

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: P643447

Luminaire Tested: GWS-SA6E-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643447  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-830-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

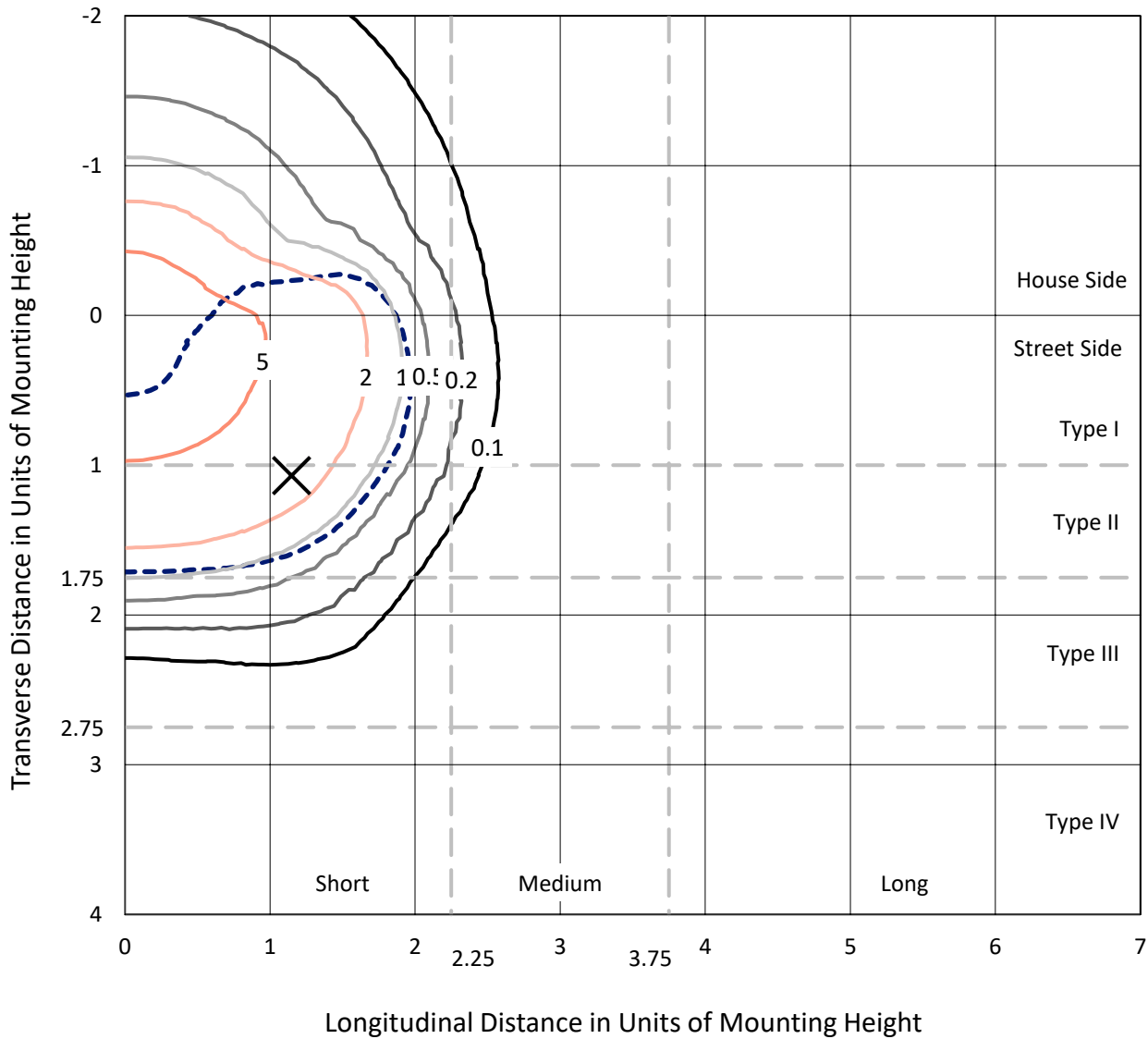
Lumens per Lamp: N/A  
Luminaire Lumens: 30351.1 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P643447  
 CATALOG NUMBER: GWS-SA6E-830-U-T3-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

