

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: P401137

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

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401137
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-HSS-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4355 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - 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

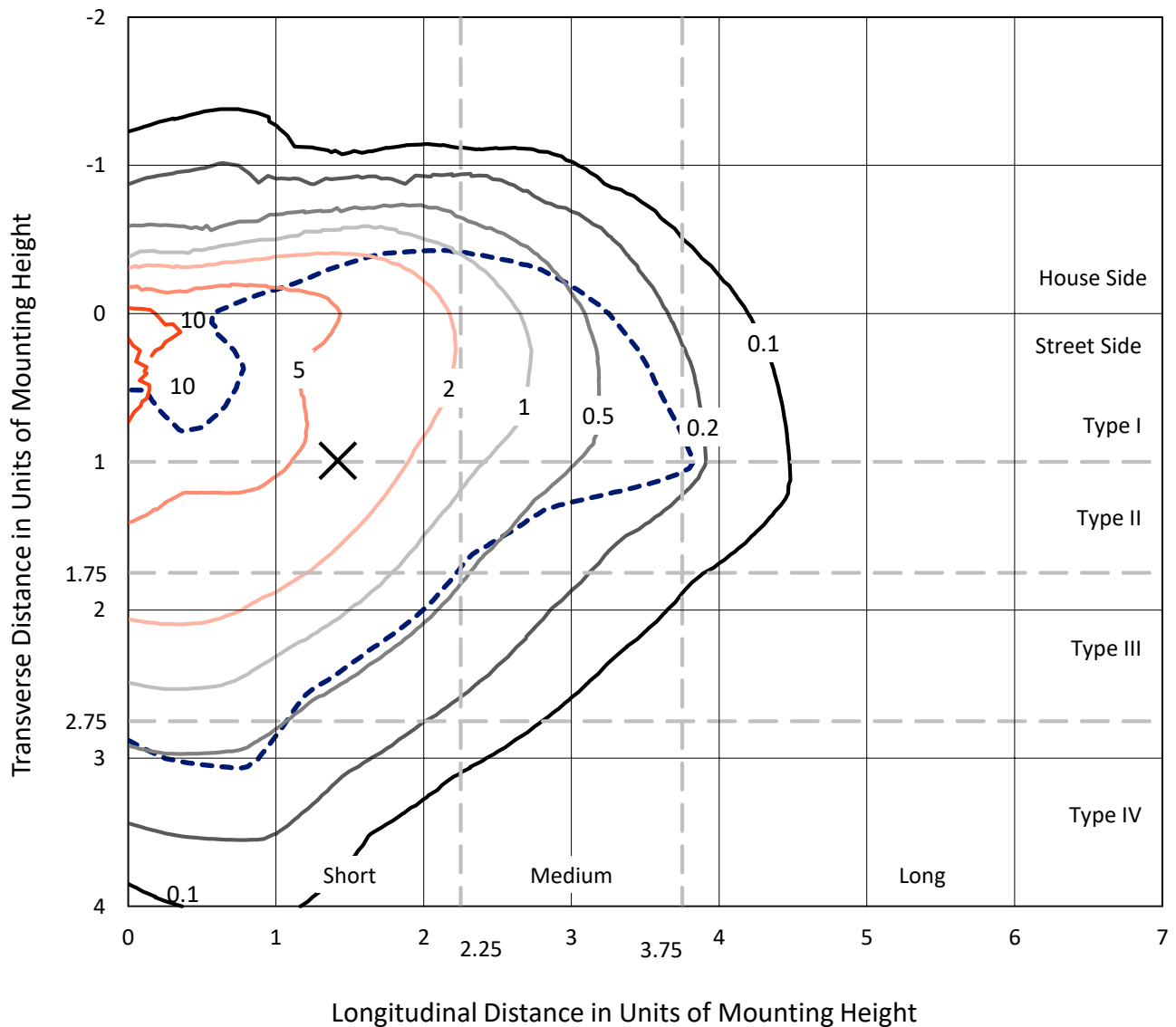


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

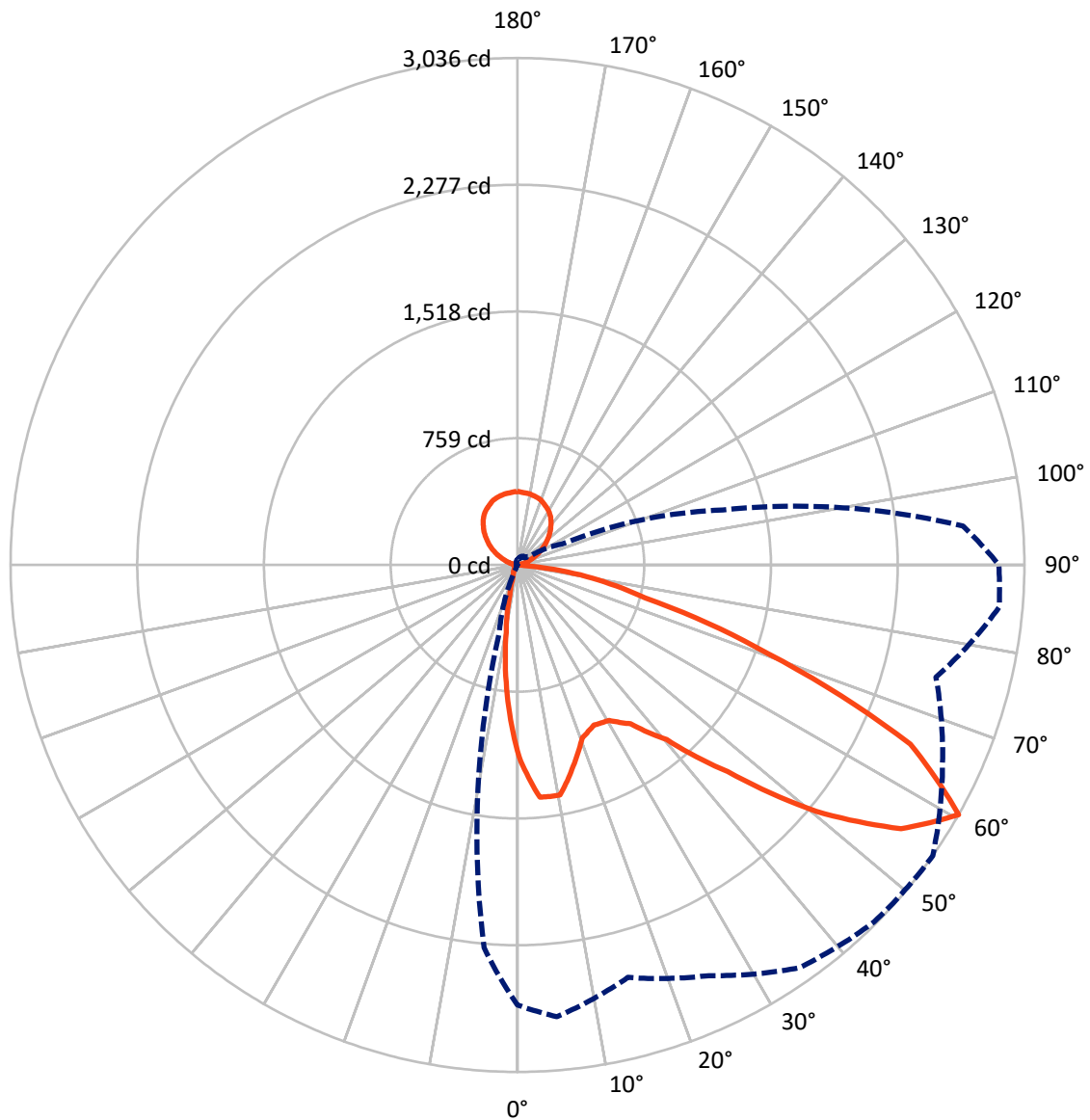


Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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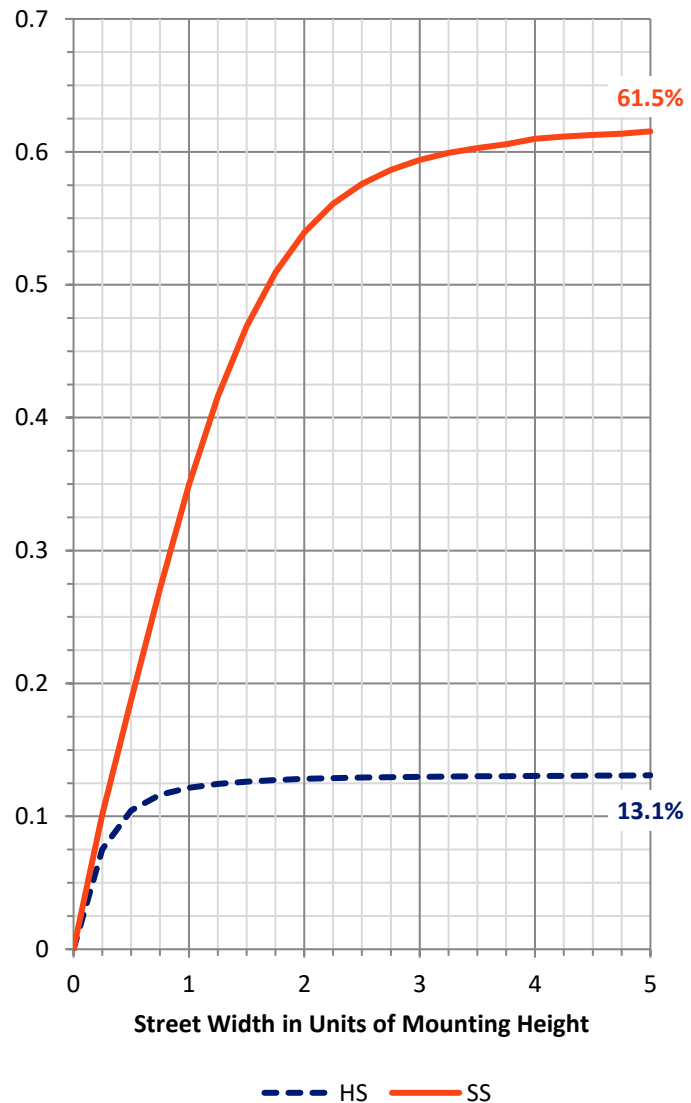
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	578.8	547.0	1125.8
	% Fixture	13.3	12.6	25.9
Street Side	Lumens	2682.1	547.0	3229.2
	% Fixture	61.6	12.6	74.1
Total	Lumens	3260.9	1094.0	4355.0
	% Fixture	74.9	25.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	2.0
10°-20°	166.9	3.8
20°-30°	235.5	5.4
30°-40°	345.0	7.9
40°-50°	508.5	11.7
50°-60°	749.4	17.2
60°-70°	792.9	18.2
70°-80°	340.1	7.8
80°-90°	34.7	0.8
90°-100°	5.3	0.1
100°-110°	37.0	0.8
110°-120°	105.1	2.4
120°-130°	172.2	4.0
130°-140°	212.2	4.9
140°-150°	217.0	5.0
150°-160°	183.0	4.2
160°-170°	120.5	2.8
170°-180°	41.8	1.0
0°-90°	3260.9	74.9
0°-180°	4355.0	100.0



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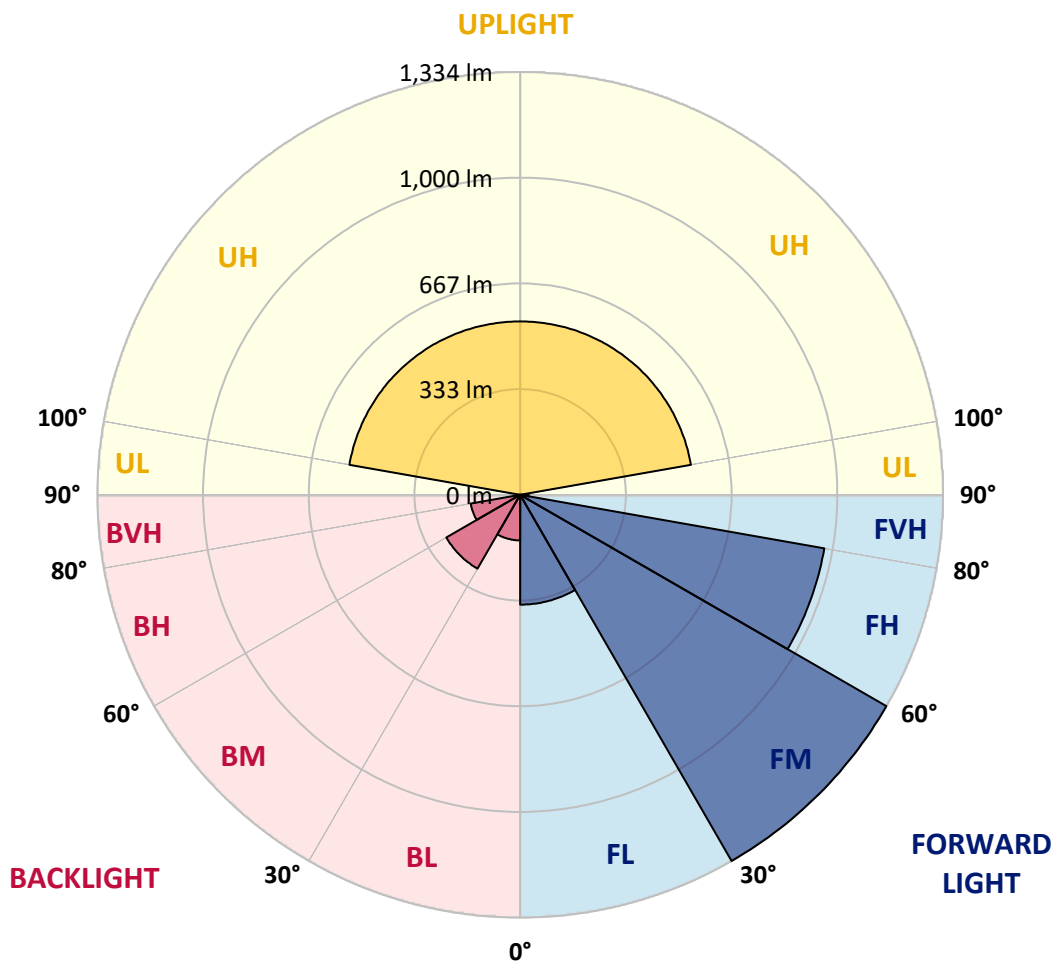
CATALOG NUMBER: ENV-SA1B-740-U-SLL-HSS-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	346.5	8.0			
FM	(30°-60°)	1334.0	30.6			
FH	(60°-80°)	974.4	22.4			G1/1800
FVH	(80°-90°)	27.2	0.6			G1/100
BL	(0°-30°)	143.8	3.3	B1/500		
BM	(30°-60°)	269.0	6.2	B1/1000		
BH	(60°-80°)	158.5	3.6	B1/500		G1/500
BVH	(80°-90°)	7.5	0.2			G0/10
UL	(90°-100°)	5.3	0.1		U1/10	
UH	(100°-180°)	547.0	12.6		U4/1000	

BUG Rating: B1-U5-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6
5°	1166.7	1199.3	1238.4	1277.5	1309.6	1341.6	1365.6	1389.6	1401.4	1413.1	1405.0
10°	989.9	1057.6	1120.2	1182.7	1242.1	1301.6	1347.1	1392.7	1408.4	1424.1	1412.7
15°	946.8	1029.9	1081.4	1132.8	1168.8	1204.9	1219.6	1234.4	1237.8	1241.2	1245.5
20°	1122.9	1212.2	1212.9	1213.5	1175.0	1136.5	1114.9	1093.4	1087.8	1082.3	1094.0
