

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: P458581

Luminaire Tested: **GALN-SA1C-735-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458581  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5451 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

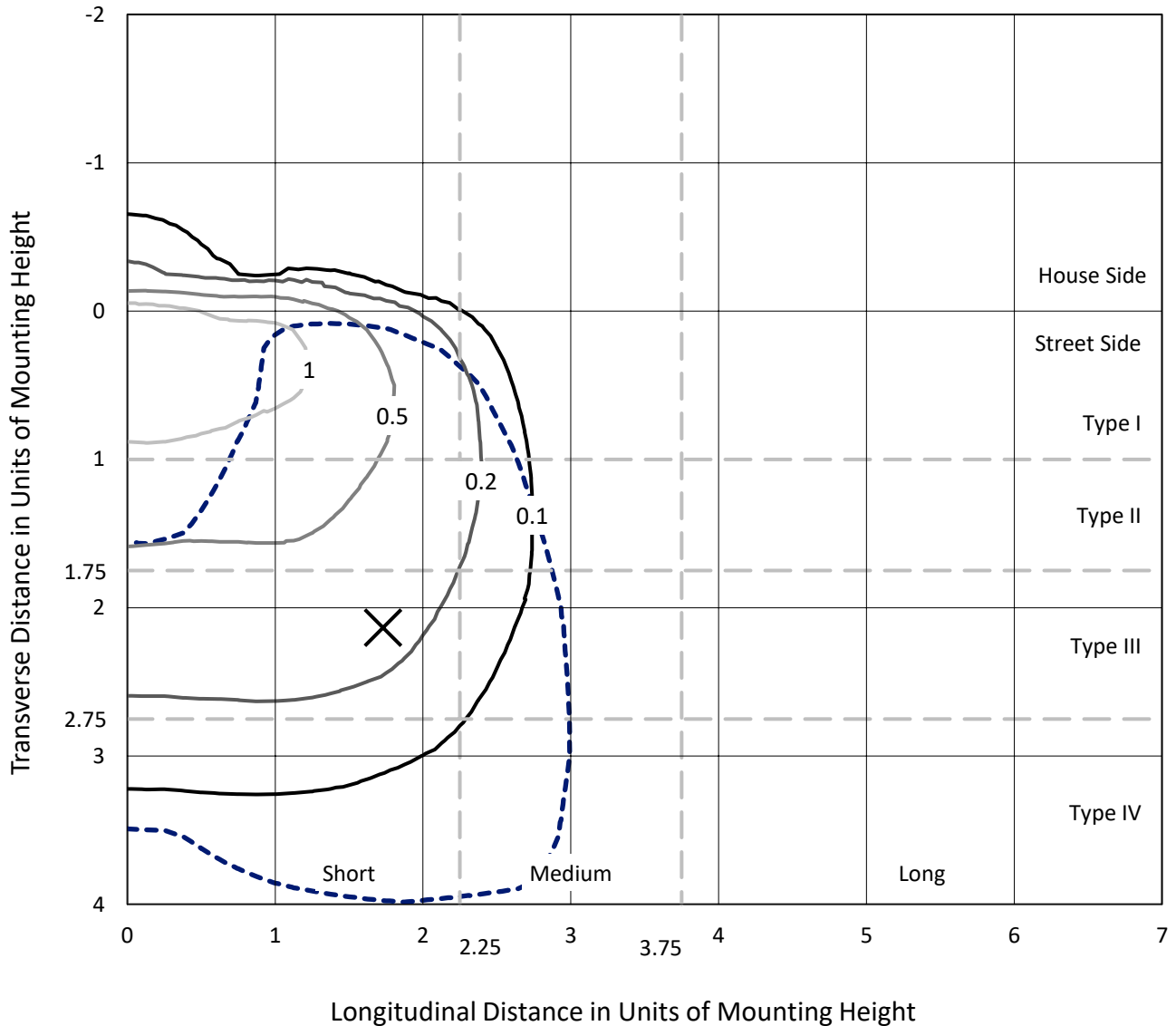
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

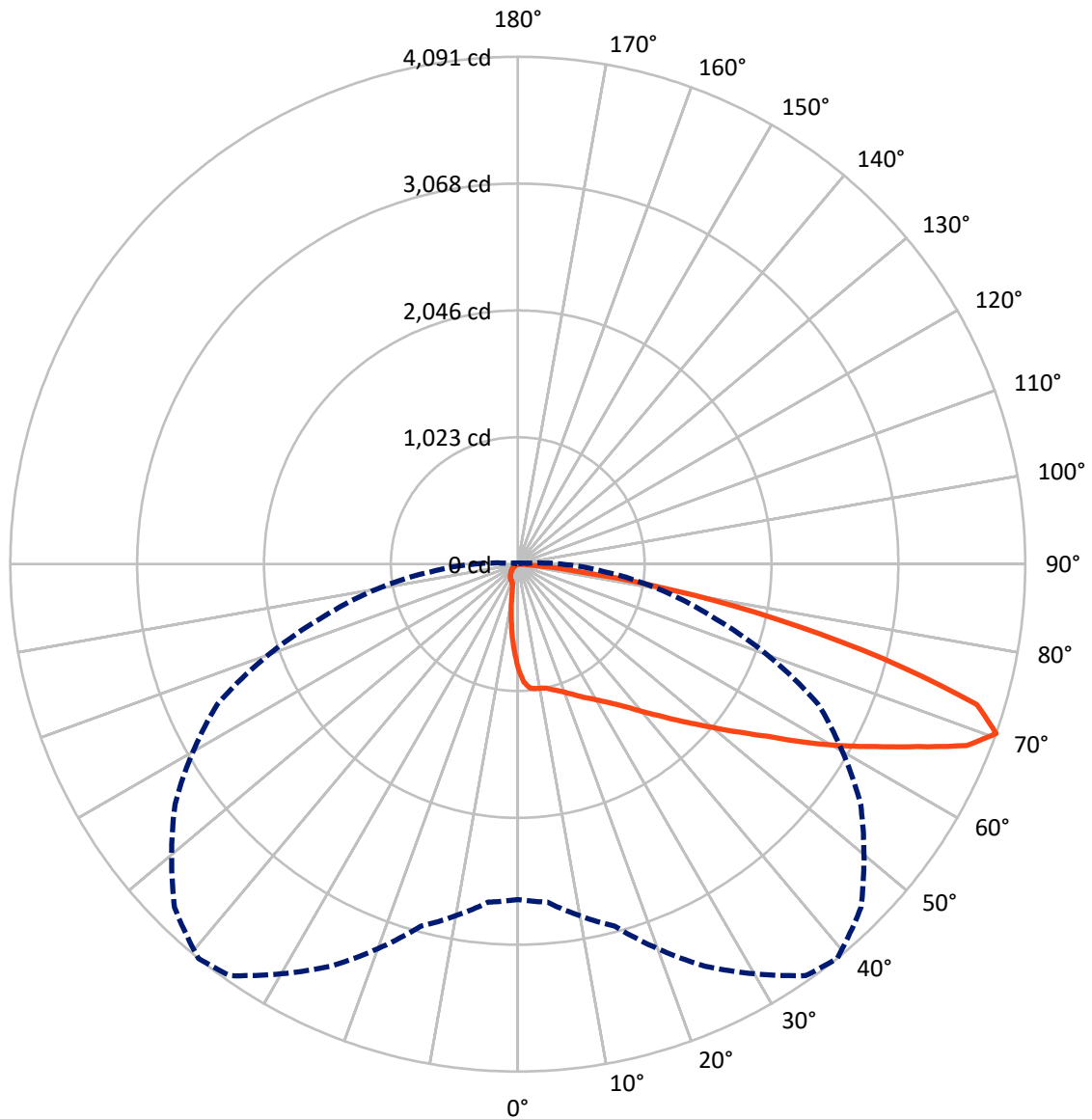
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	355.4	0.0	355.4
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	5095.6	0.0	5095.6
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	5451.0	0.0	5451.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	1.3
10°-20°	188.5	3.5
20°-30°	315.8	5.8
30°-40°	489.8	9.0
40°-50°	776.2	14.2
50°-60°	1137.8	20.9
60°-70°	1458.4	26.8
70°-80°	916.4	16.8
80°-90°	95.5	1.8
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°	5451.0	100.0
0°-180°	5451.0	100.0

**Coefficient of Utilization**



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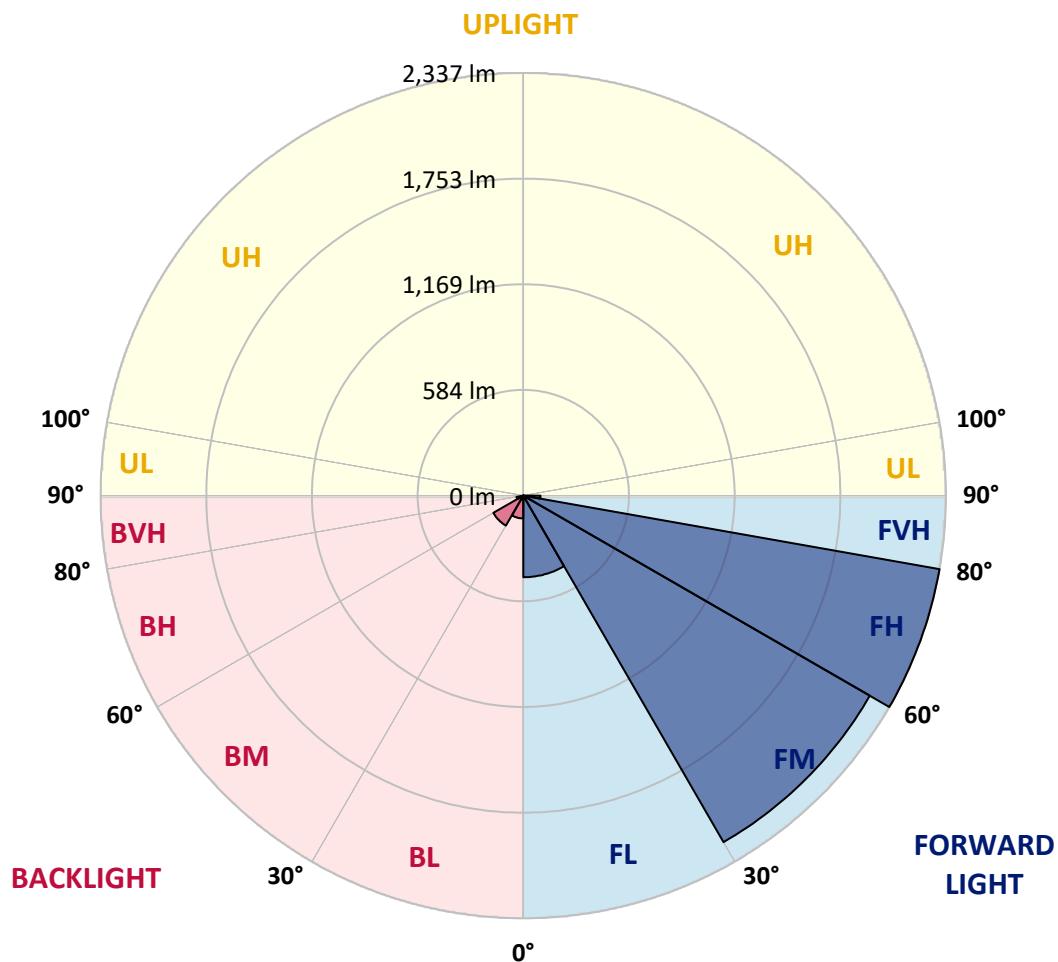
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.0	8.3			
FM (30°-60°)	2212.5	40.6			
FH (60°-80°)	2337.2	42.9			G2/5000
FVH (80°-90°)	94.8	1.7			G1/100
BL (0°-30°)	125.9	2.3	B1/500		
BM (30°-60°)	191.3	3.5	B0/220		
BH (60°-80°)	37.6	0.7	B0/110		G0/110
