

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: P647348

Luminaire Tested: **GALN-SA3D-835-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14476.9 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

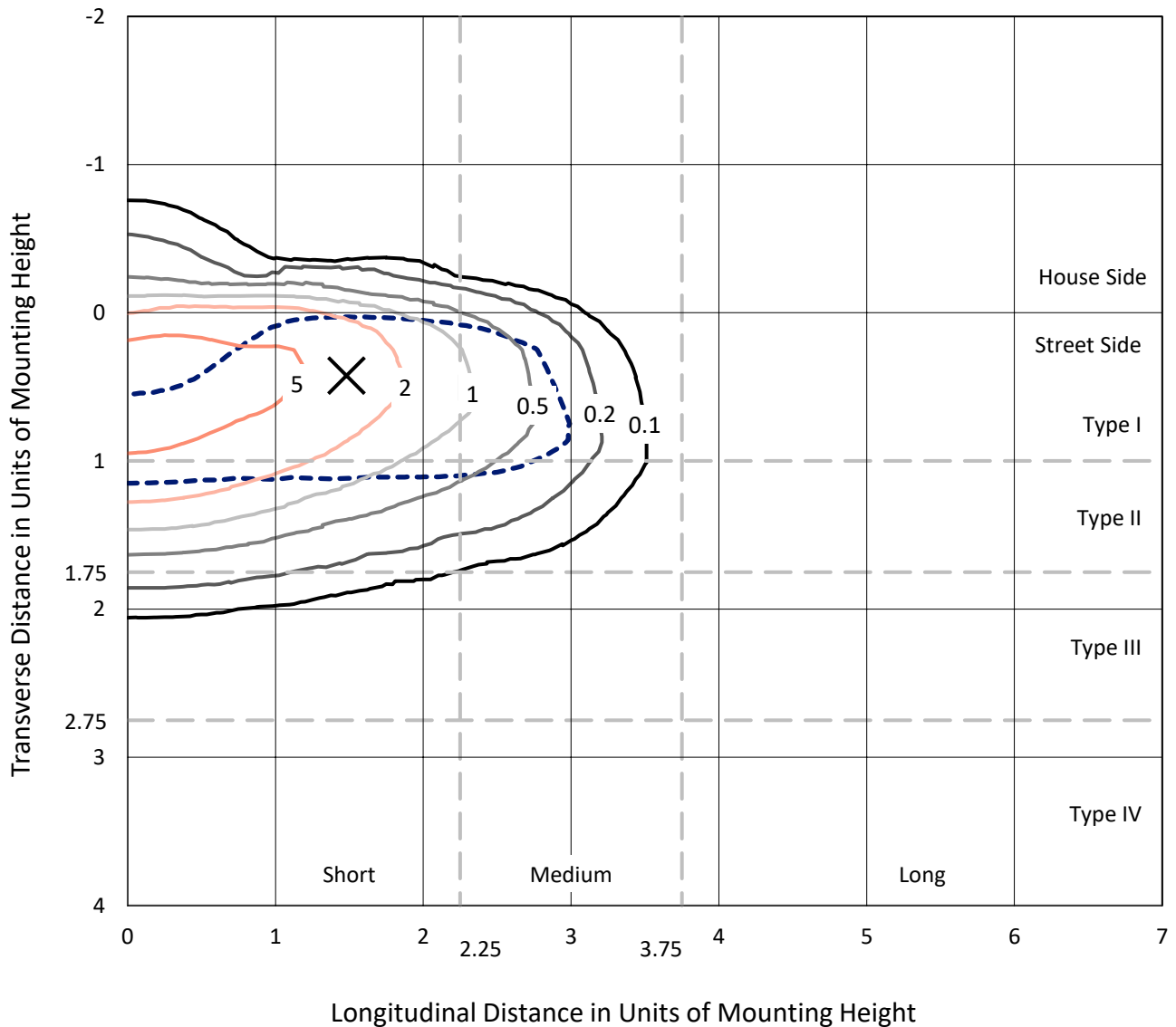
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

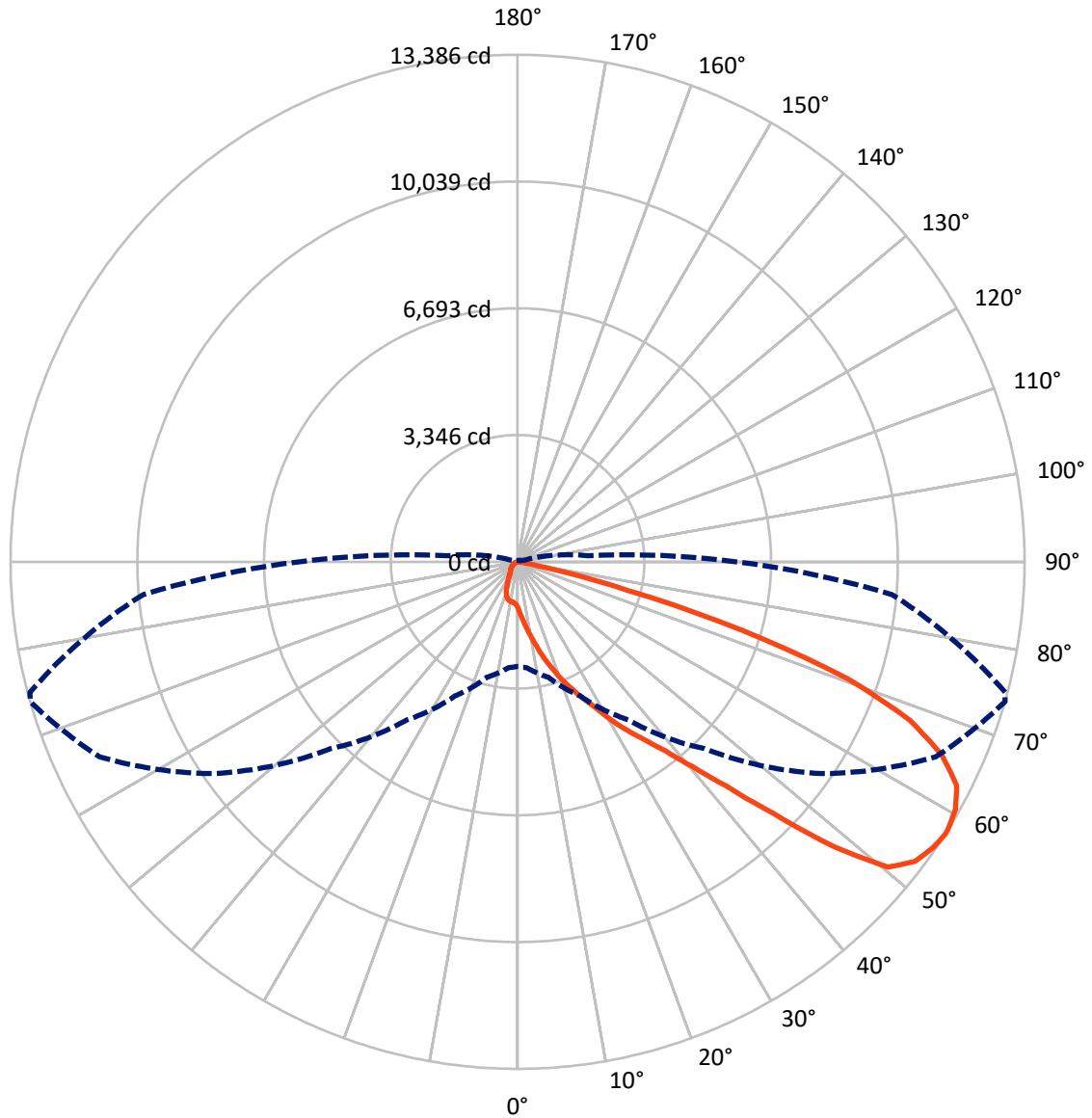
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	835.0	0.0	835.0
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	13641.9	0.0	13641.9
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	14476.9	0.0	14476.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.3	1.0
10°-20°	576.8	4.0
20°-30°	1234.3	8.5
30°-40°	2268.6	15.7
40°-50°	3477.7	24.0
50°-60°	3679.0	25.4
60°-70°	2402.5	16.6
70°-80°	656.4	4.5
80°-90°	35.3	0.2
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°	14476.9	100.0
0°-180°	14476.9	100.0

**Coefficient of Utilization**



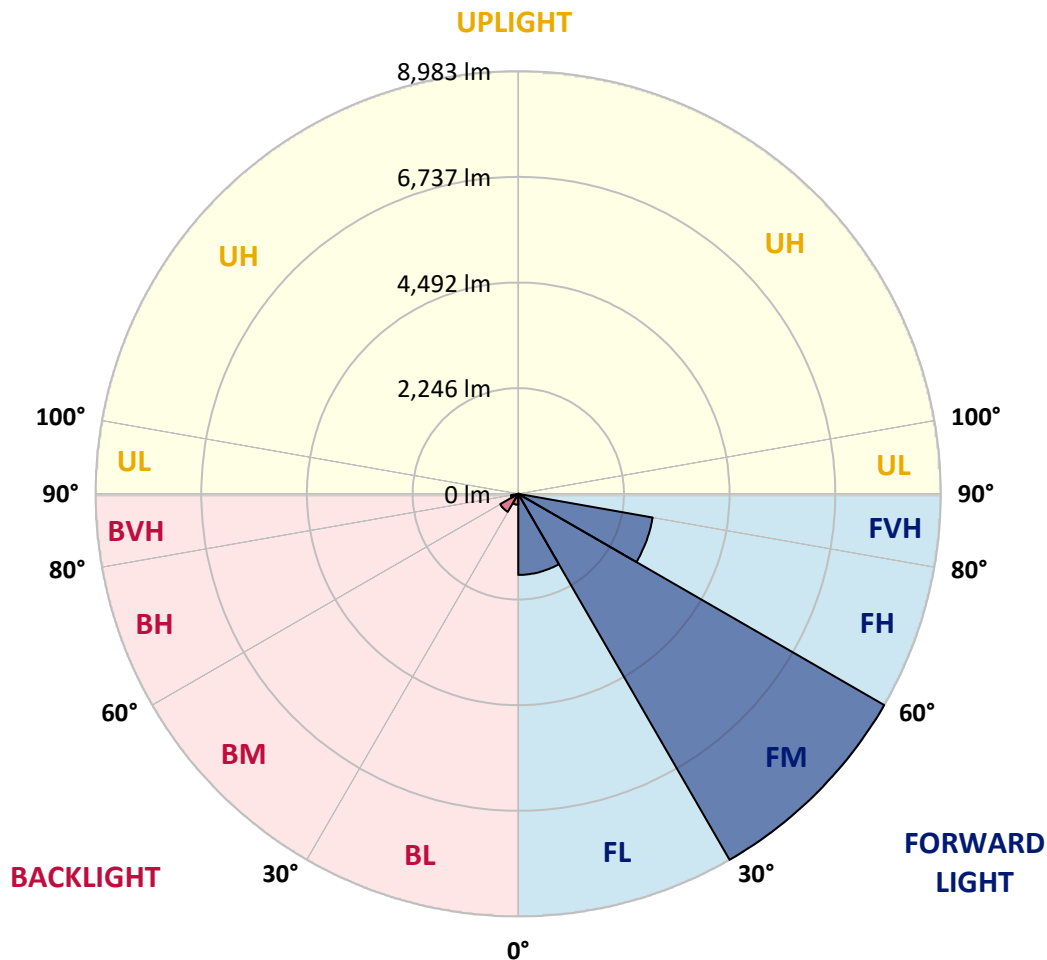
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1724.2	11.9			
FM (30°-60°)	8983.2	62.1			
FH (60°-80°)	2902.1	20.0			G2/5000
FVH (80°-90°)	32.4	0.2			G1/100
BL (0°-30°)	233.2	1.6	B1/500		
BM (30°-60°)	442.1	3.1	B1/1000		
BH (60°-80°)	156.8	1.1	B1/500		G1/500
BVH (80°-90°)	2.9	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4
2.5°	1774.1	1758.1	1726.2	1715.2	1668.2	1595.2	1531.2	1445.3	1377.4	1370.3	1288.3
