

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: P641440

Luminaire Tested: GWS-SA5F-830-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-830-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR 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: 28239.9 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

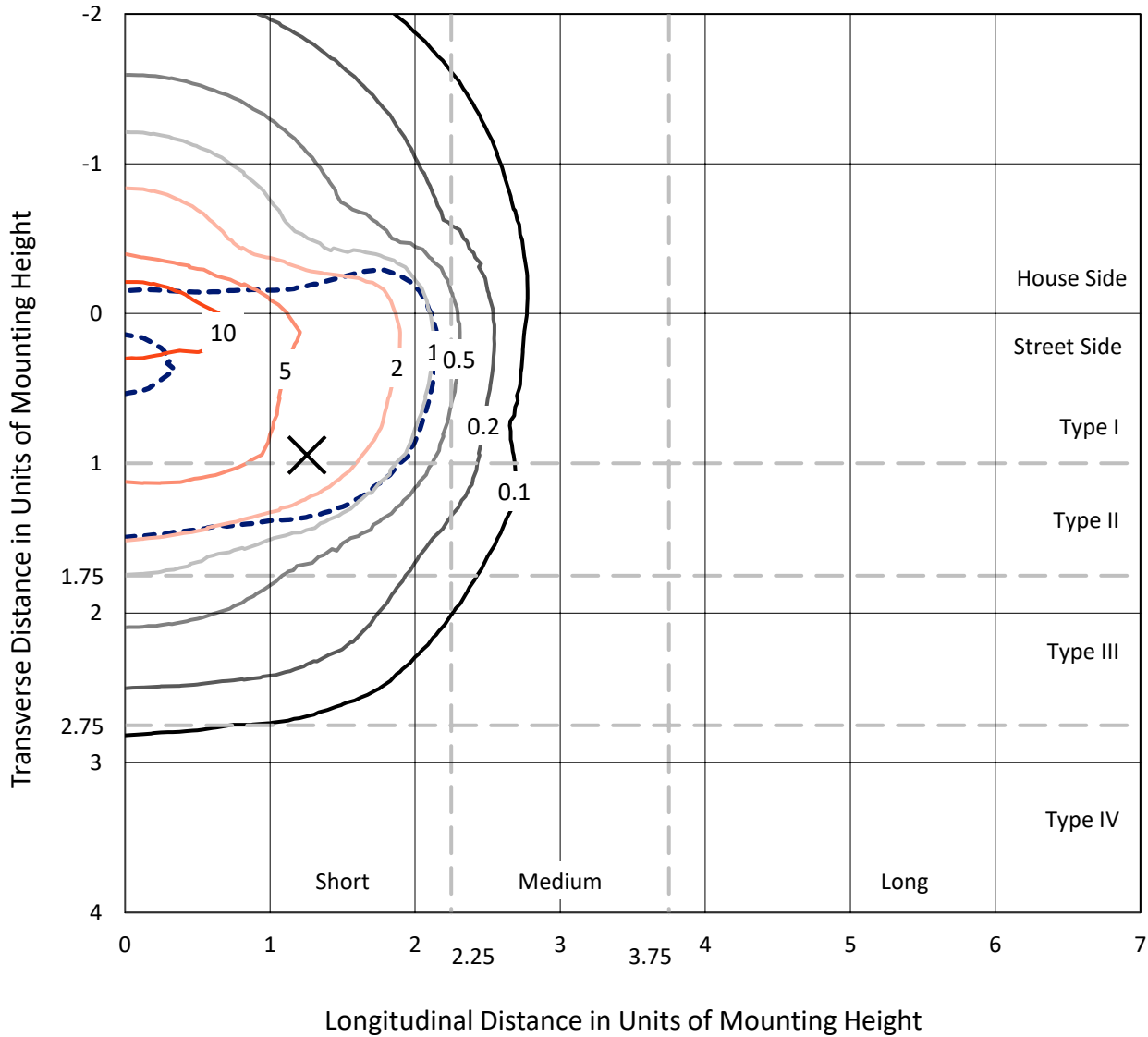
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

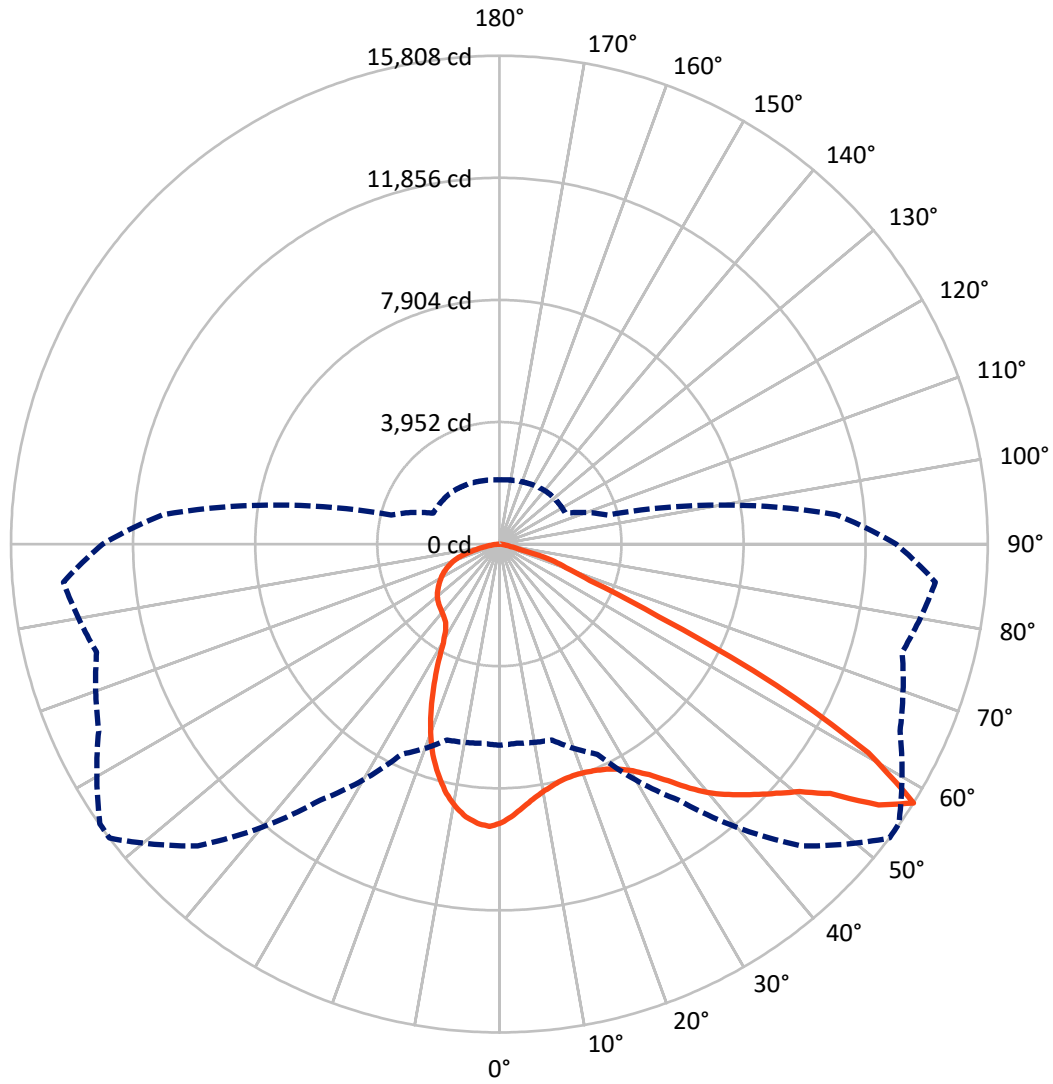
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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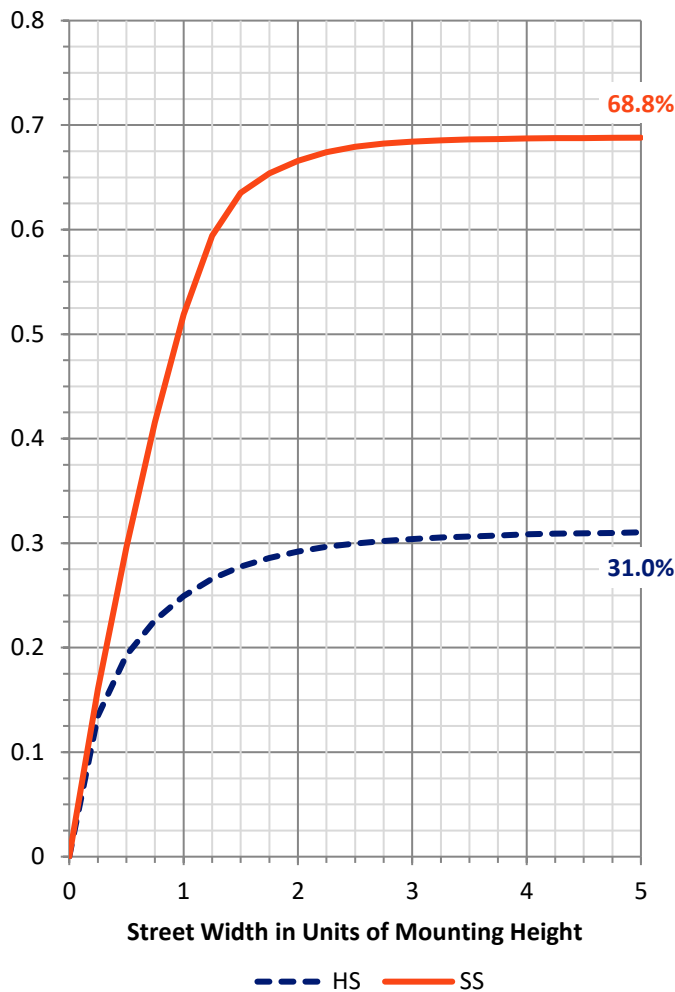
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8829.6	0.0	8829.6
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	19410.3	0.0	19410.3
	% Fixture	68.7	0.0	68.7
Total	Lumens	28239.9	0.0	28239.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	815.5	2.9
10°-20°	2139.4	7.6
20°-30°	3152.1	11.2
30°-40°	4412.2	15.6
40°-50°	5800.1	20.5
50°-60°	6800.6	24.1
60°-70°	4006.3	14.2
70°-80°	996.6	3.5
80°-90°	116.9	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°	28239.9	100.0
0°-180°	28239.9	100.0

Coefficient of Utilization



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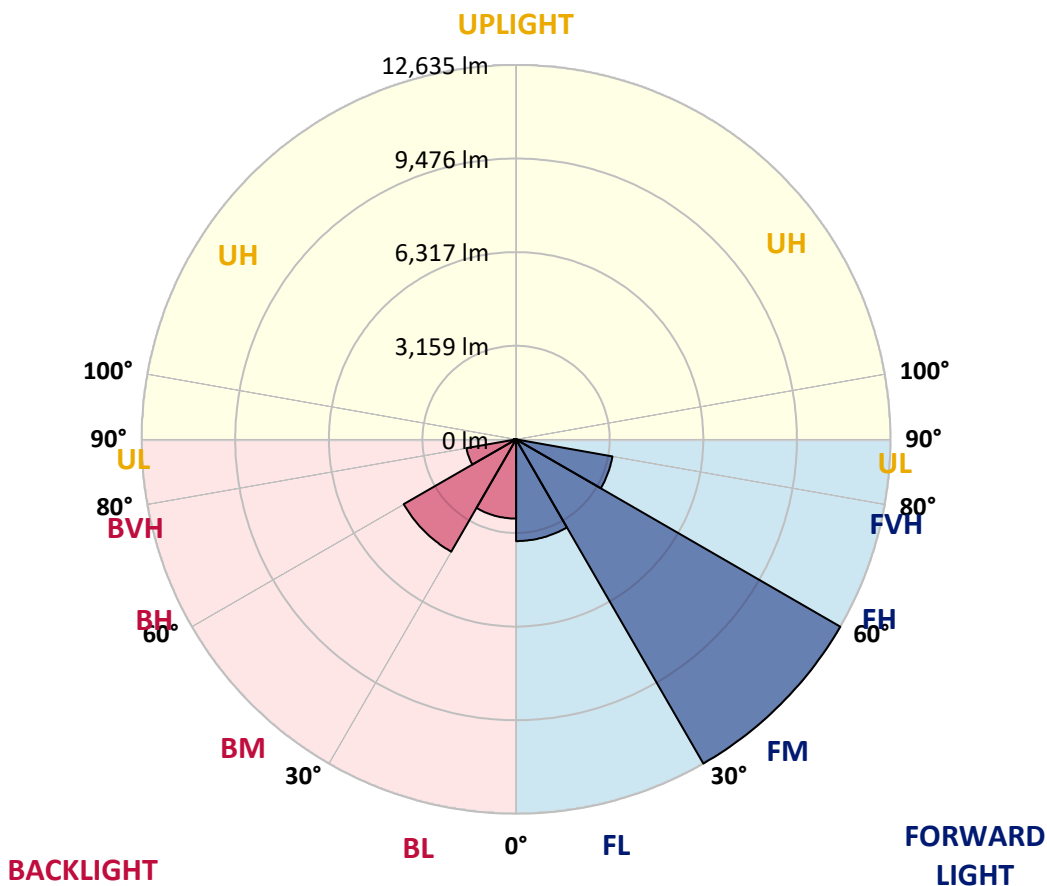
