

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: P528539

Luminaire Tested: **GALN-SA3C-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-827-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11509 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0

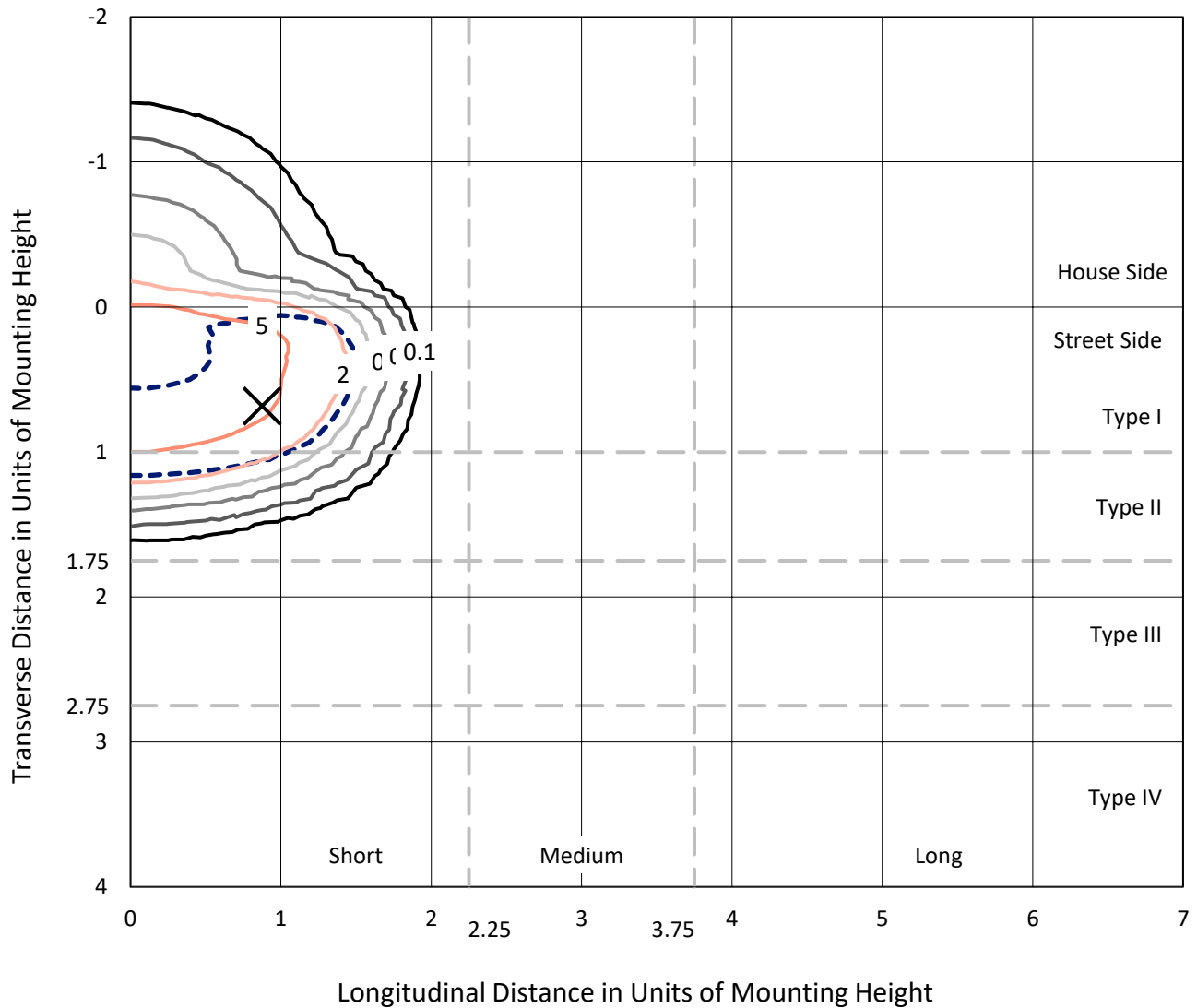
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

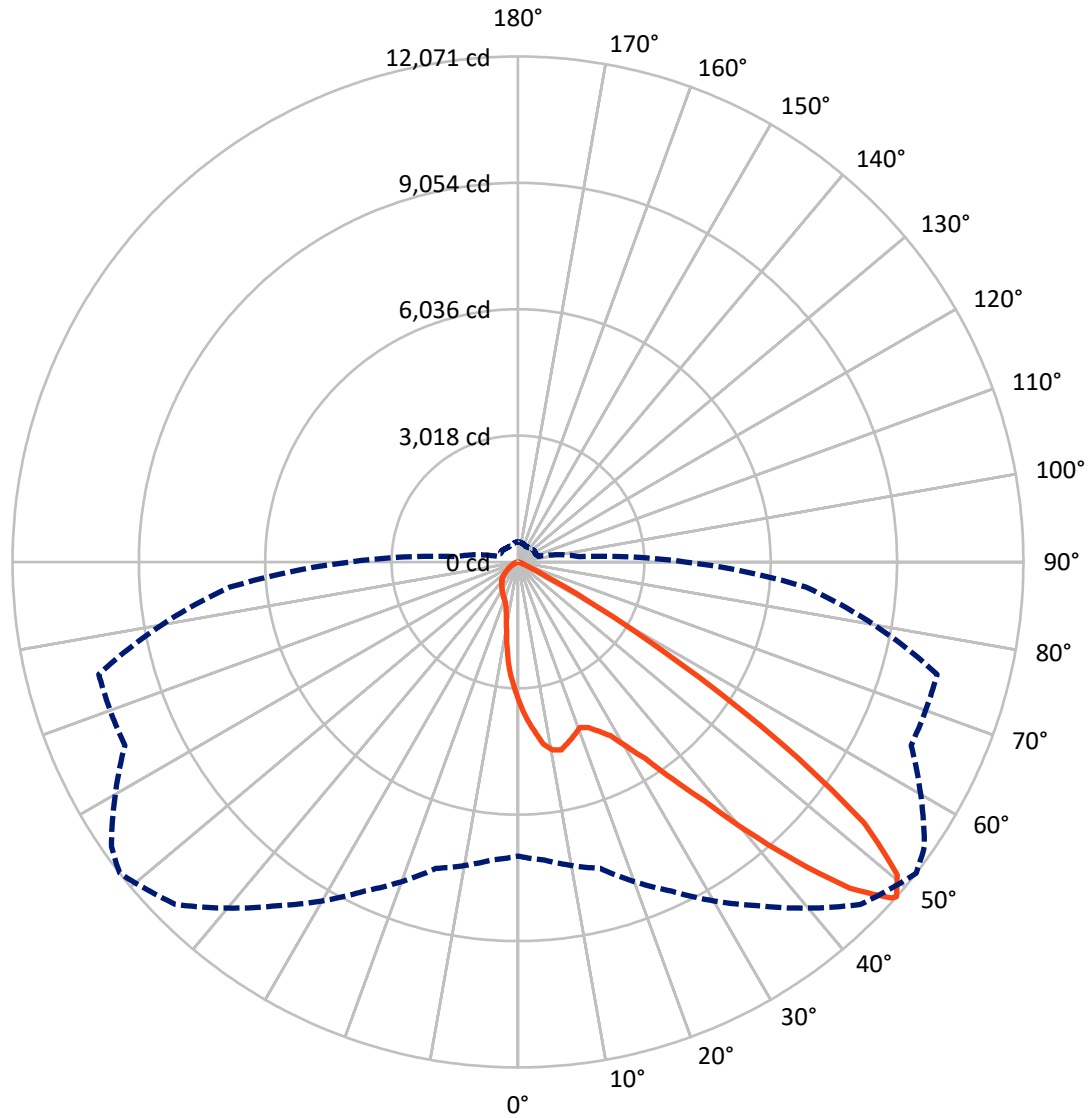
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 48-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1401.3	0.0	1401.3
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	10107.7	0.0	10107.7
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	11509.0	0.0	11509.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.2	2.6
10°-20°	795.0	6.9
20°-30°	1357.4	11.8
30°-40°	2499.6	21.7
40°-50°	3881.9	33.7
50°-60°	2336.3	20.3
60°-70°	270.2	2.3
70°-80°	52.3	0.5
80°-90°	12.1	0.1
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°	11509.0	100.0
0°-180°	11509.0	100.0



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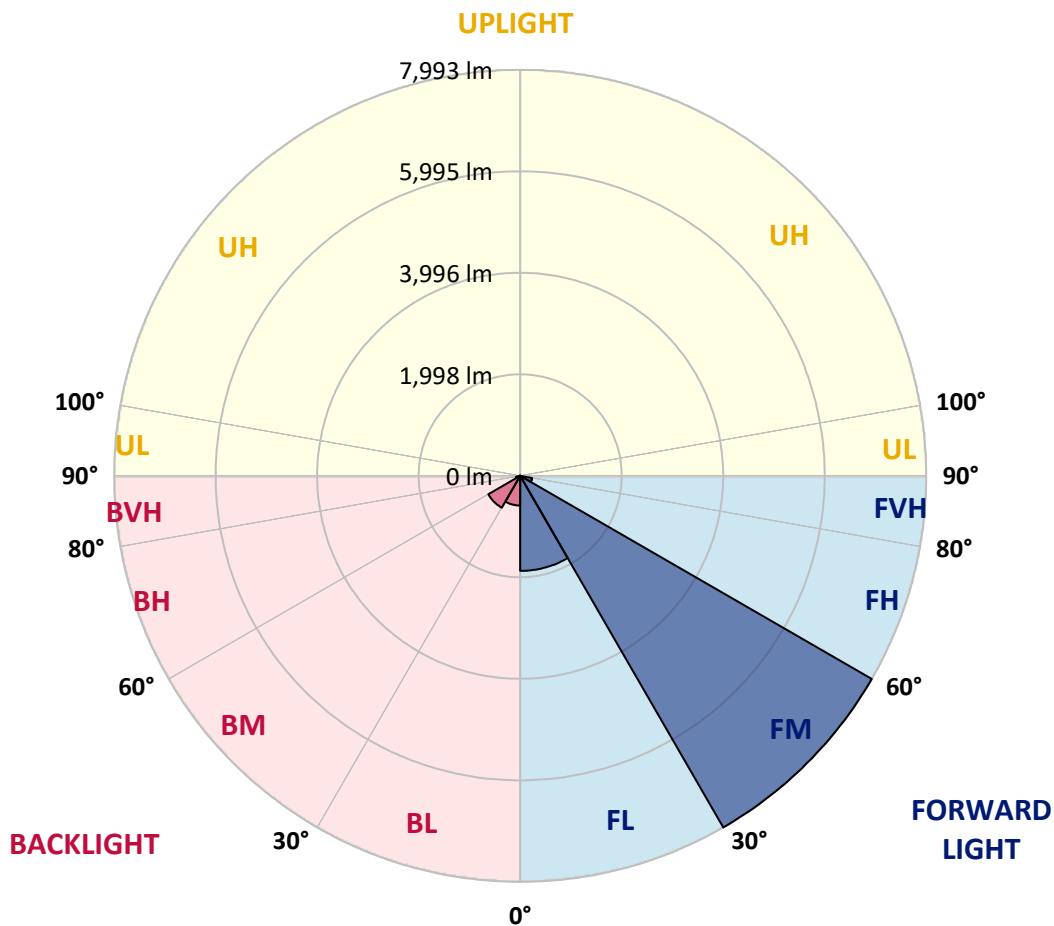
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1871.2	16.3			
FM (30°-60°)	7992.8	69.4			
FH (60°-80°)	237.9	2.1			G0/660
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	585.4	5.1	B2/1000		
BM (30°-60°)	725.0	6.3	B1/1000		
BH (60°-80°)	84.6	0.7	B0/110		G0/110
