

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: McGRAW-EDISON

Report Number: P450689

Luminaire Tested: **GALN-SA1C-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5302 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

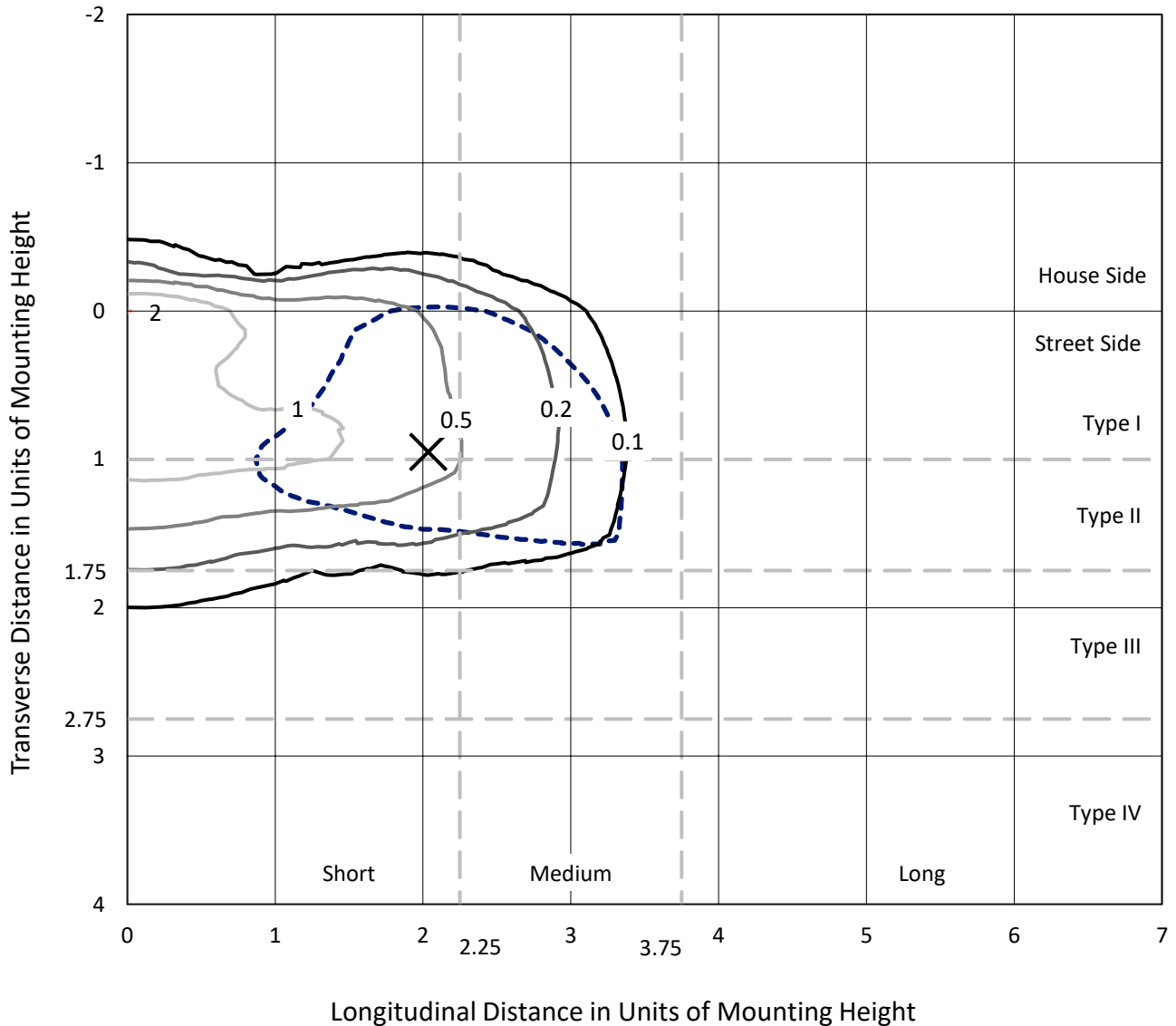
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

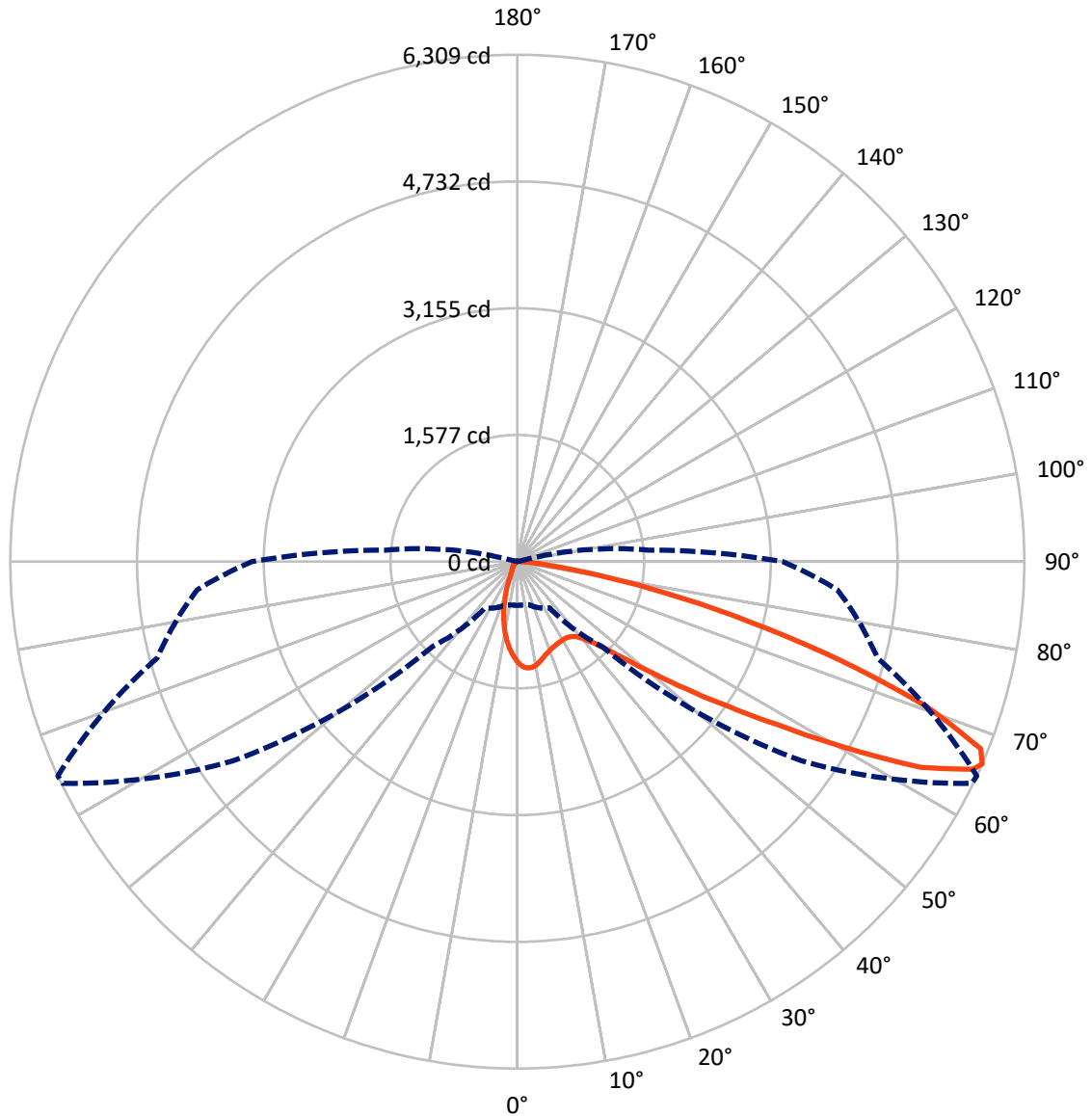
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	548.3	0.0	548.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4753.7	0.0	4753.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	5302.0	0.0	5302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	1.9
10°-20°	224.0	4.2
20°-30°	320.9	6.1
30°-40°	468.8	8.8
40°-50°	786.0	14.8
50°-60°	1311.8	24.7
60°-70°	1392.4	26.3
70°-80°	630.6	11.9
80°-90°	64.5	1.2
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°	5302.0	100.0
0°-180°	5302.0	100.0

Coefficient of Utilization



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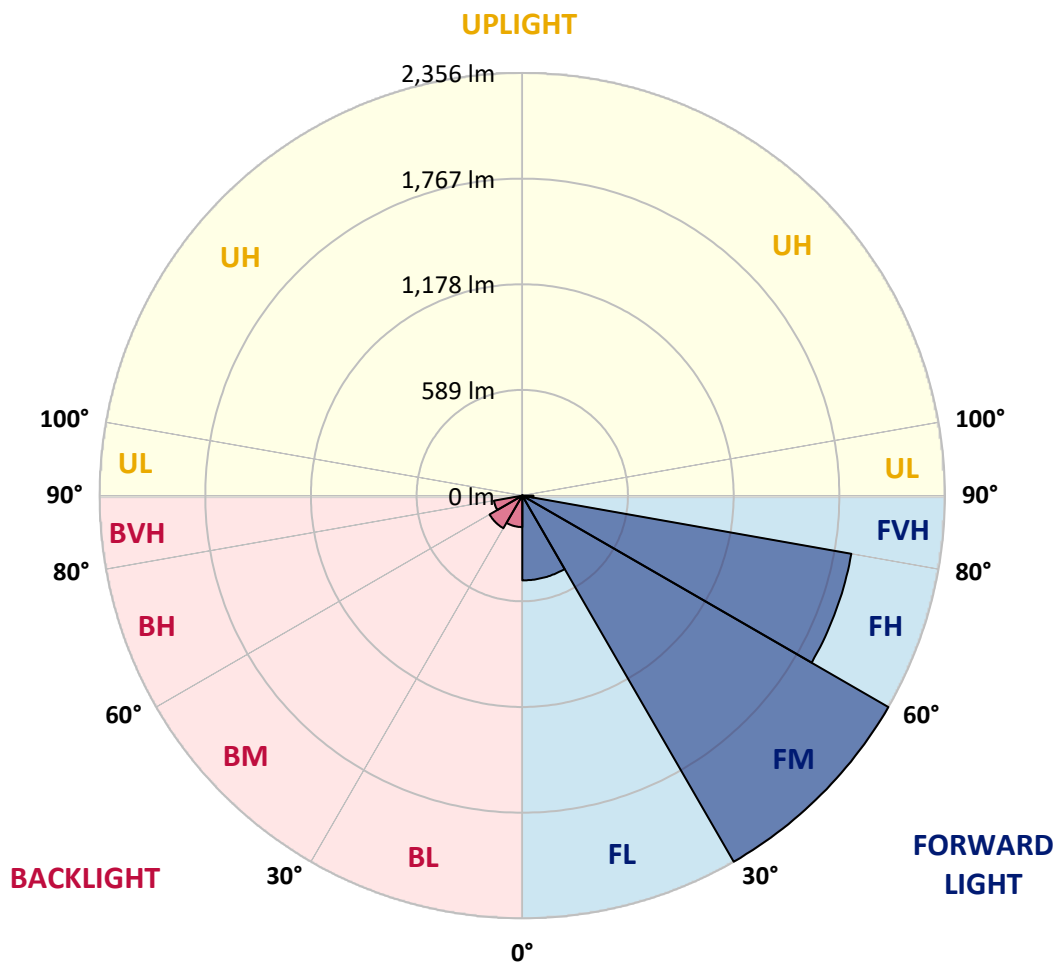
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.4	8.9			
FM (30°-60°)	2356.3	44.4			
FH (60°-80°)	1862.5	35.1			G2/5000
FVH (80°-90°)	62.5	1.2			G1/100
BL (0°-30°)	175.4	3.3	B1/500		
BM (30°-60°)	210.3	4.0	B0/220		
BH (60°-80°)	160.6	3.0	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3