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3433.4	12.2			
FM (30°-60°)	12634.8	44.7			
FH (60°-80°)	3303.0	11.7			G2/5000
FVH (80°-90°)	39.1	0.1			G1/100
BL (0°-30°)	2673.6	9.5	B4/5000		
BM (30°-60°)	4378.2	15.5	B3/5000		
BH (60°-80°)	1700.0	6.0	B3/2500		G3/2500
BVH (80°-90°)	77.8	0.3			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9017.8	9017.8	9017.8	9017.8	9017.8	9017.8	9017.8	9017.8	9017.8	9017.8	9017.8
2.5°	8499.6	8523.4	8528.1	8601.8	8606.6	8713.5	8784.8	8770.6	8844.3	8934.6	9005.9
5°	8093.2	8095.5	8119.3	8207.3	8254.8	8395.0	8513.9	8513.9	8656.5	8841.9	9001.1
7.5°	7758.0	7755.7	7777.0	7874.5	7952.9	8121.7	8283.3	8302.3	8502.0	8772.9	9032.0
10°	7446.7	7463.3	7487.1	7605.9	7705.7	7914.9	8107.4	8138.3	8390.3	8725.4	9074.8
12.5°	7247.0	7249.4	7285.0	7418.1	7546.5	7769.9	7971.9	8010.0	8300.0	8680.3	9105.7
15°	7118.7	7121.0	7159.1	7306.4	7456.2	7682.0	7888.8	7931.5	8247.7	8673.1	9165.1
17.5°	7061.6	7059.2	7094.9	7242.3	7406.3	7641.6	7862.6	7914.9	8271.4	8727.8	9269.7
20°	7061.6	7064.0	7083.0	7216.1	7382.5	7632.1	7888.8	7952.9	8364.1	8851.4	9431.3
22.5°	7161.4	7171.0	7180.5	7270.8	7401.5	7646.3	7957.7	8043.3	8563.8	9058.2	9642.9
25°	7356.3	7358.7	7368.2	7441.9	7501.3	7686.7	8071.8	8200.1	8875.2	9360.0	9909.1
