

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: P641467

Luminaire Tested: GWS-SA5F-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641467  
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-SA5F-830-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

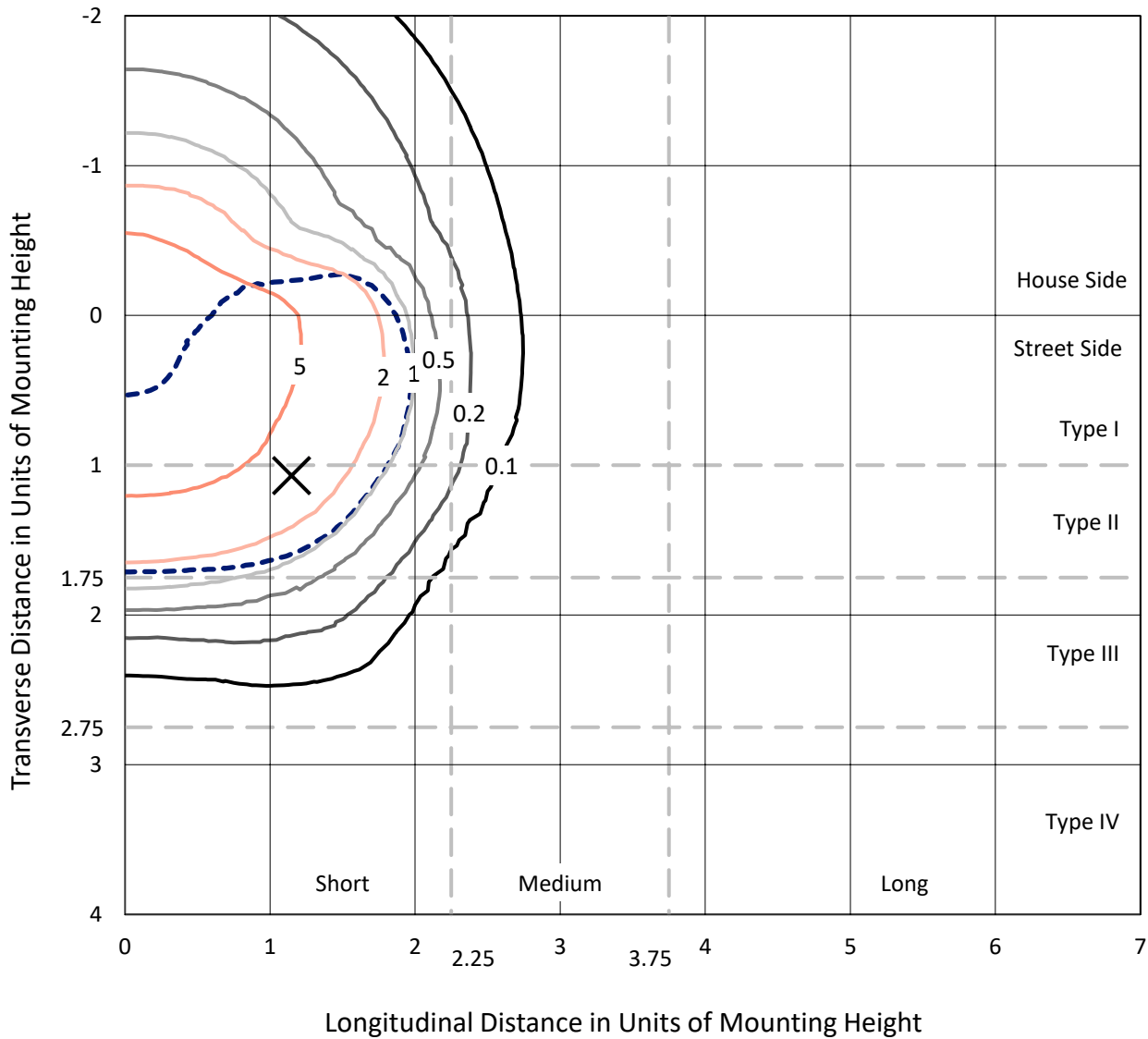
Lumens per Lamp: N/A  
Luminaire Lumens: 28299.3 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

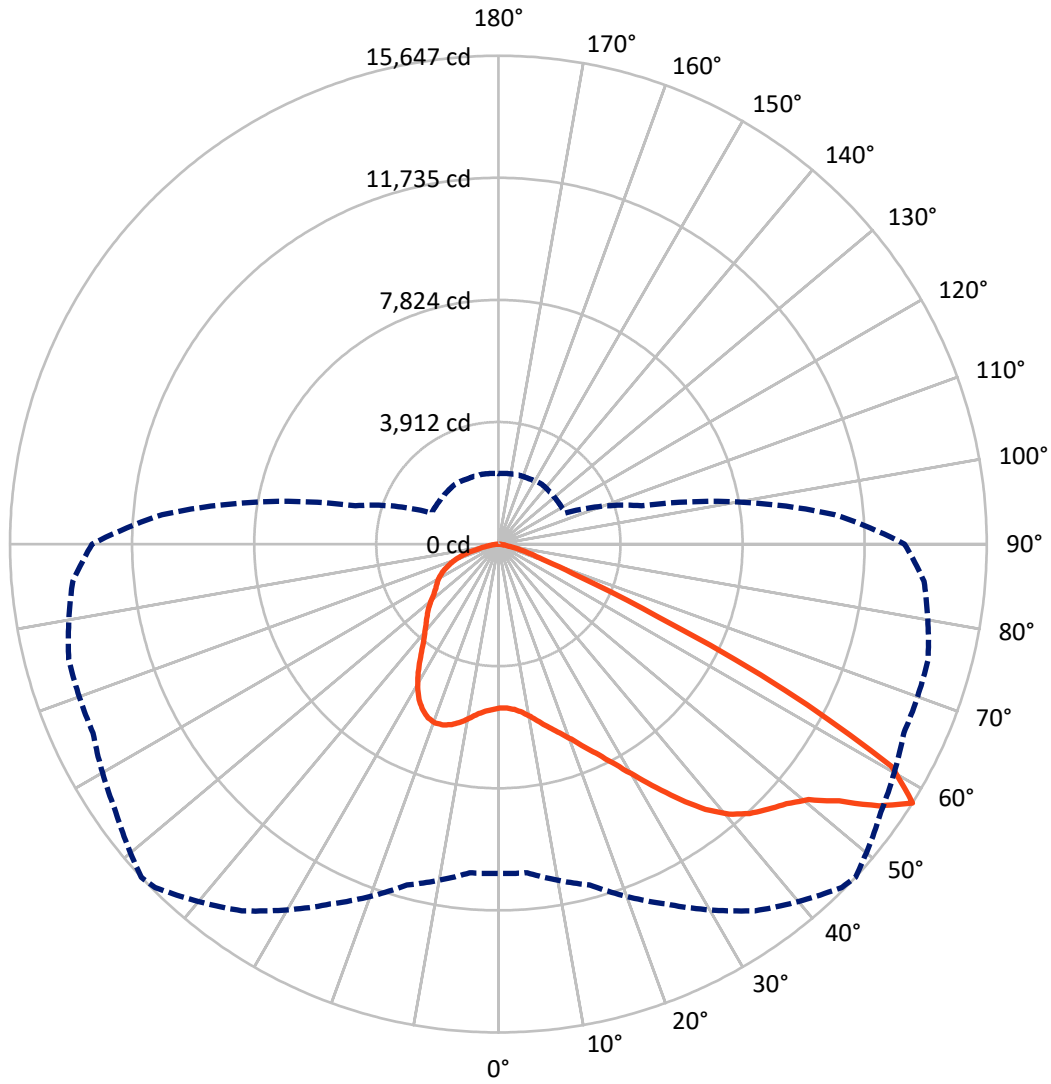
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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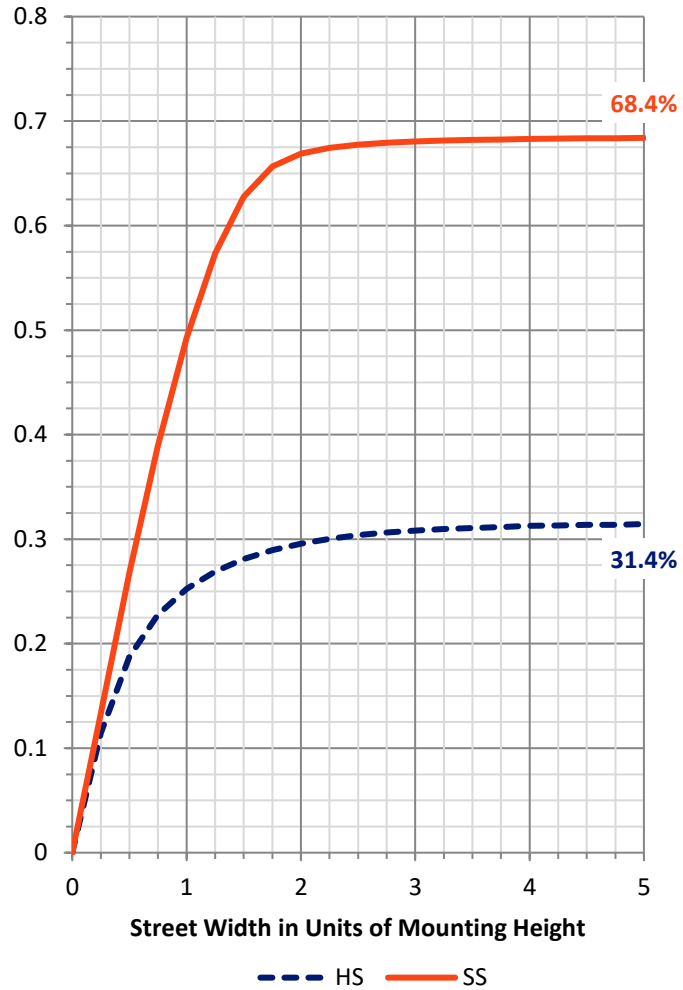
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8956.7	0.0	8956.7
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	19342.6	0.0	19342.6
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	28299.3	0.0	28299.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.6	1.8
10°-20°	1702.5	6.0
20°-30°	3065.6	10.8
30°-40°	4630.2	16.4
40°-50°	6235.1	22.0
50°-60°	7492.3	26.5
60°-70°	3648.9	12.9
70°-80°	898.9	3.2
80°-90°	108.0	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°	28299.3	100.0
0°-180°	28299.3	100.0

**Coefficient of Utilization**



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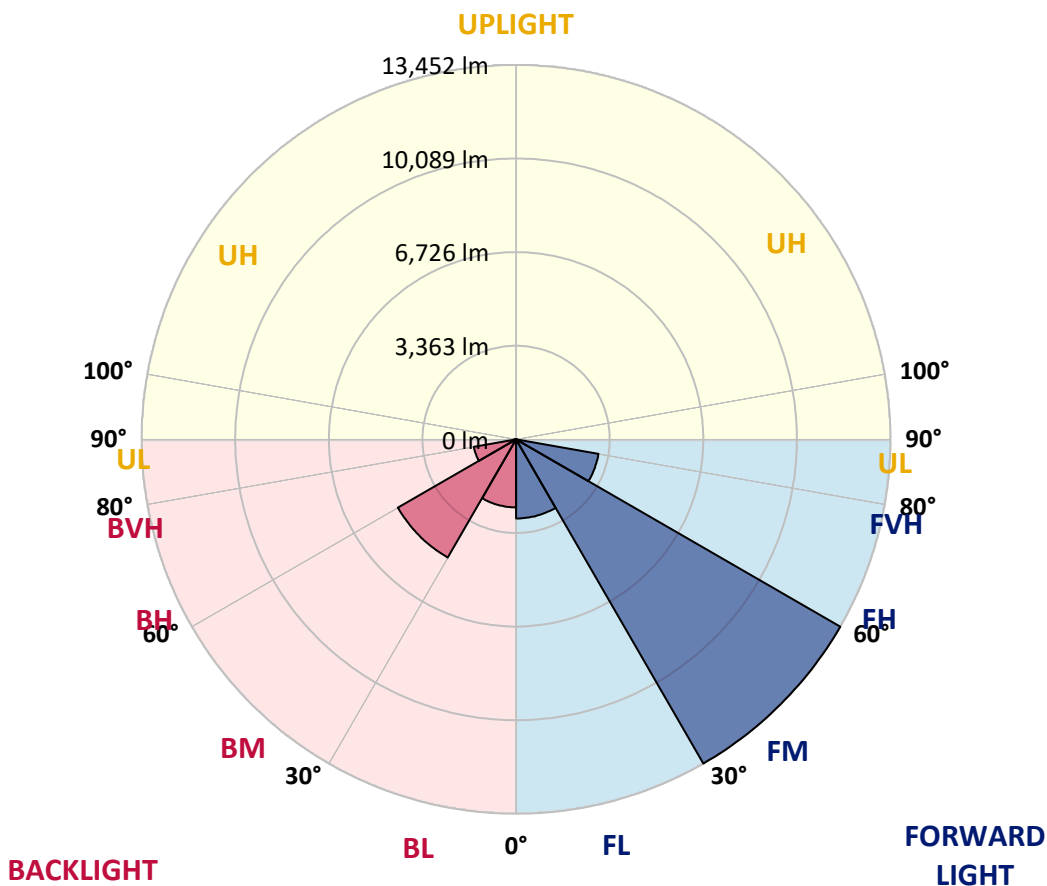
