

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: P651893

Luminaire Tested: **GALN-SA5A-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651893  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-840-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11263.5 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

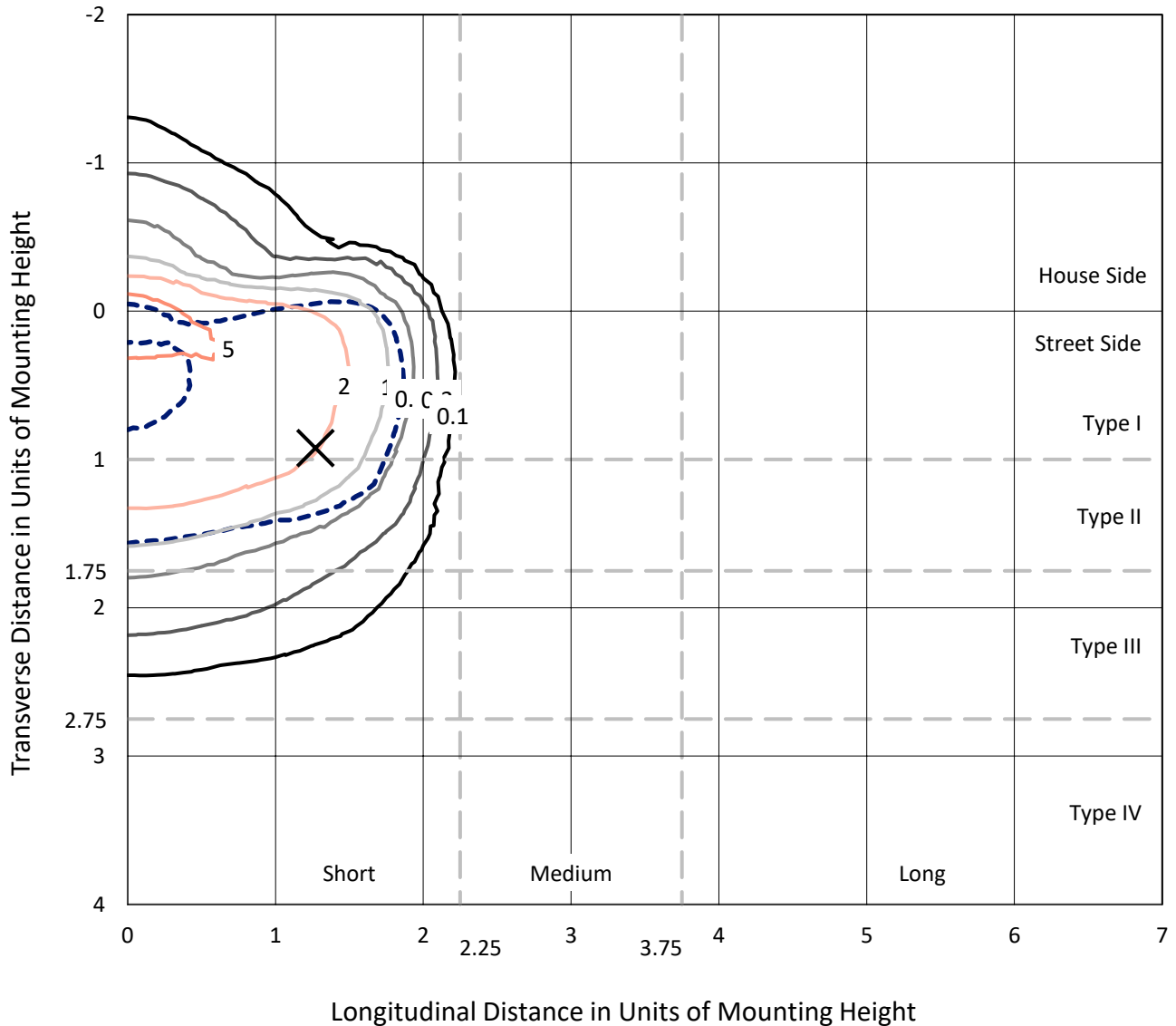
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

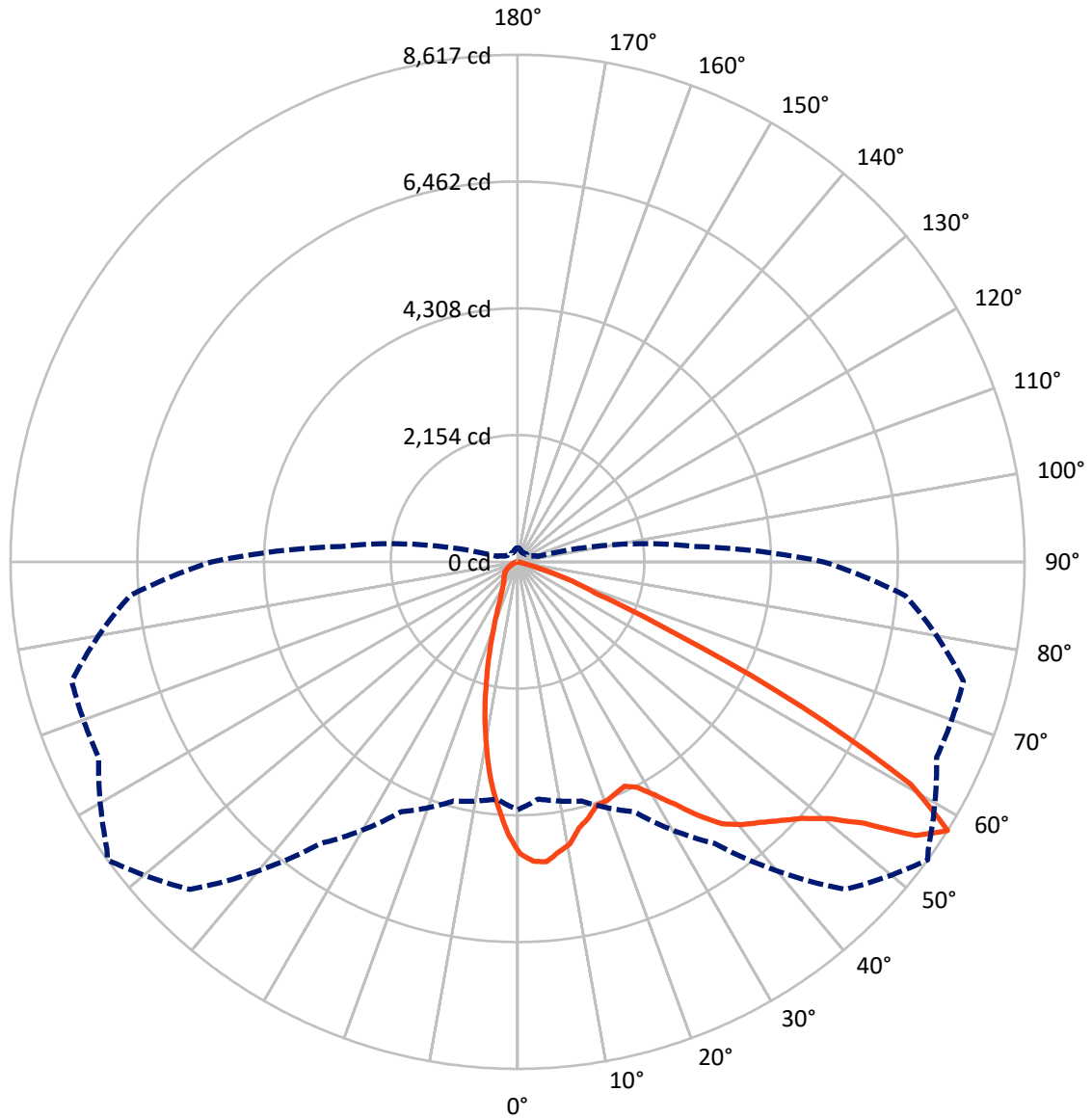
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1591.7	0.0	1591.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	9671.8	0.0	9671.8
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	11263.5	0.0	11263.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.2	3.7
10°-20°	886.5	7.9
20°-30°	1174.7	10.4
30°-40°	1707.2	15.2
40°-50°	2531.6	22.5
50°-60°	3165.6	28.1
60°-70°	1248.7	11.1
70°-80°	124.3	1.1
80°-90°	9.7	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°	11263.5	100.0
0°-180°	11263.5	100.0

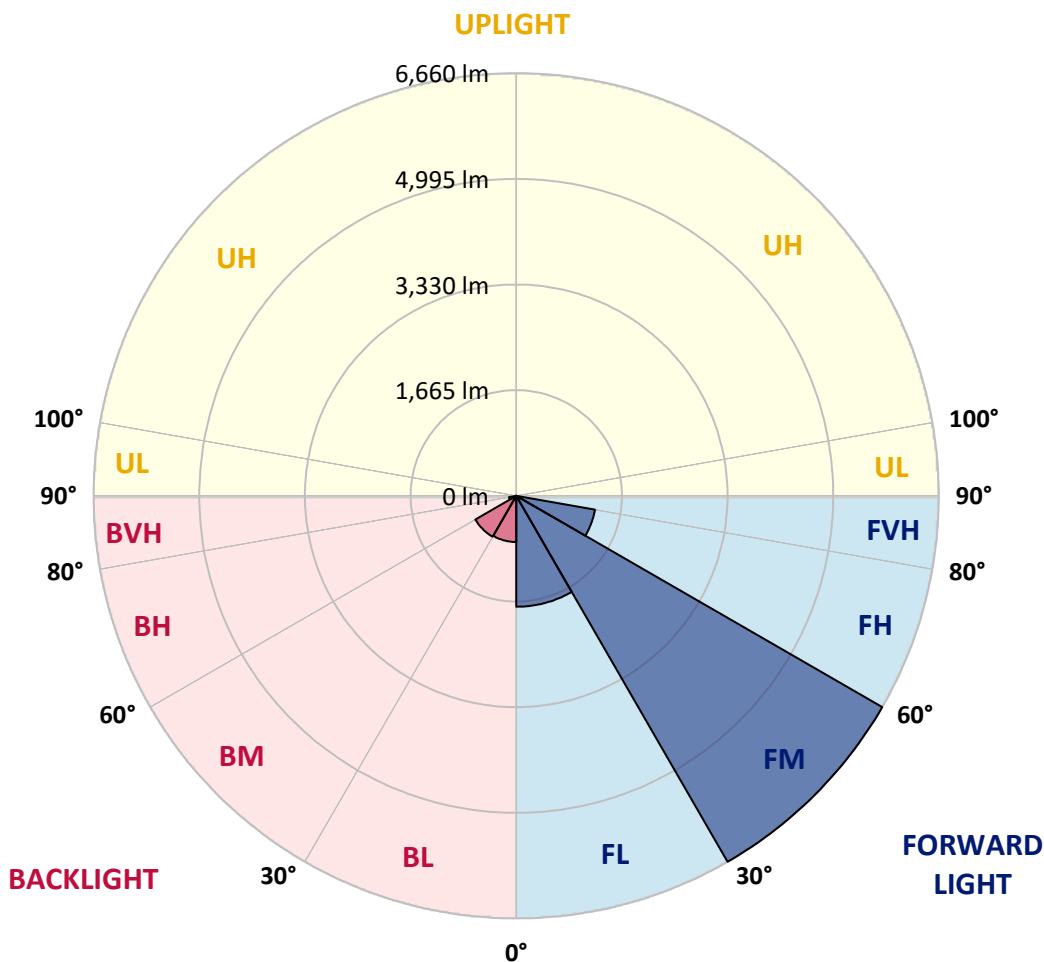


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1748.4	15.5			
FM (30°-60°)	6660.1	59.1			
FH (60°-80°)	1258.9	11.2			G1/1800
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	728.0	6.5	B2/1000		
BM (30°-60°)	744.3	6.6	B1/1000		