BVH (80°-90°)	6.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3323.6	3323.6	3323.6	3323.6	3323.6	3323.6	3323.6	3323.6	3323.6	3323.6	3323.6
2.5°	4028.3	3936.0	3944.4	3884.0	3848.7	3791.7	3714.5	3699.4	3615.5	3501.4	3385.7
5°	4390.7	4368.8	4397.4	4310.1	4313.5	4219.5	4038.3	4041.7	3848.7	3662.5	3483.0
7.5°	4414.1	4363.8	4392.3	4469.5	4514.8	4498.0	4395.7	4306.8	4123.9	3850.4	3588.7
10°	3952.8	4048.4	4078.6	4206.1	4387.3	4578.6	4566.8	4571.8	4419.2	4061.8	3679.3
12.5°	3675.9	3612.2	3714.5	3791.7	4065.2	4436.0	4605.4	4642.3	4654.1	4266.5	3769.9
15°	3550.1	3550.1	3566.9	3588.7	3786.7	4128.9	4474.5	4581.9	4835.3	4534.9	3912.5
17.5°	3629.0	3625.6	3649.1	3603.8	3677.6	3941.0	4353.7	4476.2	5038.3	4798.3	4024.9
20°	3868.9	3880.6	3865.5	3734.7	3739.7	3937.7	4219.5	4412.5	5175.8	5026.5	4174.2
22.5°	4202.7	4209.5	4123.9	3981.3	3939.3	4036.6	4296.7	4444.3	5286.6	5300.0	4219.5
25°	4588.6	4561.8	4545.0	4343.7	4216.2	4300.1	4471.2	4556.7	5355.4	5534.9	4348.7
27.5°	5123.8	5070.1	4967.8	4788.3	4694.3	4575.2	4697.7	4838.6	5551.7	5863.7	4489.6
30°	5914.0	5867.1	5667.4	5435.9	5189.3	5071.8	5110.4	5187.6	5905.7	6244.6	4675.9
32.5°	7103.6	7004.6	6716.0	6274.8	5939.2	5615.4	5605.3	5687.5	6222.7	6771.4	4897.3
35°	8413.9	8383.7	7959.2	7504.5	6855.3	6355.3	6363.7	6407.3	6830.1	7462.6	5187.6
37.5°	9284.6	9450.7	9180.6	8692.4	8147.1	7432.4	7251.2	7266.3	7663.9	8281.3	5711.0
40°	9957.4	9816.5	9848.3	9734.3	9361.8	8875.3	8474.3	8395.4	8628.6	9187.3	6231.1