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2842.5	10.0			
FM (30°-60°)	13452.2	47.5			
FH (60°-80°)	3007.4	10.6			G2/5000
FVH (80°-90°)	40.6	0.1			G1/100
BL (0°-30°)	2443.2	8.6	B3/2500		
BM (30°-60°)	4905.5	17.3	B3/5000		
BH (60°-80°)	1540.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	67.4	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°	47°	55°	65°	75°	85°
0°	5248.1	5248.1	5248.1	5248.1	5248.1	5248.1	5248.1	5248.1	5248.1	5248.1	5248.1
2.5°	5238.6	5236.3	5236.3	5250.5	5250.5	5255.3	5262.4	5269.5	5271.9	5260.0	5233.9
5°	5295.7	5295.7	5295.7	5307.6	5307.6	5312.3	5321.8	5324.2	5321.8	5302.8	5276.7
7.5°	5386.0	5386.0	5388.4	5402.6	5414.5	5421.7	5438.3	5435.9	5428.8	5397.9	5364.6
10°	5533.4	5540.5	5547.6	5564.3	5588.0	5604.7	5616.6	5616.6	5607.1	5559.5	5516.7
12.5°	5742.5	5752.0	5759.2	5773.4	5792.5	5821.0	5847.1	5847.1	5835.2	5775.8	5711.6
15°	5987.4	5996.9	5994.5	5999.2	6034.9	6075.3	6096.7	6111.0	6115.7	6032.5	5932.7
17.5°	6267.8	6277.3	6267.8	6253.6	6258.3	6322.5	6360.5	6412.8	6443.7	6332.0	6172.8
20°	6522.2	6512.6	6512.6	6522.2	6536.4	6614.9	6671.9	6757.5	6795.5	6660.0	6412.8
22.5°	6790.7	6812.1	6802.6	6802.6	6859.7	6990.4	7059.3	7171.0	7211.4	7035.6	6702.8
25°	7137.8	7156.8	7152.0	7156.8	7223.3	7408.7	7477.7	7684.4	7724.9	7472.9	7023.7
