

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: P643933

Luminaire Tested: GWS-SA6F-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-830-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

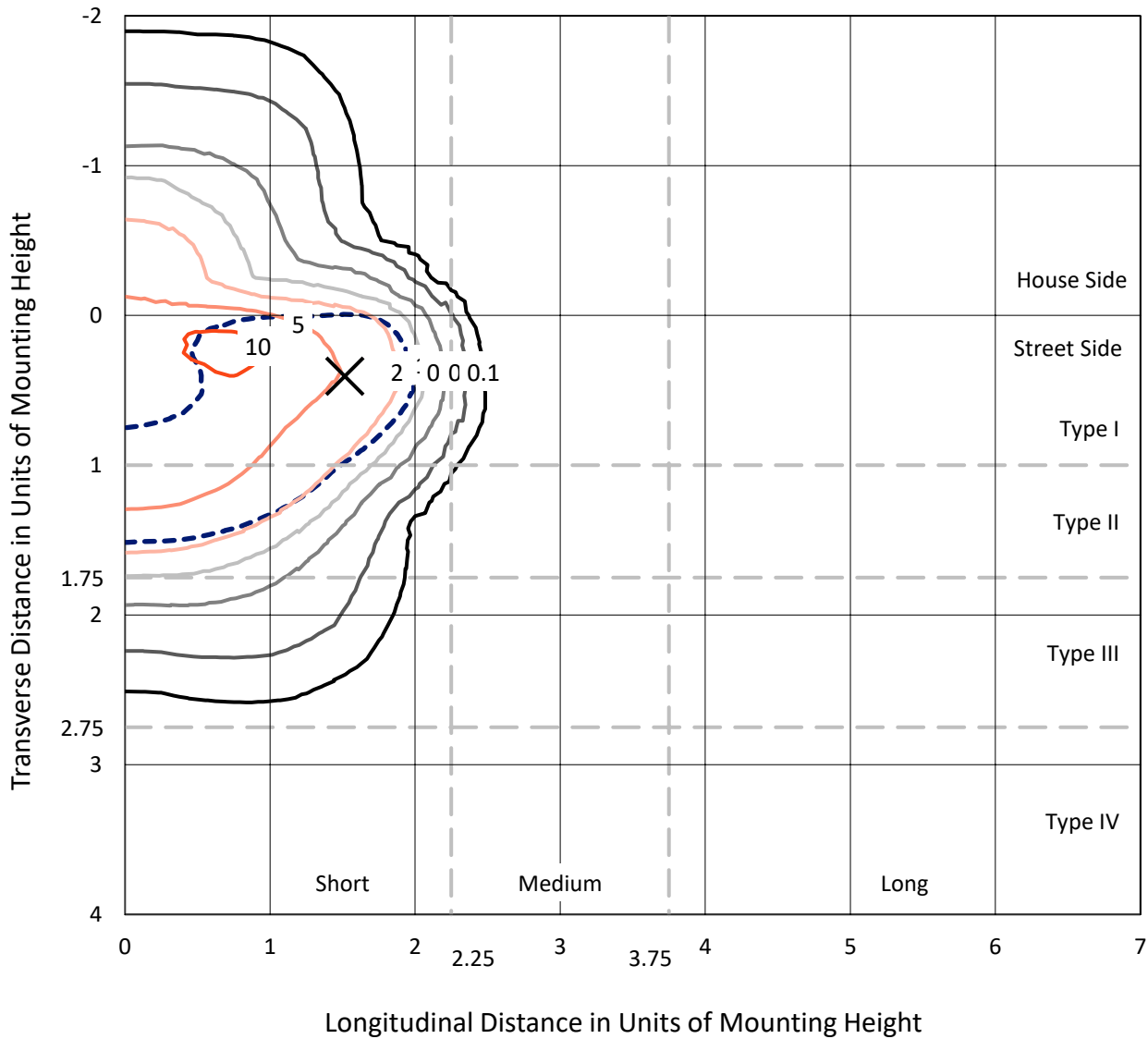
Lumens per Lamp: N/A  
Luminaire Lumens: 23484.8 lumens  
Efficiency: N/A  
Efficacy: 63.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

