

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637235

Luminaire Tested: GWS-SA4C-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-735-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

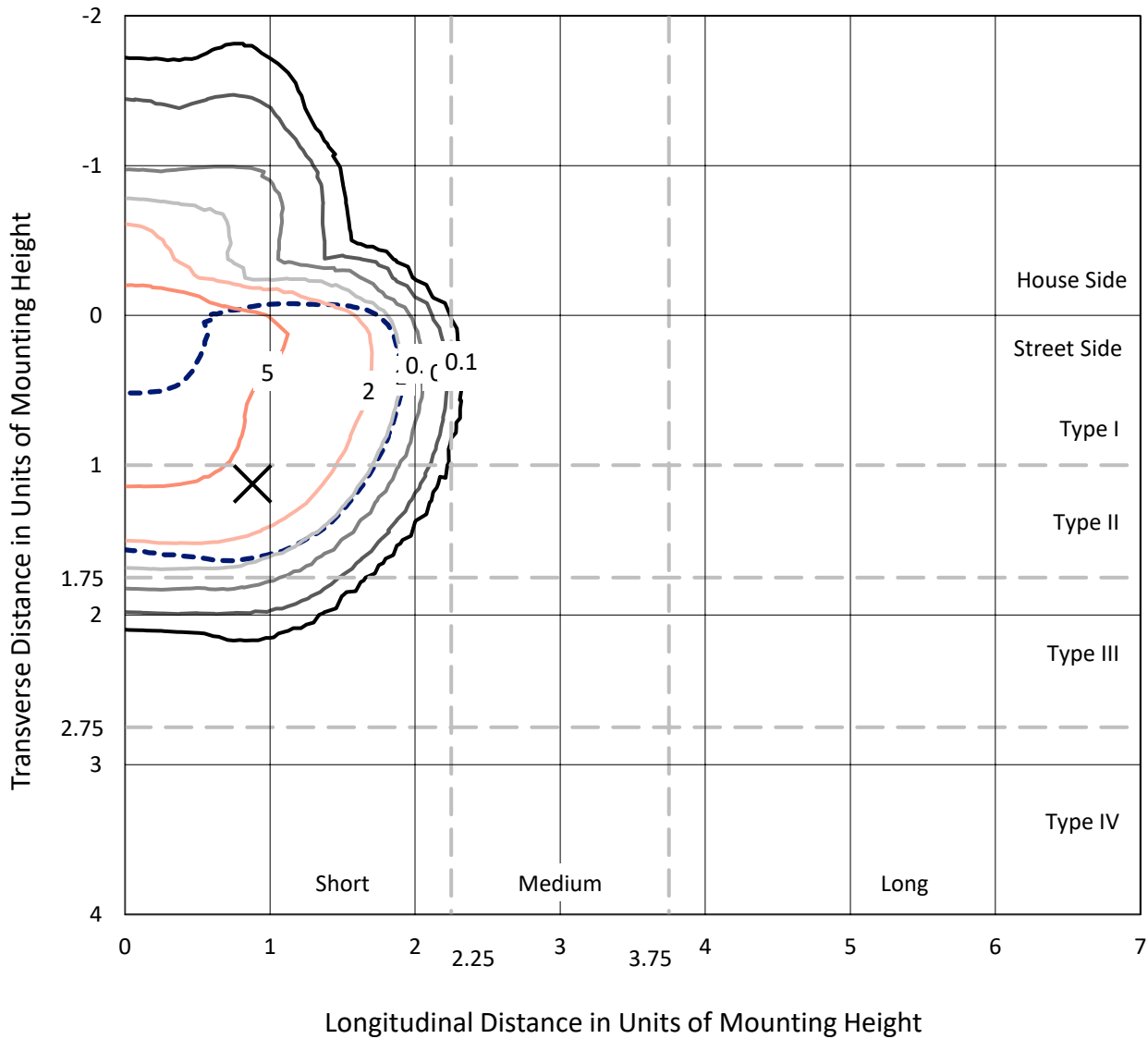
Lumens per Lamp: N/A  
Luminaire Lumens: 12007.9 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA4C-735-U-T3R-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