42.5°	9663.8	9670.5	9866.8	10136.9	10229.2	10194.0	9784.6	9635.3	9454.1	9928.9	6726.1
45°	8835.0	9007.8	9262.8	9977.5	10605.0	11193.9	11113.4	10865.1	10024.5	10516.1	7011.3
47.5°	7512.9	7506.2	7924.0	8853.4	10247.7	11626.8	11992.5	11818.0	10428.8	10450.7	6952.6
48°	7024.7	7145.5	7576.7	8670.6	10021.2	11563.0	12071.4	11851.6	10360.1	10363.4	6902.2
50°	5192.6	5170.8	5707.7	7049.9	8950.8	10865.1	11739.2	11910.3	10358.4	9922.2	6549.9
52.5°	2743.1	2837.1	3228.0	4432.6	6328.4	8892.0	10355.0	10621.8	9992.6	9200.7	6043.2
55°	1166.0	1053.6	1353.9	2001.5	3560.2	5940.9	7596.8	8190.7	8449.1	8142.1	5286.6
57.5°	416.1	454.7	523.5	753.3	1496.5	3251.5	4529.9	4991.3	5853.6	5974.4	3602.1
60°	266.8	271.8	293.6	345.6	562.0	1253.3	2149.2	2516.6	2907.5	3001.5	1681.1
62.5°	206.4	208.0	218.1	226.5	266.8	486.5	807.0	956.3	993.2	854.0	441.2
65°	172.8	174.5	177.8	177.8	189.6	228.2	281.9	310.4	302.0	298.6	250.0
67.5°	132.5	135.9	142.6	142.6	149.3	139.3	156.0	166.1	187.9	228.2	213.1
70°	104.0	105.7	110.7	114.1	114.1	100.7	112.4	122.5	137.6	169.5	167.8
72.5°	80.5	83.9	87.2	87.2	82.2	68.8	80.5	88.9	99.0	117.4	114.1
75°	62.1	62.1	63.8	52.0	40.3	35.2	48.7	58.7	73.8	77.2	63.8
77.5°	16.8	18.5	16.8	15.1	16.8	25.2	31.9	36.9	47.0	47.0	41.9
80°	0.0	1.7	5.0	10.1	16.8	23.5	28.5	31.9	36.9	40.3	38.6
82.5°	0.0	1.7	5.0	10.1	15.1	18.5	25.2	26.8	30.2	35.2	35.2
85°	0.0	1.7	3.4	6.7	10.1	11.7	11.7	10.1	10.1	8.4	6.7