27.5°	7518.1	7549.0	7563.2	7558.5	7665.4	7907.9	7993.4	8281.0	8354.7	7962.5	7365.9
30°	8012.5	8045.7	8057.6	8052.9	8178.8	8509.2	8606.7	8934.7	9039.3	8542.5	7800.9
32.5°	8585.3	8618.6	8654.2	8668.5	8830.1	9167.6	9307.9	9647.7	9797.5	9212.8	8326.2
35°	9153.4	9181.9	9250.8	9362.5	9583.6	9928.2	10051.8	10387.0	10531.9	9909.2	8960.8
37.5°	9780.9	9799.9	9859.3	10013.8	10332.3	10660.3	10783.9	11104.8	11121.4	10581.9	9678.6
40°	10467.8	10467.8	10455.9	10608.0	10940.8	11271.2	11378.1	11563.5	11466.1	11100.0	10377.4
42.5°	11050.1	11040.6	11050.1	11192.7	11439.9	11708.5	11801.2	11765.5	11641.9	11497.0	11009.7
45°	11575.4	11582.5	11668.1	11777.4	11905.8	12065.0	12119.7	11917.7	11806.0	11815.5	11516.0
47.5°	11931.9	11939.1	12138.7	12321.7	12400.2	12450.1	12426.3	12145.8	12088.8	12195.8	11905.8
50°	11979.5	12017.5	12362.1	12737.7	12932.6	12939.7	12873.2	12530.9	12514.3	12635.5	12114.9
52.5°	11989.0	12027.0	12457.2	13134.6	13640.9	13747.9	13671.8	13315.3	13141.8	13020.5	12371.6
55°	11953.3	11996.1	12471.5	13400.8	14370.6	14798.4	14805.6	14301.7	13747.9	13667.0	13103.7
57.5°	10553.3	10570.0	11306.8	12723.4	14342.1	15554.3	15647.0	14962.4	14330.2	14254.1	13690.8
60°	7351.7	7418.2	8219.2	10089.8	12048.4	14185.2	14484.7	14285.0	13862.0	13308.1	11746.5
