

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: P451280

Luminaire Tested: **GALN-SA2A-827-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451280  
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-SA2A-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5054 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

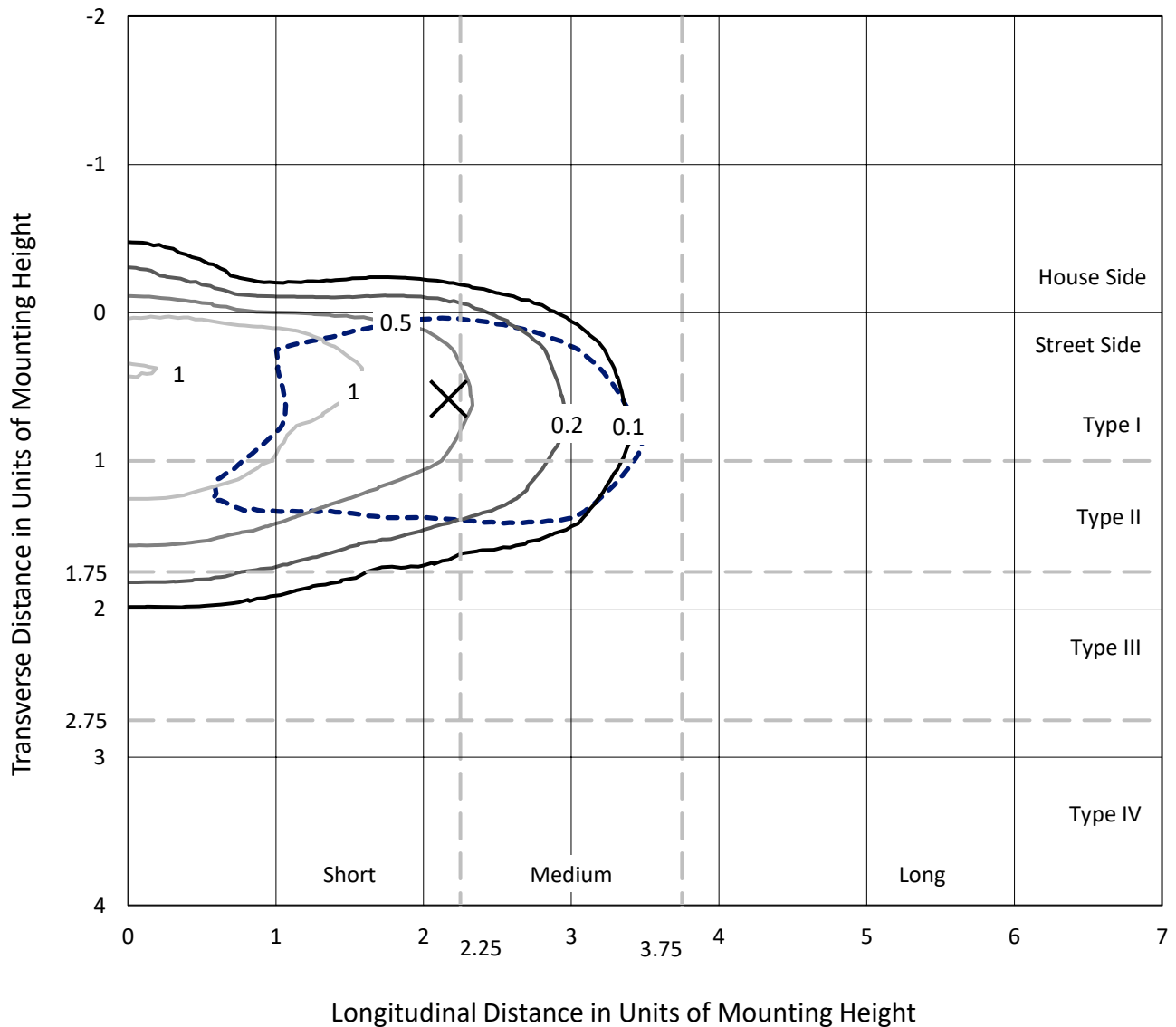
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

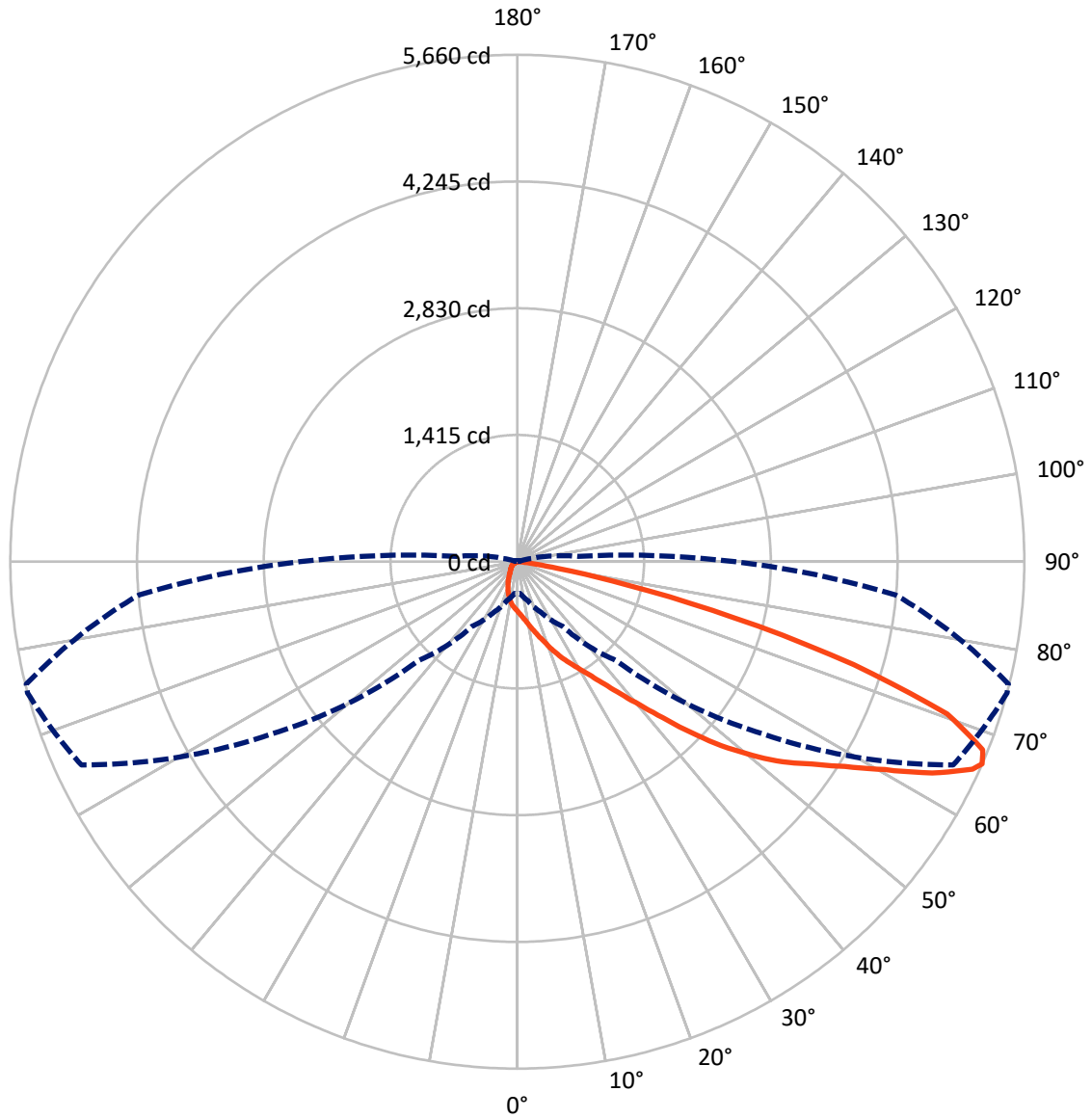
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	312.0	0.0	312.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	4742.0	0.0	4742.0
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	5054.0	0.0	5054.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.3	1.1
10°-20°	156.9	3.1
20°-30°	270.9	5.4
30°-40°	488.7	9.7
40°-50°	882.8	17.5
50°-60°	1376.3	27.2
60°-70°	1307.4	25.9
70°-80°	490.0	9.7
80°-90°	27.6	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°	5054.0	100.0
0°-180°	5054.0	100.0

**Coefficient of Utilization**



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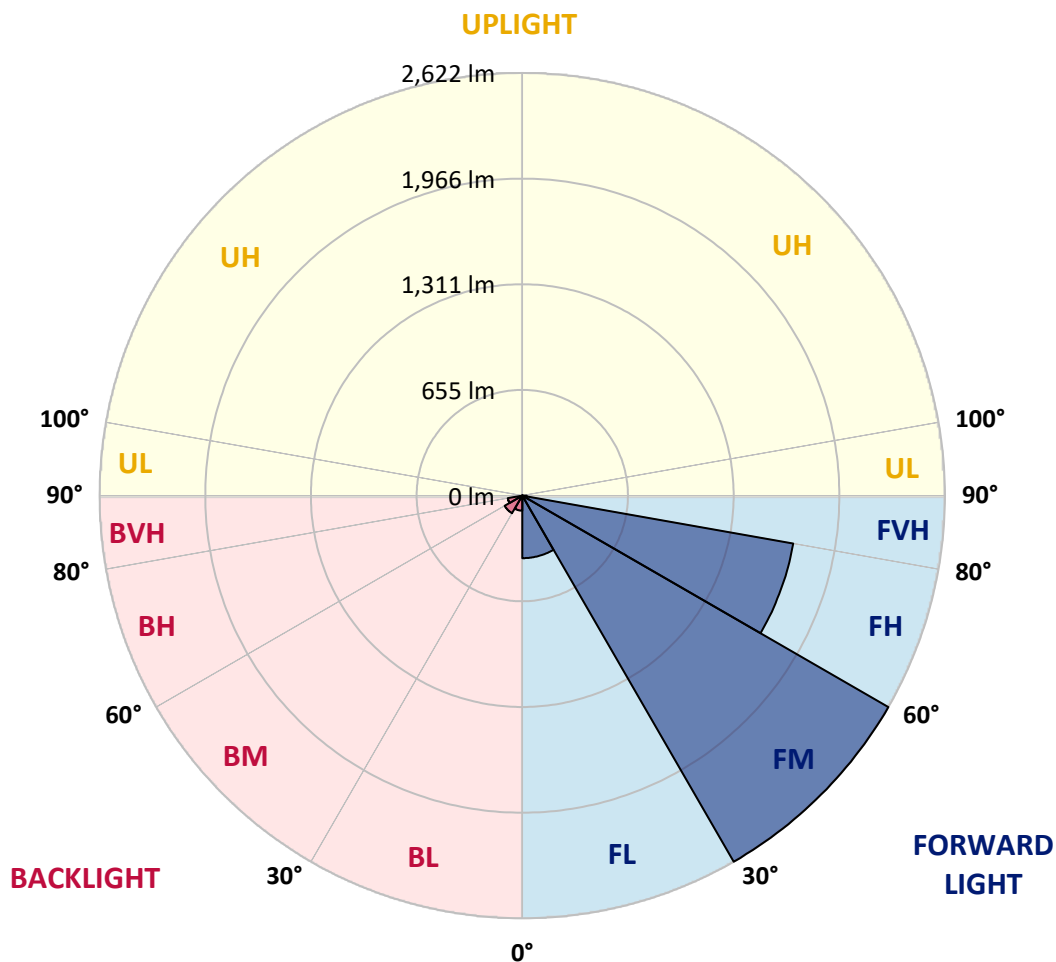
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.9	7.7			
FM (30°-60°)	2621.5	51.9			
FH (60°-80°)	1706.3	33.8			G1/1800
FVH (80°-90°)	26.2	0.5			G1/100
BL (0°-30°)	93.2	1.8	B0/110		
BM (30°-60°)	126.3	2.5	B0/220		