25°	1423.5	1482.0	1445.4	1408.7	1291.7	1174.7	1111.5	1048.4	1044.1	1039.8	1050.9
30°	1629.9	1653.9	1588.6	1523.3	1383.2	1243.0	1155.0	1066.9	1053.9	1041.0	1060.4
35°	1839.9	1809.1	1713.7	1618.2	1473.4	1328.7	1229.5	1130.3	1106.3	1082.3	1125.1
40°	2103.0	2002.5	1862.7	1722.9	1583.4	1443.9	1372.4	1300.9	1299.4	1297.9	1336.4
45°	2317.3	2170.7	1993.6	1816.5	1750.3	1684.1	1690.6	1697.0	1732.1	1767.2	1765.7
50°	2410.3	2253.3	2121.7	1990.2	2041.7	2093.1	2193.8	2294.5	2347.8	2401.1	2360.4
55°	2598.2	2481.2	2356.1	2231.1	2330.2	2429.4	2595.1	2760.8	2814.7	2868.6	2828.3
60°	2635.2	2715.2	2635.8	2556.3	2634.5	2712.8	2828.3	2943.8	2982.6	3021.4	3028.5
65°	2348.7	2480.5	2608.1	2735.6	2670.3	2605.0	2598.2	2591.4	2569.9	2548.3	2566.8
70°	1676.7	1848.6	1910.8	1973.0	1787.9	1602.8	1582.8	1562.7	1579.4	1596.0	1593.8
75°	667.7	827.3	943.1	1058.9	872.8	686.8	660.6	634.5	672.0	709.6	750.0
80°	193.4	232.8	247.9	263.0	247.9	232.8	269.8	306.8	331.4	356.0	387.5
85°	0.0	0.6	0.9	1.2	1.5	1.8	1.8	1.8	2.5	3.1	18.8
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	3.8	4.1	4.4	4.4	4.4	4.4	4.4	4.4
100°	5.1	5.1	5.4	5.7	6.0	6.3	7.0	7.6	10.4	13.2	15.8
105°	13.2	13.9	15.5	17.0	19.8	22.7	26.5	30.2	35.0	39.7	42.6
110°	41.6	42.9	44.8	46.6	50.8	54.8	59.6	64.2	68.1	71.8	73.7
115°	88.2	87.6	90.1	92.6	96.4	100.2	103.1	105.9	107.8	109.6	111.2
120°	141.8	140.5	141.5	142.4	144.6	146.8	148.1	149.3	151.2	153.1	154.1
125°	187.8	185.2	185.9	186.5	187.5	188.4	190.3	192.2	193.8	195.3	196.3
130°	228.7	227.5	227.8	228.1	229.4	230.6	231.9	233.1	233.8	234.4	236.0
135°	270.3	268.4	268.4	268.4	270.4	272.2	273.2	274.1	274.7	275.3	277.3
140°	307.5	305.6	306.3	306.9	307.5	308.1	308.8	309.4	311.3	313.2	314.1
145°	346.5	344.0	343.4	342.8	343.8	344.7	345.6	346.5	346.9	347.2	348.8
150°	374.9	373.0	373.3	373.7	373.7	373.7	373.7	373.7	373.7	373.7	374.9
155°	396.3	393.8	393.8	393.8	394.5	395.1	396.1	397.0	396.4	395.7	395.1
160°	417.8	415.8	415.5	415.2	414.3	413.4	413.1	412.7	412.7	412.7	413.7
165°	429.1	427.2	426.6	425.9	425.9	425.9	425.0	424.0	424.0	424.0	423.7
170°	439.8	438.0	437.0	436.1	436.1	436.1	436.4	436.7	436.1	435.4	433.8
175°	441.1	439.8	439.5	439.2	438.6	438.0	436.7	435.4	435.1	434.8	434.8
180°	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0



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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6
