

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: P643917

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643917  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
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  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

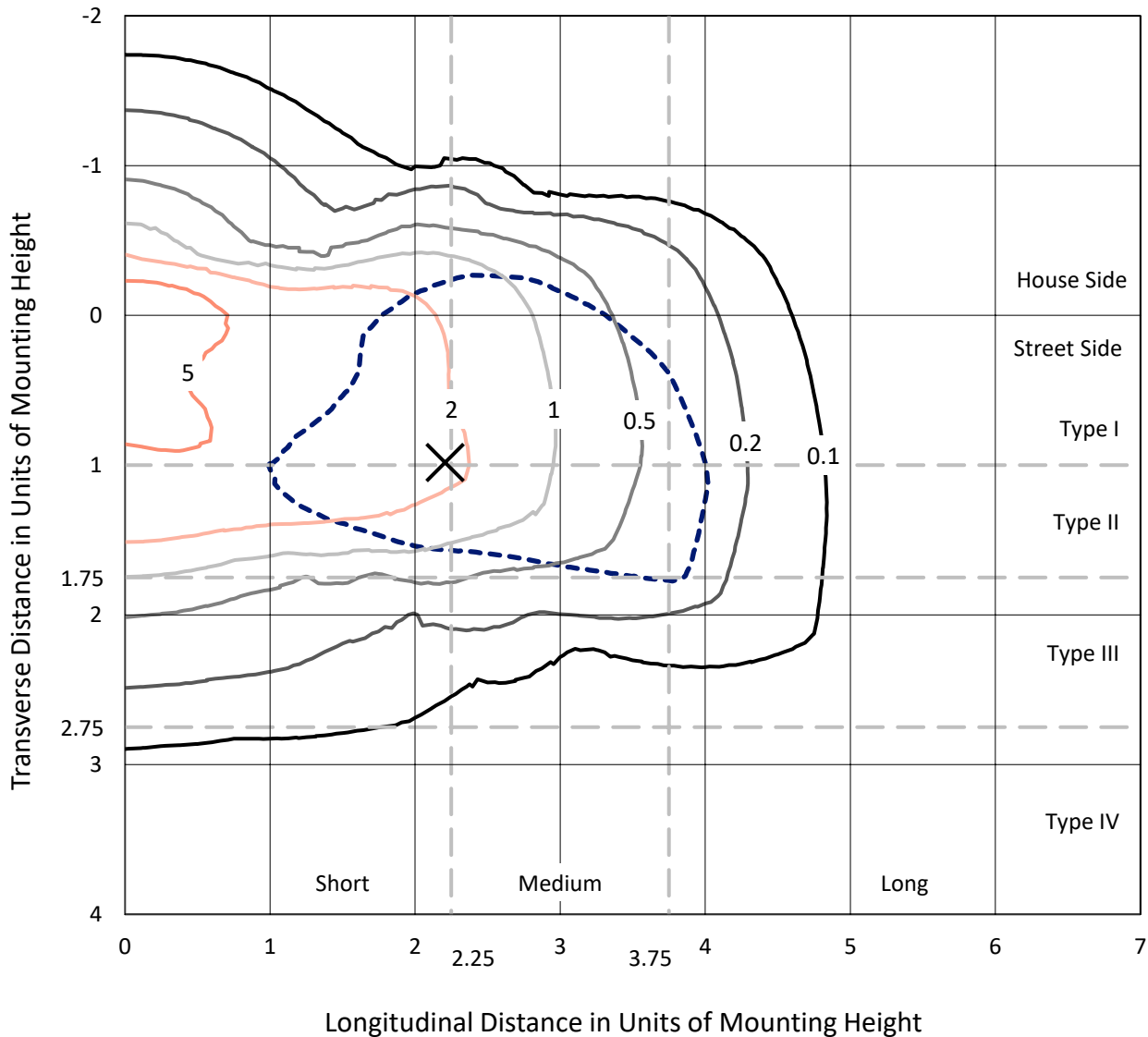
Lumens per Lamp: N/A  
Luminaire Lumens: 38852.3 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P643917  
 CATALOG NUMBER: GWS-SA6F-830-U-SL2-W

### Iso-Footcandle Lines of Horizontal Illumination

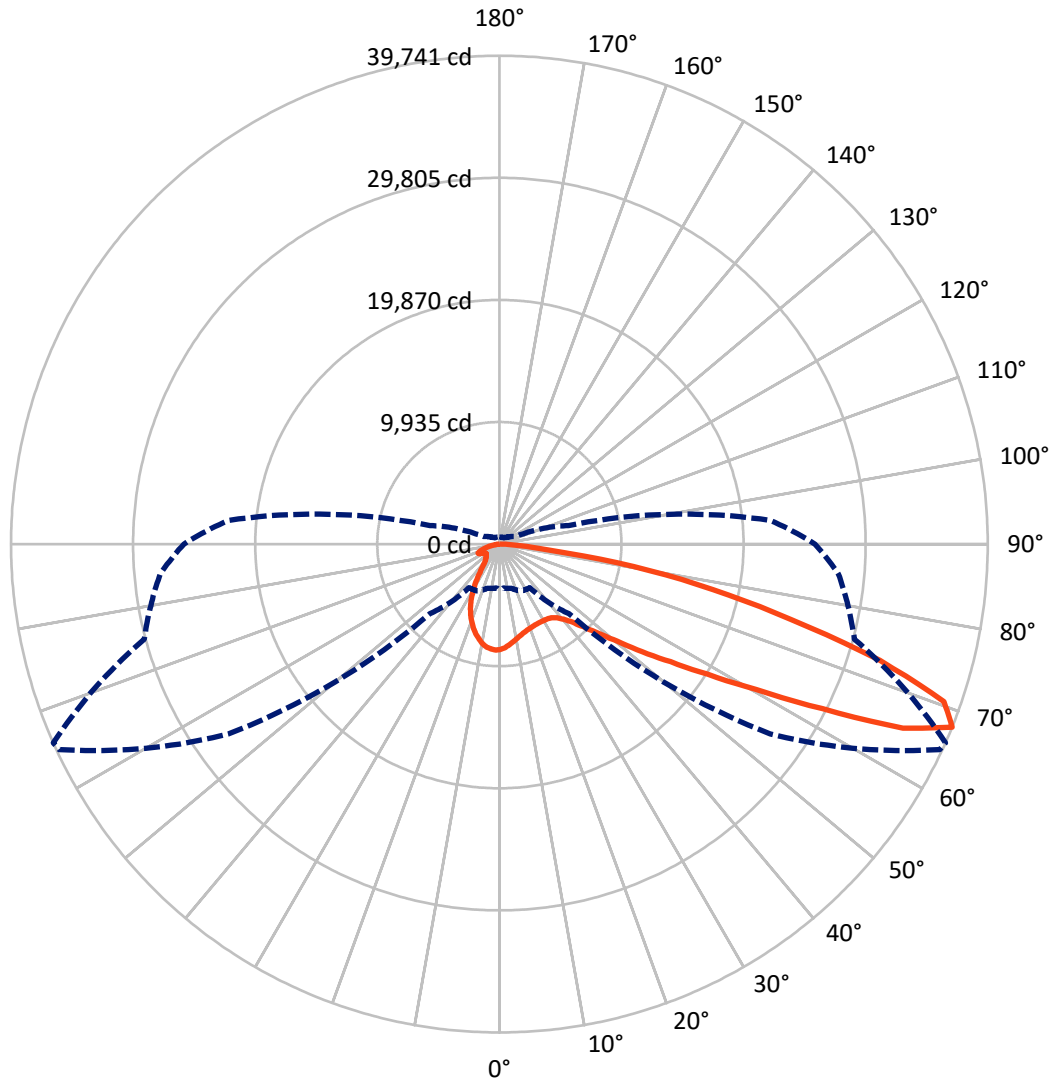
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P643917  
CATALOG NUMBER: GWS-SA6F-830-U-SL2-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P643917

CATALOG NUMBER: GWS-SA6F-830-U-SL2-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7884.0	0.0	7884.0
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	30968.3	0.0	30968.3
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	38852.3	0.0	38852.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	753.5	1.9
10°-20°	1851.7	4.8
20°-30°	2545.3	6.6
30°-40°	3479.8	9.0
40°-50°	5272.8	13.6
50°-60°	8196.7	21.1
60°-70°	9979.3	25.7
70°-80°	6078.9	15.6
80°-90°	694.4	1.8
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°	38852.3	100.0
0°-180°	38852.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P643917

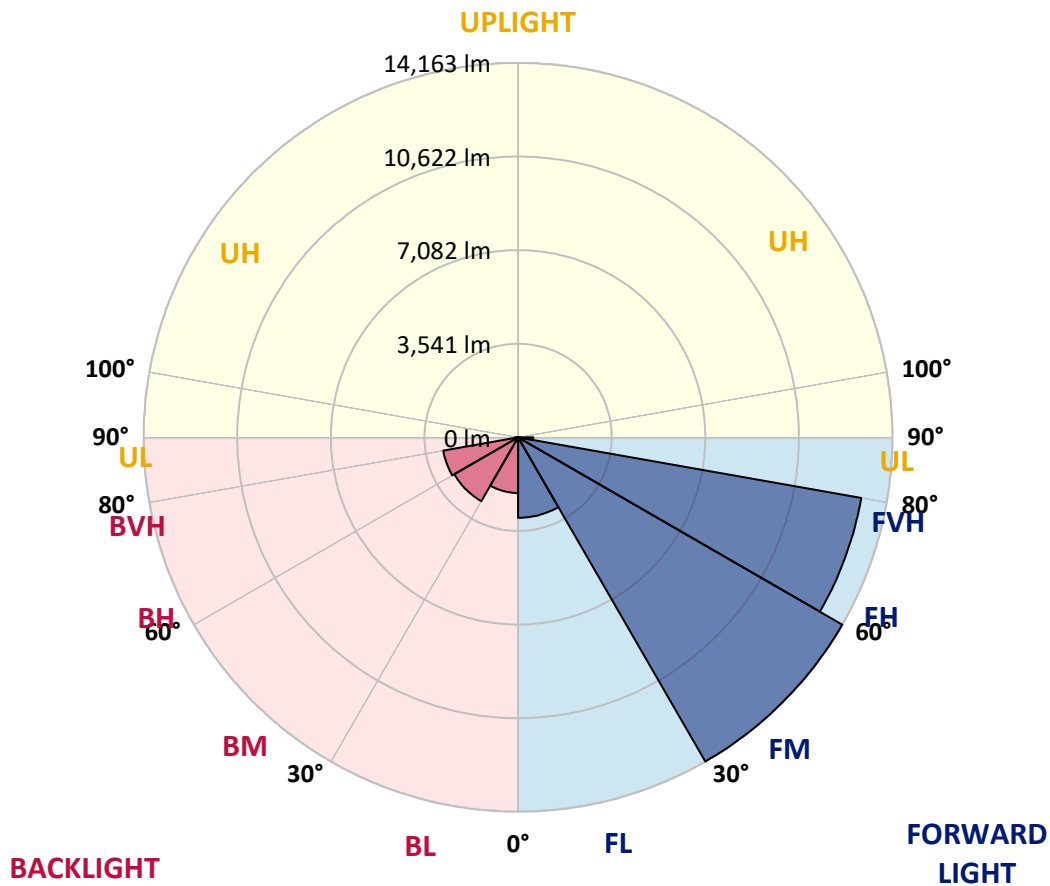
CATALOG NUMBER: GWS-SA6F-830-U-SL2-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3044.3	7.8			
FM (30°-60°)	14163.2	36.5			
FH (60°-80°)	13183.6	33.9			G5
FVH (80°-90°)	577.3	1.5			G4/750
