

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: P452212

Luminaire Tested: **GALN-SA3A-827-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452212  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7368 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

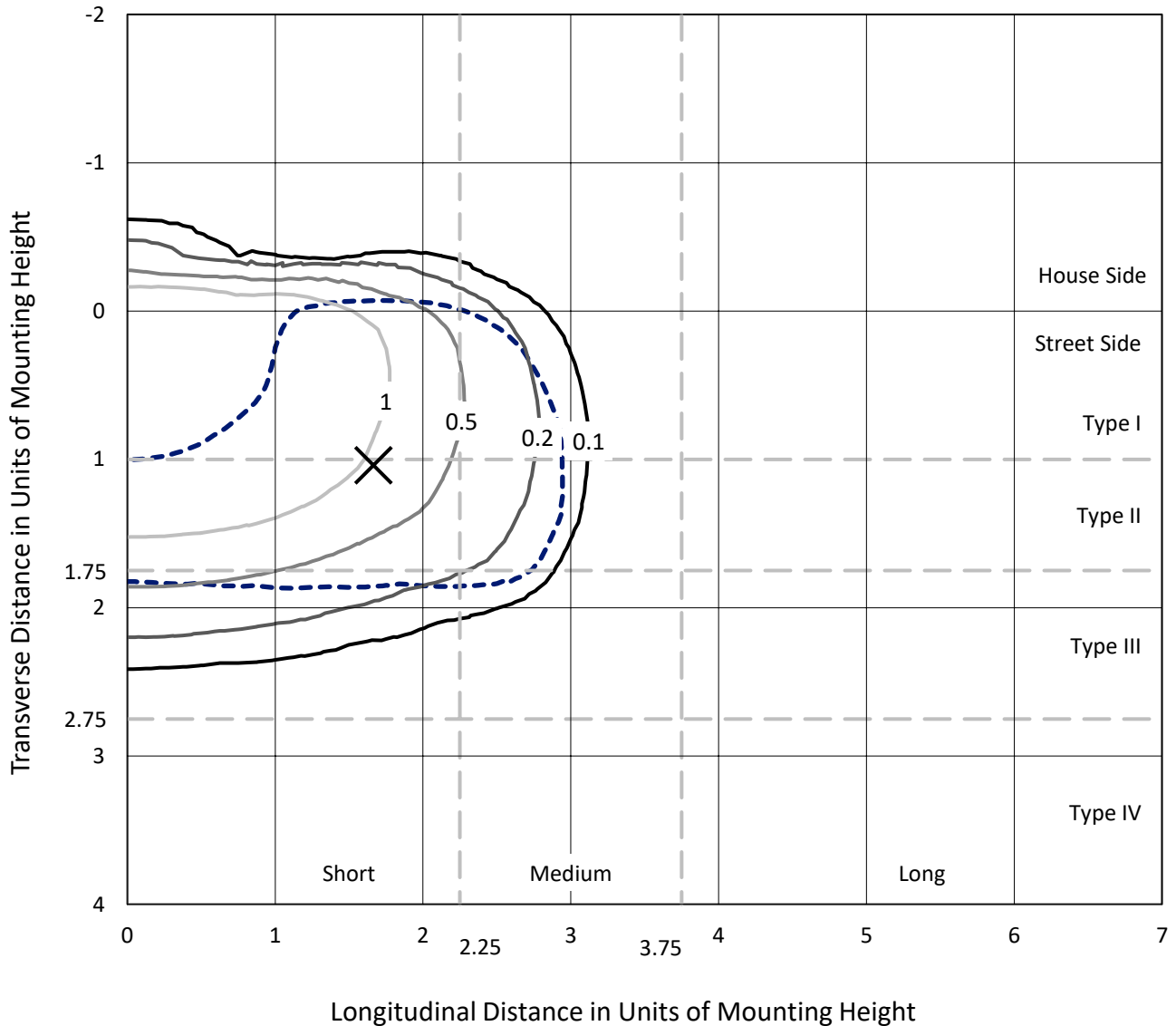
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452212  
 CATALOG NUMBER: GALN-SA3A-827-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