27.5°	7617.8	7651.1	7660.6	7708.1	7708.1	7786.6	8250.0	8435.4	9295.9	9795.0	10249.0
30°	7983.8	7995.7	8012.4	8064.6	8007.6	7974.3	8511.5	8749.2	9783.1	10320.3	10657.8
32.5°	8304.7	8330.9	8421.2	8506.7	8404.5	8300.0	8896.5	9177.0	10251.3	10867.0	11092.8
35°	8578.0	8642.2	8815.7	9005.9	8934.6	8830.0	9407.6	9699.9	10636.4	11259.1	11477.8
37.5°	8908.4	8958.3	9196.0	9505.0	9569.2	9519.3	10030.3	10239.5	10893.1	11359.0	11687.0
40°	9243.6	9319.6	9626.2	10054.1	10298.9	10334.5	10605.5	10745.7	10981.0	11164.1	11646.6
42.5°	9585.8	9716.6	10137.3	10636.4	11071.4	11152.2	11090.4	11149.8	10952.5	10895.5	11458.8
45°	10004.2	10158.7	10634.0	11271.0	11843.8	11969.8	11565.7	11511.1	10947.8	10793.3	11342.3
47.5°	10498.5	10653.0	11107.0	11848.6	12580.7	12673.4	12053.0	11953.2	11114.1	10950.1	11499.2
50°	10935.9	11042.8	11449.3	12278.8	13267.6	13322.2	12590.2	12468.9	11527.7	11385.1	11988.8
52.5°	10491.4	10479.5	10907.4	11929.4	13624.1	14282.5	13417.3	13300.8	12326.3	12107.7	12747.0
55°	8901.3	8765.8	9148.5	10153.9	12628.2	15135.8	14900.5	14667.5	13391.2	12835.0	13457.7
57.5°	6507.8	6469.8	6562.5	7506.1	10115.9	13814.2	15808.4	15787.0	14311.0	13500.5	14166.0
60°	5088.8	5031.8	4784.6	4810.7	6895.2	10790.9	13719.2	14349.0	14881.4	13899.8	14660.4