BH (60°-80°)	91.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	552.7	552.7	552.7	552.7	552.7	552.7	552.7	552.7	552.7	552.7	552.7
2.5°	660.3	652.1	654.7	651.0	642.4	629.7	618.5	602.4	586.3	583.7	565.8
5°	747.4	745.2	742.2	731.3	725.4	705.9	682.8	655.1	621.8	615.9	583.3
7.5°	806.8	805.7	807.2	801.6	796.4	778.8	754.1	716.4	664.8	661.5	607.3
10°	826.3	829.2	834.8	843.8	852.0	846.4	827.7	780.7	720.5	710.8	634.5
12.5°	815.0	818.4	831.9	855.8	882.3	897.6	890.2	855.8	779.5	771.7	665.2
15°	786.3	790.4	809.4	846.4	893.9	937.2	955.9	931.3	848.3	835.6	702.2
17.5°	743.7	749.6	776.9	825.9	890.9	965.6	1018.3	1010.1	921.5	909.6	742.5
20°	711.5	716.0	739.2	795.2	878.2	981.3	1077.8	1100.9	1012.0	991.4	790.0
22.5°	732.8	734.3	742.2	775.8	855.4	985.5	1130.1	1195.5	1108.0	1089.7	839.3
25°	837.1	822.1	814.3	806.8	850.5	981.7	1177.5	1294.1	1203.7	1184.3	888.3
27.5°	1001.5	994.8	955.2	902.1	892.0	986.6	1208.9	1387.6	1293.8	1272.8	936.1
30°	1180.5	1168.9	1144.6	1066.9	988.8	1021.0	1231.7	1478.4	1400.3	1372.6	979.8
32.5°	1345.0	1352.4	1316.2	1236.2	1145.8	1094.2	1261.2	1577.4	1522.5	1488.1	1030.7
35°	1536.7	1551.6	1495.9	1419.3	1313.6	1226.5	1318.8	1689.1	1677.5	1634.2	1109.1
37.5°	1731.4	1740.3	1706.3	1598.7	1503.4	1394.7	1427.2	1827.0	1868.5	1831.5	1202.9
