

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: P458588

Luminaire Tested: **GALN-SA1C-735-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
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-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4954 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

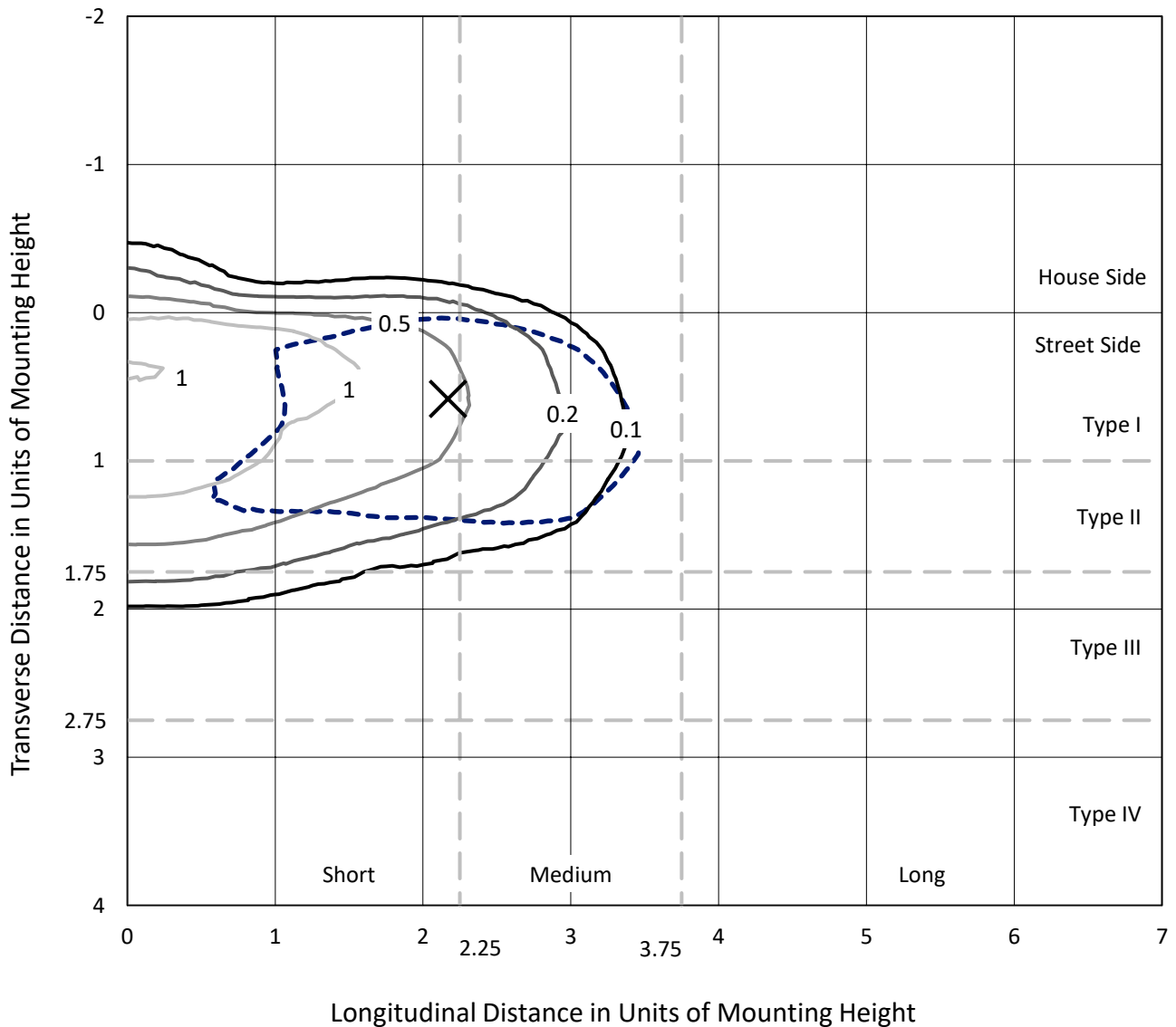
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458588  
 CATALOG NUMBER: GALN-SA1C-735-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

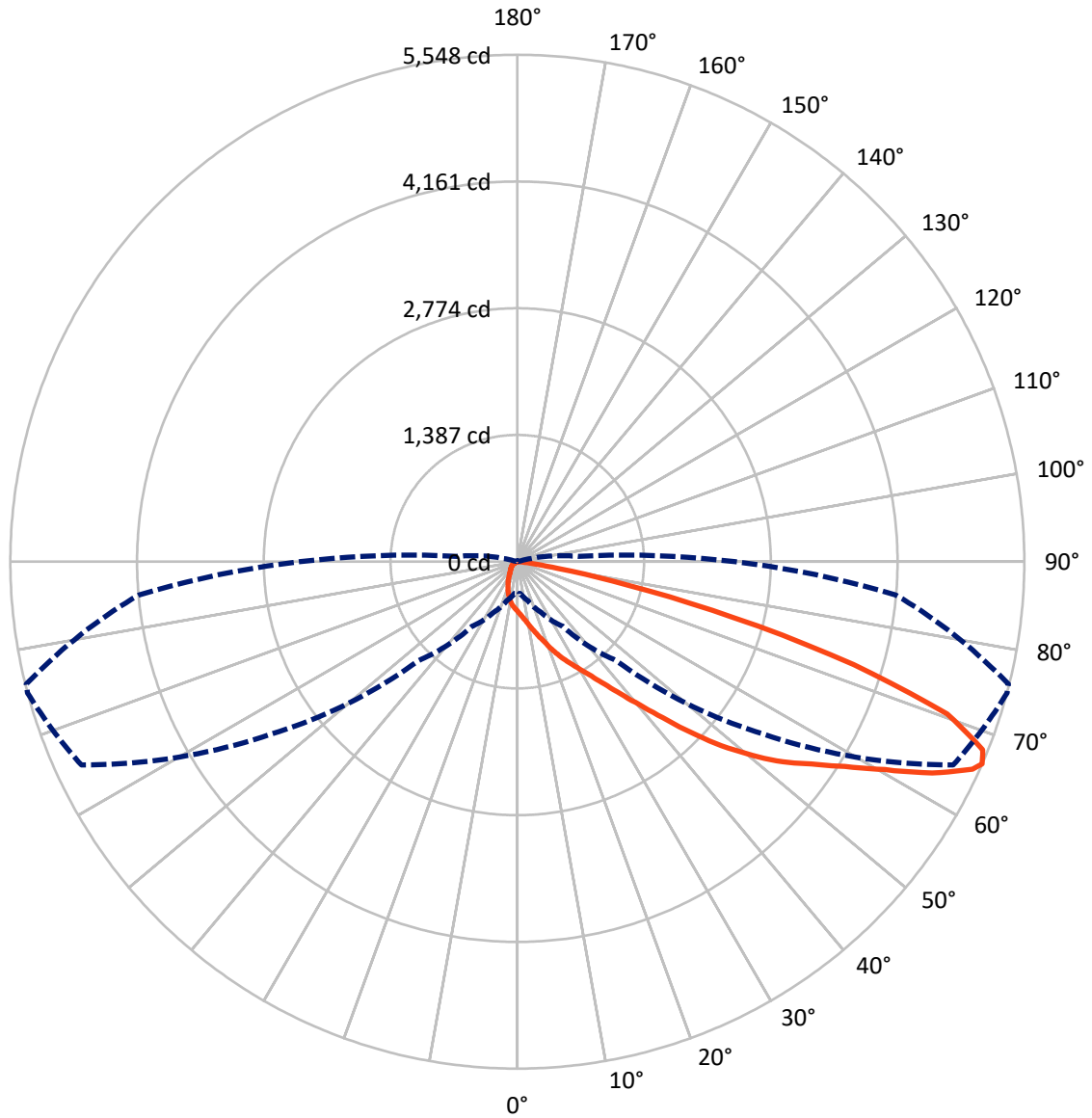
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P458588  
CATALOG NUMBER: GALN-SA1C-735-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P458588

CATALOG NUMBER: GALN-SA1C-735-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	305.8	0.0	305.8
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	4648.2	0.0	4648.2
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	4954.0	0.0	4954.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.3	1.1
10°-20°	153.8	3.1
20°-30°	265.6	5.4
30°-40°	479.0	9.7
40°-50°	865.3	17.5
50°-60°	1349.1	27.2
60°-70°	1281.6	25.9
70°-80°	480.3	9.7
80°-90°	27.1	0.5
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°	4954.0	100.0
0°-180°	4954.0	100.0



REPORT NUMBER: P458588

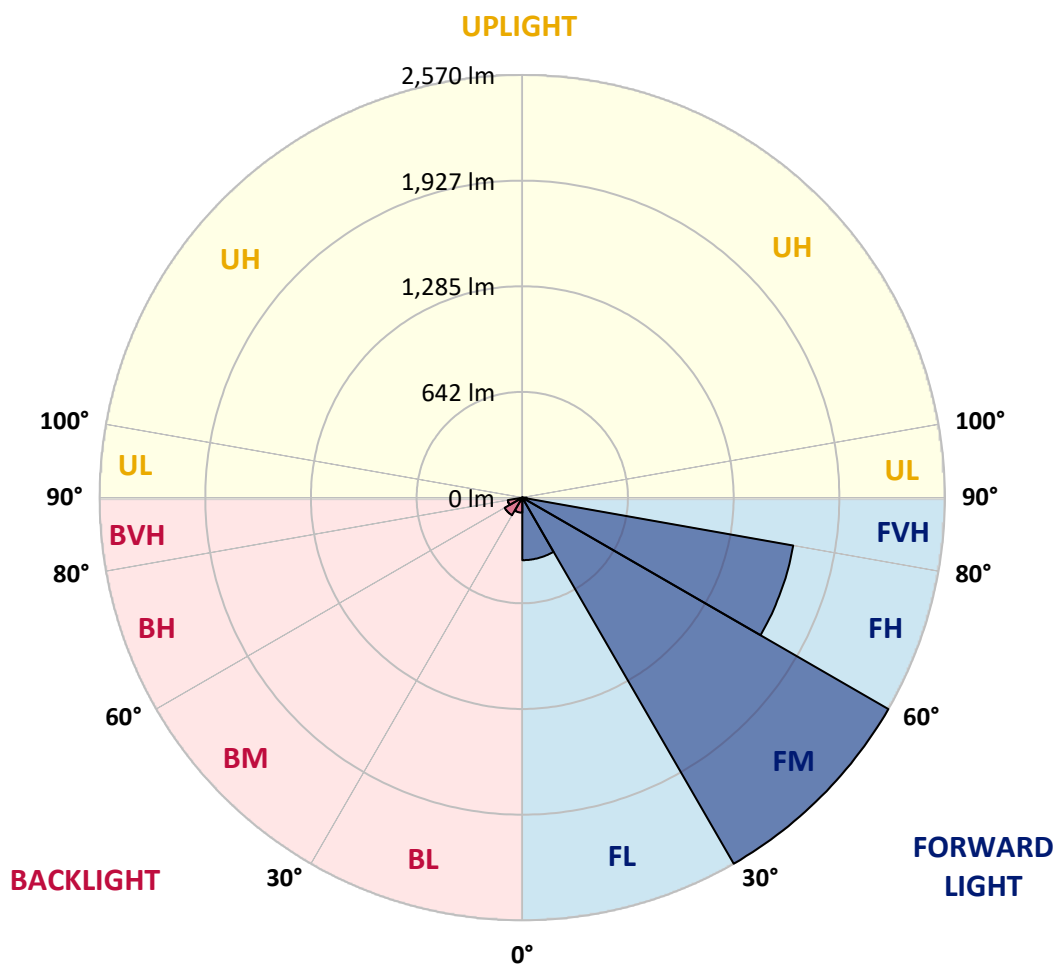
CATALOG NUMBER: GALN-SA1C-735-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.3	7.7			
