

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: P639676

Luminaire Tested: GWS-SA5C-735-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639676  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-735-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

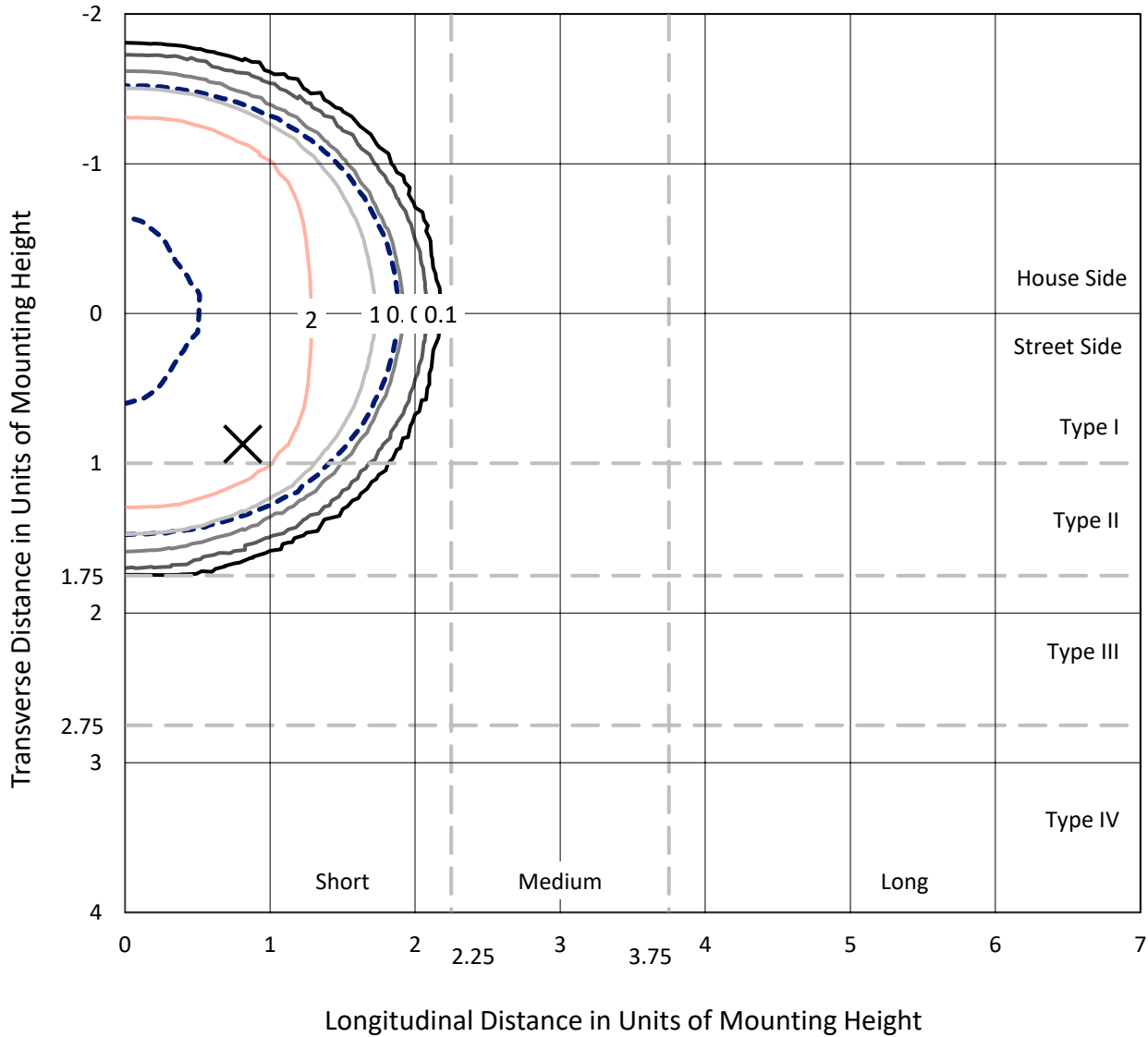
Lumens per Lamp: N/A  
Luminaire Lumens: 15221.9 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

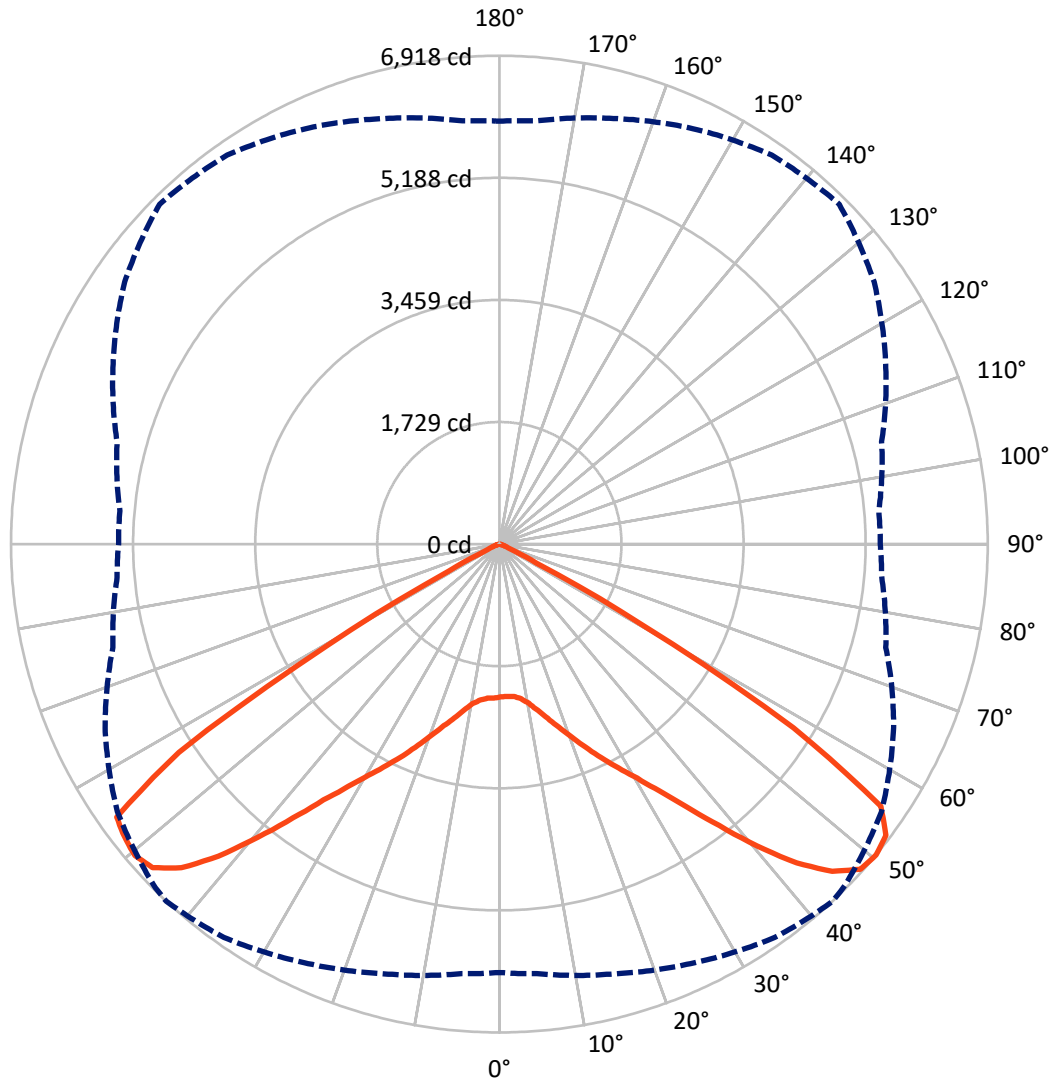
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7610.8	0.0	7610.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7611.1	0.0	7611.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15221.9	0.0	15221.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.2	1.4
10°-20°	733.7	4.8
20°-30°	1484.4	9.8
30°-40°	2754.1	18.1
40°-50°	4571.7	30.0
50°-60°	4665.6	30.7
60°-70°	765.1	5.0
70°-80°	33.5	0.2
80°-90°	0.5	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°	15221.9	100.0
0°-180°	15221.9	100.0

**Coefficient of Utilization**



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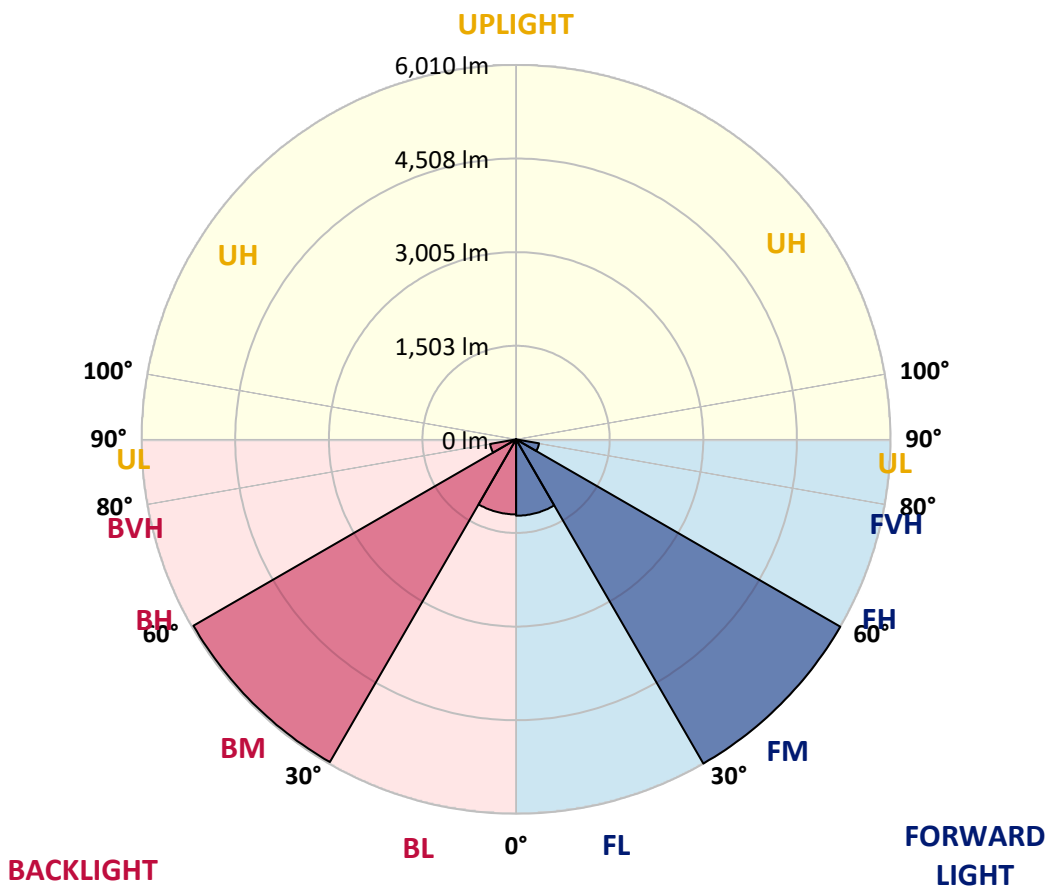
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1226.3	8.1			
FM (30°-60°)	6010.3	39.5			
FH (60°-80°)	374.3	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1205.0	7.9	B3/2500		