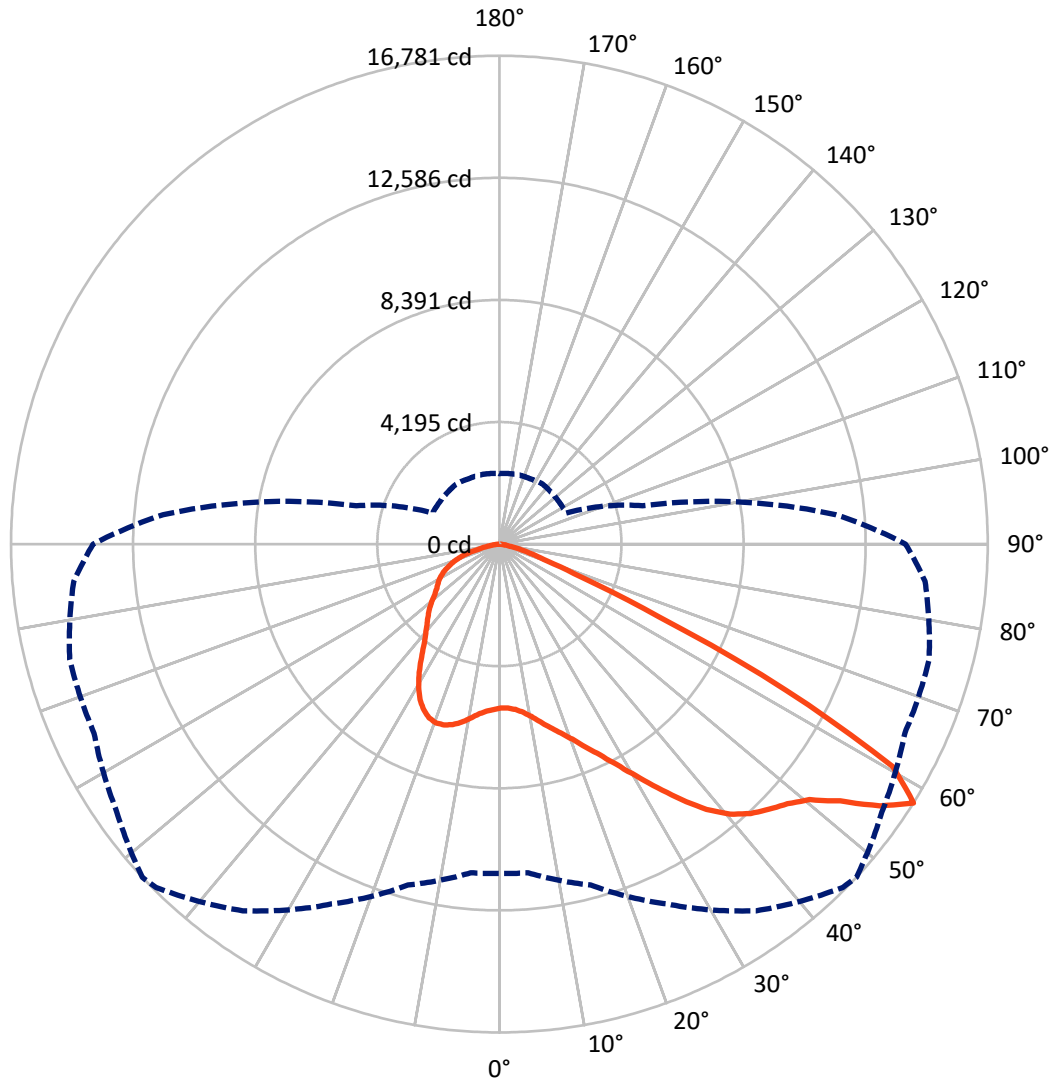
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - N/A

REPORT NUMBER: P643447  
CATALOG NUMBER: GWS-SA6E-830-U-T3-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P643447

