

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: P643775

Luminaire Tested: GWS-SA6F-750-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643775  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-750-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

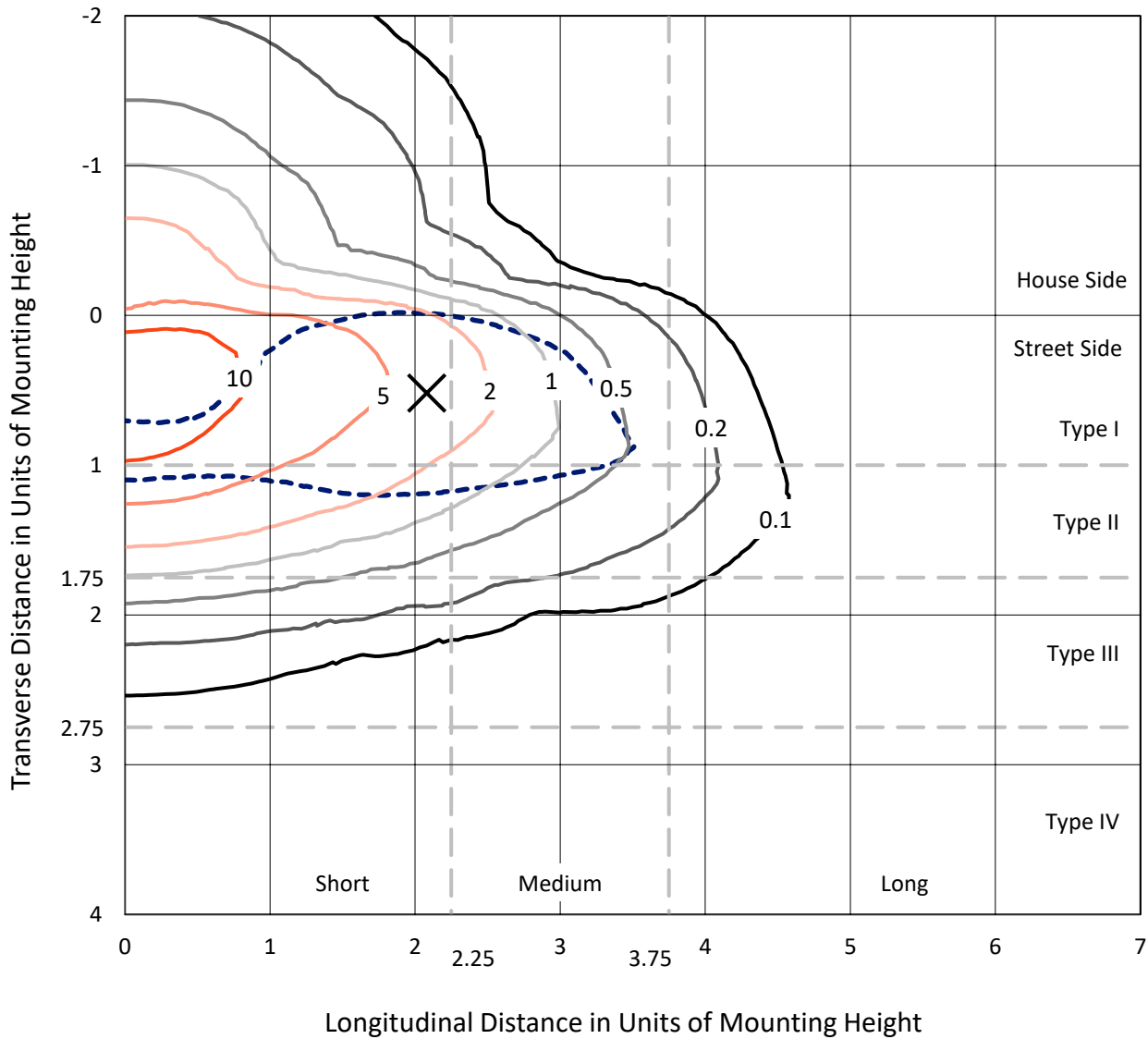
Lumens per Lamp: N/A  
Luminaire Lumens: 51912.4 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

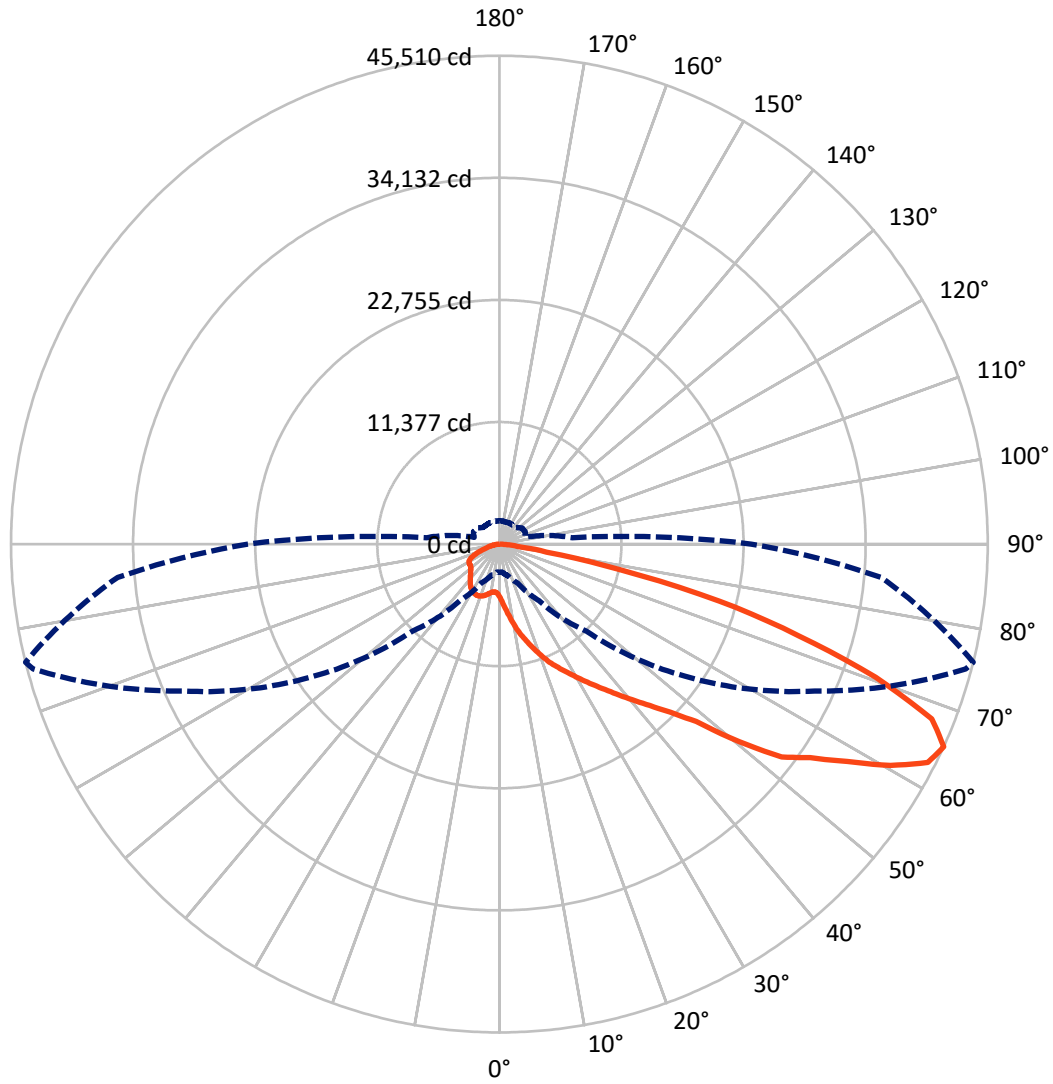
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8677.2	0.0	8677.2
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	43235.2	0.0	43235.2
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	51912.4	0.0	51912.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	584.0	1.1
10°-20°	2224.5	4.3
20°-30°	4335.3	8.4
30°-40°	7250.5	14.0
40°-50°	10381.4	20.0
50°-60°	12290.1	23.7
60°-70°	10219.3	19.7
70°-80°	4182.0	8.1
80°-90°	445.2	0.9
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°	51912.4	100.0
0°-180°	51912.4	100.0

**Coefficient of Utilization**



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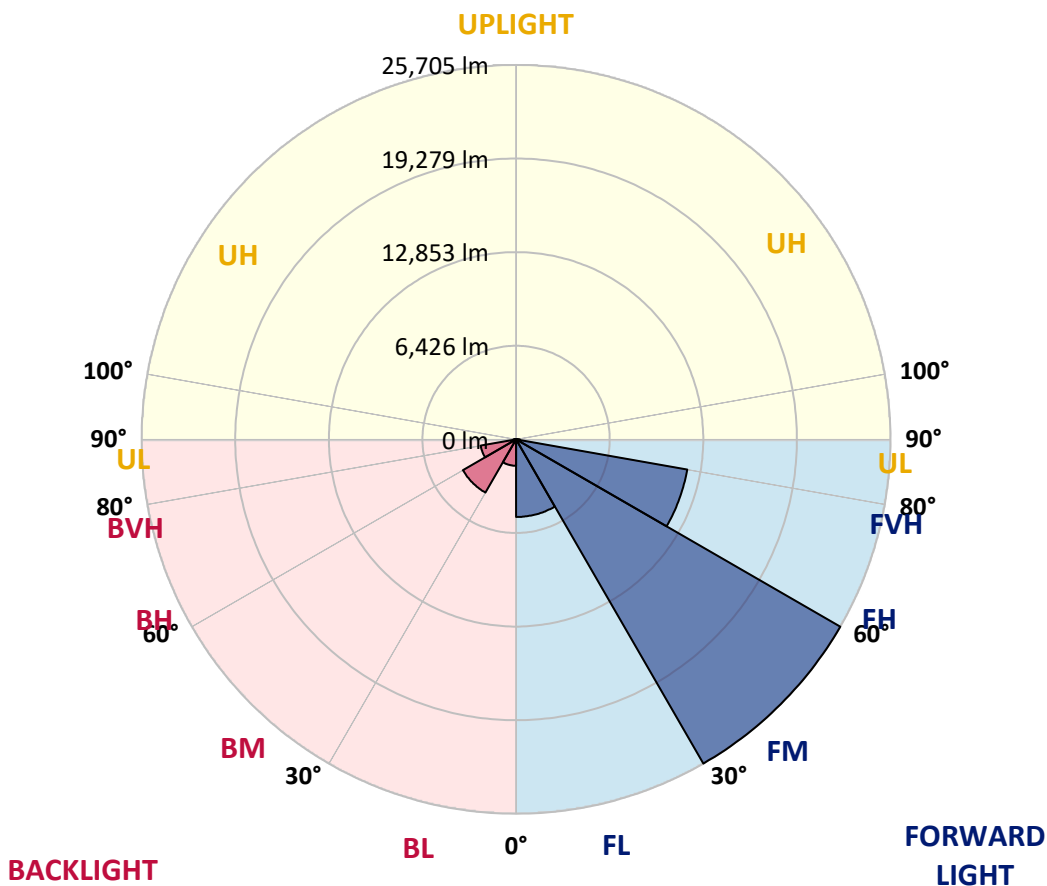
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5328.6	10.3			
FM (30°-60°)	25705.1	49.5			
FH (60°-80°)	11936.0	23.0			G4/12000
FVH (80°-90°)	265.5	0.5			G3/500
BL (0°-30°)	1815.3	3.5	B3/2500		
BM (30°-60°)	4216.9	8.1	B3/5000		
BH (60°-80°)	2465.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	179.7	0.3			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4915.9	4915.9	4915.9	4915.9	4915.9	4915.9	4915.9	4915.9	4915.9	4915.9	4915.9
