

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: P401450

Luminaire Tested: **ENV-SA1D-730-U-SL2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1D-730-U-SL2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5079 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 43.1
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

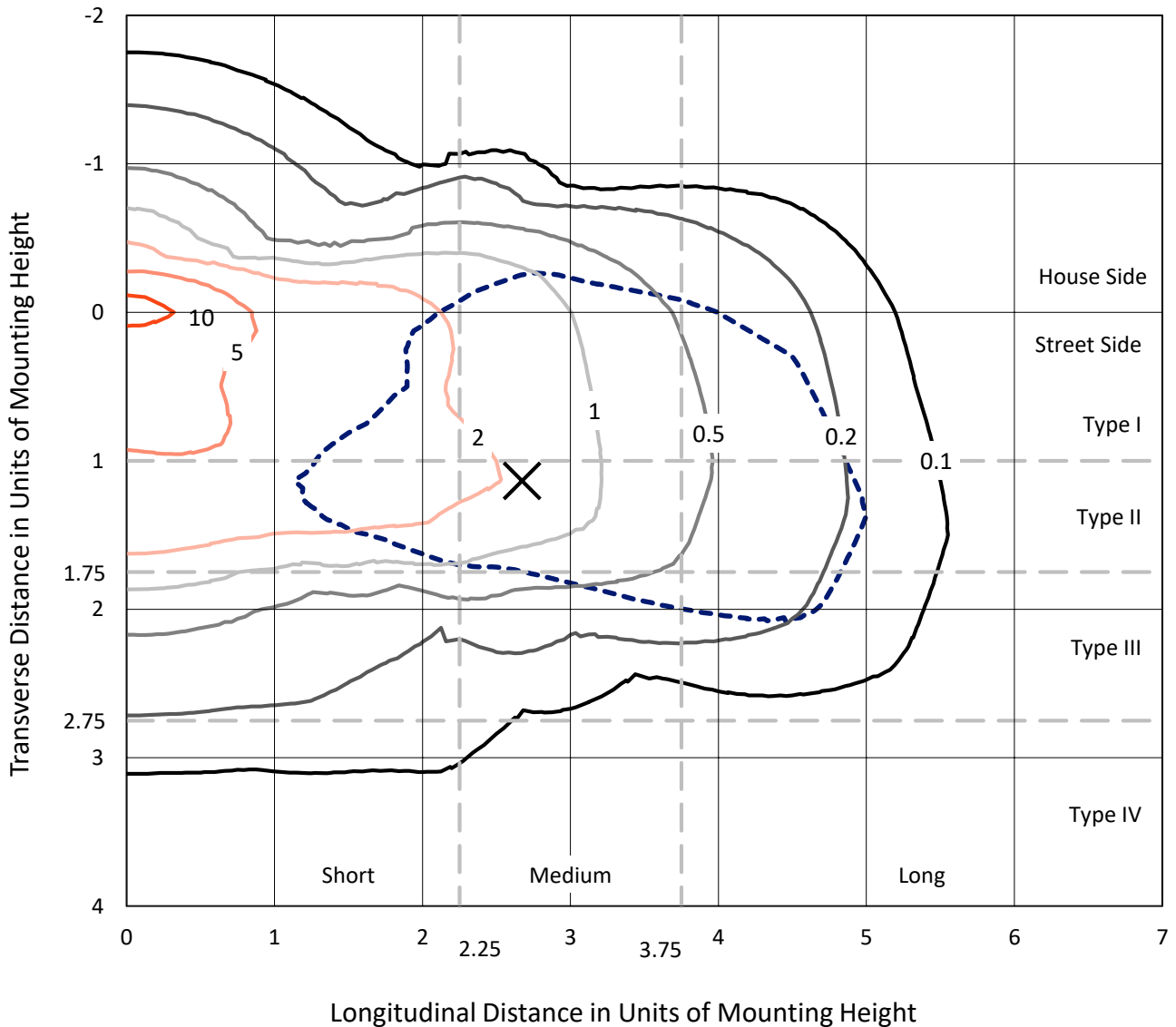


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Iso-Footcandle Lines of Horizontal Illumination

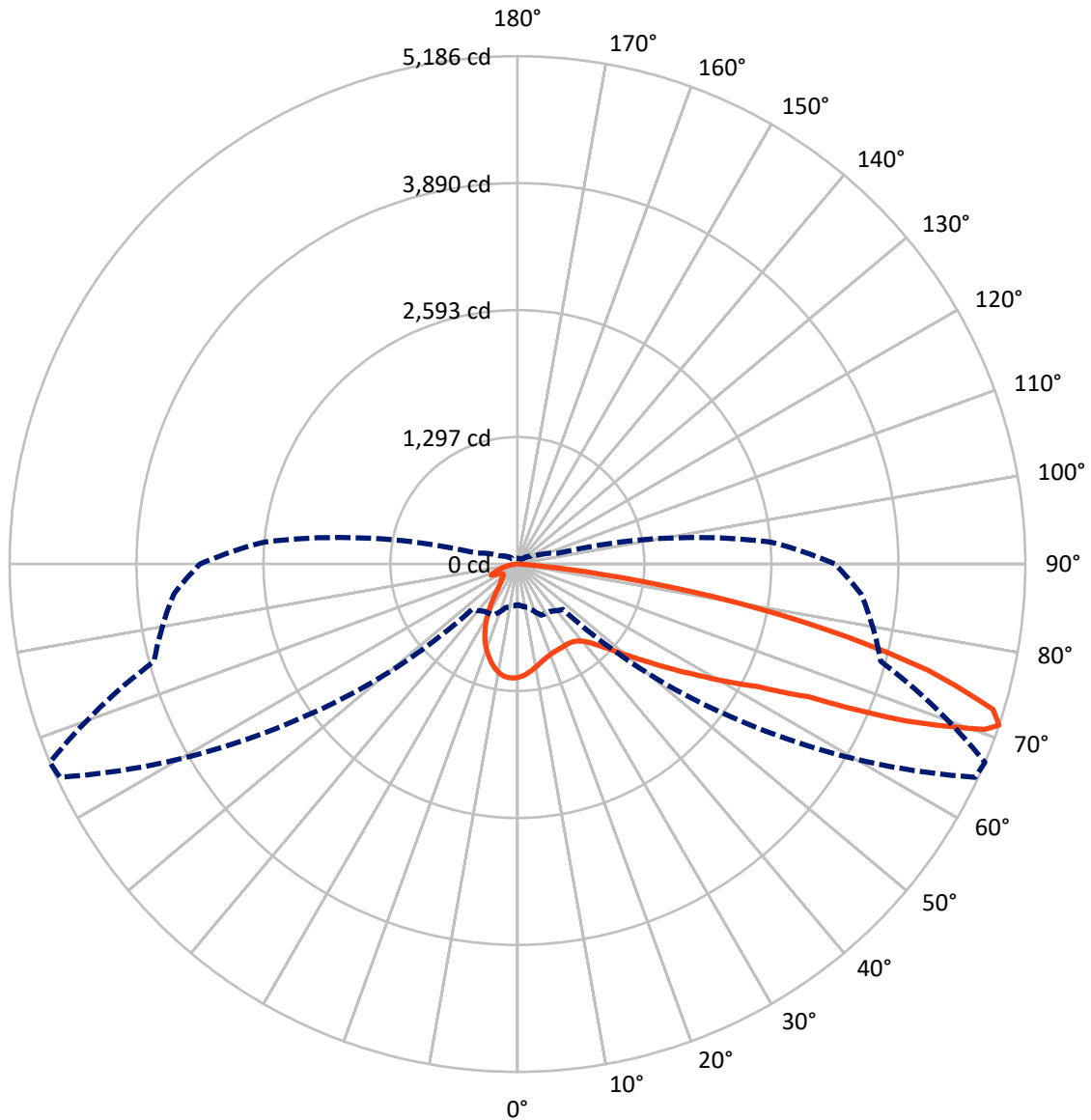
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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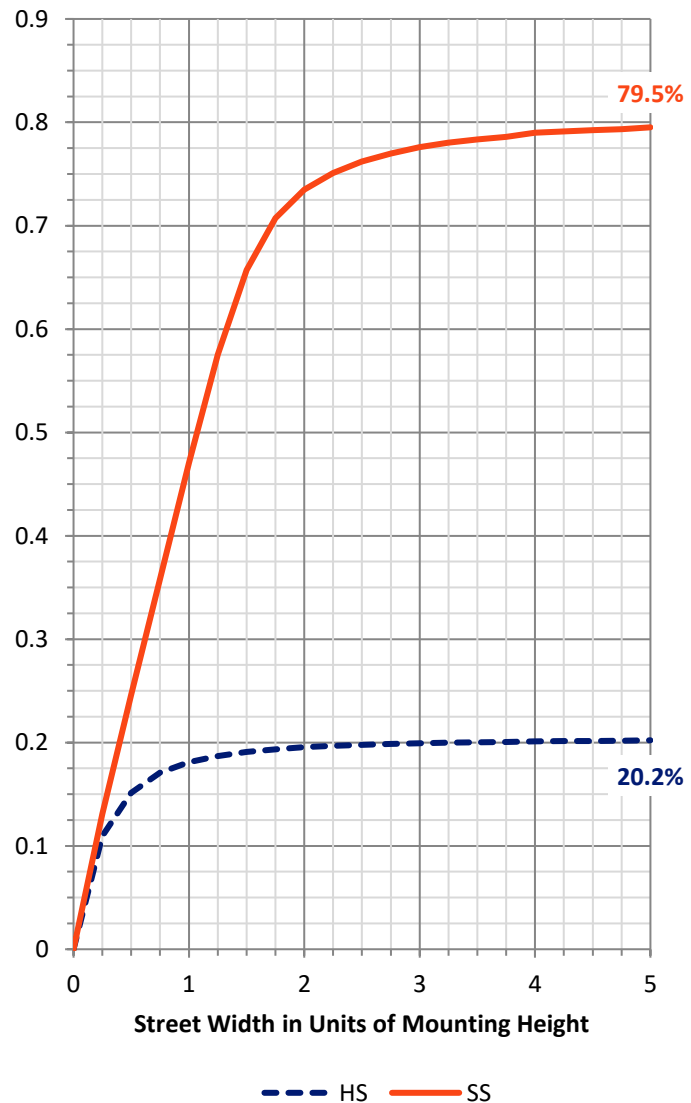
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1040.5	0.0	1040.5
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	4038.5	0.0	4038.5
	% Fixture	79.5	0.0	79.5
Total	Lumens	5079.0	0.0	5079.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	2.0
10°-20°	252.2	5.0
20°-30°	340.5	6.7
30°-40°	448.5	8.8
40°-50°	638.8	12.6
50°-60°	975.8	19.2
60°-70°	1218.5	24.0
70°-80°	983.5	19.4
80°-90°	118.5	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5079.0	100.0
0°-180°	5079.0	100.0



