

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: P639772

Luminaire Tested: GWS-SA5C-740-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-740-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

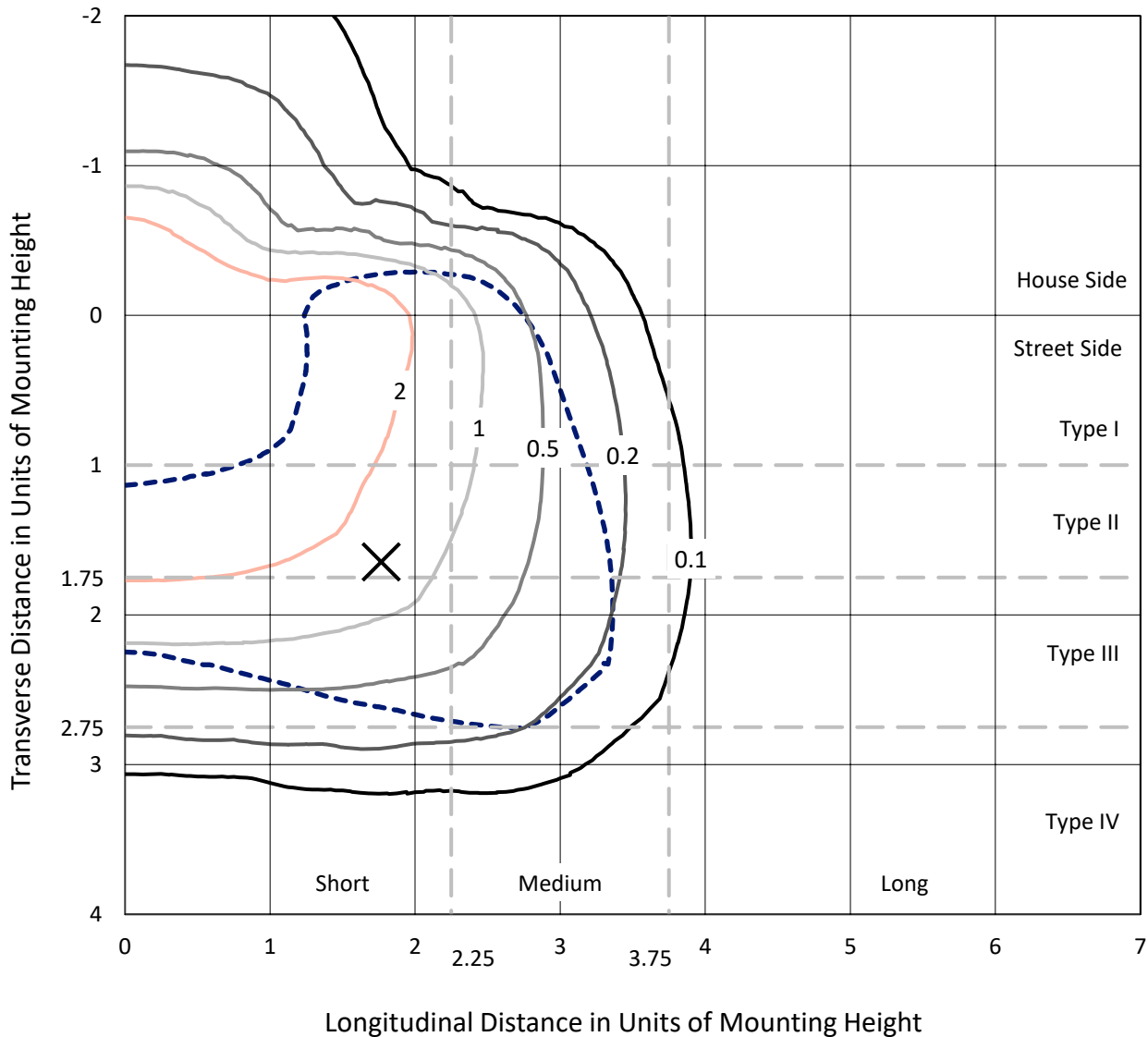
Lumens per Lamp: N/A  
Luminaire Lumens: 23608.5 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

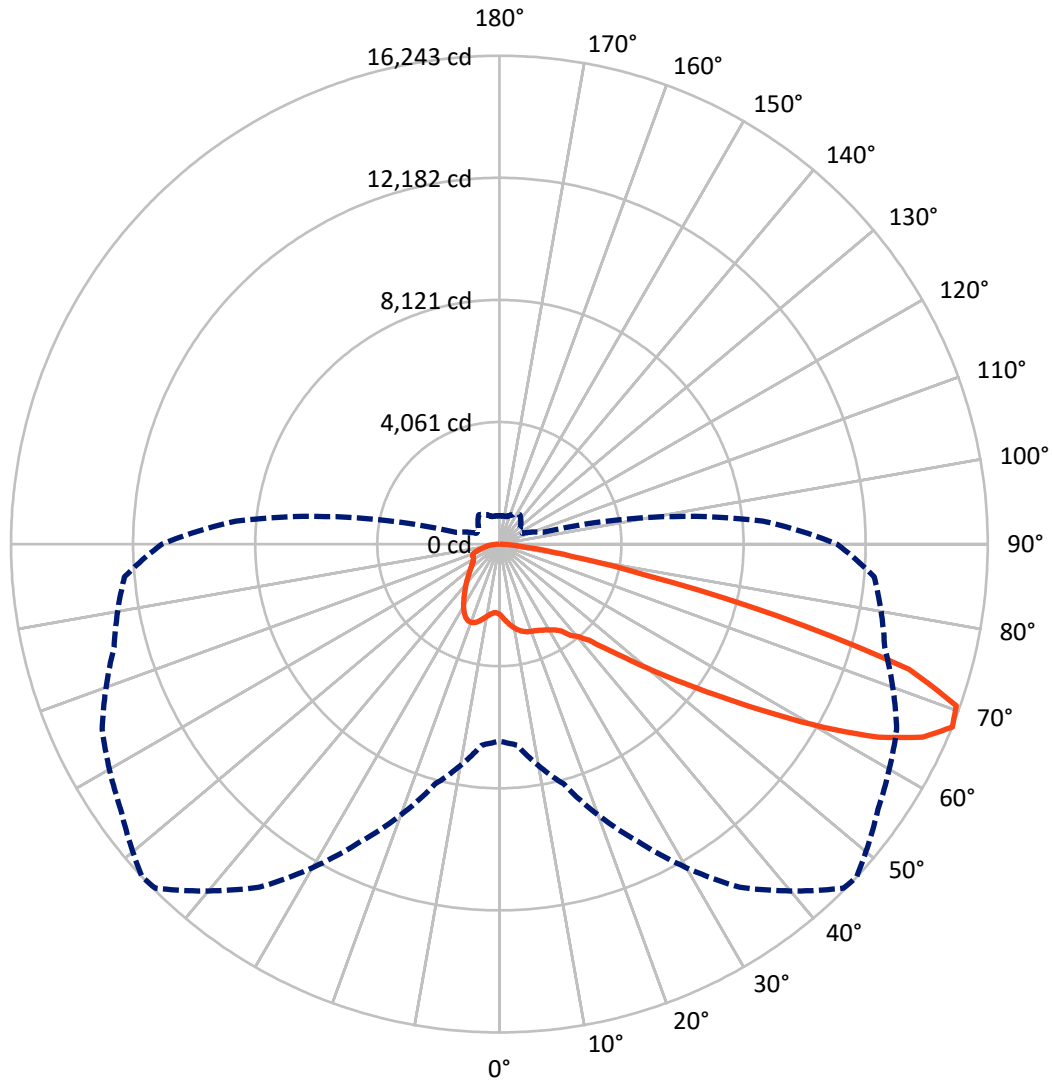
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5380.6	0.0	5380.6
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	18227.9	0.0	18227.9
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	23608.5	0.0	23608.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.2	1.0
10°-20°	796.9	3.4
20°-30°	1354.5	5.7
30°-40°	1984.2	8.4
40°-50°	3023.1	12.8
50°-60°	5409.0	22.9
60°-70°	7217.8	30.6
70°-80°	3264.0	13.8
80°-90°	319.8	1.4
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°	23608.5	100.0
0°-180°	23608.5	100.0

**Coefficient of Utilization**



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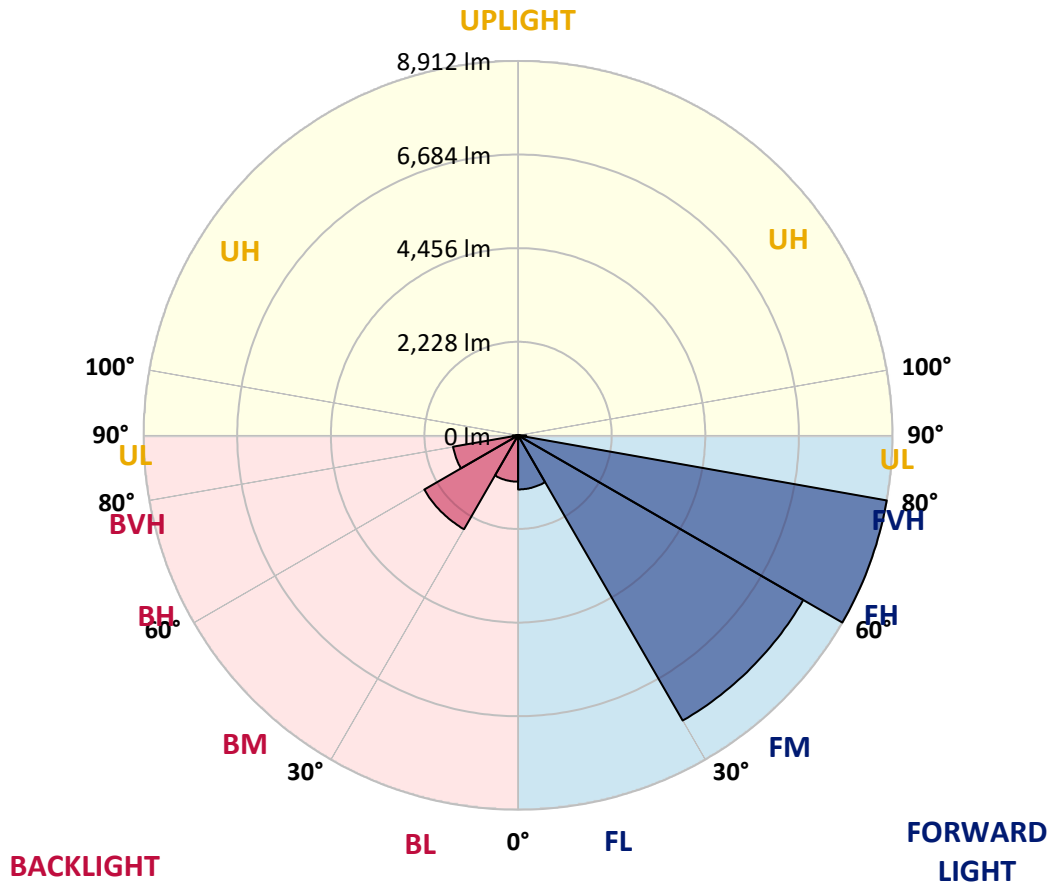
CATALOG NUMBER: GWS-SA5C-740-U-T4W-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.5	5.5			
FM (30°-60°)	7838.3	33.2			
FH (60°-80°)	8911.9	37.7			G4/12000
FVH (80°-90°)	190.2	0.8			G2/225
BL (0°-30°)	1103.0	4.7	B3/2500		
BM (30°-60°)	2578.1	10.9	B3/5000		
BH (60°-80°)	1569.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	129.6	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3
