

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: P647031

Luminaire Tested: **GALN-SA6C-835-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647031  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-835-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23614.5 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

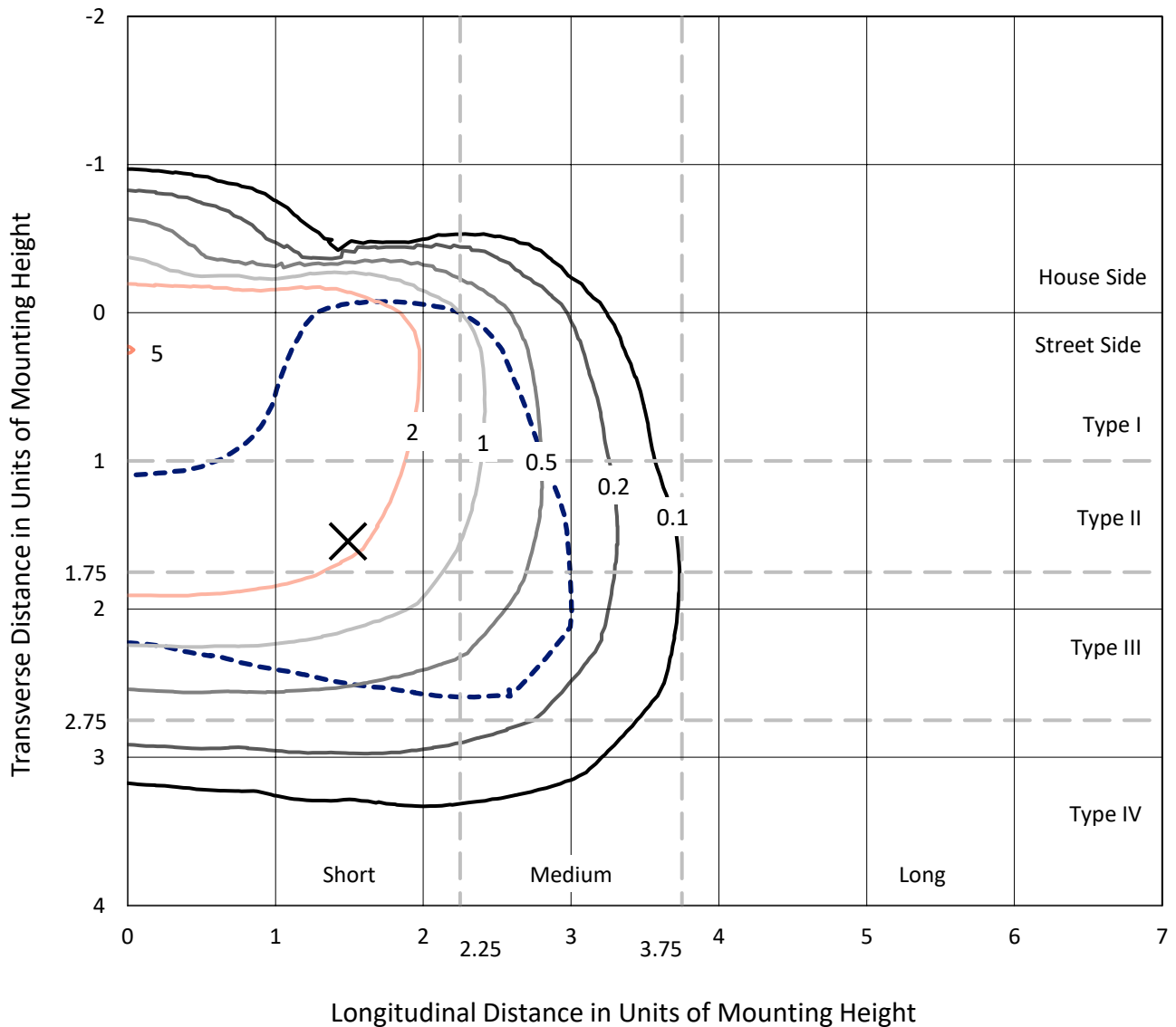
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

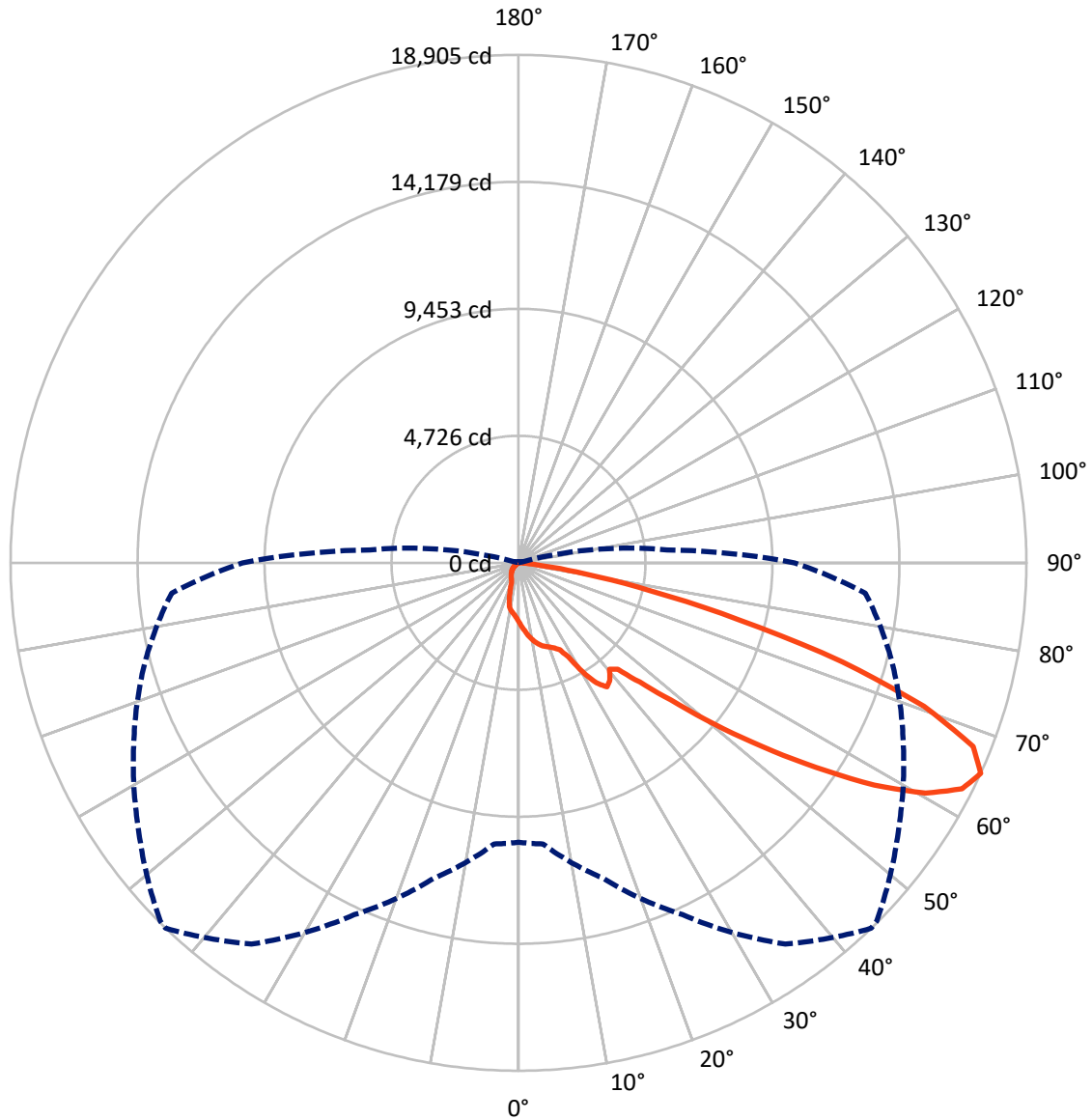
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2175.7	0.0	2175.7
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	21438.8	0.0	21438.8
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	23614.5	0.0	23614.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.6	0.9
10°-20°	657.9	2.8
20°-30°	1115.6	4.7
30°-40°	1854.8	7.9
40°-50°	3238.5	13.7
50°-60°	6326.9	26.8
60°-70°	7340.7	31.1
70°-80°	2673.1	11.3
80°-90°	188.3	0.8
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°	23614.5	100.0
0°-180°	23614.5	100.0

**Coefficient of Utilization**

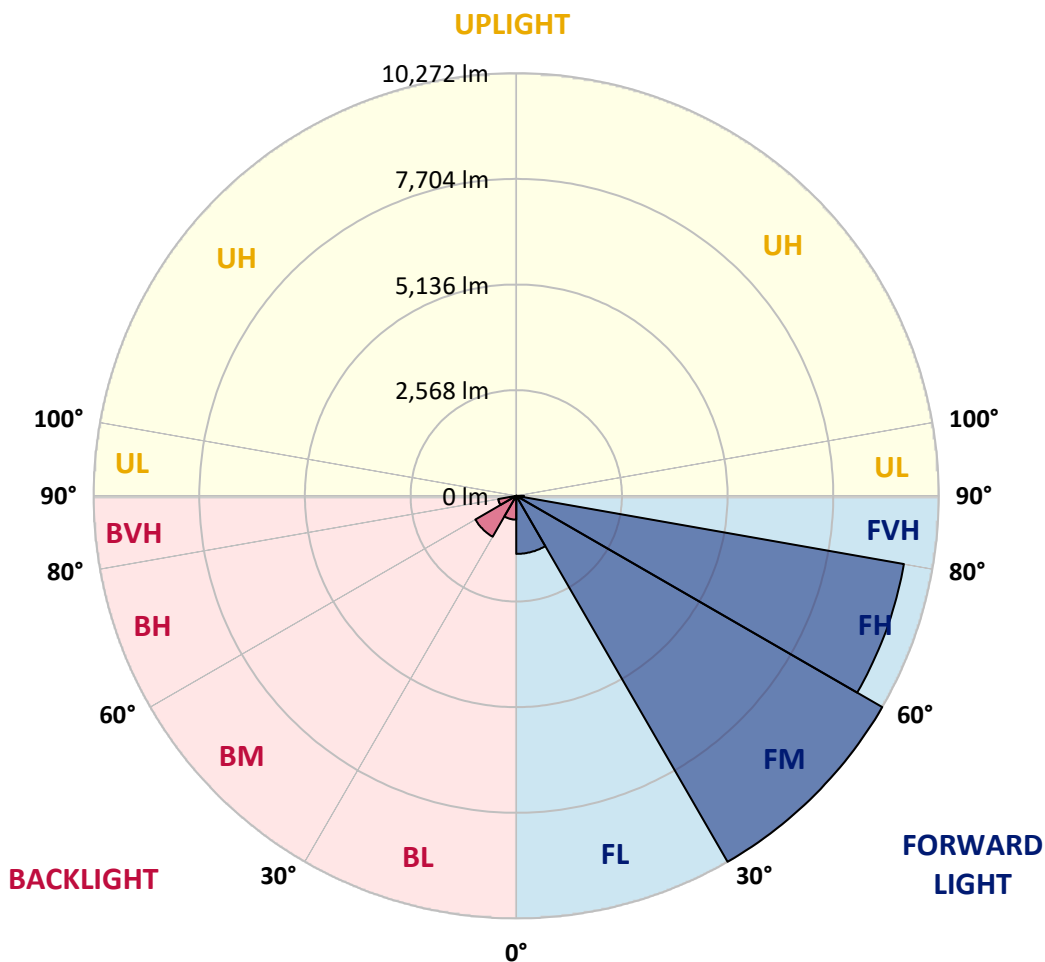


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1412.4	6.0			
FM (30°-60°)	10272.4	43.5			
FH (60°-80°)	9568.3	40.5			G4/12000
FVH (80°-90°)	185.8	0.8			G2/225
BL (0°-30°)	579.7	2.5	B2/1000		
BM (30°-60°)	1147.9	4.9	B2/2500		
BH (60°-80°)	445.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.6	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8