2.5°	1325.0	1326.4	1328.2	1330.7	1332.5	1327.1	1319.6	1311.0	1309.2	1291.0	1268.8
5°	1254.1	1256.2	1272.0	1280.6	1299.9	1317.5	1328.6	1330.0	1329.3	1312.1	1276.6
7.5°	1153.1	1159.2	1174.6	1189.6	1225.8	1259.1	1298.5	1326.1	1327.8	1323.2	1279.1
10°	1071.1	1075.0	1082.9	1112.6	1142.7	1193.6	1248.7	1300.6	1304.9	1323.5	1277.0
12.5°	1007.0	1012.7	1022.4	1045.3	1081.5	1129.5	1192.1	1262.0	1270.9	1316.7	1270.9
15°	962.2	965.1	974.8	997.3	1032.4	1076.8	1140.2	1221.5	1229.4	1307.8	1269.8
17.5°	941.1	944.3	951.1	969.0	998.0	1039.2	1101.2	1188.9	1198.9	1302.1	1273.8
20°	946.8	949.7	950.0	959.4	979.1	1013.8	1072.5	1158.5	1171.4	1298.5	1280.2
22.5°	979.4	979.8	975.5	971.2	978.0	1003.0	1055.0	1139.1	1152.4	1297.8	1287.7
25°	1028.1	1029.2	1022.0	1007.0	993.4	1006.3	1051.0	1126.6	1138.4	1296.0	1292.4
27.5°	1095.4	1095.1	1092.9	1067.9	1029.2	1020.6	1054.3	1119.8	1129.8	1291.0	1294.2
30°	1189.6	1186.8	1182.1	1153.8	1094.7	1055.3	1067.9	1115.5	1124.8	1283.8	1289.5
32.5°	1282.4	1293.1	1292.4	1265.5	1191.8	1117.3	1096.2	1121.2	1128.0	1279.1	1282.7
35°	1390.5	1390.2	1417.7	1407.7	1321.4	1196.4	1144.5	1140.2	1145.6	1282.4	1279.5
37.5°	1490.8	1500.1	1543.1	1553.5	1474.7	1308.2	1212.9	1181.0	1182.8	1304.2	1287.4
40°	1615.8	1633.7	1697.8	1732.5	1663.0	1474.0	1313.9	1255.9	1256.2	1357.9	1317.1