2.5°	2495.7	2504.2	2502.5	2488.9	2480.3	2465.0	2466.7	2442.8	2406.9	2383.0	2355.7
5°	2715.9	2729.6	2712.5	2690.3	2656.2	2606.6	2601.5	2546.9	2478.6	2430.8	2381.3
7.5°	2907.1	2915.6	2895.1	2857.6	2808.1	2741.5	2729.6	2664.7	2579.3	2504.2	2432.5
10°	3055.6	3065.8	3038.5	2989.0	2924.2	2857.6	2849.0	2782.5	2692.0	2603.2	2512.8
12.5°	3181.9	3185.3	3156.3	3089.7	3019.8	2951.5	2942.9	2881.5	2797.8	2707.4	2608.4
15°	3255.3	3257.0	3221.2	3147.8	3081.2	3021.5	3016.3	2963.4	2886.6	2801.2	2695.4
17.5°	3250.2	3253.6	3228.0	3163.1	3105.1	3069.3	3064.1	3030.0	2970.2	2893.4	2787.6
20°	3187.0	3190.5	3173.4	3130.7	3100.0	3089.7	3091.4	3081.2	3045.4	2982.2	2874.7
22.5°	3137.5	3142.7	3127.3	3096.6	3093.2	3117.1	3122.2	3127.3	3110.2	3053.9	2949.8
25°	3161.4	3170.0	3146.1	3103.4	3110.2	3163.1	3173.4	3190.5	3176.8	3129.0	3038.5
27.5°	3327.0	3332.1	3270.7	3183.6	3163.1	3219.5	3234.8	3262.2	3251.9	3207.5	3137.5
30°	3711.1	3707.7	3576.2	3362.9	3277.5	3299.7	3311.7	3350.9	3354.3	3325.3	3258.7
32.5°	4252.2	4235.2	4032.0	3692.3	3444.8	3390.2	3403.8	3456.8	3496.0	3465.3	3374.8
35°	4824.1	4808.7	4585.1	4187.4	3753.8	3564.3	3548.9	3589.9	3649.6	3564.3	3434.6
37.5°	5368.6	5344.7	5116.0	4624.4	4134.4	3869.9	3847.7	3806.7	3770.8	3607.0	3508.0
40°	5972.9	5945.6	5745.9	5189.4	4554.4	4103.7	4047.4	3885.2	3852.8	3748.7	3699.2
42.5°	6618.2	6618.2	6452.6	5904.6	5061.4	4438.3	4364.9	4120.8	4154.9	4086.6	4028.6
45°	7263.4	7282.2	7150.8	6625.0	5739.1	5069.9	4952.1	4605.6	4687.5	4656.8	4627.8