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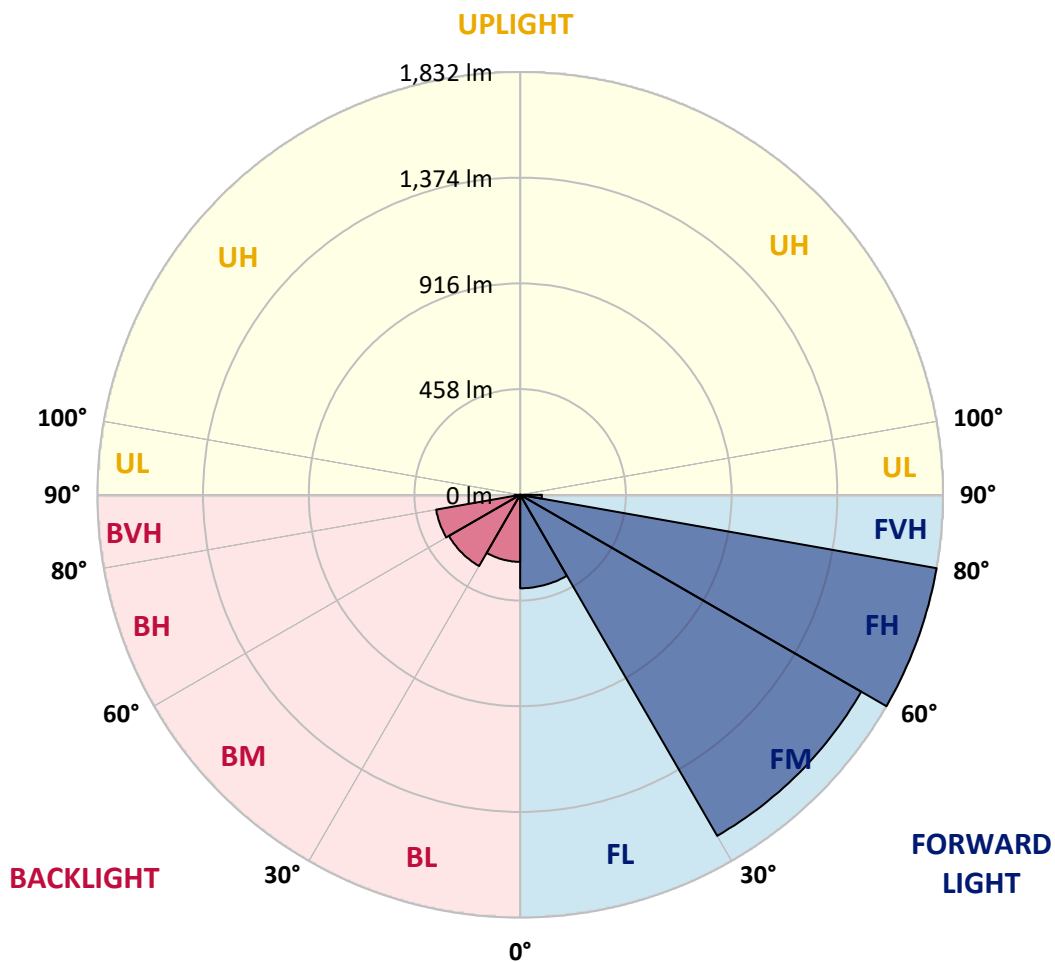
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	405.0	8.0			
FM	(30°-60°)	1706.6	33.6			
FH	(60°-80°)	1832.3	36.1			G2/5000
FVH	(80°-90°)	94.5	1.9			G1/100
BL	(0°-30°)	290.3	5.7	B1/500		
BM	(30°-60°)	356.5	7.0	B1/1000		
BH	(60°-80°)	369.8	7.3	B1/500		G1/500
BVH	(80°-90°)	24.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1
2.5°	1092.3	1097.5	1098.2	1108.4	1112.1	1123.8	1130.4	1141.3	1142.8	1149.4	1153.8
5°	1021.4	1022.2	1026.5	1035.3	1049.2	1070.4	1086.5	1113.5	1118.7	1137.7	1154.5
7.5°	957.8	961.5	968.8	981.9	998.0	1022.9	1047.7	1085.0	1092.3	1123.1	1155.2
10°	914.7	918.3	924.2	938.8	954.9	982.7	1012.6	1055.8	1063.8	1106.2	1153.0
12.5°	880.3	884.0	888.4	904.4	922.0	949.8	980.5	1028.7	1036.8	1085.8	1147.9
15°	857.6	858.4	864.2	877.4	897.1	924.2	954.9	1004.6	1014.1	1069.7	1146.4
17.5°	843.8	845.2	850.3	860.6	878.1	904.4	934.4	984.9	995.8	1056.5	1147.2
20°	844.5	845.9	848.9	852.5	865.0	887.6	919.1	970.2	981.2	1048.5	1152.3
22.5°	859.8	860.6	861.3	856.2	860.6	876.7	907.4	960.0	971.7	1044.8	1158.1
25°	889.1	889.1	887.6	875.9	866.4	873.0	900.8	956.3	968.0	1041.9	1164.0
