

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: P640801

Luminaire Tested: GWS-SA5E-750-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-750-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

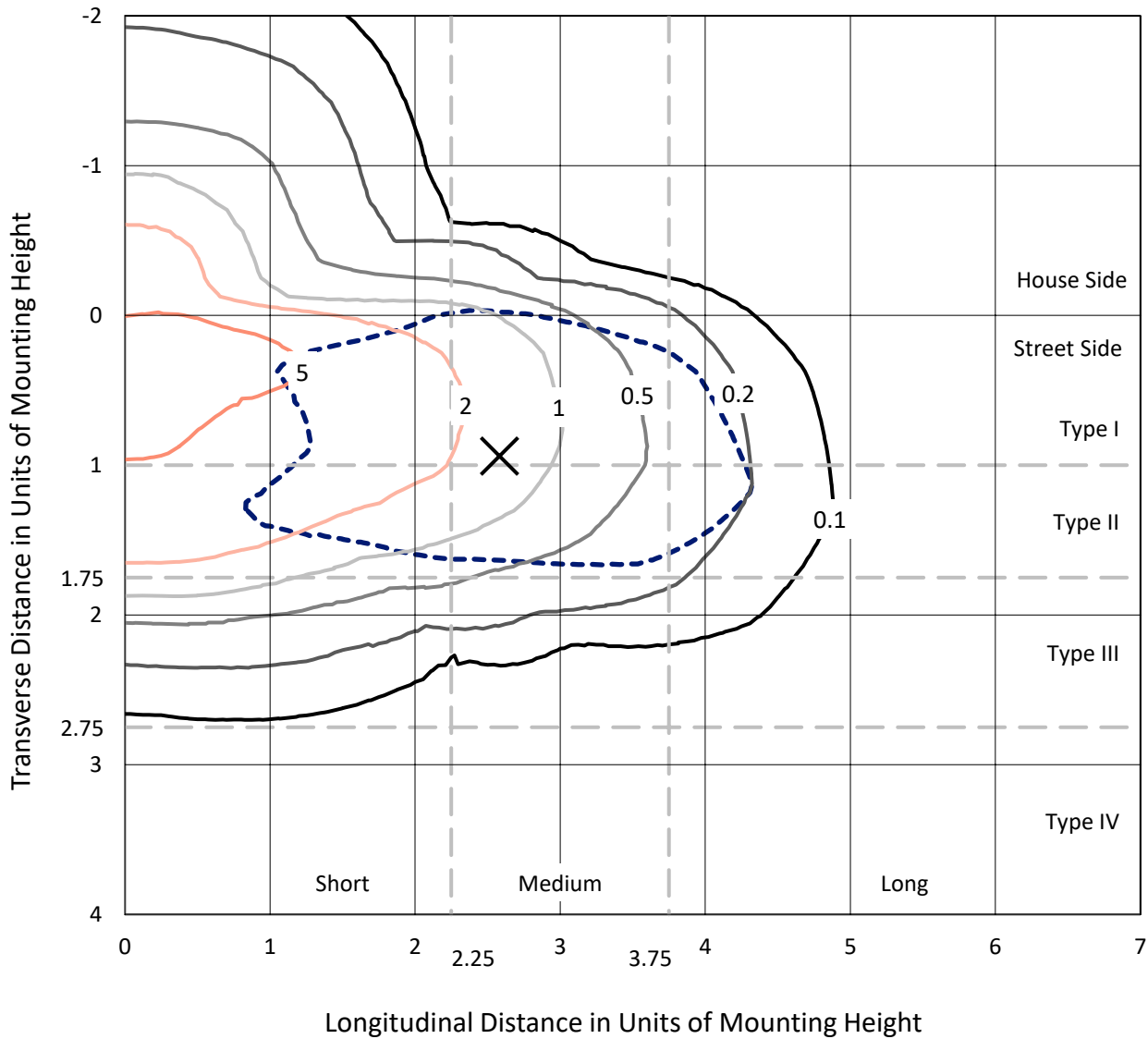
Lumens per Lamp: N/A  
Luminaire Lumens: 38099.4 lumens  
Efficiency: N/A  
Efficacy: 141.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

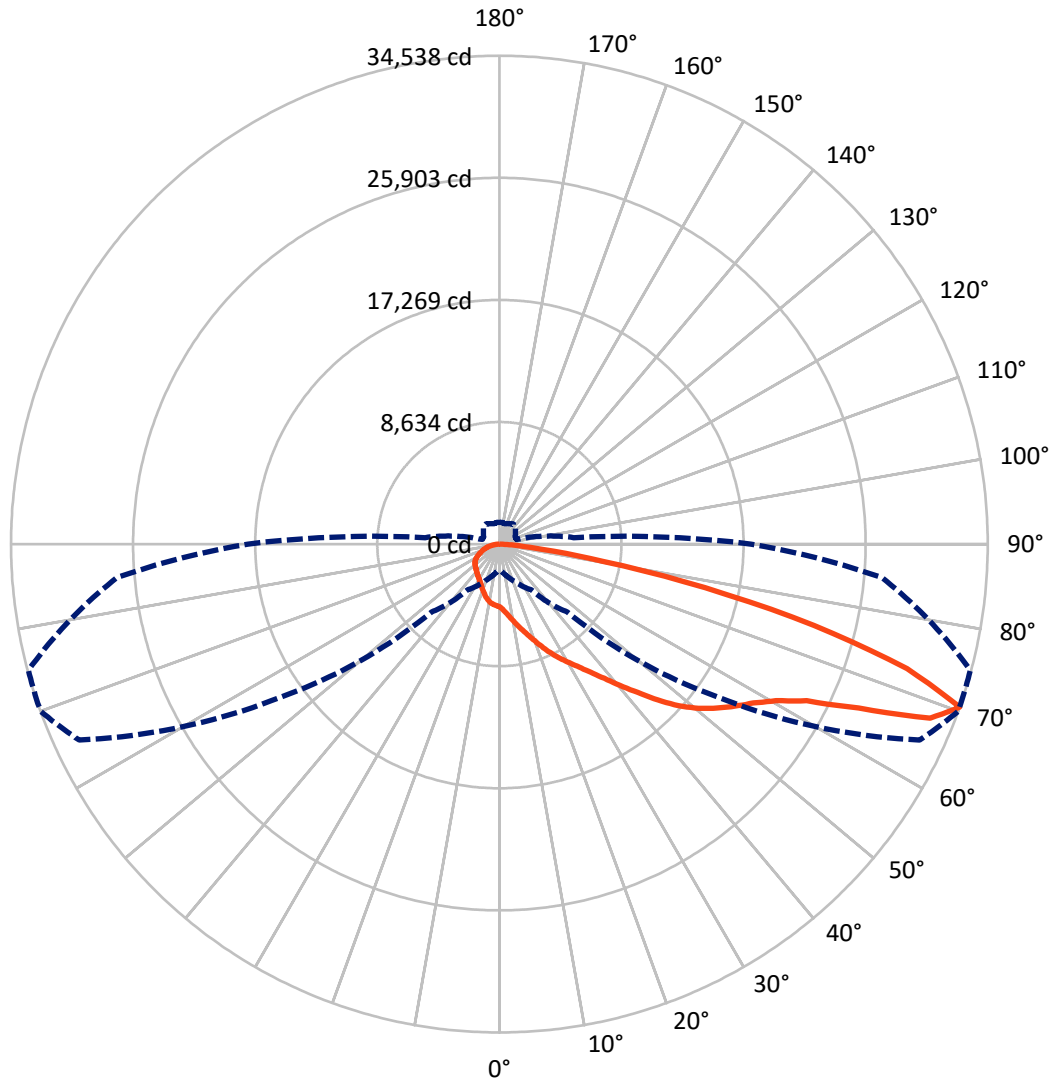
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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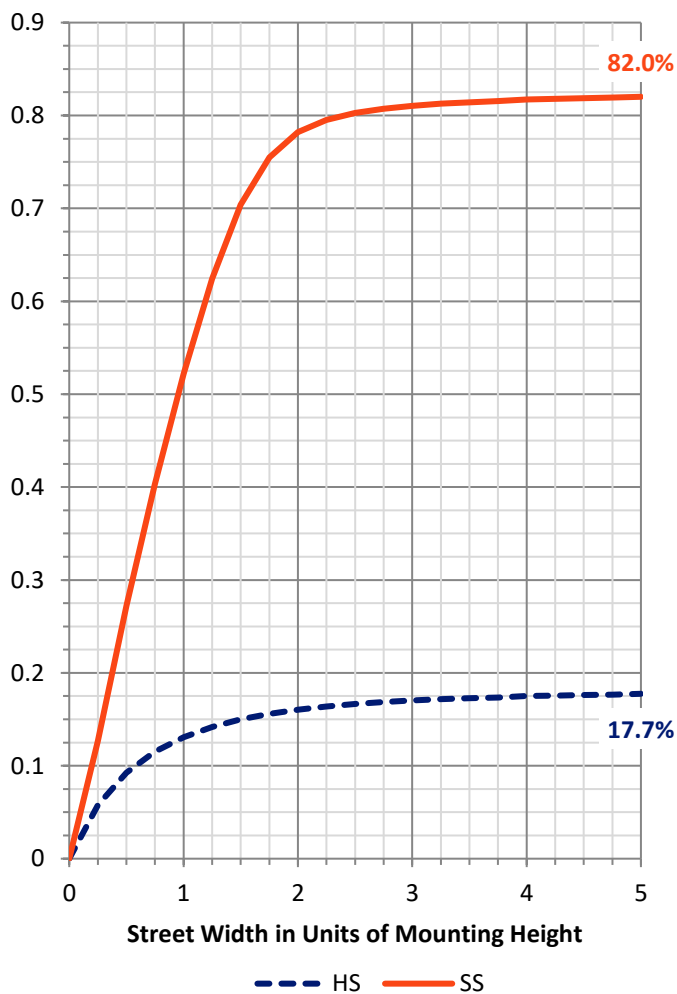
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6827.5	0.0	6827.5
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	31271.9	0.0	31271.9
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	38099.4	0.0	38099.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.6	1.2
10°-20°	1469.1	3.9
20°-30°	2602.5	6.8
30°-40°	3916.8	10.3
40°-50°	5925.6	15.6
50°-60°	8488.8	22.3
60°-70°	9383.4	24.6
70°-80°	5295.3	13.9
80°-90°	566.4	1.5
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°	38099.4	100.0
0°-180°	38099.4	100.0

**Coefficient of Utilization**



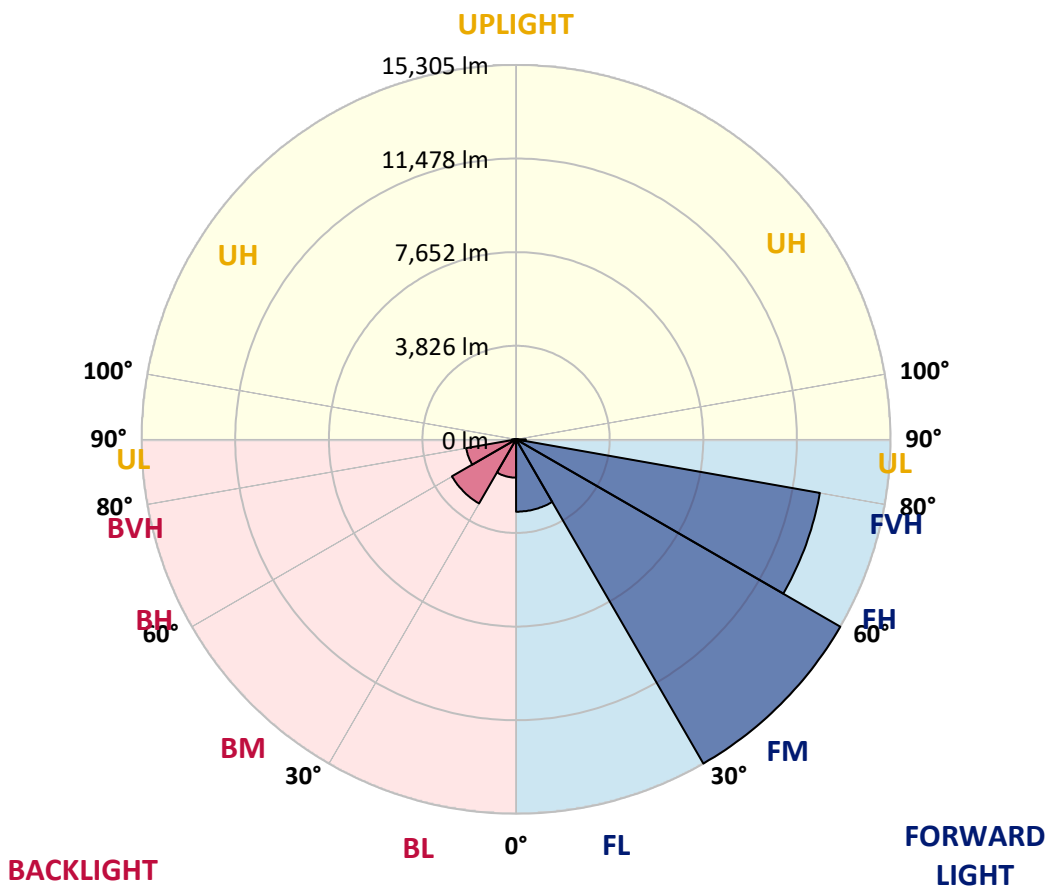
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2957.7	7.8			