62.5°	4518.4	4475.6	4347.3	3993.1	4107.2	7235.1	10056.4	10634.0	13003.7	12276.4	12592.5
65°	3741.2	3729.3	3836.2	3822.0	3441.7	3995.5	5675.9	6258.2	8176.4	8278.6	8176.4
67.5°	2719.1	2697.7	2968.7	3503.5	3313.3	3016.2	3163.6	3365.6	4192.8	3764.9	3389.4
70°	1768.4	1737.5	1894.3	2531.3	2966.3	2628.8	2279.4	2246.1	2305.5	1433.2	1549.7
72.5°	1186.0	1150.4	1148.0	1392.8	1792.1	1770.8	1766.0	1749.4	1561.6	1131.4	1255.0
75°	660.8	632.2	625.1	601.3	641.7	653.6	696.4	720.2	779.6	858.0	950.7
77.5°	111.7	109.3	137.9	175.9	242.4	311.4	385.0	406.4	501.5	594.2	653.6
80°	61.8	64.2	83.2	102.2	135.5	185.4	237.7	251.9	309.0	358.9	406.4
82.5°	33.3	33.3	42.8	54.7	73.7	97.5	128.3	140.2	178.3	209.2	242.4
85°	11.9	11.9	16.6	21.4	30.9	40.4	49.9	57.0	78.4	107.0	121.2
87.5°	0.0	0.0	0.0	0.0	2.4	4.8	9.5	9.5	11.9	21.4	30.9
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°	9017.8	9017.8	9017.8	9017.8	9017.8	9017.8	9017.8	9017.8	9017.8	9017.8	9017.8
2.5°	9065.3	9001.1	9089.1	9129.5	9143.7	9153.2	9091.4	9048.7	9034.4	8989.2	8963.1
5°	9098.6	9055.8	9139.0	9139.0	9079.6	9017.8	8891.8	8803.8	8742.0	8668.4	8656.5
7.5°	9155.6	9124.7	9169.9	9077.2	8927.4	8761.1	8542.4	8371.3	8233.4	8143.1	8145.5
10°	9231.7	9193.6	9158.0	8951.2	8677.9	8371.3	8036.1	7786.6	7558.4	7453.8	7396.8