27.5°	929.3	932.2	924.9	911.0	889.1	878.1	899.3	953.4	965.1	1041.9	1166.9
30°	984.1	985.6	982.7	964.4	928.6	898.6	903.7	951.2	962.9	1040.4	1167.7
32.5°	1039.7	1044.1	1047.7	1031.7	988.5	935.1	921.3	954.2	964.4	1039.7	1165.5
35°	1096.0	1098.9	1116.5	1113.5	1066.8	990.0	949.8	965.9	974.6	1043.4	1166.9
37.5°	1144.3	1150.8	1176.4	1196.2	1159.6	1064.6	998.8	991.4	996.6	1061.6	1175.0
40°	1196.2	1205.7	1243.7	1281.0	1264.9	1158.1	1068.2	1037.5	1036.0	1095.3	1194.7
42.5°	1254.7	1265.6	1314.6	1368.7	1373.8	1277.3	1161.1	1102.6	1101.1	1153.0	1237.8
45°	1323.4	1333.6	1400.2	1464.5	1495.9	1410.4	1275.1	1194.7	1195.4	1233.5	1306.6
47.5°	1408.2	1424.3	1488.6	1570.5	1626.8	1560.3	1413.3	1323.4	1317.5	1354.8	1419.2
50°	1527.4	1540.5	1593.9	1673.6	1772.3	1741.6	1587.3	1478.4	1474.0	1491.6	1569.8
52.5°	1652.4	1656.8	1682.4	1765.0	1931.0	1961.7	1801.6	1670.7	1653.9	1663.4	1757.0
55°	1659.7	1669.2	1686.0	1790.6	2073.6	2225.6	2037.7	1897.3	1875.4	1868.8	1969.7
57.5°	1507.6	1523.0	1544.9	1680.2	2079.4	2530.5	2373.3	2162.0	2122.5	2089.6	2197.1
60°	1185.2	1204.9	1245.2	1411.1	1931.0	2704.5	2933.4	2458.9	2423.8	2311.9	2419.4