CATALOG NUMBER: GWS-SA6E-830-U-T3-W-GRSWH

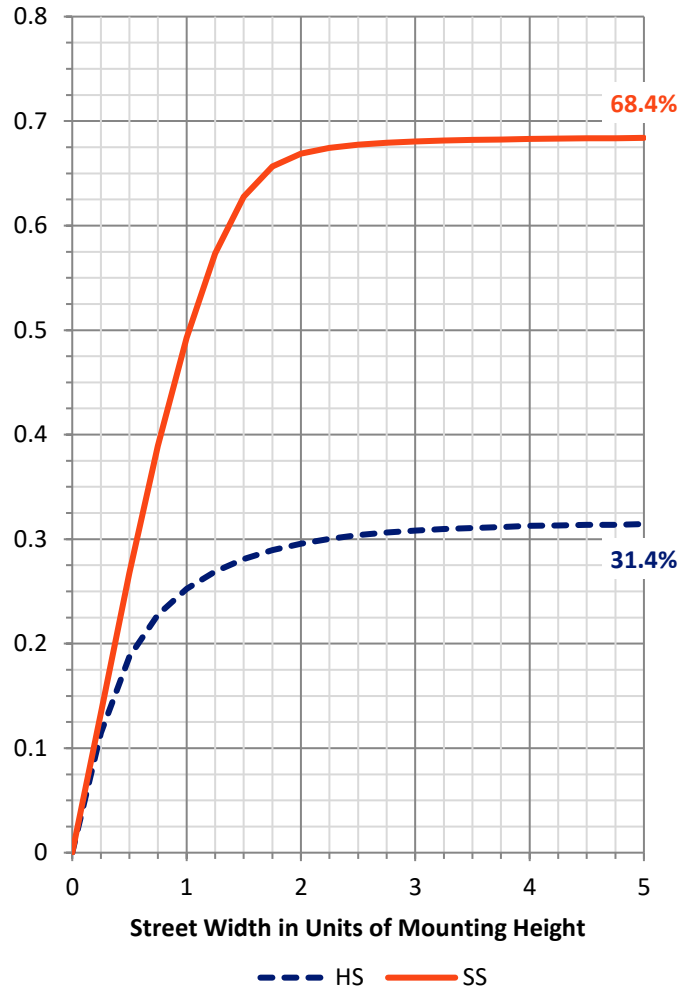
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9606.1	0.0	9606.1
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	20745.0	0.0	20745.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	30351.1	0.0	30351.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.2	1.8
10°-20°	1826.0	6.0
20°-30°	3287.8	10.8
30°-40°	4965.9	16.4
40°-50°	6687.2	22.0
50°-60°	8035.6	26.5
60°-70°	3913.5	12.9
70°-80°	964.1	3.2
80°-90°	115.9	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°	30351.1	100.0
0°-180°	30351.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P643447