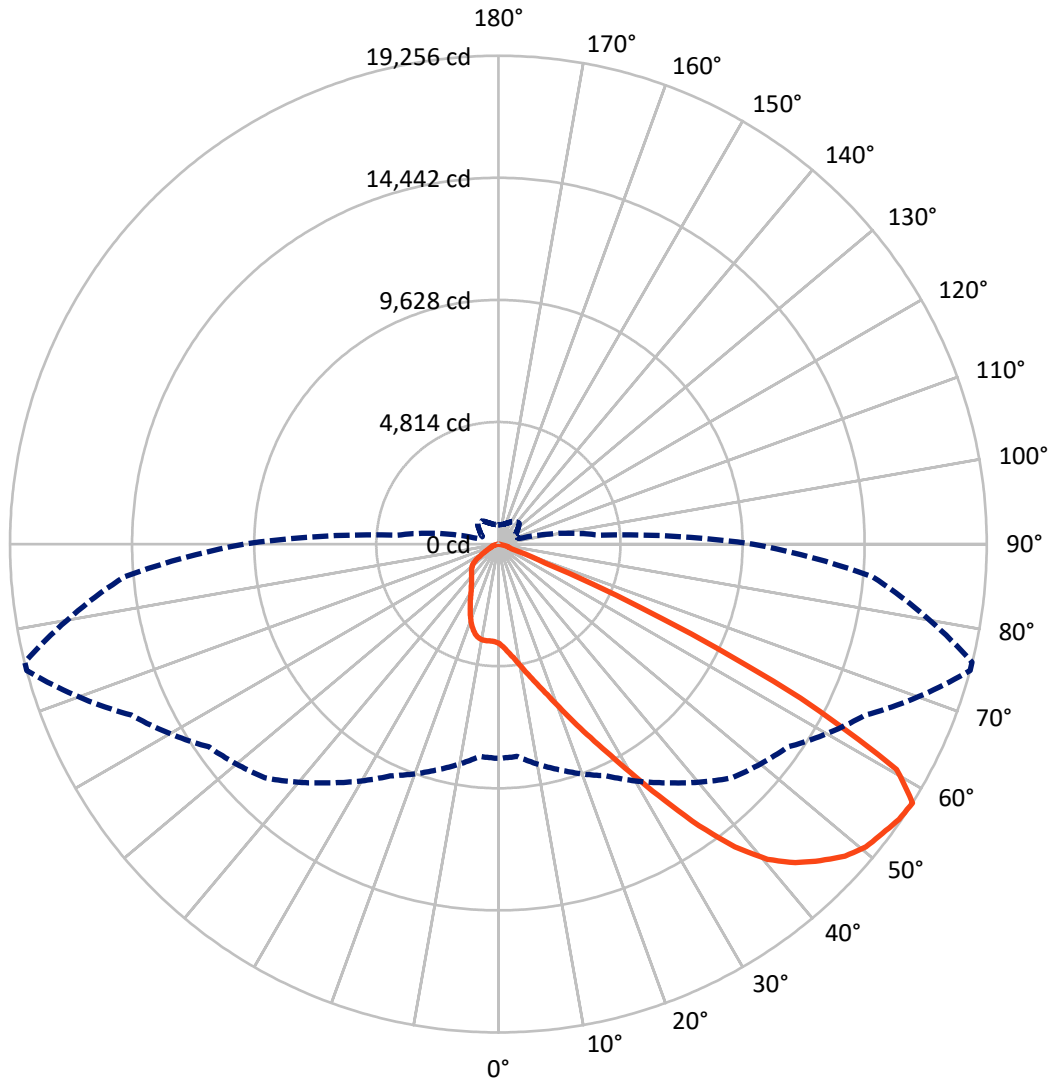
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA6F-830-U-T2-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P643933

