

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: P643915

Luminaire Tested: GWS-SA6F-830-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643915  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-830-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

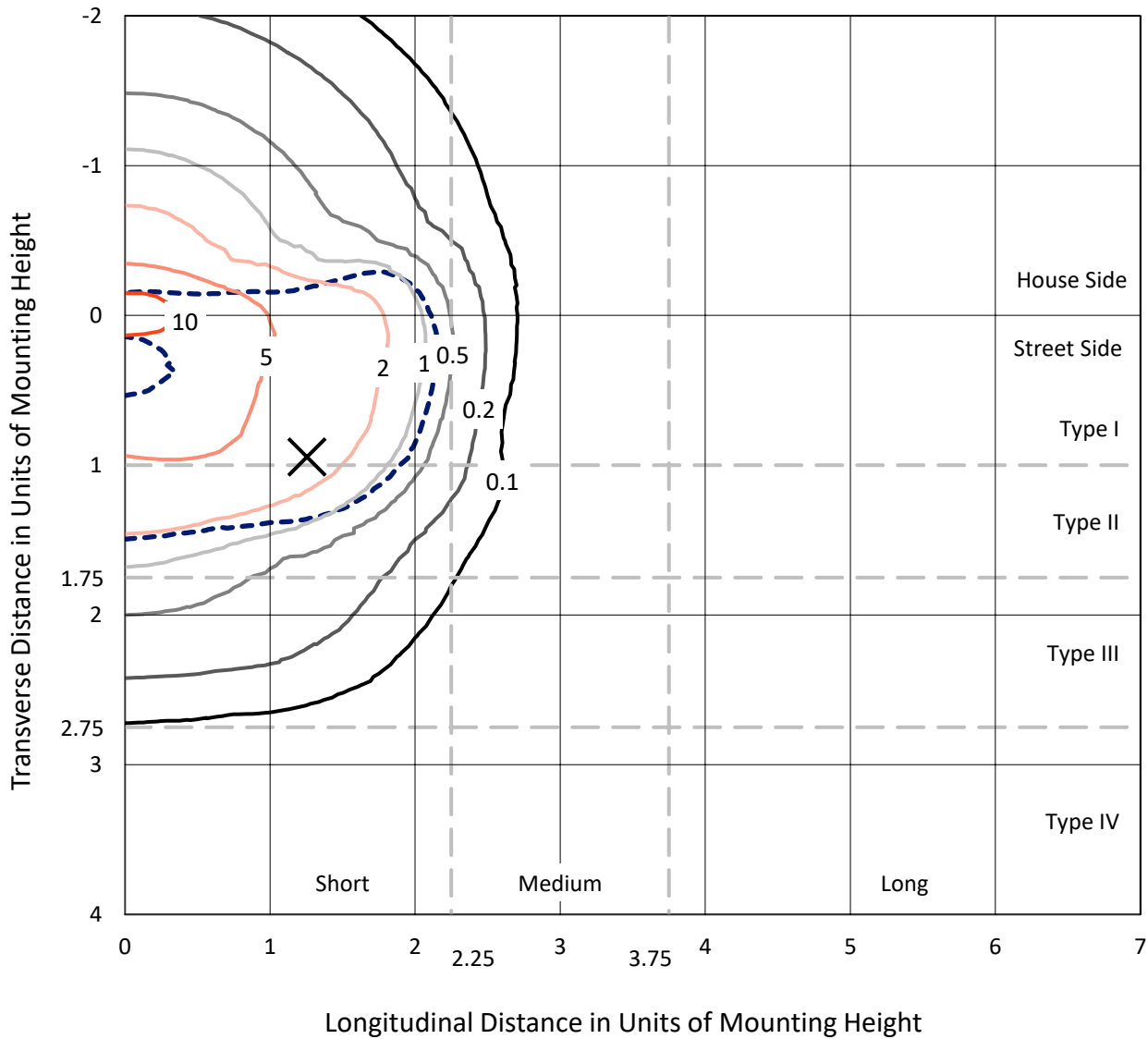
Lumens per Lamp: N/A  
Luminaire Lumens: 33674 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

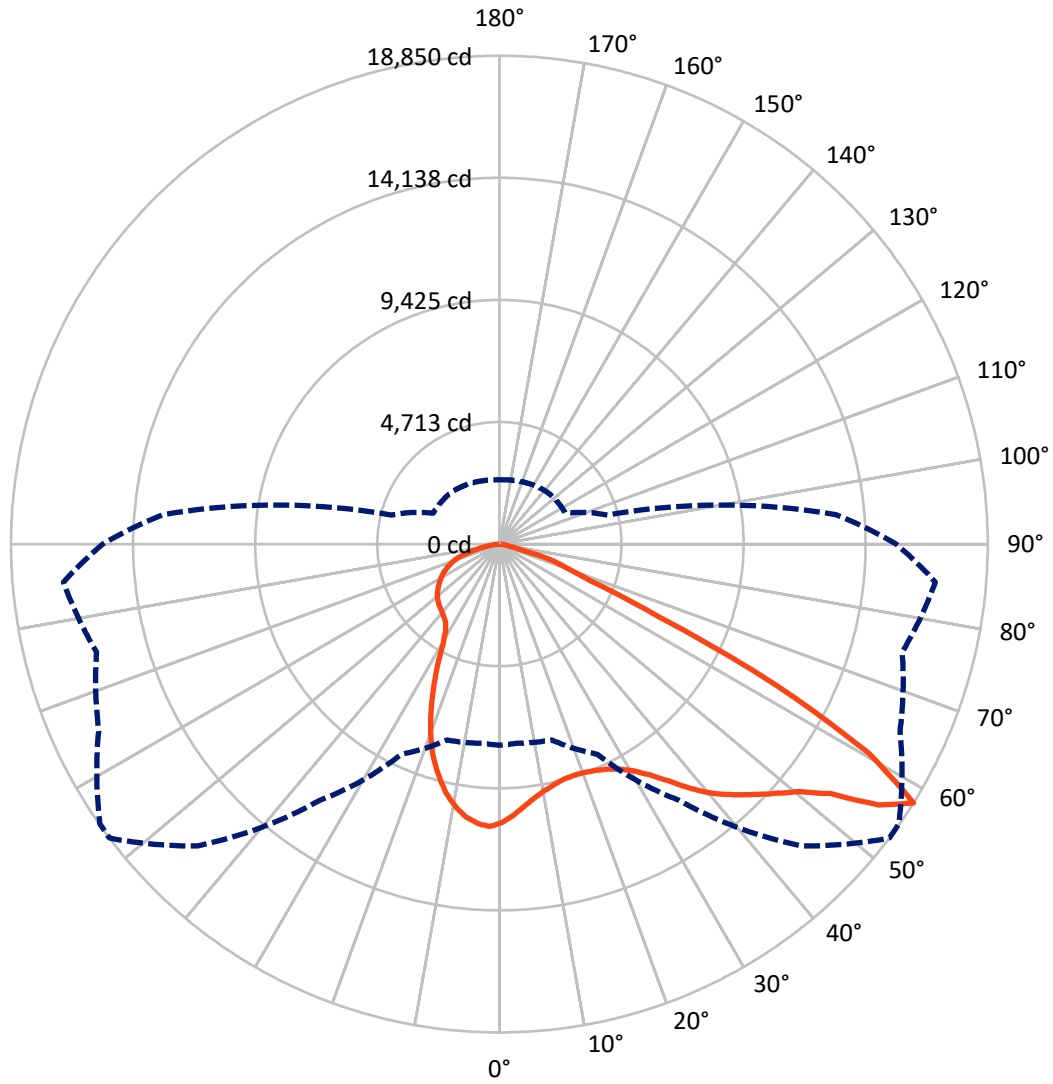
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10528.6	0.0	10528.6
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	23145.4	0.0	23145.4
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	33674.0	0.0	33674.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	972.4	2.9
10°-20°	2551.1	7.6
20°-30°	3758.7	11.2
30°-40°	5261.2	15.6
40°-50°	6916.2	20.5
50°-60°	8109.3	24.1
60°-70°	4777.3	14.2
70°-80°	1188.4	3.5
80°-90°	139.4	0.4
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°	33674.0	100.0
0°-180°	33674.0	100.0

**Coefficient of Utilization**



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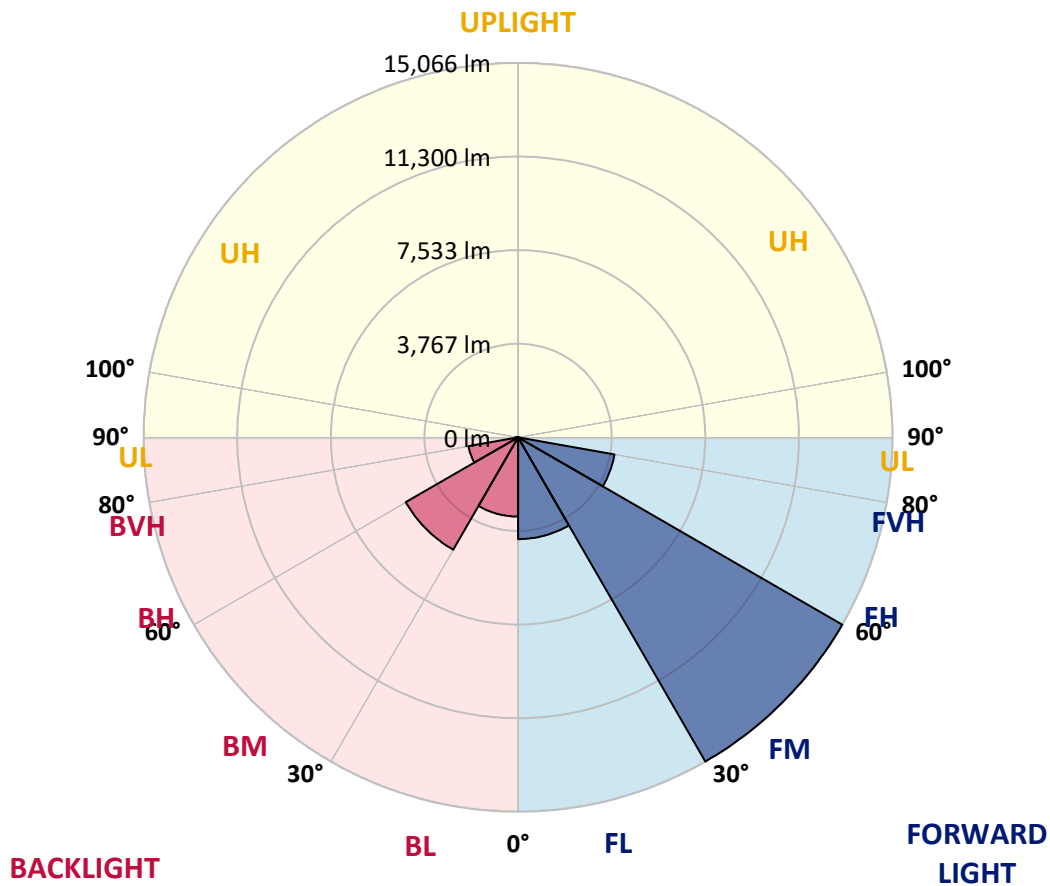
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4094.1	12.2			
FM (30°-60°)	15066.0	44.7			
FH (60°-80°)	3938.6	11.7			G2/5000
FVH (80°-90°)	46.7	0.1			G1/100
BL (0°-30°)	3188.1	9.5	B4/5000		
BM (30°-60°)	5220.6	15.5	B4/8500		
BH (60°-80°)	2027.1	6.0	B3/2500		G3/2500
BVH (80°-90°)	92.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10753.0	10753.0	10753.0	10753.0	10753.0	10753.0	10753.0	10753.0	10753.0	10753.0	10753.0
