

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: P648529

Luminaire Tested: **GALN-SA7B-835-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-835-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25425.6 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

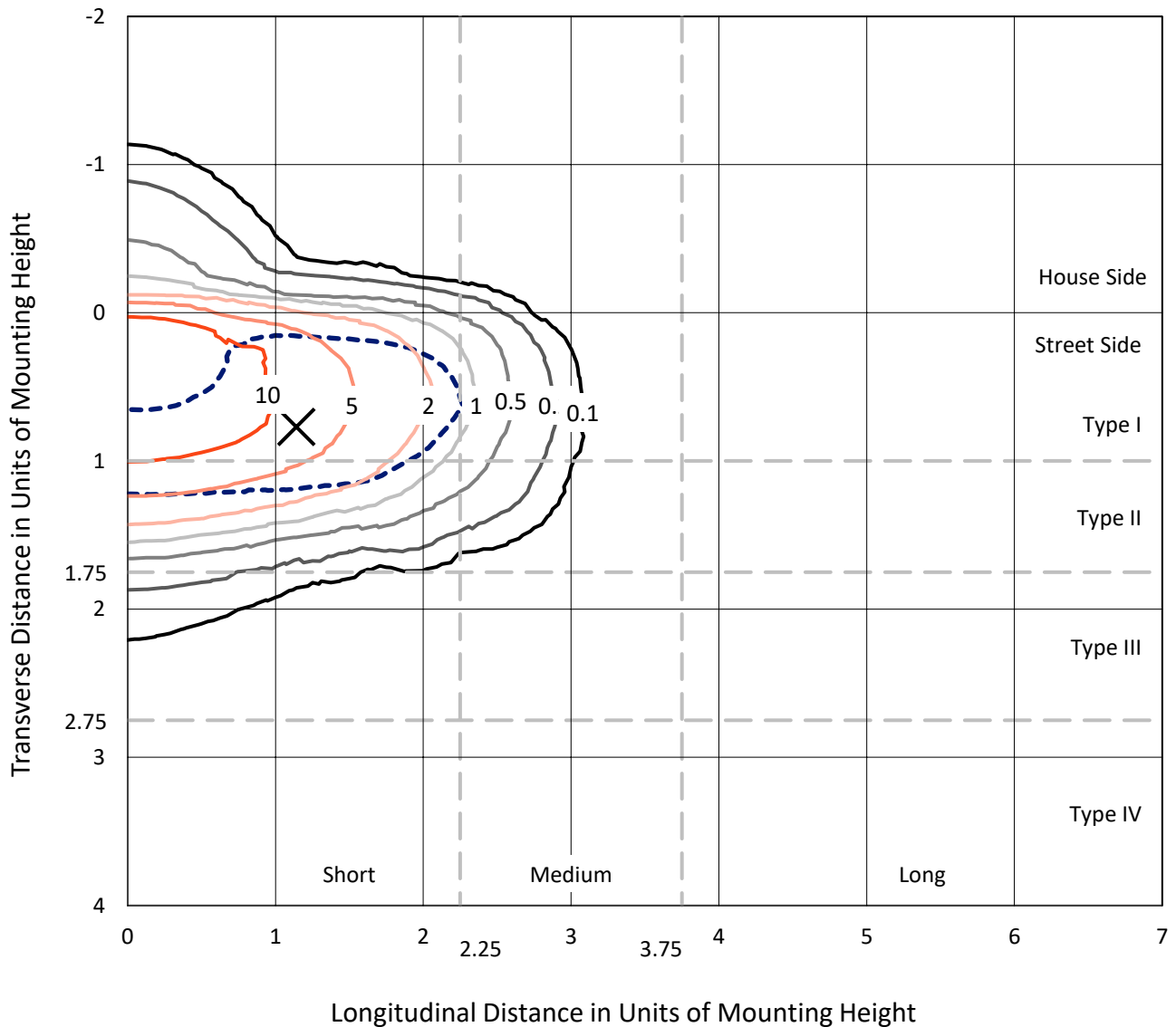
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

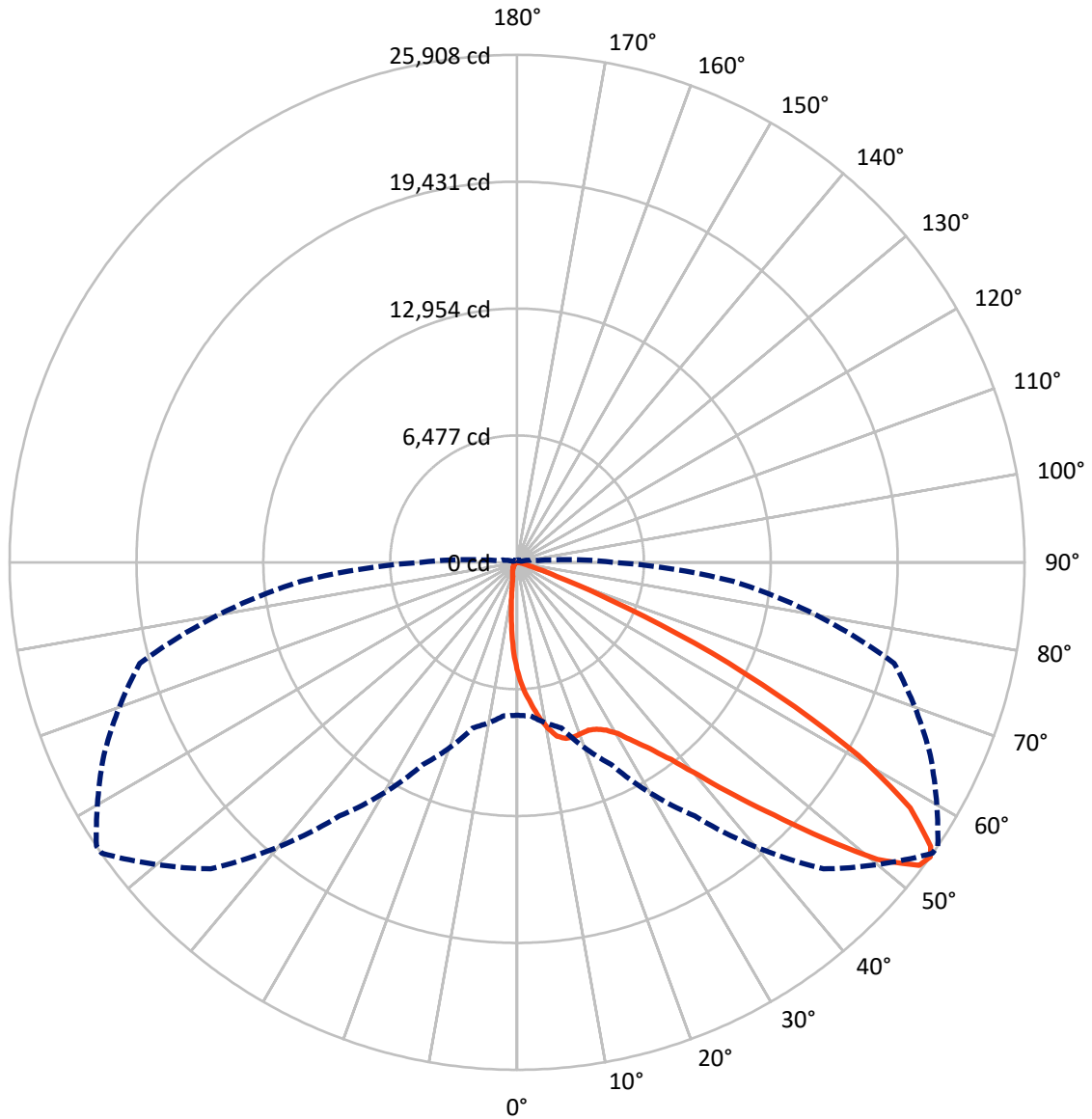
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1202.3	0.0	1202.3
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	24223.3	0.0	24223.3
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	25425.6	0.0	25425.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.2	2.0
10°-20°	1349.4	5.3
20°-30°	2337.1	9.2
30°-40°	4034.1	15.9
40°-50°	6866.2	27.0
50°-60°	6795.0	26.7
60°-70°	3101.4	12.2
70°-80°	398.3	1.6
80°-90°	44.9	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°	25425.6	100.0
0°-180°	25425.6	100.0



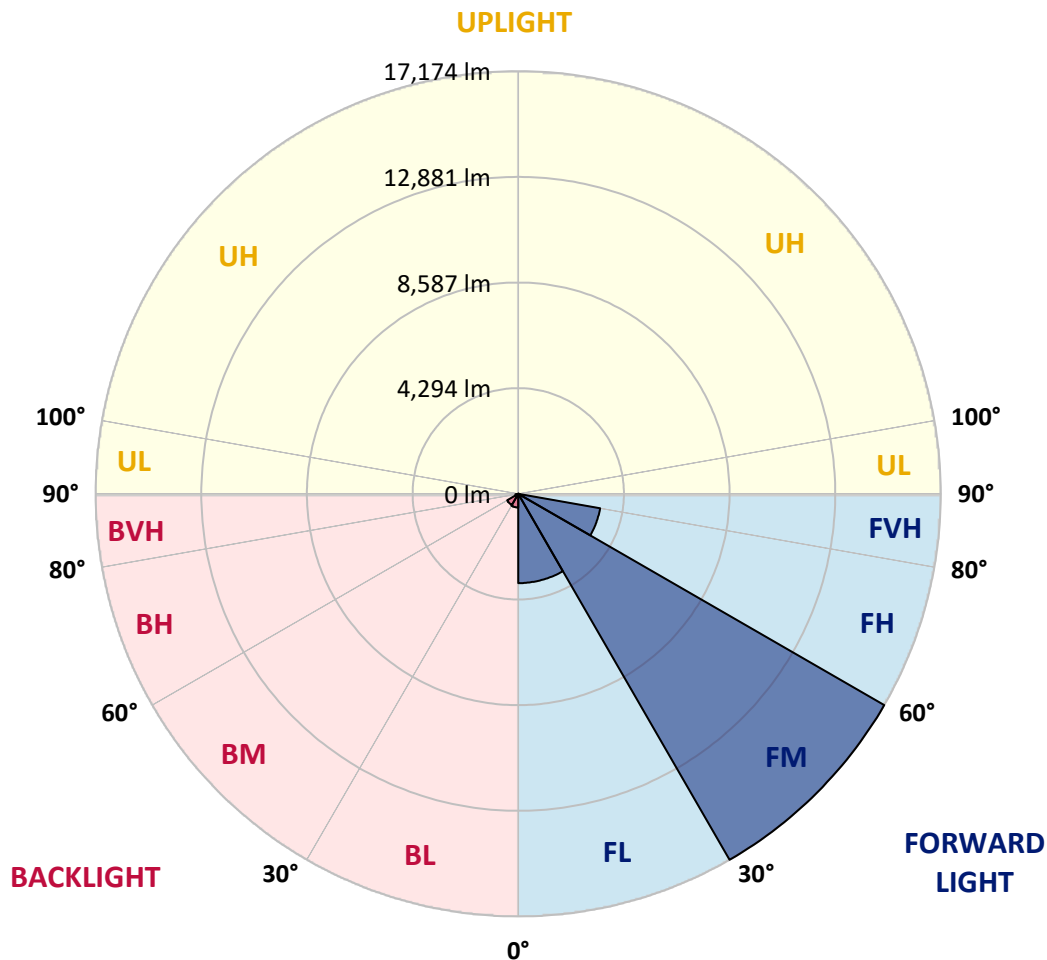
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3629.6	14.3			
FM (30°-60°)	17174.3	67.5			
FH (60°-80°)	3379.3	13.3			G2/5000
FVH (80°-90°)	40.1	0.2			G1/100
BL (0°-30°)	556.0	2.2	B2/1000		
BM (30°-60°)	521.1	2.0	B1/1000		
BH (60°-80°)	120.4	0.5	B1/500		G1/500
BVH (80°-90°)	4.8	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8
2.5°	7178.9	7129.2	7060.6	7007.5	6882.2	6702.1	6511.7	6511.7	6328.1	6072.6	5811.8
