

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: P642461

Luminaire Tested: GWS-SA6C-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642461  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-830-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

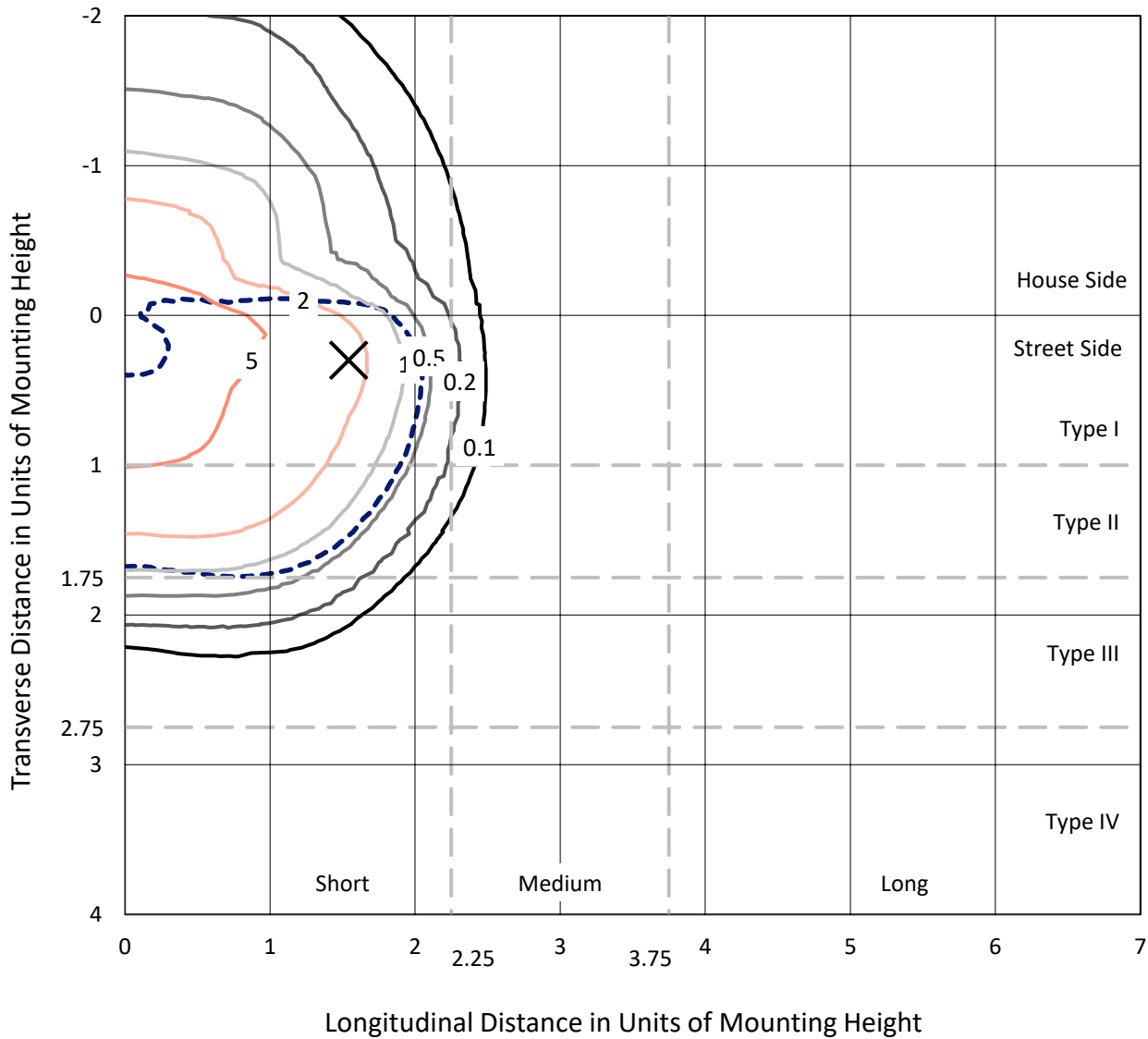
Lumens per Lamp: N/A  
Luminaire Lumens: 19776 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

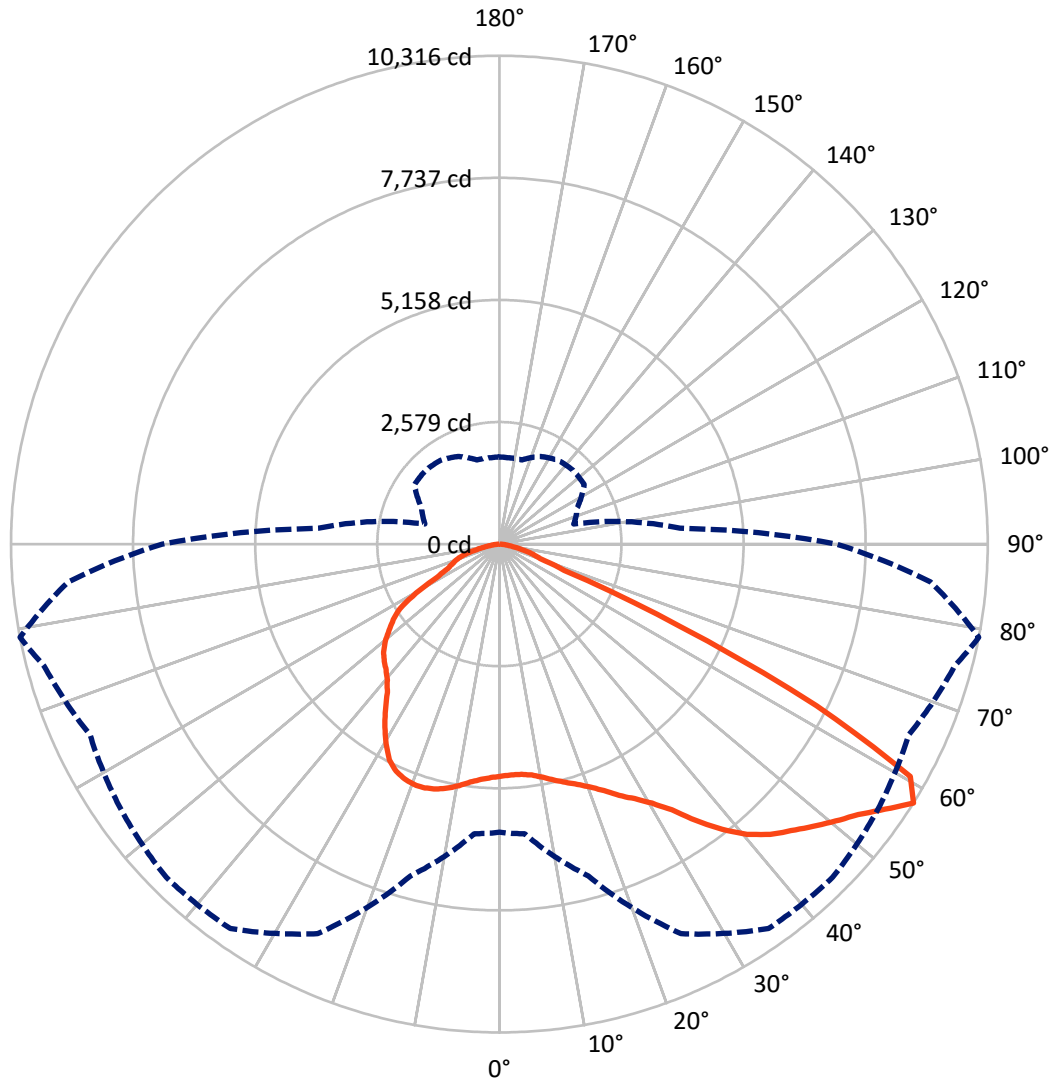
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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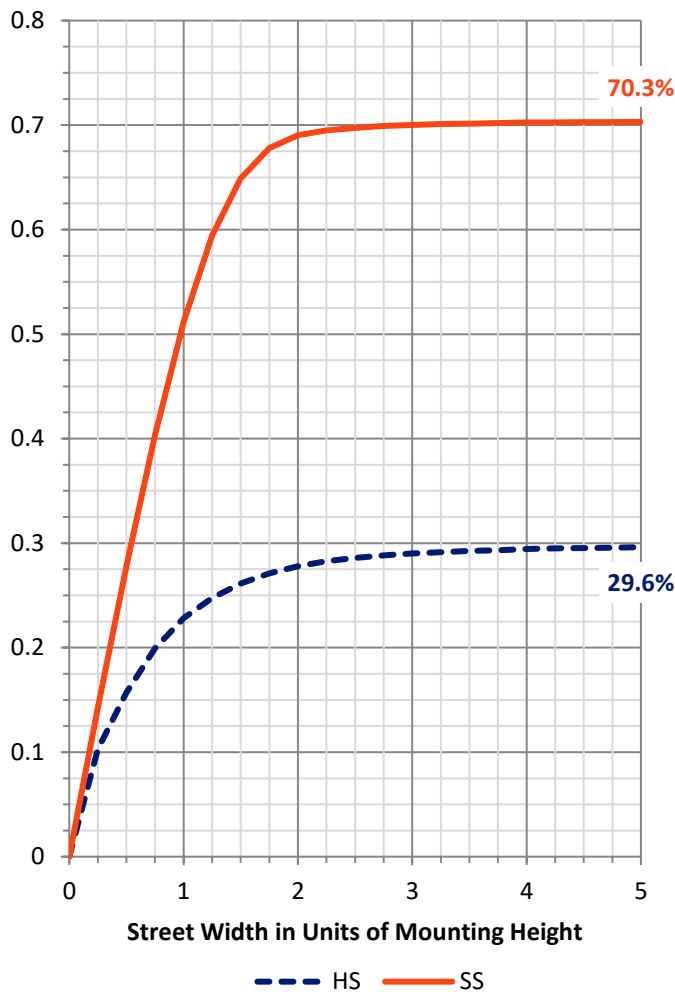
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5878.5	0.0	5878.5
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	13897.5	0.0	13897.5
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	19776.0	0.0	19776.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.9	2.3
10°-20°	1261.3	6.4
20°-30°	2138.0	10.8
30°-40°	3272.4	16.5
40°-50°	4363.5	22.1
50°-60°	5039.5	25.5
60°-70°	2618.7	13.2
70°-80°	556.7	2.8
80°-90°	72.1	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°	19776.0	100.0
0°-180°	19776.0	100.0

**Coefficient of Utilization**



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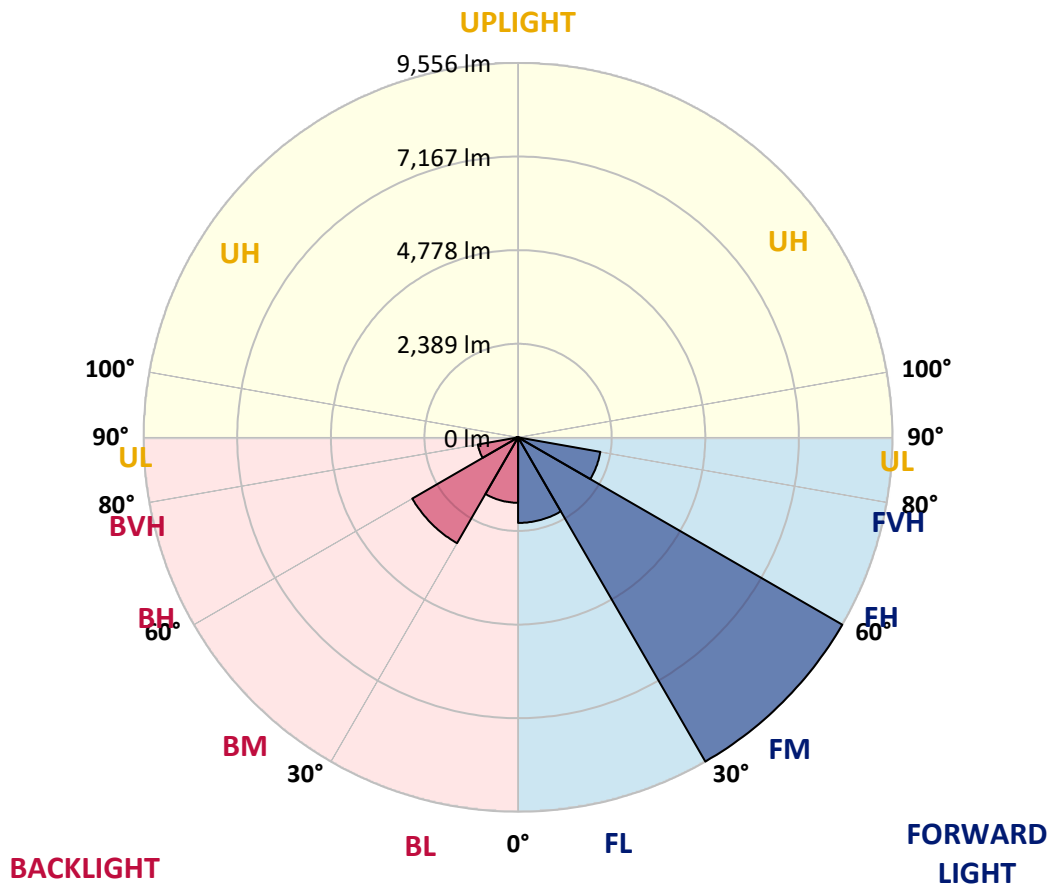