FM (30°-60°)	15304.5	40.2			
FH (60°-80°)	12609.3	33.1			G5
FVH (80°-90°)	400.4	1.1			G3/500
BL (0°-30°)	1565.5	4.1	B3/2500		
BM (30°-60°)	3026.7	7.9	B3/5000		
BH (60°-80°)	2069.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	166.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2
2.5°	4922.2	4913.9	4919.4	4913.9	4883.6	4809.3	4748.8	4671.7	4619.4	4589.1	4517.5
5°	5500.3	5492.0	5472.8	5445.2	5390.2	5288.3	5136.9	4969.0	4867.1	4790.0	4638.6
7.5°	5916.0	5916.0	5913.2	5880.2	5841.7	5734.3	5555.4	5335.1	5186.5	5054.3	4806.6
10°	6128.0	6141.7	6161.0	6207.8	6199.5	6141.7	5973.8	5737.0	5549.8	5395.7	5026.8
12.5°	6243.6	6251.8	6284.9	6381.2	6480.3	6494.1	6395.0	6147.2	5943.5	5737.0	5271.8
15°	6392.2	6395.0	6439.0	6554.7	6700.6	6846.5	6821.7	6573.9	6364.7	6136.2	5544.3
17.5°	6507.9	6527.1	6607.0	6741.8	6923.5	7124.5	7245.6	7091.5	6832.7	6571.2	5841.7
20°	6549.1	6562.9	6667.5	6874.0	7121.7	7405.3	7675.1	7633.8	7372.3	7063.9	6177.5
22.5°	6697.8	6697.8	6774.9	6948.3	7240.1	7653.1	8090.8	8198.1	7966.9	7606.3	6538.1
25°	7025.4	7014.4	7050.2	7121.7	7342.0	7851.3	8501.0	8823.0	8564.3	8159.6	6898.8
27.5°	7474.1	7468.6	7465.9	7476.9	7551.2	8024.7	8847.8	9406.7	9147.9	8690.9	7220.9
30°	7961.4	7944.9	7980.7	7947.6	7931.1	8231.2	9142.4	9929.7	9728.7	9216.7	7487.9