5°	1397.0	1384.7	1372.4	1348.1	1323.7	1294.2	1264.6	1235.0	1207.3	1178.7	1150.0
10°	1401.4	1363.2	1325.0	1261.5	1198.1	1135.9	1073.7	1020.1	964.6	915.7	866.7
15°	1249.8	1238.4	1227.0	1174.1	1121.1	1056.1	991.1	924.6	855.6	790.3	725.0
20°	1105.7	1142.3	1179.0	1183.6	1188.2	1154.3	1120.5	1039.2	932.0	833.4	734.9
25°	1061.9	1131.9	1201.8	1276.3	1350.8	1359.5	1368.1	1292.3	1156.2	979.7	803.2
30°	1079.8	1157.4	1235.0	1340.7	1446.3	1517.8	1589.2	1533.8	1371.2	1134.9	898.7
35°	1167.9	1238.7	1309.6	1420.4	1531.3	1638.8	1746.3	1713.7	1514.7	1236.0	957.2
40°	1374.9	1423.8	1472.8	1571.7	1670.5	1829.1	1987.8	1987.1	1690.2	1333.0	975.7
45°	1764.2	1737.4	1710.6	1741.7	1772.8	1949.6	2126.4	2176.3	1865.8	1421.1	976.3
50°	2319.8	2170.7	2021.6	1948.3	1875.0	2084.5	2293.9	2368.4	2091.9	1561.2	1030.5
55°	2787.9	2577.3	2366.6	2257.6	2148.5	2346.9	2545.2	2680.7	2455.3	1823.9	1192.5
60°	3035.5	2921.9	2808.2	2701.1	2593.9	2744.8	2895.7	2882.8	2678.3	1975.4	1272.6
65°	2585.3	2634.2	2683.2	2825.5	2967.8	2989.7	3011.5	2779.9	2364.1	1705.3	1046.5
70°	1591.7	1733.1	1874.4	2202.4	2530.4	2506.7	2483.0	2197.2	1678.5	1161.4	644.3
75°	790.3	904.9	1019.4	1358.8	1698.3	1494.4	1290.5	1009.6	721.9	521.4	320.9
80°	418.9	424.7	430.6	511.6	592.6	502.0	411.5	353.0	315.4	191.6	67.8
85°	34.5	49.0	63.4	38.8	14.2	20.0	25.9	8.6	22.8	19.1	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	4.4	4.7	5.1	4.7	4.4	4.4	4.4	4.4	4.4	4.4	4.4
100°	18.3	17.3	16.4	15.5	14.5	13.2	11.9	11.9	11.9	13.2	14.5
105°	45.4	44.7	44.1	42.5	41.0	39.7	38.4	38.4	38.4	39.7	41.0
110°	75.6	76.0	76.3	75.6	75.0	74.0	73.1	73.7	73.1	74.0	75.0
115°	112.8	113.7	114.7	113.7	112.8	112.2	111.6	112.2	111.6	112.2	112.8
120°	155.0	156.3	157.5	156.0	154.4	153.7	153.1	153.1	153.1	153.7	154.4
125°	197.2	197.9	198.5	196.9	195.3	195.3	195.3	195.3	195.3	195.3	195.3
130°	237.6	238.8	240.0	240.0	240.0	239.4	238.8	239.4	238.8	239.4	240.0
135°	279.2	280.7	282.3	282.0	281.7	282.6	283.5	284.2	283.5	282.6	281.7
140°	315.1	315.7	316.3	316.9	317.6	319.1	320.7	322.0	320.7	319.2	317.6
145°	350.4	352.2	354.1	353.8	353.5	352.5	351.6	352.9	351.6	352.6	353.5
150°	376.2	377.1	378.1	379.0	379.9	380.9	381.8	384.4	381.8	380.9	379.9
155°	394.5	396.0	397.6	399.2	400.8	401.4	402.0	403.9	402.0	401.4	400.8