62.5°	856.9	865.0	903.7	978.3	1532.5	2714.8	3516.8	2846.4	2759.4	2528.3	2610.9
65°	690.2	703.4	715.1	714.3	907.4	2407.7	3904.4	3535.9	3273.4	2770.3	2821.5
67.5°	568.8	573.2	601.7	651.5	617.1	1487.2	3943.1	4543.4	4277.2	3096.4	3071.6
70°	475.2	476.7	505.2	594.4	590.8	767.7	3306.3	5123.2	5058.8	3631.6	3462.7
71°	416.0	428.5	459.9	575.4	587.8	655.8	2809.1	5153.9	5186.1	3841.5	3523.4
72.5°	327.6	327.6	372.2	527.9	593.0	605.4	2069.9	4986.5	5079.3	4079.8	3418.1
75°	192.3	190.8	215.0	367.8	606.1	603.2	1130.4	4144.2	4332.1	4123.0	3163.7
77.5°	108.2	110.4	123.6	204.7	481.1	579.1	649.3	3017.5	3239.0	3448.8	2675.3
80°	49.7	52.6	62.1	99.4	283.7	500.1	463.6	1959.5	2043.6	2072.8	1264.2
82.5°	13.2	14.6	19.0	38.0	109.7	340.7	342.9	820.4	847.4	489.9	271.3
85°	0.0	0.0	0.0	0.0	1.5	41.7	97.2	147.7	122.8	65.1	55.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	2.2	2.9	2.9	2.9	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1
2.5°	1157.4	1160.3	1165.5	1164.7	1163.3	1154.5	1159.6	1154.5	1153.8	1151.6	1152.3
5°	1160.3	1164.7	1167.7	1161.1	1150.1	1131.1	1124.5	1107.7	1096.7	1090.9	1088.0
7.5°	1164.7	1167.7	1166.2	1147.9	1119.4	1083.6	1052.9	1028.7	1003.1	998.8	997.3