47.5°	7813.1	7849.0	7823.4	7360.7	6568.7	5838.1	5658.8	5298.6	5474.5	5547.9	5629.8
50°	8405.5	8444.7	8419.1	8236.5	7540.0	6768.4	6607.9	6235.8	6538.0	6758.2	7026.2
52.5°	9284.6	9340.9	9127.5	9057.5	8719.6	7825.1	7681.7	7258.3	7806.3	8171.6	8769.1
55°	10027.1	10025.4	9950.3	10110.8	9986.2	9117.3	8958.5	8574.5	9274.3	9661.8	10535.8
57.5°	10372.0	10412.9	10670.7	11124.8	11374.0	10696.3	10544.4	10151.8	10849.9	11051.4	11995.4
60°	10549.5	10600.7	11099.2	11997.1	12667.9	12420.4	12360.7	11860.5	12253.1	12229.2	13226.1
62.5°	10300.3	10402.7	11203.3	12396.5	13591.4	14153.1	14134.3	13378.1	13446.3	13212.5	13989.2
65°	9156.6	9267.5	10523.9	12196.8	14118.9	15470.9	15476.0	14752.2	14363.0	13690.4	13861.2
67.5°	6548.2	6707.0	8260.4	10913.1	13932.8	16182.7	16242.5	15375.3	14578.1	13267.1	12516.0
70°	3569.4	3685.5	4902.6	7932.6	12256.5	16012.0	16123.0	15074.9	13629.0	11476.4	9634.5
72.5°	1621.7	1659.2	2280.6	4352.9	8373.0	13782.6	14246.9	13453.2	11193.0	8477.2	6126.6
75°	742.6	759.6	993.5	2082.6	4375.1	9223.1	9549.2	10020.3	7789.2	5353.3	3193.9
77.5°	466.0	471.1	565.0	952.5	2181.6	4603.9	4947.0	5966.1	4561.2	2649.3	1334.9
80°	274.8	280.0	351.6	515.5	1024.2	2106.5	2432.5	2359.1	2144.0	1143.7	607.7
82.5°	138.3	143.4	203.1	293.6	558.2	838.2	986.7	991.8	798.9	619.7	343.1
85°	49.5	51.2	66.6	116.1	237.3	276.5	309.0	377.3	390.9	360.2	165.6
87.5°	0.0	0.0	1.7	3.4	6.8	27.3	29.0	54.6	114.4	128.0	66.6