CATALOG NUMBER: GWS-SA6F-830-U-T2-W-GRSBK

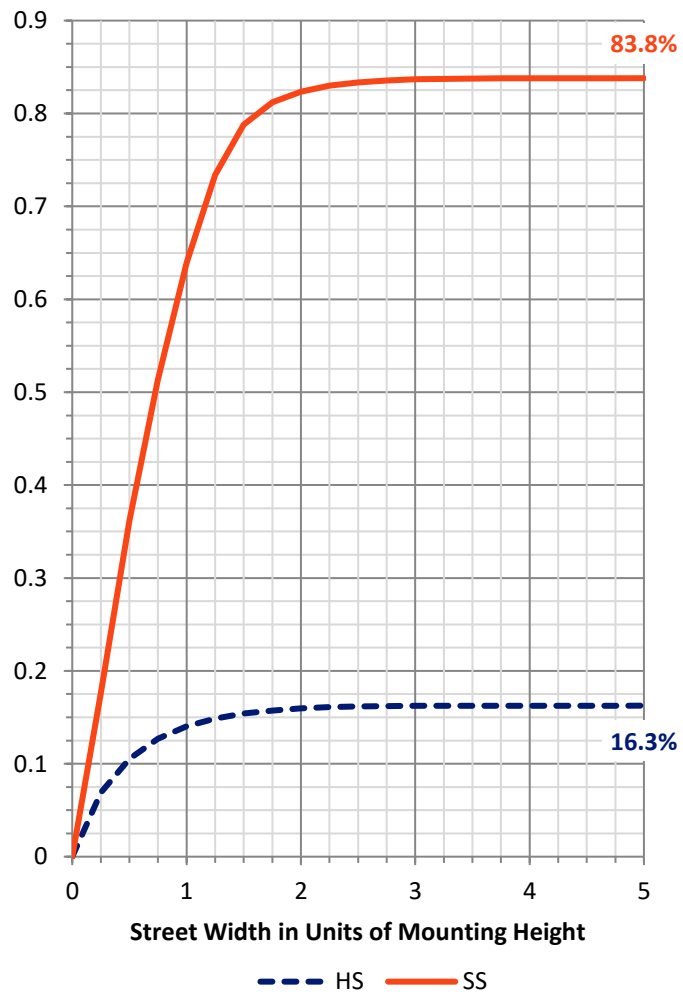
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3836.2	0.0	3836.2
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	19648.6	0.0	19648.6
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	23484.8	0.0	23484.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.6	1.7
10°-20°	1294.8	5.5
20°-30°	2371.0	10.1
30°-40°	3933.7	16.8
40°-50°	6007.8	25.6
50°-60°	6750.8	28.7
60°-70°	2490.0	10.6
70°-80°	238.0	1.0
80°-90°	0.2	0.0
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°	23484.8	100.0
0°-180°	23484.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P643933

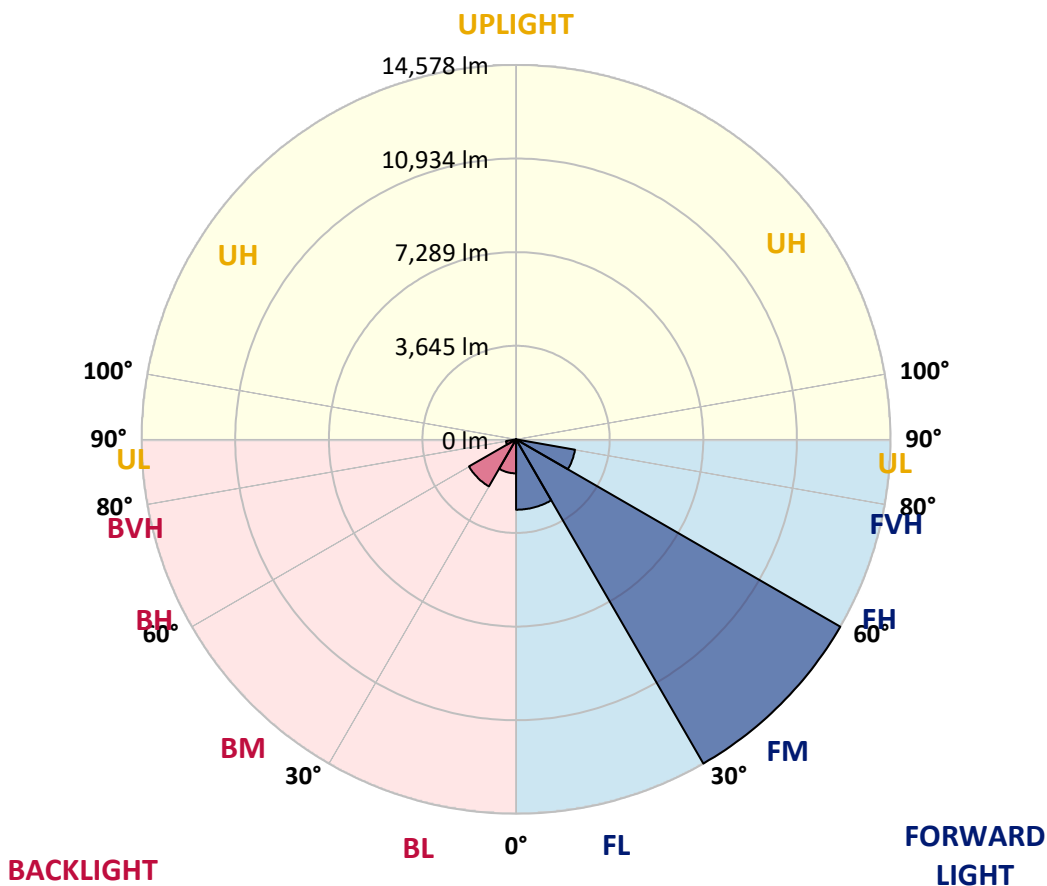
CATALOG NUMBER: GWS-SA6F-830-U-T2-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2740.6	11.7			
FM (30°-60°)	14578.3	62.1			
FH (60°-80°)	2329.6	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1323.7	5.6	B3/2500		
BM (30°-60°)	2114.0	9.0	B2/2500		
BH (60°-80°)	398.4	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P643933