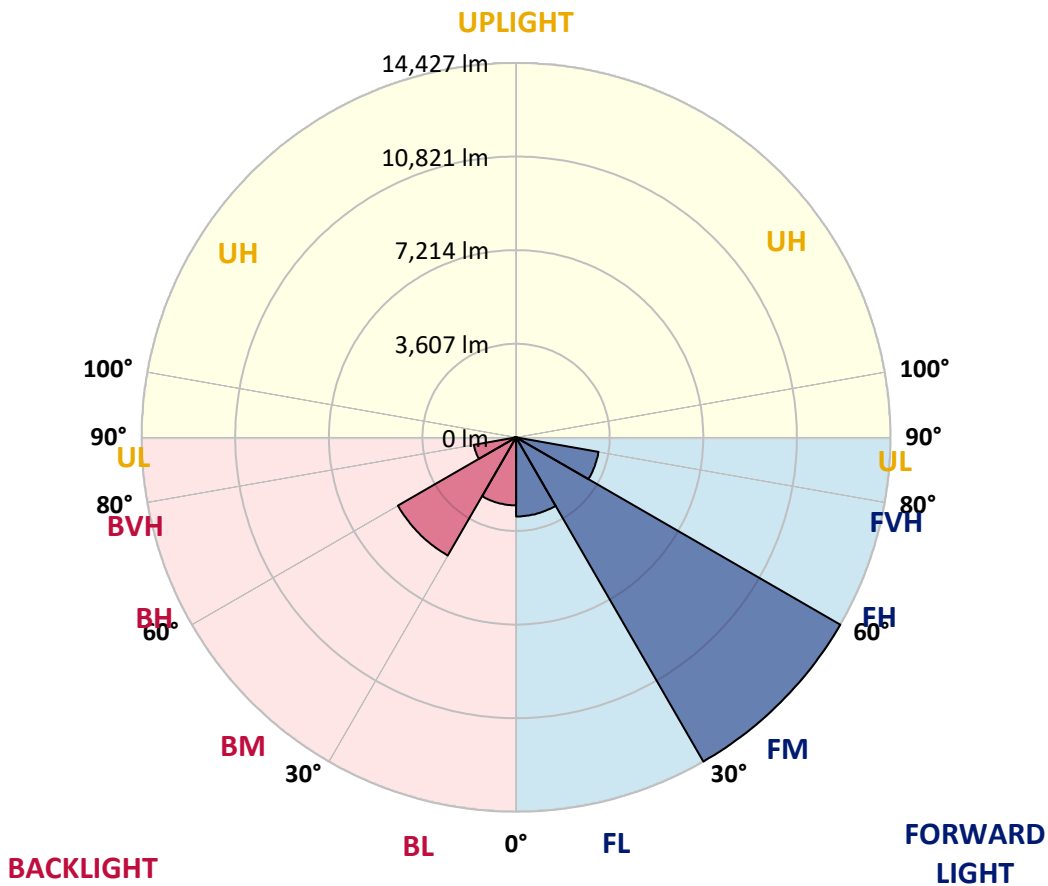
CATALOG NUMBER: GWS-SA6E-830-U-T3-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3048.6	10.0			
FM (30°-60°)	14427.5	47.5			
FH (60°-80°)	3225.4	10.6			G2/5000
FVH (80°-90°)	43.5	0.1			G1/100
BL (0°-30°)	2620.4	8.6	B4/5000		
BM (30°-60°)	5261.2	17.3	B4/8500		
BH (60°-80°)	1652.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	72.3	0.2			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