BVH (80°-90°)	0.7	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	850.5	850.5	850.5	850.5	850.5	850.5	850.5	850.5	850.5	850.5	850.5
2.5°	982.8	979.5	975.1	970.0	955.3	952.7	943.9	925.3	902.9	884.6	859.3
5°	1029.3	1031.1	1027.8	1018.7	1008.1	1001.8	990.8	961.9	933.0	896.0	854.6
7.5°	1039.9	1043.6	1039.6	1030.8	1020.5	1013.9	1005.1	980.2	946.5	904.4	847.6
10°	1038.8	1043.2	1040.7	1032.6	1024.2	1017.9	1008.4	988.6	961.5	917.2	849.8
12.5°	1037.0	1042.8	1042.5	1038.5	1031.5	1026.7	1020.9	1003.3	978.0	935.9	861.9
15°	1031.9	1039.2	1045.8	1049.1	1049.4	1049.4	1042.1	1023.4	999.3	960.4	877.6
17.5°	1034.1	1042.5	1059.0	1068.5	1075.1	1074.4	1066.7	1046.5	1019.8	985.7	894.1
20°	1047.6	1059.0	1082.0	1101.1	1107.7	1105.5	1095.2	1071.8	1041.4	1007.3	910.2
22.5°	1080.9	1091.2	1120.1	1142.5	1147.2	1141.4	1126.7	1094.9	1067.4	1030.8	929.7
25°	1130.8	1142.8	1169.6	1186.4	1186.4	1183.1	1162.6	1125.3	1096.7	1063.4	954.9
27.5°	1191.2	1201.5	1227.8	1242.8	1234.1	1224.5	1204.0	1159.0	1131.5	1104.4	985.3
30°	1252.4	1259.0	1286.8	1293.4	1284.2	1272.2	1250.2	1205.1	1180.9	1160.1	1029.3
32.5°	1310.2	1324.5	1347.6	1346.1	1333.7	1327.8	1307.7	1259.7	1246.1	1243.9	1090.8
35°	1368.1	1379.1	1399.6	1404.8	1393.8	1392.7	1378.0	1342.5	1342.8	1357.1	1186.8
37.5°	1417.9	1427.8	1452.0	1463.4	1465.6	1471.1	1465.2	1441.7	1475.1	1514.3	1313.9