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2183.7	11.0			
FM (30°-60°)	9556.3	48.3			
FH (60°-80°)	2132.3	10.8			G2/5000
FVH (80°-90°)	25.1	0.1			G1/100
BL (0°-30°)	1669.4	8.4	B3/2500		
BM (30°-60°)	3119.1	15.8	B3/5000		
BH (60°-80°)	1043.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	47.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4901.0	4901.0	4901.0	4901.0	4901.0	4901.0	4901.0	4901.0	4901.0	4901.0	4901.0
2.5°	4677.8	4668.1	4671.3	4684.3	4732.8	4768.4	4805.6	4839.5	4871.8	4881.5	4889.6
5°	4511.3	4493.5	4498.3	4519.4	4575.9	4635.8	4702.1	4782.9	4860.5	4886.4	4920.4
7.5°	4393.2	4390.0	4398.1	4430.4	4490.2	4546.8	4632.5	4747.3	4881.5	4925.2	4985.0
10°	4236.4	4229.9	4262.3	4328.6	4427.2	4517.7	4619.6	4755.4	4943.0	5007.7	5099.8
12.5°	4111.9	4108.6	4142.6	4234.8	4360.9	4504.8	4645.5	4797.5	5025.5	5114.4	5227.6
15°	4184.6	4170.1	4171.7	4236.4	4349.6	4519.4	4710.2	4873.5	5107.9	5221.1	5366.6
17.5°	4396.5	4370.6	4351.2	4362.5	4427.2	4603.4	4808.8	4975.3	5203.3	5335.9	5513.8
20°	4689.1	4674.6	4621.2	4585.6	4600.2	4755.4	4964.0	5119.2	5327.8	5476.6	5667.4
22.5°	5082.0	5046.5	4973.7	4917.1	4873.5	4994.7	5187.1	5321.4	5500.8	5656.1	5854.9
25°	5568.7	5517.0	5402.2	5313.3	5219.5	5344.0	5515.4	5617.3	5738.5	5882.4	6071.6