BH (60°-80°)	114.1	1.0	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4961.7	4961.7	4961.7	4961.7	4961.7	4961.7	4961.7	4961.7	4961.7	4961.7	4961.7
2.5°	5250.8	5196.3	5200.5	5181.7	5156.5	5175.3	5093.7	5112.5	5110.4	4999.4	4926.2
5°	5118.8	5177.4	5116.7	5167.0	5118.8	5171.1	5120.9	5083.2	5022.5	4940.8	4804.6
7.5°	4894.7	4838.2	4854.9	4917.7	4928.3	5045.5	4982.7	5030.9	5005.7	4844.4	4658.0
10°	4444.4	4431.8	4515.6	4599.4	4702.0	4827.7	4875.9	4848.6	4829.8	4769.1	4519.8
12.5°	4098.8	4134.4	4132.3	4270.6	4444.4	4515.6	4641.3	4637.1	4741.8	4628.7	4389.9
15°	3770.0	3788.9	3876.8	3962.7	4155.4	4358.6	4513.5	4534.5	4660.1	4580.5	4289.4
17.5°	3569.0	3541.7	3610.8	3713.4	3910.3	4176.3	4348.1	4398.3	4570.1	4553.3	4174.2
20°	3370.0	3370.0	3426.5	3548.0	3728.1	4027.6	4333.4	4318.7	4570.1	4521.9	4050.7
22.5°	3302.9	3336.4	3351.1	3443.2	3656.9	3914.5	4270.6	4297.8	4605.7	4507.3	3996.2
25°	3395.1	3351.1	3355.3	3428.6	3629.7	3860.0	4224.5	4285.2	4670.6	4580.5	3952.2
27.5°	3409.8	3453.7	3466.3	3516.6	3650.6	3876.8	4339.6	4463.3	4831.9	4752.3	3964.8
30°	3537.5	3581.5	3579.4	3665.2	3757.4	4012.9	4597.3	4622.4	5164.9	4968.0	4042.3
32.5°	3692.5	3738.6	3753.2	3853.8	3927.0	4262.2	4911.4	4976.4	5485.3	5307.3	4245.5
35°	3885.2	3868.4	3935.5	4036.0	4193.1	4626.6	5294.8	5403.7	5830.9	5747.1	4454.9
37.5°	4126.0	4105.1	4170.0	4333.4	4547.0	5058.1	5648.7	5719.9	6082.3	6155.5	4842.3