32.5°	8624.8	8594.6	8586.3	8478.9	8412.9	8553.3	9379.1	10524.3	10364.7	9783.8	7788.0
35°	9500.3	9472.7	9332.3	9161.6	8966.2	9032.3	9673.7	11105.2	11116.2	10494.1	8181.6
37.5°	10383.9	10389.4	10279.3	9877.4	9676.4	9637.9	10122.4	11812.7	12049.4	11341.9	8690.9
40°	11119.0	11152.0	11152.0	10728.0	10428.0	10392.2	10752.8	12652.3	13123.1	12382.5	9335.1
42.5°	11677.8	11708.1	11804.4	11498.9	11182.3	11306.2	11518.1	13494.7	14339.9	13668.1	10149.9
45°	12291.7	12316.5	12368.8	12192.6	12008.1	12338.5	12385.3	14502.3	15732.8	15110.7	11096.9
47.5°	13106.6	13084.5	13090.0	12960.6	12817.5	13351.6	13340.5	15350.2	17079.0	16690.8	12123.8
50°	14119.6	14160.9	14122.4	13866.4	13698.4	14185.7	14249.0	16288.9	18262.7	18254.5	13158.9
52.5°	15094.1	15110.7	15314.4	15325.4	14981.3	14879.4	15044.6	17235.9	19262.0	19686.0	14152.7
55°	15143.7	15207.0	15818.2	16258.6	16814.7	15997.1	15848.4	18138.9	20228.3	21087.2	15185.0
57.5°	14089.3	14191.2	15229.0	16178.8	17725.9	17915.9	17224.9	19306.1	21194.6	22466.4	16379.7
60°	11837.5	12049.4	13458.9	14912.5	17315.7	19295.1	20041.1	20891.8	22463.7	23875.9	17830.5
62.5°	7559.5	7642.0	9618.6	12052.2	15468.5	19160.2	23107.8	23685.9	24396.2	25712.1	20065.9
