

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: P641860

Luminaire Tested: GWS-SA6B-760-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641860  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-760-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

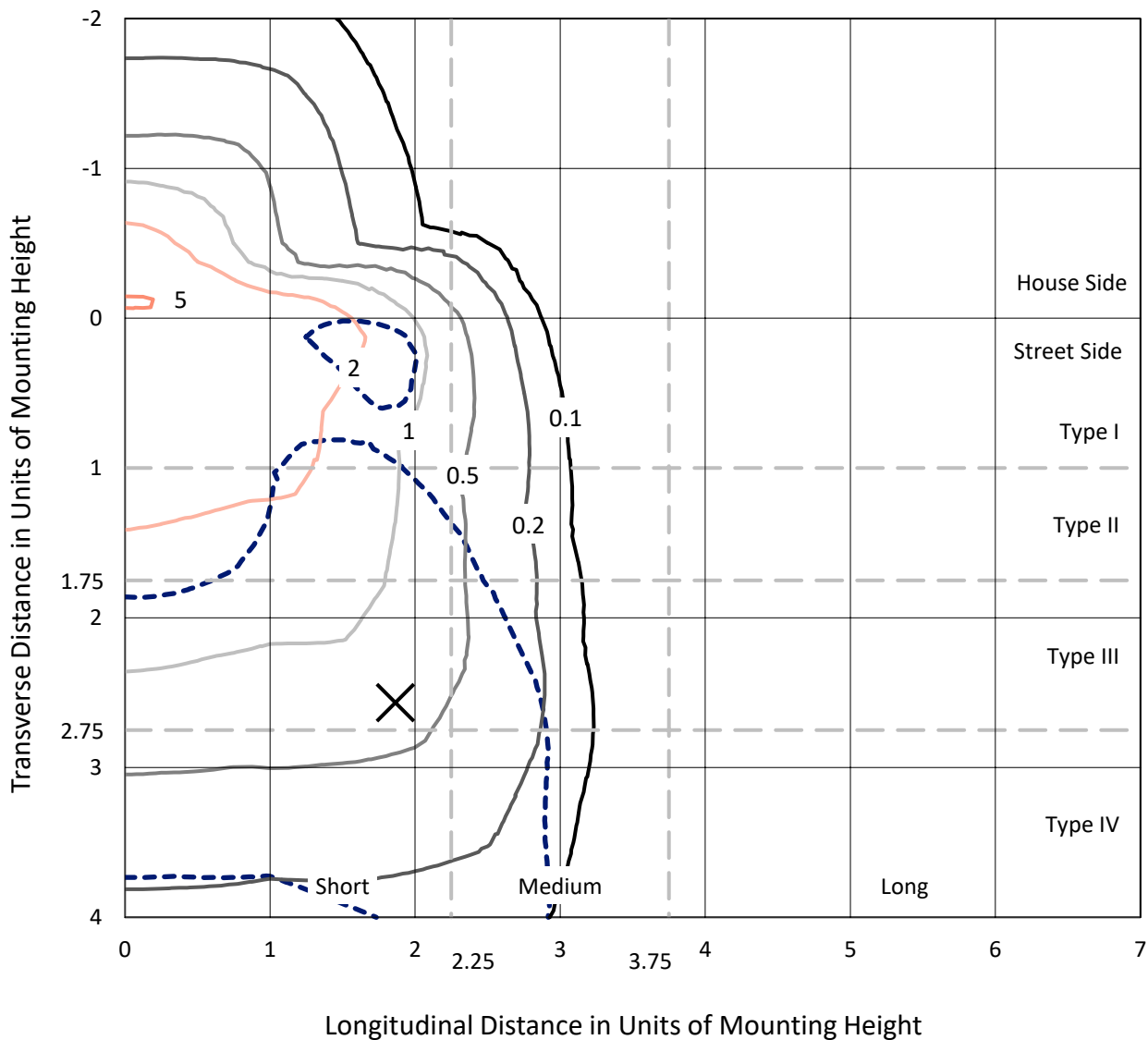
Lumens per Lamp: N/A  
Luminaire Lumens: 20632.8 lumens  
Efficiency: N/A  
Efficacy: 148.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

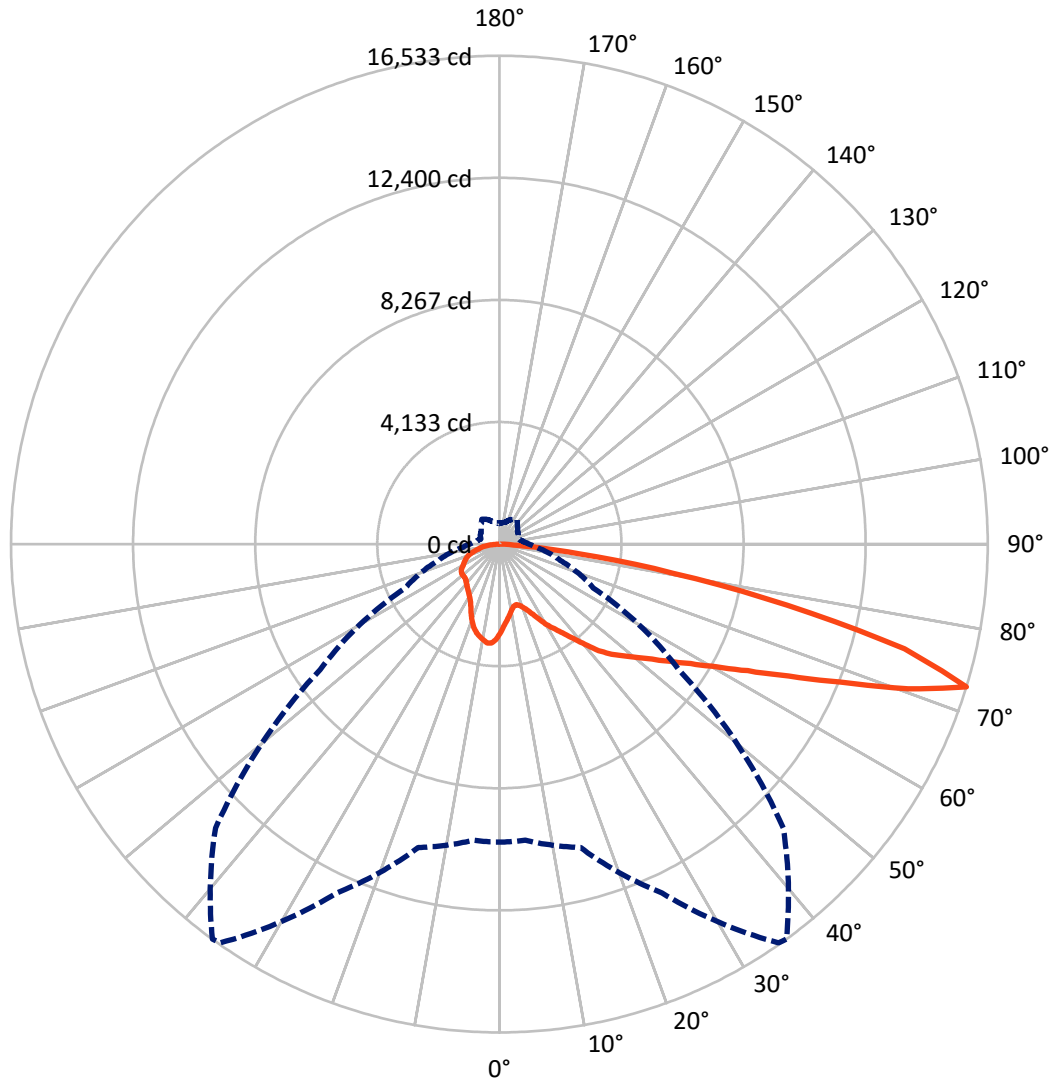
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4756.7	0.0	4756.7
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	15876.0	0.0	15876.0
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	20632.8	0.0	20632.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.3	1.4
10°-20°	796.4	3.9
20°-30°	1318.9	6.4
30°-40°	1975.1	9.6
40°-50°	2881.6	14.0
50°-60°	4101.3	19.9
60°-70°	5181.7	25.1
70°-80°	3692.4	17.9
80°-90°	403.1	2.0
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°	20632.8	100.0
0°-180°	20632.8	100.0

**Coefficient of Utilization**



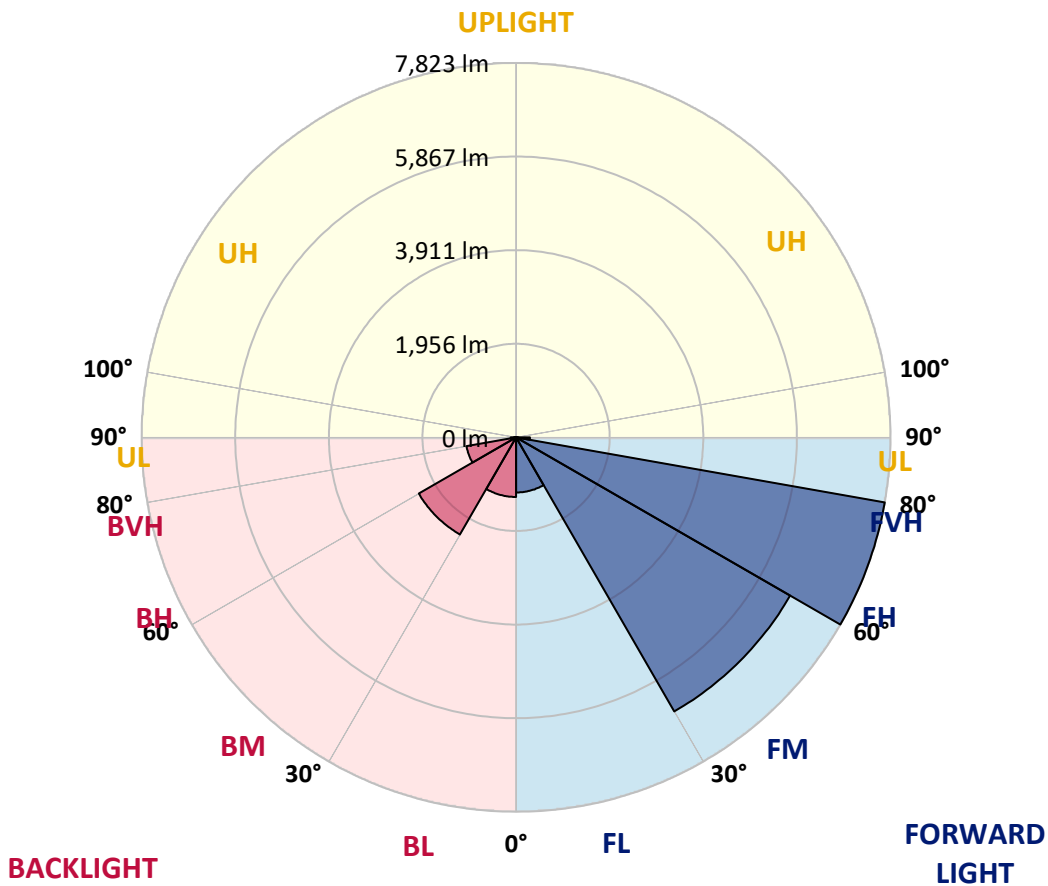
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1151.9	5.6			
FM (30°-60°)	6612.3	32.0			
FH (60°-80°)	7822.6	37.9			G4/12000
FVH (80°-90°)	289.3	1.4			G3/500
BL (0°-30°)	1245.6	6.0	B3/2500		
BM (30°-60°)	2345.7	11.4	B2/2500		
BH (60°-80°)	1051.6	5.1	B3/2500		G3/2500
BVH (80°-90°)	113.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7
