

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: P458806

Luminaire Tested: **GALN-SA3C-735-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458806  
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-SA3C-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA 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: 16018 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

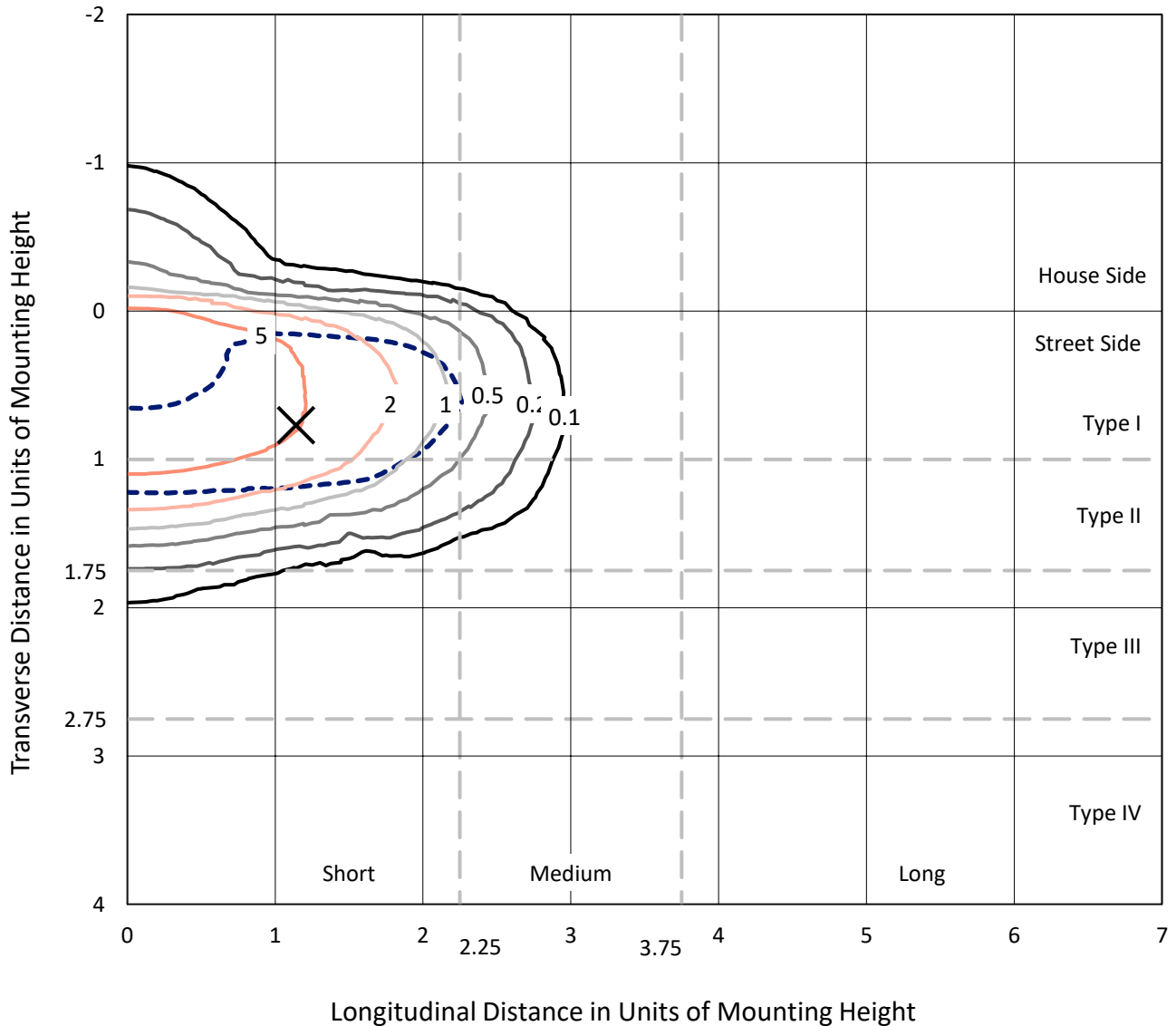
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

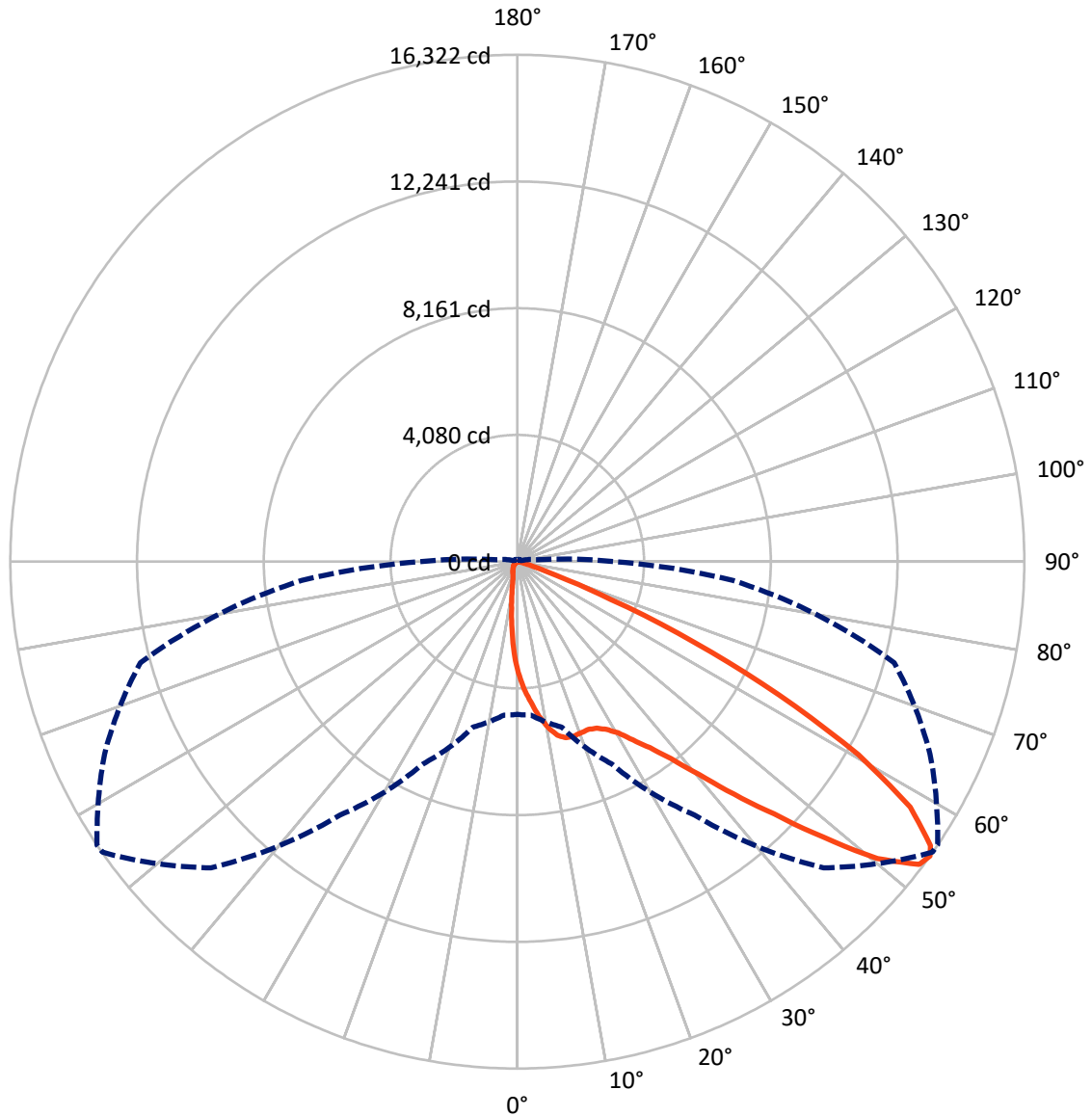
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	757.5	0.0	757.5
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	15260.5	0.0	15260.5
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	16018.0	0.0	16018.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.5	2.0
10°-20°	850.1	5.3
20°-30°	1472.3	9.2
30°-40°	2541.5	15.9
40°-50°	4325.7	27.0
50°-60°	4280.8	26.7
60°-70°	1953.9	12.2
70°-80°	250.9	1.6
80°-90°	28.3	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°	16018.0	100.0
0°-180°	16018.0	100.0

**Coefficient of Utilization**



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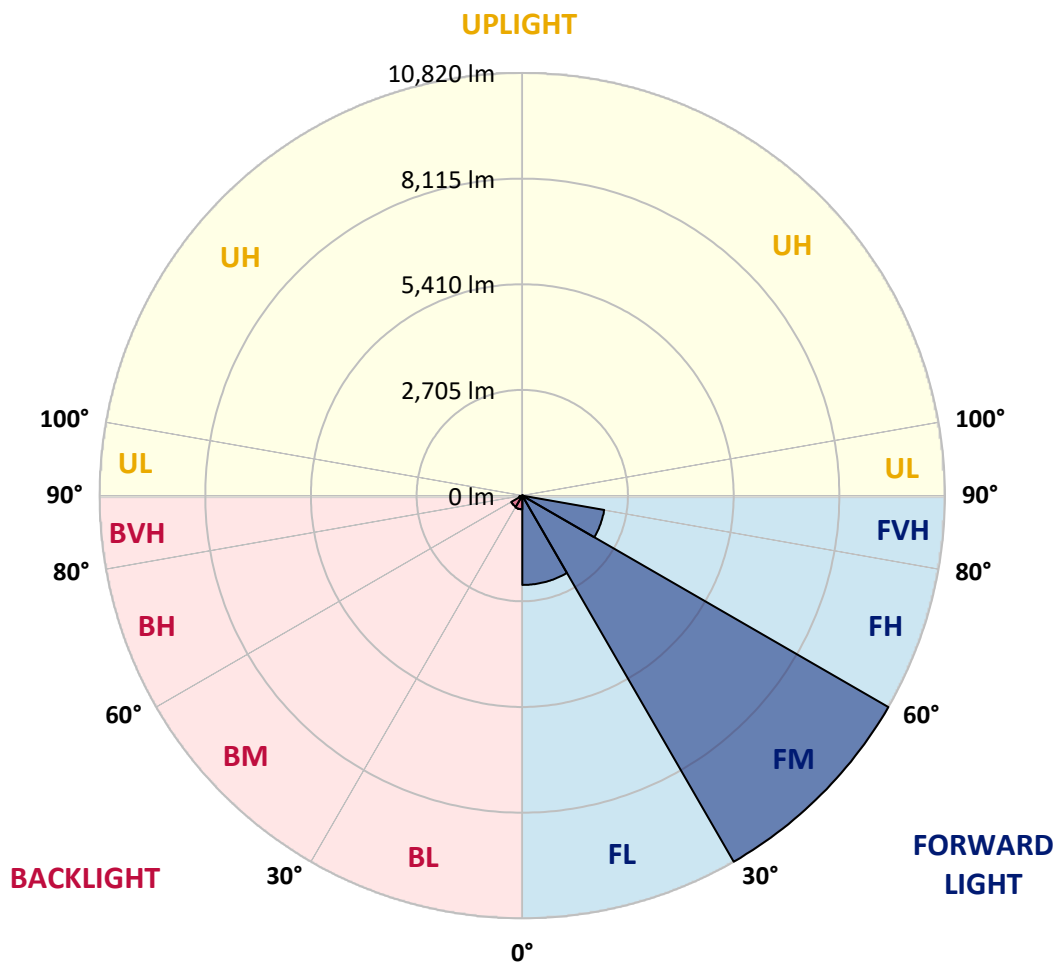
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2286.6	14.3			
FM (30°-60°)	10819.7	67.5			
FH (60°-80°)	2128.9	13.3			G2/5000
FVH (80°-90°)	25.2	0.2			G1/100
BL (0°-30°)	350.3	2.2	B1/500		
BM (30°-60°)	328.3	2.0	B1/1000		
