

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P401139

Luminaire Tested: **ENV-SA1B-740-U-SLL-ULG**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#####)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1B-740-U-SLL-ULG  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT  
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4809 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G1

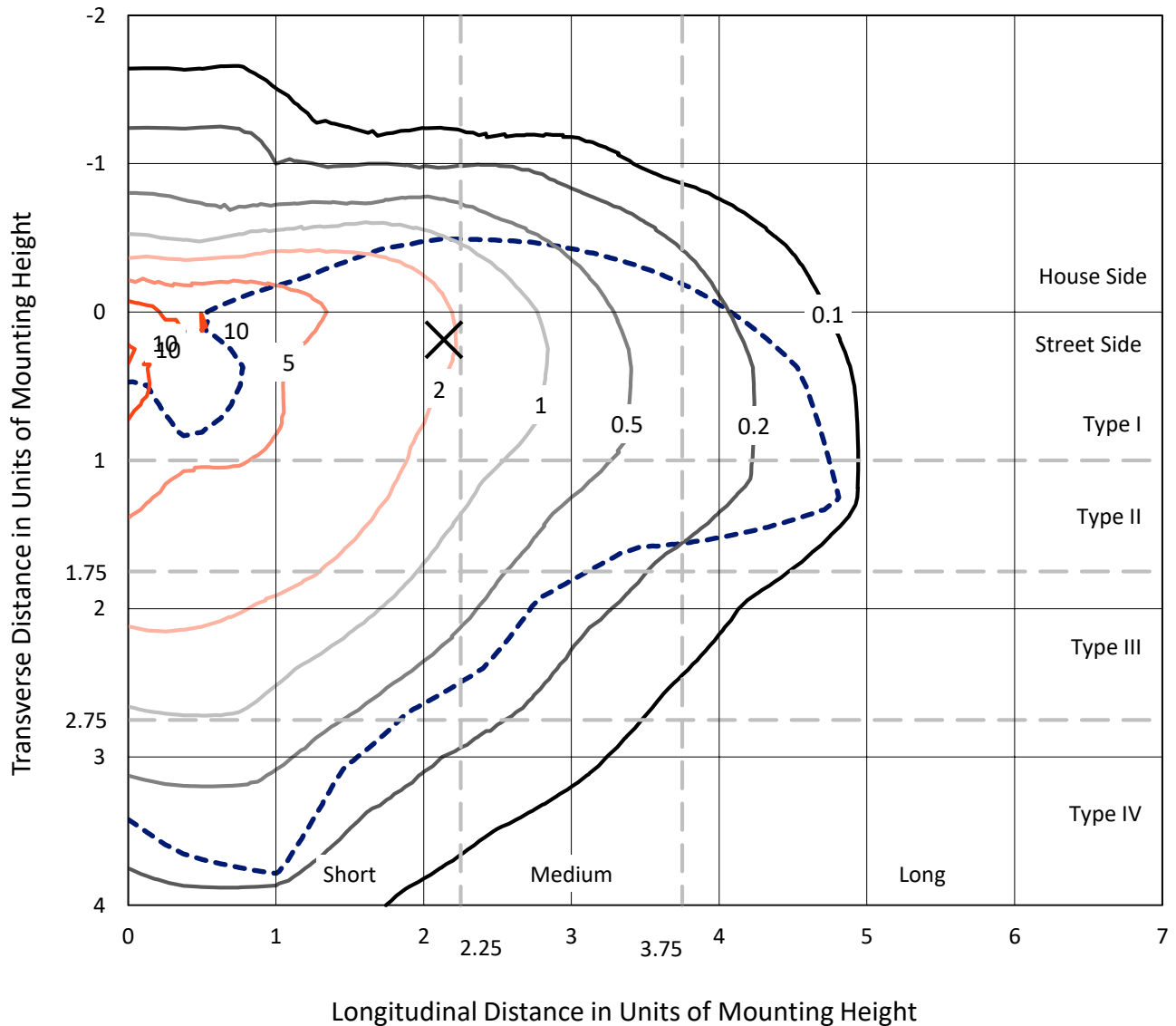
Input Watts (W): 42.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

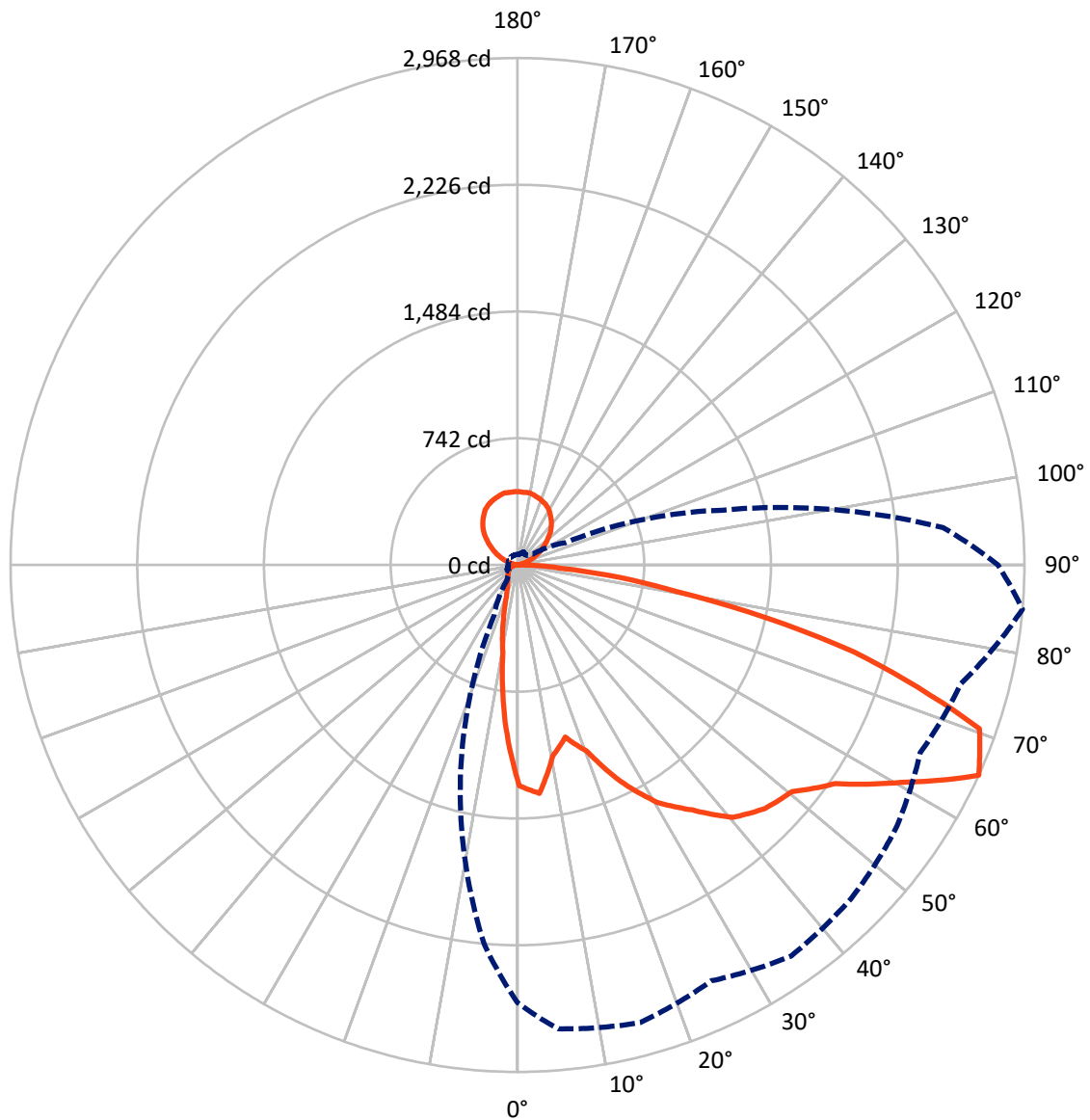


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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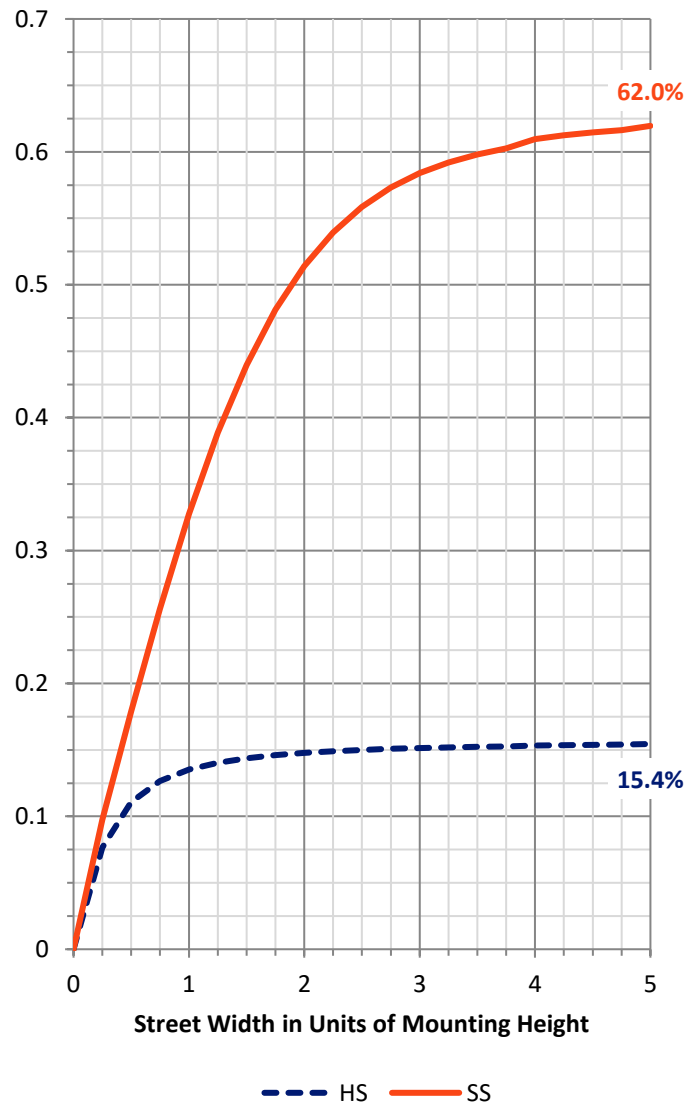
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	756.0	534.0	1290.0
	% Fixture	15.7	11.1	26.8
<b>Street Side</b>	Lumens	2984.9	534.0	3519.0
	% Fixture	62.1	11.1	73.2
<b>Total</b>	Lumens	3740.9	1068.1	4809.0
	% Fixture	77.8	22.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.6	2.1
10°-20°	195.9	4.1
20°-30°	271.7	5.6
30°-40°	382.0	7.9
40°-50°	529.2	11.0
50°-60°	742.5	15.4
60°-70°	898.0	18.7
70°-80°	535.7	11.1
80°-90°	86.3	1.8
90°-100°	5.2	0.1
100°-110°	36.1	0.8
110°-120°	102.6	2.1
120°-130°	168.1	3.5
130°-140°	207.2	4.3
140°-150°	211.8	4.4
150°-160°	178.6	3.7
160°-170°	117.6	2.4
170°-180°	40.8	0.8
0°-90°	3740.9	77.8
0°-180°	4809.0	100.0



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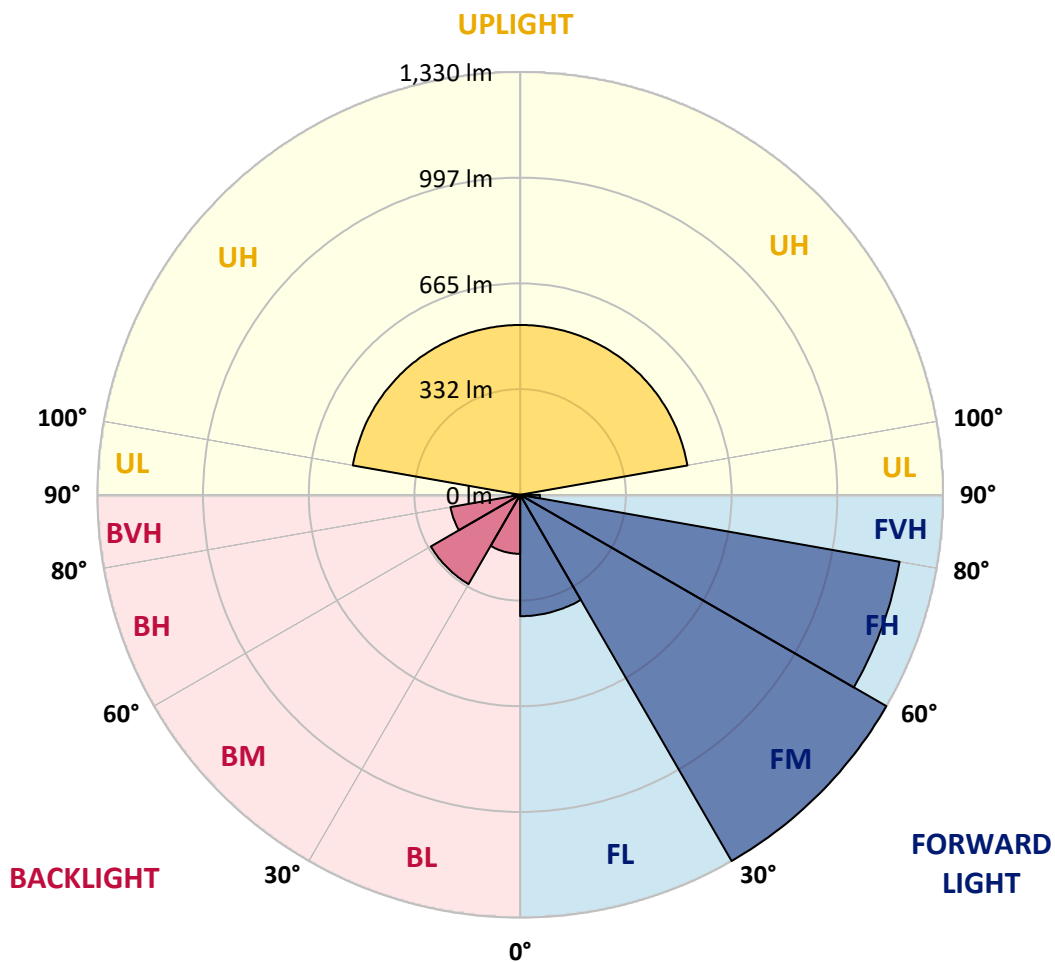
CATALOG NUMBER: ENV-SA1B-740-U-SLL-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.7	7.9			
FM (30°-60°)	1329.6	27.6			
FH (60°-80°)	1211.5	25.2			G1/1800
FVH (80°-90°)	62.1	1.3			G1/100
BL (0°-30°)	185.5	3.9	B1/500		
BM (30°-60°)	324.1	6.7	B1/1000		
BH (60°-80°)	222.2	4.6	B1/500		G1/500
BVH (80°-90°)	24.2	0.5			G1/100
UL (90°-100°)	5.2	0.1		U1/10	
UH (100°-180°)	534.0	11.1		U4/1000	

**BUG Rating: B1-U5-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3
5°	1268.9	1304.9	1338.3	1371.7	1400.9	1430.0	1451.1	1472.1	1478.1	1484.1	1475.7
10°	1072.2	1136.0	1192.5	1249.0	1298.9	1348.8	1383.1	1417.4	1431.5	1445.7	1433.9
15°	1027.1	1090.3	1133.6	1176.8	1206.9	1237.0	1248.7	1260.4	1260.7	1261.0	1264.3
20°	1206.9	1262.8	1258.3	1253.8	1211.7	1169.6	1148.6	1127.5	1120.0	1112.5	1123.0
25°	1457.7	1509.4	1459.8	1410.2	1293.5	1176.8	1118.5	1060.2	1054.5	1048.8	1059.6