2.5°	6890.3	6915.9	6831.9	6802.7	6605.6	6339.2	6116.6	5780.9	5470.6	5423.2	5145.8
5°	8751.6	8642.1	8547.2	8485.1	8211.4	7908.5	7437.7	6806.4	6145.8	6065.5	5467.0
7.5°	9857.4	9839.1	9722.3	9685.8	9474.2	9171.3	8685.9	7901.2	6941.4	6810.0	5901.3
10°	10744.2	10733.3	10674.9	10707.7	10514.3	10218.7	9747.9	8937.7	7813.6	7682.3	6386.7
12.5°	11517.9	11536.2	11525.2	11645.6	11547.1	11317.2	10828.1	9937.7	8685.9	8543.5	6977.9
15°	12083.6	12098.2	12152.9	12415.7	12470.4	12423.0	11926.7	10919.4	9547.2	9342.8	7587.4
17.5°	12244.2	12273.4	12404.7	12828.1	13123.7	13320.8	12952.2	11919.4	10393.9	10171.2	8207.8
20°	12459.5	12492.3	12623.7	13065.3	13499.6	13948.5	13882.8	12933.9	11247.8	11065.4	8835.5
22.5°	13455.8	13430.3	13371.9	13583.5	13893.7	14452.1	14616.4	13908.3	12131.0	11955.8	9528.9
25°	15375.5	15328.0	14955.8	14762.3	14660.1	14999.6	15291.5	14795.2	12992.3	12729.5	10174.9
27.5°	17492.2	17466.6	16992.2	16532.4	15904.6	15758.7	15930.2	15568.9	13828.1	13561.6	10736.9
30°	19495.8	19419.1	18922.8	18346.2	17506.8	16879.1	16627.2	16328.0	14744.1	14466.7	11393.8
32.5°	21287.7	21189.2	20605.2	19966.6	19087.0	18346.2	17594.4	17134.5	15780.6	15459.4	12065.3
35°	22758.4	22659.9	22061.4	21382.6	20415.5	19868.0	18838.9	18010.4	16835.3	16510.5	12857.3
37.5°	23897.1	23805.9	23181.8	22513.9	21670.9	21236.6	20342.5	18995.8	18050.6	17711.2	13696.7
40°	24535.8	24470.1	23970.1	23440.9	22732.9	22357.0	21955.6	20240.3	19411.8	19072.4	14685.7
42.5°	24729.2	24685.4	24335.0	24061.3	23583.2	23298.6	23528.5	21703.7	20864.3	20568.7	15798.8