2.5°	10135.2	10163.5	10169.2	10257.0	10262.7	10390.2	10475.3	10458.3	10546.1	10653.8	10738.8
5°	9650.5	9653.3	9681.7	9786.6	9843.2	10010.5	10152.2	10152.2	10322.2	10543.3	10733.2
7.5°	9250.9	9248.0	9273.6	9389.8	9483.3	9684.5	9877.2	9899.9	10138.0	10461.1	10770.0
10°	8879.6	8899.4	8927.8	9069.5	9188.5	9437.9	9667.5	9704.4	10004.8	10404.4	10821.0
12.5°	8641.5	8644.4	8686.9	8845.6	8998.6	9265.1	9506.0	9551.3	9897.1	10350.6	10857.9
15°	8488.5	8491.3	8536.7	8712.4	8890.9	9160.2	9406.8	9457.8	9834.7	10342.1	10928.7
17.5°	8420.5	8417.6	8460.1	8635.9	8831.4	9112.0	9375.6	9437.9	9863.1	10407.2	11053.4
20°	8420.5	8423.3	8446.0	8604.7	8803.1	9100.7	9406.8	9483.3	9973.6	10554.6	11246.2
22.5°	8539.5	8550.8	8562.2	8669.9	8825.8	9117.7	9489.0	9591.0	10211.7	10801.2	11498.4
25°	8771.9	8774.7	8786.1	8873.9	8944.8	9165.9	9625.0	9778.0	10583.0	11161.1	11815.8
27.5°	9083.7	9123.3	9134.7	9191.4	9191.4	9284.9	9837.6	10058.6	11084.6	11679.8	12221.1
30°	9520.1	9534.3	9554.1	9616.5	9548.5	9508.8	10149.3	10432.8	11665.6	12306.2	12708.6
32.5°	9902.8	9933.9	10041.6	10143.7	10021.8	9897.1	10608.5	10942.9	12224.0	12958.0	13227.3
35°	10228.7	10305.2	10512.1	10738.8	10653.8	10529.1	11217.8	11566.4	12683.1	13425.7	13686.4
37.5°	10622.6	10682.2	10965.6	11334.0	11410.6	11351.0	11960.4	12209.8	12989.2	13544.7	13935.8
40°	11022.3	11113.0	11478.6	11988.7	12280.7	12323.2	12646.3	12813.5	13094.1	13312.3	13887.7
42.5°	11430.4	11586.3	12087.9	12683.1	13201.8	13298.1	13224.5	13295.3	13060.1	12992.0	13663.8