27.5°	6065.1	6021.5	5893.8	5774.1	5657.7	5735.3	5939.0	5997.2	5984.3	6089.4	6251.1
30°	6593.9	6538.9	6417.6	6288.3	6137.9	6188.0	6370.7	6399.9	6262.4	6349.7	6459.7
32.5°	7151.7	7098.4	6993.3	6842.9	6673.1	6692.5	6742.6	6770.1	6639.2	6689.3	6773.4
35°	7719.3	7669.2	7562.4	7413.7	7289.2	7171.1	7045.0	7155.0	7079.0	7176.0	7169.5
37.5°	8238.3	8188.2	8121.9	8007.1	7793.7	7560.8	7269.8	7405.6	7523.6	7646.5	7625.5
40°	8589.2	8555.2	8571.4	8553.6	8278.7	7817.9	7379.7	7528.5	7850.3	8060.5	8049.1
42.5°	8891.6	8857.6	8951.4	9019.3	8695.9	8055.6	7433.1	7575.4	8058.8	8387.1	8370.9
45°	9025.8	9016.1	9171.3	9386.3	9077.5	8307.8	7570.5	7672.4	8217.3	8637.7	8576.3
47.5°	8865.7	8899.6	9205.2	9569.1	9394.4	8607.0	7851.9	7877.7	8424.3	8909.3	8736.3
50°	8547.2	8621.5	9033.9	9573.9	9625.7	8944.9	8241.6	8176.9	8702.4	9198.8	8820.4
52.5°	8083.1	8160.7	8833.4	9536.7	9758.2	9336.2	8760.6	8668.4	9053.3	9488.2	8835.0
55°	7017.5	7122.6	8374.1	9452.6	9887.6	9691.9	9345.9	9158.4	9506.0	9886.0	8978.9
57.5°	6087.8	6142.8	7255.2	9079.1	9913.5	9953.9	9763.1	9540.0	9955.5	10316.1	9140.6
60°	4467.6	4480.5	5481.4	7512.3	9119.6	9801.9	9729.1	9397.7	9742.1	9971.7	8400.0