2.5°	2473.9	2463.1	2457.7	2428.8	2407.1	2380.1	2380.1	2345.8	2306.1	2262.8	2223.1
5°	2750.0	2731.9	2708.5	2683.2	2632.7	2560.5	2560.5	2488.3	2405.3	2331.3	2250.1
7.5°	3015.3	2999.0	2959.3	2910.6	2827.6	2751.8	2746.4	2641.7	2542.5	2430.6	2315.1
10°	3248.0	3235.4	3201.1	3107.3	3020.7	2921.4	2919.6	2802.3	2686.8	2549.7	2407.1
12.5°	3410.4	3412.2	3367.1	3276.9	3165.0	3071.2	3064.0	2948.5	2827.6	2679.6	2504.6
15°	3525.8	3525.8	3478.9	3377.9	3276.9	3193.9	3186.7	3085.6	2961.1	2800.5	2611.0
17.5°	3558.3	3569.1	3518.6	3428.4	3347.2	3275.1	3273.3	3188.5	3089.2	2934.0	2719.3
20°	3545.7	3556.5	3516.8	3446.5	3390.5	3349.0	3343.6	3309.3	3217.3	3071.2	2834.8
22.5°	3518.6	3529.5	3500.6	3459.1	3432.0	3444.7	3435.6	3464.5	3415.8	3239.0	2971.9
25°	3524.0	3534.9	3513.2	3489.8	3513.2	3590.8	3614.3	3738.8	3695.5	3451.9	3119.9
27.5°	3693.6	3715.3	3684.6	3695.5	3778.5	3958.9	4004.0	4218.8	4027.5	3722.5	3350.8
30°	4070.8	4056.4	3998.6	4050.9	4339.7	4722.2	4709.6	4675.3	4375.8	4034.7	3625.1
32.5°	4413.7	4401.0	4397.4	4623.0	5146.3	5332.2	5323.1	4991.1	4687.9	4392.0	3895.8
35°	4552.6	4503.9	4493.1	5039.8	5914.9	5669.5	5613.6	5121.0	5066.9	4781.8	4171.8
37.5°	4971.2	4937.0	4769.1	5108.4	5608.2	5527.0	5483.7	5344.8	5471.1	5126.4	4484.0
40°	5833.7	5738.1	5586.5	5254.6	5173.4	5207.6	5250.9	5631.6	5949.2	5597.4	4900.9
42.5°	6905.6	6883.9	6602.4	5983.5	5375.5	5422.4	5478.3	6230.7	6636.7	6306.5	5581.1