5°	2375.9	2339.9	2324.9	2252.9	2139.9	2034.0	1852.1	1714.1	1555.3	1543.3	1378.3
7.5°	2955.6	2905.6	2890.6	2822.6	2690.7	2523.8	2287.9	2037.1	1785.2	1762.1	1499.3
10°	3375.4	3382.4	3355.4	3310.4	3203.5	3033.6	2742.7	2399.8	2041.0	2012.1	1635.2
12.5°	3676.3	3675.2	3680.3	3679.2	3622.2	3493.4	3187.5	2792.6	2322.9	2265.9	1791.1
15°	3872.2	3875.1	3890.2	3942.1	3948.1	3868.2	3613.3	3168.5	2649.8	2578.7	1960.1
17.5°	4070.0	4091.0	4115.1	4164.0	4208.0	4176.0	3996.1	3560.3	2945.6	2892.6	2141.0
20°	4396.9	4425.9	4411.9	4441.9	4464.9	4467.9	4328.9	3922.1	3304.4	3215.5	2347.9
22.5°	4919.7	4918.6	4882.6	4828.7	4783.7	4781.7	4655.8	4294.0	3630.3	3544.3	2555.8
25°	5580.4	5583.3	5513.3	5359.4	5247.5	5110.6	4965.6	4619.8	3979.1	3873.1	2774.6
27.5°	6338.0	6319.0	6213.0	6001.1	5779.2	5545.4	5336.5	4998.6	4348.9	4260.9	3025.6
30°	7018.7	7011.7	6887.7	6628.8	6337.0	6102.1	5799.2	5473.4	4827.7	4719.8	3306.5
32.5°	7652.3	7662.4	7490.4	7222.5	6940.7	6669.8	6350.0	5927.2	5297.5	5144.5	3612.3
35°	8147.1	8157.1	7979.2	7756.3	7466.5	7241.6	6936.7	6411.0	5761.2	5632.3	3964.1
37.5°	8411.0	8424.0	8321.0	8153.1	7972.2	7859.2	7575.4	7033.6	6325.0	6247.0	4379.9
40°	8460.9	8476.0	8431.0	8386.0	8376.0	8456.9	8374.0	7767.3	7106.6	6984.7	4999.6
42.5°	8311.0	8331.0	8351.0	8451.0	8654.9	8951.7	9240.6	8762.8	8113.1	7949.2	5757.2