45°	11929.2	12113.4	12680.3	13439.9	14122.9	14273.1	13791.3	13726.1	13054.4	12870.2	13524.9
47.5°	12518.7	12703.0	13244.3	14128.6	15001.5	15112.0	14372.3	14253.3	13252.8	13057.2	13711.9
50°	13040.2	13167.8	13652.4	14641.6	15820.6	15885.8	15012.8	14868.3	13746.0	13575.9	14295.8
52.5°	12510.2	12496.1	13006.2	14224.9	16245.7	17030.8	15999.2	15860.3	14698.2	14437.5	15199.9
55°	10614.1	10452.6	10908.9	12107.8	15058.2	18048.3	17767.7	17490.0	15968.0	15304.8	16047.3
57.5°	7760.1	7714.7	7825.3	8950.5	12062.4	16472.5	18850.4	18824.9	17064.8	16098.4	16891.9
60°	6068.1	6000.0	5705.3	5736.5	8222.1	12867.3	16359.1	17110.2	17745.0	16574.5	17481.4
62.5°	5387.8	5336.8	5183.8	4761.5	4897.5	8627.4	11991.6	12680.3	15506.0	14638.7	15015.7
65°	4461.1	4446.9	4574.4	4557.4	4103.9	4764.3	6768.1	7462.5	9749.7	9871.6	9749.7
67.5°	3242.3	3216.8	3539.9	4177.6	3950.9	3596.6	3772.3	4013.3	4999.6	4489.4	4041.6
70°	2108.7	2071.8	2258.9	3018.4	3537.1	3134.6	2718.0	2678.3	2749.2	1709.0	1847.9
72.5°	1414.3	1371.8	1368.9	1660.9	2137.0	2111.5	2105.8	2086.0	1862.1	1349.1	1496.5
75°	787.9	753.9	745.4	717.1	765.2	779.4	830.4	858.8	929.6	1023.2	1133.7
77.5°	133.2	130.4	164.4	209.7	289.1	371.3	459.1	484.7	598.0	708.6	779.4
80°	73.7	76.5	99.2	121.9	161.6	221.1	283.4	300.4	368.4	428.0	484.7
82.5°	39.7	39.7	51.0	65.2	87.9	116.2	153.0	167.2	212.6	249.4	289.1
85°	14.2	14.2	19.8	25.5	36.8	48.2	59.5	68.0	93.5	127.5	144.5
87.5°	0.0	0.0	0.0	0.0	2.8	5.7	11.3	11.3	14.2	25.5	36.8