45°	8192.1	8222.8	7816.8	7086.0	6288.4	6328.1	6409.3	7114.9	7567.9	7409.1	6651.2
47.5°	9361.4	9338.0	9200.8	8441.1	7705.0	7616.6	7748.3	8249.9	8856.2	8881.4	7979.2
50°	10537.9	10662.4	10458.5	10160.8	9614.1	9428.2	9379.5	9624.9	10548.7	10427.8	9574.4
52.5°	12228.7	12293.6	11911.1	11835.3	11959.8	11357.1	11308.4	11368.0	12194.4	11779.4	10768.9
55°	13291.5	13253.6	13111.0	13702.9	14195.5	13443.1	13381.7	13141.7	13560.4	12733.9	11918.3
57.5°	13627.1	13681.3	14013.3	15083.3	16249.0	15610.2	15498.3	14816.2	14545.6	13623.5	12975.7
60°	13477.3	13576.6	14293.0	15884.5	17501.2	17405.6	17309.9	16164.2	15252.9	14367.0	13717.3
62.5°	12410.9	12549.8	13695.7	15741.9	17925.3	18522.6	18403.5	17005.0	15723.9	14727.8	13847.3
65°	10400.7	10503.6	12149.3	14448.2	17322.6	18905.1	18861.8	17268.4	15797.9	14397.6	12957.6
67.5°	7414.5	7764.5	9289.3	12176.4	15539.8	18251.9	18325.9	16952.7	15103.1	12970.3	10731.0
70°	4660.9	4899.1	5992.5	8717.2	12457.8	16012.6	16256.2	15507.3	13107.4	10110.3	7183.5
72.5°	2223.1	2399.9	3179.4	5518.0	8793.0	12598.5	12791.6	12730.3	10135.5	6369.7	3706.3
75°	990.7	1057.4	1517.5	2816.8	5676.8	8468.2	8968.1	9051.1	6333.6	3116.3	1441.7
77.5°	505.3	507.1	711.0	1364.1	2834.8	5052.5	5151.7	5442.2	3433.8	1373.1	501.7
80°	268.9	286.9	377.1	644.2	1470.6	2488.3	2475.7	2721.1	1522.9	673.1	167.8
82.5°	120.9	133.5	212.9	337.4	718.2	943.7	1017.7	1113.3	653.2	429.5	74.0