40°	4295.7	4304.1	4500.9	4720.9	4947.1	5468.6	5872.8	5941.9	6258.2	6536.8	5135.6
42.5°	4578.5	4630.8	4867.5	5135.6	5372.2	5776.5	6055.0	6122.1	6339.9	6842.5	5531.4
45°	4989.0	4965.9	5227.7	5527.2	5789.0	6096.9	6270.7	6247.7	6388.1	7146.2	5780.6
47.5°	5516.8	5520.9	5694.7	5950.3	6222.6	6375.5	6511.6	6429.9	6488.6	7466.7	6113.6
50°	5877.0	5908.4	6048.7	6310.5	6446.7	6681.2	6855.1	6804.9	6785.9	7659.4	6323.1
52.5°	5969.2	6063.4	6138.8	6465.5	6783.9	7154.6	7376.6	7483.5	7148.3	7724.3	6589.2
55°	5273.8	5357.6	5623.6	6071.8	6911.7	7904.4	8210.2	8212.3	7621.6	8013.3	6775.5
57.5°	4216.1	4046.5	4209.8	4685.3	5843.5	7873.0	8616.5	8518.1	7858.3	7843.7	6614.2
60°	2915.5	2873.6	2884.0	3072.5	4044.4	6262.3	7678.2	7806.0	7236.3	6798.6	5236.1
62.5°	2310.1	2274.6	2228.5	2207.5	2511.2	3901.9	5416.2	5596.4	5060.1	4408.8	3104.0
65°	1809.6	1788.6	1794.9	1878.7	1876.6	2213.8	2961.5	2888.2	2312.2	1709.1	976.0
67.5°	1221.0	1252.5	1277.6	1531.0	1660.9	1541.5	1430.5	1388.6	751.9	316.3	215.7
70°	687.0	691.1	718.4	957.1	1260.8	1195.9	986.5	986.5	374.9	115.2	123.5
72.5°	374.9	362.3	337.2	412.6	561.3	569.7	439.8	383.2	111.0	75.4	69.1
75°	182.2	180.1	155.0	127.7	121.4	100.5	77.5	71.2	50.3	48.2	41.9
77.5°	37.7	35.6	18.8	18.8	20.9	23.0	29.4	29.4	35.6	35.6	29.4
80°	0.0	0.0	2.1	8.4	14.6	20.9	25.1	25.1	29.4	29.4	23.0
82.5°	0.0	0.0	2.1	6.3	12.5	18.8	23.0	25.1	29.4	31.5	25.1