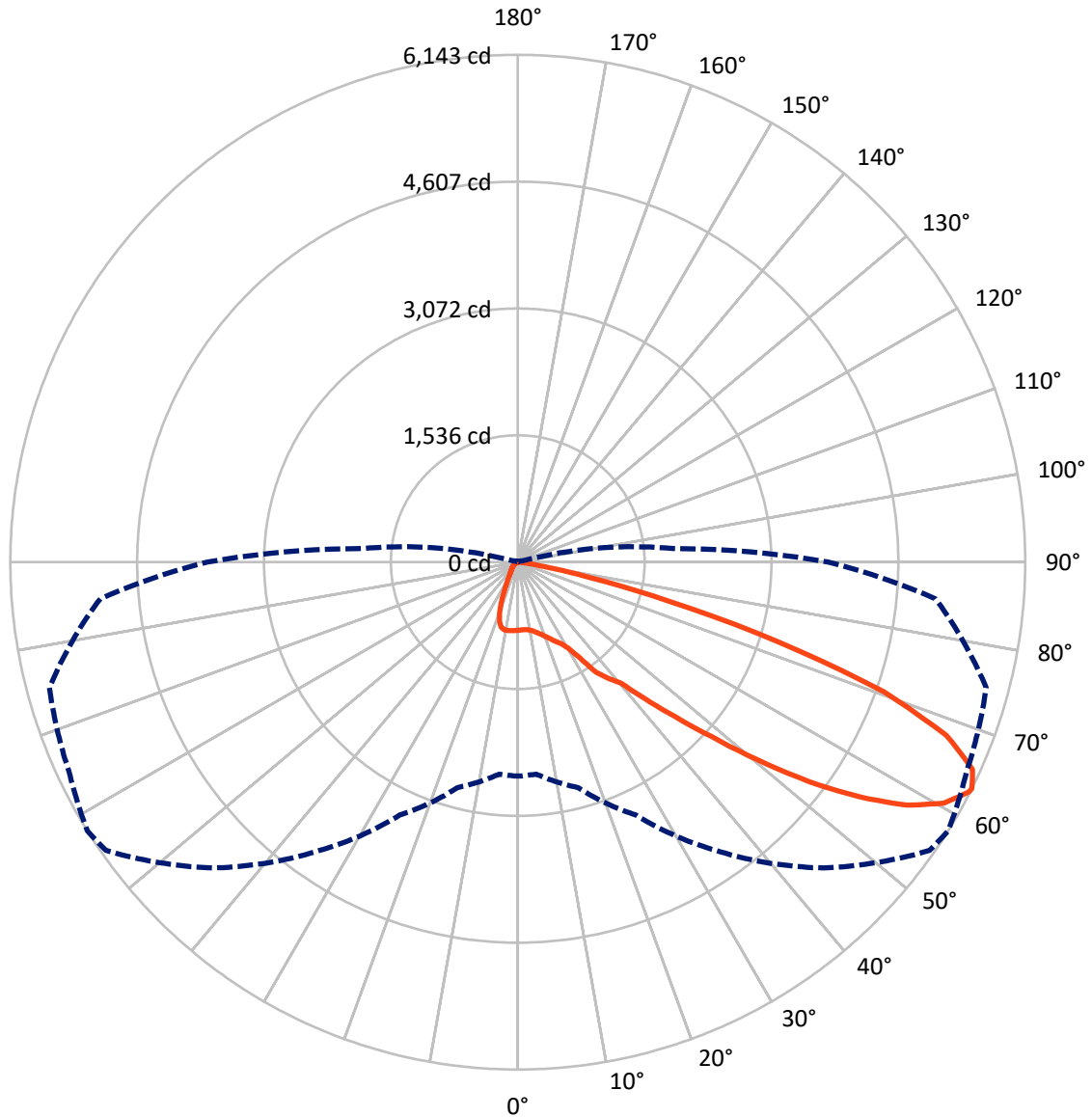
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P452212  
CATALOG NUMBER: GALN-SA3A-827-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P452212

CATALOG NUMBER: GALN-SA3A-827-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	762.9	0.0	762.9
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	6605.1	0.0	6605.1
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	7368.0	0.0	7368.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.2	1.0
10°-20°	210.3	2.9
20°-30°	365.0	5.0
30°-40°	670.8	9.1
40°-50°	1262.7	17.1
50°-60°	2159.7	29.3
60°-70°	2068.0	28.1
70°-80°	527.3	7.2
80°-90°	27.0	0.4
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°	7368.0	100.0
0°-180°	7368.0	100.0