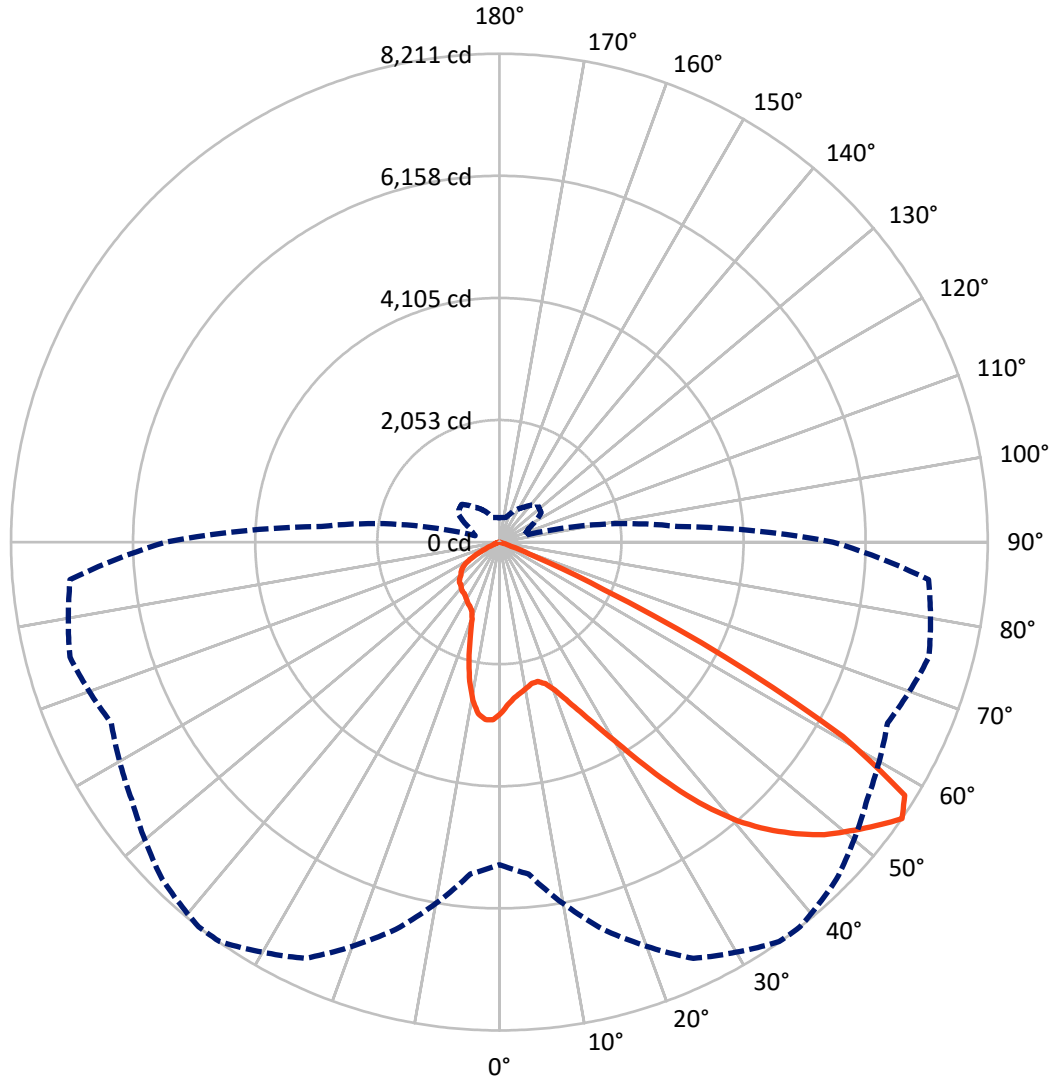
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P637235  
CATALOG NUMBER: GWS-SA4C-735-U-T3R-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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CATALOG NUMBER: GWS-SA4C-735-U-T3R-W-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2339.5	0.0	2339.5
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	9668.4	0.0	9668.4
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	12007.9	0.0	12007.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.3	2.2
10°-20°	716.8	6.0
20°-30°	1230.1	10.2
30°-40°	2040.1	17.0
40°-50°	2999.1	25.0
50°-60°	3504.5	29.2
60°-70°	1187.9	9.9
70°-80°	60.7	0.5
80°-90°	2.4	0.0
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°	12007.9	100.0
0°-180°	12007.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637235