10°	1164.7	1167.7	1156.0	1120.9	1071.9	1015.6	968.8	929.3	889.8	875.2	877.4
12.5°	1161.8	1163.3	1136.2	1079.9	1009.0	932.2	866.4	801.3	750.9	720.2	714.3
15°	1159.6	1157.4	1109.9	1028.7	934.4	839.4	739.9	652.2	592.2	552.0	546.9
17.5°	1159.6	1151.6	1078.5	970.2	853.3	722.4	590.8	495.7	429.2	405.8	405.1
20°	1161.1	1143.5	1044.8	909.6	752.4	583.5	440.9	359.7	334.9	331.2	331.9
22.5°	1162.5	1132.6	1008.3	840.8	639.8	435.0	315.1	285.9	288.1	296.8	296.1
25°	1161.1	1117.9	965.1	764.1	516.9	313.7	254.4	247.1	260.3	270.5	273.5
27.5°	1157.4	1098.9	919.1	672.7	394.1	247.1	222.3	221.5	234.7	244.2	243.5
30°	1146.4	1076.3	865.7	576.1	284.4	210.6	200.3	202.5	211.3	220.1	220.1
32.5°	1134.7	1050.7	809.4	470.9	218.6	190.8	187.2	187.9	193.8	200.3	199.6
35°	1122.3	1025.8	751.6	361.2	191.6	179.1	177.7	176.9	179.1	180.6	180.6
37.5°	1115.0	1003.9	688.0	272.0	176.9	171.8	168.9	166.0	165.2	163.8	162.3
40°	1117.9	989.3	626.6	210.6	168.2	163.8	159.4	155.0	152.1	150.6	149.9
42.5°	1138.4	984.9	558.6	181.3	160.1	156.5	150.6	143.3	140.4	140.4	139.7
45°	1185.9	998.0	495.0	166.7	152.8	148.4	138.9	133.8	131.6	132.3	132.3
47.5°	1260.5	1035.3	438.0	159.4	147.7	141.1	130.1	125.0	123.6	124.3	124.3