45°	7917.2	7915.2	7994.2	8253.1	8709.9	9343.5	10146.1	10009.2	9484.5	9289.6	6827.8
47.5°	7243.5	7233.5	7404.4	7773.3	8485.0	9415.5	10884.8	11522.5	11234.6	11054.7	7978.2
50°	6217.0	6266.0	6534.8	7049.7	7926.2	9197.6	11112.6	12515.0	12671.0	12480.0	8907.7
52.5°	5014.6	5012.6	5434.4	6133.1	7098.6	8717.8	10953.8	12694.9	13137.7	12991.8	9365.5
55°	3711.3	3737.2	4176.0	4880.7	6024.1	7842.2	10435.0	12510.0	13315.6	13212.7	9667.4
57°	2760.7	2806.7	3158.5	3904.1	5088.6	6975.7	9744.4	12179.2	13385.6	13329.6	9918.3
57.5°	2576.8	2578.7	2921.6	3599.3	4814.7	6642.8	9546.4	12041.2	13383.6	13352.7	9959.2
60°	1586.3	1636.2	1873.1	2432.9	3524.3	5184.6	8220.1	11248.7	13279.7	13324.6	10134.1
62.5°	949.5	970.5	1124.5	1466.3	2272.0	3784.2	6726.8	10234.1	13008.8	13145.7	10122.2
65°	610.7	615.7	685.7	887.6	1420.3	2557.7	5183.5	8893.8	12308.1	12560.0	9726.3
67.5°	471.8	479.7	507.8	582.7	823.6	1593.2	3666.2	7463.4	11174.7	11499.5	8766.8
70°	418.8	422.8	432.8	456.8	544.7	899.6	2280.9	5830.2	9266.6	9358.5	6860.7
72.5°	341.9	352.8	383.8	391.8	431.8	561.7	1269.4	3913.1	6226.0	6249.0	3838.2
75°	264.9	266.8	312.9	335.8	363.9	386.8	566.7	1973.1	2990.6	2830.6	1479.3
77.5°	197.9	206.9	227.9	256.9	296.8	276.9	253.8	743.6	928.6	911.6	429.8
80°	126.9	131.9	158.9	192.9	230.9	181.0	142.9	217.9	203.9	209.9	103.0
82.5°	64.0	65.0	101.9	156.9	146.9	91.0	90.0	88.9	76.0	74.9	48.0