2.5°	2754.8	2750.2	2741.0	2768.6	2796.1	2793.1	2831.4	2868.1	2907.9	2949.3	3004.4
5°	2534.3	2531.2	2523.6	2564.9	2606.3	2604.7	2667.5	2727.2	2808.4	2897.2	3007.5
7.5°	2313.8	2306.1	2316.8	2368.9	2427.1	2433.2	2519.0	2617.0	2734.9	2868.1	3024.3
10°	2119.3	2117.8	2122.4	2180.6	2267.8	2274.0	2384.2	2520.5	2676.7	2854.3	3062.6
12.5°	2068.8	2065.7	2053.5	2082.6	2148.4	2157.6	2278.6	2445.5	2636.9	2862.0	3114.6
15°	2151.5	2143.8	2100.9	2087.1	2119.3	2127.0	2229.6	2401.1	2613.9	2875.8	3180.5
17.5°	2293.9	2289.3	2208.1	2151.5	2172.9	2179.0	2255.6	2393.4	2607.8	2903.3	3261.6
20°	2502.1	2482.2	2355.1	2269.4	2269.4	2278.6	2324.5	2427.1	2615.4	2937.0	3353.5
22.5°	2777.8	2737.9	2558.8	2442.4	2411.8	2424.0	2443.9	2511.3	2647.6	2993.7	3468.4
25°	3087.1	3050.3	2837.5	2673.6	2630.8	2635.3	2618.5	2630.8	2718.0	3071.8	3610.8
27.5°	3416.3	3391.8	3165.2	2956.9	2889.5	2889.5	2829.8	2800.7	2816.0	3160.6	3770.0
30°	3710.3	3676.6	3485.2	3257.1	3168.2	3168.2	3054.9	2992.1	2955.4	3269.3	3982.9
32.5°	3865.0	3845.1	3718.0	3543.4	3434.7	3417.8	3319.8	3246.3	3160.6	3430.1	4270.8
35°	4067.1	4062.5	3985.9	3849.7	3711.8	3687.3	3620.0	3561.8	3413.2	3630.7	4653.6
37.5°	4321.3	4313.6	4301.4	4220.2	4054.9	4050.3	3990.5	3920.1	3727.2	3920.1	5117.6
40°	4606.1	4592.3	4577.0	4575.5	4476.0	4459.1	4454.5	4374.9	4105.4	4269.2	5601.5
42.5°	4998.1	4950.7	4806.7	4871.0	4944.5	4929.2	4987.4	4868.0	4577.0	4684.2	6059.3
45°	5480.5	5364.1	5079.3	5097.7	5282.9	5313.6	5515.7	5486.6	5096.1	5163.5	6541.7
