

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: P641363

Luminaire Tested: GWS-SA5F-760-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641363  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-760-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

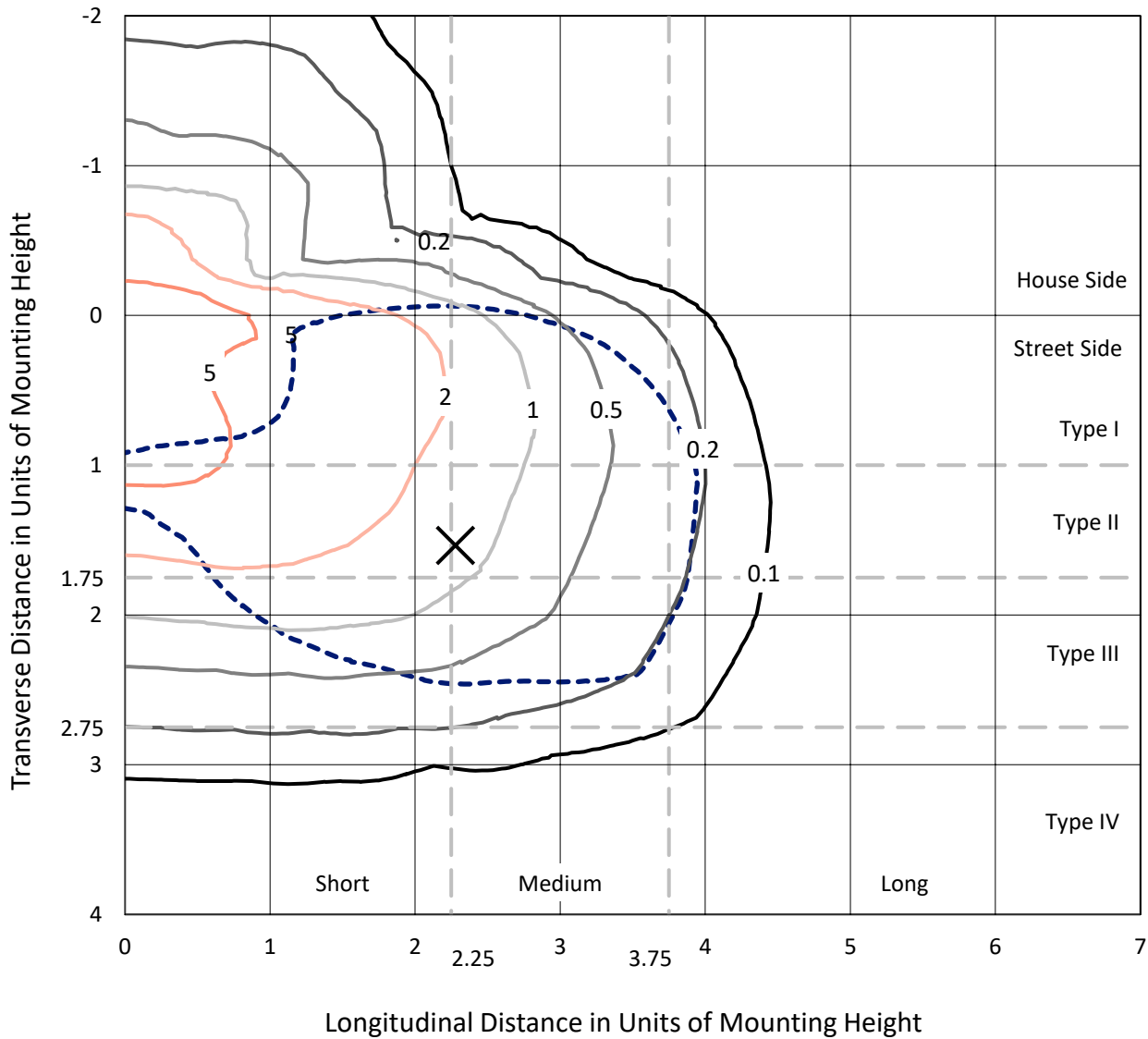
Lumens per Lamp: N/A  
Luminaire Lumens: 42808.5 lumens  
Efficiency: N/A  
Efficacy: 138.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

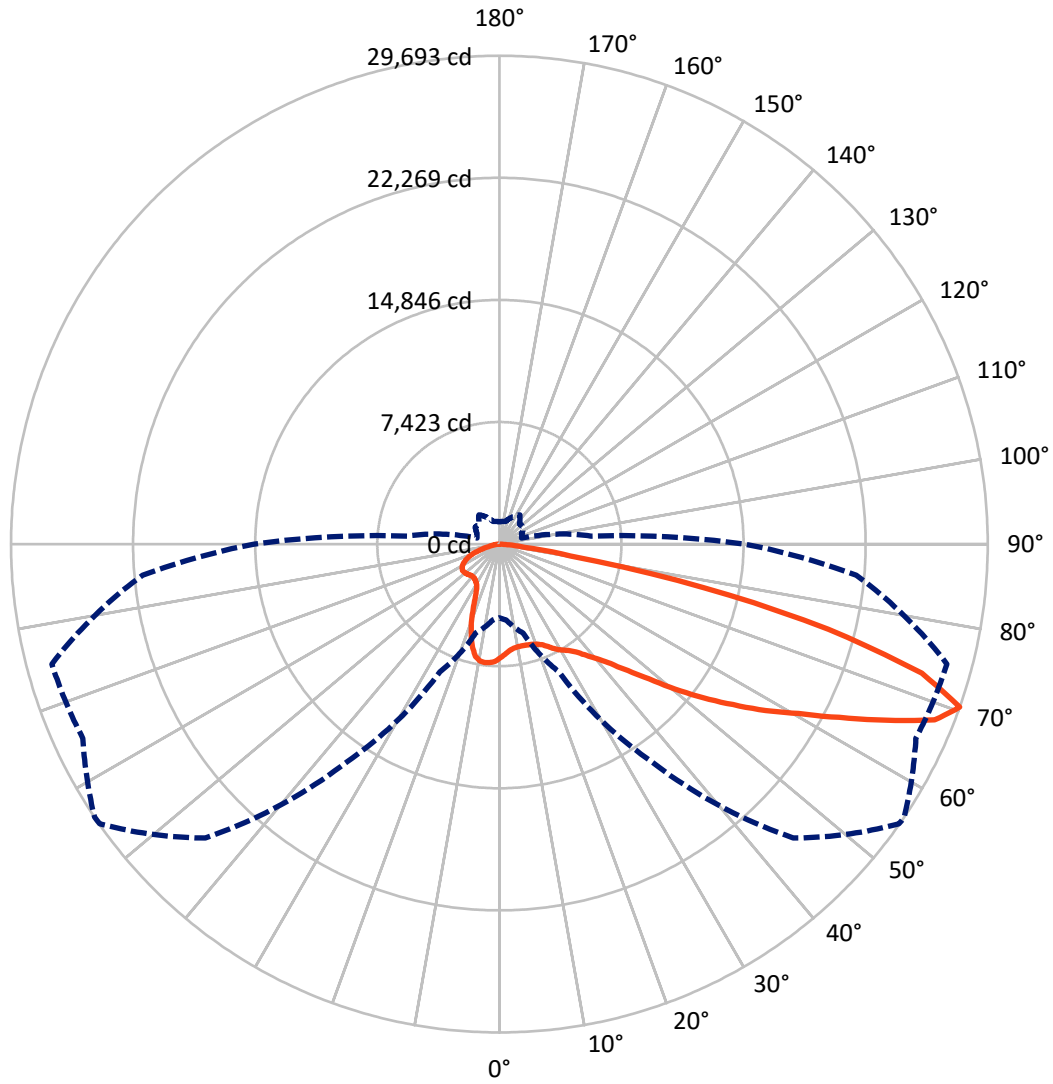
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8230.0	0.0	8230.0
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	34578.5	0.0	34578.5
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	42808.5	0.0	42808.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	639.4	1.5
10°-20°	1732.6	4.0
20°-30°	2864.4	6.7
30°-40°	4282.7	10.0
40°-50°	6373.2	14.9
50°-60°	9060.9	21.2
60°-70°	11222.2	26.2
70°-80°	6196.6	14.5
80°-90°	436.4	1.0
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°	42808.5	100.0
0°-180°	42808.5	100.0

**Coefficient of Utilization**



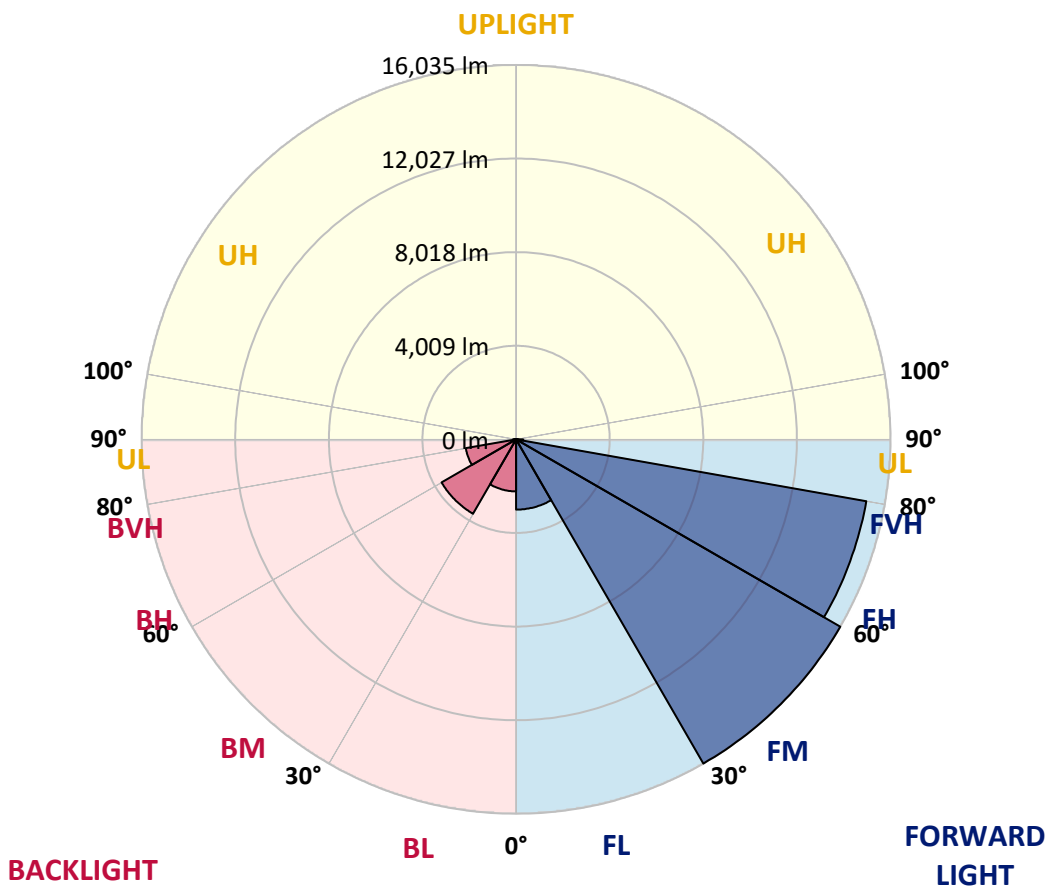