FM (30°-60°)	2569.6	51.9			
FH (60°-80°)	1672.6	33.8			G1/1800
FVH (80°-90°)	25.7	0.5			G1/100
BL (0°-30°)	91.3	1.8	B0/110		
BM (30°-60°)	123.8	2.5	B0/220		
BH (60°-80°)	89.3	1.8	B0/110		G0/110
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Short





REPORT NUMBER: P458588  
 CATALOG NUMBER: GALN-SA1C-735-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8
2.5°	647.3	639.2	641.8	638.1	629.7	617.2	606.2	590.5	574.7	572.2	554.6
5°	732.6	730.4	727.5	716.9	711.0	692.0	669.2	642.1	609.5	603.7	571.8
7.5°	790.9	789.8	791.2	785.7	780.6	763.4	739.2	702.2	651.7	648.4	595.2
10°	809.9	812.8	818.3	827.1	835.2	829.7	811.4	765.2	706.2	696.7	622.0
12.5°	798.9	802.2	815.4	838.8	864.9	879.9	872.5	838.8	764.1	756.4	652.0
15°	770.7	774.7	793.4	829.7	876.2	918.7	937.0	912.8	831.5	819.1	688.3
17.5°	729.0	734.8	761.6	809.5	873.3	946.5	998.2	990.1	903.3	891.6	727.9
20°	697.4	701.8	724.6	779.5	860.8	961.9	1056.4	1079.1	992.0	971.8	774.4
22.5°	718.3	719.8	727.5	760.5	838.5	966.0	1107.7	1171.8	1086.1	1068.2	822.7
25°	820.5	805.9	798.2	790.9	833.7	962.3	1154.2	1268.5	1179.9	1160.8	870.7
27.5°	981.7	975.1	936.3	884.3	874.4	967.1	1185.0	1360.1	1268.2	1247.6	917.6
30°	1157.2	1145.8	1122.0	1045.8	969.2	1000.8	1207.3	1449.1	1372.6	1345.4	960.5
32.5°	1318.3	1325.7	1290.1	1211.7	1123.1	1072.5	1236.3	1546.2	1492.3	1458.6	1010.3