87.5°	0.0	0.0	1.7	3.4	3.4	5.0	5.0	5.0	5.0	5.0	5.0
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°	3323.6	3323.6	3323.6	3323.6	3323.6	3323.6	3323.6	3323.6	3323.6	3323.6	3323.6
2.5°	3340.4	3288.4	3209.5	3085.4	2966.2	2889.1	2815.3	2733.0	2687.7	2684.4	2659.2
5°	3380.7	3263.2	3075.3	2862.2	2634.1	2437.8	2239.8	2110.6	1994.8	1931.1	1919.3
7.5°	3402.5	3249.8	2946.1	2588.8	2199.5	1879.1	1657.6	1494.9	1431.1	1384.1	1382.5
10°	3447.8	3226.3	2753.2	2226.4	1744.9	1421.0	1268.4	1194.6	1159.3	1145.9	1125.8
12.5°	3481.3	3182.7	2555.2	1853.9	1379.1	1177.8	1110.7	1093.9	1095.6	1102.3	1093.9
15°	3528.3	3144.1	2288.4	1521.7	1157.6	1060.3	1060.3	1063.7	1087.2	1090.5	1088.9
17.5°	3524.9	3068.6	2013.3	1253.3	1023.4	1010.0	1015.0	1046.9	1062.0	1067.0	1055.3
20°	3565.2	2998.1	1729.8	1070.4	947.9	968.1	1001.6	1010.0	1028.5	1031.8	1018.4
22.5°	3553.5	2822.0	1466.3	926.1	890.9	929.5	963.0	973.1	968.1	958.0	956.3
25°	3531.6	2671.0	1224.8	830.5	848.9	890.9	922.8	904.3	894.2	895.9	897.6
27.5°	3493.1	2479.7	1025.1	763.4	791.9	854.0	852.3	845.6	855.6	847.3	855.6
30°	3486.3	2288.4	860.7	703.0	750.0	795.2	798.6	810.3	822.1	807.0	822.1
32.5°	3496.4	2078.7	743.2	666.1	724.8	726.5	763.4	775.1	766.7	733.2	736.5
35°	3573.6	1917.7	657.7	645.9	684.5	686.2	721.4	706.3	669.4	649.3	661.0
37.5°	3736.3	1783.4	617.4	627.5	630.8	652.6	654.3	624.1	627.5	625.8	632.5
40°	3944.4	1681.1	588.9	610.7	607.3	622.4	562.0	578.8	593.9	599.0	602.3
