

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: P646829

Luminaire Tested: **GALN-SA3C-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-835-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9591.8 lumens  
Efficiency: N/A  
Efficacy: 59.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

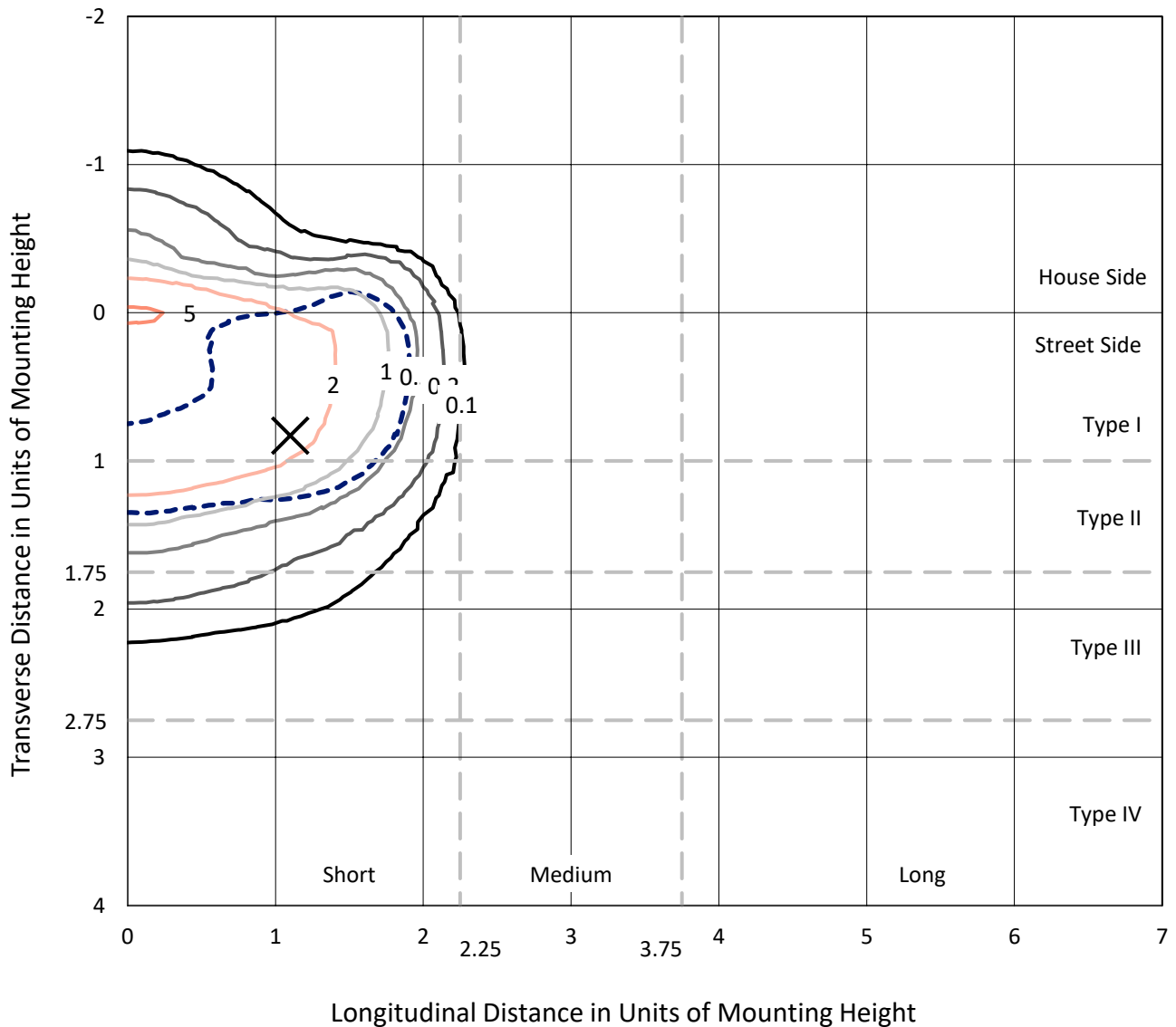
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

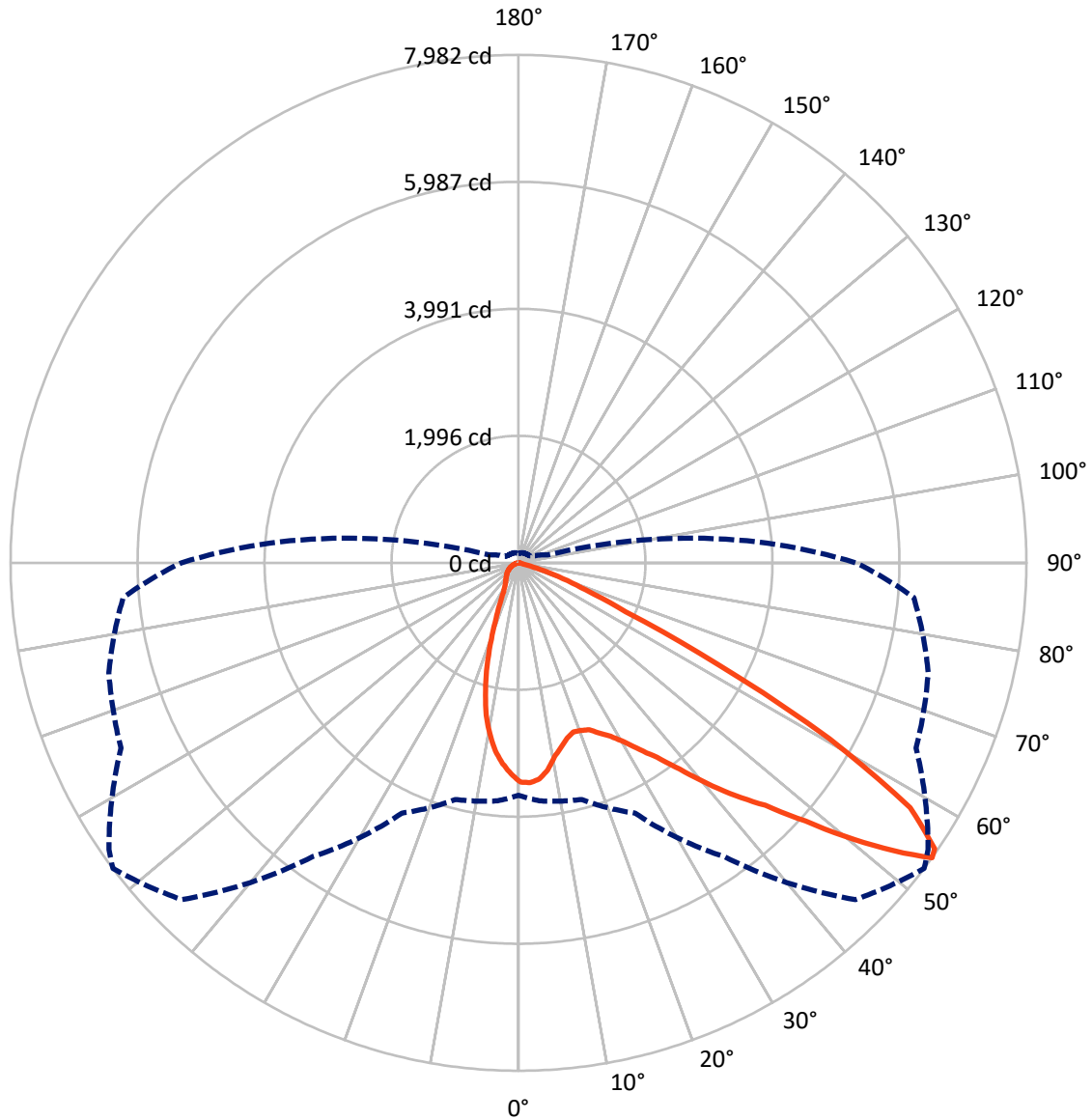
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1587.0	0.0	1587.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	8004.8	0.0	8004.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	9591.8	0.0	9591.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.6	3.1
10°-20°	677.7	7.1
20°-30°	963.2	10.0
30°-40°	1486.4	15.5
40°-50°	2330.5	24.3
50°-60°	2707.2	28.2
60°-70°	1022.9	10.7
70°-80°	97.3	1.0
80°-90°	11.0	0.1
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°	9591.8	100.0
0°-180°	9591.8	100.0

**Coefficient of Utilization**

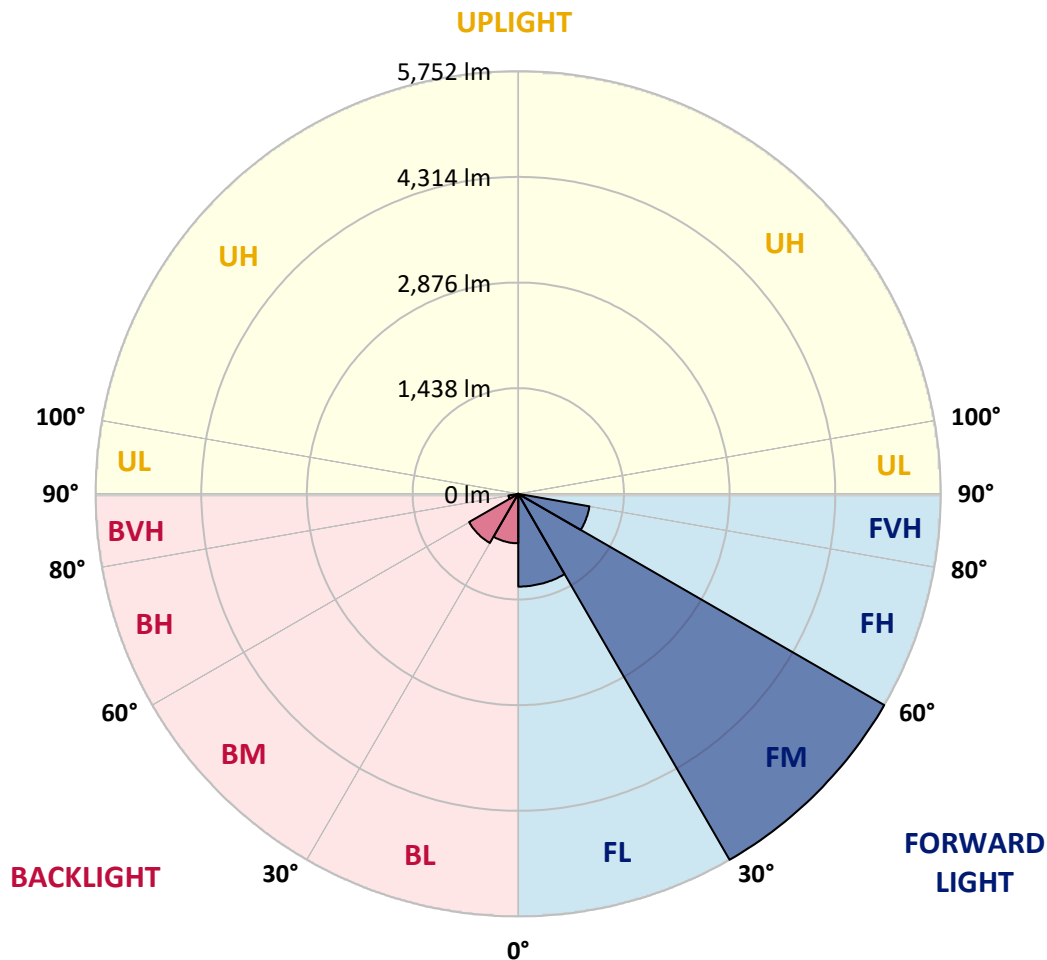


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1263.0	13.2			
FM (30°-60°)	5751.9	60.0			
FH (60°-80°)	984.3	10.3			G1/1800
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	673.4	7.0	B2/1000		
BM (30°-60°)	772.3	8.1	B1/1000		
BH (60°-80°)	136.0	1.4	B1/500		G1/500
BVH (80°-90°)	5.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2
