

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: P643948

Luminaire Tested: GWS-SA6F-830-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643948  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-830-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

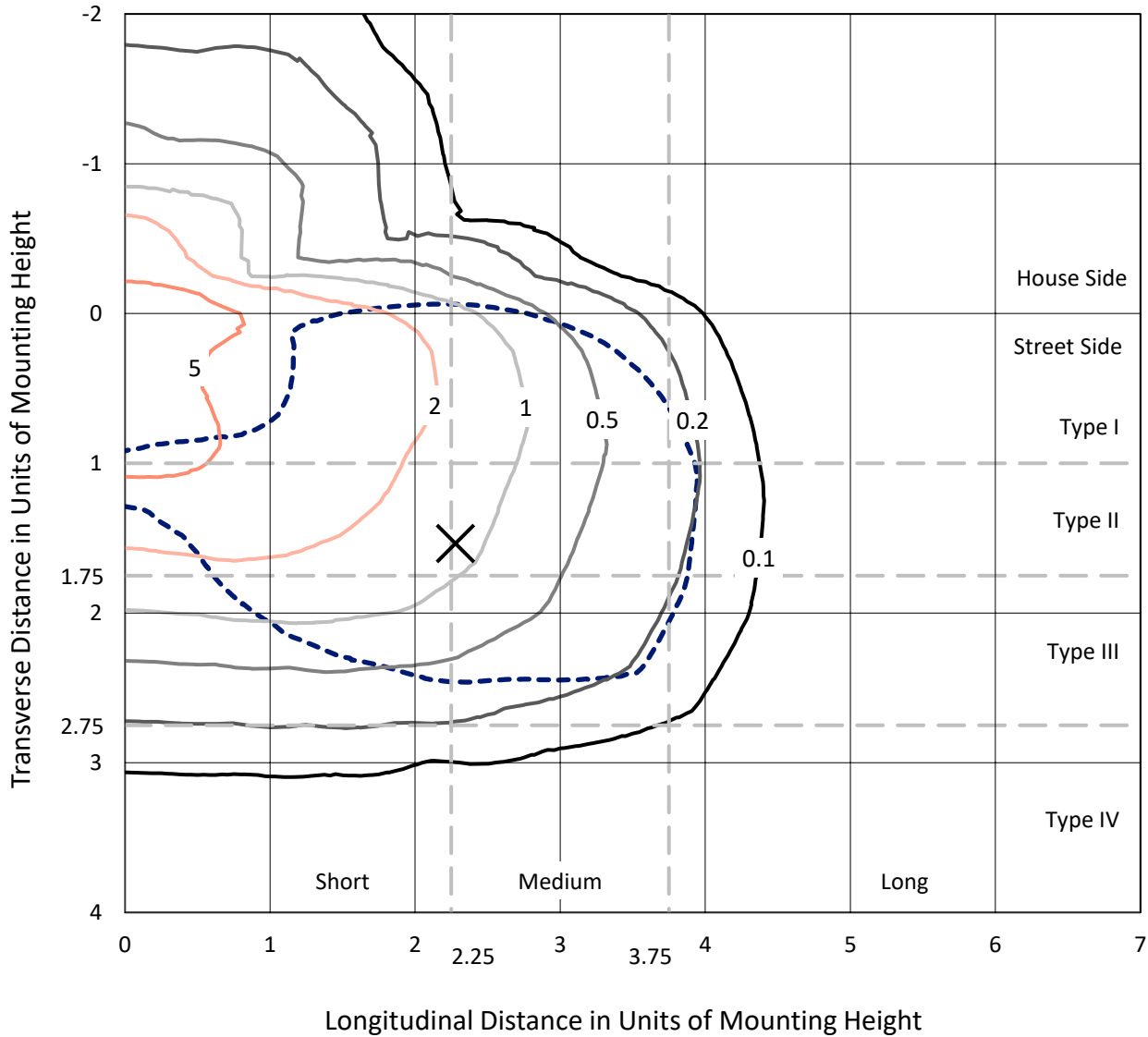
Lumens per Lamp: N/A  
Luminaire Lumens: 40192.9 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): 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

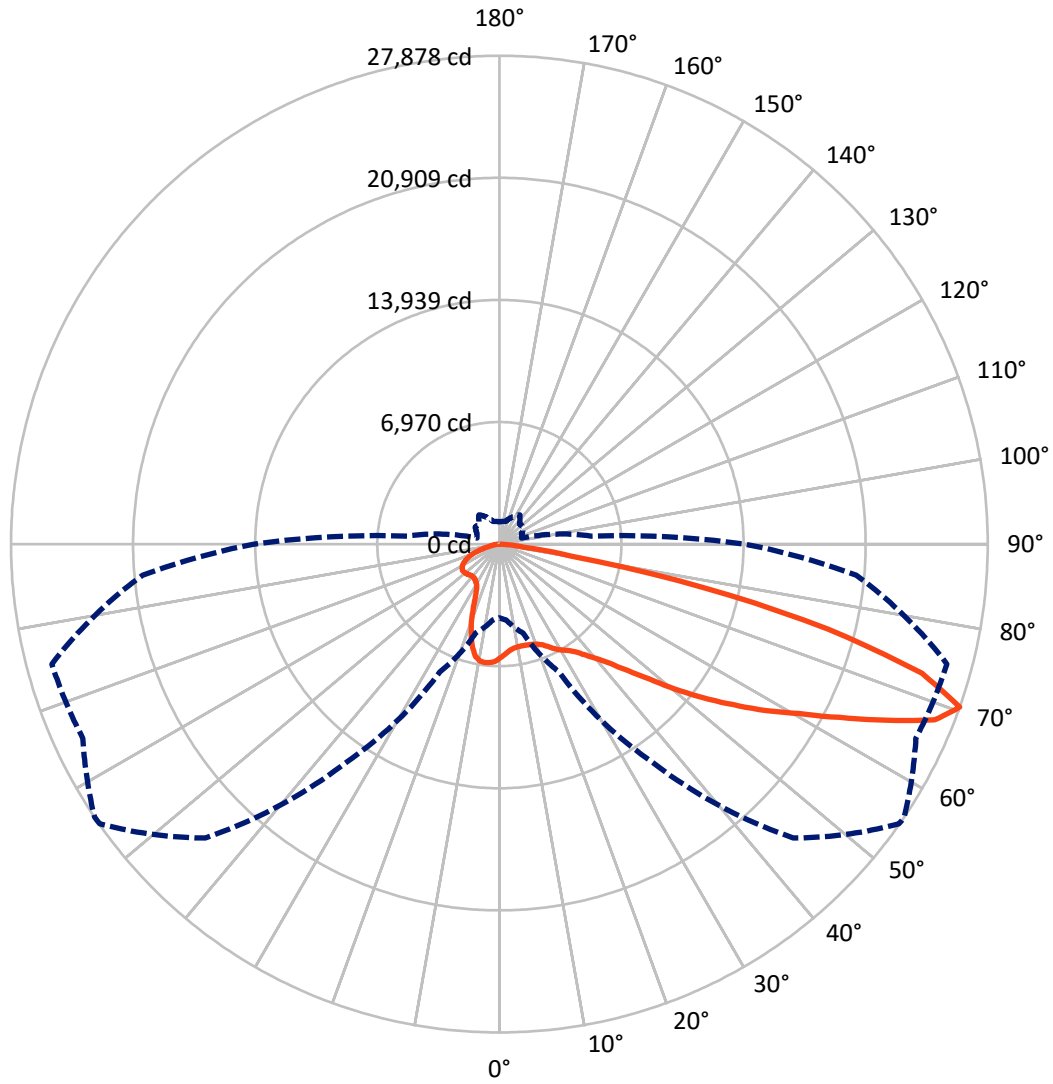
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7727.2	0.0	7727.2
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	32465.8	0.0	32465.8
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	40192.9	0.0	40192.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.4	1.5
10°-20°	1626.7	4.0
20°-30°	2689.4	6.7
30°-40°	4021.0	10.0
40°-50°	5983.8	14.9
50°-60°	8507.3	21.2
60°-70°	10536.5	26.2
70°-80°	5817.9	14.5
80°-90°	409.7	1.0
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°	40192.9	100.0
0°-180°	40192.9	100.0

**Coefficient of Utilization**



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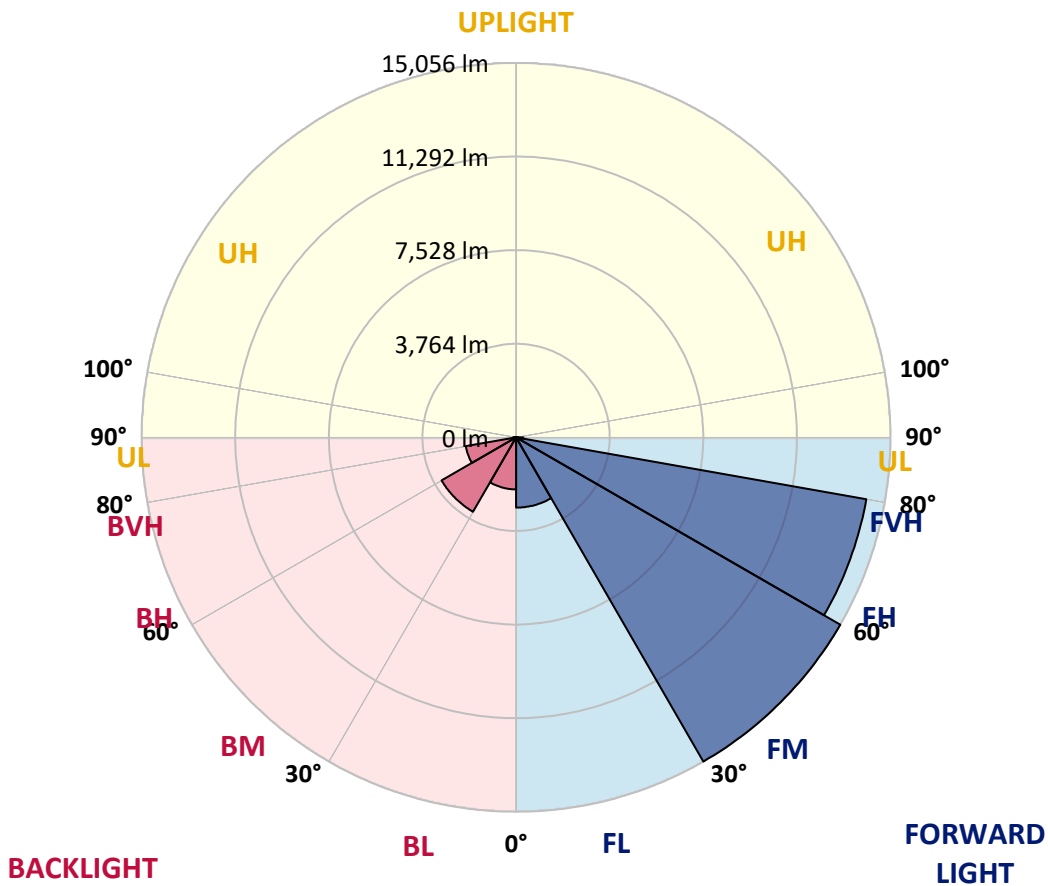
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2824.7	7.0			
FM (30°-60°)	15055.7	37.5			
FH (60°-80°)	14300.7	35.6			G5
FVH (80°-90°)	284.7	0.7			G3/500
BL (0°-30°)	2091.8	5.2	B3/2500		
BM (30°-60°)	3456.5	8.6	B3/5000		
BH (60°-80°)	2053.8	5.1	B3/2500		G3/2500
BVH (80°-90°)	125.0	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-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8
