

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: P458748

Luminaire Tested: **GALN-SA3A-735-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458748  
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-SA3A-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA 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: 10419 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

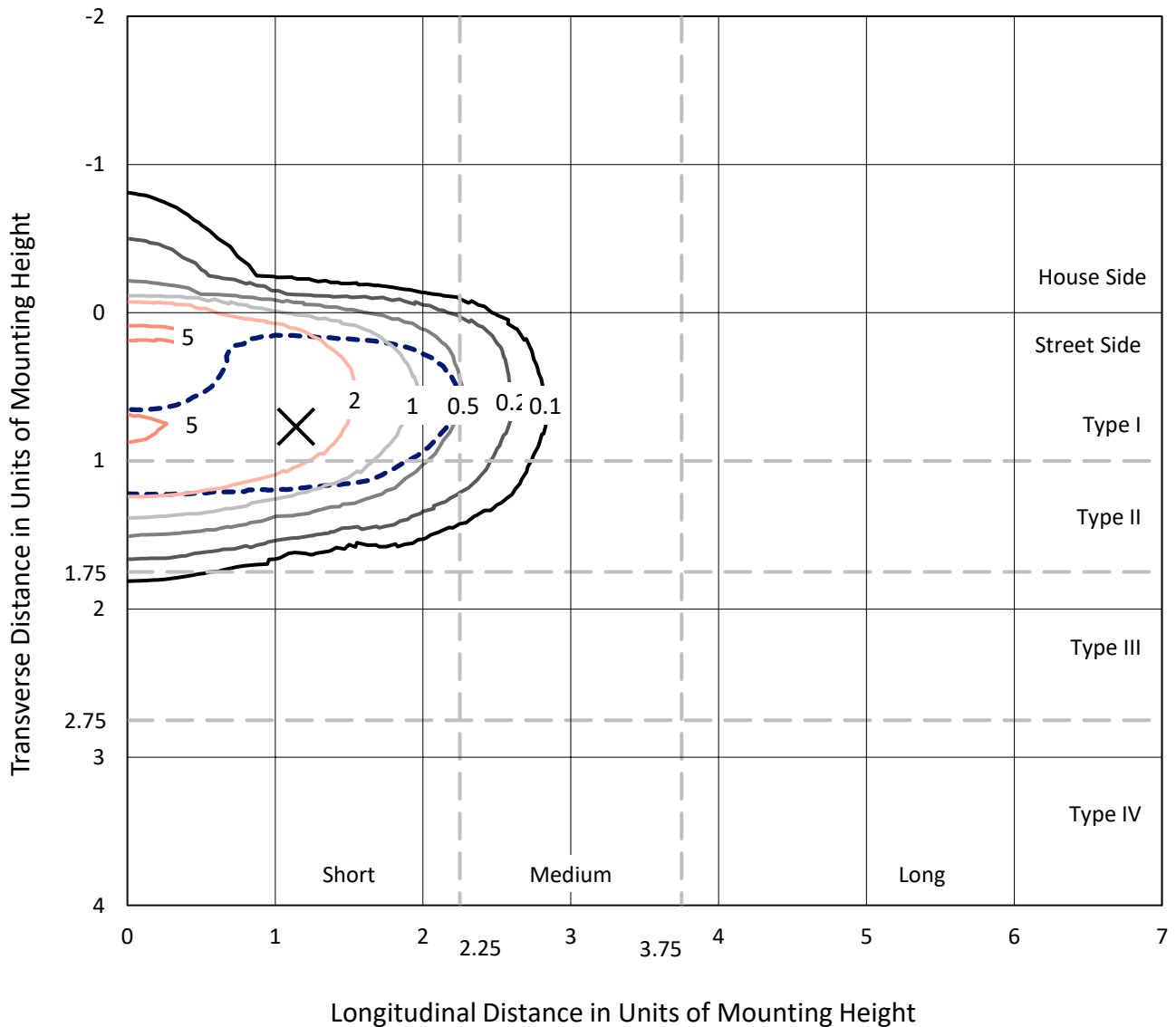
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

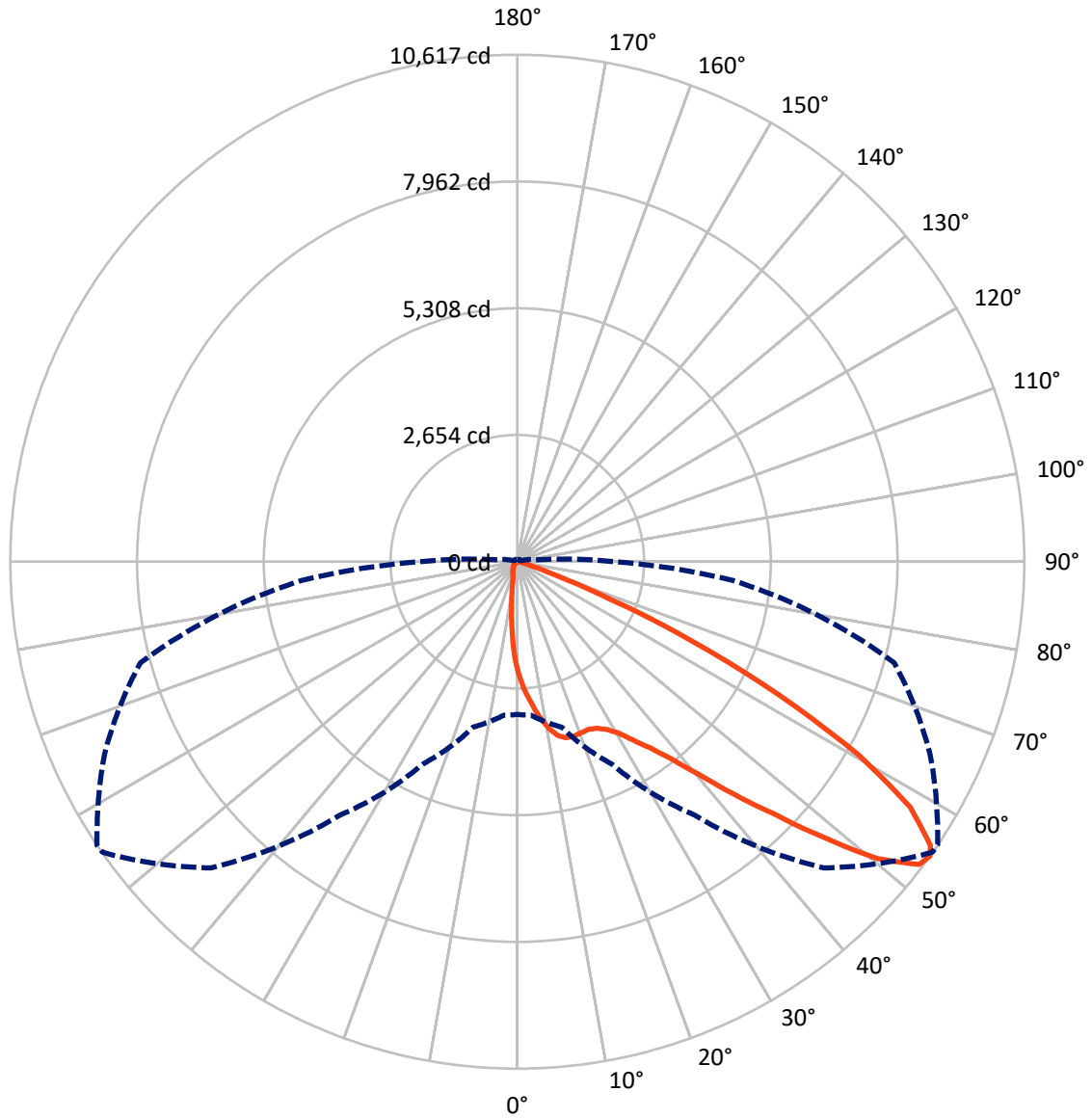
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	492.7	0.0	492.7
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	9926.3	0.0	9926.3
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	10419.0	0.0	10419.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.5	2.0
10°-20°	553.0	5.3
20°-30°	957.7	9.2
30°-40°	1653.1	15.9
40°-50°	2813.7	27.0
50°-60°	2784.5	26.7
60°-70°	1270.9	12.2
70°-80°	163.2	1.6
80°-90°	18.4	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°	10419.0	100.0
0°-180°	10419.0	100.0

**Coefficient of Utilization**



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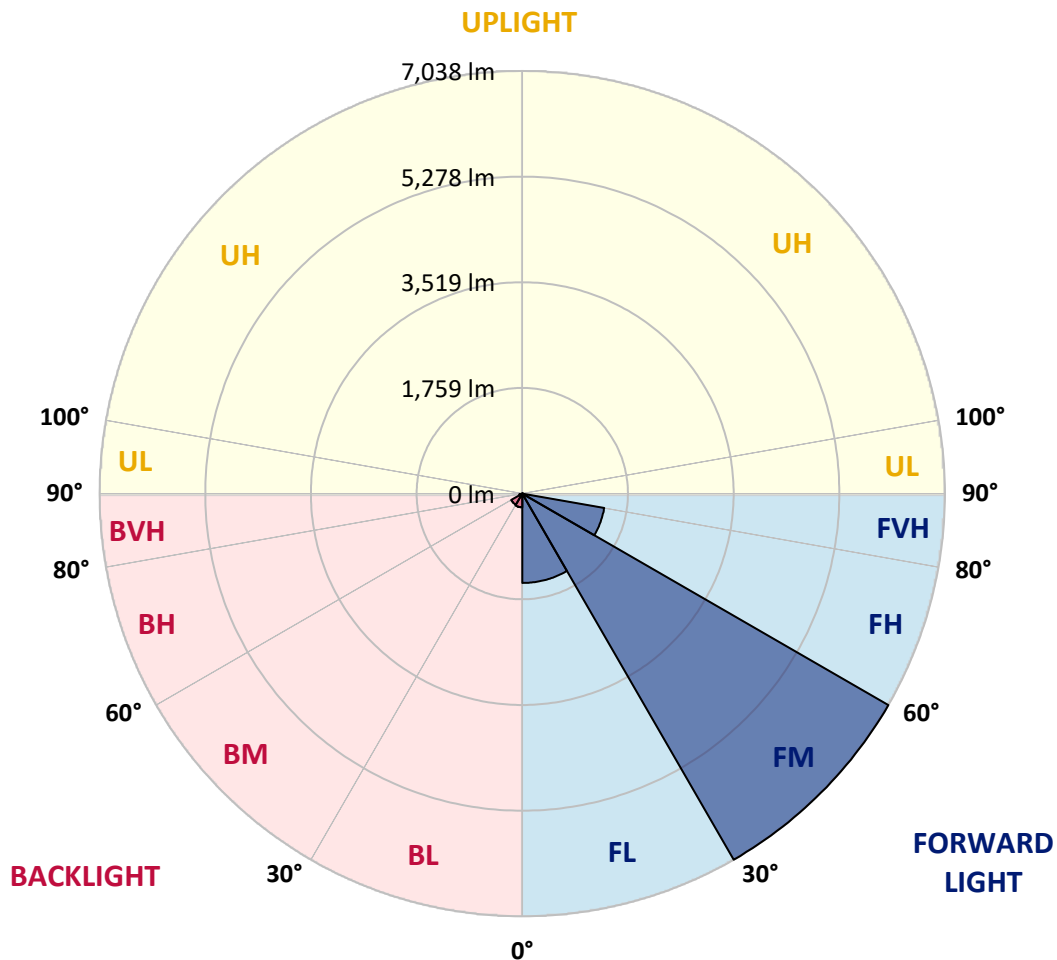
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.3	14.3			
FM (30°-60°)	7037.8	67.5			
FH (60°-80°)	1384.8	13.3			G1/1800
FVH (80°-90°)	16.4	0.2			G1/100
BL (0°-30°)	227.9	2.2	B1/500		