30°	1663.3	1679.0	1598.1	1517.2	1378.6	1240.0	1158.8	1077.6	1062.9	1048.2	1068.9
35°	1840.7	1805.3	1695.2	1585.2	1444.4	1303.7	1213.2	1122.7	1105.3	1087.8	1129.6
40°	2074.7	1955.0	1796.2	1637.5	1504.0	1370.5	1305.8	1241.2	1234.9	1228.6	1270.1
45°	2234.0	2061.4	1863.0	1664.5	1593.6	1522.6	1530.7	1538.9	1549.4	1559.9	1591.8
50°	2317.0	2099.9	1928.2	1756.6	1796.8	1837.1	1906.3	1975.4	2010.0	2044.6	2028.4
55°	2534.7	2327.8	2167.0	2006.1	2093.3	2180.5	2290.6	2400.6	2409.0	2417.4	2391.3
60°	2760.2	2703.1	2549.4	2395.8	2453.8	2511.9	2609.9	2707.9	2708.8	2709.7	2663.7
65°	2562.4	2725.9	2749.7	2773.4	2729.5	2685.6	2739.5	2793.3	2777.3	2761.4	2731.0
70°	2254.5	2415.0	2577.1	2739.2	2485.1	2231.0	2172.4	2113.8	2107.4	2101.1	2089.1
75°	1180.5	1392.7	1498.0	1603.2	1385.2	1167.2	1112.5	1057.8	1131.7	1205.7	1199.1
80°	376.4	421.5	485.0	548.4	482.9	417.3	454.6	491.9	530.1	568.3	613.4
85°	0.6	0.6	0.9	1.2	1.5	1.8	2.4	3.0	7.8	12.6	59.5
90°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	3.1	3.1	3.4	3.7	4.0	4.3	4.3	4.3	4.3	4.3	4.3
100°	4.9	4.9	5.2	5.5	5.8	6.1	6.8	7.4	10.2	12.9	15.4
105°	12.9	13.5	15.1	16.6	19.4	22.1	25.9	29.5	34.2	38.7	41.6
110°	40.6	41.9	43.7	45.5	49.6	53.5	58.2	62.7	66.4	70.1	72.0
115°	86.1	85.5	88.0	90.4	94.1	97.8	100.6	103.4	105.2	107.0	108.6
120°	138.4	137.2	138.1	139.0	141.2	143.3	144.6	145.8	147.6	149.5	150.4
125°	183.3	180.8	181.5	182.1	183.1	184.0	185.8	187.6	189.2	190.7	191.7
130°	223.3	222.1	222.4	222.7	223.9	225.1	226.4	227.6	228.2	228.8	230.4
135°	263.9	262.1	262.1	262.1	263.9	265.7	266.7	267.6	268.2	268.8	270.7
140°	300.2	298.3	299.0	299.6	300.2	300.8	301.5	302.1	303.9	305.7	306.7
145°	338.3	335.9	335.3	334.7	335.6	336.5	337.4	338.3	338.6	338.9	340.5
150°	366.0	364.2	364.5	364.8	364.8	364.8	364.8	364.8	364.8	364.8	366.0
155°	386.9	384.4	384.4	384.4	385.1	385.7	386.7	387.6	387.0	386.3	385.7
160°	407.8	406.0	405.7	405.4	404.5	403.6	403.3	402.9	402.9	402.9	403.9
165°	418.9	417.1	416.5	415.8	415.8	415.8	414.9	414.0	414.0	414.0	413.7
170°	429.4	427.6	426.7	425.7	425.7	425.7	426.0	426.3	425.7	425.1	423.5
175°	430.6	429.4	429.1	428.8	428.2	427.6	426.4	425.1	424.8	424.4	424.4
180°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3
5°	1467.3	1456.8	1446.3	1424.0	1401.8	1372.3	1342.8	1314.6	1283.9	1260.4	1237.0
10°	1422.2	1393.9	1365.7	1308.2	1250.8	1193.4	1136.0	1086.0	1034.3	989.2	944.1