160°	414.6	416.5	418.4	417.4	416.5	416.2	415.8	419.7	415.8	416.2	416.5
165°	423.4	425.0	426.6	427.6	428.5	427.9	427.2	429.8	427.2	427.9	428.5
170°	432.2	433.2	434.1	435.7	437.3	438.0	438.6	441.7	438.6	438.0	437.3
175°	434.8	436.4	438.0	438.3	438.6	438.0	437.3	440.4	437.3	438.0	438.6
180°	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6
5°	1112.8	1075.5	1049.0	1022.5	994.8	967.1	958.2	949.2	930.7	912.3	899.0
10°	811.6	756.4	712.7	669.0	639.7	610.4	585.5	560.5	538.7	516.8	498.3
15°	669.3	613.5	583.6	553.8	526.0	498.3	471.5	444.7	415.2	385.6	359.4
20°	647.1	559.3	503.3	447.2	402.2	357.3	311.7	266.1	229.5	192.8	175.6
25°	656.9	510.6	422.3	333.9	265.8	197.7	166.9	136.1	125.0	114.0	107.8
30°	681.6	464.4	355.1	245.8	195.0	144.1	127.8	111.5	103.2	94.9	89.6
35°	683.7	410.2	305.5	200.8	155.8	110.9	100.1	89.3	83.5	77.6	74.2
40°	682.2	388.7	286.4	184.2	139.5	94.9	87.2	79.5	73.0	66.5	62.2
45°	677.6	378.8	272.6	166.3	130.0	93.6	84.4	75.1	68.7	62.2	57.3
50°	698.8	367.1	259.9	152.8	118.6	84.4	83.2	81.9	72.1	62.2	56.1
55°	768.4	344.3	239.3	134.3	103.8	73.3	77.6	81.9	72.1	62.2	54.8
60°	786.6	300.6	196.2	91.8	76.7	61.6	62.5	63.4	60.4	57.3	49.0
65°	639.4	232.2	157.4	82.5	66.2	49.9	47.7	45.6	48.4	51.1	42.8
70°	424.4	204.5	147.8	91.2	65.3	39.4	37.9	36.3	35.1	33.9	31.1
75°	238.7	156.5	118.0	79.5	55.1	30.8	31.1	31.4	30.2	29.0	26.2
80°	58.8	49.9	40.0	30.2	27.1	24.0	23.7	23.4	24.0	24.6	23.7
85°	17.9	20.3	19.4	18.5	16.9	15.4	15.4	15.4	15.7	16.0	15.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	4.7	5.1	4.7	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.1
100°	15.5	16.4	17.4	18.3	15.8	13.2	10.4	7.6	7.0	6.3	6.0
105°	42.6	44.1	44.8	45.4	42.6	39.7	35.0	30.2	26.5	22.7	19.8
110°	75.6	76.3	76.0	75.6	73.7	71.8	68.1	64.2	59.6	54.8	50.8
115°	113.8	114.7	113.8	112.8	111.2	109.6	107.8	105.9	103.1	100.2	96.4
120°	156.0	157.5	156.3	155.0	154.1	153.1	151.2	149.3	148.1	146.8	144.6
125°	196.9	198.5	197.9	197.2	196.3	195.3	193.8	192.2	190.3	188.4	187.5
130°	240.0	240.0	238.8	237.6	236.0	234.4	233.8	233.1	231.9	230.6	229.4
135°	282.0	282.3	280.8	279.2	277.3	275.3	274.7	274.1	273.2	272.2	270.4
140°	317.0	316.3	315.7	315.1	314.1	313.2	311.3	309.4	308.8	308.1	307.5
145°	353.8	354.1	352.3	350.4	348.8	347.2	346.9	346.5	345.6	344.7	343.8