62.5°	3681.8	3738.8	4542.2	6310.6	8309.6	9997.1	10318.0	10529.6	10629.4	10035.2	7998.2
65°	1585.4	1628.2	2127.3	3296.7	4703.8	5519.1	5630.8	5885.1	6507.9	5806.7	4309.3
67.5°	1060.1	1088.6	1342.9	2010.8	2771.4	2823.7	2807.1	2861.8	2997.2	2474.3	1946.7
70°	812.9	836.7	1007.8	1473.7	1991.8	1704.2	1613.9	1464.2	1590.1	1621.0	1578.2
72.5°	589.5	608.5	736.8	1005.4	1247.9	1088.6	1074.3	1150.4	1321.5	1369.1	1342.9
75°	380.3	389.8	468.2	551.4	644.1	698.8	727.3	865.2	1038.7	1074.3	1043.4
77.5°	254.3	261.5	306.6	354.2	366.0	368.4	377.9	439.7	558.6	625.1	618.0
80°	133.1	133.1	149.7	149.7	171.1	204.4	213.9	254.3	309.0	342.3	344.6
82.5°	52.3	54.7	64.2	71.3	85.6	104.6	111.7	133.1	161.6	185.4	206.8
85°	21.4	23.8	26.1	30.9	38.0	47.5	49.9	57.0	76.1	95.1	107.0
87.5°	0.0	0.0	2.4	2.4	4.8	7.1	7.1	9.5	11.9	21.4	28.5
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°	5248.1	5248.1	5248.1	5248.1	5248.1	5248.1	5248.1	5248.1	5248.1	5248.1	5248.1
2.5°	5264.8	5233.9	5264.8	5274.3	5300.4	5309.9	5293.3	5290.9	5290.9	5267.2	5260.0
5°	5300.4	5271.9	5302.8	5317.1	5355.1	5378.9	5383.6	5402.6	5414.5	5405.0	5402.6
7.5°	5388.4	5352.7	5386.0	5407.4	5457.3	5495.3	5512.0	5554.8	5585.7	5580.9	5578.5
10°	5542.9	5495.3	5533.4	5569.0	5623.7	5668.9	5671.2	5695.0	5725.9	5716.4	5711.6