2.5°	3427.3	3397.0	3427.3	3430.9	3452.3	3472.0	3459.5	3488.1	3472.0	3454.1	3448.8
5°	3150.3	3191.4	3193.2	3257.6	3243.3	3361.2	3413.0	3398.8	3486.3	3480.9	3468.5
7.5°	2902.0	2885.9	2907.4	2982.4	3077.1	3212.9	3288.0	3286.2	3411.2	3500.6	3491.6
10°	2671.4	2669.6	2714.3	2773.3	2853.7	2996.7	3100.3	3152.1	3346.9	3482.7	3502.4
12.5°	2516.0	2508.8	2557.1	2605.4	2732.2	2843.0	2975.2	3000.2	3223.6	3420.1	3452.3
15°	2414.1	2430.2	2433.8	2526.7	2607.2	2753.7	2857.3	2909.1	3166.5	3370.1	3493.4
17.5°	2396.3	2417.7	2419.5	2496.4	2582.1	2705.4	2796.6	2866.2	3118.2	3395.2	3495.2
20°	2432.0	2419.5	2430.2	2478.4	2562.4	2680.4	2812.6	2835.9	3102.1	3407.7	3514.9
22.5°	2533.9	2530.3	2503.5	2542.8	2601.8	2725.1	2850.1	2885.9	3148.6	3472.0	3530.9
25°	2646.5	2666.1	2641.1	2635.7	2676.8	2798.4	2964.5	3010.9	3304.0	3588.2	3581.0
27.5°	2857.3	2837.7	2837.7	2812.6	2801.9	2860.8	3087.8	3164.7	3477.4	3738.3	3638.2
30°	3059.2	3080.6	3064.6	3073.5	3002.0	2996.7	3262.9	3357.7	3784.7	3967.0	3759.7
32.5°	3379.1	3350.5	3377.3	3354.1	3259.3	3162.9	3500.6	3598.9	4156.4	4229.7	3941.9
35°	3645.3	3632.8	3747.2	3743.6	3589.9	3495.2	3752.5	3899.1	4415.5	4544.1	4156.4
37.5°	4024.2	4000.9	4131.3	4193.9	4056.3	3915.2	4113.5	4283.2	4656.7	4796.1	4376.2
40°	4413.7	4472.7	4647.8	4751.4	4604.9	4417.3	4554.9	4606.7	4817.6	4960.5	4526.3
42.5°	4906.9	4992.6	5171.4	5260.7	5248.2	5044.5	5003.4	5001.6	4933.7	4914.0	4637.1