45°	24243.8	24243.8	24141.6	24280.3	24302.2	24298.5	25105.1	23357.0	22649.0	22324.2	17368.1
47.5°	23003.0	23083.3	23232.9	23915.3	24634.3	25236.5	26948.1	25561.3	24944.5	24678.1	19590.7
50°	20733.0	20951.9	21462.9	22794.9	24324.1	25856.9	28692.6	28820.3	29407.9	28937.1	22860.6
52.5°	17408.2	17375.4	18678.3	20576.0	22908.1	25882.4	29652.4	31696.1	33276.4	32951.6	25291.2
55°	13835.4	13780.6	14995.9	17612.6	20736.6	24904.4	30229.0	33013.6	35422.3	35130.3	27477.3
57.5°	10594.6	10525.2	11605.5	13966.7	17671.0	22827.8	30119.5	34582.9	38374.8	38225.1	30448.0
60°	7291.8	7207.8	8218.7	10284.4	14043.4	19652.7	28907.9	35389.5	41830.9	41882.0	33626.7
62.5°	4379.4	4332.0	5065.5	6667.7	10101.9	15718.5	26072.2	34900.4	44582.6	44812.5	35670.5
65°	2642.3	2609.4	3040.1	3978.0	6408.6	11470.5	21700.1	32400.5	44980.4	45509.6	35717.9
67.5°	1923.3	1927.0	2051.0	2423.3	3737.1	7408.5	16284.2	27918.9	42907.5	43454.9	33466.2
70°	1671.5	1678.8	1744.5	1828.4	2259.1	4240.7	10587.3	22039.5	36779.9	37203.3	28068.5
72.5°	1485.4	1485.4	1529.2	1572.9	1766.4	2583.9	5671.4	15404.7	29028.3	29141.5	21422.7
75°	1306.5	1295.6	1317.5	1339.4	1532.8	1806.5	2759.0	10733.3	21441.0	21178.2	13846.3
77.5°	1040.1	1029.2	1032.8	1054.7	1229.9	1291.9	1397.8	6704.2	12083.6	11404.8	6116.6
80°	740.9	733.6	773.7	828.4	908.7	791.9	875.9	3244.4	4791.8	4459.7	2372.2
82.5°	441.6	456.2	518.2	562.0	627.7	496.3	565.7	1083.9	1697.0	1653.2	963.5
85°	62.0	65.7	186.1	215.3	270.1	193.4	299.3	489.0	678.8	726.3	339.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	25.5	87.6	193.4	197.1	83.9