40°	1895.0	1907.4	1882.3	1786.7	1685.0	1589.4	1584.5	1977.3	2095.7	2057.6	1342.7
42.5°	2020.2	2029.6	2030.3	1962.7	1871.1	1827.8	1785.2	2169.0	2380.5	2336.4	1504.9
45°	2178.3	2191.8	2183.9	2137.9	2069.6	2061.7	2039.7	2400.7	2721.3	2665.6	1715.3
47.5°	2422.7	2431.7	2412.2	2358.1	2288.5	2300.9	2287.8	2660.4	3068.8	3021.0	1933.2
50°	2592.4	2607.3	2635.0	2656.6	2606.2	2560.6	2521.7	2902.9	3398.8	3355.8	2155.9
52.5°	2590.5	2615.2	2702.6	2811.7	2922.0	2908.1	2796.4	3170.9	3713.8	3660.8	2365.2
55°	2416.0	2463.8	2592.4	2785.9	3091.3	3243.4	3192.5	3481.0	3985.9	3950.0	2607.7
57.5°	2055.7	2084.9	2263.5	2534.1	2996.7	3401.1	3651.4	3901.4	4312.1	4295.3	2984.4
60°	1382.7	1395.8	1625.6	1960.1	2551.3	3243.7	3987.8	4410.1	4713.9	4705.7	3424.2
62.5°	792.2	797.9	964.5	1246.7	1815.4	2748.9	4016.2	5037.5	5195.6	5200.1	3933.2
65°	426.4	429.4	563.9	731.7	1104.7	1959.3	3611.5	5381.3	5585.0	5593.6	4248.6
66°	368.1	353.9	448.8	623.7	878.9	1559.5	3355.5	5369.0	5659.7	5650.4	4237.4
67.5°	279.9	292.6	358.4	479.5	651.4	1108.8	2770.3	5130.2	5602.9	5573.8	4065.1
70°	200.3	205.5	255.2	341.9	443.6	608.4	1770.2	4260.9	5092.4	5053.2	3541.6
72.5°	129.3	134.9	180.9	247.4	320.6	332.2	991.1	3078.6	3926.1	3920.5	2667.1
75°	92.3	97.5	119.6	177.1	241.0	205.5	477.2	2074.8	2496.0	2479.1	1649.9
77.5°	66.9	69.5	80.0	115.8	172.3	147.2	221.2	1108.0	1242.6	1301.2	729.1