85°	36.1	43.3	104.7	169.6	259.9	272.5	305.0	393.4	369.9	305.0	37.9
87.5°	5.4	5.4	43.3	46.9	37.9	48.7	50.5	55.9	119.1	111.9	19.8
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°	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8
2.5°	2201.4	2188.8	2143.7	2105.8	2073.3	2053.4	2030.0	2015.5	2008.3	2002.9	2004.7
5°	2210.4	2179.8	2102.2	2040.8	1993.9	1943.4	1909.1	1889.2	1880.2	1865.8	1865.8
7.5°	2261.0	2212.2	2104.0	2010.1	1928.9	1860.4	1795.4	1771.9	1755.7	1752.1	1748.5
10°	2333.1	2271.8	2123.8	1993.9	1878.4	1784.6	1692.5	1611.3	1548.2	1510.3	1504.9
12.5°	2423.4	2334.9	2154.5	1983.1	1835.1	1669.1	1425.5	1261.3	1151.2	1116.9	1122.4
15°	2506.4	2410.7	2185.2	1974.0	1755.7	1384.0	1107.9	920.3	864.4	859.0	860.8
17.5°	2605.6	2491.9	2221.3	1961.4	1537.3	1057.4	822.9	772.3	783.2	801.2	799.4
20°	2708.5	2578.6	2264.6	1885.6	1227.0	795.8	727.2	732.6	748.9	765.1	768.7
22.5°	2818.6	2677.8	2315.1	1703.4	936.5	692.9	689.3	696.5	712.8	730.8	734.4
25°	2970.1	2802.3	2353.0	1465.2	709.2	640.6	647.8	660.5	674.9	694.7	698.3
27.5°	3165.0	2970.1	2372.8	1154.8	613.5	593.7	595.5	613.5	631.6	649.6	649.6
30°	3417.6	3170.4	2333.1	873.4	566.6	548.6	541.4	552.2	575.6	593.7	595.5
32.5°	3643.1	3359.9	2228.5	667.7	532.3	507.1	489.0	490.8	499.9	510.7	512.5
35°	3868.7	3543.9	2049.8	561.2	496.2	467.4	440.3	425.9	418.6	413.2	418.6
37.5°	4157.4	3773.0	1811.6	510.7	465.6	429.5	391.6	360.9	335.6	319.4	323.0