12.5°	5721.1	5676.0	5718.8	5754.4	5818.6	5837.6	5806.7	5797.2	5802.0	5790.1	5780.6
15°	5939.8	5875.6	5913.7	5954.1	5989.7	5968.3	5901.8	5875.6	5873.3	5856.6	5847.1
17.5°	6158.5	6077.7	6106.2	6127.6	6111.0	6044.4	5961.2	5916.0	5894.7	5861.4	5851.9
20°	6374.8	6272.6	6267.8	6251.2	6175.1	6053.9	5942.2	5851.9	5797.2	5752.0	5735.4
22.5°	6622.0	6479.4	6408.1	6332.0	6165.6	5968.3	5799.6	5671.2	5583.3	5526.2	5507.2
25°	6888.2	6686.2	6538.8	6386.7	6070.5	5785.3	5550.0	5374.1	5269.5	5207.7	5186.3
27.5°	7152.0	6873.9	6652.9	6393.8	5880.4	5521.5	5205.4	4967.7	4863.1	4813.2	4796.5
30°	7508.6	7123.5	6788.4	6301.1	5630.8	5155.4	4760.9	4520.8	4451.9	4416.2	4402.0
32.5°	7919.8	7439.6	6969.0	6106.2	5312.3	4727.6	4311.7	4145.3	4097.7	4028.8	4026.4
35°	8461.7	7891.2	7140.1	5818.6	4910.6	4268.9	3967.0	3848.2	3762.6	3653.3	3643.8
37.5°	9093.9	8454.6	7232.8	5452.6	4442.4	3890.9	3710.3	3577.2	3439.3	3294.4	3275.3
40°	9747.6	9112.9	7240.0	5020.0	3983.6	3641.4	3489.3	3315.7	3144.6	2983.0	2961.6
42.5°	10434.5	9726.2	7114.0	4520.8	3608.1	3425.1	3270.6	3051.9	2859.4	2750.0	2738.2
45°	11047.7	10220.6	6828.8	3995.5	3330.0	3244.4	3047.2	2811.8	2709.6	2631.2	2614.6
47.5°	11530.2	10548.6	6443.7	3524.9	3104.2	3059.0	2802.3	2681.1	2602.7	2531.4	2514.7