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3008.5	7.0			
FM (30°-60°)	16035.4	37.5			
FH (60°-80°)	15231.3	35.6			G5
FVH (80°-90°)	303.3	0.7			G3/500
BL (0°-30°)	2227.9	5.2	B3/2500		
BM (30°-60°)	3681.4	8.6	B3/5000		
BH (60°-80°)	2187.5	5.1	B3/2500		G3/2500
BVH (80°-90°)	133.2	0.3			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6910.0	6910.0	6910.0	6910.0	6910.0	6910.0	6910.0	6910.0	6910.0	6910.0	6910.0
2.5°	6466.2	6430.0	6472.2	6493.4	6547.7	6626.2	6695.6	6698.6	6734.9	6822.4	6906.9
5°	6173.4	6155.3	6167.3	6230.7	6288.1	6387.7	6493.4	6502.4	6605.1	6777.1	6946.2
7.5°	5947.0	5922.8	5968.1	6049.6	6122.1	6233.7	6372.6	6384.7	6529.6	6789.2	7048.8
10°	5620.9	5602.8	5687.4	5796.0	5953.0	6137.1	6321.3	6336.4	6526.6	6867.7	7229.9
12.5°	5479.1	5479.1	5515.3	5617.9	5790.0	6034.5	6312.2	6336.4	6574.9	6988.4	7462.4
15°	5699.4	5714.5	5684.3	5678.3	5747.7	5980.2	6324.3	6360.5	6665.4	7112.2	7691.8
17.5°	6143.2	6158.3	6079.8	5956.0	5886.6	6031.5	6369.6	6408.8	6762.0	7248.1	7939.3
20°	6765.0	6783.2	6611.1	6420.9	6182.4	6179.4	6457.1	6493.4	6885.8	7396.0	8202.0
22.5°	7492.6	7504.6	7287.3	6985.4	6620.1	6454.1	6608.1	6644.3	7045.8	7601.2	8485.7