45°	5380.5	5348.3	5623.4	5818.2	5975.5	5916.5	5435.8	5382.2	5117.8	4983.7	4665.7
47.5°	5587.7	5577.0	5764.6	6111.3	6647.4	6720.6	6064.8	5857.5	5428.7	5276.8	4821.2
50°	5319.7	5375.1	5560.9	5945.1	6767.1	7326.4	6836.8	6558.0	5791.5	5634.2	5189.3
52.5°	4444.1	4481.6	4658.5	5146.3	6359.7	7683.8	7576.5	7415.7	6457.9	6197.1	5830.8
54°	3654.3	3754.3	3850.8	4340.5	5634.2	7485.4	7982.2	7858.9	6892.2	6665.2	6234.6
55°	3182.5	3241.5	3311.2	3799.0	5132.0	7149.5	7935.7	7946.4	7183.5	6811.8	6506.2
57.5°	2324.8	2365.9	2294.4	2510.6	3523.8	5805.7	7258.5	7548.0	7576.5	7031.6	6672.4
60°	1776.2	1794.1	1713.7	1747.6	2190.8	3984.8	5614.5	5962.9	6835.0	6145.2	5652.1
62.5°	1377.7	1381.3	1379.5	1438.4	1509.9	2344.5	3511.3	3820.4	4712.1	4363.7	3838.3
65°	1015.0	998.9	1027.5	1206.2	1288.3	1474.2	1849.4	2074.6	2560.6	2162.2	1545.7
67.5°	657.6	663.0	691.5	897.0	1104.3	1131.1	1138.2	1120.4	1122.2	618.3	387.7
70°	394.9	403.9	394.9	507.5	789.8	811.3	741.6	723.7	564.7	146.5	144.8
72.5°	234.1	221.6	198.3	218.0	328.8	393.1	353.8	352.0	221.6	85.7	85.7
75°	98.3	89.3	73.3	66.1	87.5	84.0	84.0	75.1	59.0	57.2	53.6
77.5°	19.7	19.7	14.3	16.1	21.5	25.1	30.4	30.4	35.7	35.7	34.0
80°	0.0	1.8	5.3	10.7	16.1	23.3	26.8	26.8	30.4	30.4	25.1
82.5°	0.0	1.8	5.3	10.7	14.3	21.5	26.8	26.8	30.4	32.2	26.8
85°	0.0	1.8	5.3	8.9	14.3	17.9	17.9	16.1	12.5	10.7	7.1
87.5°	0.0	0.0	1.8	3.6	1.8	3.6	3.6	3.6	3.6	3.6	3.6