BM (30°-60°)	213.5	2.0	B0/220		
BH (60°-80°)	49.3	0.5	B0/110		G0/110
BVH (80°-90°)	2.0	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8
2.5°	2941.8	2921.4	2893.3	2871.5	2820.2	2746.4	2668.4	2668.4	2593.2	2488.4	2381.6
5°	3393.1	3379.8	3352.4	3296.1	3238.5	3135.1	2978.4	2951.0	2816.7	2626.9	2427.3
7.5°	3576.6	3582.9	3584.3	3569.6	3542.1	3440.2	3284.9	3265.9	3051.5	2797.0	2487.0
10°	3400.9	3431.8	3462.0	3523.2	3609.6	3634.2	3546.4	3526.7	3315.8	2969.2	2551.7
12.5°	3139.4	3156.2	3173.1	3269.4	3443.0	3642.0	3734.1	3733.3	3554.8	3140.8	2633.9
15°	3017.7	3032.5	3033.9	3076.8	3227.2	3516.8	3814.2	3824.7	3788.2	3352.4	2722.5
17.5°	3043.1	3055.0	3045.2	3055.7	3134.4	3379.1	3805.0	3840.2	3977.3	3555.5	2802.6
20°	3208.2	3231.4	3193.5	3164.0	3187.9	3342.5	3774.1	3823.3	4110.8	3753.7	2875.8
22.5°	3504.9	3517.5	3469.7	3388.9	3346.7	3419.1	3765.7	3814.2	4224.7	3916.1	2917.9
25°	3834.6	3830.4	3777.6	3687.0	3598.4	3573.8	3821.2	3864.8	4318.9	4062.3	2930.6
27.5°	4164.3	4176.9	4088.3	3975.9	3869.7	3805.8	3945.6	3978.0	4425.0	4228.9	2946.0
30°	4547.4	4527.0	4439.8	4311.2	4189.6	4100.3	4146.0	4155.1	4571.3	4449.7	2986.8
32.5°	5045.7	4989.5	4891.8	4666.9	4579.7	4428.6	4439.8	4451.1	4749.1	4668.3	3036.0
35°	5722.0	5719.2	5528.0	5225.0	5012.7	4825.0	4775.8	4785.0	5018.3	4993.0	3145.0
37.5°	6536.0	6547.2	6329.3	6024.3	5633.4	5335.4	5234.1	5235.5	5427.4	5441.5	3310.9