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°	10753.0	10753.0	10753.0	10753.0	10753.0	10753.0	10753.0	10753.0	10753.0	10753.0	10753.0
2.5°	10809.7	10733.2	10838.0	10886.2	10903.2	10914.6	10840.9	10789.9	10772.9	10719.0	10687.8
5°	10849.4	10798.4	10897.6	10897.6	10826.7	10753.0	10602.8	10497.9	10424.2	10336.4	10322.2
7.5°	10917.4	10880.6	10934.4	10823.9	10645.3	10446.9	10186.2	9982.1	9817.7	9710.0	9712.9
10°	11008.1	10962.8	10920.2	10673.7	10347.7	9982.1	9582.5	9284.9	9012.8	8888.1	8820.1
12.5°	11067.6	11002.4	10823.9	10415.7	9936.8	9446.4	8882.4	8440.3	8046.3	7867.8	7853.6
15°	11141.3	11022.3	10665.2	10081.3	9415.3	8746.4	8020.8	7405.8	6873.0	6595.2	6581.1
17.5°	11237.7	11042.1	10475.3	9698.7	8865.4	7879.1	6966.5	6192.8	5625.9	5410.5	5447.4
20°	11373.7	11064.8	10259.9	9273.6	8182.4	6892.8	5756.3	5044.9	4826.7	4812.5	4784.2
22.5°	11526.8	11079.0	10021.8	8797.4	7354.8	5841.3	4755.8	4452.6	4449.7	4520.6	4537.6
25°	11699.6	11090.3	9752.5	8241.9	6459.2	4792.7	4206.0	4115.3	4186.1	4319.3	4336.4
27.5°	11920.7	11113.0	9426.6	7632.5	5506.9	4140.8	3902.7	3880.0	3965.1	4089.8	4084.1
30°	12246.7	11195.2	9080.8	6932.5	4529.1	3831.9	3718.5	3721.3	3755.3	3814.9	3823.4
32.5°	12578.3	11322.7	8743.6	6144.6	3967.9	3656.1	3605.1	3599.5	3599.5	3625.0	3630.6
35°	12892.9	11467.2	8377.9	5322.7	3695.8	3554.1	3520.1	3503.1	3494.6	3488.9	3480.4
37.5°	13068.6	11538.1	8020.8	4512.1	3551.3	3486.1	3452.1	3429.4	3398.2	3375.6	3369.9
40°	12992.0	11455.9	7607.0	3905.6	3463.4	3420.9	3381.2	3350.0	3307.5	3287.7	3276.4
42.5°	12737.0	11200.8	7156.4	3619.3	3392.6	3350.0	3301.9	3250.8	3222.5	3205.5	3202.7