42.5°	1776.9	1805.2	1865.0	1923.0	1885.8	1670.2	1465.4	1374.4	1373.7	1452.5	1385.1
45°	1972.8	1992.5	2060.5	2152.6	2128.9	1944.1	1685.9	1558.1	1548.8	1607.5	1505.8
47.5°	2141.8	2168.7	2237.8	2342.7	2450.1	2278.6	1949.5	1810.6	1804.5	1854.3	1712.8
50°	2215.6	2239.2	2311.9	2459.1	2719.4	2717.6	2342.0	2179.1	2168.7	2195.5	2033.0
52.5°	2134.7	2156.9	2230.3	2413.6	2846.2	3252.6	2910.7	2641.4	2628.8	2594.5	2415.4
55°	1857.5	1875.7	1984.2	2194.8	2797.5	3609.3	3694.2	3212.5	3163.8	3030.3	2848.4
57.5°	1479.0	1469.7	1537.0	1781.6	2511.7	3728.9	4498.5	3924.1	3837.1	3407.0	3214.7
60°	1024.9	1053.5	1080.8	1241.9	1888.6	3521.6	4998.8	4818.6	4704.0	3777.6	3565.6
62.5°	753.4	772.4	790.3	864.8	1187.5	2811.8	5087.2	5737.5	5635.8	4171.2	3900.5
65°	595.9	597.3	604.5	677.9	782.5	1828.5	4662.1	6255.7	6229.6	4550.1	4036.2
66°	542.9	543.2	554.3	633.1	702.2	1489.0	4321.6	6295.1	6309.4	4641.0	3996.4
67.5°	474.5	473.1	489.2	569.0	639.6	1073.6	3712.1	6135.4	6220.2	4710.8	3853.5
70°	367.8	366.0	385.7	477.4	589.1	716.2	2467.3	5268.1	5404.8	4568.0	3409.5
72.5°	244.9	246.4	280.0	376.7	562.2	630.6	1484.3	4007.5	4200.9	3772.3	2682.2
75°	142.9	145.4	183.7	280.0	488.1	601.3	840.1	2857.7	2981.2	2604.8	1670.9
77.5°	74.8	75.9	102.8	184.8	374.2	558.3	559.7	1825.6	1883.6	1265.9	661.4
80°	39.7	38.7	55.1	111.4	257.5	490.2	454.1	966.5	1004.8	376.0	167.2
