

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: P450722

Luminaire Tested: **GALN-SA1C-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450722
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-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 5852 lumens
Efficiency: N/A
Efficacy: 102.7 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

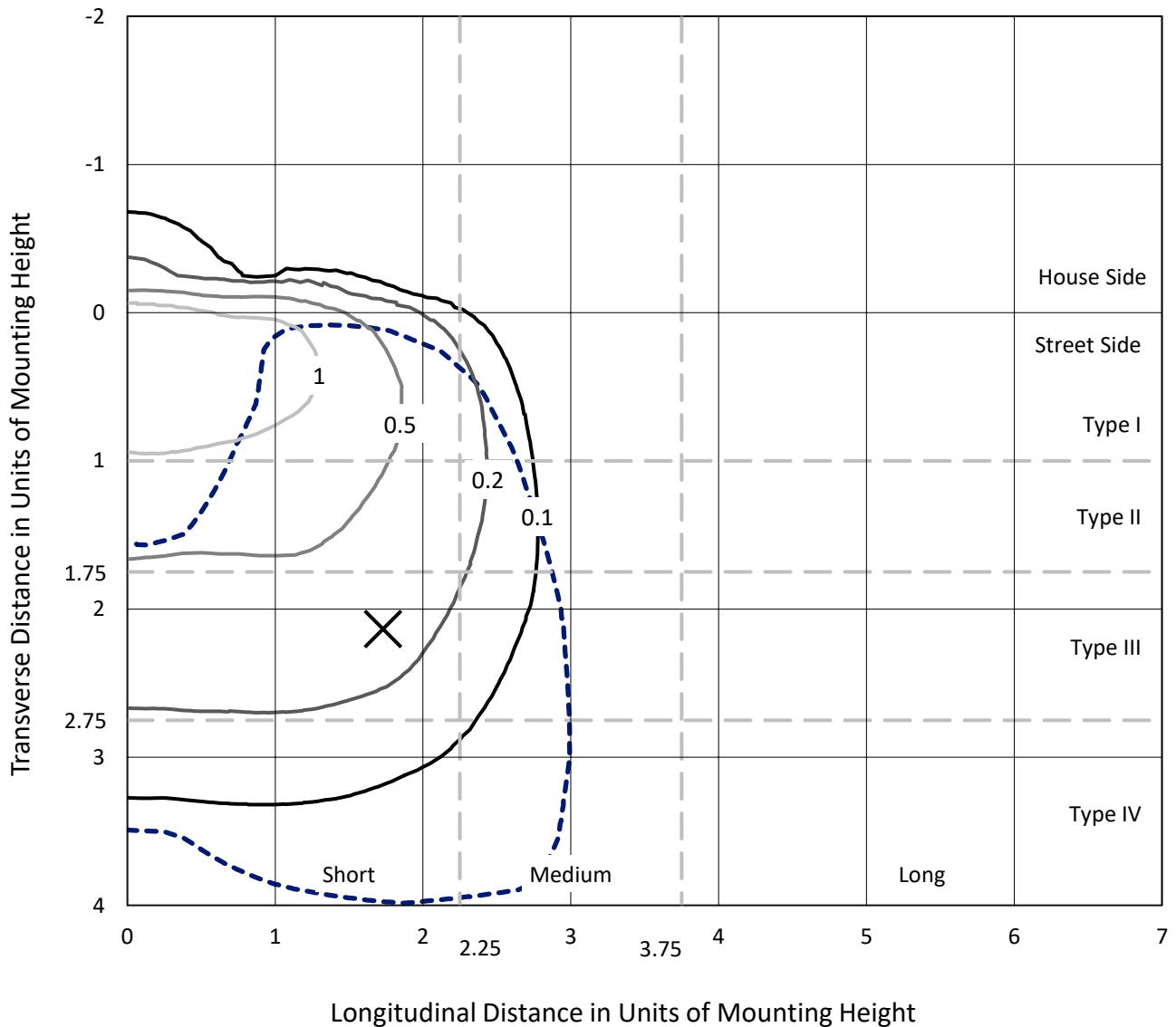
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

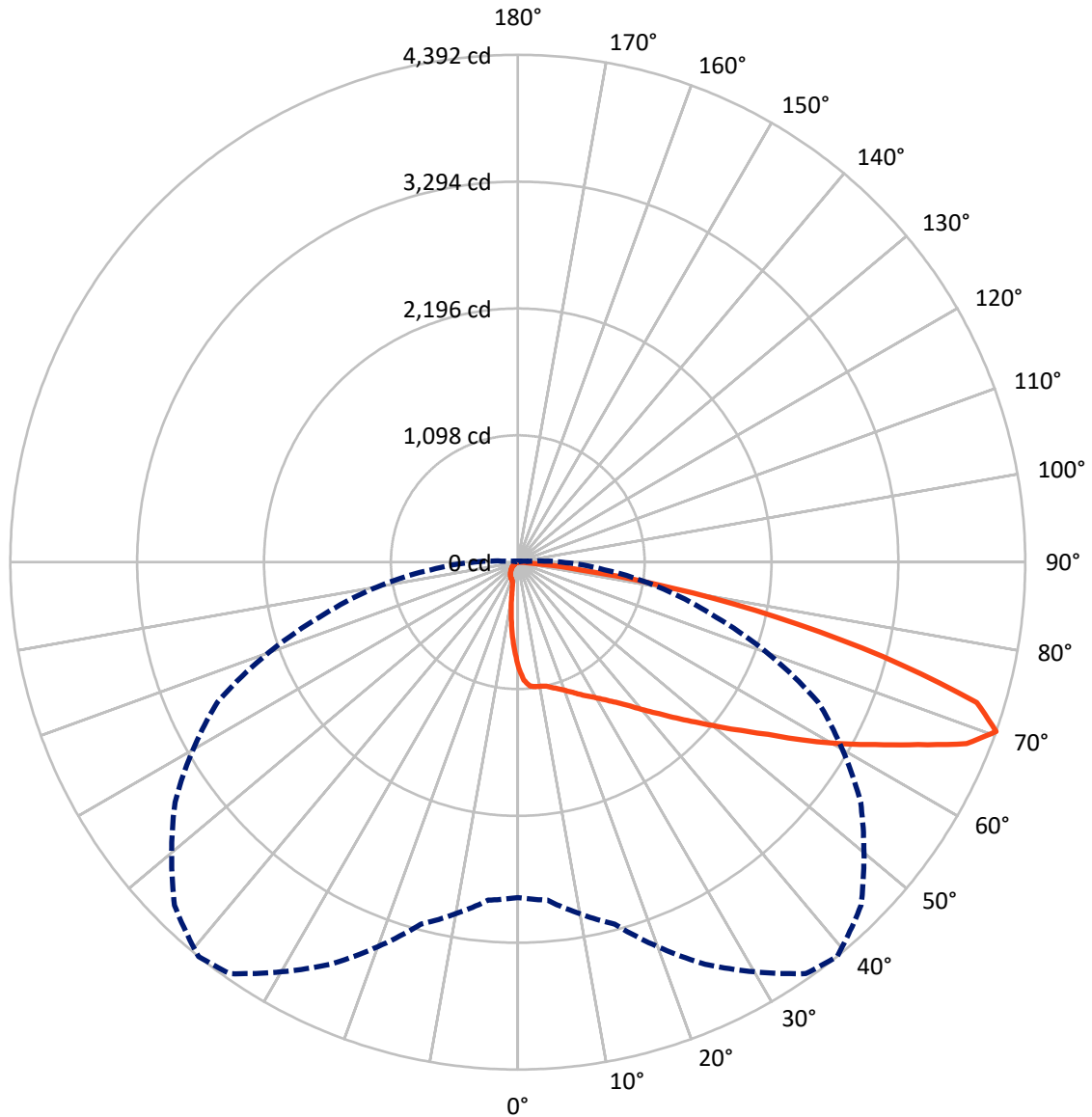
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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
House Side	Lumens	381.6	0.0	381.6
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	5470.4	0.0	5470.4
	% Fixture	93.5	0.0	93.5
Total	Lumens	5852.0	0.0	5852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.3
10°-20°	202.4	3.5
20°-30°	339.1	5.8
30°-40°	525.8	9.0
40°-50°	833.3	14.2
50°-60°	1221.5	20.9
60°-70°	1565.7	26.8
70°-80°	983.8	16.8
80°-90°	102.5	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°	5852.0	100.0
0°-180°	5852.0	100.0

Coefficient of Utilization



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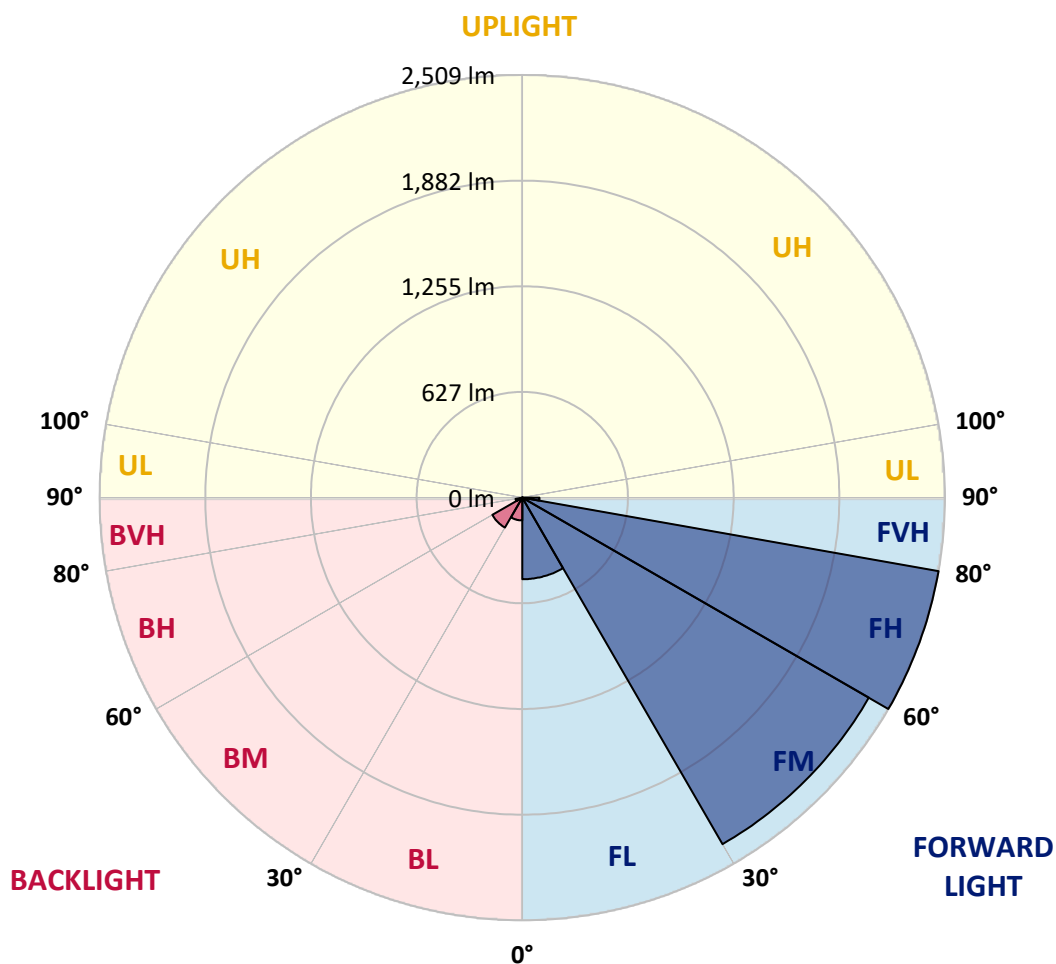
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.2	8.3			
FM (30°-60°)	2375.3	40.6			
FH (60°-80°)	2509.2	42.9			G2/5000
FVH (80°-90°)	101.7	1.7			G2/225