15°	1267.7	1260.7	1253.8	1211.4	1169.0	1107.4	1045.8	984.4	921.3	858.4	795.6
20°	1133.6	1170.8	1208.1	1221.0	1234.0	1199.4	1164.8	1095.1	1001.9	906.8	811.8
25°	1070.4	1142.6	1214.7	1298.3	1381.9	1392.7	1403.6	1324.2	1194.3	1034.3	874.4
30°	1089.7	1168.1	1246.6	1357.6	1468.5	1540.4	1612.2	1555.1	1389.7	1174.4	959.2
35°	1171.4	1245.1	1318.8	1424.9	1531.0	1646.2	1761.4	1716.9	1517.8	1273.1	1028.3
40°	1311.6	1379.8	1448.1	1538.9	1629.7	1786.3	1943.0	1954.4	1677.2	1365.1	1053.0
45°	1623.7	1611.0	1598.4	1645.0	1691.6	1862.4	2033.2	2099.3	1828.1	1447.5	1066.8
50°	2012.1	1916.8	1821.5	1761.7	1701.8	1893.1	2084.3	2186.5	1967.6	1526.8	1086.0
55°	2365.1	2213.9	2062.6	1958.6	1854.6	2056.9	2259.3	2426.5	2262.3	1723.8	1185.3
60°	2617.7	2480.3	2342.9	2247.6	2152.2	2367.5	2582.8	2740.4	2627.3	1965.2	1303.1
65°	2700.7	2650.8	2600.9	2643.8	2686.8	2827.3	2967.7	2813.1	2501.6	1869.9	1238.2
70°	2077.1	2159.2	2241.2	2561.5	2881.7	2875.4	2869.1	2573.2	2023.0	1448.1	873.2
75°	1192.5	1332.3	1472.1	1850.7	2229.2	2132.1	2035.0	1675.4	1318.8	907.7	496.7
80°	658.5	675.6	692.8	935.4	1178.1	1063.2	948.3	781.8	670.5	441.1	211.7
85°	106.4	123.6	140.7	232.7	324.7	295.9	267.0	227.3	303.1	178.9	54.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	4.3	4.6	4.9	4.6	4.3	4.3	4.3	4.3	4.3	4.3	4.3
100°	17.9	16.9	16.0	15.1	14.1	12.9	11.7	11.7	11.7	12.9	14.1
105°	44.3	43.7	43.1	41.5	40.0	38.7	37.5	37.5	37.5	38.8	40.0
110°	73.8	74.1	74.4	73.8	73.2	72.3	71.4	72.0	71.4	72.3	73.2
115°	110.1	111.0	112.0	111.0	110.1	109.5	108.9	109.5	108.9	109.5	110.1
120°	151.3	152.6	153.8	152.3	150.7	150.1	149.5	149.5	149.5	150.1	150.7
125°	192.6	193.2	193.8	192.3	190.7	190.7	190.7	190.7	190.7	190.7	190.7
130°	231.9	233.1	234.3	234.3	234.3	233.7	233.1	233.7	233.1	233.7	234.3
135°	272.5	274.0	275.6	275.3	275.0	275.9	276.8	277.5	276.8	275.9	275.0
140°	307.6	308.2	308.8	309.4	310.1	311.6	313.1	314.3	313.1	311.6	310.1
145°	342.0	343.9	345.7	345.4	345.1	344.2	343.3	344.5	343.3	344.2	345.1
150°	367.2	368.1	369.1	370.0	370.9	371.9	372.8	375.2	372.8	371.9	370.9
155°	385.1	386.6	388.2	389.7	391.2	391.8	392.4	394.3	392.4	391.8	391.2
160°	404.8	406.6	408.4	407.5	406.6	406.3	406.0	409.7	406.0	406.3	406.6
165°	413.4	414.9	416.4	417.4	418.3	417.7	417.1	419.6	417.1	417.7	418.3
170°	422.0	422.9	423.8	425.4	426.9	427.6	428.2	431.2	428.2	427.6	426.9
