

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: P639545

Luminaire Tested: GWS-SA5C-722-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639545  
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-SA5C-722-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

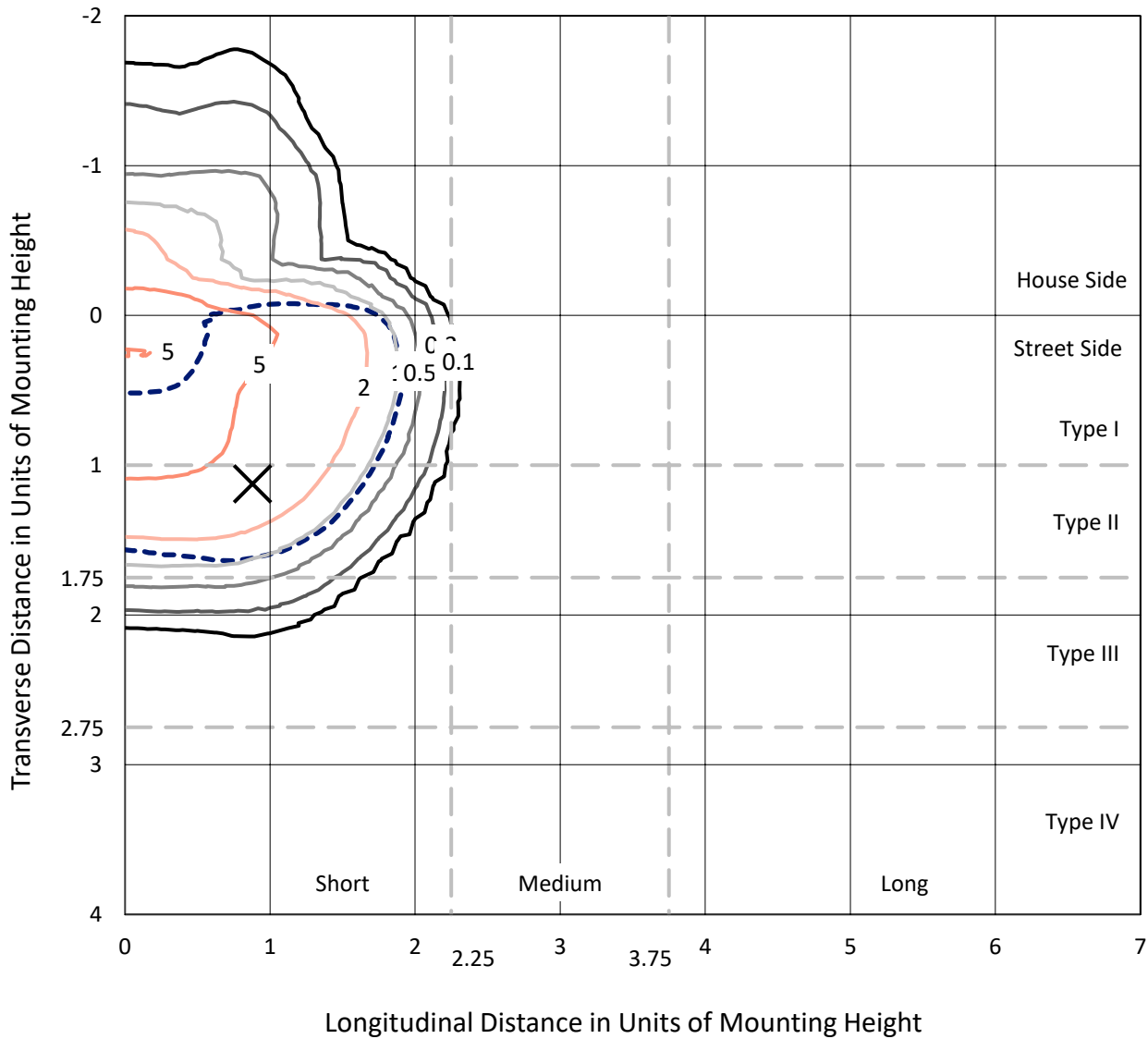
Lumens per Lamp: N/A  
Luminaire Lumens: 11001 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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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### Iso-Footcandle Lines of Horizontal Illumination

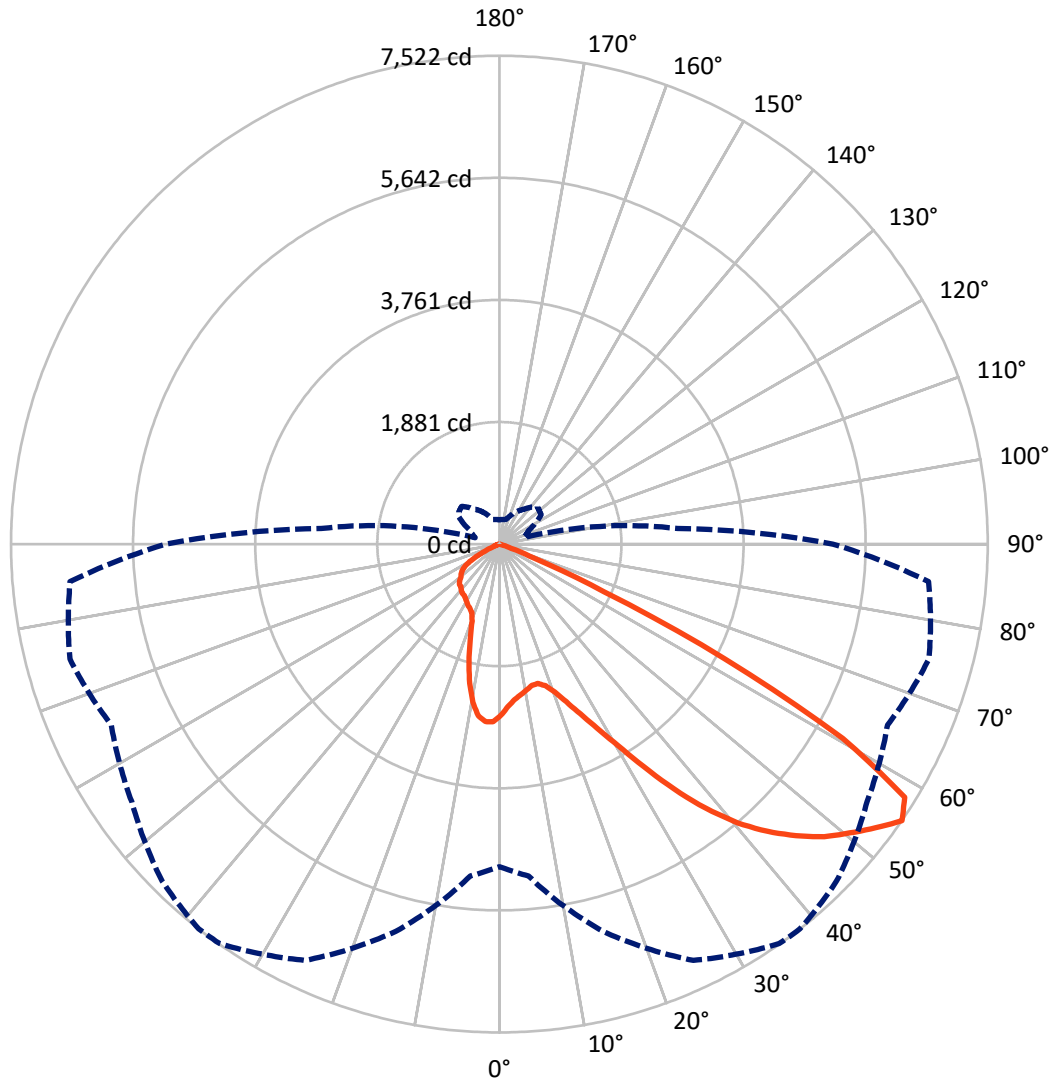
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2143.3	0.0	2143.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	8857.7	0.0	8857.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	11001.0	0.0	11001.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.9	2.2
10°-20°	656.7	6.0
20°-30°	1126.9	10.2
30°-40°	1869.1	17.0
40°-50°	2747.6	25.0
50°-60°	3210.7	29.2
60°-70°	1088.3	9.9
70°-80°	55.6	0.5
80°-90°	2.2	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°	11001.0	100.0
0°-180°	11001.0	100.0

**Coefficient of Utilization**



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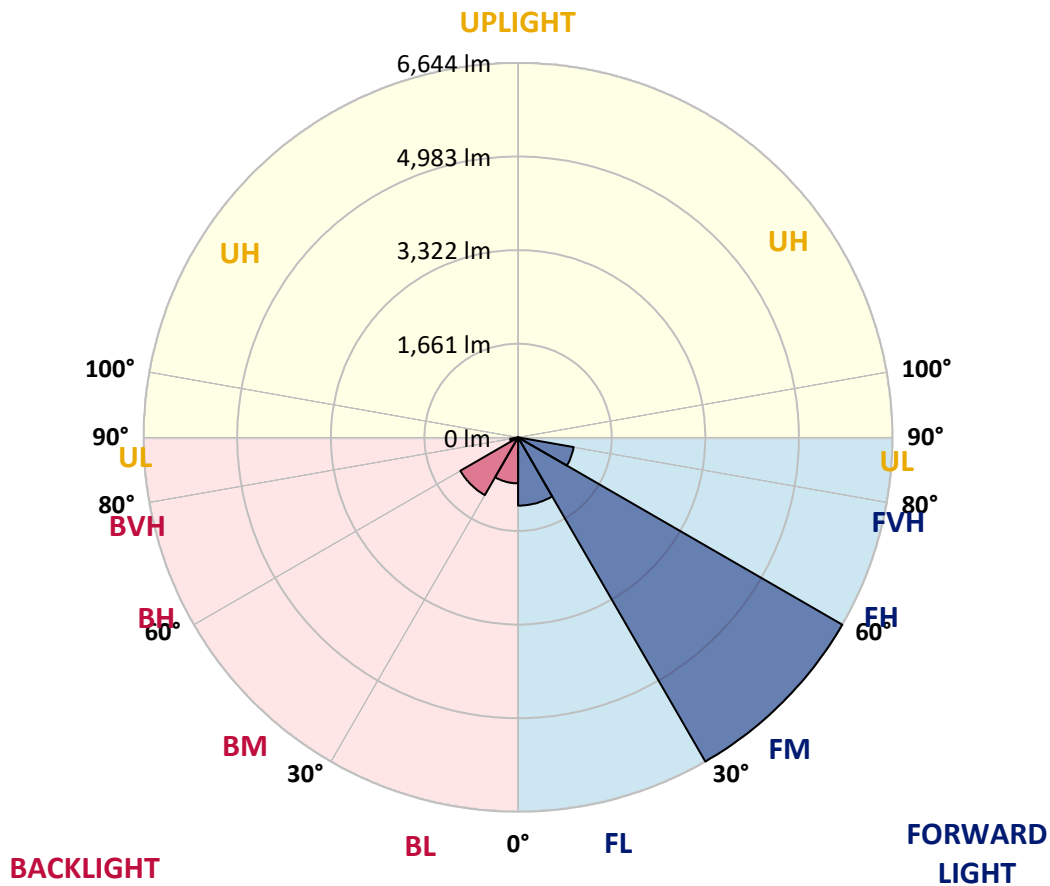
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1210.9	11.0			
FM (30°-60°)	6644.3	60.4			
FH (60°-80°)	1001.3	9.1			G1/1800