42.5°	4087.0	1607.3	570.4	583.9	577.1	550.3	516.7	533.5	545.3	563.7	567.1
45°	4150.7	1548.6	548.6	536.9	536.9	488.2	474.8	478.2	505.0	525.1	521.8
47.5°	4046.7	1491.5	510.0	474.8	486.5	446.3	431.2	431.2	459.7	484.9	479.8
48°	4006.4	1468.0	511.7	461.4	469.8	439.6	424.5	421.1	453.0	476.5	476.5
50°	3806.8	1380.8	468.1	424.5	407.7	404.3	394.3	397.6	417.8	439.6	439.6
52.5°	3417.6	1192.9	395.9	364.1	333.9	354.0	359.0	352.3	362.4	382.5	380.8
55°	2852.2	916.0	317.1	302.0	278.5	300.3	310.4	302.0	291.9	307.0	307.0
57.5°	1827.1	493.3	253.3	256.7	233.2	255.0	263.4	243.3	224.8	236.6	234.9
60°	823.8	295.3	208.0	203.0	187.9	213.1	226.5	203.0	177.8	186.2	194.6
62.5°	308.7	209.7	157.7	154.4	151.0	174.5	181.2	162.7	137.6	142.6	144.3
65°	226.5	184.6	125.8	114.1	120.8	137.6	134.2	115.8	99.0	99.0	102.3
67.5°	192.9	161.1	102.3	88.9	88.9	90.6	83.9	73.8	68.8	72.1	75.5
70°	151.0	127.5	80.5	68.8	62.1	55.4	48.7	47.0	41.9	47.0	45.3
72.5°	97.3	85.6	62.1	52.0	47.0	38.6	31.9	30.2	25.2	23.5	23.5
75°	52.0	52.0	48.7	41.9	36.9	30.2	25.2	20.1	13.4	10.1	10.1
77.5°	36.9	40.3	43.6	40.3	33.6	25.2	20.1	13.4	6.7	3.4	3.4
80°	35.2	40.3	43.6	38.6	33.6	25.2	18.5	10.1	5.0	1.7	1.7
82.5°	31.9	36.9	40.3	35.2	30.2	21.8	16.8	10.1	5.0	1.7	1.7
85°	6.7	8.4	10.1	10.1	11.7	15.1	11.7	8.4	3.4	1.7	1.7
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	3.4	3.4	1.7	1.7	1.7
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)