35°	1506.3	1520.9	1466.3	1391.2	1287.6	1202.2	1292.7	1655.7	1644.4	1601.9	1087.2
37.5°	1697.1	1705.9	1672.6	1567.1	1473.7	1367.1	1398.9	1790.9	1831.5	1795.3	1179.1
40°	1857.5	1869.6	1845.1	1751.3	1651.7	1557.9	1553.1	1938.1	2054.3	2016.9	1316.1
42.5°	1980.3	1989.4	1990.1	1923.8	1834.1	1791.6	1749.9	2126.0	2333.4	2290.2	1475.1
45°	2135.2	2148.4	2140.7	2095.6	2028.6	2020.9	1999.3	2353.2	2667.5	2612.9	1681.4
47.5°	2374.8	2383.6	2364.5	2311.4	2243.3	2255.4	2242.5	2607.7	3008.1	2961.2	1894.9
50°	2541.1	2555.7	2582.8	2604.1	2554.6	2509.9	2471.8	2845.5	3331.6	3289.4	2113.2
52.5°	2539.2	2563.4	2649.1	2756.1	2864.2	2850.6	2741.1	3108.1	3640.4	3588.3	2318.4
55°	2368.2	2415.1	2541.1	2730.8	3030.1	3179.2	3129.4	3412.2	3907.0	3871.9	2556.1
57.5°	2015.1	2043.6	2218.7	2483.9	2937.4	3333.8	3579.2	3824.3	4226.8	4210.3	2925.3
60°	1355.3	1368.2	1593.4	1921.3	2500.8	3179.5	3908.9	4322.8	4620.6	4612.5	3356.5
62.5°	776.6	782.1	945.4	1222.0	1779.5	2694.6	3936.7	4937.8	5092.8	5097.2	3855.4
65°	418.0	420.9	552.8	717.2	1082.8	1920.6	3540.0	5274.8	5474.5	5482.9	4164.6
66°	360.8	346.9	439.9	611.4	861.6	1528.6	3289.1	5262.7	5547.7	5538.6	4153.6
67.5°	274.4	286.8	351.3	470.0	638.5	1086.8	2715.4	5028.7	5492.0	5463.5	3984.7
70°	196.3	201.5	250.2	335.2	434.8	596.3	1735.2	4176.6	4991.7	4953.2	3471.5
72.5°	126.7	132.2	177.3	242.5	314.3	325.6	971.4	3017.6	3848.4	3842.9	2614.3
75°	90.5	95.6	117.2	173.6	236.3	201.5	467.8	2033.7	2446.6	2430.1	1617.2