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	816.6	7.4	B2/1000		
BM (30°-60°)	1183.0	10.8	B2/2500		
BH (60°-80°)	142.7	1.3	B1/500		G1/500
BVH (80°-90°)	1.0	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1
2.5°	2457.1	2452.0	2462.1	2482.2	2501.1	2507.3	2526.2	2552.6	2569.0	2607.9	2639.4
5°	2346.4	2343.9	2353.9	2371.5	2396.7	2405.5	2434.4	2478.4	2522.4	2590.3	2657.0
7.5°	2245.8	2244.5	2259.6	2298.6	2335.1	2346.4	2381.6	2435.7	2494.8	2599.1	2697.2
10°	2113.8	2115.0	2143.9	2199.3	2265.9	2288.6	2345.1	2423.1	2499.8	2634.4	2770.2
12.5°	2071.0	2073.5	2088.6	2131.4	2204.3	2233.2	2312.4	2430.6	2528.7	2684.6	2864.5
15°	2175.4	2175.4	2162.8	2167.8	2200.5	2226.9	2309.9	2455.8	2577.8	2745.0	2957.5
17.5°	2377.8	2370.3	2338.9	2296.1	2284.8	2293.6	2360.2	2509.9	2646.9	2815.4	3063.1
20°	2652.0	2654.5	2592.9	2503.6	2431.9	2430.6	2470.9	2605.4	2746.3	2899.7	3177.6
22.5°	2983.9	2973.9	2892.1	2770.2	2645.7	2635.6	2652.0	2751.3	2889.6	3033.0	3318.4
25°	3368.7	3363.7	3248.0	3084.5	2919.8	2895.9	2895.9	2994.0	3094.6	3222.8	3486.9
27.5°	3771.1	3771.1	3659.2	3470.6	3251.8	3209.0	3202.7	3318.4	3385.0	3410.2	3629.0
30°	4184.8	4179.8	4069.1	3875.5	3641.6	3597.6	3580.0	3665.5	3713.2	3637.8	3806.3
32.5°	4604.8	4613.6	4501.7	4321.8	4113.1	4084.2	4030.1	4030.1	4069.1	3963.5	4085.4
35°	5056.2	5053.7	4965.7	4843.7	4665.1	4632.4	4543.2	4403.6	4462.7	4416.2	4471.5