85°	0.0	0.0	0.0	4.2	10.5	14.6	12.5	12.5	10.5	8.4	4.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4961.7	4961.7	4961.7	4961.7	4961.7	4961.7	4961.7	4961.7	4961.7	4961.7	4961.7
2.5°	4888.4	4884.3	4787.9	4733.4	4635.0	4549.1	4480.0	4429.7	4429.7	4398.3	4369.0
5°	4750.2	4714.6	4509.4	4377.4	4191.0	4052.8	3958.5	3885.2	3770.0	3801.4	3677.9
7.5°	4578.5	4488.4	4216.1	4015.0	3757.4	3560.5	3359.5	3181.4	3009.7	2932.2	2974.1
10°	4394.1	4237.0	3870.5	3552.1	3231.7	2871.5	2636.9	2352.0	2176.1	2165.7	2119.6
12.5°	4199.4	4021.3	3575.2	3135.4	2714.4	2280.9	1922.7	1656.7	1537.3	1405.4	1430.5
15°	4052.8	3788.9	3246.3	2716.5	2157.2	1719.5	1359.3	1154.0	1040.9	1009.5	999.0
17.5°	3893.6	3610.8	2911.3	2270.4	1692.3	1237.8	978.1	879.7	835.7	835.7	829.4
20°	3728.1	3409.8	2578.3	1855.7	1269.2	923.7	783.3	751.9	749.8	747.7	747.7
22.5°	3619.2	3179.4	2276.7	1474.5	957.1	739.3	680.7	668.1	676.5	701.6	701.6
25°	3504.0	2957.4	1943.6	1137.3	741.4	634.6	601.1	609.5	630.4	653.5	645.0
27.5°	3386.7	2812.8	1629.4	892.2	607.4	555.1	542.4	561.3	584.3	605.3	599.0
30°	3359.5	2657.8	1332.1	676.5	521.5	483.8	492.2	509.0	532.0	540.3	548.8
32.5°	3401.3	2536.4	1091.2	555.1	454.5	444.0	444.0	452.4	467.1	485.9	479.6
35°	3520.8	2467.2	863.0	481.7	416.8	406.3	404.3	412.6	421.0	427.2	421.0
37.5°	3703.0	2412.8	705.9	427.2	391.7	374.9	370.7	368.6	377.0	379.1	383.2