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°	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2	3445.2
2.5°	3461.3	3459.5	3416.6	3346.9	3330.8	3271.8	3264.7	3229.0	3248.7	3182.5	3175.4
5°	3432.7	3411.2	3359.5	3314.8	3184.3	3091.4	3018.2	2928.8	2877.0	2885.9	2851.9
7.5°	3473.8	3418.4	3327.3	3171.8	3012.7	2850.1	2762.6	2580.3	2514.2	2415.9	2401.6
10°	3430.9	3389.8	3248.7	2991.3	2771.5	2537.5	2331.9	2130.0	1976.4	1910.2	1896.0
12.5°	3427.3	3355.9	3119.9	2834.1	2516.0	2180.0	1881.6	1629.7	1477.8	1392.0	1372.4
15°	3371.9	3286.2	2975.2	2591.0	2151.4	1733.3	1408.1	1165.1	1048.9	998.9	1013.2
17.5°	3377.3	3248.7	2830.5	2333.7	1792.3	1272.3	961.4	836.2	805.9	818.4	818.4
20°	3371.9	3164.7	2655.4	2037.1	1372.4	882.8	705.9	661.2	680.8	720.1	711.2
22.5°	3343.3	3125.3	2494.6	1724.4	1009.6	654.0	566.4	568.2	598.6	646.8	657.6
25°	3364.8	3037.8	2290.8	1408.1	736.2	521.8	491.4	503.9	536.0	571.8	579.0
27.5°	3348.7	2975.2	2078.2	1093.6	537.8	448.5	446.7	461.0	475.4	502.1	502.1
30°	3366.6	2918.1	1869.1	813.1	443.2	411.0	403.9	414.6	428.8	434.3	432.5
32.5°	3432.7	2875.2	1627.9	607.5	391.3	375.3	375.3	375.3	373.5	380.6	382.4
35°	3577.4	2882.3	1415.3	470.0	357.4	344.9	339.5	332.4	328.8	332.4	334.2
37.5°	3734.7	2878.8	1195.5	400.3	332.4	321.7	309.1	298.4	296.6	300.2	294.9
40°	3804.4	2912.7	991.7	359.2	309.1	296.6	276.9	268.0	269.8	273.4	269.8