85°	7.0	15.0	66.0	90.0	66.0	30.0	42.0	41.0	40.0	41.0	28.0
87.5°	1.0	1.0	11.0	13.0	9.0	10.0	12.0	13.0	16.0	15.0	12.0
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°	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4
2.5°	1248.4	1208.4	1134.5	1063.5	1010.5	976.6	932.6	916.6	893.6	890.6	879.5
5°	1302.4	1226.4	1097.5	995.5	913.5	851.6	797.6	752.6	716.7	708.7	712.7
7.5°	1379.3	1266.4	1086.5	947.5	833.6	727.6	641.7	588.7	550.8	536.7	538.7
10°	1466.3	1319.4	1084.5	896.5	722.6	592.7	498.8	451.8	429.8	421.8	412.8
12.5°	1569.3	1380.4	1079.5	817.6	600.7	472.8	405.8	377.8	356.8	350.9	350.9
15°	1685.2	1445.3	1055.5	719.7	487.7	390.8	345.9	323.8	316.9	310.9	310.9
17.5°	1806.1	1509.3	1005.5	598.7	404.8	334.8	306.9	293.9	283.8	276.9	276.9
20°	1944.0	1572.3	925.6	491.8	341.9	298.9	276.9	261.9	253.8	247.9	245.9
22.5°	2075.0	1623.2	823.6	403.8	297.9	268.9	248.9	232.9	224.9	221.9	221.9
25°	2211.0	1654.2	700.6	333.9	271.9	243.9	221.9	208.9	201.9	199.9	198.9
27.5°	2342.9	1672.2	592.7	291.8	247.9	220.9	199.9	189.9	182.9	181.0	181.9
30°	2502.8	1675.2	487.7	261.9	226.9	198.9	179.9	170.9	166.9	164.9	164.0
32.5°	2664.7	1671.2	409.8	243.9	206.9	179.9	164.0	156.9	153.9	151.0	151.0
35°	2846.7	1650.2	348.8	225.9	187.9	164.0	149.9	143.9	139.9	136.9	135.9
37.5°	3072.6	1639.2	313.8	205.9	170.9	148.9	135.9	129.9	126.9	122.9	121.9