80°	38.5	40.7	55.7	70.6	116.6	100.5	105.8	444.7	458.5	436.5	228.0
82.5°	19.1	21.7	33.3	48.2	72.9	67.6	48.6	133.8	141.3	137.5	57.6
85°	4.5	5.6	18.7	31.8	35.5	30.3	23.5	39.2	48.6	47.5	22.0
87.5°	0.4	0.7	6.7	5.6	6.0	10.1	8.2	10.1	15.7	14.6	7.8
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°	552.7	552.7	552.7	552.7	552.7	552.7	552.7	552.7	552.7	552.7	552.7
2.5°	557.6	550.5	529.9	509.7	492.9	475.3	459.3	449.9	446.2	442.1	444.0
5°	565.4	548.2	506.7	470.9	435.7	405.8	381.9	366.6	359.1	358.0	356.1
7.5°	575.9	546.4	482.1	426.0	380.1	346.8	319.5	297.5	290.7	284.8	279.9
10°	588.6	543.0	451.4	378.9	330.0	288.1	252.2	226.1	212.6	208.9	211.5
12.5°	602.0	536.6	419.3	335.6	279.2	225.7	192.5	179.4	175.6	174.1	174.5
15°	615.5	528.8	385.7	293.7	222.4	180.1	164.8	161.4	159.9	159.2	158.4
17.5°	627.8	516.1	347.9	253.0	180.1	154.0	148.4	145.4	142.4	141.3	139.4
20°	642.4	501.5	313.9	207.4	152.5	139.4	132.7	127.1	122.6	119.6	119.2
22.5°	656.2	482.8	278.4	171.9	139.0	125.2	114.4	108.4	103.1	99.4	100.5
25°	663.7	460.0	246.6	149.9	126.7	111.0	99.0	91.6	86.0	84.1	83.7
27.5°	663.7	432.0	215.6	137.1	115.5	98.3	86.0	78.9	75.1	72.5	72.9
30°	658.5	401.0	186.9	127.4	105.8	87.1	75.5	69.1	66.1	64.3	63.9
32.5°	654.4	371.5	162.2	118.1	95.7	77.4	67.3	62.4	59.4	57.6	57.6
35°	660.7	346.0	143.1	108.7	86.3	69.9	60.9	56.4	53.4	51.9	51.6