40°	1459.7	1473.6	1504.4	1524.2	1546.9	1567.0	1568.1	1573.2	1640.3	1707.7	1479.8
42.5°	1492.3	1511.7	1556.4	1593.0	1645.0	1670.7	1691.2	1719.4	1832.2	1933.0	1675.4
45°	1534.8	1557.1	1612.8	1670.3	1751.6	1793.8	1822.3	1897.8	2057.9	2195.2	1876.2
47.5°	1605.1	1616.8	1673.6	1757.5	1864.5	1924.5	1980.2	2094.5	2300.0	2423.1	2043.2
50°	1695.6	1703.3	1746.1	1862.6	2001.1	2080.2	2181.7	2316.1	2551.3	2612.1	2137.7
52.5°	1795.6	1798.2	1830.4	1978.4	2154.2	2253.8	2367.4	2533.3	2756.0	2746.9	2200.3
55°	1911.7	1908.0	1935.5	2104.0	2335.5	2449.4	2581.7	2755.7	2933.7	2842.5	2236.2
57.5°	2044.7	2034.8	2061.5	2270.7	2567.7	2704.0	2838.4	2947.6	3071.4	2922.7	2253.5
60°	2183.9	2164.1	2196.0	2457.9	2841.4	2970.7	3082.4	3111.7	3216.5	2986.4	2223.8
62.5°	2294.9	2295.2	2354.6	2657.1	3122.7	3235.9	3295.2	3321.6	3341.4	2972.5	2067.7
65°	2468.1	2474.0	2568.8	2933.7	3448.3	3546.5	3587.2	3501.4	3346.9	2799.6	1833.3
67.5°	2646.9	2665.5	2839.2	3314.6	3824.5	3903.6	3851.3	3536.2	3197.4	2405.1	1390.1
70°	2705.1	2735.9	3022.0	3576.9	4050.2	4091.2	3913.9	3374.0	2672.9	1608.0	699.6
72.5°	2478.7	2528.6	2916.8	3481.3	3906.2	3870.7	3501.8	2829.6	1699.3	610.6	213.6
75°	1748.0	1769.9	2424.2	2887.9	3141.7	3041.0	2663.7	1824.2	698.9	171.4	73.3
77.5°	902.6	891.9	1441.7	1916.1	2240.6	2136.2	1744.3	944.3	264.8	71.4	45.4