50°	1372.4	1105.5	379.5	152.8	141.8	133.1	123.6	117.7	115.5	115.5	115.5
52.5°	1536.2	1221.0	337.1	148.4	136.7	126.5	117.0	110.4	107.5	107.5	106.7
55°	1735.8	1371.6	321.0	145.5	130.1	120.6	110.4	103.8	99.4	98.0	98.7
57.5°	1954.4	1566.9	344.4	144.8	122.8	114.1	103.8	95.8	91.4	90.7	89.9
60°	2179.6	1760.6	411.6	141.1	117.0	106.0	96.5	89.2	84.8	83.4	82.6
62.5°	2374.1	1953.6	522.8	138.2	112.6	98.7	88.5	81.9	78.2	76.0	76.0
65°	2608.8	2175.2	692.4	141.8	110.4	91.4	81.2	75.3	72.4	70.2	70.2
67.5°	2929.0	2503.5	821.1	159.4	115.5	85.5	73.1	68.7	66.5	65.1	65.1
70°	3244.1	2687.7	571.0	187.2	128.7	80.4	65.8	62.9	61.4	60.0	60.0
71°	3239.7	2589.0	429.2	193.8	133.1	79.0	62.9	60.7	59.2	58.5	57.8
72.5°	3077.4	2353.6	307.8	187.9	130.9	74.6	59.2	57.0	55.6	55.6	54.8
75°	2760.1	2074.3	240.5	157.2	109.7	66.5	52.6	51.2	49.7	49.0	49.7
77.5°	2261.5	1659.7	189.4	124.3	83.4	54.8	46.8	44.6	43.9	43.1	43.9
80°	1039.0	723.1	138.2	96.5	62.1	43.9	39.5	38.8	38.0	37.3	37.3
82.5°	250.1	202.5	73.8	64.3	42.4	33.6	31.4	31.4	31.4	30.7	30.7
85°	54.8	54.8	30.0	30.0	25.6	23.4	24.9	24.9	24.9	23.4	23.4
87.5°	2.9	8.8	9.5	13.9	14.6	13.9	16.8	17.5	16.8	16.1	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

(END OF REPORT)