BL (0°-30°)	135.1	2.3	B1/500		
BM (30°-60°)	205.4	3.5	B0/220		
BH (60°-80°)	40.4	0.7	B0/110		G0/110
BVH (80°-90°)	0.8	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°	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1
2.5°	1055.1	1051.5	1046.8	1041.3	1025.6	1022.8	1013.4	993.3	969.3	949.7	922.6
5°	1105.0	1107.0	1103.4	1093.6	1082.2	1075.5	1063.7	1032.7	1001.6	961.9	917.4
7.5°	1116.4	1120.4	1116.0	1106.6	1095.6	1088.5	1079.1	1052.3	1016.1	970.9	910.0
10°	1115.2	1120.0	1117.2	1108.6	1099.5	1092.8	1082.6	1061.4	1032.3	984.7	912.3
12.5°	1113.3	1119.6	1119.2	1114.8	1107.4	1102.3	1096.0	1077.1	1050.0	1004.7	925.3
15°	1107.8	1115.6	1122.7	1126.3	1126.6	1126.6	1118.8	1098.7	1072.8	1031.1	942.2
17.5°	1110.1	1119.2	1136.9	1147.1	1154.2	1153.4	1145.1	1123.5	1094.8	1058.2	959.9
20°	1124.7	1136.9	1161.6	1182.1	1189.2	1186.8	1175.8	1150.6	1118.0	1081.4	977.2
22.5°	1160.5	1171.5	1202.5	1226.5	1231.6	1225.3	1209.6	1175.4	1145.9	1106.6	998.1
25°	1213.9	1226.9	1255.6	1273.7	1273.7	1270.2	1248.2	1208.0	1177.4	1141.6	1025.2
27.5°	1278.8	1289.8	1318.2	1334.3	1324.8	1314.6	1292.6	1244.2	1214.7	1185.6	1057.8
30°	1344.5	1351.6	1381.5	1388.5	1378.7	1365.7	1342.1	1293.8	1267.8	1245.4	1105.0
32.5°	1406.6	1422.0	1446.7	1445.2	1431.8	1425.5	1403.9	1352.4	1337.8	1335.5	1171.1
35°	1468.8	1480.6	1502.6	1508.1	1496.3	1495.1	1479.4	1441.2	1441.6	1457.0	1274.1