37.5°	677.5	322.9	128.6	98.7	77.7	63.5	56.4	51.2	48.2	46.3	45.6
40°	719.0	309.8	117.7	89.3	69.5	58.3	51.2	46.3	42.6	40.7	40.4
42.5°	785.5	310.2	107.3	80.7	63.2	53.8	46.7	41.1	37.0	35.1	34.8
45°	885.7	324.4	99.0	72.5	57.6	49.0	41.9	35.9	32.1	30.3	30.3
47.5°	1005.6	352.0	91.9	65.4	52.3	44.5	37.0	31.0	27.3	25.8	25.8
50°	1135.7	387.9	84.8	57.9	47.8	39.6	31.8	26.9	23.9	22.8	22.8
52.5°	1268.3	431.3	77.7	51.9	43.0	34.4	27.3	23.9	21.3	20.6	20.2
55°	1442.5	486.6	70.3	45.6	37.7	29.5	24.3	20.9	17.9	16.8	16.4
57.5°	1710.4	569.9	62.0	40.0	31.0	24.7	20.9	17.6	14.2	12.3	12.0
60°	2033.7	671.5	53.4	35.1	25.0	20.2	16.8	13.5	10.5	8.2	7.8
62.5°	2336.4	736.2	45.2	29.5	19.8	15.3	12.0	10.1	7.5	5.2	4.9
65°	2470.2	714.5	37.4	23.9	15.7	10.8	7.8	7.1	4.5	2.2	1.9
66°	2425.7	682.4	34.4	21.7	14.2	9.3	6.7	6.0	3.4	1.1	1.1
67.5°	2294.5	606.5	29.9	18.7	12.3	7.5	5.2	4.5	1.9	0.4	0.0
70°	1966.0	490.7	23.5	13.8	9.0	5.2	3.0	2.2	1.1	0.0	0.0
72.5°	1510.1	365.5	18.7	10.5	6.4	3.0	1.5	0.7	1.1	0.0	0.0
75°	925.3	208.9	14.6	7.8	4.1	1.9	1.1	0.0	1.1	0.4	0.0
77.5°	410.7	93.8	9.7	5.2	3.0	1.5	0.7	0.0	0.7	0.4	0.0
80°	103.9	30.6	5.6	3.7	2.2	1.1	0.4	0.0	0.7	0.7	0.4
82.5°	28.4	11.2	4.1	3.0	1.9	1.1	0.4	0.0	0.7	0.7	0.7
85°	11.2	5.2	3.7	3.0	2.2	1.1	0.4	0.0	0.7	0.7	0.7
87.5°	5.2	3.7	3.7	3.4	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)