40°	3428.4	1688.2	302.9	187.9	153.9	134.9	122.9	116.0	112.0	108.0	107.0
42.5°	3872.2	1774.1	284.9	169.9	138.9	121.9	109.9	101.9	95.0	90.0	87.9
45°	4446.9	1887.1	256.9	151.0	125.9	108.0	96.9	87.0	78.0	74.0	73.0
47.5°	5049.6	1996.0	231.9	135.9	112.0	95.9	83.9	73.0	65.0	61.9	61.0
50°	5419.4	2018.0	215.9	118.9	98.0	83.0	70.9	61.0	56.0	53.0	53.0
52.5°	5588.3	1983.0	193.9	104.0	85.0	73.0	61.0	53.0	50.0	48.0	47.0
55°	5706.3	1929.1	164.9	90.0	73.0	61.9	53.9	48.0	44.0	42.0	41.0
57°	5775.3	1856.1	142.9	78.9	63.0	53.9	48.0	43.0	39.0	35.0	35.0
57.5°	5778.2	1828.1	136.9	78.0	60.0	52.0	47.0	42.0	37.0	33.0	31.9
60°	5689.3	1636.2	109.9	66.0	48.0	44.0	39.0	33.0	26.0	22.0	21.0
62.5°	5403.4	1392.3	91.0	56.0	39.0	34.0	28.0	25.0	18.0	13.0	13.0
65°	4970.6	1129.5	78.0	44.9	31.9	25.0	19.0	18.0	11.0	6.0	5.0
67.5°	4344.9	879.5	66.0	37.0	27.0	18.0	13.0	12.0	6.0	2.0	0.0
70°	3310.4	599.7	55.0	30.0	20.0	13.0	9.0	7.0	4.0	1.0	0.0
72.5°	1908.1	329.9	46.0	23.0	15.0	10.0	7.0	4.0	4.0	0.0	0.0
75°	681.7	142.0	35.0	17.0	12.0	8.0	5.0	2.0	3.0	1.0	0.0
77.5°	216.9	76.0	23.0	13.0	10.0	6.0	4.0	2.0	2.0	1.0	0.0
80°	64.0	40.0	14.0	11.0	7.0	5.0	3.0	1.0	2.0	1.0	0.0
82.5°	35.0	20.0	11.0	8.0	7.0	4.0	3.0	1.0	1.0	1.0	0.0
85°	18.0	12.0	9.0	8.0	7.0	4.0	3.0	1.0	0.0	1.0	1.0
87.5°	10.0	9.0	9.0	8.0	7.0	5.0	3.0	1.0	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)