25°	8334.8	8371.0	8108.4	7670.7	7175.6	6831.5	6858.6	6900.9	7332.6	7876.0	8820.8
27.5°	9234.4	9279.7	8977.8	8494.8	7812.6	7248.1	7181.6	7217.9	7637.5	8045.0	8998.9
30°	10155.1	10188.3	9886.5	9334.0	8497.8	7719.0	7453.3	7474.5	7770.3	8126.5	9180.1
32.5°	11178.5	11151.3	10861.5	10224.6	9288.7	8283.5	7706.9	7700.9	7918.2	8289.5	9439.7
35°	12138.4	12177.7	11869.8	11166.4	10158.1	8980.8	8087.3	8063.1	8232.2	8555.2	9804.9
37.5°	13300.7	13288.6	12920.3	12159.6	11030.6	9648.0	8621.6	8579.3	8639.7	8968.7	10315.1
40°	14130.8	14215.4	13976.9	13267.5	12050.9	10469.1	9246.5	9152.9	9168.0	9478.9	10997.4
42.5°	14810.1	14888.5	14912.7	14459.9	13219.2	11483.4	10025.3	9931.7	9940.8	10381.5	11836.6
45°	15332.3	15438.0	15779.1	15646.3	14535.3	12654.7	11078.9	10982.3	10988.3	11477.3	12850.9
47.5°	15546.6	15661.3	16352.6	16669.6	15933.0	14055.4	12389.0	12247.1	12268.3	12808.6	14010.1
50°	15477.2	15631.2	16567.0	17457.5	17104.3	15480.2	13955.7	13856.1	13774.6	14559.5	15268.9
52.5°	14879.5	15048.5	16545.8	17958.6	18061.3	16826.6	15573.8	15516.4	15498.3	16419.1	16675.7