80°	466.7	474.4	623.8	1004.0	1367.8	1258.6	930.0	437.7	141.0	39.6	34.8
82.5°	261.5	245.4	358.6	438.5	639.6	501.5	356.8	309.9	61.5	23.8	33.0
85°	47.6	49.8	196.7	237.0	222.0	141.0	115.0	207.0	17.9	13.2	23.1
87.5°	0.7	0.7	38.1	68.1	43.2	19.8	36.3	29.7	3.7	5.1	4.0
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°	850.5	850.5	850.5	850.5	850.5	850.5	850.5	850.5	850.5	850.5	850.5
2.5°	846.5	832.6	806.6	780.9	748.3	721.6	703.7	685.0	665.9	667.4	671.8
5°	831.9	807.7	756.4	702.2	650.2	603.3	557.1	515.7	498.9	483.5	484.2
7.5°	817.2	783.1	708.1	623.1	544.3	464.5	406.6	359.0	333.7	314.6	309.2
10°	810.6	765.6	663.7	546.9	435.2	348.0	273.6	234.8	204.8	195.2	197.8
12.5°	813.5	756.8	623.8	478.0	345.1	242.5	190.5	170.7	164.1	163.0	162.3
15°	819.0	750.5	584.6	401.8	253.5	180.2	160.1	156.4	155.7	154.9	155.3
17.5°	826.4	745.0	542.9	330.4	194.5	157.5	151.6	149.8	149.4	149.4	149.4
20°	833.7	738.8	496.3	266.7	162.3	148.7	145.1	144.0	143.6	143.6	143.2
22.5°	842.1	733.3	449.1	209.5	149.4	142.5	139.2	138.5	138.1	137.7	137.7
25°	854.2	726.4	398.9	171.4	141.4	136.6	133.3	132.6	132.2	130.8	131.1
27.5°	870.3	721.2	347.3	148.0	134.1	129.3	127.1	126.0	125.3	124.2	124.5
30°	892.3	716.8	292.3	135.2	125.6	121.6	119.4	118.7	117.9	116.8	116.8
32.5°	930.4	718.7	234.4	124.9	117.9	113.2	111.0	110.3	109.5	108.4	108.4
35°	987.5	729.3	187.5	116.1	108.8	104.0	101.8	101.8	100.7	99.3	98.9