65°	3785.2	4049.5	5208.5	7193.3	11154.7	16883.5	24657.7	28803.6	27933.7	28855.9	23688.7
67.5°	2568.5	2653.8	3240.2	4322.1	6540.9	11961.3	23697.0	33114.6	32858.6	33010.0	27551.0
70°	1894.0	1949.1	2411.5	3061.2	3955.9	6791.4	18865.6	32789.8	34537.9	34482.8	27146.3
72.5°	1382.0	1409.5	1759.1	2337.2	2931.8	3512.7	11520.9	26488.4	30149.7	31738.2	23741.0
75°	1004.8	1037.8	1222.3	1748.1	2279.4	2191.3	5687.5	19132.6	22992.2	26047.9	19341.9
77.5°	748.8	790.1	875.4	1095.7	1596.7	1569.2	2458.3	12423.8	14871.2	17012.9	11749.4
80°	539.6	547.8	597.4	702.0	1013.1	919.5	1170.0	6477.6	7427.3	8137.6	4605.6
82.5°	327.6	335.9	399.2	432.2	627.7	578.1	608.4	2097.7	3006.2	3190.6	1720.6
85°	96.4	101.9	181.7	198.2	261.5	247.8	245.0	853.4	1018.6	1302.1	677.2
87.5°	0.0	0.0	0.0	0.0	2.8	16.5	30.3	151.4	228.5	316.6	165.2
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°	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2
2.5°	4490.0	4426.7	4393.6	4335.8	4294.5	4253.2	4211.9	4173.4	4156.9	4132.1	4137.6
5°	4569.8	4470.7	4371.6	4258.7	4162.4	4082.5	4011.0	3947.7	3920.1	3895.4	3906.4
7.5°	4690.9	4542.3	4352.3	4145.9	3994.5	3884.3	3810.0	3766.0	3752.2	3732.9	3732.9
10°	4845.1	4622.1	4289.0	3994.5	3812.8	3724.7	3691.6	3688.9	3702.6	3705.4	3699.9