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°	4915.9	4915.9	4915.9	4915.9	4915.9	4915.9	4915.9	4915.9	4915.9	4915.9	4915.9
2.5°	5003.5	4832.0	4587.5	4383.1	4211.6	4072.9	3956.1	3868.5	3843.0	3806.5	3806.5
5°	5186.0	4875.8	4437.8	4127.6	3948.8	3843.0	3770.0	3733.5	3715.2	3693.3	3682.4
7.5°	5437.8	5003.5	4412.3	4098.4	3959.7	3894.0	3846.6	3824.7	3810.1	3788.2	3788.2
10°	5784.5	5193.3	4492.6	4200.6	4091.1	4025.4	3970.7	3934.2	3901.3	3868.5	3861.2
12.5°	6160.4	5441.4	4638.5	4339.3	4222.5	4142.2	4065.6	4010.8	3970.7	3930.5	3919.6
15°	6576.4	5696.9	4795.5	4474.3	4328.3	4218.9	4127.6	4043.7	3988.9	3930.5	3923.2
17.5°	6985.2	5956.0	4926.9	4565.6	4379.4	4244.4	4113.0	4003.5	3934.2	3868.5	3850.3
20°	7474.2	6215.1	5018.1	4591.1	4368.5	4189.7	4032.7	3894.0	3817.4	3740.8	3729.8
22.5°	7923.1	6456.0	5061.9	4554.6	4284.5	4072.9	3890.4	3740.8	3656.8	3580.2	3565.6
25°	8357.4	6667.7	5043.6	4467.0	4156.8	3912.3	3722.5	3572.9	3492.6	3412.3	3390.4
27.5°	8777.1	6810.0	4970.7	4332.0	3996.2	3733.5	3551.0	3416.0	3346.6	3277.3	3248.1
30°	9189.5	6941.4	4857.5	4156.8	3791.9	3547.3	3397.7	3302.8	3233.5	3160.5	3138.6
32.5°	9605.6	7036.3	4686.0	3952.4	3583.8	3383.1	3291.9	3222.5	3149.5	3076.6	3054.7
35°	10025.2	7076.4	4478.0	3718.9	3408.7	3277.3	3244.4	3164.1	3065.6	2978.0	2948.8
37.5°	10525.2	7112.9	4218.9	3488.9	3255.4	3226.2	3218.9	3098.4	2981.7	2861.2	2828.4
40°	11127.4	7160.4	3952.4	3280.9	3131.3	3207.9	3178.7	3014.5	2780.9	2664.2	2627.7