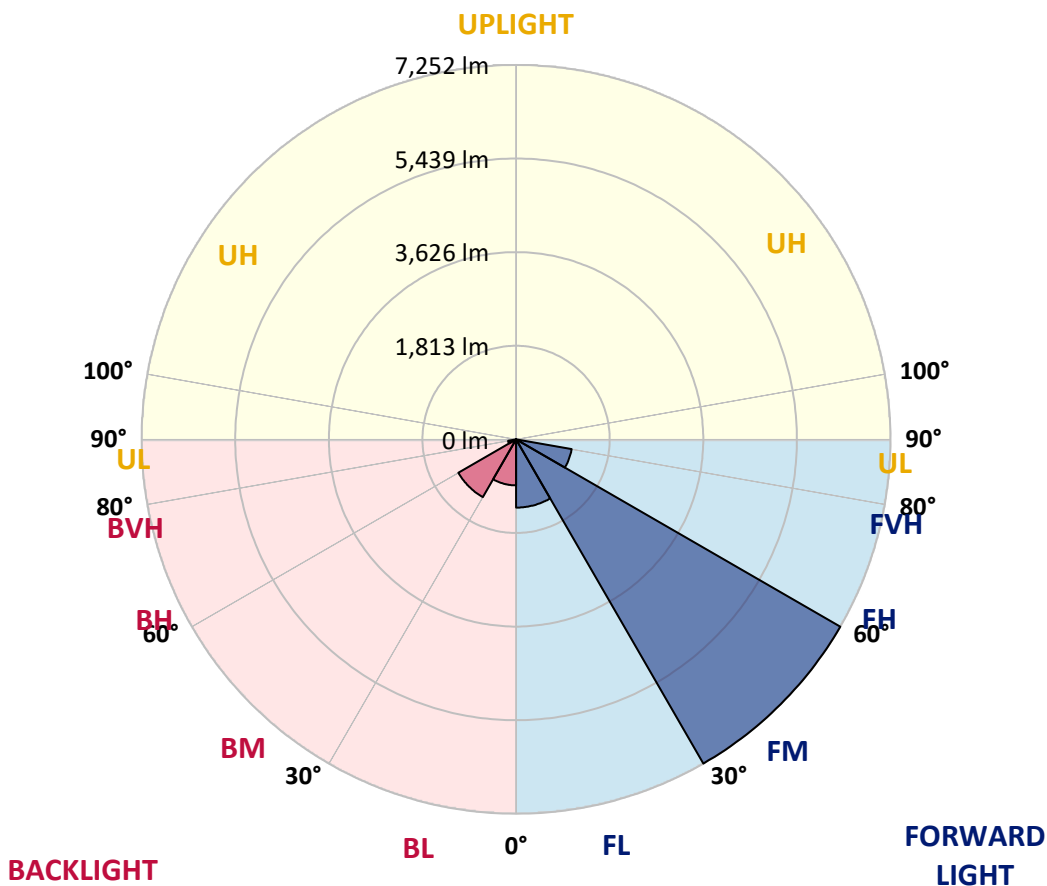
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.8	11.0			
FM (30°-60°)	7252.4	60.4			
FH (60°-80°)	1092.9	9.1			G1/1800
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	891.3	7.4	B2/1000		
BM (30°-60°)	1291.3	10.8	B2/2500		
BH (60°-80°)	155.7	1.3	B1/500		G1/500
BVH (80°-90°)	1.1	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-G1**