40°	4529.1	4090.6	1530.1	478.2	436.7	393.4	342.9	303.2	259.9	245.4	238.2
42.5°	5142.7	4572.4	1234.2	451.1	407.8	355.5	292.3	238.2	198.5	184.1	187.7
45°	6111.6	5180.6	951.0	422.3	378.9	314.0	245.4	187.7	155.2	148.0	151.6
47.5°	7396.4	5967.2	732.6	389.8	342.9	268.9	193.1	148.0	128.1	126.3	124.5
50°	8605.3	6699.9	611.7	353.7	299.6	223.8	158.8	124.5	111.9	110.1	110.1
52.5°	9698.9	7225.0	498.0	312.2	252.6	184.1	133.5	110.1	99.2	93.8	93.8
55°	10671.4	7567.9	404.2	261.7	198.5	146.2	115.5	99.2	86.6	79.4	77.6
57.5°	11405.9	7609.4	303.2	209.3	148.0	113.7	99.2	86.6	72.2	63.2	59.5
60°	11719.8	7250.3	223.8	158.8	110.1	90.2	79.4	70.4	54.1	45.1	43.3
62.5°	11404.1	6551.9	166.0	120.9	84.8	66.8	55.9	52.3	37.9	27.1	25.3
65°	10272.6	5543.2	131.7	92.0	63.2	48.7	36.1	34.3	23.5	12.6	10.8
67.5°	8230.0	4341.5	104.7	68.6	45.1	32.5	23.5	21.7	12.6	3.6	3.6
70°	5352.0	2775.2	84.8	50.5	28.9	21.7	14.4	10.8	7.2	1.8	0.0
72.5°	2647.1	1297.4	68.6	39.7	19.8	10.8	5.4	3.6	5.4	0.0	0.0
75°	1026.7	462.0	50.5	27.1	10.8	5.4	3.6	0.0	1.8	0.0	0.0
77.5°	341.1	153.4	30.7	14.4	7.2	3.6	0.0	0.0	0.0	0.0	0.0
80°	126.3	59.5	16.2	9.0	3.6	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	50.5	23.5	10.8	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.3	14.4	7.2	5.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.0	10.8	7.2	5.4	3.6	1.8	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)