62.5°	2524.0	2525.7	3324.4	5014.1	6812.2	7989.3	8034.6	7741.9	7452.5	7520.4	5846.9
65°	947.5	1036.5	1518.3	2464.2	3927.6	4716.6	4904.2	4972.1	4490.2	4191.1	3135.2
67.5°	633.8	654.9	886.1	1267.7	1747.9	2017.9	2257.3	2263.7	1655.7	1476.3	1235.3
70°	483.5	504.5	696.9	907.1	886.1	818.2	884.5	860.2	889.3	913.6	939.4
72.5°	360.6	381.6	540.1	640.3	532.0	523.9	593.4	659.7	721.2	747.0	787.5
75°	239.3	255.5	363.8	342.8	294.3	347.6	433.3	499.6	535.2	565.9	596.7
77.5°	152.0	163.3	194.0	156.8	163.3	203.7	252.2	312.1	346.0	376.7	392.9
80°	69.5	67.9	66.3	74.4	92.2	119.7	152.0	187.6	213.4	226.4	236.1
82.5°	27.5	30.7	34.0	40.4	50.1	64.7	85.7	110.0	131.0	134.2	142.3
85°	11.3	12.9	14.6	17.8	22.6	29.1	35.6	50.1	63.1	67.9	72.8
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	4.9	8.1	14.6	16.2	17.8
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°	4901.0	4901.0	4901.0	4901.0	4901.0	4901.0	4901.0	4901.0	4901.0	4901.0	4901.0
2.5°	4933.3	4912.3	4947.8	4972.1	4994.7	4970.5	4962.4	4941.4	4938.1	4938.1	4949.5
5°	4978.6	4964.0	5001.2	5015.8	5014.1	4960.8	4928.4	4886.4	4865.4	4865.4	4868.6
7.5°	5059.4	5051.3	5072.3	5049.7	4998.0	4889.6	4782.9	4694.0	4634.2	4603.4	4613.1
10°	5193.6	5183.9	5166.1	5082.0	4933.3	4708.5	4490.2	4328.6	4231.5	4176.6	4179.8
