

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: P639270

Luminaire Tested: GWS-SA5B-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639270  
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-SA5B-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

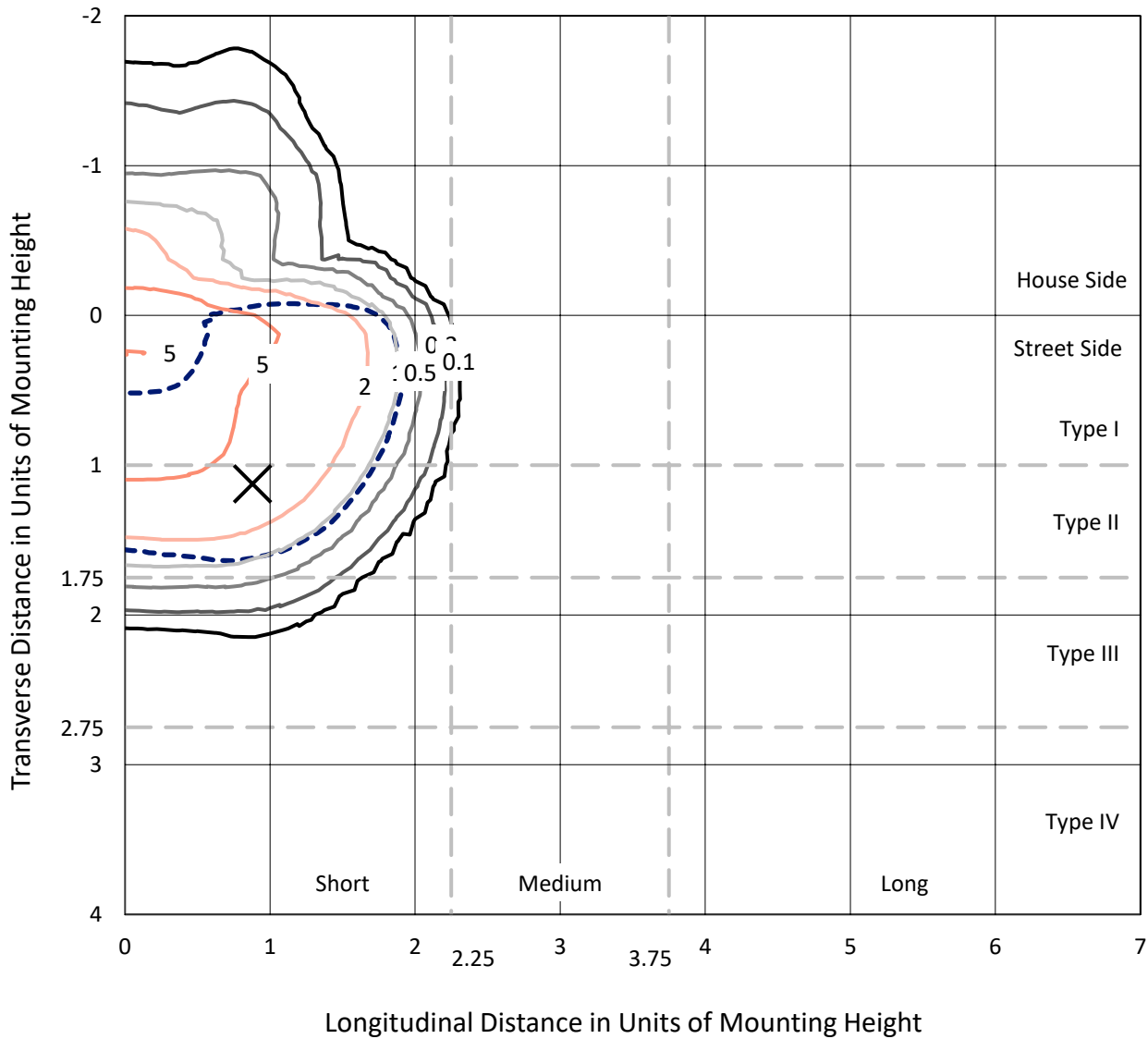
Lumens per Lamp: N/A  
Luminaire Lumens: 11136.3 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

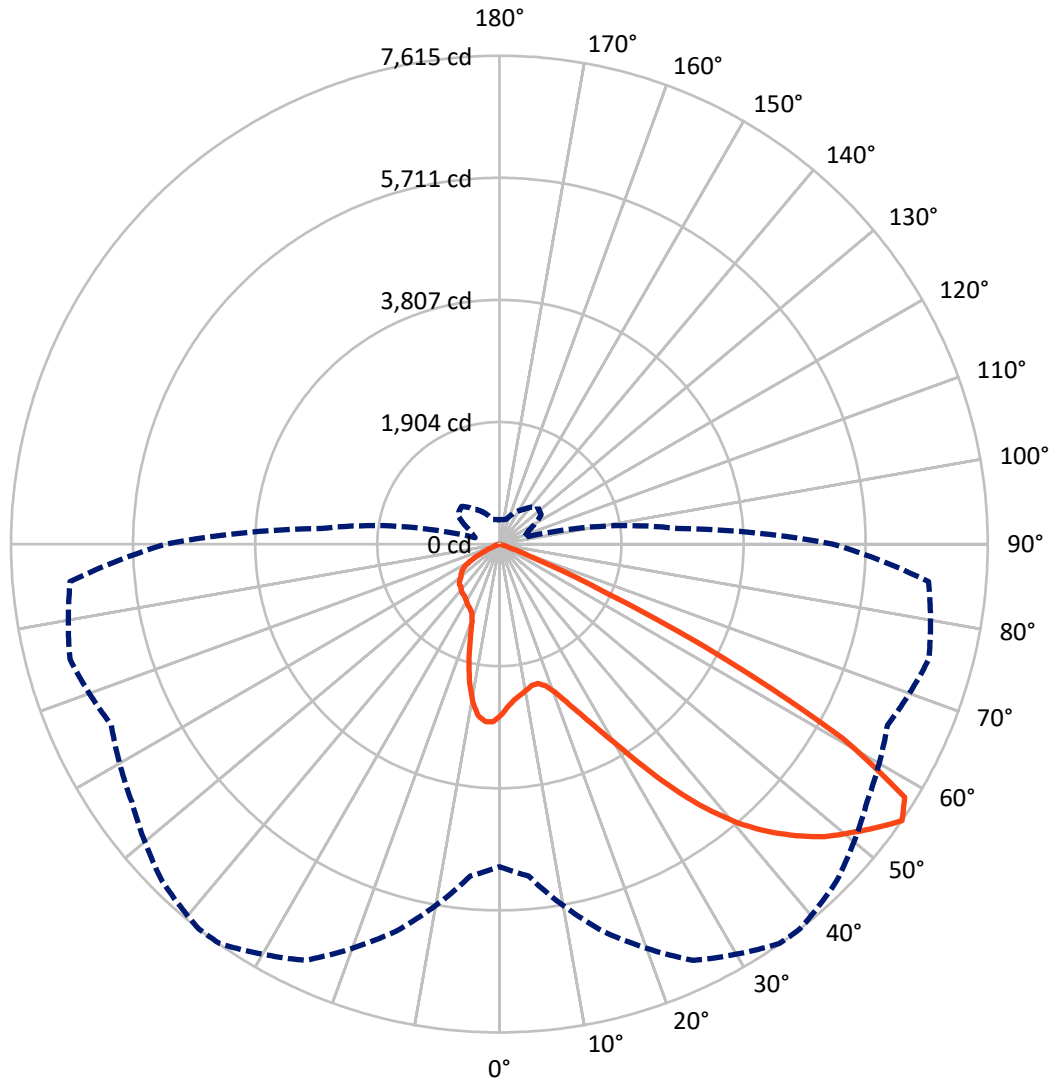
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 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	2169.7	0.0	2169.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	8966.6	0.0	8966.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	11136.3	0.0	11136.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.9	2.2
10°-20°	664.8	6.0
20°-30°	1140.8	10.2
30°-40°	1892.0	17.0
40°-50°	2781.4	25.0
50°-60°	3250.2	29.2
60°-70°	1101.7	9.9
70°-80°	56.3	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°	11136.3	100.0
0°-180°	11136.3	100.0

**Coefficient of Utilization**



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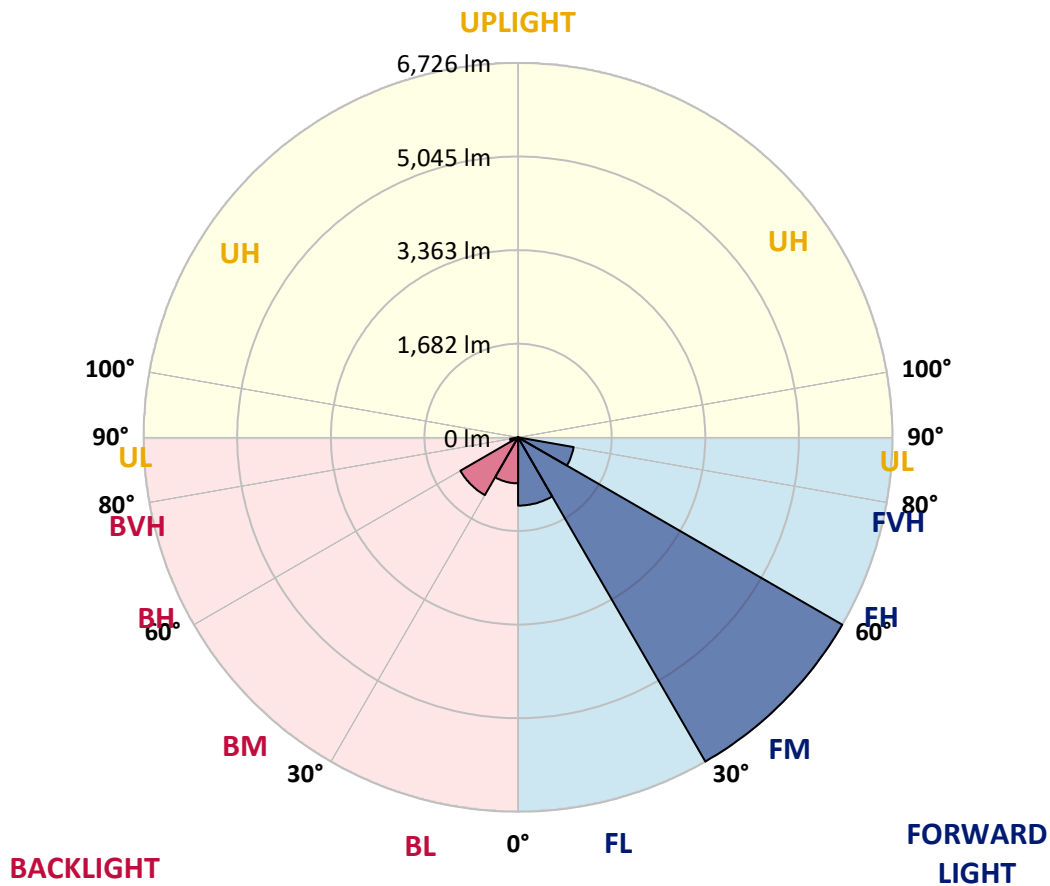
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1225.8	11.0			
FM (30°-60°)	6726.0	60.4			
FH (60°-80°)	1013.6	9.1			G1/1800