12.5°	5015.8	4699.2	4195.4	3815.5	3661.4	3633.8	3658.6	3705.4	3752.2	3777.0	3771.5
15°	5192.0	4748.8	4035.7	3644.8	3551.2	3587.0	3666.9	3760.5	3851.3	3898.1	3895.4
17.5°	5357.1	4759.8	3829.3	3479.7	3454.9	3545.7	3683.4	3829.3	3953.2	4019.2	4022.0
20°	5541.6	4740.5	3617.3	3331.0	3358.5	3507.2	3688.9	3865.1	4011.0	4077.0	4093.6
22.5°	5709.5	4674.4	3410.8	3190.6	3275.9	3460.4	3644.8	3810.0	3939.4	4002.7	4024.7
25°	5860.9	4547.8	3185.1	3072.2	3212.6	3394.3	3534.7	3650.3	3741.2	3779.7	3810.0
27.5°	5943.5	4357.8	3014.4	2978.6	3152.1	3300.7	3377.8	3413.6	3443.9	3432.9	3454.9
30°	5960.0	4121.1	2865.8	2904.3	3061.2	3171.3	3187.9	3152.1	3099.8	3014.4	3033.7
32.5°	5943.5	3848.6	2741.9	2824.5	2959.4	3025.4	3003.4	2909.8	2783.2	2651.0	2659.3
35°	5949.0	3573.3	2640.0	2736.4	2841.0	2876.8	2821.7	2692.3	2557.4	2436.3	2430.8
37.5°	6009.6	3342.0	2554.7	2651.0	2725.4	2730.9	2670.3	2535.4	2466.6	2375.8	2364.7
40°	6177.5	3171.3	2477.6	2565.7	2612.5	2609.7	2540.9	2444.6	2491.4	2461.1	2452.8
42.5°	6452.8	3066.7	2414.3	2474.9	2507.9	2513.4	2458.3	2397.8	2499.6	2461.1	2447.3
45°	6896.0	3061.2	2370.2	2384.0	2436.3	2474.9	2436.3	2367.5	2406.0	2218.8	2183.0
47.5°	7421.8	3154.8	2337.2	2304.2	2395.0	2463.8	2403.3	2293.2	2213.3	2042.7	2017.9
50°	8055.0	3344.8	2306.9	2218.8	2334.5	2422.6	2362.0	2210.6	2089.5	1998.6	1984.8