BL (0°-30°)	2106.2	5.4	B3/2500		
BM (30°-60°)	2786.1	7.2	B3/5000		
BH (60°-80°)	2874.7	7.4	B4/5000		G4/5000
BVH (80°-90°)	117.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





REPORT NUMBER: P643917  
 CATALOG NUMBER: GWS-SA6F-830-U-SL2-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8585.3	8585.3	8585.3	8585.3	8585.3	8585.3	8585.3	8585.3	8585.3	8585.3	8585.3
2.5°	8041.1	8069.4	8052.4	8160.1	8165.8	8301.8	8378.3	8443.5	8449.2	8534.2	8590.9
5°	7491.2	7508.2	7508.2	7610.2	7678.3	7859.7	8035.4	8222.5	8236.6	8440.7	8596.6
7.5°	7046.2	7063.2	7051.9	7187.9	7275.8	7477.0	7700.9	7987.2	8015.6	8344.3	8616.4
10°	6697.6	6691.9	6720.3	6845.0	6958.3	7199.3	7448.7	7774.6	7817.1	8233.8	8639.1
12.5°	6459.5	6465.2	6482.2	6612.5	6734.4	6972.5	7230.4	7584.7	7630.1	8106.2	8627.8
15°	6346.1	6334.8	6349.0	6468.0	6584.2	6793.9	7060.4	7426.0	7471.4	7992.9	8630.6
17.5°	6320.6	6312.1	6309.3	6394.3	6482.2	6677.7	6932.8	7304.1	7352.3	7919.2	8647.6
20°	6400.0	6388.6	6357.5	6394.3	6431.1	6595.5	6842.1	7216.3	7270.1	7871.0	8681.6
22.5°	6618.2	6598.4	6550.2	6504.8	6456.7	6555.9	6785.4	7151.1	7204.9	7839.8	8715.6
25°	6949.8	6932.8	6881.8	6779.8	6604.0	6587.0	6774.1	7122.7	7176.6	7817.1	8729.8
27.5°	7406.2	7380.7	7329.6	7182.3	6896.0	6703.2	6816.6	7119.9	7170.9	7791.6	8715.6
30°	7947.5	7930.5	7902.2	7723.6	7341.0	6949.8	6913.0	7142.6	7182.3	7777.5	8687.3
32.5°	8497.4	8480.4	8503.1	8418.0	7947.5	7358.0	7122.7	7204.9	7233.3	7774.6	8661.8
35°	8982.1	9001.9	9166.3	9180.5	8718.5	7910.7	7454.3	7349.5	7355.1	7831.3	8673.1
37.5°	9489.4	9565.9	9781.4	9965.6	9580.1	8641.9	7947.5	7621.6	7615.9	7975.9	8744.0