175°	424.4	426.0	427.6	427.9	428.2	427.6	426.9	430.0	426.9	427.6	428.2
180°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6





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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3
5°	1209.9	1182.9	1157.0	1131.1	1108.0	1084.8	1080.3	1075.8	1062.3	1048.8	1044.9
10°	897.2	850.3	809.7	769.1	739.7	710.2	684.3	658.5	645.3	632.0	613.7
15°	740.9	686.1	656.1	626.0	605.3	584.5	561.4	538.2	514.5	490.7	465.7
20°	728.5	645.3	595.6	546.0	504.8	463.6	423.1	382.5	353.6	324.7	294.7
25°	737.6	600.8	522.3	443.8	374.6	305.5	257.7	209.9	192.7	175.6	168.7
30°	753.2	547.2	442.9	338.6	262.5	186.4	169.0	151.5	146.1	140.7	137.4
35°	765.2	502.1	383.7	265.2	211.1	157.0	144.9	132.9	128.1	123.3	120.0
40°	761.9	470.9	358.4	246.0	191.5	137.1	129.3	121.5	116.1	110.6	107.9
45°	758.3	449.8	334.4	218.9	177.7	136.5	124.8	113.1	107.9	102.8	98.9
50°	759.2	432.4	316.6	200.9	161.2	121.5	121.5	121.5	109.4	97.4	92.3
55°	793.5	401.7	292.6	183.4	143.1	102.8	109.7	116.7	107.6	98.6	89.9
60°	835.9	368.6	255.0	141.3	115.2	89.0	90.2	91.4	92.0	92.6	83.3
65°	773.9	309.7	210.2	110.6	94.7	78.8	77.0	75.2	79.4	83.6	75.8
70°	557.5	241.7	178.0	114.3	91.7	69.2	67.4	65.5	64.6	63.7	62.2
75°	356.6	216.5	166.9	117.3	88.7	60.1	57.7	55.3	54.7	54.1	52.9
80°	174.4	137.1	108.2	79.4	63.7	48.1	45.7	43.3	43.3	43.3	42.4
85°	51.7	48.7	44.5	40.3	35.8	31.3	31.3	31.3	31.6	31.9	31.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	4.6	4.9	4.6	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.0
100°	15.1	16.0	17.0	17.9	15.4	12.9	10.2	7.4	6.8	6.1	5.8
105°	41.6	43.1	43.7	44.3	41.6	38.7	34.2	29.5	25.9	22.1	19.4
110°	73.8	74.4	74.1	73.8	72.0	70.1	66.4	62.7	58.2	53.5	49.6
115°	111.1	112.0	111.1	110.1	108.6	107.0	105.2	103.4	100.6	97.8	94.1
120°	152.3	153.8	152.6	151.3	150.4	149.5	147.6	145.8	144.6	143.3	141.2
125°	192.3	193.8	193.2	192.6	191.7	190.7	189.2	187.6	185.8	184.0	183.1
130°	234.3	234.3	233.1	231.9	230.4	228.8	228.2	227.6	226.4	225.1	223.9
135°	275.3	275.6	274.1	272.5	270.7	268.8	268.2	267.6	266.7	265.7	263.9
140°	309.5	308.8	308.2	307.6	306.7	305.7	303.9	302.1	301.5	300.8	300.2
145°	345.4	345.7	343.9	342.0	340.5	338.9	338.6	338.3	337.4	336.5	335.6
150°	370.0	369.1	368.2	367.2	366.0	364.8	364.8	364.8	364.8	364.8	364.8