77.5°	65.6	68.1	78.4	113.6	168.9	144.3	216.9	1086.1	1218.0	1275.5	714.7
80°	37.7	39.9	54.6	69.2	114.3	98.5	103.7	435.9	449.5	427.8	223.4
82.5°	18.7	21.2	32.6	47.3	71.4	66.3	47.6	131.1	138.5	134.8	56.4
85°	4.4	5.5	18.3	31.1	34.8	29.7	23.1	38.5	47.6	46.5	21.6
87.5°	0.4	0.7	6.6	5.5	5.9	9.9	8.1	9.9	15.4	14.3	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458588  
 CATALOG NUMBER: GALN-SA1C-735-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8
2.5°	546.5	539.6	519.4	499.6	483.2	465.9	450.2	441.0	437.4	433.3	435.2
5°	554.2	537.4	496.7	461.5	427.1	397.8	374.4	359.3	352.0	350.9	349.1
7.5°	564.5	535.5	472.5	417.6	372.5	339.9	313.2	291.6	285.0	279.1	274.4
10°	576.9	532.2	442.5	371.4	323.4	282.4	247.3	221.6	208.4	204.8	207.3
12.5°	590.1	526.0	411.0	328.9	273.6	221.2	188.6	175.8	172.2	170.7	171.1
15°	603.3	518.3	378.0	287.9	218.0	176.6	161.5	158.2	156.8	156.0	155.3
17.5°	615.4	505.9	341.0	248.0	176.6	150.9	145.4	142.5	139.6	138.5	136.6
20°	629.7	491.6	307.7	203.3	149.5	136.6	130.0	124.5	120.1	117.2	116.9
22.5°	643.2	473.3	272.9	168.5	136.3	122.7	112.1	106.2	101.1	97.4	98.5
25°	650.6	450.9	241.8	146.9	124.2	108.8	97.1	89.7	84.3	82.4	82.1
27.5°	650.6	423.5	211.4	134.4	113.2	96.3	84.3	77.3	73.6	71.1	71.4
30°	645.4	393.0	183.2	124.9	103.7	85.3	74.0	67.8	64.8	63.0	62.6
32.5°	641.4	364.1	159.0	115.8	93.8	75.8	65.9	61.2	58.2	56.4	56.4