37.5°	1522.2	1532.9	1558.8	1571.0	1573.4	1579.3	1573.0	1547.8	1583.6	1625.7	1410.6
40°	1567.1	1582.0	1615.1	1636.3	1660.7	1682.3	1683.5	1689.0	1760.9	1833.3	1588.7
42.5°	1602.1	1622.9	1670.9	1710.2	1766.1	1793.6	1815.6	1845.9	1967.0	2075.1	1798.7
45°	1647.7	1671.7	1731.5	1793.2	1880.5	1925.7	1956.4	2037.4	2209.2	2356.7	2014.2
47.5°	1723.2	1735.8	1796.7	1886.8	2001.6	2066.1	2125.9	2248.6	2469.2	2601.3	2193.5
50°	1820.3	1828.6	1874.6	1999.6	2148.3	2233.2	2342.2	2486.5	2738.9	2804.2	2295.0
52.5°	1927.7	1930.4	1965.0	2123.9	2312.7	2419.6	2541.5	2719.7	2958.8	2948.9	2362.2
55°	2052.3	2048.4	2077.9	2258.8	2507.3	2629.6	2771.6	2958.4	3149.5	3051.6	2400.8
57.5°	2195.1	2184.5	2213.2	2437.7	2756.6	2902.9	3047.2	3164.4	3297.4	3137.7	2419.2
60°	2344.5	2323.3	2357.5	2638.7	3050.4	3189.2	3309.1	3340.6	3453.1	3206.1	2387.4
62.5°	2463.7	2464.1	2527.8	2852.6	3352.4	3473.9	3537.6	3565.9	3587.2	3191.2	2219.9
65°	2649.7	2656.0	2757.8	3149.5	3702.0	3807.4	3851.0	3759.0	3593.1	3005.6	1968.2
67.5°	2841.6	2861.6	3048.0	3558.5	4105.9	4190.8	4134.6	3796.4	3432.6	2582.0	1492.4
70°	2904.1	2937.1	3244.3	3840.0	4348.1	4392.1	4201.8	3622.2	2869.5	1726.3	751.1
72.5°	2661.1	2714.6	3131.4	3737.4	4193.6	4155.4	3759.4	3037.8	1824.3	655.5	229.3
75°	1876.6	1900.2	2602.5	3100.3	3372.9	3264.7	2859.7	1958.4	750.3	184.0	78.6