REPORT NUMBER: P452212

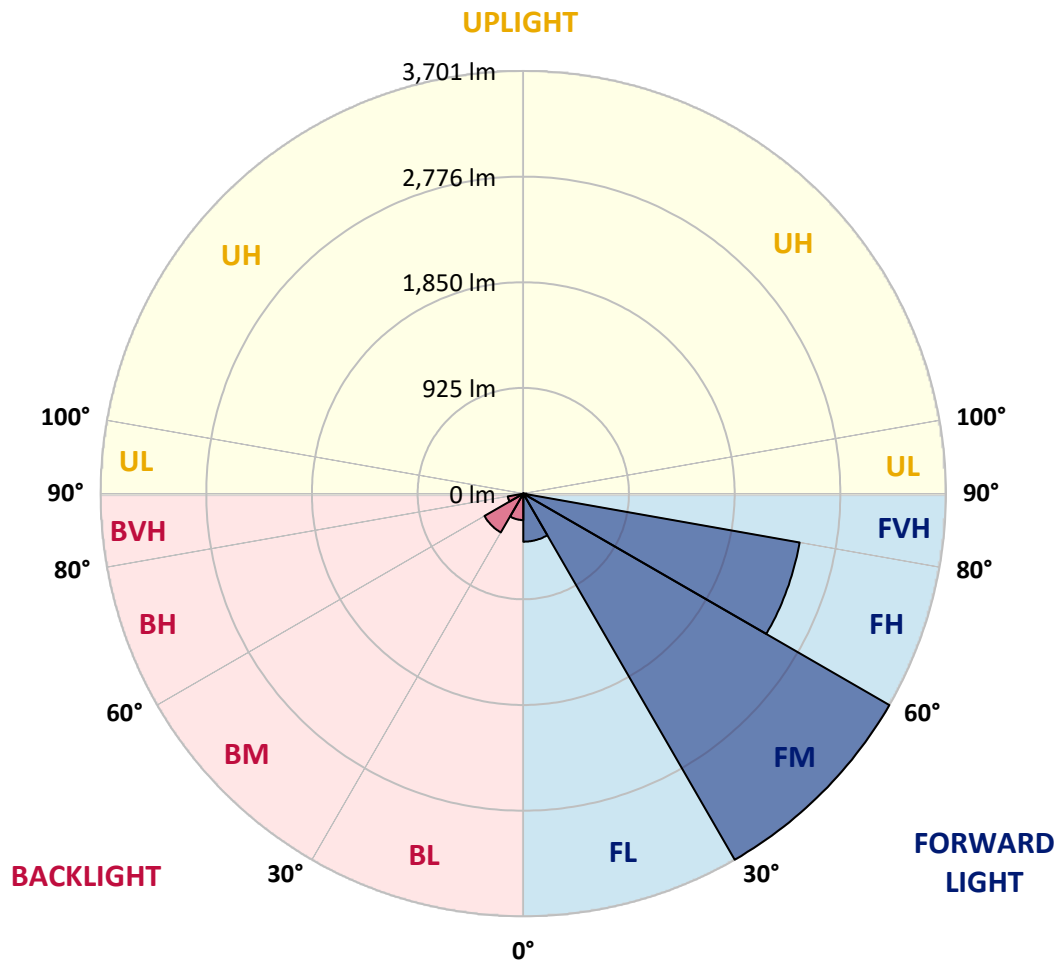
CATALOG NUMBER: GALN-SA3A-827-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.2	5.7			
FM (30°-60°)	3700.8	50.2			
FH (60°-80°)	2457.2	33.3			G2/5000
FVH (80°-90°)	25.9	0.4			G1/100
BL (0°-30°)	231.4	3.1	B1/500		
BM (30°-60°)	392.4	5.3	B1/1000		
BH (60°-80°)	138.1	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	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 III Short