37.5°	5454.8	5473.7	5430.9	5340.4	5195.8	5163.1	5016.0	4763.2	4808.5	4881.4	4930.5
40°	5859.7	5874.8	5917.5	5888.6	5706.3	5645.9	5384.4	4969.4	5019.7	5270.0	5410.8
42.5°	6257.1	6264.6	6351.4	6399.1	6155.2	6049.6	5663.5	5095.2	5148.0	5574.3	5820.7
45°	6509.8	6526.2	6669.5	6815.4	6551.3	6406.7	5906.2	5256.1	5278.8	5785.5	6123.8
47.5°	6499.7	6537.5	6806.6	7071.9	6892.1	6736.1	6198.0	5513.9	5476.2	5984.2	6323.7
50°	6297.3	6342.6	6728.6	7149.8	7137.3	6992.7	6522.4	5887.4	5769.2	6160.2	6348.9
52.5°	5877.3	6008.1	6591.5	7159.9	7334.7	7261.8	6923.5	6390.3	6165.3	6413.0	6389.1
55°	4969.4	5130.4	6175.3	7074.4	7513.2	7522.0	7344.7	6914.7	6595.3	6848.1	6636.8
57.5°	3772.3	3900.6	4753.2	6297.3	7217.7	7362.4	7508.2	7191.3	6860.6	7144.8	6694.6
60°	2273.5	2421.8	2976.4	4621.1	5829.5	6076.0	6648.1	6586.5	6187.9	6309.9	5490.0
62.5°	921.7	999.7	1374.4	2546.3	3669.2	3899.3	4447.6	4540.6	4442.6	4318.1	3329.7
65°	337.0	368.4	550.8	1052.5	1687.5	1771.7	2061.0	2225.7	2361.5	2010.7	1238.6
67.5°	208.7	228.9	358.4	540.7	613.6	570.9	580.9	692.9	661.4	408.7	221.3
70°	154.7	171.0	280.4	374.7	247.7	191.1	129.5	138.3	124.5	109.4	108.1
72.5°	106.9	122.0	210.0	221.3	95.6	67.9	47.8	66.6	75.4	74.2	76.7
75°	70.4	81.7	132.0	86.8	23.9	18.9	16.3	35.2	45.3	45.3	46.5
77.5°	41.5	47.8	46.5	17.6	5.0	5.0	3.8	6.3	10.1	11.3	13.8
80°	5.0	3.8	2.5	2.5	2.5	2.5	2.5	2.5	3.8	3.8	3.8
82.5°	1.3	1.3	1.3	2.5	2.5	2.5	2.5	2.5	2.5	3.8	3.8