42.5°	3899.1	2923.4	859.5	327.0	287.7	268.0	255.5	244.8	243.0	248.4	246.6
45°	3897.3	2862.6	720.1	309.1	268.0	246.6	230.5	221.6	221.6	225.2	226.9
47.5°	4011.6	2853.7	618.3	293.1	253.8	232.3	212.7	205.5	203.7	203.7	200.1
50°	4277.9	2978.8	539.6	275.2	235.8	216.2	200.1	191.2	184.1	180.5	178.7
52.5°	4797.9	3368.4	478.9	253.8	216.2	200.1	185.8	178.7	169.8	160.8	159.0
54°	5301.8	3770.4	475.4	235.8	200.1	189.4	176.9	173.4	162.6	150.1	146.5
55°	5528.8	4004.5	487.8	221.6	189.4	182.3	171.6	168.0	157.2	143.0	141.2
57.5°	5716.4	4095.6	480.7	184.1	171.6	169.8	160.8	155.4	143.0	123.3	119.7
60°	4601.3	3096.8	344.9	162.6	157.2	153.7	146.5	143.0	126.8	105.4	103.7
62.5°	2907.4	1781.6	219.8	143.0	137.6	132.2	123.3	119.7	105.4	84.0	78.6
65°	1238.3	738.0	148.3	126.8	117.9	109.0	101.9	96.5	84.0	62.6	60.8
67.5°	321.7	262.7	123.3	110.8	98.3	85.7	80.4	71.5	57.2	42.9	41.1
70°	144.8	132.2	103.7	92.9	78.6	66.1	59.0	50.0	37.5	28.6	26.8
72.5°	85.7	84.0	78.6	69.7	59.0	50.0	42.9	34.0	25.1	16.1	16.1
75°	53.6	51.8	53.6	48.2	41.1	37.5	32.2	23.3	14.3	7.1	7.1
77.5°	32.2	32.2	32.2	30.4	28.6	28.6	23.3	14.3	7.1	1.8	1.8
80°	25.1	25.1	26.8	25.1	25.1	25.1	19.7	10.7	3.6	0.0	0.0
82.5°	25.1	26.8	30.4	28.6	25.1	21.5	17.9	10.7	3.6	0.0	0.0
85°	7.1	5.3	8.9	12.5	17.9	16.1	12.5	8.9	3.6	0.0	0.0
87.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	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)