BH (60°-80°)	75.8	0.5	B0/110		G0/110
BVH (80°-90°)	3.0	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°	56°	65°	75°	85°
0°	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7
2.5°	4522.7	4491.4	4448.2	4414.7	4335.8	4222.3	4102.3	4102.3	3986.7	3825.7	3661.4
5°	5216.5	5196.0	5153.8	5067.4	4978.8	4819.9	4578.9	4536.8	4330.4	4038.6	3731.7
7.5°	5498.6	5508.3	5510.5	5487.8	5445.6	5288.9	5050.1	5020.9	4691.3	4300.1	3823.5
10°	5228.4	5276.0	5322.4	5416.5	5549.4	5587.2	5452.1	5421.9	5097.7	4564.9	3922.9
12.5°	4826.4	4852.3	4878.3	5026.3	5293.3	5599.1	5740.7	5739.6	5465.1	4828.6	4049.4
15°	4639.4	4662.1	4664.3	4730.2	4961.5	5406.7	5863.9	5880.1	5823.9	5153.8	4185.5
17.5°	4678.3	4696.7	4681.6	4697.8	4818.8	5194.9	5849.8	5903.9	6114.6	5466.2	4308.7
20°	4932.3	4968.0	4909.6	4864.2	4901.0	5138.7	5802.3	5877.9	6319.9	5770.9	4421.1
22.5°	5388.4	5407.8	5334.3	5210.0	5145.2	5256.5	5789.3	5863.9	6495.0	6020.6	4486.0
25°	5895.2	5888.7	5807.7	5668.3	5532.1	5494.3	5874.7	5941.7	6639.8	6245.4	4505.4
27.5°	6402.1	6421.5	6285.3	6112.4	5949.2	5850.9	6066.0	6115.7	6803.0	6501.5	4529.2
30°	6991.0	6959.7	6825.7	6627.9	6441.0	6303.7	6374.0	6388.0	7027.8	6840.8	4591.9
32.5°	7757.3	7670.8	7520.6	7174.8	7040.7	6808.4	6825.7	6843.0	7301.2	7176.9	4667.5
35°	8796.9	8792.6	8498.6	8032.8	7706.5	7417.9	7342.3	7356.3	7715.1	7676.2	4835.0
37.5°	10048.3	10065.6	9730.6	9261.6	8660.7	8202.5	8046.9	8049.0	8344.1	8365.7	5090.1