BM (30°-60°)	5981.1	39.3	B4/8500		
BH (60°-80°)	424.3	2.8	B1/500		G0/660
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1
2.5°	2124.7	2129.7	2136.5	2143.2	2151.6	2160.0	2165.1	2180.2	2176.9	2190.3	2190.3
5°	2101.1	2106.1	2114.6	2129.7	2148.2	2166.8	2180.2	2210.5	2227.4	2254.3	2264.4
7.5°	2112.9	2119.6	2129.7	2153.3	2181.9	2210.5	2225.7	2274.5	2308.2	2358.7	2387.3
10°	2151.6	2158.3	2175.2	2215.6	2252.6	2293.0	2311.5	2373.8	2427.7	2496.7	2537.1
12.5°	2195.4	2203.8	2237.5	2298.1	2362.1	2415.9	2441.2	2510.2	2565.8	2643.2	2707.2
15°	2240.8	2254.3	2306.5	2395.7	2486.6	2559.0	2586.0	2660.0	2715.6	2798.1	2870.5
17.5°	2346.9	2362.1	2421.0	2516.9	2641.5	2725.7	2749.3	2826.7	2868.8	2924.4	3000.1
20°	2479.9	2508.5	2580.9	2697.1	2833.5	2914.3	2931.1	3006.9	3003.5	3027.1	3092.7
22.5°	2644.9	2665.1	2744.2	2882.3	3035.5	3124.7	3163.4	3195.4	3153.3	3133.1	3175.2
25°	2816.6	2840.2	2926.0	3077.6	3249.3	3352.0	3384.0	3409.2	3341.9	3266.1	3271.2
27.5°	3038.8	3055.7	3139.9	3301.5	3473.2	3589.4	3618.0	3661.8	3572.5	3451.3	3417.7
30°	3303.2	3320.0	3409.2	3579.3	3749.3	3848.6	3892.4	3946.3	3848.6	3697.1	3658.4
32.5°	3612.9	3629.8	3744.3	3919.4	4059.1	4166.8	4208.9	4266.2	4188.7	4018.7	3974.9
35°	3983.3	3993.4	4128.1	4318.4	4466.5	4570.9	4599.5	4666.9	4581.0	4411.0	4387.4