40°	10161.2	10195.2	10470.1	10815.9	10575.0	9645.3	8647.6	8066.6	8026.9	8270.6	8933.9
42.5°	10815.9	10898.1	11337.4	11734.2	11654.9	10776.2	9529.1	8732.6	8661.8	8792.2	9325.0
45°	11649.2	11728.6	12221.7	12731.9	12876.5	12054.5	10657.2	9679.3	9608.5	9577.3	10042.1
47.5°	12482.5	12564.7	13006.8	13743.8	14251.1	13653.1	12125.4	10929.3	10813.1	10691.2	11124.8
50°	13043.7	13140.1	13562.4	14446.7	15637.1	15648.5	13865.7	12567.5	12420.1	12227.4	12649.7
52.5°	13023.9	13086.2	13488.7	14509.1	16634.8	17941.5	16195.5	14653.6	14534.6	14115.1	14483.5
55°	12000.7	12094.2	12499.5	13775.0	16742.5	20115.4	19619.4	17113.8	16901.2	16150.1	16555.5
57.5°	9945.7	10025.1	10433.3	12006.3	15787.3	21229.3	23967.3	20248.6	19956.7	18366.6	18834.3
60°	7508.2	7411.8	7604.6	8982.1	13502.9	21257.6	27805.0	24500.1	24012.6	20736.1	21127.3
62.5°	5634.7	5538.3	5580.8	5969.1	9155.0	19540.0	29993.1	30316.2	29511.3	23411.8	23335.2
65°	4452.8	4398.9	4520.8	4787.2	5337.1	14880.4	30010.1	36605.7	36098.3	26512.5	25599.9
67.5°	3628.0	3594.0	3718.7	4211.8	4328.1	7995.7	26909.3	39542.1	39740.5	29908.1	27700.1
70°	2922.2	2871.2	3066.8	3715.8	4024.8	4838.2	19276.4	38045.5	38365.8	31931.8	27107.8
72.5°	2018.1	2020.9	2120.1	3010.1	3885.9	4177.8	10903.8	31679.6	32374.0	30098.0	23831.2
75°	1360.5	1371.8	1400.2	1986.9	3579.8	4053.1	5810.4	23984.3	24474.6	24877.1	19698.8
77.5°	822.0	827.6	892.8	1201.8	2468.7	3783.9	3936.9	17385.9	17771.4	16399.6	12210.4
80°	476.2	496.0	555.5	805.0	1666.6	2842.9	3046.9	10660.0	11096.5	7290.0	3880.2
82.5°	209.7	223.9	303.3	467.7	972.2	2417.7	2378.0	4211.8	4149.5	2032.2	1346.3