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	826.6	7.4	B2/1000		
BM (30°-60°)	1197.6	10.8	B2/2500		
BH (60°-80°)	144.4	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°	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6
2.5°	2487.3	2482.2	2492.4	2512.7	2531.8	2538.2	2557.3	2584.0	2600.6	2640.0	2671.8
5°	2375.3	2372.7	2382.9	2400.7	2426.2	2435.1	2464.4	2508.9	2553.5	2622.2	2689.7
7.5°	2273.4	2272.1	2287.4	2326.9	2363.8	2375.3	2410.9	2465.6	2525.5	2631.1	2730.4
10°	2139.8	2141.0	2170.3	2226.3	2293.8	2316.7	2374.0	2452.9	2530.5	2666.8	2804.2
12.5°	2096.5	2099.0	2114.3	2157.6	2231.4	2260.7	2340.9	2460.5	2559.8	2717.7	2899.7
15°	2202.1	2202.1	2189.4	2194.5	2227.6	2254.3	2338.3	2486.0	2609.5	2778.8	2993.9
17.5°	2407.1	2399.4	2367.6	2324.3	2312.9	2321.8	2389.3	2540.7	2679.5	2850.1	3100.8
20°	2684.6	2687.1	2624.7	2534.4	2461.8	2460.5	2501.3	2637.5	2780.0	2935.3	3216.6
22.5°	3020.6	3010.4	2927.7	2804.2	2678.2	2668.0	2684.6	2785.1	2925.2	3070.3	3359.2
25°	3410.1	3405.0	3287.9	3122.5	2955.7	2931.5	2931.5	3030.8	3132.6	3262.5	3529.8
27.5°	3817.5	3817.5	3704.2	3513.2	3291.8	3248.5	3242.1	3359.2	3426.7	3452.1	3673.6
30°	4236.3	4231.2	4119.1	3923.1	3686.4	3641.8	3624.0	3710.5	3758.9	3682.5	3853.1
32.5°	4661.4	4670.3	4557.0	4375.0	4163.7	4134.4	4079.7	4079.7	4119.1	4012.2	4135.7