150°	379.0	378.1	377.2	376.2	374.9	373.7	373.7	373.7	373.7	373.7	373.7
155°	399.2	397.6	396.1	394.5	395.1	395.7	396.4	397.0	396.1	395.1	394.5
160°	417.4	418.4	416.5	414.6	413.7	412.7	412.7	412.7	413.1	413.4	414.3
165°	427.6	426.6	425.0	423.4	423.7	424.0	424.0	424.0	425.0	425.9	425.9
170°	435.7	434.1	433.2	432.2	433.8	435.4	436.1	436.7	436.4	436.1	436.1
175°	438.3	438.0	436.4	434.8	434.8	434.8	435.1	435.4	436.7	438.0	438.6
180°	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0



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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6
5°	885.8	870.1	854.4	841.4	850.7	845.1	839.6	826.3	813.1	804.5	795.8
10°	479.8	461.7	443.5	438.0	432.4	429.3	426.3	432.1	438.0	435.2	432.4
15°	333.2	309.2	285.2	272.3	261.2	247.0	232.8	222.1	211.3	204.8	198.3
20°	158.3	147.8	137.4	130.6	126.3	123.8	121.3	119.5	117.7	114.0	110.3
25°	101.6	97.6	93.6	90.5	87.5	85.0	82.5	80.1	77.6	77.6	77.6
30°	84.4	82.2	80.1	78.2	75.1	71.8	68.4	65.9	63.4	61.3	59.1
35°	70.8	70.2	69.6	67.8	63.4	60.7	57.9	55.1	52.4	49.6	46.8
40°	57.9	54.5	51.1	48.0	45.0	42.2	39.4	38.2	37.0	36.3	35.7
45°	52.4	49.0	45.6	42.5	38.8	35.7	32.6	29.9	27.1	25.6	24.0
50°	49.9	46.2	42.5	40.0	36.3	32.3	28.3	24.9	21.6	19.1	16.6
55°	47.4	44.0	40.7	37.0	33.3	29.3	25.3	22.2	19.1	16.3	13.6
60°	40.7	37.9	35.1	32.6	29.0	25.3	21.6	18.8	16.0	13.6	11.1
65°	34.5	31.7	29.0	26.5	24.0	20.9	17.9	15.1	12.3	10.8	9.2
70°	28.3	26.2	24.0	21.6	19.7	17.6	15.4	12.6	9.9	8.3	6.8
75°	23.4	21.9	20.3	18.5	17.9	15.7	13.6	11.4	9.2	7.4	5.5
80°	22.8	20.3	17.9	16.6	16.0	14.2	12.3	10.2	8.0	6.5	4.9
85°	14.2	12.9	11.7	11.7	11.1	9.5	8.0	6.8	5.5	4.3	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	3.8	3.4	3.1	3.1	3.1	3.4	3.8	4.1	4.4	4.4	4.4
100°	5.7	5.4	5.1	5.1	5.1	5.4	5.7	6.0	6.3	7.0	7.6
105°	17.0	15.5	13.9	13.2	13.9	15.5	17.0	19.8	22.7	26.5	30.2
110°	46.6	44.8	42.9	41.6	42.9	44.8	46.6	50.8	54.8	59.6	64.2
115°	92.6	90.1	87.6	88.2	87.6	90.1	92.6	96.4	100.2	103.1	105.9
120°	142.4	141.5	140.5	141.8	140.5	141.5	142.4	144.6	146.8	148.1	149.3
125°	186.5	185.9	185.2	187.8	185.2	185.9	186.5	187.5	188.4	190.3	192.2
130°	228.1	227.8	227.5	228.7	227.5	227.8	228.1	229.4	230.6	231.9	233.1
135°	268.4	268.4	268.4	270.3	268.4	268.4	268.4	270.4	272.2	273.2	274.1