47.5°	5769.9	5668.8	5403.9	5388.6	5619.8	5658.1	6097.6	6152.7	5655.1	5740.8	7137.3
50°	6007.2	5936.8	5719.4	5740.8	5985.8	6024.1	6674.9	6792.8	6181.8	6331.9	7829.5
52.5°	6293.6	6192.5	6024.1	6125.2	6425.3	6471.2	7316.5	7443.6	6656.5	6981.1	8546.1
55°	6454.4	6413.0	6416.1	6570.8	6947.5	7010.2	7988.7	7967.3	7091.4	7537.0	9085.1
57.5°	6825.0	6809.6	6950.5	7008.7	7556.9	7638.1	8661.0	8477.2	7486.5	7967.3	9343.9
60°	7478.8	7440.5	7563.0	7651.9	8310.3	8425.2	9411.3	8976.4	7754.4	8287.3	9256.6
62.5°	8397.6	8350.1	8354.7	8495.6	9319.4	9440.4	10245.9	9392.9	7837.1	8336.3	8703.8
65°	9539.9	9471.0	9392.9	9584.3	10659.3	10760.4	11153.9	9696.1	7639.6	7864.7	7549.3
67.5°	10745.1	10688.4	10596.5	10997.7	12394.3	12455.5	12172.2	9670.1	7013.3	6602.9	5295.2
70°	10815.5	10829.3	11264.2	12715.8	14659.0	14674.3	13135.4	9146.4	5679.6	4280.0	2638.4
72.5°	10089.7	10066.7	10633.3	13029.7	16481.3	16533.3	13590.2	7409.9	3509.7	2134.6	1237.3
75°	8195.5	8235.3	8830.9	11400.4	14126.1	14172.1	11078.9	4368.8	1667.6	1044.3	791.7
77.5°	3528.1	3750.1	4924.6	8031.6	10117.2	9974.8	5710.2	1770.2	889.7	744.2	606.4
80°	1018.3	1105.6	1754.9	3819.0	6062.4	5955.2	2260.2	663.0	620.2	558.9	434.9
82.5°	329.2	364.4	643.1	1520.6	2716.5	2713.4	857.5	392.0	405.8	379.8	280.2
85°	91.9	105.7	197.5	460.9	840.7	823.8	248.1	185.3	215.9	219.0	139.3
87.5°	0.0	0.0	1.5	3.1	3.1	3.1	6.1	27.6	62.8	79.6	56.7