155°	389.7	388.2	386.7	385.1	385.7	386.3	387.0	387.6	386.7	385.7	385.1
160°	407.5	408.4	406.6	404.8	403.9	402.9	402.9	402.9	403.3	403.6	404.5
165°	417.4	416.4	414.9	413.4	413.7	414.0	414.0	414.0	414.9	415.8	415.8
170°	425.4	423.8	422.9	422.0	423.5	425.1	425.7	426.3	426.0	425.7	425.7
175°	427.9	427.6	426.0	424.4	424.4	424.4	424.8	425.1	426.4	427.6	428.2
180°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3
5°	1040.9	1037.0	1033.1	1011.5	1016.3	1007.3	998.2	997.9	997.6	987.7	977.8
10°	595.3	582.1	568.9	565.3	565.3	571.6	577.9	587.5	597.1	606.5	615.8
15°	440.8	422.1	403.5	389.1	372.2	359.6	347.0	341.3	335.6	331.6	327.7
20°	264.6	251.4	238.1	226.1	221.3	220.1	218.9	216.5	214.1	210.5	206.9
25°	161.8	158.8	155.8	155.8	154.5	155.1	155.8	157.0	158.2	159.7	161.2
30°	134.1	133.2	132.3	132.3	132.3	132.3	132.3	133.5	134.7	136.5	138.3
35°	116.7	115.2	113.7	113.7	114.3	115.5	116.7	117.6	118.5	118.8	119.1
40°	105.2	103.1	101.0	101.0	100.4	100.4	100.4	101.6	102.8	104.0	105.2
45°	95.0	93.2	91.4	90.8	90.2	89.9	89.6	88.7	87.8	88.7	89.6
50°	87.2	85.1	83.0	82.4	81.2	80.6	80.0	79.1	78.2	77.9	77.6
55°	81.2	79.1	77.0	75.2	74.0	73.4	72.8	72.2	71.6	71.0	70.4
60°	74.0	71.9	69.8	69.2	68.0	67.4	66.8	66.4	66.1	65.5	64.9
65°	68.0	65.2	62.5	61.9	61.3	61.0	60.7	60.4	60.1	59.8	59.5
70°	60.7	58.6	56.5	55.3	54.7	54.7	54.7	54.1	53.5	53.2	52.9
75°	51.7	49.9	48.1	47.5	47.5	47.2	46.9	46.6	46.3	46.0	45.7
80°	41.5	39.7	37.9	37.9	37.9	37.6	37.3	37.0	36.7	37.3	37.9
85°	30.1	28.6	27.1	26.5	26.5	27.1	27.7	27.1	26.5	27.1	27.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	3.7	3.4	3.1	3.1	3.1	3.4	3.7	4.0	4.3	4.3	4.3
100°	5.5	5.2	4.9	4.9	4.9	5.2	5.5	5.8	6.1	6.8	7.4
105°	16.6	15.1	13.5	12.9	13.5	15.1	16.6	19.4	22.1	25.9	29.5
110°	45.5	43.7	41.9	40.6	41.9	43.7	45.5	49.6	53.5	58.2	62.7
115°	90.4	88.0	85.5	86.1	85.5	88.0	90.4	94.1	97.8	100.6	103.4
120°	139.0	138.1	137.2	138.4	137.2	138.1	139.0	141.2	143.3	144.6	145.8
125°	182.1	181.5	180.8	183.3	180.8	181.5	182.1	183.1	184.0	185.8	187.6
130°	222.7	222.4	222.1	223.3	222.1	222.4	222.7	223.9	225.1	226.4	227.6
135°	262.1	262.1	262.1	263.9	262.1	262.1	262.1	263.9	265.7	266.7	267.6
140°	299.6	299.0	298.3	300.2	298.3	299.0	299.6	300.2	300.8	301.5	302.1
145°	334.7	335.3	335.9	338.3	335.9	335.3	334.7	335.6	336.5	337.4	338.3
150°	364.8	364.5	364.2	366.0	364.2	364.5	364.8	364.8	364.8	364.8	364.8