35°	5118.4	5115.8	5026.7	4903.3	4722.5	4689.4	4599.0	4457.7	4517.6	4470.5	4526.5
37.5°	5521.9	5541.0	5497.7	5406.1	5259.7	5226.6	5077.6	4821.8	4867.6	4941.4	4991.1
40°	5931.8	5947.0	5990.3	5961.0	5776.5	5715.4	5450.6	5030.5	5081.5	5334.8	5477.3
42.5°	6334.0	6341.6	6429.5	6477.9	6230.9	6124.0	5733.2	5157.8	5211.3	5642.8	5892.3
45°	6589.9	6606.4	6751.5	6899.2	6631.9	6485.5	5978.9	5320.8	5343.7	5856.7	6199.1
47.5°	6579.7	6617.9	6890.3	7158.9	6976.8	6819.0	6274.2	5581.7	5543.5	6057.8	6401.5
50°	6374.7	6420.6	6811.4	7237.8	7225.1	7078.7	6602.6	5959.8	5840.1	6236.0	6426.9
52.5°	5949.6	6082.0	6672.6	7248.0	7424.9	7351.1	7008.7	6468.9	6241.1	6491.9	6467.7
55°	5030.5	5193.5	6251.3	7161.4	7605.7	7614.6	7435.1	6999.7	6676.4	6932.3	6718.4
57.5°	3818.7	3948.6	4811.6	6374.7	7306.5	7452.9	7600.6	7279.8	6945.0	7232.7	6777.0
60°	2301.4	2451.6	3013.0	4678.0	5901.2	6150.7	6729.9	6667.5	6264.0	6387.5	5557.5
62.5°	933.0	1012.0	1391.3	2577.6	3714.4	3947.3	4502.3	4596.5	4497.2	4371.2	3370.7
65°	341.1	373.0	557.5	1065.4	1708.2	1793.5	2086.3	2253.1	2390.5	2035.4	1253.8
67.5°	211.3	231.7	362.8	547.4	621.2	577.9	588.1	701.4	669.6	413.7	224.0
70°	156.6	173.1	283.9	379.3	250.8	193.5	131.1	140.0	126.0	110.7	109.5
72.5°	108.2	123.5	212.6	224.0	96.7	68.7	48.4	67.5	76.4	75.1	77.6