5°	8280.3	8247.7	8180.8	8043.5	7902.9	7650.7	7268.2	7201.3	6873.6	6410.5	5923.3
7.5°	8728.0	8743.4	8746.9	8710.8	8643.9	8395.2	8016.1	7969.8	7446.6	6825.6	6069.1
10°	8299.1	8374.6	8448.4	8597.7	8808.6	8868.6	8654.2	8606.2	8091.6	7245.9	6226.9
12.5°	7661.0	7702.1	7743.3	7978.4	8402.1	8887.5	9112.2	9110.5	8674.8	7664.4	6427.6
15°	7364.3	7400.3	7403.7	7508.3	7875.4	8582.1	9307.8	9333.5	9244.3	8180.8	6643.8
17.5°	7426.0	7455.2	7431.1	7456.9	7649.0	8245.9	9285.5	9371.3	9705.8	8676.5	6839.3
20°	7829.1	7885.7	7793.1	7721.0	7779.3	8156.7	9210.0	9330.1	10031.7	9160.2	7017.7
22.5°	8553.0	8583.9	8467.2	8270.0	8167.1	8343.7	9189.4	9307.8	10309.6	9556.5	7120.7
25°	9357.6	9347.2	9218.6	8997.3	8781.2	8721.1	9325.0	9431.3	10539.5	9913.3	7151.5
27.5°	10162.1	10192.9	9976.8	9702.3	9443.3	9287.2	9628.6	9707.5	10798.5	10319.9	7189.3
30°	11097.0	11047.2	10834.5	10520.6	10223.8	10006.0	10117.5	10139.8	11155.3	10858.5	7288.8
32.5°	12313.2	12176.0	11937.5	11388.6	11175.8	10807.0	10834.5	10861.9	11589.3	11392.0	7408.8
35°	13963.4	13956.5	13489.9	12750.6	12232.6	11774.5	11654.5	11676.8	12246.3	12184.5	7674.7
37.5°	15949.9	15977.3	15445.5	14701.1	13747.3	13020.0	12772.9	12776.4	13244.7	13279.0	8079.5
40°	17567.5	17639.5	17322.2	16819.5	15877.8	14740.5	14325.4	14287.6	14647.8	14605.0	8657.6
42.5°	18263.9	18330.8	18449.2	18624.1	18106.1	17167.7	16188.3	16239.7	16349.5	16049.3	9306.1