12.5°	5324.6	5308.4	5245.4	5059.4	4753.8	4396.5	4110.3	3929.2	3822.4	3757.8	3743.2
15°	5468.5	5426.5	5290.6	4943.0	4461.1	4014.9	3715.7	3520.1	3405.3	3366.5	3364.9
17.5°	5605.9	5531.6	5285.8	4736.0	4110.3	3615.5	3314.7	3193.5	3174.1	3191.8	3196.7
20°	5745.0	5625.3	5232.4	4449.8	3693.1	3217.7	3062.5	3112.6	3185.4	3233.9	3245.2
22.5°	5888.9	5703.0	5111.2	4081.2	3253.3	2949.3	3014.0	3123.9	3214.5	3279.2	3285.6
25°	6050.6	5775.7	4930.1	3630.0	2900.8	2874.9	3002.7	3119.1	3216.1	3290.5	3303.4
27.5°	6142.8	5777.3	4676.2	3166.0	2739.1	2845.8	2975.2	3085.1	3182.1	3263.0	3277.5
30°	6233.3	5733.7	4273.6	2789.2	2692.2	2811.9	2928.3	3030.1	3122.3	3201.5	3219.3
32.5°	6361.0	5693.3	3809.5	2572.6	2664.7	2779.5	2874.9	2965.5	3036.6	3072.2	3081.9
35°	6519.5	5641.5	3316.3	2478.8	2646.9	2753.7	2837.7	2886.2	2794.1	2774.7	2795.7
37.5°	6741.0	5593.0	2824.8	2438.3	2635.6	2743.9	2818.3	2693.8	2580.6	2535.4	2551.5
40°	6980.3	5565.5	2491.7	2406.0	2640.5	2753.7	2737.5	2553.2	2389.8	2294.4	2291.2
42.5°	7184.1	5523.5	2278.3	2385.0	2653.4	2790.8	2627.5	2428.6	2186.1	2129.5	2131.1
45°	7321.5	5416.8	2165.1	2362.4	2664.7	2798.9	2575.8	2257.3	2084.2	2048.7	2047.0
47.5°	7378.1	5222.7	2092.3	2326.8	2663.1	2732.6	2470.7	2186.1	2013.1	2003.4	2009.9