Type II Short





REPORT NUMBER: P637235

CATALOG NUMBER: GWS-SA4C-735-U-T3R-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6
2.5°	2681.9	2676.5	2687.4	2709.4	2730.0	2736.8	2757.4	2786.3	2804.1	2846.6	2881.0
5°	2561.2	2558.4	2569.4	2588.6	2616.1	2625.7	2657.2	2705.3	2753.3	2827.4	2900.2
7.5°	2451.4	2450.0	2466.5	2509.0	2548.8	2561.2	2599.6	2658.6	2723.1	2837.0	2944.1
10°	2307.2	2308.6	2340.2	2400.6	2473.3	2498.0	2559.8	2644.9	2728.6	2875.5	3023.7
12.5°	2260.6	2263.3	2279.8	2326.5	2406.1	2437.6	2524.1	2653.1	2760.2	2930.4	3126.6
15°	2374.5	2374.5	2360.8	2366.3	2401.9	2430.8	2521.4	2680.6	2813.7	2996.3	3228.2
17.5°	2595.5	2587.2	2552.9	2506.3	2493.9	2503.5	2576.3	2739.6	2889.2	3073.1	3343.5
20°	2894.7	2897.4	2830.2	2732.7	2654.5	2653.1	2697.0	2843.9	2997.6	3165.1	3468.4
22.5°	3257.0	3246.1	3156.8	3023.7	2887.8	2876.8	2894.7	3003.1	3154.1	3310.6	3622.1
25°	3677.0	3671.5	3545.3	3366.8	3187.0	3161.0	3161.0	3268.0	3377.8	3517.8	3806.1
27.5°	4116.2	4116.2	3994.1	3788.2	3549.4	3502.7	3495.9	3622.1	3694.9	3722.3	3961.1
30°	4567.8	4562.3	4441.5	4230.2	3974.9	3926.8	3907.6	4001.0	4053.1	3970.8	4154.7
32.5°	5026.2	5035.8	4913.7	4717.4	4489.6	4458.0	4399.0	4399.0	4441.5	4326.2	4459.4
35°	5519.0	5516.2	5420.2	5287.0	5092.1	5056.4	4959.0	4806.6	4871.1	4820.4	4880.7
37.5°	5954.1	5974.7	5928.0	5829.2	5671.3	5635.6	5475.1	5199.2	5248.6	5328.2	5381.7
40°	6396.0	6412.5	6459.2	6427.6	6228.6	6162.7	5877.2	5424.3	5479.2	5752.3	5906.0
42.5°	6829.8	6838.0	6932.7	6984.8	6718.6	6603.3	6181.9	5561.5	5619.2	6084.5	6353.5
45°	7105.6	7123.5	7279.9	7439.2	7150.9	6993.1	6446.8	5737.2	5761.9	6315.1	6684.3
47.5°	7094.7	7135.8	7429.6	7719.2	7522.9	7352.7	6765.2	6018.6	5977.4	6531.9	6902.5
50°	6873.7	6923.1	7344.5	7804.3	7790.5	7632.7	7119.4	6426.2	6297.2	6724.1	6929.9
52.5°	6415.2	6558.0	7194.8	7815.2	8006.0	7926.4	7557.2	6975.2	6729.6	6999.9	6973.9
55°	5424.3	5600.0	6740.5	7721.9	8200.9	8210.5	8017.0	7547.6	7199.0	7474.8	7244.3
57.5°	4117.6	4257.6	5188.2	6873.7	7878.4	8036.2	8195.4	7849.5	7488.6	7798.8	7307.4
60°	2481.6	2643.5	3248.8	5044.1	6363.1	6632.1	7256.6	7189.4	6754.3	6887.4	5992.5
62.5°	1006.1	1091.2	1500.2	2779.4	4005.1	4256.2	4854.7	4956.2	4849.2	4713.3	3634.5
65°	367.8	402.2	601.2	1148.8	1841.9	1933.9	2249.6	2429.4	2577.6	2194.7	1352.0
67.5°	227.8	249.8	391.2	590.2	669.8	623.1	634.1	756.3	722.0	446.1	241.6
70°	168.8	186.7	306.1	409.0	270.4	208.6	141.4	151.0	135.9	119.4	118.0
72.5°	116.7	133.1	229.2	241.6	104.3	74.1	52.2	72.7	82.4	81.0	83.7
75°	76.9	89.2	144.1	94.7	26.1	20.6	17.8	38.4	49.4	49.4	50.8
77.5°	45.3	52.2	50.8	19.2	5.5	5.5	4.1	6.9	11.0	12.4	15.1
80°	5.5	4.1	2.7	2.7	2.7	2.7	2.7	2.7	4.1	4.1	4.1
82.5°	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7	2.7	4.1	4.1
85°	0.0	0.0	1.4	1.4	2.7	2.7	2.7	2.7	2.7	4.1	4.1
87.5°	0.0	0.0	1.4	1.4	2.7	2.7	2.7	2.7	2.7	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637235

