

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: P459172

Luminaire Tested: **GALN-SA6C-735-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28513 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

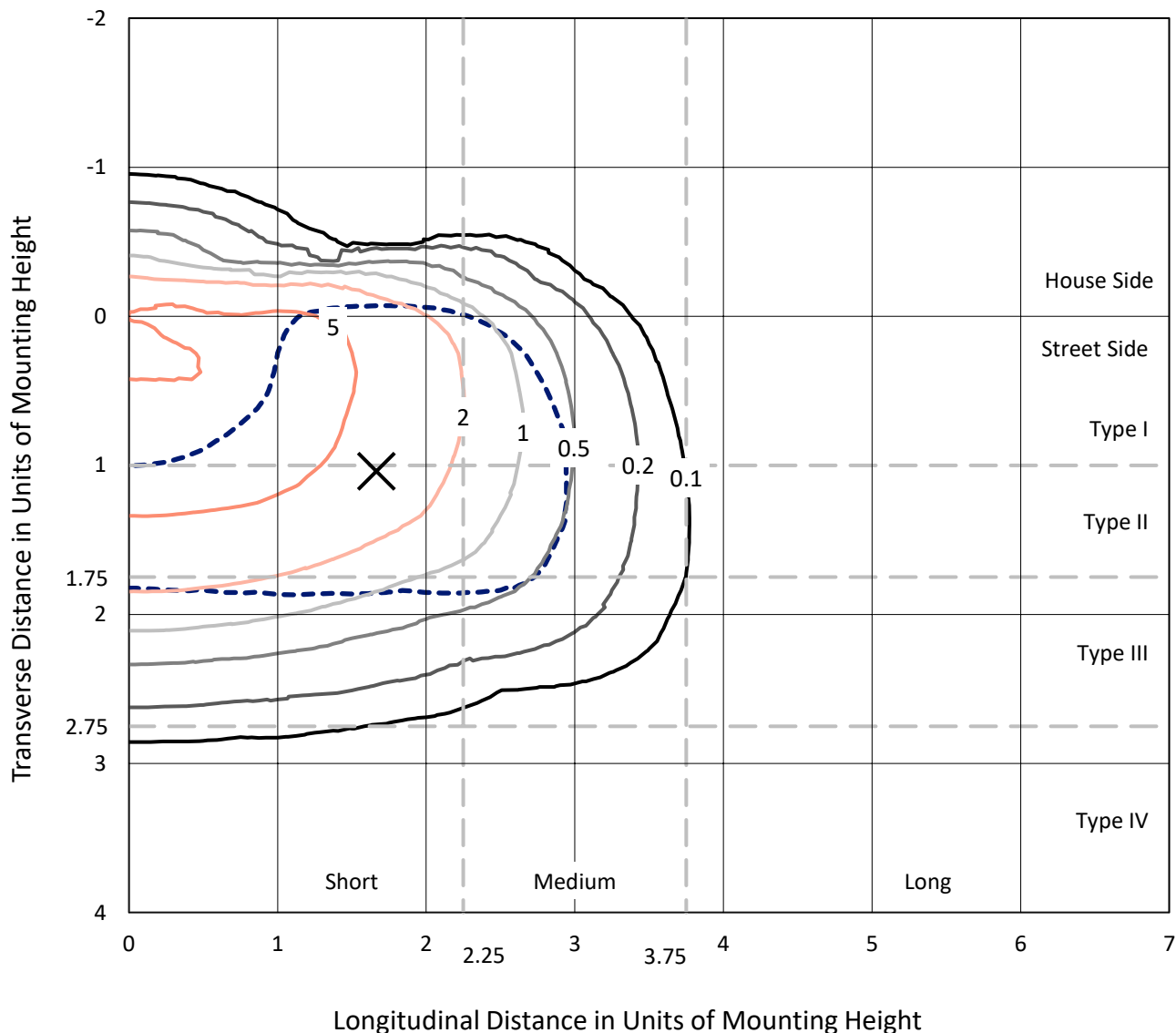
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

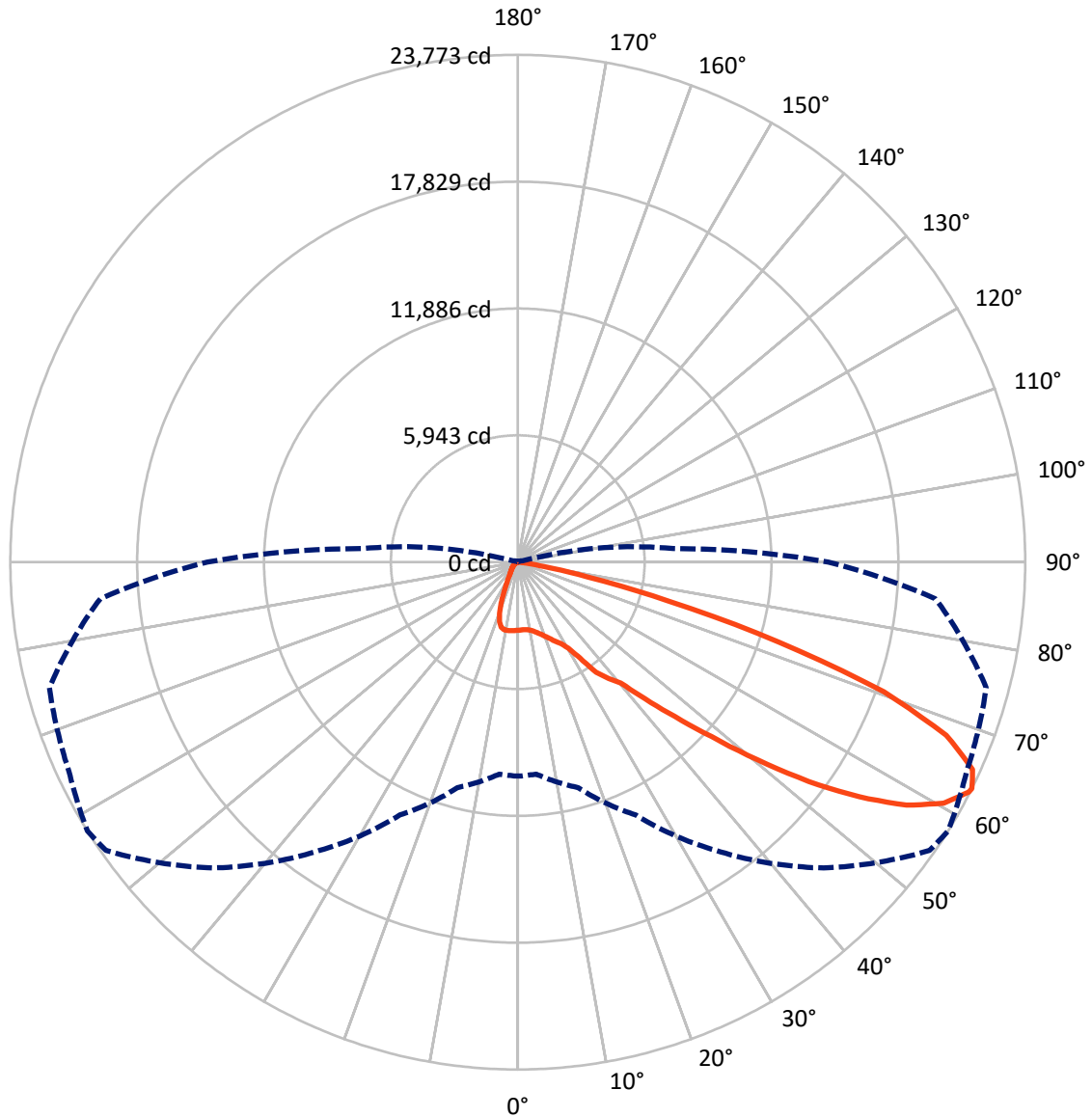
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2952.3	0.0	2952.3
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	25560.7	0.0	25560.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	28513.0	0.0	28513.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.8	1.0
10°-20°	813.9	2.9
20°-30°	1412.6	5.0
30°-40°	2595.7	9.1
40°-50°	4886.4	17.1
50°-60°	8357.9	29.3
60°-70°	8002.7	28.1
70°-80°	2040.7	7.2
80°-90°	104.3	0.4
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°	28513.0	100.0
0°-180°	28513.0	100.0

**Coefficient of Utilization**



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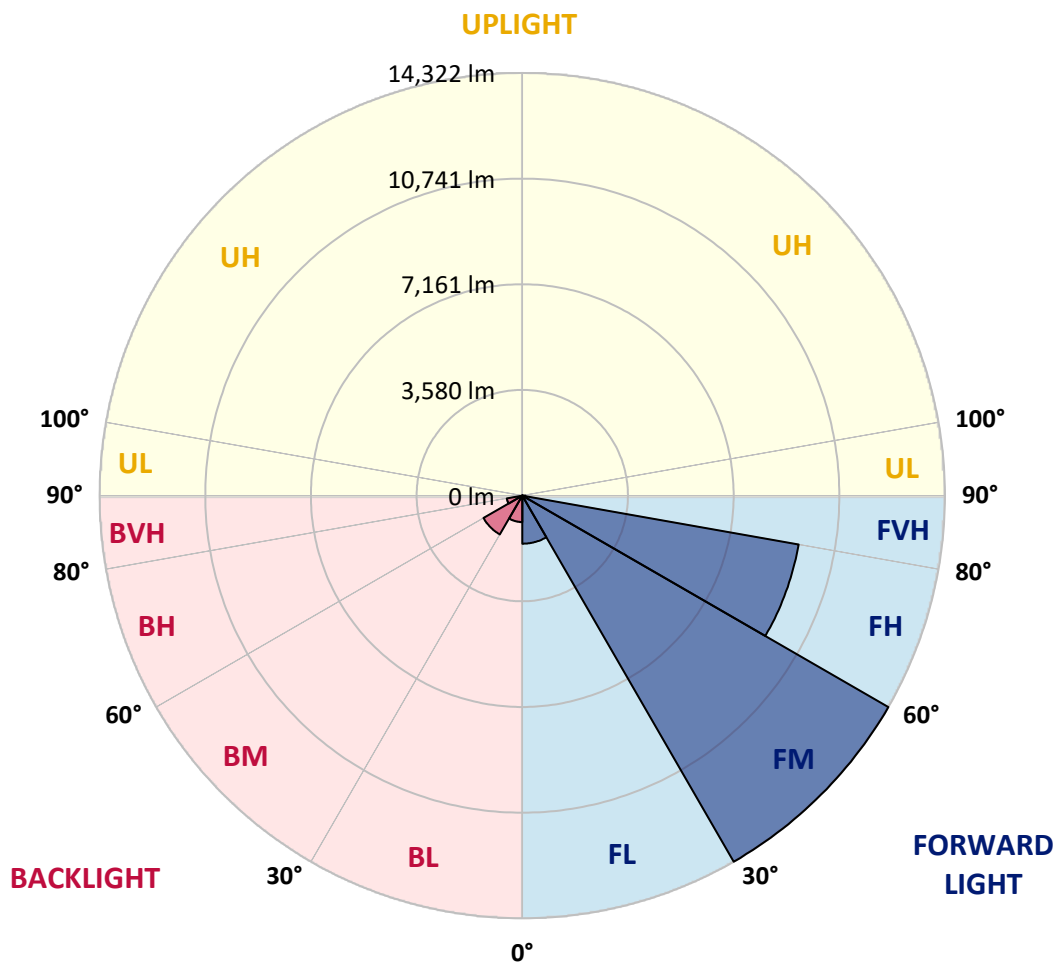
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1629.9	5.7			
FM (30°-60°)	14321.5	50.2			
FH (60°-80°)	9508.9	33.3			G4/12000
FVH (80°-90°)	100.3	0.4			G2/225
BL (0°-30°)	895.4	3.1	B2/1000		
BM (30°-60°)	1518.5	5.3	B2/2500		
BH (60°-80°)	534.4	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1
2.5°	3112.7	3123.4	3134.2	3138.5	3153.5	3168.5	3179.3	3177.1	3194.3	3202.9	3202.9