45°	17922.6	18028.9	18493.8	19574.5	20061.7	19746.0	18577.8	18397.8	17932.9	17618.9	9958.0
47.5°	16500.5	16759.5	17536.6	19336.0	21041.2	22108.2	21274.5	21036.0	19517.9	18764.8	10373.0
50°	14162.4	14177.9	15260.3	17560.6	20533.4	23598.8	24027.7	23849.3	20994.9	19408.1	10582.3
52.5°	10266.7	10604.6	11596.2	14260.2	18334.3	23372.4	25782.5	25708.8	22518.1	19737.5	10884.2
54°	7805.1	7870.2	8752.0	11395.5	15807.4	22128.8	25890.6	25907.7	23274.6	19936.4	11062.6
55°	6398.4	6242.4	7168.7	9707.5	14083.5	21029.2	25537.2	25619.6	23614.3	20039.4	11194.7
57.5°	3032.9	3034.5	3743.1	5120.5	8820.7	16328.9	23377.6	23669.2	23652.0	20216.0	11601.3
60°	1535.3	1545.6	1701.7	2363.8	4357.2	10855.1	19329.2	20024.0	21832.0	20241.8	11735.1
62.5°	1073.8	1061.8	1036.1	1137.3	1833.8	5516.8	14390.5	14994.4	18548.7	19262.3	11309.7
65°	919.5	893.7	821.7	806.3	926.3	2197.4	8963.0	9947.6	14162.4	16678.9	10098.6
67.5°	785.7	775.3	710.2	670.7	655.3	957.2	4624.7	5142.8	9680.1	11989.0	7649.0
70°	667.3	662.2	622.7	572.9	530.1	572.9	1715.4	2125.4	5394.9	6455.1	3609.2
72.5°	542.1	547.2	554.1	490.6	446.0	406.5	732.5	852.5	2257.5	2307.2	1262.5
75°	475.2	470.0	470.0	427.1	372.2	301.9	403.1	434.0	691.3	641.6	293.3
77.5°	334.5	322.5	377.4	351.6	310.5	214.5	229.9	243.6	286.5	245.3	137.3
80°	231.6	231.6	241.9	315.6	279.6	156.1	140.6	151.0	169.8	145.8	78.9
82.5°	130.4	133.8	157.9	168.1	162.9	104.6	92.6	94.4	113.2	99.5	49.7