37.5°	1080.9	756.4	150.5	107.7	100.0	95.6	93.0	92.3	91.2	89.0	88.6
40°	1191.2	798.5	126.7	99.3	91.9	87.5	85.3	83.1	80.2	78.0	77.7
42.5°	1329.7	841.8	109.9	90.8	84.2	80.2	77.7	74.0	69.6	66.7	66.3
45°	1474.0	881.3	98.5	83.1	76.9	73.6	70.7	64.8	59.3	55.7	55.3
47.5°	1581.7	888.6	89.4	75.8	70.7	67.4	63.4	56.0	48.7	45.4	44.3
50°	1632.6	853.1	79.9	68.5	64.5	60.8	55.7	47.3	39.2	35.2	34.4
52.5°	1650.5	791.6	72.2	61.9	58.2	53.8	47.6	38.1	30.8	26.7	26.4
55°	1643.2	713.9	65.2	55.7	50.9	45.8	39.6	30.4	22.7	19.4	18.7
57.5°	1604.7	615.0	58.2	49.5	43.6	38.5	31.5	22.7	15.4	12.5	12.1
60°	1501.1	480.2	51.3	42.5	37.0	31.5	24.9	16.1	9.5	7.0	7.0
62.5°	1326.0	356.4	44.7	35.5	31.1	25.3	17.6	10.3	5.1	3.7	3.3
65°	1108.1	263.0	37.4	30.0	26.0	19.8	12.5	6.2	2.6	1.1	0.7
67.5°	773.3	162.3	31.1	24.5	21.2	14.3	7.7	2.6	1.1	0.0	0.0
70°	351.3	77.3	23.8	18.7	16.1	10.3	4.0	1.5	0.7	0.0	0.0
72.5°	109.2	40.7	16.8	13.6	11.0	6.6	2.2	1.1	0.7	0.0	0.0
75°	50.5	26.0	10.6	7.3	6.2	3.3	1.5	0.7	0.4	0.0	0.0
77.5°	37.7	20.1	6.2	4.0	3.3	2.2	1.1	0.7	0.4	0.0	0.0
80°	33.0	10.3	3.7	2.6	1.8	1.5	0.7	0.4	0.0	0.0	0.0
82.5°	29.7	5.1	2.2	1.5	1.1	0.7	0.4	0.4	0.0	0.0	0.0
85°	16.1	2.9	1.5	1.1	0.7	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	2.9	1.5	1.1	0.7	0.7	0.4	0.4	0.4	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

(END OF REPORT)