155°	384.4	384.4	384.4	386.9	384.4	384.4	384.4	385.1	385.7	386.7	387.6
160°	405.4	405.7	406.0	407.8	406.0	405.7	405.4	404.5	403.6	403.3	402.9
165°	415.8	416.5	417.1	418.9	417.1	416.5	415.8	415.8	415.8	414.9	414.0
170°	425.7	426.7	427.6	429.4	427.6	426.7	425.7	425.7	425.7	426.0	426.3
175°	428.8	429.1	429.4	430.6	429.4	429.1	428.8	428.2	427.6	426.4	425.1
180°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3
5°	966.7	955.5	952.8	950.1	940.5	930.9	927.3	923.7	922.2	920.7	914.1
10°	608.6	601.4	582.4	563.5	554.7	546.0	533.4	520.8	519.3	517.8	516.0
15°	329.5	331.3	326.5	321.7	323.5	325.3	323.5	321.7	323.8	325.9	330.1
20°	207.5	208.1	206.6	205.1	204.2	203.3	198.1	193.0	190.9	188.8	191.8
25°	162.1	163.0	159.4	155.8	150.6	145.5	142.8	140.1	139.8	139.5	140.7
30°	139.2	140.1	136.2	132.3	128.7	125.1	122.7	120.3	118.8	117.3	115.5
35°	120.3	121.5	118.8	116.1	113.1	110.0	106.7	103.4	101.0	98.6	96.8
40°	106.4	107.6	104.3	101.0	97.1	93.2	91.4	89.6	88.7	87.8	86.6
45°	92.6	95.6	90.5	85.4	83.3	81.2	80.3	79.4	79.1	78.8	78.8
50°	78.2	78.8	77.0	75.2	73.7	72.2	71.6	71.0	71.0	71.0	71.0
55°	71.0	71.6	70.1	68.6	67.4	66.1	65.5	64.9	64.9	64.9	66.1
60°	65.8	66.8	65.2	63.7	62.5	61.3	61.0	60.7	60.7	60.7	60.1
65°	60.1	60.7	59.2	57.7	56.8	55.9	55.6	55.3	54.7	54.1	53.5
70°	54.1	55.3	52.9	50.5	49.9	49.3	49.0	48.7	48.1	47.5	46.9
75°	47.5	49.3	46.3	43.3	42.4	41.5	40.9	40.3	39.4	38.5	37.9
80°	37.9	37.9	35.8	33.7	32.2	30.7	30.1	29.5	28.6	27.7	26.5
85°	25.6	23.5	23.5	23.5	20.7	18.0	15.9	13.8	11.7	9.6	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	4.3	4.3	4.3	4.3	4.6	4.9	4.6	4.3	4.3	4.3	4.3
100°	10.2	12.9	15.4	17.9	17.0	16.0	15.1	14.1	12.9	11.7	11.7
105°	34.2	38.7	41.6	44.3	43.7	43.1	41.6	40.0	38.8	37.5	37.5
110°	66.4	70.1	72.0	73.8	74.1	74.4	73.8	73.2	72.3	71.4	72.0
115°	105.2	107.0	108.6	110.1	111.1	112.0	111.1	110.1	109.5	108.9	109.5
120°	147.6	149.5	150.4	151.3	152.6	153.8	152.3	150.7	150.1	149.5	149.5
125°	189.2	190.7	191.7	192.6	193.2	193.8	192.3	190.7	190.7	190.7	190.7
130°	228.2	228.8	230.4	231.9	233.1	234.3	234.3	234.3	233.7	233.1	233.7
135°	268.2	268.8	270.7	272.5	274.1	275.6	275.3	275.0	275.9	276.8	277.5
140°	303.9	305.7	306.7	307.6	308.2	308.8	309.5	310.1	311.6	313.1	314.3
145°	338.6	338.9	340.5	342.0	343.9	345.7	345.4	345.1	344.2	343.3	344.5
150°	364.8	364.8	366.0	367.2	368.2	369.1	370.0	370.9	371.9	372.8	375.2