85°	15.4	25.8	90.9	89.2	66.9	46.4	51.4	53.2	70.3	61.8	29.1
87.5°	1.7	3.4	18.9	24.0	17.1	18.9	18.9	18.9	24.0	27.5	20.6
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°	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8
2.5°	5671.1	5540.7	5230.3	4870.0	4640.1	4266.3	3950.5	3722.5	3665.8	3556.1	3588.6
5°	5664.3	5393.2	4760.2	4091.3	3377.6	2845.9	2449.6	2137.4	2000.2	1909.3	1845.8
7.5°	5667.7	5244.0	4228.5	3163.2	2310.6	1789.2	1422.1	1231.7	1104.7	1051.6	1058.4
10°	5678.0	5075.9	3611.0	2343.2	1559.3	1156.2	931.5	840.6	797.6	790.8	789.1
12.5°	5702.0	4892.3	3020.8	1739.4	1091.0	840.6	754.8	723.9	710.2	710.2	705.0
15°	5727.7	4689.9	2530.2	1293.4	840.6	722.2	682.7	667.3	658.7	658.7	657.0
17.5°	5727.7	4456.6	2072.2	1003.5	723.9	663.8	633.0	612.4	605.6	605.6	603.8
20°	5691.7	4185.6	1665.7	808.0	657.0	608.9	578.1	555.8	547.2	543.8	542.1
22.5°	5566.5	3823.6	1326.0	694.8	602.1	560.9	521.5	495.7	488.9	485.5	487.2
25°	5343.5	3415.4	1049.8	610.7	552.3	502.6	468.3	449.4	442.6	442.6	444.3
27.5°	5113.6	2988.2	831.9	547.2	492.4	447.7	420.2	408.3	406.5	411.7	413.4
30°	4901.0	2559.4	674.2	495.7	439.1	401.4	382.6	379.1	379.1	380.9	382.6
32.5°	4664.2	2183.7	564.4	451.2	396.3	363.7	353.4	353.4	356.8	356.8	360.3
35°	4514.9	1861.2	495.7	408.3	363.7	336.2	329.3	331.1	336.2	343.1	346.5
37.5°	4434.3	1603.9	451.2	374.0	332.8	313.9	307.1	310.5	322.5	334.5	336.2