REPORT NUMBER: P452212

CATALOG NUMBER: GALN-SA3A-827-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9
2.5°	804.4	807.1	809.9	811.0	814.9	818.8	821.5	821.0	825.4	827.6	827.6
5°	772.2	772.2	779.4	786.0	797.1	808.2	818.8	821.0	829.3	837.1	839.9
7.5°	745.0	746.7	752.2	764.4	779.4	798.8	819.9	824.9	839.3	856.5	863.7
10°	732.2	733.3	740.6	753.3	772.2	798.8	828.2	837.6	859.8	887.0	897.0
12.5°	729.5	731.1	738.3	752.8	774.4	806.6	846.5	856.5	888.7	923.6	938.6
15°	734.5	735.6	742.8	758.3	782.2	820.4	870.9	884.8	923.1	963.6	983.0
17.5°	752.2	751.1	756.1	768.8	795.5	837.6	900.3	917.0	961.9	1017.4	1030.1
20°	827.6	820.4	816.0	804.9	815.4	862.0	935.8	960.2	1015.7	1072.3	1081.2
22.5°	990.2	974.1	942.5	899.2	865.9	895.3	978.5	1006.8	1078.4	1133.9	1133.9
25°	1197.1	1176.6	1145.0	1050.6	969.1	950.2	1026.8	1062.3	1146.6	1202.6	1184.3
27.5°	1456.2	1440.1	1378.5	1268.7	1143.8	1046.2	1082.8	1115.6	1207.1	1274.8	1236.5
30°	1666.9	1659.2	1608.7	1510.5	1372.9	1230.4	1187.1	1208.7	1287.5	1365.7	1326.3
32.5°	1845.0	1845.0	1793.4	1701.9	1573.2	1446.7	1364.1	1379.6	1455.0	1545.5	1472.2
35°	2040.8	2034.2	1992.6	1905.5	1761.3	1649.8	1615.9	1637.0	1705.2	1772.3	1592.1
37.5°	2246.6	2244.4	2201.1	2116.8	1999.2	1858.9	1779.6	1785.1	1820.1	1861.1	1732.4
40°	2470.2	2473.5	2416.9	2364.8	2253.8	2110.2	1958.2	1923.2	1956.0	2071.9	1991.5
42.5°	2734.2	2726.5	2702.1	2631.1	2541.8	2455.8	2273.3	2260.5	2289.4	2413.6	2326.5
45°	3041.0	3052.1	3009.9	2970.6	2910.6	2839.1	2686.5	2664.3	2696.0	2889.0	2765.3
47.5°	3348.3	3337.8	3365.0	3357.8	3389.9	3336.7	3201.9	3156.4	3232.4	3415.4	3233.5
50°	3582.4	3594.1	3650.6	3733.3	3871.4	3901.4	3772.1	3756.6	3790.4	3908.0	3652.3
52.5°	3734.4	3773.2	3862.0	4074.5	4323.5	4517.1	4418.9	4410.6	4396.8	4428.4	4052.8
55°	3833.7	3873.1	3989.0	4301.9	4730.7	5045.2	5050.2	5014.7	4923.2	4900.4	4427.3
57.5°	3772.7	3780.5	3945.8	4364.0	4956.5	5421.9	5585.0	5549.5	5380.3	5294.3	4757.9
60°	3391.0	3407.1	3637.3	4128.8	4858.3	5545.0	5939.4	5923.4	5738.1	5641.0	5015.3
62.5°	2714.8	2761.4	2998.3	3546.4	4401.7	5337.6	6083.1	6128.6	5984.4	5850.7	5096.3
63°	2590.6	2575.6	2825.8	3376.6	4280.8	5234.9	6085.3	6143.0	5995.5	5870.7	5074.1
65°	1917.7	1962.6	2125.2	2662.7	3562.4	4757.3	5948.3	6050.4	5954.4	5782.5	4828.3
67.5°	1076.7	1074.5	1254.2	1742.4	2493.5	3731.6	5378.6	5594.4	5574.4	5188.9	4002.3
70°	527.0	535.3	609.1	903.1	1446.2	2574.5	4469.4	4702.4	4709.6	4075.6	2767.5
72.5°	238.5	242.4	295.1	439.9	743.3	1370.7	3079.8	3302.3	3261.2	2597.2	1528.3
75°	125.9	134.2	162.5	221.3	358.4	565.3	1675.3	1890.5	1804.5	1186.6	562.5
77.5°	93.2	96.0	110.4	140.9	191.9	220.2	722.8	859.8	805.5	429.4	186.4
80°	68.2	70.5	82.1	99.9	120.9	112.1	272.4	312.3	280.1	145.9	57.1