45°	12467.7	10891.9	6612.2	3452.1	3324.5	3273.5	3216.8	3160.2	3129.0	3120.5	3117.6
47.5°	12459.2	10738.8	6034.0	3318.9	3242.3	3191.3	3120.5	3063.8	3029.8	3018.4	3007.1
50°	12833.3	10894.7	5382.2	3202.7	3157.3	3103.5	3024.1	2961.8	2919.2	2905.1	2902.2
52.5°	13609.9	11481.4	4798.3	3086.5	3043.9	2981.6	2916.4	2854.1	2803.0	2777.5	2774.7
55°	14448.8	12226.8	4435.5	2967.4	2910.7	2856.9	2797.4	2729.4	2672.7	2633.0	2627.3
57.5°	15316.1	13040.2	4325.0	2817.2	2774.7	2737.9	2667.0	2593.3	2528.1	2491.3	2482.8
60°	16030.3	13740.3	4531.9	2658.5	2635.8	2587.6	2522.5	2451.6	2406.2	2377.9	2372.2
62.5°	13420.0	11186.7	3659.0	2485.6	2485.6	2434.6	2360.9	2309.9	2278.7	2258.9	2253.2
65°	8516.8	6926.8	2496.9	2312.7	2309.9	2241.9	2179.5	2145.5	2131.3	2100.2	2094.5
67.5°	3710.0	3165.8	2134.2	2137.0	2125.7	2052.0	1989.6	1964.1	1935.8	1901.8	1898.9
70°	1924.4	1961.3	1910.3	1941.4	1921.6	1833.7	1774.2	1734.5	1675.0	1641.0	1643.8
72.5°	1553.2	1592.8	1649.5	1697.7	1655.2	1584.3	1490.8	1442.6	1366.1	1329.2	1332.1
75°	1184.7	1227.2	1281.1	1332.1	1298.1	1210.2	1150.7	1102.5	1014.6	972.1	980.6
77.5°	816.3	838.9	904.1	901.3	889.9	864.4	776.6	719.9	629.2	578.2	583.8
80°	507.3	521.5	552.7	566.8	561.2	527.2	456.3	413.8	359.9	328.8	331.6
82.5°	306.1	314.6	342.9	345.8	342.9	317.4	263.6	232.4	198.4	181.4	181.4
85°	155.9	161.6	178.6	178.6	161.6	136.0	121.9	107.7	87.9	79.4	79.4
87.5°	42.5	42.5	53.9	45.3	36.8	34.0	17.0	14.2	5.7	2.8	2.8
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)