5°	2988.2	2988.2	3016.1	3041.9	3084.8	3127.7	3168.5	3177.1	3209.3	3239.4	3250.1
7.5°	2883.0	2889.5	2910.9	2958.2	3016.1	3091.2	3172.8	3192.1	3248.0	3314.5	3342.4
10°	2833.6	2837.9	2865.8	2915.2	2988.2	3091.2	3205.0	3241.5	3327.4	3432.6	3471.2
12.5°	2822.9	2829.3	2857.3	2913.1	2996.8	3121.3	3275.9	3314.5	3439.0	3574.3	3632.2
15°	2842.2	2846.5	2874.4	2934.5	3026.8	3175.0	3370.3	3424.0	3572.1	3728.8	3803.9
17.5°	2910.9	2906.6	2926.0	2975.3	3078.4	3241.5	3484.1	3548.5	3722.4	3937.0	3986.4
20°	3202.9	3175.0	3157.8	3114.9	3155.6	3336.0	3621.5	3715.9	3930.6	4149.6	4183.9
22.5°	3831.9	3769.6	3647.2	3479.8	3351.0	3464.8	3786.8	3896.3	4173.2	4387.9	4387.9
25°	4632.6	4553.1	4430.8	4065.8	3750.3	3677.3	3973.5	4110.9	4437.2	4654.0	4583.2
27.5°	5635.1	5572.8	5334.5	4909.5	4426.5	4048.7	4190.4	4317.0	4671.2	4933.1	4785.0
30°	6450.8	6420.8	6225.4	5845.5	5313.1	4761.4	4593.9	4677.7	4982.5	5285.2	5132.8
32.5°	7139.9	7139.9	6940.3	6586.1	6088.0	5598.6	5278.7	5338.8	5630.8	5980.7	5697.3
35°	7897.7	7871.9	7710.9	7373.9	6815.8	6384.3	6253.3	6334.9	6599.0	6858.7	6161.0
37.5°	8694.1	8685.5	8518.1	8191.8	7736.7	7193.6	6886.6	6908.1	7043.3	7202.2	6704.1
40°	9559.2	9572.1	9353.2	9151.4	8722.0	8166.0	7577.8	7442.6	7569.3	8017.9	7706.6
42.5°	10581.1	10551.0	10456.6	10181.8	9836.2	9503.4	8797.2	8747.8	8859.4	9340.3	9003.3
45°	11768.2	11811.1	11648.0	11495.6	11263.7	10986.8	10396.5	10310.6	10433.0	11180.0	10701.3