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°	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7
2.5°	3038.1	3033.5	3096.3	3145.3	3191.2	3221.8	3231.0	3237.1	3249.4	3255.5	3249.4
5°	3059.5	3082.5	3186.6	3263.2	3324.4	3361.2	3362.7	3359.6	3368.8	3361.2	3356.6
7.5°	3105.5	3149.9	3281.6	3362.7	3402.5	3404.1	3367.3	3324.4	3303.0	3284.6	3278.5
10°	3166.7	3232.6	3376.5	3430.1	3417.8	3361.2	3280.0	3212.6	3174.4	3146.8	3140.7
12.5°	3250.9	3324.4	3460.7	3459.2	3382.6	3281.6	3186.6	3105.5	3050.3	3018.2	3007.5
15°	3330.6	3424.0	3522.0	3450.0	3329.0	3206.5	3084.0	2975.3	2901.8	2851.3	2842.1
17.5°	3428.6	3528.1	3566.4	3420.9	3261.6	3103.9	2940.1	2797.7	2698.1	2638.4	2633.8
20°	3541.9	3630.7	3587.8	3370.4	3174.4	2967.6	2745.6	2586.3	2479.2	2421.0	2425.6
22.5°	3673.6	3737.9	3593.9	3301.5	3053.4	2774.7	2526.6	2373.5	2301.5	2270.9	2272.4
25°	3814.4	3855.8	3583.2	3208.1	2868.1	2538.9	2301.5	2231.1	2225.0	2217.3	2220.4
27.5°	3981.4	3972.2	3551.1	3076.4	2618.5	2264.8	2143.8	2162.2	2186.7	2183.6	2186.7
30°	4204.9	4117.6	3509.7	2894.1	2321.4	2035.1	2050.4	2102.5	2134.6	2137.7	2146.9
32.5°	4460.6	4278.4	3443.9	2646.1	2038.1	1906.5	1963.1	2025.9	2064.2	2071.8	2084.1
35°	4765.4	4462.2	3327.5	2336.7	1834.5	1829.9	1882.0	1924.8	1966.2	1969.2	1969.2
37.5°	5116.0	4645.9	3142.2	1995.3	1708.9	1764.0	1813.0	1822.2	1833.0	1823.8	1828.4
40°	5437.6	4823.6	2878.8	1684.4	1606.3	1705.9	1747.2	1716.6	1682.9	1659.9	1664.5
42.5°	5707.1	4944.5	2529.7	1467.0	1502.2	1653.8	1685.9	1623.2	1557.3	1514.4	1520.6