2.5°	6071.1	6037.1	6076.8	6096.6	6147.6	6221.3	6286.5	6289.4	6323.4	6405.6	6484.9
5°	5796.2	5779.2	5790.5	5850.0	5903.9	5997.4	6096.6	6105.1	6201.5	6363.0	6521.8
7.5°	5583.6	5560.9	5603.4	5680.0	5748.0	5852.9	5983.2	5994.6	6130.6	6374.4	6618.1
10°	5277.5	5260.5	5339.9	5441.9	5589.3	5762.2	5935.1	5949.2	6127.8	6448.1	6788.2
12.5°	5144.3	5144.3	5178.3	5274.7	5436.2	5665.8	5926.6	5949.2	6173.1	6561.4	7006.4
15°	5351.2	5365.4	5337.0	5331.4	5396.5	5614.8	5937.9	5971.9	6258.2	6677.7	7221.8
17.5°	5767.8	5782.0	5708.3	5592.1	5526.9	5663.0	5980.4	6017.3	6348.9	6805.2	7454.3
20°	6351.7	6368.7	6207.2	6028.6	5804.7	5801.8	6062.6	6096.6	6465.1	6944.1	7700.8
22.5°	7034.8	7046.1	6842.0	6558.6	6215.7	6059.8	6204.3	6238.3	6615.3	7136.8	7967.3
25°	7825.6	7859.6	7613.0	7202.0	6737.2	6414.1	6439.6	6479.2	6884.6	7394.7	8281.9
27.5°	8670.2	8712.7	8429.3	7975.8	7335.2	6805.2	6742.8	6776.9	7170.8	7553.5	8449.1
30°	9534.6	9565.8	9282.4	8763.7	7978.6	7247.3	6997.9	7017.8	7295.5	7630.0	8619.2
32.5°	10495.5	10470.0	10197.9	9599.8	8721.2	7777.4	7236.0	7230.3	7434.4	7783.0	8862.9
35°	11396.8	11433.6	11144.5	10484.1	9537.5	8432.1	7593.1	7570.5	7729.2	8032.5	9205.9
37.5°	12488.0	12476.7	12130.9	11416.6	10356.6	9058.5	8094.8	8055.1	8111.8	8420.8	9684.9
40°	13267.4	13346.8	13122.9	12456.8	11314.6	9829.4	8681.5	8593.7	8607.8	8899.8	10325.4
42.5°	13905.2	13978.9	14001.5	13576.4	12411.5	10781.7	9412.8	9324.9	9333.4	9747.2	11113.4