REPORT NUMBER: P643447

CATALOG NUMBER: GWS-SA6E-830-U-T3-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5628.7	5628.7	5628.7	5628.7	5628.7	5628.7	5628.7	5628.7	5628.7	5628.7	5628.7
2.5°	5618.5	5615.9	5615.9	5631.2	5631.2	5636.3	5644.0	5651.6	5654.1	5641.4	5613.4
5°	5679.6	5679.6	5679.6	5692.4	5692.4	5697.5	5707.7	5710.2	5707.7	5687.3	5659.2
7.5°	5776.5	5776.5	5779.1	5794.4	5807.1	5814.7	5832.6	5830.0	5822.4	5789.3	5753.6
10°	5934.6	5942.2	5949.9	5967.7	5993.2	6011.0	6023.8	6023.8	6013.6	5962.6	5916.7
12.5°	6158.9	6169.1	6176.7	6192.0	6212.4	6243.0	6271.1	6271.1	6258.3	6194.6	6125.8
15°	6421.5	6431.7	6429.1	6434.2	6472.4	6515.8	6538.7	6554.0	6559.1	6469.9	6362.8
17.5°	6722.3	6732.5	6722.3	6707.0	6712.1	6780.9	6821.7	6877.8	6910.9	6791.1	6620.3
20°	6995.0	6984.8	6984.8	6995.0	7010.3	7094.5	7155.6	7247.4	7288.2	7142.9	6877.8
22.5°	7283.1	7306.0	7295.8	7295.8	7357.0	7497.2	7571.2	7691.0	7734.3	7545.7	7188.8
25°	7655.3	7675.7	7670.6	7675.7	7747.0	7945.9	8019.8	8241.6	8284.9	8014.7	7532.9
27.5°	8063.2	8096.3	8111.6	8106.5	8221.2	8481.2	8573.0	8881.4	8960.5	8539.9	7900.0
30°	8593.4	8629.1	8641.8	8636.7	8771.8	9126.2	9230.7	9582.5	9694.6	9161.9	8366.5
32.5°	9207.7	9243.4	9281.7	9297.0	9470.3	9832.3	9982.7	10347.2	10507.8	9880.7	8929.9
35°	9817.0	9847.6	9921.5	10041.3	10278.4	10648.0	10780.6	11140.0	11295.5	10627.7	9610.5
37.5°	10490.0	10510.4	10574.1	10739.8	11081.4	11433.2	11565.8	11909.9	11927.8	11349.1	10380.4
40°	11226.7	11226.7	11214.0	11377.1	11734.0	12088.4	12203.1	12401.9	12297.4	11904.8	11129.9
42.5°	11851.3	11841.1	11851.3	12004.2	12269.3	12557.4	12656.8	12618.6	12486.0	12330.5	11807.9
45°	12414.7	12422.3	12514.1	12631.3	12769.0	12939.8	12998.4	12781.7	12661.9	12672.1	12350.9
47.5°	12797.0	12804.7	13018.8	13215.1	13299.2	13352.8	13327.3	13026.5	12965.3	13080.0	12769.0
50°	12848.0	12888.8	13258.4	13661.2	13870.3	13877.9	13806.5	13439.4	13421.6	13551.6	12993.3
52.5°	12858.2	12899.0	13360.4	14086.9	14629.9	14744.6	14663.1	14280.7	14094.6	13964.6	13268.6
55°	12820.0	12865.9	13375.7	14372.4	15412.5	15871.4	15879.0	15338.6	14744.6	14658.0	14053.8
57.5°	11318.5	11336.3	12126.6	13645.9	15381.9	16682.0	16781.4	16047.3	15369.2	15287.6	14683.4
60°	7884.7	7956.1	8815.2	10821.4	12921.9	15213.7	15534.9	15320.8	14867.0	14273.0	12598.2
62.5°	3948.7	4009.9	4871.5	6768.2	8912.0	10722.0	11066.1	11293.0	11400.1	10762.8	8578.1
65°	1700.3	1746.2	2281.5	3535.8	5044.9	5919.3	6039.1	6311.8	6979.7	6227.7	4621.7
67.5°	1136.9	1167.5	1440.3	2156.6	2972.4	3028.5	3010.6	3069.2	3214.6	2653.7	2087.8
70°	871.8	897.3	1080.9	1580.5	2136.2	1827.8	1730.9	1570.3	1705.4	1738.6	1692.7
72.5°	632.2	652.6	790.3	1078.3	1338.3	1167.5	1152.2	1233.8	1417.4	1468.3	1440.3
75°	407.9	418.1	502.2	591.4	690.8	749.5	780.1	927.9	1114.0	1152.2	1119.1
77.5°	272.8	280.4	328.8	379.8	392.6	395.1	405.3	471.6	599.1	670.4	662.8
80°	142.8	142.8	160.6	160.6	183.5	219.2	229.4	272.8	331.4	367.1	369.6
82.5°	56.1	58.6	68.8	76.5	91.8	112.2	119.8	142.8	173.3	198.8	221.8
85°	22.9	25.5	28.0	33.1	40.8	51.0	53.5	61.2	81.6	102.0	114.7
87.5°	0.0	0.0	2.5	2.5	5.1	7.6	7.6	10.2	12.7	22.9	30.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P643447