40°	7198.9	7228.4	7098.4	6892.4	6506.5	6040.4	5870.3	5854.8	6002.5	5984.9	3547.8
42.5°	7484.3	7511.7	7560.2	7631.9	7419.6	7035.1	6633.7	6654.8	6699.8	6576.8	3813.5
45°	7344.4	7388.0	7578.5	8021.3	8221.0	8091.6	7612.9	7539.1	7348.6	7220.0	4080.6
47.5°	6761.6	6867.8	7186.2	7923.6	8622.3	9059.6	8717.9	8620.2	7998.1	7689.5	4250.7
50°	5803.5	5809.9	6253.4	7196.1	8414.3	9670.4	9846.2	9773.1	8603.4	7953.1	4336.5
52.5°	4207.1	4345.6	4751.9	5843.6	7513.1	9577.6	10565.3	10535.1	9227.6	8088.1	4460.2
54°	3198.4	3225.1	3586.4	4669.7	6477.7	9068.0	10609.6	10616.6	9537.6	8169.6	4533.3
55°	2622.0	2558.0	2937.6	3978.0	5771.2	8617.4	10464.8	10498.5	9676.8	8211.8	4587.4
57.5°	1242.8	1243.5	1533.8	2098.3	3614.6	6691.3	9579.8	9699.3	9692.2	8284.2	4754.0
60°	629.1	633.4	697.3	968.7	1785.5	4448.2	7920.8	8205.5	8946.4	8294.8	4808.9
62.5°	440.0	435.1	424.6	466.1	751.4	2260.7	5897.0	6144.5	7601.0	7893.4	4634.5
65°	376.8	366.2	336.7	330.4	379.6	900.5	3672.9	4076.4	5803.5	6834.7	4138.2
67.5°	321.9	317.7	291.0	274.9	268.5	392.2	1895.1	2107.4	3966.7	4912.9	3134.4
70°	273.4	271.3	255.2	234.8	217.2	234.8	702.9	871.0	2210.8	2645.2	1479.0
72.5°	222.1	224.2	227.1	201.0	182.8	166.6	300.2	349.4	925.1	945.5	517.4
75°	194.7	192.6	192.6	175.0	152.5	123.7	165.2	177.8	283.3	262.9	120.2
77.5°	137.1	132.2	154.6	144.1	127.2	87.9	94.2	99.8	117.4	100.5	56.2