47.5°	12957.5	12916.7	13021.9	12994.0	13118.5	12912.4	12390.7	12214.7	12508.8	13217.2	12513.1
50°	13863.4	13908.5	14127.4	14447.3	14981.8	15097.7	14597.5	14537.4	14668.4	15123.5	14133.9
52.5°	14451.6	14601.8	14945.3	15767.5	16731.4	17480.6	17100.6	17068.4	17014.7	17137.1	15683.8
55°	14835.8	14988.2	15436.9	16647.6	18307.0	19524.2	19543.5	19406.2	19051.9	18963.9	17132.8
57.5°	14599.7	14629.8	15269.5	16888.1	19180.8	20981.8	21613.0	21475.6	20820.8	20488.1	18412.2
60°	13122.8	13185.0	14075.9	15977.9	18800.8	21458.4	22984.7	22922.4	22205.4	21829.8	19408.3
62.5°	10505.9	10686.3	11602.9	13723.8	17034.1	20655.5	23540.7	23716.7	23158.6	22641.2	19721.7
63°	10025.1	9967.1	10935.3	13067.0	16566.1	20258.4	23549.3	23772.5	23201.5	22718.5	19635.9
65°	7421.1	7595.0	8224.0	10304.2	13786.1	18410.1	23019.0	23414.0	23042.7	22377.2	18684.9
67.5°	4166.7	4158.2	4853.7	6742.8	9649.4	14440.8	20814.4	21649.5	21572.2	20080.2	15488.4
70°	2039.4	2071.6	2357.1	3494.8	5596.4	9962.8	17295.9	18197.6	18225.5	15771.8	10709.9
72.5°	923.1	938.1	1142.0	1702.3	2876.6	5304.5	11918.5	12779.3	12620.4	10050.8	5914.2
75°	487.3	519.5	629.0	856.5	1386.8	2187.5	6483.0	7315.9	6983.2	4591.8	2176.8
77.5°	360.6	371.4	427.2	545.3	742.8	852.2	2797.1	3327.4	3117.0	1661.5	721.3
80°	264.0	272.6	317.7	386.4	468.0	433.6	1054.0	1208.6	1084.1	564.6	221.1
82.5°	161.0	163.1	231.8	287.7	294.1	242.6	347.8	373.5	390.7	317.7	120.2
85°	58.0	73.0	156.7	208.2	173.9	122.4	146.0	161.0	176.0	201.8	70.8