40°	11067.4	11112.8	10912.9	10596.2	10002.9	9286.4	9024.9	9001.1	9228.1	9201.1	5454.3
42.5°	11506.2	11548.3	11622.9	11733.1	11406.8	10815.6	10198.5	10231.0	10300.1	10111.0	5862.8
45°	11291.1	11358.1	11651.0	12331.8	12638.8	12439.9	11704.0	11590.5	11297.6	11099.9	6273.5
47.5°	10395.2	10558.4	11048.0	12181.6	13255.8	13928.0	13402.8	13252.6	12296.2	11821.8	6535.0
50°	8922.2	8932.0	9613.9	11063.1	12936.0	14867.2	15137.3	15024.9	13226.7	12227.0	6666.8
52.5°	6468.0	6680.9	7305.5	8983.8	11550.5	14724.5	16242.9	16196.4	14186.3	12434.5	6857.0
54°	4917.2	4958.2	5513.7	7179.1	9958.6	13941.0	16311.0	16321.8	14662.9	12559.9	6969.4
55°	4031.0	3932.7	4516.2	6115.7	8872.5	13248.3	16088.4	16140.2	14876.9	12624.7	7052.6
57.5°	1910.7	1911.8	2358.1	3225.9	5557.0	10287.2	14727.8	14911.5	14900.7	12736.0	7308.8
60°	967.2	973.7	1072.1	1489.2	2745.0	6838.7	12177.3	12615.0	13754.0	12752.2	7393.1
62.5°	676.5	669.0	652.7	716.5	1155.3	3475.5	9066.0	9446.4	11685.6	12135.2	7125.0
65°	579.3	563.0	517.7	507.9	583.6	1384.4	5646.6	6267.0	8922.2	10507.6	6362.1
67.5°	495.0	488.5	447.4	422.6	412.8	603.0	2913.6	3239.9	6098.4	7553.0	4818.8
70°	420.4	417.1	392.3	361.0	333.9	361.0	1080.7	1339.0	3398.8	4066.7	2273.8
72.5°	341.5	344.7	349.1	309.1	281.0	256.1	461.5	537.1	1422.2	1453.5	795.4
75°	299.4	296.1	296.1	269.1	234.5	190.2	254.0	273.4	435.5	404.2	184.8
77.5°	210.7	203.2	237.8	221.5	195.6	135.1	144.8	153.5	180.5	154.5	86.5