80°	94.9	94.9	99.1	129.3	114.6	64.0	57.6	61.9	69.6	59.8	32.3
82.5°	53.4	54.8	64.7	68.9	66.8	42.9	38.0	38.7	46.4	40.8	20.4
85°	6.3	10.5	37.3	36.6	27.4	19.0	21.1	21.8	28.8	25.3	12.0
87.5°	0.7	1.4	7.7	9.8	7.0	7.7	7.7	7.7	9.8	11.2	8.4
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°	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8
2.5°	2323.9	2270.5	2143.3	1995.7	1901.5	1748.2	1618.9	1525.4	1502.2	1457.2	1470.6
5°	2321.1	2210.1	1950.7	1676.5	1384.1	1166.2	1003.8	875.9	819.6	782.4	756.4
7.5°	2322.5	2148.9	1732.8	1296.2	946.9	733.2	582.7	504.7	452.7	430.9	433.7
10°	2326.8	2080.0	1479.7	960.2	639.0	473.8	381.7	344.4	326.9	324.1	323.4
12.5°	2336.6	2004.8	1237.9	712.8	447.1	344.4	309.3	296.6	291.0	291.0	288.9
15°	2347.1	1921.9	1036.8	530.0	344.4	295.9	279.8	273.4	269.9	269.9	269.2
17.5°	2347.1	1826.3	849.2	411.2	296.6	272.0	259.4	251.0	248.1	248.1	247.4
20°	2332.4	1715.2	682.6	331.1	269.2	249.5	236.9	227.8	224.2	222.8	222.1
22.5°	2281.1	1566.9	543.4	284.7	246.7	229.9	213.7	203.2	200.3	198.9	199.6
25°	2189.7	1399.6	430.2	250.2	226.3	206.0	191.9	184.2	181.4	181.4	182.1
27.5°	2095.5	1224.5	340.9	224.2	201.7	183.5	172.2	167.3	166.6	168.7	169.4
30°	2008.3	1048.8	276.3	203.2	180.0	164.5	156.8	155.4	155.4	156.1	156.8
32.5°	1911.3	894.9	231.3	184.9	162.4	149.0	144.8	144.8	146.2	146.2	147.6
35°	1850.2	762.7	203.2	167.3	149.0	137.8	135.0	135.7	137.8	140.6	142.0