CATALOG NUMBER: GWS-SA6E-830-U-T3-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5628.7	5628.7	5628.7	5628.7	5628.7	5628.7	5628.7	5628.7	5628.7	5628.7	5628.7
2.5°	5646.5	5613.4	5646.5	5656.7	5684.7	5694.9	5677.1	5674.5	5674.5	5649.0	5641.4
5°	5684.7	5654.1	5687.3	5702.6	5743.4	5768.9	5774.0	5794.4	5807.1	5796.9	5794.4
7.5°	5779.1	5740.8	5776.5	5799.5	5853.0	5893.8	5911.6	5957.5	5990.6	5985.5	5983.0
10°	5944.8	5893.8	5934.6	5972.8	6031.4	6079.9	6082.4	6107.9	6141.0	6130.8	6125.8
12.5°	6135.9	6087.5	6133.4	6171.6	6240.5	6260.9	6227.7	6217.5	6222.6	6209.9	6199.7
15°	6370.5	6301.6	6342.4	6385.8	6424.0	6401.1	6329.7	6301.6	6299.1	6281.3	6271.1
17.5°	6605.0	6518.3	6548.9	6571.9	6554.0	6482.6	6393.4	6345.0	6322.0	6286.4	6276.2
20°	6837.0	6727.4	6722.3	6704.4	6622.8	6492.8	6373.0	6276.2	6217.5	6169.1	6151.2
22.5°	7102.1	6949.1	6872.7	6791.1	6612.7	6401.1	6220.1	6082.4	5988.1	5926.9	5906.5
25°	7387.6	7170.9	7012.9	6849.7	6510.7	6204.8	5952.4	5763.8	5651.6	5585.3	5562.4
27.5°	7670.6	7372.3	7135.2	6857.4	6306.7	5921.8	5582.8	5327.8	5215.7	5162.1	5144.3
30°	8053.0	7640.0	7280.5	6758.0	6039.1	5529.2	5106.1	4848.6	4774.7	4736.4	4721.1
32.5°	8494.0	7979.0	7474.3	6548.9	5697.5	5070.4	4624.3	4445.8	4394.8	4320.9	4318.4
35°	9075.2	8463.4	7657.8	6240.5	5266.7	4578.4	4254.6	4127.2	4035.4	3918.1	3907.9
37.5°	9753.3	9067.5	7757.2	5847.9	4764.5	4173.1	3979.3	3836.6	3688.7	3533.2	3512.8
40°	10454.3	9773.7	7764.9	5383.9	4272.5	3905.4	3742.2	3556.1	3372.6	3199.3	3176.3
42.5°	11191.0	10431.4	7629.8	4848.6	3869.7	3673.4	3507.7	3273.2	3066.7	2949.4	2936.7
45°	11848.7	10961.6	7323.9	4285.2	3571.4	3479.7	3268.1	3015.7	2906.1	2822.0	2804.1
47.5°	12366.2	11313.4	6910.9	3780.5	3329.3	3280.8	3005.5	2875.5	2791.4	2714.9	2697.1
50°	12621.1	11392.4	6373.0	3370.1	3104.9	3046.3	2857.7	2758.2	2702.2	2641.0	2625.7
52.5°	12937.2	11481.6	5909.1	3025.9	2885.7	2806.7	2735.3	2656.3	2615.5	2577.3	2564.5
55°	13663.8	11818.1	5664.3	2750.6	2676.7	2641.0	2630.8	2564.5	2551.8	2526.3	2503.3
57.5°	13959.5	11601.5	5085.7	2526.3	2511.0	2516.1	2541.6	2480.4	2467.6	2437.0	2421.7
60°	11226.7	8769.3	3444.0	2332.5	2373.3	2406.5	2431.9	2370.8	2352.9	2347.8	2327.4
62.5°	7193.9	5394.1	2403.9	2151.5	2212.7	2253.5	2268.8	2210.2	2197.4	2238.2	2240.8
65°	3744.8	2939.2	1950.1	1957.8	2008.8	2070.0	2100.5	2080.2	2075.1	2118.4	2120.9
67.5°	1911.9	1797.2	1700.3	1728.4	1769.2	1848.2	1919.6	2008.8	2039.4	2044.5	2047.0
70°	1628.9	1578.0	1529.5	1547.4	1590.7	1634.0	1702.9	1746.2	1695.2	1682.5	1677.4
72.5°	1386.8	1348.5	1325.6	1346.0	1368.9	1361.3	1340.9	1361.3	1368.9	1371.5	1374.0
75°	1078.3	1050.3	1032.4	1035.0	1035.0	1006.9	968.7	945.8	920.3	899.9	899.9
77.5°	660.2	665.3	683.2	680.6	678.1	667.9	629.7	609.3	548.1	530.2	530.2
80°	377.3	384.9	402.8	407.9	407.9	395.1	356.9	333.9	305.9	293.2	290.6
82.5°	229.4	239.6	249.8	254.9	257.5	242.2	209.0	191.2	175.9	163.1	163.1
85°	119.8	124.9	135.1	137.7	130.0	114.7	96.9	89.2	73.9	71.4	71.4
87.5°	33.1	35.7	40.8	33.1	30.6	22.9	12.7	10.2	5.1	2.5	2.5
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)