80°	145.9	145.9	152.4	198.8	176.2	98.3	88.6	95.1	107.0	91.9	49.7
82.5°	82.1	84.3	99.4	105.9	102.7	65.9	58.4	59.4	71.3	62.7	31.3
85°	9.7	16.2	57.3	56.2	42.1	29.2	32.4	33.5	44.3	38.9	18.4
87.5°	1.1	2.2	11.9	15.1	10.8	11.9	11.9	11.9	15.1	17.3	13.0
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°	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7	3558.7
2.5°	3572.8	3490.7	3295.0	3068.1	2923.3	2687.7	2488.8	2345.1	2309.5	2240.3	2260.8
5°	3568.5	3397.7	2998.9	2577.5	2127.9	1792.9	1543.2	1346.5	1260.1	1202.8	1162.8
7.5°	3570.6	3303.7	2663.9	1992.8	1455.7	1127.2	895.9	775.9	696.0	662.5	666.8
10°	3577.1	3197.8	2274.9	1476.2	982.4	728.4	586.8	529.5	502.5	498.2	497.1
12.5°	3592.2	3082.2	1903.1	1095.8	687.3	529.5	475.5	456.1	447.4	447.4	444.2
15°	3608.5	2954.6	1594.0	814.8	529.5	455.0	430.1	420.4	415.0	415.0	413.9
17.5°	3608.5	2807.7	1305.5	632.2	456.1	418.2	398.8	385.8	381.5	381.5	380.4
20°	3585.8	2636.9	1049.4	509.0	413.9	383.6	364.2	350.1	344.7	342.6	341.5
22.5°	3506.9	2408.9	835.4	437.7	379.3	353.4	328.5	312.3	308.0	305.8	306.9
25°	3366.4	2151.7	661.4	384.7	348.0	316.6	295.0	283.1	278.8	278.8	279.9
27.5°	3221.6	1882.6	524.1	344.7	310.2	282.1	264.8	257.2	256.1	259.4	260.4
30°	3087.6	1612.4	424.7	312.3	276.7	252.9	241.0	238.8	238.8	239.9	241.0
32.5°	2938.4	1375.7	355.5	284.2	249.6	229.1	222.6	222.6	224.8	224.8	226.9
35°	2844.4	1172.6	312.3	257.2	229.1	211.8	207.5	208.6	211.8	216.1	218.3