77.5°	969.0	957.5	1547.8	2057.1	2405.5	2293.4	1872.6	1013.8	284.3	76.7	48.8
80°	501.0	509.3	669.7	1077.9	1468.4	1351.2	998.4	469.9	151.4	42.5	37.4
82.5°	280.8	263.5	385.0	470.7	686.6	538.4	383.0	332.7	66.1	25.6	35.4
85°	51.1	53.5	211.2	254.4	238.3	151.4	123.5	222.2	19.3	14.2	24.8
87.5°	0.8	0.8	40.9	73.1	46.4	21.2	38.9	31.9	3.9	5.5	4.3
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°	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1
2.5°	908.8	893.8	865.9	838.4	803.4	774.7	755.4	735.4	714.9	716.5	721.2
5°	893.1	867.1	812.0	753.8	698.0	647.7	598.1	553.7	535.6	519.1	519.9
7.5°	877.3	840.8	760.1	668.9	584.4	498.6	436.5	385.4	358.2	337.8	331.9
10°	870.2	821.9	712.6	587.1	467.2	373.6	293.8	252.1	219.8	209.6	212.4
12.5°	873.4	812.4	669.7	513.2	370.4	260.3	204.5	183.3	176.2	175.0	174.2
15°	879.3	805.8	627.6	431.4	272.1	193.5	171.8	167.9	167.1	166.3	166.7
17.5°	887.2	799.9	582.8	354.7	208.8	169.1	162.8	160.8	160.4	160.4	160.4
20°	895.0	793.2	532.8	286.3	174.2	159.7	155.7	154.5	154.2	154.2	153.8
22.5°	904.1	787.3	482.1	224.9	160.4	153.0	149.4	148.6	148.3	147.9	147.9
25°	917.0	779.8	428.2	184.0	151.8	146.7	143.1	142.4	142.0	140.4	140.8
27.5°	934.3	774.3	372.8	158.9	143.9	138.8	136.5	135.3	134.5	133.3	133.7
30°	957.9	769.6	313.8	145.1	134.9	130.6	128.2	127.4	126.6	125.4	125.4
32.5°	998.8	771.5	251.7	134.1	126.6	121.5	119.2	118.4	117.6	116.4	116.4