37.5°	1817.1	657.3	184.9	153.2	136.4	128.6	125.8	127.2	132.2	137.1	137.8
40°	1819.9	577.8	170.1	141.3	126.5	118.1	116.0	120.2	125.1	130.0	130.7
42.5°	1850.9	518.8	156.1	127.2	118.1	106.1	105.4	109.7	111.8	116.7	117.4
45°	1887.4	475.9	141.3	112.5	102.6	92.1	92.8	96.3	99.1	106.8	108.3
47.5°	1898.7	446.4	124.4	95.6	84.4	80.8	81.5	83.7	89.3	96.3	97.0
50°	1911.3	428.1	108.3	80.8	71.7	71.0	71.7	73.1	76.6	79.4	78.7
52.5°	1965.4	427.4	94.9	70.3	61.2	62.6	63.3	62.6	59.8	55.5	54.1
54°	2016.1	429.5	88.6	65.4	56.2	58.3	57.6	54.1	47.1	42.9	40.8
55°	2056.8	431.6	85.1	61.9	53.4	54.1	54.8	47.8	38.7	34.4	33.0
57.5°	2137.0	426.7	76.6	54.1	47.1	44.3	43.6	31.6	21.1	18.3	16.9
60°	2096.9	385.2	69.6	46.4	40.1	35.9	29.5	17.6	10.5	7.7	7.7
62.5°	1939.4	326.9	61.9	38.0	33.0	27.4	15.5	9.8	4.9	2.8	2.1
65°	1734.9	274.9	55.5	30.2	26.0	17.6	8.4	6.3	2.1	0.0	0.0
67.5°	1289.9	203.9	47.1	23.9	19.7	11.2	5.6	3.5	0.7	0.0	0.0
70°	597.5	124.4	40.1	18.3	14.1	8.4	4.2	2.1	0.0	0.0	0.0
72.5°	171.5	78.0	33.0	13.4	9.8	7.0	3.5	1.4	0.7	0.0	0.0
75°	59.8	62.6	24.6	9.8	7.7	4.9	2.8	1.4	0.7	0.0	0.0
77.5°	35.9	50.6	15.5	8.4	6.3	4.2	2.8	1.4	0.7	0.7	0.0
80°	20.4	33.7	9.8	7.0	5.6	3.5	2.1	1.4	0.7	0.7	0.0
82.5°	11.2	16.2	7.7	6.3	4.9	3.5	2.1	1.4	0.7	0.7	0.7
85°	9.1	8.4	6.3	5.6	4.2	2.8	2.1	0.7	0.0	0.0	0.0
87.5°	7.0	5.6	5.6	5.6	4.2	2.8	2.1	0.7	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)