37.5°	4412.6	4424.4	4570.9	4791.4	4943.0	5059.1	5104.6	5123.1	5018.7	4828.5	4810.0
40°	4884.0	4922.8	5065.9	5303.3	5473.3	5619.8	5660.2	5597.9	5451.4	5192.1	5158.5
42.5°	5375.6	5409.3	5569.3	5826.8	6023.8	6173.7	6175.3	6040.7	5791.5	5432.9	5382.4
45°	5784.8	5798.2	6005.3	6264.6	6507.0	6613.1	6623.2	6379.1	6003.6	5572.6	5464.9
47.5°	6065.9	6087.8	6267.9	6517.1	6784.8	6880.8	6860.6	6555.8	6104.6	5663.5	5485.1
50°	6069.3	6106.3	6301.6	6542.4	6801.6	6917.8	6889.2	6606.3	6161.9	5666.9	5436.3
52.5°	5532.2	5592.8	5911.0	6259.5	6656.8	6855.5	6862.2	6672.0	6140.0	5613.0	5392.5
55°	4173.6	4239.2	4639.9	5234.2	6001.9	6555.8	6651.8	6594.6	6114.7	5636.6	5469.9
57.5°	2208.8	2158.3	2380.6	2969.8	3934.5	4914.3	5195.5	5653.4	5833.6	5665.2	5613.0
60°	481.5	513.5	683.5	920.9	1535.4	2311.5	2586.0	3370.5	4303.2	4717.4	5017.0
62.5°	207.1	203.7	212.1	240.8	351.9	585.9	715.5	1168.4	1843.5	2532.1	2998.4
65°	170.0	171.7	178.5	178.5	166.7	168.4	176.8	267.7	431.0	604.4	811.5
67.5°	128.0	129.6	141.4	144.8	136.4	121.2	119.5	101.0	106.1	133.0	138.1
70°	80.8	80.8	87.5	90.9	90.9	84.2	82.5	72.4	70.7	80.8	90.9
72.5°	43.8	43.8	47.1	48.8	47.1	45.5	45.5	43.8	42.1	48.8	62.3
75°	18.5	18.5	20.2	20.2	18.5	18.5	18.5	18.5	18.5	21.9	33.7
77.5°	3.4	5.1	6.7	5.1	3.4	3.4	3.4	5.1	5.1	6.7	10.1
80°	1.7	1.7	3.4	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1