140°	306.9	306.3	305.6	307.5	305.6	306.3	306.9	307.5	308.1	308.8	309.4
145°	342.8	343.4	344.0	346.5	344.0	343.4	342.8	343.8	344.7	345.6	346.5
150°	373.7	373.3	373.0	374.9	373.0	373.3	373.7	373.7	373.7	373.7	373.7
155°	393.8	393.8	393.8	396.3	393.8	393.8	393.8	394.5	395.1	396.1	397.0
160°	415.2	415.5	415.8	417.8	415.8	415.5	415.2	414.3	413.4	413.1	412.7
165°	425.9	426.6	427.2	429.1	427.2	426.6	425.9	425.9	425.9	425.0	424.0
170°	436.1	437.0	438.0	439.8	438.0	437.0	436.1	436.1	436.1	436.4	436.7
175°	439.2	439.5	439.8	441.1	439.8	439.5	439.2	438.6	438.0	436.7	435.4
180°	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6
5°	791.2	786.6	783.5	780.4	766.0	751.5	751.8	752.1	754.3	756.4	739.8
10°	424.7	417.0	413.0	409.0	394.8	380.7	379.4	378.2	377.0	375.7	373.9
15°	199.3	200.2	190.3	180.5	177.7	174.9	165.7	156.5	155.2	154.0	148.5
20°	107.2	104.1	93.6	83.2	76.4	69.6	67.4	65.3	65.0	64.7	65.9
25°	73.9	70.2	64.4	58.5	55.7	53.0	51.7	50.5	50.2	49.9	49.3
30°	56.1	53.0	49.6	46.2	43.7	41.3	40.3	39.4	38.8	38.2	38.2
35°	43.7	40.7	38.2	35.7	33.6	31.4	30.2	29.0	28.6	28.3	28.3
40°	34.2	32.6	29.6	26.5	24.0	21.6	20.3	19.1	19.1	19.1	18.5
45°	24.0	24.0	21.3	18.5	16.3	14.2	12.9	11.7	11.4	11.1	11.1
50°	15.7	14.8	13.9	12.9	10.8	8.6	7.7	6.8	6.5	6.2	6.2
55°	11.7	9.9	8.6	7.4	6.2	4.9	4.3	3.7	3.4	3.1	3.1
60°	9.5	8.0	6.5	4.9	4.0	3.1	2.5	1.8	1.5	1.2	1.2
65°	7.4	5.5	4.3	3.1	2.5	1.8	1.2	0.6	0.3	0.0	0.0
70°	5.5	4.3	3.1	1.8	1.2	0.6	0.3	0.0	0.0	0.0	0.0
75°	4.3	3.1	2.5	1.8	1.5	1.2	0.9	0.6	0.3	0.0	0.0
80°	4.0	3.1	2.8	2.5	2.2	1.8	1.5	1.2	0.6	0.0	0.0
85°	2.5	1.8	1.2	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	4.4	4.4	4.4	4.4	4.7	5.1	4.7	4.4	4.4	4.4	4.4
100°	10.4	13.2	15.8	18.3	17.4	16.4	15.5	14.5	13.2	11.9	11.9
105°	35.0	39.7	42.6	45.4	44.8	44.1	42.6	41.0	39.7	38.4	38.4
110°	68.1	71.8	73.7	75.6	76.0	76.3	75.6	75.0	74.0	73.1	73.7
115°	107.8	109.6	111.2	112.8	113.8	114.7	113.8	112.8	112.2	111.6	112.2
120°	151.2	153.1	154.1	155.0	156.3	157.5	156.0	154.4	153.7	153.1	153.1
125°	193.8	195.3	196.3	197.2	197.9	198.5	196.9	195.3	195.3	195.3	195.3
130°	233.8	234.4	236.0	237.6	238.8	240.0	240.0	240.0	239.4	238.8	239.4
135°	274.7	275.3	277.3	279.2	280.8	282.3	282.0	281.7	282.6	283.5	284.2
140°	311.3	313.2	314.1	315.1	315.7	316.3	317.0	317.6	319.2	320.7	322.0