155°	387.0	386.3	385.7	385.1	386.7	388.2	389.7	391.2	391.8	392.4	394.3
160°	402.9	402.9	403.9	404.8	406.6	408.4	407.5	406.6	406.3	406.0	409.7
165°	414.0	414.0	413.7	413.4	414.9	416.4	417.4	418.3	417.7	417.1	419.6
170°	425.7	425.1	423.5	422.0	422.9	423.8	425.4	426.9	427.6	428.2	431.2
175°	424.8	424.4	424.4	424.4	426.0	427.6	427.9	428.2	427.6	426.9	430.0
180°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6

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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	0°
5°	938.1	932.4	926.7	938.1	949.5	960.1	970.6	996.4	1022.3	1035.5	1048.8	5°
10°	528.0	542.1	556.3	571.9	587.5	611.9	636.2	661.5	686.7	714.7	742.7	10°
15°	344.6	365.0	385.5	413.4	441.4	470.6	499.7	528.6	557.5	585.1	612.8	15°
20°	201.5	209.6	217.7	239.9	262.2	292.3	322.3	365.3	408.3	456.1	503.9	20°
25°	140.7	142.5	144.3	148.5	152.7	166.9	181.0	221.9	262.8	332.2	401.7	25°
30°	114.9	115.2	115.5	118.5	121.5	127.5	133.5	155.1	176.8	252.0	327.1	30°
35°	96.8	98.0	99.2	102.2	105.2	110.6	116.1	130.5	144.9	206.6	268.2	35°
40°	87.2	88.1	89.0	91.4	93.8	98.3	102.8	111.3	119.7	171.1	222.5	40°
45°	78.8	80.0	81.2	84.2	87.2	91.7	96.2	107.0	117.9	147.0	176.2	45°
50°	72.2	73.7	75.2	79.7	84.2	96.2	108.2	107.0	105.8	138.6	171.4	50°
55°	67.4	68.9	70.4	77.9	85.4	90.5	95.6	91.1	86.6	125.4	164.2	55°
60°	60.1	62.5	64.9	76.4	87.8	81.2	74.6	74.6	74.6	100.4	126.3	60°
65°	54.1	56.2	58.3	63.1	68.0	64.6	61.3	62.8	64.3	85.1	105.8	65°
70°	46.9	48.1	49.3	49.6	49.9	50.5	51.1	53.8	56.5	76.4	96.2	70°
75°	37.3	38.2	39.1	39.4	39.7	39.4	39.1	41.8	44.5	61.6	78.8	75°
80°	25.9	26.5	27.1	25.9	24.7	22.6	20.4	20.7	21.0	25.3	29.5	80°
85°	7.2	5.4	3.6	2.4	1.2	0.6	0.0	0.0	0.0	0.0	0.0	85°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°
95°	4.3	4.3	4.3	4.6	4.9	4.6	4.3	4.3	4.3	4.3	4.3	95°
100°	11.7	12.9	14.1	15.1	16.0	16.9	17.9	15.4	12.9	10.2	7.4	100°
105°	37.5	38.7	40.0	41.5	43.1	43.7	44.3	41.6	38.7	34.2	29.5	105°
110°	71.4	72.3	73.2	73.8	74.4	74.1	73.8	72.0	70.1	66.4	62.7	110°
115°	108.9	109.5	110.1	111.0	112.0	111.0	110.1	108.6	107.0	105.2	103.4	115°
120°	149.5	150.1	150.7	152.3	153.8	152.6	151.3	150.4	149.5	147.6	145.8	120°
125°	190.7	190.7	190.7	192.3	193.8	193.2	192.6	191.7	190.7	189.2	187.6	125°
130°	233.1	233.7	234.3	234.3	234.3	233.1	231.9	230.4	228.8	228.2	227.6	130°
135°	276.8	275.9	275.0	275.3	275.6	274.0	272.5	270.7	268.8	268.2	267.6	135°