87.5°	6.4	8.6	75.1	100.9	49.4	45.1	53.7	60.1	64.4	75.1	34.3
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°	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1
2.5°	3211.5	3220.0	3213.6	3202.9	3200.7	3194.3	3181.4	3181.4	3181.4	3185.7	3181.4
5°	3258.7	3265.1	3250.1	3228.6	3205.0	3175.0	3142.8	3123.4	3121.3	3117.0	3106.3
7.5°	3348.8	3357.4	3323.1	3271.6	3207.2	3134.2	3065.5	3001.1	2971.0	2947.4	2947.4
10°	3479.8	3488.4	3419.7	3327.4	3198.6	3050.5	2887.3	2739.2	2623.3	2569.6	2556.7
12.5°	3636.5	3640.8	3527.0	3366.0	3153.5	2868.0	2520.2	2196.1	1970.7	1867.6	1856.9
15°	3808.2	3778.2	3627.9	3381.1	3024.7	2492.3	1891.2	1494.1	1260.1	1191.4	1217.2
17.5°	3982.1	3926.3	3705.2	3357.4	2734.9	1891.2	1270.8	1019.7	946.7	927.4	927.4
20°	4145.3	4068.0	3761.0	3254.4	2232.6	1303.0	942.4	882.3	869.4	856.5	858.7
22.5°	4308.4	4190.4	3810.4	3024.7	1663.7	931.7	843.7	824.3	807.2	790.0	787.8
25°	4467.3	4304.1	3829.7	2599.7	1133.5	800.7	770.7	744.9	710.6	691.2	686.9
27.5°	4632.6	4441.5	3816.8	2063.0	826.5	717.0	686.9	650.4	609.7	575.3	575.3
30°	4950.3	4703.4	3771.7	1483.4	695.5	631.1	592.5	534.5	489.4	455.1	453.0
32.5°	5383.9	5044.7	3617.2	1043.3	618.2	556.0	498.0	433.6	386.4	360.6	360.6
35°	5770.3	5388.2	3327.4	768.5	556.0	483.0	412.2	349.9	313.4	296.2	289.8
37.5°	6358.5	5890.5	2928.1	624.7	495.9	418.6	345.6	287.7	257.6	244.7	244.7
40°	7240.8	6504.5	2438.6	547.4	437.9	356.4	287.7	242.6	219.0	203.9	203.9