52.5°	8806.5	3595.3	2268.4	2122.5	2243.6	2400.5	2362.0	2202.3	2042.7	1960.1	1946.3
55°	9593.9	3884.3	2224.3	2006.9	2141.8	2406.0	2381.3	2144.5	2006.9	1962.8	1951.8
57.5°	10571.1	4231.2	2144.5	1872.0	2050.9	2356.5	2304.2	2111.5	1982.1	1946.3	1935.3
60°	11840.2	4746.0	1993.1	1734.3	1946.3	2268.4	2235.4	2056.4	1916.0	1885.7	1877.5
62.5°	13849.8	5618.7	1808.7	1602.2	1822.4	2083.9	2133.5	1951.8	1833.4	1830.7	1827.9
65°	17125.8	6667.5	1591.2	1483.8	1693.0	1932.5	1998.6	1844.4	1748.1	1778.4	1775.6
67.5°	19421.7	6758.4	1412.2	1359.9	1541.6	1767.4	1863.7	1734.3	1629.7	1687.5	1684.8
70°	17789.2	5271.8	1258.1	1230.5	1379.2	1588.4	1717.8	1596.7	1492.1	1547.1	1536.1
72.5°	15003.3	4041.3	1112.2	1095.7	1214.0	1401.2	1530.6	1459.0	1348.9	1348.9	1324.1
75°	12057.7	3333.8	958.0	949.8	1029.6	1211.3	1357.2	1236.1	1134.2	1128.7	1112.2
77.5°	6915.3	2185.8	803.8	798.3	823.1	1013.1	1054.4	1029.6	952.5	916.7	905.7
80°	2755.7	1136.9	633.2	597.4	622.2	743.3	831.4	790.1	724.0	680.0	655.2
82.5°	1068.1	569.9	446.0	390.9	426.7	536.8	602.9	589.1	545.1	446.0	418.4
85°	435.0	278.0	267.0	225.7	247.8	289.1	346.9	300.1	247.8	176.2	167.9
87.5°	115.6	101.9	99.1	60.6	46.8	13.8	2.8	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)