37.5°	2793.6	1010.5	284.2	235.6	209.7	197.8	193.4	195.6	203.2	210.7	211.8
40°	2797.9	888.3	261.5	217.2	194.5	181.6	178.3	184.8	192.4	199.9	201.0
42.5°	2845.5	797.6	239.9	195.6	181.6	163.2	162.1	168.6	171.8	179.4	180.5
45°	2901.7	731.6	217.2	172.9	157.8	141.6	142.7	148.1	152.4	164.3	166.4
47.5°	2919.0	686.2	191.3	147.0	129.7	124.3	125.4	128.6	137.2	148.1	149.1
50°	2938.4	658.1	166.4	124.3	110.2	109.2	110.2	112.4	117.8	122.1	121.0
52.5°	3021.6	657.1	145.9	108.1	94.0	96.2	97.3	96.2	91.9	85.4	83.2
54°	3099.4	660.3	136.2	100.5	86.5	89.7	88.6	83.2	72.4	65.9	62.7
55°	3162.1	663.5	130.8	95.1	82.1	83.2	84.3	73.5	59.4	53.0	50.8
57.5°	3285.3	656.0	117.8	83.2	72.4	68.1	67.0	48.6	32.4	28.1	25.9
60°	3223.7	592.2	107.0	71.3	61.6	55.1	45.4	27.0	16.2	11.9	11.9
62.5°	2981.6	502.5	95.1	58.4	50.8	42.1	23.8	15.1	7.6	4.3	3.2
65°	2667.2	422.6	85.4	46.5	40.0	27.0	13.0	9.7	3.2	0.0	0.0
67.5°	1983.1	313.4	72.4	36.7	30.3	17.3	8.6	5.4	1.1	0.0	0.0
70°	918.6	191.3	61.6	28.1	21.6	13.0	6.5	3.2	0.0	0.0	0.0
72.5°	263.7	120.0	50.8	20.5	15.1	10.8	5.4	2.2	1.1	0.0	0.0
75°	91.9	96.2	37.8	15.1	11.9	7.6	4.3	2.2	1.1	0.0	0.0
77.5°	55.1	77.8	23.8	13.0	9.7	6.5	4.3	2.2	1.1	1.1	0.0
80°	31.3	51.9	15.1	10.8	8.6	5.4	3.2	2.2	1.1	1.1	0.0
82.5°	17.3	24.9	11.9	9.7	7.6	5.4	3.2	2.2	1.1	1.1	1.1
85°	14.0	13.0	9.7	8.6	6.5	4.3	3.2	1.1	0.0	0.0	0.0
87.5°	10.8	8.6	8.6	8.6	6.5	4.3	3.2	1.1	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)