45°	14395.5	14494.7	14815.0	14690.3	13647.2	11881.5	10401.9	10311.2	10316.9	10776.1	12065.7
47.5°	14596.7	14704.4	15353.5	15651.1	14959.5	13196.6	11632.0	11498.8	11518.7	12026.0	13154.1
50°	14531.5	14676.1	15554.7	16390.9	16059.2	14534.4	13103.0	13009.5	12933.0	13669.9	14336.0
52.5°	13970.3	14129.1	15534.9	16861.4	16957.7	15798.5	14622.2	14568.4	14551.4	15415.9	15656.8
55°	12317.9	12584.4	14851.8	16986.1	17660.6	16988.9	16269.0	16178.3	16266.1	17286.5	16991.7
57.5°	11402.5	11600.9	13514.0	16847.2	18236.0	18122.6	17912.9	17921.4	18020.6	19318.7	18610.1
60°	10880.9	11113.4	12771.4	16467.4	18788.7	19500.1	19633.3	19633.3	19811.9	21509.6	20254.0
62.5°	10189.4	10424.6	12077.0	15736.1	19298.9	21121.3	21795.9	21787.4	21858.3	23859.3	21861.1
65°	8786.4	9004.6	10682.5	14582.6	19548.3	22907.0	24253.3	24227.7	24086.0	25951.0	22924.0
67.5°	6380.0	6587.0	8182.7	12388.8	18649.8	24346.8	26784.3	26795.6	25948.2	27269.0	22980.6
70°	4206.1	4347.8	5260.5	8046.6	15166.4	23726.1	27844.3	27878.3	26234.4	26447.0	20452.4
72.5°	2624.6	2723.8	3285.0	4798.5	8962.1	18780.2	25123.4	25216.9	23601.4	23241.4	16804.7
75°	1743.1	1811.1	2185.3	2797.5	4146.6	10163.9	19097.6	19398.1	18916.2	18219.0	11708.6
77.5°	1048.7	1105.4	1391.6	1777.1	1836.6	3970.9	11147.4	11924.0	11992.0	9512.0	4903.4
80°	479.0	544.2	768.1	1014.7	977.8	1383.1	3931.2	4112.6	4852.4	3021.4	1547.5
82.5°	283.4	311.8	510.2	504.5	416.6	671.7	1414.3	1451.2	1232.9	1105.4	660.4
85°	113.4	133.2	215.4	189.9	153.1	218.2	532.9	558.4	535.7	481.8	243.8