40°	4441.2	1410.0	415.1	344.8	308.7	288.2	283.1	293.3	305.4	317.3	319.1
42.5°	4516.7	1266.0	380.9	310.5	288.2	259.0	257.3	267.6	272.7	284.8	286.5
45°	4605.8	1161.3	344.8	274.4	250.5	224.7	226.4	235.0	241.9	260.7	264.2
47.5°	4633.3	1089.3	303.6	233.3	205.9	197.2	199.0	204.1	217.8	235.0	236.7
50°	4664.2	1044.7	264.2	197.2	175.0	173.3	175.0	178.4	187.0	193.9	192.1
52.5°	4796.3	1043.0	231.6	171.6	149.2	152.7	154.4	152.7	145.8	135.5	132.1
54°	4919.7	1048.1	216.1	159.5	137.3	142.3	140.6	132.1	114.9	104.6	99.5
55°	5019.3	1053.3	207.6	151.0	130.4	132.1	133.8	116.7	94.4	84.0	80.6
57.5°	5214.9	1041.2	187.0	132.1	114.9	108.1	106.3	77.2	51.4	44.6	41.2
60°	5117.1	940.1	169.8	113.2	97.8	87.5	72.0	42.9	25.8	18.9	18.9
62.5°	4732.8	797.6	151.0	92.6	80.6	66.9	37.7	24.0	12.0	6.9	5.2
65°	4233.6	670.7	135.5	73.8	63.5	42.9	20.6	15.4	5.2	0.0	0.0
67.5°	3147.7	497.4	114.9	58.3	48.0	27.5	13.7	8.6	1.7	0.0	0.0
70°	1458.1	303.6	97.8	44.6	34.3	20.6	10.3	5.2	0.0	0.0	0.0
72.5°	418.6	190.4	80.6	32.6	24.0	17.1	8.6	3.4	1.7	0.0	0.0
75°	145.8	152.7	60.1	24.0	18.9	12.0	6.9	3.4	1.7	0.0	0.0
77.5°	87.5	123.5	37.7	20.6	15.4	10.3	6.9	3.4	1.7	1.7	0.0
80°	49.7	82.4	24.0	17.1	13.7	8.6	5.2	3.4	1.7	1.7	0.0
82.5°	27.5	39.5	18.9	15.4	12.0	8.6	5.2	3.4	1.7	1.7	1.7
85°	22.3	20.6	15.4	13.7	10.3	6.9	5.2	1.7	0.0	0.0	0.0
87.5°	17.1	13.7	13.7	13.7	10.3	6.9	5.2	1.7	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)