42.5°	11864.6	7248.0	3675.1	3091.1	3040.1	3138.6	3105.7	2810.1	2653.2	2587.5	2569.3
45°	12948.5	7569.1	3397.7	2941.5	2970.7	3040.1	2989.0	2689.7	2627.7	2583.9	2562.0
47.5°	14879.1	8061.8	3156.8	2828.4	2916.0	2952.5	2755.4	2656.9	2609.4	2551.0	2525.5
50°	16886.4	8277.1	2963.4	2759.0	2853.9	2872.2	2627.7	2613.1	2580.2	2518.2	2492.6
52.5°	18244.0	8247.9	2846.6	2733.5	2802.8	2733.5	2569.3	2565.6	2543.7	2470.7	2441.5
55°	19776.8	8299.0	2795.5	2740.8	2780.9	2499.9	2496.3	2507.2	2496.3	2416.0	2401.4
57.5°	21846.1	8456.0	2770.0	2766.3	2766.3	2386.8	2426.9	2441.5	2419.6	2383.1	2372.2
60°	23835.1	8466.9	2722.5	2795.5	2755.4	2317.4	2346.6	2361.2	2335.7	2328.4	2324.7
62.5°	24583.2	7941.4	2616.7	2773.6	2711.6	2240.8	2262.7	2270.0	2244.5	2262.7	2259.1
65°	23470.1	6824.6	2441.5	2667.8	2576.6	2171.5	2156.9	2175.1	2131.3	2178.8	2182.4
67.5°	20838.8	5423.2	2175.1	2467.1	2386.8	2094.8	2065.6	2065.6	1992.6	2065.6	2062.0
70°	16802.4	3832.0	1784.6	2145.9	2178.8	2003.6	1989.0	1905.1	1788.3	1897.8	1886.8
72.5°	12736.8	2751.7	1405.1	1697.0	1875.9	1875.9	1879.5	1737.2	1602.1	1653.2	1609.4
75°	8069.1	1937.9	1124.1	1299.2	1470.8	1645.9	1729.9	1467.1	1346.7	1324.8	1302.9
77.5°	3634.9	1273.7	875.9	996.3	1043.8	1299.2	1580.2	1262.7	1098.5	1051.1	1036.5
80°	1521.9	791.9	624.1	704.4	642.3	1091.2	1394.1	981.7	806.5	740.9	693.4
82.5°	667.9	470.8	397.8	379.6	401.4	810.2	1040.1	653.3	503.6	682.5	689.8
85°	281.0	248.2	204.4	186.1	164.2	310.2	489.0	255.5	313.9	178.8	146.0
87.5°	65.7	73.0	54.7	36.5	21.9	3.6	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)