87.5°	0.0	0.0	0.0	0.0	2.8	5.7	48.2	51.0	73.7	133.2	73.7
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°	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8
2.5°	6535.9	6518.9	6604.0	6669.1	6697.5	6725.8	6700.3	6691.8	6691.8	6635.1	6606.8
5°	6606.8	6615.3	6731.5	6785.4	6785.4	6762.7	6694.7	6646.5	6629.5	6555.8	6535.9
7.5°	6740.0	6776.9	6884.6	6881.7	6802.4	6677.7	6507.6	6377.2	6258.2	6207.2	6176.0
10°	6958.2	7006.4	7080.1	6961.1	6740.0	6411.2	6051.3	5767.8	5597.8	5461.7	5461.7
12.5°	7207.7	7253.0	7238.8	6963.9	6507.6	5892.5	5373.9	5047.9	4809.8	4685.1	4685.1
15°	7457.1	7493.9	7340.9	6833.5	6022.9	5203.8	4636.9	4245.8	4038.9	3922.7	3922.7
17.5°	7709.3	7706.5	7383.4	6533.1	5390.9	4441.4	3885.8	3582.6	3511.7	3491.9	3489.0
20°	7953.1	7887.9	7329.5	6031.4	4656.8	3673.3	3321.8	3341.7	3446.5	3491.9	3497.5
22.5°	8228.0	8066.5	7170.8	5390.9	3823.5	3140.4	3163.1	3327.5	3480.5	3548.6	3557.1
25°	8508.6	8219.5	6904.4	4639.8	3126.3	2944.9	3120.6	3304.8	3477.7	3565.6	3574.1
27.5°	8622.0	8219.5	6450.9	3769.6	2755.0	2862.7	3055.4	3234.0	3415.4	3517.4	3537.2
30°	8715.5	8148.7	5816.0	2984.5	2601.9	2783.3	2950.5	3114.9	3293.5	3418.2	3440.9
32.5°	8845.9	8086.3	5047.9	2508.4	2531.0	2706.8	2823.0	2961.9	3123.4	3205.6	3197.1
35°	8999.0	7989.9	4121.1	2281.6	2471.5	2641.6	2723.8	2806.0	2732.3	2729.4	2738.0
37.5°	9217.2	7904.9	3313.3	2179.6	2431.8	2596.2	2664.3	2488.5	2386.5	2344.0	2327.0
40°	9531.8	7870.9	2613.2	2120.1	2426.2	2593.4	2545.2	2273.1	2134.2	1986.9	1984.0
42.5°	9928.6	7845.4	2159.7	2091.7	2446.0	2658.6	2380.8	2131.4	1845.1	1780.0	1774.3