2.5°	2202.1	2183.6	2190.3	2193.7	2188.6	2185.3	2166.8	2161.7	2153.3	2139.8	2136.5
5°	2276.2	2261.0	2259.4	2249.3	2225.7	2197.1	2161.7	2146.6	2129.7	2112.9	2109.5
7.5°	2400.8	2382.3	2370.5	2336.8	2282.9	2237.5	2178.5	2146.6	2124.7	2102.8	2097.7
10°	2560.7	2538.8	2505.2	2442.9	2370.5	2304.8	2235.8	2193.7	2160.0	2129.7	2128.0
12.5°	2730.8	2707.2	2646.6	2567.4	2479.9	2419.3	2331.7	2272.8	2222.3	2176.9	2171.8
15°	2909.2	2880.6	2798.1	2703.8	2623.0	2560.7	2464.8	2370.5	2293.0	2227.4	2220.6
17.5°	3045.6	3010.2	2912.6	2841.9	2776.2	2712.2	2604.5	2479.9	2377.2	2298.1	2279.6
20°	3131.4	3097.8	3005.2	2966.5	2936.2	2890.7	2762.7	2633.1	2518.6	2421.0	2404.1
22.5°	3213.9	3173.5	3092.7	3092.7	3116.3	3097.8	2959.7	2811.6	2676.9	2564.1	2538.8
25°	3306.5	3274.5	3217.3	3264.4	3323.4	3321.7	3180.3	2995.1	2840.2	2713.9	2688.7
27.5°	3441.2	3409.2	3389.0	3478.3	3552.3	3547.3	3392.4	3192.1	3028.7	2904.2	2880.6
30°	3678.6	3648.3	3626.4	3734.2	3828.4	3793.1	3623.0	3429.4	3264.4	3123.0	3106.2
32.5°	3995.1	3963.1	3934.5	4042.3	4126.4	4081.0	3919.4	3737.5	3547.3	3409.2	3375.6
35°	4411.0	4343.6	4315.0	4442.9	4478.3	4427.8	4272.9	4113.0	3910.9	3752.7	3730.8
37.5°	4840.3	4761.1	4740.9	4852.1	4909.3	4890.8	4709.0	4542.3	4323.4	4148.3	4123.1