CATALOG NUMBER: GWS-SA4C-735-U-T3R-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6
2.5°	2907.0	2897.4	2937.2	2966.1	2989.4	3000.4	2985.3	2983.9	2983.9	2953.7	2945.5
5°	2941.4	2945.5	3001.7	3026.4	3030.6	3016.8	2982.5	2959.2	2945.5	2913.9	2896.1
7.5°	3007.2	3021.0	3074.5	3070.4	3033.3	2970.2	2879.6	2809.6	2764.3	2714.9	2684.7
10°	3101.9	3128.0	3161.0	3103.3	2985.3	2824.7	2638.0	2504.9	2425.3	2369.0	2334.7
12.5°	3217.2	3243.3	3232.3	3096.4	2850.8	2563.9	2323.7	2131.6	2039.6	1988.8	1953.1
15°	3333.9	3350.4	3279.0	3014.1	2613.3	2227.6	1960.0	1769.2	1656.7	1615.5	1585.3
17.5°	3453.3	3449.2	3287.2	2852.1	2296.3	1848.8	1585.3	1454.9	1423.3	1416.5	1413.7
20°	3578.2	3541.2	3254.3	2620.2	1914.7	1474.1	1324.5	1332.7	1390.4	1417.8	1423.3
22.5°	3721.0	3627.6	3171.9	2305.9	1524.9	1228.4	1243.5	1324.5	1402.7	1439.8	1445.3
25°	3873.3	3707.2	3034.7	1902.3	1202.3	1129.6	1218.8	1312.1	1395.9	1441.2	1446.7
27.5°	3973.5	3726.4	2809.6	1496.1	1032.1	1091.2	1185.9	1275.1	1361.6	1411.0	1417.8
30°	4081.9	3718.2	2503.5	1152.9	974.5	1058.2	1140.6	1221.6	1301.2	1356.1	1361.6
32.5°	4241.1	3712.7	2130.2	936.1	951.2	1032.1	1092.5	1159.8	1214.7	1246.3	1242.1
35°	4449.8	3705.9	1695.1	844.1	937.4	1011.6	1059.6	1091.2	1030.8	1011.6	1015.7
37.5°	4717.4	3722.3	1328.6	805.7	933.3	1006.1	1047.2	956.7	863.3	827.6	822.2
40°	5013.9	3764.9	1012.9	790.6	947.1	1019.8	1000.6	851.0	735.7	665.7	650.6
42.5°	5311.7	3811.5	801.6	785.1	970.4	1058.2	923.7	774.1	601.2	561.4	555.9
45°	5532.7	3803.3	693.1	775.5	991.0	1080.2	903.1	664.3	536.7	518.8	520.2
47.5°	5643.9	3712.7	634.1	753.5	999.2	1058.2	852.3	619.0	492.7	512.0	528.4
50°	5584.9	3478.0	579.2	711.0	981.4	1029.4	771.4	584.7	470.8	550.4	587.4
52.5°	5513.5	3189.8	518.8	645.1	938.8	989.6	739.8	575.1	457.1	531.2	558.6
55°	5608.2	3007.2	420.0	543.5	855.1	896.3	715.1	573.7	425.5	413.1	409.0
57.5°	5475.1	2643.5	300.6	391.2	656.1	709.6	697.2	564.1	377.4	376.1	381.6
60°	4231.5	1612.7	205.9	248.4	402.2	452.9	632.7	539.4	325.3	299.2	300.6
62.5°	2404.7	686.3	141.4	153.7	205.9	244.3	483.1	490.0	300.6	285.5	300.6
65°	837.2	245.7	109.8	102.9	113.9	130.4	277.3	378.8	273.1	247.1	249.8
67.5°	172.9	122.2	97.5	85.1	85.1	85.1	141.4	236.1	225.1	196.3	199.0
70°	109.8	104.3	85.1	72.7	70.0	64.5	81.0	130.4	155.1	142.7	144.1
72.5°	81.0	79.6	67.3	59.0	52.2	46.7	50.8	64.5	79.6	82.4	83.7
75°	49.4	50.8	43.9	37.1	32.9	28.8	30.2	30.2	30.2	27.5	30.2
77.5°	15.1	16.5	13.7	11.0	9.6	9.6	9.6	8.2	6.9	4.1	4.1
80°	4.1	4.1	4.1	4.1	4.1	2.7	2.7	1.4	1.4	0.0	0.0
82.5°	4.1	4.1	4.1	4.1	2.7	2.7	1.4	1.4	0.0	0.0	0.0
85°	4.1	4.1	4.1	4.1	2.7	2.7	1.4	1.4	0.0	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	2.7	2.7	1.4	1.4	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)