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9
2.5°	4376.1	4421.4	4407.3	4378.9	4361.9	4302.4	4265.6	4157.8	4081.3	4072.8	4002.0
5°	4928.8	4920.3	4908.9	4874.9	4846.6	4753.0	4642.5	4461.1	4299.6	4279.7	4129.5
7.5°	5232.0	5237.7	5243.4	5237.7	5217.9	5147.0	5025.1	4812.6	4566.0	4549.0	4310.9
10°	5356.7	5368.1	5396.4	5450.3	5498.5	5492.8	5421.9	5203.7	4900.4	4872.1	4551.8
12.5°	5416.3	5430.4	5475.8	5577.8	5708.2	5810.2	5821.6	5626.0	5291.6	5246.2	4838.1
15°	5498.5	5512.6	5569.3	5702.5	5892.4	6093.6	6224.0	6099.3	5725.2	5677.0	5152.7
17.5°	5535.3	5555.1	5637.3	5813.1	6059.6	6368.6	6663.3	6652.0	6238.2	6201.3	5518.3
20°	5606.2	5620.3	5694.0	5883.9	6181.5	6626.5	7122.5	7301.0	6864.6	6810.7	5960.4
22.5°	5830.1	5835.7	5869.7	5988.8	6266.5	6813.5	7590.1	8057.8	7604.3	7533.4	6456.4
25°	6195.7	6192.8	6207.0	6226.9	6430.9	7003.4	8040.8	8910.9	8451.7	8375.2	7017.6
27.5°	6660.5	6660.5	6694.5	6637.8	6720.0	7238.7	8485.8	9891.5	9438.1	9330.4	7632.6
30°	7207.5	7204.7	7284.0	7193.3	7218.8	7610.0	8964.7	10960.1	10628.4	10495.2	8341.2
32.5°	7950.1	7933.1	8023.8	7899.1	7814.0	8171.2	9548.6	12076.8	12054.1	11850.0	9231.2
35°	8888.2	8859.9	8888.2	8766.3	8613.3	8956.2	10313.8	13190.6	13635.6	13420.2	10291.2
37.5°	9820.7	9911.4	9942.6	9732.8	9608.1	9951.1	11235.0	14188.3	15146.2	14922.3	11393.7
40°	10920.4	10892.0	10999.7	10764.5	10685.1	11064.9	12136.3	14930.8	16342.3	16129.7	12374.3
42.5°	11731.0	11782.0	11915.2	11784.8	11722.5	12079.6	12893.0	15364.5	17172.7	16963.0	13074.4
45°	12703.1	12740.0	12791.0	12683.3	12618.1	12969.5	13440.0	15554.4	17804.8	17578.0	13544.9
47.5°	13754.6	13783.0	13783.0	13561.9	13352.2	13496.7	13805.6	15662.1	18385.8	18167.6	13893.5
50°	14508.5	14522.7	14647.4	14491.5	14035.2	13811.3	13972.9	15766.9	18771.3	18567.2	14006.9
52.5°	13839.7	13822.7	14233.6	14556.7	14678.6	14233.6	14262.0	15920.0	18958.3	18782.6	14097.6
55°	11654.4	11626.1	12204.3	12989.4	14063.6	14633.2	14610.6	16010.7	19165.2	19057.5	14426.3
57.5°	8448.9	8400.7	9205.7	10078.6	11487.2	13031.9	13938.9	15959.7	19255.9	19247.4	14809.0
60°	5079.0	5039.3	5798.9	6717.2	7805.5	9358.7	10863.7	14296.0	18042.9	18059.9	13814.1
62.5°	3126.2	3163.0	3848.9	4316.6	4721.9	5189.5	6059.6	9616.6	13366.3	13476.9	9707.3
65°	2103.0	2131.4	2766.2	3355.8	3355.8	2743.6	2355.3	4597.2	7131.0	6943.9	4591.5
67.5°	1411.5	1442.6	1944.3	2633.0	2732.2	1913.1	955.1	1371.8	1986.8	1927.3	1136.5
70°	830.4	864.4	1295.3	1805.4	1989.6	1332.1	637.7	581.0	564.0	547.0	442.1
72.5°	371.3	385.5	660.4	918.3	838.9	561.2	450.6	464.8	439.3	430.8	360.0
75°	113.4	119.0	170.1	198.4	201.2	201.2	272.1	365.6	345.8	348.6	277.8
77.5°	28.3	28.3	45.3	42.5	22.7	19.8	51.0	82.2	85.0	76.5	56.7
80°	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P643933