12.5°	9281.6	9226.9	9077.2	8734.9	8333.2	7922.0	7449.0	7078.3	6747.9	6598.1	6586.2
15°	9343.4	9243.6	8944.1	8454.4	7895.9	7335.0	6726.5	6210.7	5763.9	5530.9	5519.0
17.5°	9424.2	9260.2	8784.8	8133.6	7434.8	6607.6	5842.3	5193.4	4718.0	4537.4	4568.3
20°	9538.3	9279.2	8604.2	7777.0	6862.0	5780.5	4827.4	4230.8	4047.8	4035.9	4012.1
22.5°	9666.6	9291.1	8404.5	7377.7	6167.9	4898.7	3988.4	3734.0	3731.7	3791.1	3805.3
25°	9811.6	9300.6	8178.7	6911.9	5416.8	4019.3	3527.2	3451.2	3510.6	3622.3	3636.6
27.5°	9997.0	9319.6	7905.4	6400.9	4618.2	3472.6	3272.9	3253.9	3325.2	3429.8	3425.0
30°	10270.4	9388.6	7615.4	5813.8	3798.2	3213.5	3118.4	3120.8	3149.3	3199.2	3206.4
32.5°	10548.5	9495.5	7332.6	5153.0	3327.6	3066.1	3023.4	3018.6	3018.6	3040.0	3044.7
35°	10812.3	9616.7	7026.0	4463.7	3099.4	2980.6	2952.0	2937.8	2930.7	2925.9	2918.8
37.5°	10959.6	9676.2	6726.5	3783.9	2978.2	2923.5	2895.0	2876.0	2849.8	2830.8	2826.1
40°	10895.5	9607.2	6379.5	3275.3	2904.5	2868.9	2835.6	2809.4	2773.8	2757.1	2747.6
42.5°	10681.6	9393.3	6001.5	3035.2	2845.1	2809.4	2769.0	2726.2	2702.5	2688.2	2685.8
45°	10455.8	9134.2	5545.2	2895.0	2788.0	2745.3	2697.7	2650.2	2624.0	2616.9	2614.5
47.5°	10448.6	9005.9	5060.3	2783.3	2719.1	2676.3	2616.9	2569.4	2540.9	2531.3	2521.8