82.5°	15.0	16.5	29.4	73.1	152.2	352.0	391.0	427.2	414.0	82.7	70.2
85°	2.9	3.6	12.5	43.3	76.6	147.2	288.3	209.5	194.1	31.2	40.5
87.5°	0.4	0.7	3.6	10.4	11.1	49.8	85.2	58.0	50.1	11.5	16.8
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°	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3
2.5°	1258.0	1248.3	1216.1	1184.2	1151.7	1122.3	1102.2	1069.7	1061.4	1049.6	1042.8
5°	1255.5	1232.9	1171.0	1103.3	1040.3	972.2	920.3	870.2	843.3	829.7	824.7
7.5°	1248.3	1212.5	1115.8	1009.9	908.9	807.2	718.7	651.4	608.1	578.3	558.3
10°	1234.0	1184.6	1051.7	906.0	753.4	619.2	507.1	421.8	356.0	335.2	335.9
12.5°	1219.3	1153.4	980.1	790.7	601.6	432.2	313.3	246.0	214.5	204.1	202.0
15°	1205.7	1123.7	909.9	679.0	448.0	280.0	202.0	178.3	169.7	168.0	167.6
17.5°	1198.6	1096.2	835.1	551.1	312.6	190.2	161.9	155.4	152.9	151.1	150.4
20°	1192.5	1072.2	763.5	431.5	213.8	155.8	145.0	138.9	134.6	132.9	131.8
22.5°	1188.2	1047.5	689.3	334.1	163.7	138.2	128.6	120.7	114.6	112.4	111.0
25°	1181.7	1020.2	614.5	244.2	137.9	122.8	111.7	102.4	94.5	90.6	89.9
27.5°	1172.4	989.4	532.5	180.8	123.2	109.2	95.6	84.2	76.3	72.0	72.3
30°	1157.4	957.2	450.5	143.6	111.4	95.3	80.6	69.5	62.0	58.7	58.4
32.5°	1139.5	918.2	375.3	123.2	100.6	82.7	67.3	57.7	51.9	49.4	49.1
35°	1122.7	878.8	298.7	110.7	89.5	71.3	56.6	48.3	44.0	41.9	42.3