145°	346.9	347.2	348.8	350.4	352.3	354.1	353.8	353.5	352.6	351.6	352.9
150°	373.7	373.7	374.9	376.2	377.2	378.1	379.0	379.9	380.9	381.8	384.4
155°	396.4	395.7	395.1	394.5	396.1	397.6	399.2	400.8	401.4	402.0	403.9
160°	412.7	412.7	413.7	414.6	416.5	418.4	417.4	416.5	416.2	415.8	419.7
165°	424.0	424.0	423.7	423.4	425.0	426.6	427.6	428.5	427.9	427.2	429.8
170°	436.1	435.4	433.8	432.2	433.2	434.1	435.7	437.3	438.0	438.6	441.7
175°	435.1	434.8	434.8	434.8	436.4	438.0	438.3	438.6	438.0	437.3	440.4
180°	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	0°
5°	761.3	764.1	766.9	780.4	794.0	808.5	822.9	852.2	881.5	906.7	932.0	5°
10°	391.8	403.8	415.8	439.5	463.2	489.1	515.0	540.8	566.7	596.6	626.5	10°
15°	149.7	168.8	187.9	223.6	259.3	297.2	335.1	376.1	417.0	453.1	489.1	15°
20°	67.1	68.4	69.6	74.2	78.8	92.1	105.3	152.8	200.2	277.8	355.4	20°
25°	50.5	51.4	52.4	55.1	57.9	61.6	65.3	73.0	80.7	131.5	182.3	25°
30°	38.8	39.7	40.7	42.5	44.4	47.4	50.5	54.2	57.9	73.9	89.9	30°
35°	29.0	29.6	30.2	32.0	33.9	35.7	37.6	40.0	42.5	48.4	54.2	35°
40°	19.7	20.6	21.6	23.1	24.6	26.5	28.3	30.8	33.3	38.5	43.7	40°
45°	11.7	12.6	13.6	15.4	17.2	20.0	22.8	27.1	31.4	30.8	30.2	45°
50°	6.2	6.8	7.4	9.5	11.7	18.2	24.6	24.3	24.0	22.5	20.9	50°
55°	3.1	4.0	4.9	6.2	7.4	9.5	11.7	12.3	12.9	14.5	16.0	55°
60°	1.8	2.5	3.1	4.3	5.5	6.8	8.0	8.6	9.2	10.8	12.3	60°
65°	0.0	0.6	1.2	1.8	2.5	3.1	3.7	4.3	4.9	5.9	6.8	65°
70°	0.0	0.0	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.2	2.5	70°
75°	0.6	0.6	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	75°
80°	0.0	0.3	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80°
85°	0.0	0.0	0.0	0.0	0.0	0.0	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°	4.4	4.4	4.4	4.7	5.1	4.7	4.4	4.4	4.4	4.4	4.4	95°
100°	11.9	13.2	14.5	15.5	16.4	17.3	18.3	15.8	13.2	10.4	7.6	100°
105°	38.4	39.7	41.0	42.5	44.1	44.7	45.4	42.6	39.7	35.0	30.2	105°
110°	73.1	74.0	75.0	75.6	76.3	76.0	75.6	73.7	71.8	68.1	64.2	110°
115°	111.6	112.2	112.8	113.7	114.7	113.7	112.8	111.2	109.6	107.8	105.9	115°
120°	153.1	153.7	154.4	156.0	157.5	156.3	155.0	154.1	153.1	151.2	149.3	120°
125°	195.3	195.3	195.3	196.9	198.5	197.9	197.2	196.3	195.3	193.8	192.2	125°
130°	238.8	239.4	240.0	240.0	240.0	238.8	237.6	236.0	234.4	233.8	233.1	130°
135°	283.5	282.6	281.7	282.0	282.3	280.7	279.2	277.3	275.3	274.7	274.1	135°