40°	3935.5	2442.1	599.0	393.8	366.5	347.7	335.1	335.1	335.1	341.4	343.5
42.5°	4186.8	2481.9	517.3	374.9	343.5	320.4	307.9	303.7	307.9	316.3	314.2
45°	4450.7	2559.4	465.0	345.6	322.5	293.3	276.4	272.3	282.7	299.5	297.4
47.5°	4697.8	2670.4	425.2	326.7	301.6	274.3	253.4	249.3	268.1	291.2	293.3
50°	4945.0	2863.1	410.5	312.1	286.9	255.5	236.7	232.5	253.4	282.7	289.1
52.5°	5229.8	3070.5	400.1	293.3	270.2	240.9	219.9	215.7	238.8	276.4	278.5
55°	5416.2	3246.3	391.7	259.7	238.8	217.8	201.1	199.0	224.1	257.6	266.0
57.5°	5198.4	3001.4	362.3	226.2	203.2	192.7	178.0	178.0	199.0	230.3	236.7
60°	3941.8	1975.1	257.6	182.2	171.7	165.4	159.2	159.2	175.9	199.0	201.1
62.5°	2308.0	1063.9	165.4	146.6	146.6	140.4	129.9	129.9	146.6	159.2	161.3
65°	684.9	341.4	134.1	125.6	123.5	113.1	102.6	100.5	113.1	119.4	117.3
67.5°	196.9	157.1	111.0	104.7	102.6	85.9	79.6	77.5	79.6	75.4	73.3
70°	117.3	106.8	85.9	88.0	77.5	62.8	56.5	54.5	50.3	44.0	39.8
72.5°	64.9	64.9	62.8	67.0	54.5	41.9	35.6	29.4	23.0	18.8	16.7
75°	39.8	41.9	44.0	46.1	35.6	27.2	23.0	14.6	8.4	4.2	4.2
77.5°	27.2	29.4	31.5	33.5	29.4	25.1	18.8	10.5	2.1	0.0	0.0
80°	20.9	23.0	27.2	29.4	31.5	33.5	25.1	10.5	2.1	0.0	0.0
82.5°	23.0	25.1	31.5	29.4	29.4	29.4	23.0	10.5	2.1	0.0	0.0
85°	4.2	6.3	10.5	10.5	14.6	18.8	14.6	4.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)