40°	5207.3	5134.9	5099.5	5272.9	5402.6	5414.4	5251.1	5047.4	4789.8	4607.9	4562.5
42.5°	5422.8	5360.5	5352.1	5621.4	5833.6	5985.1	5789.8	5579.4	5308.3	5102.9	5065.9
45°	5471.6	5431.2	5501.9	5855.5	6185.4	6461.6	6294.9	6072.6	5779.7	5562.5	5527.2
47.5°	5466.6	5453.1	5579.4	5976.7	6394.2	6734.3	6651.8	6400.9	6118.1	5890.8	5857.1
50°	5394.2	5395.9	5606.3	6037.3	6478.4	6808.4	6725.9	6493.5	6241.0	6017.1	5990.2
52.5°	5365.5	5355.4	5555.8	6018.8	6564.3	6774.7	6589.5	6328.5	6047.4	5771.3	5730.9
55°	5466.6	5441.3	5562.5	6003.6	6574.4	6756.2	6267.9	5702.3	5126.5	4799.9	4772.9
57.5°	5618.1	5591.1	5648.4	5892.5	6047.4	5618.1	4613.0	3700.5	3107.9	2857.0	2747.6
60°	5017.0	4998.5	4954.8	4660.1	3996.8	3015.3	2054.0	1309.8	941.1	761.0	761.0
62.5°	3112.9	3087.7	2850.3	2117.9	1538.8	890.6	489.9	306.4	232.3	217.2	215.5
65°	873.8	868.7	718.9	508.4	323.2	200.3	176.8	180.1	176.8	171.7	170.0
67.5°	131.3	144.8	144.8	117.9	112.8	126.3	148.2	158.3	149.8	141.4	138.1
70°	84.2	90.9	87.5	75.8	80.8	94.3	106.1	107.7	102.7	94.3	92.6
72.5°	58.9	65.7	53.9	48.8	50.5	55.6	60.6	60.6	58.9	55.6	52.2
75°	35.4	35.4	25.3	23.6	23.6	25.3	25.3	28.6	28.6	26.9	25.3
77.5°	11.8	13.5	8.4	6.7	6.7	6.7	8.4	10.1	10.1	8.4	6.7
80°	1.7	3.4	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	1.7
82.5°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)