45°	10438.8	7805.7	1933.0	2086.1	2494.2	2709.6	2363.8	1935.8	1740.3	1711.9	1711.9
47.5°	11053.8	7743.4	1831.0	2086.1	2548.1	2686.9	2312.8	1893.3	1692.1	1723.3	1743.1
50°	11759.6	7664.0	1777.1	2080.4	2601.9	2686.9	2205.1	1884.8	1680.8	1842.3	1907.5
52.5°	12513.5	7573.3	1740.3	2057.7	2638.7	2689.8	2210.8	1913.2	1692.1	1870.6	1924.5
55°	13346.8	7559.1	1689.3	2009.5	2650.1	2616.1	2224.9	1975.5	1709.1	1694.9	1697.8
57.5°	14398.3	7729.2	1652.4	1938.7	2604.7	2465.9	2253.3	2020.9	1689.3	1692.1	1711.9
60°	15498.0	8049.5	1683.6	1870.6	2511.2	2324.1	2273.1	1998.2	1592.9	1547.5	1553.2
62.5°	16433.4	8293.2	1709.1	1839.5	2375.2	2199.4	2253.3	1947.2	1539.0	1527.7	1553.2
65°	16824.5	8092.0	1646.7	1774.3	2176.8	2046.4	2210.8	1882.0	1493.7	1451.2	1454.0
67.5°	16390.9	7148.1	1524.9	1629.7	1952.8	1850.8	2142.7	1797.0	1431.3	1380.3	1369.0
70°	14001.5	5252.0	1315.1	1400.2	1680.8	1621.2	2037.9	1686.4	1332.1	1295.3	1269.8
72.5°	11283.4	3718.6	1091.2	1113.9	1318.0	1366.1	1856.5	1547.5	1218.8	1113.9	1077.0
75°	7853.9	2335.5	909.8	887.1	952.3	1043.0	1448.3	1283.9	1051.5	941.0	907.0
77.5°	3378.5	1198.9	711.4	700.1	634.9	722.8	1111.1	1071.4	881.5	753.9	734.1
80°	1130.9	694.4	513.0	493.2	422.3	507.3	782.3	856.0	691.6	558.4	524.3
82.5°	566.9	402.5	325.9	294.8	283.4	320.3	462.0	532.9	479.0	385.5	325.9
85°	277.8	229.6	178.6	175.7	147.4	138.9	192.7	226.7	215.4	158.7	150.2
87.5°	102.0	90.7	56.7	45.3	28.3	19.8	11.3	11.3	8.5	8.5	8.5
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)