85°	0.0	0.0	1.3	1.3	2.5	2.5	2.5	2.5	2.5	3.8	3.8
87.5°	0.0	0.0	1.3	1.3	2.5	2.5	2.5	2.5	2.5	3.8	3.8
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°	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1
2.5°	2663.3	2654.5	2690.9	2717.3	2738.7	2748.8	2734.9	2733.7	2733.7	2706.0	2698.5
5°	2694.7	2698.5	2750.0	2772.7	2776.4	2763.9	2732.4	2711.1	2698.5	2669.6	2653.2
7.5°	2755.1	2767.6	2816.7	2812.9	2779.0	2721.1	2638.1	2574.0	2532.5	2487.2	2459.6
10°	2841.8	2865.7	2895.9	2843.1	2734.9	2587.8	2416.8	2294.8	2221.9	2170.4	2138.9
12.5°	2947.5	2971.3	2961.3	2836.8	2611.7	2348.9	2128.9	1952.8	1868.6	1822.0	1789.3
15°	3054.3	3069.4	3004.0	2761.4	2394.2	2040.8	1795.6	1620.8	1517.7	1480.0	1452.4
17.5°	3163.7	3160.0	3011.6	2613.0	2103.7	1693.8	1452.4	1332.9	1304.0	1297.7	1295.2
20°	3278.2	3244.2	2981.4	2400.5	1754.1	1350.5	1213.4	1221.0	1273.8	1298.9	1304.0
22.5°	3408.9	3323.4	2906.0	2112.5	1397.0	1125.4	1139.2	1213.4	1285.1	1319.1	1324.1
25°	3548.5	3396.4	2780.2	1742.8	1101.5	1034.9	1116.6	1202.1	1278.8	1320.3	1325.3
27.5°	3640.3	3414.0	2574.0	1370.6	945.6	999.7	1086.4	1168.2	1247.4	1292.7	1298.9
30°	3739.6	3406.4	2293.6	1056.3	892.8	969.5	1044.9	1119.1	1192.1	1242.4	1247.4
32.5°	3885.5	3401.4	1951.6	857.6	871.4	945.6	1000.9	1062.5	1112.8	1141.8	1138.0
35°	4076.6	3395.1	1552.9	773.3	858.8	926.7	970.7	999.7	944.3	926.7	930.5