45°	6010.3	5056.3	2119.3	1320.0	1413.4	1617.0	1638.5	1557.3	1473.1	1408.8	1399.6
47.5°	6428.4	5284.5	1754.9	1217.4	1350.6	1597.1	1632.4	1522.1	1411.8	1315.4	1304.7
50°	6944.4	5607.6	1450.1	1150.0	1321.5	1586.4	1630.8	1483.8	1352.1	1238.8	1231.2
52.5°	7507.9	5923.0	1225.0	1097.9	1292.4	1554.3	1623.2	1440.9	1289.3	1166.8	1157.7
55°	7883.1	6047.1	1073.4	1048.9	1244.9	1503.7	1592.5	1399.6	1194.4	1082.6	1068.8
57.5°	7993.3	5887.8	967.8	1004.5	1183.7	1433.3	1534.4	1312.3	1136.2	1047.4	1036.7
60°	7803.5	5486.6	901.9	967.8	1116.3	1342.9	1433.3	1261.8	1090.3	1010.7	1003.0
62.5°	7267.5	4868.0	851.4	929.5	1047.4	1248.0	1369.0	1200.5	1039.7	977.0	966.2
65°	6189.5	3992.1	810.1	889.7	981.6	1157.7	1298.5	1139.3	984.6	937.1	924.9
67.5°	4329.0	2803.8	765.6	842.2	915.7	1070.4	1225.0	1082.6	928.0	892.7	880.5
70°	2116.2	1486.9	712.0	787.1	845.3	981.6	1151.5	1013.7	852.9	833.0	816.2
72.5°	1007.6	831.5	649.3	712.0	748.8	863.6	1029.0	914.2	764.1	721.2	692.1
75°	675.3	591.1	566.6	623.2	632.4	724.3	882.0	788.6	673.8	624.8	600.3
77.5°	511.5	451.7	476.2	526.8	508.4	595.7	725.8	702.9	607.9	563.5	551.3
80°	359.9	329.2	378.2	408.9	395.1	506.9	653.9	601.8	500.7	451.7	442.5
82.5°	226.6	220.5	278.7	283.3	287.9	401.2	537.5	473.2	388.9	320.0	297.1
85°	113.3	125.6	166.9	166.9	165.4	206.7	306.3	266.4	209.8	166.9	162.3
87.5°	38.3	53.6	72.0	58.2	44.4	35.2	39.8	49.0	52.1	50.5	50.5
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)