75°	71.3	82.7	133.7	87.8	24.2	19.1	16.5	35.6	45.8	45.8	47.1
77.5°	42.0	48.4	47.1	17.8	5.1	5.1	3.8	6.4	10.2	11.5	14.0
80°	5.1	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°	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6
2.5°	2696.0	2687.1	2724.0	2750.8	2772.4	2782.6	2768.6	2767.3	2767.3	2739.3	2731.7
5°	2727.9	2731.7	2783.9	2806.8	2810.6	2797.9	2766.0	2744.4	2731.7	2702.4	2685.8
7.5°	2789.0	2801.7	2851.3	2847.5	2813.1	2754.6	2670.6	2605.7	2563.6	2517.8	2489.8
10°	2876.8	2901.0	2931.5	2878.1	2768.6	2619.7	2446.5	2323.1	2249.2	2197.0	2165.2
12.5°	2983.7	3007.9	2997.7	2871.7	2643.8	2377.8	2155.0	1976.8	1891.5	1844.4	1811.4
15°	3091.9	3107.2	3041.0	2795.3	2423.6	2065.9	1817.7	1640.8	1536.4	1498.2	1470.2
17.5°	3202.6	3198.8	3048.6	2645.1	2129.6	1714.6	1470.2	1349.3	1320.0	1313.6	1311.1
20°	3318.5	3284.1	3018.1	2430.0	1775.7	1367.1	1228.4	1236.0	1289.5	1314.9	1320.0
22.5°	3450.9	3364.3	2941.7	2138.5	1414.2	1139.3	1153.3	1228.4	1300.9	1335.3	1340.4
25°	3592.2	3438.1	2814.4	1764.3	1115.1	1047.6	1130.3	1216.9	1294.6	1336.6	1341.6
27.5°	3685.1	3456.0	2605.7	1387.5	957.2	1012.0	1099.8	1182.5	1262.7	1308.6	1314.9
30°	3785.6	3448.3	2321.8	1069.2	903.8	981.4	1057.8	1132.9	1206.7	1257.6	1262.7
32.5°	3933.3	3443.2	1975.6	868.1	882.1	957.2	1013.2	1075.6	1126.5	1155.8	1152.0