37.5°	1113.3	843.7	232.8	100.6	80.6	61.2	48.7	41.5	37.6	35.8	35.5
40°	1119.4	815.0	185.1	91.7	70.5	52.6	41.9	35.8	31.9	29.4	29.4
42.5°	1148.1	802.5	149.3	83.1	61.2	45.5	36.5	30.8	26.5	24.0	24.4
45°	1235.5	815.8	125.0	75.2	52.6	39.4	31.5	25.4	21.5	19.7	19.3
47.5°	1380.5	865.5	108.1	67.0	45.1	33.7	26.5	21.1	17.2	15.8	15.4
50°	1634.0	968.3	95.6	58.7	38.3	28.6	21.8	16.8	13.6	12.2	12.2
52.5°	1982.8	1192.5	86.7	49.4	32.2	24.4	17.9	13.6	10.7	9.7	9.3
55°	2347.4	1428.8	82.0	41.5	26.9	20.1	14.3	10.7	8.2	7.2	6.8
57.5°	2697.9	1614.3	76.6	33.7	21.5	15.4	11.1	8.2	5.7	5.0	4.7
60°	3034.2	1764.4	65.2	26.9	16.8	11.1	8.2	5.7	3.9	3.2	3.2
62.5°	3335.0	1851.8	51.2	21.5	12.9	7.9	5.4	4.3	2.9	2.1	2.1
65°	3370.1	1738.2	38.7	16.5	9.3	5.0	3.2	3.2	2.1	1.4	1.4
66°	3299.6	1641.9	34.0	15.0	8.2	4.3	2.9	2.5	1.8	1.1	1.1
67.5°	3142.0	1477.5	29.4	12.9	6.8	3.2	2.1	2.1	1.4	0.7	0.7
70°	2714.8	1206.8	23.3	9.7	5.0	2.5	1.4	1.4	1.1	0.7	0.7
72.5°	2069.1	901.0	19.0	7.2	3.6	1.8	1.1	1.1	1.1	0.7	0.7
75°	1248.0	485.2	14.7	5.4	3.2	1.4	0.7	1.1	1.4	1.1	0.7
77.5°	459.8	165.1	11.5	4.3	2.5	1.4	0.7	0.7	1.4	1.1	1.1
80°	112.8	43.0	8.2	3.6	2.5	1.4	0.7	0.7	1.4	1.4	1.4
82.5°	52.3	18.3	5.7	3.2	2.5	1.4	0.7	0.7	1.1	1.4	1.4
85°	30.1	8.6	4.7	3.6	2.5	1.4	0.7	0.7	1.1	1.4	1.4
87.5°	12.2	4.3	4.3	3.6	2.9	1.8	0.7	0.7	0.7	1.1	1.1
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)