35°	647.6	339.2	140.3	106.6	84.6	68.5	59.7	55.3	52.4	50.9	50.6
37.5°	664.1	316.5	126.0	96.7	76.2	62.3	55.3	50.2	47.3	45.4	44.7
40°	704.8	303.7	115.4	87.5	68.1	57.1	50.2	45.4	41.8	39.9	39.6
42.5°	770.0	304.0	105.1	79.1	61.9	52.7	45.8	40.3	36.3	34.4	34.1
45°	868.1	318.0	97.1	71.1	56.4	48.0	41.0	35.2	31.5	29.7	29.7
47.5°	985.7	345.1	90.1	64.1	51.3	43.6	36.3	30.4	26.7	25.3	25.3
50°	1113.2	380.2	83.2	56.8	46.9	38.8	31.1	26.4	23.4	22.3	22.3
52.5°	1243.2	422.7	76.2	50.9	42.1	33.7	26.7	23.4	20.9	20.1	19.8
55°	1413.9	476.9	68.9	44.7	37.0	28.9	23.8	20.5	17.6	16.5	16.1
57.5°	1676.6	558.6	60.8	39.2	30.4	24.2	20.5	17.2	13.9	12.1	11.7
60°	1993.4	658.3	52.4	34.4	24.5	19.8	16.5	13.2	10.3	8.1	7.7
62.5°	2290.2	721.6	44.3	28.9	19.4	15.0	11.7	9.9	7.3	5.1	4.8
65°	2421.3	700.4	36.6	23.4	15.4	10.6	7.7	7.0	4.4	2.2	1.8
66°	2377.7	668.9	33.7	21.2	13.9	9.2	6.6	5.9	3.3	1.1	1.1
67.5°	2249.1	594.5	29.3	18.3	12.1	7.3	5.1	4.4	1.8	0.4	0.0
70°	1927.1	481.0	23.1	13.6	8.8	5.1	2.9	2.2	1.1	0.0	0.0
72.5°	1480.2	358.2	18.3	10.3	6.2	2.9	1.5	0.7	1.1	0.0	0.0
75°	907.0	204.8	14.3	7.7	4.0	1.8	1.1	0.0	1.1	0.4	0.0
77.5°	402.6	91.9	9.5	5.1	2.9	1.5	0.7	0.0	0.7	0.4	0.0
80°	101.8	30.0	5.5	3.7	2.2	1.1	0.4	0.0	0.7	0.7	0.4
82.5°	27.8	11.0	4.0	2.9	1.8	1.1	0.4	0.0	0.7	0.7	0.7
85°	11.0	5.1	3.7	2.9	2.2	1.1	0.4	0.0	0.7	0.7	0.7
87.5°	5.1	3.7	3.7	3.3	2.6	1.1	0.4	0.0	0.7	0.4	0.7
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)