42.5°	8335.6	7255.8	1942.8	491.6	384.3	307.0	240.4	206.1	184.6	173.9	171.7
45°	9713.8	8048.0	1496.2	440.1	341.3	261.9	203.9	173.9	152.4	146.0	148.1
47.5°	11152.1	8745.6	1159.2	395.0	296.2	221.1	173.9	150.3	135.2	126.7	126.7
50°	12380.0	9226.5	880.1	343.5	261.9	186.8	152.4	135.2	122.4	118.1	115.9
52.5°	13406.1	9366.0	674.1	298.4	229.7	161.0	135.2	122.4	111.6	105.2	105.2
55°	14279.8	9243.7	528.1	251.2	193.2	139.5	120.2	109.5	96.6	90.2	88.0
57.5°	14790.8	8850.8	403.6	208.2	156.7	115.9	105.2	92.3	77.3	66.5	66.5
60°	15048.4	8279.8	309.1	171.7	120.2	92.3	85.9	68.7	53.7	45.1	42.9
62.5°	14739.2	7522.0	234.0	135.2	90.2	68.7	58.0	49.4	34.3	25.8	25.8
63°	14548.2	7303.1	225.4	128.8	83.7	64.4	53.7	45.1	30.1	23.6	21.5
65°	13262.3	6347.8	184.6	103.0	66.5	45.1	36.5	32.2	21.5	10.7	8.6
67.5°	10531.7	4855.8	146.0	77.3	47.2	32.2	21.5	19.3	6.4	0.0	0.0
70°	7120.6	3136.3	113.8	55.8	32.2	19.3	10.7	8.6	2.1	0.0	0.0
72.5°	3713.8	1607.9	88.0	40.8	19.3	12.9	6.4	2.1	0.0	0.0	0.0
75°	1313.8	547.4	64.4	25.8	12.9	6.4	2.1	0.0	0.0	0.0	0.0
77.5°	397.1	203.9	40.8	19.3	8.6	4.3	0.0	0.0	0.0	0.0	0.0
80°	139.5	75.1	23.6	12.9	6.4	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	68.7	36.5	15.0	10.7	6.4	2.1	0.0	0.0	0.0	0.0	0.0
85°	38.6	23.6	12.9	10.7	6.4	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	27.9	17.2	12.9	10.7	8.6	4.3	2.1	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)