140°	313.1	311.6	310.1	309.4	308.8	308.2	307.6	306.7	305.7	303.9	302.1	140°
145°	343.3	344.2	345.1	345.4	345.7	343.9	342.0	340.5	338.9	338.6	338.3	145°
150°	372.8	371.9	370.9	370.0	369.1	368.1	367.2	366.0	364.8	364.8	364.8	150°
155°	392.4	391.8	391.2	389.7	388.2	386.6	385.1	385.7	386.3	387.0	387.6	155°
160°	406.0	406.3	406.6	407.5	408.4	406.6	404.8	403.9	402.9	402.9	402.9	160°
165°	417.1	417.7	418.3	417.4	416.4	414.9	413.4	413.7	414.0	414.0	414.0	165°
170°	428.2	427.6	426.9	425.4	423.8	422.9	422.0	423.5	425.1	425.7	426.3	170°
175°	426.9	427.6	428.2	427.9	427.6	426.0	424.4	424.4	424.4	424.8	425.1	175°
180°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	180°



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**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3
1079.7	1110.7	1133.2	1155.8	1191.9	1228.0	1268.9
789.3	835.9	878.6	921.3	965.8	1010.3	1072.2
651.6	690.4	747.2	804.0	877.1	950.1	1027.1
565.9	627.8	727.9	828.1	953.1	1078.2	1206.9
490.7	579.7	734.6	889.4	1088.7	1288.1	1457.7
424.9	522.6	745.7	968.8	1235.8	1502.8	1663.3
374.0	479.9	738.5	997.0	1325.4	1653.7	1840.7
327.4	432.4	725.8	1019.3	1433.6	1848.0	2074.7
284.1	392.1	707.8	1023.5	1509.7	1995.9	2234.0
269.1	366.8	711.1	1055.4	1596.9	2138.4	2317.0
264.6	365.0	764.0	1163.0	1795.9	2428.9	2534.7
244.4	362.6	835.9	1309.1	1937.6	2566.0	2760.2
214.4	322.9	807.3	1291.7	1761.1	2230.4	2562.4
168.7	241.1	586.0	930.9	1369.0	1807.1	2254.5
117.3	155.8	273.6	391.5	648.6	905.6	1180.5
43.0	56.5	76.1	95.6	205.7	315.7	376.4
0.0	0.0	0.0	0.0	0.0	0.0	0.6
0.0	0.0	0.0	0.0	0.0	0.0	0.1
4.3	4.3	4.0	3.7	3.4	3.1	3.1
6.8	6.1	5.8	5.5	5.2	4.9	4.9
25.9	22.1	19.4	16.6	15.1	13.5	12.9
58.2	53.5	49.6	45.5	43.7	41.9	40.6
100.6	97.8	94.1	90.4	88.0	85.5	86.1
144.6	143.3	141.2	139.0	138.1	137.2	138.4
185.8	184.0	183.1	182.1	181.5	180.8	183.3
226.4	225.1	223.9	222.7	222.4	222.1	223.3
266.7	265.7	263.9	262.1	262.1	262.1	263.9
301.5	300.8	300.2	299.6	299.0	298.3	300.2
337.4	336.5	335.6	334.7	335.3	335.9	338.3
364.8	364.8	364.8	364.8	364.5	364.2	366.0
386.7	385.7	385.1	384.4	384.4	384.4	386.9
403.3	403.6	404.5	405.4	405.7	406.0	407.8
414.9	415.8	415.8	415.8	416.5	417.1	418.9
426.0	425.7	425.7	425.7	426.7	427.6	429.4
426.4	427.6	428.2	428.8	429.1	429.4	430.6
430.6	430.6	430.6	430.6	430.6	430.6	430.6

(END OF REPORT)