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°	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3
2.5°	2347.2	2321.6	2313.0	2304.5	2290.8	2285.7	2275.5	2265.2	2265.2	2255.0	2249.9
5°	2359.1	2325.0	2302.8	2292.6	2284.0	2289.1	2289.1	2292.6	2304.5	2297.7	2301.1
7.5°	2401.8	2362.5	2331.8	2323.3	2323.3	2343.8	2357.4	2374.5	2396.7	2400.1	2400.1
10°	2476.9	2430.8	2398.4	2393.3	2401.8	2430.8	2451.3	2471.8	2499.1	2500.8	2504.2
12.5°	2558.9	2512.8	2480.3	2487.2	2495.7	2533.2	2555.4	2572.5	2599.8	2599.8	2598.1
15°	2644.2	2593.0	2565.7	2579.3	2604.9	2647.6	2651.0	2652.7	2666.4	2663.0	2661.3
17.5°	2733.0	2678.3	2657.9	2678.3	2705.7	2726.1	2709.1	2685.2	2680.1	2673.2	2669.8
20°	2820.0	2763.7	2755.2	2770.5	2779.1	2762.0	2709.1	2664.7	2644.2	2634.0	2630.5
22.5°	2895.1	2847.3	2842.2	2842.2	2799.5	2739.8	2661.3	2601.5	2574.2	2560.6	2557.1
25°	2983.9	2939.5	2931.0	2884.9	2775.6	2666.4	2560.6	2505.9	2483.7	2476.9	2478.6
27.5°	3088.0	3057.3	3030.0	2898.6	2707.4	2536.7	2417.2	2393.3	2384.7	2393.3	2398.4
30°	3216.1	3185.3	3123.9	2881.5	2598.1	2367.7	2253.3	2251.6	2277.2	2299.4	2302.8
32.5°	3320.2	3306.5	3205.8	2826.9	2444.5	2181.6	2084.3	2091.1	2137.2	2167.9	2173.1
35°	3402.1	3424.3	3274.1	2736.4	2261.8	2005.8	1929.0	1932.4	1958.0	2000.6	2002.4
37.5°	3518.2	3593.3	3335.6	2598.1	2051.9	1853.8	1783.9	1758.2	1754.8	1766.8	1770.2
40°	3752.1	3864.7	3379.9	2396.7	1848.7	1717.3	1638.8	1589.3	1546.6	1514.1	1503.9
42.5°	4105.4	4235.2	3405.5	2152.6	1667.8	1582.4	1493.7	1430.5	1355.4	1287.1	1263.2