37.5°	4321.8	3410.2	1217.2	738.1	855.1	921.7	959.4	876.4	790.9	758.2	753.2
40°	4593.5	3449.2	928.0	724.3	867.6	934.3	916.7	779.6	674.0	609.9	596.0
42.5°	4866.3	3491.9	734.3	719.3	889.0	969.5	846.3	709.2	550.8	514.3	509.3
45°	5068.8	3484.4	635.0	710.5	907.9	989.6	827.4	608.6	491.7	475.3	476.6
47.5°	5170.6	3401.4	580.9	690.3	915.4	969.5	780.9	567.1	451.4	469.0	484.1
50°	5116.6	3186.4	530.6	651.4	899.1	943.1	706.7	535.7	431.3	504.2	538.2
52.5°	5051.2	2922.3	475.3	591.0	860.1	906.6	677.8	526.9	418.7	486.6	511.8
55°	5137.9	2755.1	384.8	497.9	783.4	821.1	655.1	525.6	389.8	378.5	374.7
57.5°	5016.0	2421.8	275.4	358.4	601.1	650.1	638.8	516.8	345.8	344.5	349.6
60°	3876.7	1477.5	188.6	227.6	368.4	415.0	579.7	494.2	298.0	274.1	275.4
62.5°	2203.0	628.7	129.5	140.8	188.6	223.8	442.6	448.9	275.4	261.5	275.4
65°	767.0	225.1	100.6	94.3	104.4	119.5	254.0	347.1	250.2	226.3	228.9
67.5°	158.4	111.9	89.3	78.0	78.0	78.0	129.5	216.3	206.2	179.8	182.3
70°	100.6	95.6	78.0	66.6	64.1	59.1	74.2	119.5	142.1	130.8	132.0
72.5°	74.2	72.9	61.6	54.1	47.8	42.8	46.5	59.1	72.9	75.4	76.7
75°	45.3	46.5	40.2	34.0	30.2	26.4	27.7	27.7	27.7	25.1	27.7
77.5°	13.8	15.1	12.6	10.1	8.8	8.8	8.8	7.5	6.3	3.8	3.8
80°	3.8	3.8	3.8	3.8	3.8	2.5	2.5	1.3	1.3	0.0	0.0
82.5°	3.8	3.8	3.8	3.8	2.5	2.5	1.3	1.3	0.0	0.0	0.0
85°	3.8	3.8	3.8	3.8	2.5	2.5	1.3	1.3	0.0	0.0	0.0
87.5°	3.8	3.8	3.8	3.8	2.5	2.5	1.3	1.3	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)