85°	36.8	45.3	65.2	147.4	357.1	1275.5	1845.2	1859.3	1748.8	770.9	558.4
87.5°	0.0	0.0	0.0	0.0	0.0	8.5	277.8	498.8	496.0	218.2	192.7
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: P643917  
 CATALOG NUMBER: GWS-SA6F-830-U-SL2-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8585.3	8585.3	8585.3	8585.3	8585.3	8585.3	8585.3	8585.3	8585.3	8585.3	8585.3
2.5°	8627.8	8551.2	8619.3	8627.8	8613.6	8602.3	8517.2	8443.5	8435.0	8355.7	8355.7
5°	8658.9	8588.1	8622.1	8556.9	8454.9	8350.0	8168.6	8043.9	7987.2	7885.2	7885.2
7.5°	8701.5	8627.8	8588.1	8426.5	8188.4	7958.9	7666.9	7423.2	7324.0	7179.4	7173.7
10°	8741.1	8647.6	8511.6	8196.9	7817.1	7451.5	7026.4	6680.6	6445.3	6272.4	6272.4
12.5°	8738.3	8616.4	8347.2	7882.3	7358.0	6828.0	6261.1	5739.6	5427.8	5158.5	5141.5
15°	8732.6	8565.4	8137.4	7516.7	6822.3	6088.2	5317.2	4637.0	4175.0	3911.4	3888.7
17.5°	8727.0	8500.2	7902.2	7100.1	6170.4	5169.9	4152.3	3415.4	3029.9	2868.4	2874.0
20°	8727.0	8426.5	7649.9	6621.0	5419.3	4070.1	3046.9	2511.2	2414.9	2423.4	2431.9
22.5°	8701.5	8335.8	7369.3	6099.5	4583.1	2993.1	2247.6	2066.2	2117.3	2196.6	2208.0
25°	8641.9	8185.6	7043.4	5521.3	3588.3	2179.6	1833.8	1799.8	1893.3	1992.6	2020.9
27.5°	8548.4	8012.7	6677.7	4843.9	2641.6	1751.6	1612.7	1609.9	1683.6	1757.3	1782.8
30°	8449.2	7820.0	6292.3	4090.0	1913.2	1524.9	1471.0	1471.0	1507.9	1553.2	1547.6
32.5°	8333.0	7624.4	5878.4	3304.9	1558.9	1397.3	1380.3	1371.8	1377.5	1394.5	1394.5
35°	8233.8	7451.5	5453.3	2474.4	1397.3	1326.5	1309.5	1289.6	1281.1	1269.8	1275.5
37.5°	8196.9	7315.5	5014.0	1865.0	1318.0	1275.5	1247.1	1218.8	1198.9	1193.3	1190.4