50°	10762.4	9136.6	4513.6	2685.8	2647.8	2602.6	2536.1	2483.8	2448.2	2436.3	2433.9
52.5°	11413.6	9628.6	4024.0	2588.4	2552.7	2500.4	2445.8	2393.5	2350.7	2329.3	2326.9
55°	12117.2	10253.7	3719.8	2488.6	2441.0	2395.9	2345.9	2288.9	2241.4	2208.1	2203.3
57.5°	12844.5	10935.9	3627.1	2362.6	2326.9	2296.0	2236.6	2174.8	2120.1	2089.2	2082.1
60°	13443.5	11523.0	3800.6	2229.5	2210.5	2170.1	2115.4	2056.0	2017.9	1994.2	1989.4
62.5°	11254.4	9381.4	3068.5	2084.5	2084.5	2041.7	1979.9	1937.1	1911.0	1894.3	1889.6
65°	7142.4	5809.0	2094.0	1939.5	1937.1	1880.1	1827.8	1799.3	1787.4	1761.2	1756.5
67.5°	3111.3	2654.9	1789.8	1792.1	1782.6	1720.8	1668.5	1647.2	1623.4	1594.9	1592.5
70°	1613.9	1644.8	1602.0	1628.1	1611.5	1537.8	1487.9	1454.6	1404.7	1376.2	1378.6
72.5°	1302.5	1335.8	1383.3	1423.7	1388.1	1328.7	1250.2	1209.8	1145.6	1114.7	1117.1
75°	993.5	1029.2	1074.3	1117.1	1088.6	1014.9	965.0	924.6	850.9	815.3	822.4
77.5°	684.5	703.5	758.2	755.8	746.3	724.9	651.3	603.7	527.7	484.9	489.6
80°	425.5	437.3	463.5	475.4	470.6	442.1	382.7	347.0	301.9	275.7	278.1
82.5°	256.7	263.8	287.6	290.0	287.6	266.2	221.0	194.9	166.4	152.1	152.1
85°	130.7	135.5	149.7	149.7	135.5	114.1	102.2	90.3	73.7	66.6	66.6
87.5°	35.7	35.7	45.2	38.0	30.9	28.5	14.3	11.9	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)