35°	1060.2	782.9	201.3	124.7	116.8	111.7	109.3	109.3	108.1	106.6	106.2
37.5°	1160.5	812.0	161.6	115.6	107.4	102.6	99.9	99.1	97.9	95.6	95.2
40°	1278.8	857.3	136.1	106.6	98.7	94.0	91.6	89.3	86.1	83.8	83.4
42.5°	1427.5	903.7	118.0	97.5	90.4	86.1	83.4	79.4	74.7	71.6	71.2
45°	1582.4	946.1	105.8	89.3	82.6	79.0	75.9	69.6	63.7	59.8	59.4
47.5°	1698.0	954.0	96.0	81.4	75.9	72.4	68.0	60.2	52.3	48.8	47.6
50°	1752.7	915.9	85.7	73.5	69.2	65.3	59.8	50.7	42.1	37.8	37.0
52.5°	1772.0	849.8	77.5	66.5	62.5	57.8	51.1	40.9	33.0	28.7	28.3
55°	1764.1	766.4	70.0	59.8	54.7	49.2	42.5	32.6	24.4	20.8	20.1
57.5°	1722.8	660.3	62.5	53.1	46.8	41.3	33.8	24.4	16.5	13.4	13.0
60°	1611.5	515.5	55.1	45.6	39.7	33.8	26.7	17.3	10.2	7.5	7.5
62.5°	1423.5	382.6	48.0	38.1	33.4	27.1	18.9	11.0	5.5	3.9	3.5
65°	1189.6	282.3	40.1	32.2	27.9	21.2	13.4	6.7	2.8	1.2	0.8
67.5°	830.1	174.2	33.4	26.3	22.8	15.3	8.3	2.8	1.2	0.0	0.0
70°	377.1	83.0	25.6	20.1	17.3	11.0	4.3	1.6	0.8	0.0	0.0
72.5°	117.2	43.7	18.1	14.6	11.8	7.1	2.4	1.2	0.8	0.0	0.0
75°	54.3	27.9	11.4	7.9	6.7	3.5	1.6	0.8	0.4	0.0	0.0
77.5°	40.5	21.6	6.7	4.3	3.5	2.4	1.2	0.8	0.4	0.0	0.0
80°	35.4	11.0	3.9	2.8	2.0	1.6	0.8	0.4	0.0	0.0	0.0
82.5°	31.9	5.5	2.4	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0
85°	17.3	3.1	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	3.1	1.6	1.2	0.8	0.8	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)