35°	4126.8	3436.9	1572.0	782.8	869.4	938.1	982.7	1012.0	956.0	938.1	942.0
37.5°	4375.0	3452.1	1232.2	747.2	865.6	933.0	971.2	887.2	800.7	767.6	762.5
40°	4649.9	3491.6	939.4	733.2	878.3	945.8	928.0	789.2	682.3	617.4	603.4
42.5°	4926.2	3534.9	743.4	728.1	899.9	981.4	856.7	717.9	557.5	520.6	515.5
45°	5131.1	3527.2	642.8	719.2	919.0	1001.8	837.6	616.1	497.7	481.2	482.4
47.5°	5234.2	3443.2	588.1	698.8	926.7	981.4	790.5	574.1	457.0	474.8	490.1
50°	5179.5	3225.6	537.2	659.4	910.1	954.7	715.4	542.3	436.6	510.4	544.8
52.5°	5113.3	2958.2	481.2	598.3	870.7	917.8	686.1	533.4	423.9	492.6	518.1
55°	5201.1	2789.0	389.5	504.1	793.0	831.2	663.2	532.1	394.6	383.1	379.3
57.5°	5077.6	2451.6	278.8	362.8	608.5	658.1	646.6	523.2	350.1	348.8	353.9
60°	3924.4	1495.7	190.9	230.4	373.0	420.1	586.8	500.3	301.7	277.5	278.8
62.5°	2230.1	636.5	131.1	142.6	190.9	226.6	448.1	454.4	278.8	264.8	278.8
65°	776.5	227.9	101.8	95.5	105.7	120.9	257.1	351.3	253.3	229.1	231.7
67.5°	160.4	113.3	90.4	78.9	78.9	78.9	131.1	218.9	208.8	182.0	184.6
70°	101.8	96.7	78.9	67.5	64.9	59.8	75.1	120.9	143.8	132.4	133.7
72.5°	75.1	73.8	62.4	54.7	48.4	43.3	47.1	59.8	73.8	76.4	77.6
75°	45.8	47.1	40.7	34.4	30.5	26.7	28.0	28.0	28.0	25.5	28.0
77.5°	14.0	15.3	12.7	10.2	8.9	8.9	8.9	7.6	6.4	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)