CATALOG NUMBER: GWS-SA6F-830-U-T2-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9
2.5°	3970.8	3897.1	3848.9	3780.9	3732.7	3681.7	3636.3	3599.5	3579.7	3574.0	3576.8
5°	4061.5	3945.3	3831.9	3701.5	3610.8	3525.8	3457.8	3403.9	3378.4	3369.9	3369.9
7.5°	4200.4	4038.8	3837.6	3633.5	3480.5	3347.3	3267.9	3208.4	3185.7	3180.0	3163.0
10°	4381.8	4160.7	3829.1	3511.6	3296.2	3157.4	3100.7	3083.7	3092.2	3095.0	3092.2
12.5°	4600.0	4288.2	3775.2	3333.1	3100.7	3015.6	3021.3	3066.7	3117.7	3143.2	3148.9
15°	4832.4	4404.4	3653.4	3120.5	2933.5	2930.6	3012.8	3117.7	3216.9	3259.4	3270.7
17.5°	5093.2	4498.0	3466.3	2893.8	2788.9	2871.1	3018.5	3180.0	3313.2	3384.1	3398.3
20°	5379.4	4574.5	3228.2	2681.2	2661.4	2808.7	3012.8	3211.2	3375.6	3455.0	3469.1
22.5°	5677.0	4628.3	2953.3	2485.6	2545.2	2737.9	2959.0	3151.7	3307.6	3398.3	3409.6
25°	6017.1	4634.0	2672.7	2321.3	2437.5	2641.5	2828.6	2987.3	3117.7	3197.0	3205.5
27.5°	6314.7	4566.0	2423.3	2188.0	2338.3	2522.5	2647.2	2735.1	2825.8	2871.1	2873.9
30°	6657.7	4446.9	2188.0	2080.3	2236.2	2375.1	2437.5	2457.3	2465.8	2474.3	2463.0
32.5°	7065.8	4302.4	2012.3	1975.5	2120.0	2213.6	2230.6	2190.9	2142.7	2074.7	2057.7
35°	7567.5	4172.0	1867.8	1873.4	1992.5	2049.2	2035.0	1950.0	1856.4	1774.2	1760.1
37.5°	8111.6	4061.5	1757.2	1774.2	1853.6	1893.3	1850.8	1757.2	1714.7	1643.9	1646.7
40°	8593.5	3970.8	1658.0	1675.0	1711.9	1748.7	1680.7	1618.4	1697.7	1692.0	1697.7
42.5°	8936.4	3894.3	1573.0	1564.5	1590.0	1615.5	1564.5	1533.3	1666.5	1629.7	1649.5
45°	9137.6	3823.4	1502.2	1451.1	1490.8	1536.2	1502.2	1462.5	1507.8	1337.8	1323.6
47.5°	9273.7	3783.7	1439.8	1340.6	1411.5	1490.8	1420.0	1323.6	1258.4	1111.0	1099.7
50°	9287.8	3763.9	1366.1	1227.2	1317.9	1403.0	1320.8	1187.6	1094.0	1028.8	1020.3
52.5°	9361.5	3803.6	1264.1	1082.7	1181.9	1317.9	1261.2	1128.0	1000.5	943.8	932.5
55°	9690.3	3970.8	1094.0	884.3	1028.8	1252.7	1213.1	1006.2	884.3	850.3	841.8
57.5°	10030.4	4004.8	861.6	700.1	895.6	1159.2	1108.2	926.8	807.8	768.1	759.6
60°	9171.6	3299.1	646.2	578.2	790.8	1071.3	1026.0	878.6	739.7	691.6	683.1
62.5°	6025.6	1782.7	513.0	490.3	666.0	907.0	935.3	793.6	660.4	609.4	606.5
65°	2777.6	827.6	394.0	388.3	521.5	722.7	804.9	694.4	558.3	513.0	513.0
67.5°	756.7	411.0	308.9	286.3	354.3	484.7	586.7	518.7	396.8	342.9	340.1
70°	377.0	331.6	277.8	246.6	255.1	300.4	345.8	289.1	201.2	164.4	161.6
72.5°	308.9	272.1	235.2	209.7	192.7	184.2	178.6	144.5	93.5	70.9	68.0
75°	229.6	195.6	167.2	136.0	116.2	107.7	96.4	70.9	39.7	22.7	19.8
77.5°	51.0	48.2	45.3	34.0	31.2	25.5	19.8	14.2	5.7	0.0	0.0
80°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)