50°	7340.9	4904.2	2017.9	2257.3	2624.3	2663.1	2349.4	2123.0	1964.6	2017.9	2056.7
52.5°	7203.5	4491.9	1929.0	2161.9	2554.8	2583.9	2288.0	2084.2	1929.0	2000.2	2030.9
55°	7167.9	4157.2	1815.8	2037.3	2451.3	2443.2	2223.3	2064.8	1904.8	1877.3	1882.1
57.5°	7121.0	3830.5	1628.3	1814.2	2189.3	2202.3	2161.9	2042.2	1841.7	1833.6	1841.7
60°	6186.4	2936.4	1452.0	1565.2	1798.0	1867.6	2092.3	2000.2	1739.8	1705.9	1704.3
62.5°	4040.7	1778.6	1291.9	1364.7	1464.9	1545.8	1908.0	1878.9	1628.3	1607.2	1621.8
65°	2173.2	1267.7	1175.5	1219.2	1274.1	1335.6	1581.4	1673.5	1471.4	1397.0	1398.7
67.5°	1110.8	1078.5	1088.2	1118.9	1161.0	1191.7	1275.8	1356.6	1254.7	1191.7	1190.1
70°	950.8	976.6	991.2	1009.0	1036.5	1031.6	1039.7	1054.2	1046.2	1015.4	1013.8
72.5°	810.1	850.5	853.7	857.0	866.7	844.0	829.5	805.2	806.9	811.7	813.3
75°	616.1	654.9	664.6	659.7	669.4	640.3	620.9	596.7	567.5	562.7	565.9
77.5°	401.0	431.7	446.3	443.0	447.9	425.3	415.6	389.7	355.7	342.8	342.8
80°	242.5	260.3	271.6	274.9	279.7	263.6	247.4	224.8	210.2	195.6	195.6
82.5°	147.1	158.5	166.5	166.5	171.4	153.6	140.7	124.5	118.0	105.1	105.1
85°	74.4	82.5	85.7	84.1	80.8	66.3	61.4	53.4	50.1	43.7	43.7
87.5°	17.8	22.6	22.6	16.2	16.2	8.1	4.9	1.6	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)