82.5°	41.6	42.2	59.9	74.3	76.0	62.7	89.9	96.5	101.0	82.1	31.1
85°	15.0	18.9	40.5	53.8	44.9	31.6	37.7	41.6	45.5	52.1	18.3
87.5°	1.7	2.2	19.4	26.1	12.8	11.6	13.9	15.5	16.6	19.4	8.9
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: P452212  
 CATALOG NUMBER: GALN-SA3A-827-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9
2.5°	829.9	832.1	830.4	827.6	827.1	825.4	822.1	822.1	822.1	823.2	822.1
5°	842.1	843.7	839.9	834.3	828.2	820.4	812.1	807.1	806.6	805.5	802.7
7.5°	865.4	867.6	858.7	845.4	828.8	809.9	792.1	775.5	767.7	761.6	761.6
10°	899.2	901.4	883.7	859.8	826.5	788.3	746.1	707.8	677.9	664.0	660.7
12.5°	939.7	940.8	911.4	869.8	814.9	741.1	651.2	567.5	509.2	482.6	479.8
15°	984.1	976.3	937.5	873.7	781.6	644.0	488.7	386.1	325.6	307.9	314.5
17.5°	1029.0	1014.6	957.5	867.6	706.7	488.7	328.4	263.5	244.6	239.6	239.6
20°	1071.2	1051.2	971.9	841.0	576.9	336.7	243.5	228.0	224.7	221.3	221.9
22.5°	1113.3	1082.8	984.6	781.6	429.9	240.8	218.0	213.0	208.6	204.1	203.6
25°	1154.4	1112.2	989.6	671.8	292.9	206.9	199.1	192.5	183.6	178.6	177.5
27.5°	1197.1	1147.7	986.3	533.1	213.6	185.3	177.5	168.1	157.5	148.7	148.7
30°	1279.2	1215.4	974.7	383.3	179.7	163.1	153.1	138.1	126.5	117.6	117.0
32.5°	1391.3	1303.6	934.7	269.6	159.8	143.7	128.7	112.1	99.9	93.2	93.2
35°	1491.1	1392.4	859.8	198.6	143.7	124.8	106.5	90.4	81.0	76.6	74.9
37.5°	1643.1	1522.2	756.6	161.4	128.1	108.2	89.3	74.3	66.6	63.2	63.2
40°	1871.1	1680.8	630.2	141.5	113.2	92.1	74.3	62.7	56.6	52.7	52.7
42.5°	2154.0	1875.0	502.0	127.0	99.3	79.3	62.1	53.3	47.7	44.9	44.4
45°	2510.1	2079.7	386.6	113.7	88.2	67.7	52.7	44.9	39.4	37.7	38.3
47.5°	2881.8	2259.9	299.6	102.1	76.6	57.1	44.9	38.8	34.9	32.7	32.7
50°	3199.1	2384.2	227.4	88.8	67.7	48.3	39.4	34.9	31.6	30.5	30.0
52.5°	3464.3	2420.3	174.2	77.1	59.4	41.6	34.9	31.6	28.8	27.2	27.2
55°	3690.0	2388.6	136.5	64.9	49.9	36.1	31.1	28.3	25.0	23.3	22.7
57.5°	3822.1	2287.1	104.3	53.8	40.5	30.0	27.2	23.9	20.0	17.2	17.2
60°	3888.6	2139.6	79.9	44.4	31.1	23.9	22.2	17.8	13.9	11.6	11.1
62.5°	3808.7	1943.8	60.5	34.9	23.3	17.8	15.0	12.8	8.9	6.7	6.7
63°	3759.4	1887.2	58.2	33.3	21.6	16.6	13.9	11.6	7.8	6.1	5.5
65°	3427.1	1640.3	47.7	26.6	17.2	11.6	9.4	8.3	5.5	2.8	2.2
67.5°	2721.5	1254.8	37.7	20.0	12.2	8.3	5.5	5.0	1.7	0.0	0.0
70°	1840.0	810.5	29.4	14.4	8.3	5.0	2.8	2.2	0.6	0.0	0.0
72.5°	959.7	415.5	22.7	10.5	5.0	3.3	1.7	0.6	0.0	0.0	0.0
75°	339.5	141.5	16.6	6.7	3.3	1.7	0.6	0.0	0.0	0.0	0.0
77.5°	102.6	52.7	10.5	5.0	2.2	1.1	0.0	0.0	0.0	0.0	0.0
80°	36.1	19.4	6.1	3.3	1.7	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	17.8	9.4	3.9	2.8	1.7	0.6	0.0	0.0	0.0	0.0	0.0
85°	10.0	6.1	3.3	2.8	1.7	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	4.4	3.3	2.8	2.2	1.1	0.6	0.0	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)