140°	320.7	319.1	317.6	316.9	316.3	315.7	315.1	314.1	313.2	311.3	309.4	140°
145°	351.6	352.5	353.5	353.8	354.1	352.2	350.4	348.8	347.2	346.9	346.5	145°
150°	381.8	380.9	379.9	379.0	378.1	377.1	376.2	374.9	373.7	373.7	373.7	150°
155°	402.0	401.4	400.8	399.2	397.6	396.0	394.5	395.1	395.7	396.4	397.0	155°
160°	415.8	416.2	416.5	417.4	418.4	416.5	414.6	413.7	412.7	412.7	412.7	160°
165°	427.2	427.9	428.5	427.6	426.6	425.0	423.4	423.7	424.0	424.0	424.0	165°
170°	438.6	438.0	437.3	435.7	434.1	433.2	432.2	433.8	435.4	436.1	436.7	170°
175°	437.3	438.0	438.6	438.3	438.0	436.4	434.8	434.8	434.8	435.1	435.4	175°
180°	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	180°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1150.6	1150.6	1150.6	1150.6	1150.6	1150.6	1150.6
959.1	986.2	1020.1	1053.9	1089.1	1124.2	1166.7
670.2	713.9	762.9	811.9	867.9	924.0	989.9
533.4	577.8	637.8	697.9	775.8	853.7	946.8
430.0	504.5	604.6	704.7	839.3	973.9	1122.9
309.8	437.3	608.3	779.2	997.6	1215.9	1423.5
187.6	285.2	559.0	832.8	1136.2	1439.5	1629.9
111.5	168.8	488.8	808.8	1213.8	1618.8	1839.9
69.3	94.9	383.8	672.6	1245.5	1818.4	2103.0
39.1	48.0	281.8	515.6	1252.9	1990.2	2317.3
25.3	29.6	256.9	484.2	1319.1	2154.1	2410.3
20.3	24.6	262.4	500.2	1438.0	2375.8	2598.2
16.3	20.3	221.1	421.9	1361.3	2300.7	2635.2
9.5	12.3	129.7	247.0	1080.1	1913.2	2348.7
4.3	6.2	40.7	75.1	633.5	1191.9	1676.7
1.2	2.5	8.3	14.2	193.4	372.7	667.7
0.0	0.0	1.2	2.5	34.8	67.1	193.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.1
4.4	4.4	4.1	3.8	3.4	3.1	3.1
7.0	6.3	6.0	5.7	5.4	5.1	5.1
26.5	22.7	19.8	17.0	15.5	13.9	13.2
59.6	54.8	50.8	46.6	44.8	42.9	41.6
103.1	100.2	96.4	92.6	90.1	87.6	88.2
148.1	146.8	144.6	142.4	141.5	140.5	141.8
190.3	188.4	187.5	186.5	185.9	185.2	187.8
231.9	230.6	229.4	228.1	227.8	227.5	228.7
273.2	272.2	270.4	268.4	268.4	268.4	270.3
308.8	308.1	307.5	306.9	306.3	305.6	307.5
345.6	344.7	343.8	342.8	343.4	344.0	346.5
373.7	373.7	373.7	373.7	373.3	373.0	374.9
396.1	395.1	394.5	393.8	393.8	393.8	396.3
413.1	413.4	414.3	415.2	415.5	415.8	417.8
425.0	425.9	425.9	425.9	426.6	427.2	429.1
436.4	436.1	436.1	436.1	437.0	438.0	439.8
436.7	438.0	438.6	439.2	439.5	439.8	441.1
441.0	441.0	441.0	441.0	441.0	441.0	441.0

(END OF REPORT)