50°	11767.9	10622.3	5942.2	3142.2	2895.0	2840.4	2664.5	2571.8	2519.5	2462.4	2448.2
52.5°	12062.7	10705.5	5509.6	2821.4	2690.6	2616.9	2550.4	2476.7	2438.7	2403.0	2391.1
55°	12740.1	11019.2	5281.4	2564.7	2495.7	2462.4	2452.9	2391.1	2379.3	2355.5	2334.1
57.5°	13015.8	10817.2	4741.9	2355.5	2341.2	2346.0	2369.7	2312.7	2300.8	2272.3	2258.0
60°	10467.8	8176.5	3211.2	2174.8	2212.9	2243.8	2267.5	2210.5	2193.9	2189.1	2170.1
62.5°	6707.5	5029.5	2241.4	2006.1	2063.1	2101.2	2115.4	2060.8	2048.9	2086.9	2089.3
65°	3491.6	2740.5	1818.3	1825.4	1873.0	1930.0	1958.5	1939.5	1934.8	1975.2	1977.6
67.5°	1782.7	1675.7	1585.4	1611.5	1649.6	1723.2	1789.8	1873.0	1901.5	1906.3	1908.6
70°	1518.8	1471.3	1426.1	1442.8	1483.2	1523.6	1587.8	1628.2	1580.6	1568.7	1564.0
72.5°	1293.0	1257.4	1236.0	1255.0	1276.4	1269.3	1250.2	1269.3	1276.4	1278.8	1281.1
75°	1005.4	979.3	962.6	965.0	965.0	938.9	903.2	881.8	858.1	839.0	839.0
77.5°	615.6	620.4	637.0	634.6	632.2	622.7	587.1	568.1	511.0	494.4	494.4
80°	351.8	358.9	375.5	380.3	380.3	368.4	332.8	311.4	285.2	273.3	271.0
82.5°	213.9	223.4	232.9	237.7	240.1	225.8	194.9	178.3	164.0	152.1	152.1
85°	111.7	116.5	126.0	128.4	121.2	107.0	90.3	83.2	68.9	66.6	66.6
87.5°	30.9	33.3	38.0	30.9	28.5	21.4	11.9	9.5	4.8	2.4	2.4
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)