45°	4754.1	4796.8	3405.5	1893.1	1507.3	1456.1	1367.3	1292.2	1196.6	1116.4	1099.3
47.5°	5792.0	5655.4	3409.0	1642.2	1365.6	1345.1	1268.3	1183.0	1077.1	1010.6	1000.3
50°	7355.6	6876.0	3478.9	1433.9	1247.8	1251.3	1194.9	1101.0	1005.4	955.9	947.4
52.5°	9127.5	8379.9	3666.7	1280.3	1148.8	1174.4	1143.7	1053.2	967.9	925.2	916.7
55°	10793.6	9762.6	3827.2	1171.0	1065.2	1109.6	1107.9	1024.2	947.4	904.7	899.6
57.5°	12210.4	10710.0	3803.3	1082.3	993.5	1049.8	1075.4	1005.4	933.7	897.9	892.8
60°	13091.3	11211.8	3463.6	1000.3	938.9	1007.2	1056.7	1000.3	940.6	932.0	933.7
62.5°	13473.7	11119.6	2811.5	938.9	903.0	986.7	1077.1	1036.2	1003.7	1024.2	1036.2
65°	12879.6	10327.6	2068.9	892.8	868.9	991.8	1124.9	1092.5	1003.7	1017.4	1022.5
67.5°	11230.6	8791.2	1495.4	846.7	826.2	1007.2	1193.2	1084.0	945.7	945.7	935.5
70°	8093.1	6322.9	1085.7	800.6	783.5	985.0	1196.6	1025.9	879.1	874.0	848.4
72.5°	4870.2	3729.9	846.7	749.4	718.7	874.0	1121.5	957.6	814.3	771.6	740.9
75°	2529.8	1869.2	710.1	693.1	616.2	740.9	1025.9	851.8	696.5	658.9	641.8
77.5°	1084.0	874.0	609.4	617.9	512.1	623.1	827.9	737.4	617.9	570.2	554.8
80°	534.3	496.7	481.4	495.0	409.7	481.4	713.5	645.3	524.1	469.4	447.2
82.5°	305.6	290.2	346.5	351.6	291.9	402.9	602.6	546.3	433.6	373.8	338.0
85°	141.7	151.9	210.0	211.7	180.9	276.5	394.3	307.3	230.5	191.2	182.7
87.5°	56.3	66.6	92.2	90.5	52.9	51.2	34.1	18.8	15.4	13.7	11.9
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)