40°	8256.5	7258.8	4574.6	1536.2	1261.3	1221.6	1190.4	1153.6	1136.6	1136.6	1136.6
42.5°	8488.9	7301.3	4126.8	1388.8	1221.6	1176.3	1130.9	1096.9	1091.2	1096.9	1099.7
45°	8914.0	7465.7	3662.0	1315.1	1187.6	1130.9	1077.1	1051.5	1051.5	1057.2	1057.2
47.5°	9673.6	7896.5	3202.8	1269.8	1153.6	1094.1	1037.4	1011.9	1009.0	1014.7	1014.7
50°	10988.8	8673.1	2789.0	1238.6	1128.1	1065.7	1009.0	975.0	966.5	963.7	963.7
52.5°	12646.9	10019.4	2525.4	1215.9	1096.9	1034.5	977.9	932.5	915.5	907.0	907.0
55°	14650.8	11813.6	2525.4	1198.9	1057.2	997.7	932.5	887.2	861.6	850.3	850.3
57.5°	16921.1	13902.5	2961.9	1184.8	1026.0	955.2	884.3	839.0	810.6	793.6	793.6
60°	19231.1	16110.5	4041.8	1164.9	997.7	901.3	830.5	788.0	751.1	731.3	728.4
62.5°	21626.1	18542.3	5464.6	1176.3	977.9	850.3	773.8	725.6	694.4	674.6	671.7
65°	23819.9	20858.0	6708.9	1264.1	980.7	805.0	708.6	666.1	640.6	615.1	612.2
67.5°	25682.1	22136.3	5835.9	1442.7	1040.2	751.1	643.4	600.9	578.2	561.2	558.4
70°	24378.3	20186.3	3310.5	1553.2	1122.4	694.4	569.7	541.4	518.7	507.3	504.5
72.5°	20846.7	17091.1	2213.6	1371.8	1023.2	620.7	501.7	479.0	462.0	447.8	445.0
75°	16887.1	13553.9	1692.1	1125.2	796.5	504.5	430.8	413.8	396.8	382.6	379.8
77.5°	9991.1	7831.3	1247.1	890.0	561.2	394.0	357.1	343.0	326.0	314.6	311.8
80°	3188.6	2721.0	790.8	612.2	371.3	303.3	274.9	263.6	246.6	232.4	229.6
82.5°	1215.9	1051.5	419.5	311.8	246.6	206.9	184.2	172.9	161.6	147.4	144.6
85°	538.5	504.5	232.4	167.2	133.2	102.0	90.7	85.0	70.9	59.5	56.7
87.5°	189.9	189.9	99.2	48.2	28.3	14.2	8.5	2.8	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)