55°	13119.5	13403.3	15818.3	18091.5	18809.9	18094.5	17327.7	17231.1	17324.7	18411.4	18097.5
57.5°	12144.5	12355.8	14393.5	17943.5	19422.7	19302.0	19078.6	19087.6	19193.3	20575.9	19821.2
60°	11589.0	11836.6	13602.5	17539.0	20011.4	20769.1	20911.0	20911.0	21101.2	22909.4	21572.1
62.5°	10852.5	11103.0	12863.0	16760.2	20554.8	22495.8	23214.3	23205.2	23280.7	25412.0	23283.7
65°	9358.2	9590.6	11377.7	15531.5	20820.4	24397.6	25831.6	25804.4	25653.5	27639.8	24415.8
67.5°	6795.2	7015.6	8715.2	13195.0	19863.5	25931.2	28527.3	28539.4	27636.8	29043.5	24476.1
70°	4479.8	4630.8	5602.8	8570.3	16153.4	25270.1	29656.3	29692.6	27941.7	28168.1	21783.4
72.5°	2795.4	2901.0	3498.7	5110.8	9545.3	20002.3	26758.3	26857.9	25137.2	24753.9	17898.3
75°	1856.5	1929.0	2327.5	2979.5	4416.5	10825.3	20340.4	20660.4	20147.2	19404.6	12470.5
77.5°	1116.9	1177.3	1482.2	1892.8	1956.2	4229.3	11872.8	12699.9	12772.4	10131.0	5222.5
80°	510.2	579.6	818.1	1080.7	1041.5	1473.2	4187.0	4380.2	5168.1	3218.0	1648.2
82.5°	301.9	332.1	543.4	537.3	443.8	715.4	1506.4	1545.6	1313.2	1177.3	703.4
85°	120.8	141.9	229.4	202.3	163.0	232.4	567.5	594.7	570.5	513.2	259.6
87.5°	0.0	0.0	0.0	0.0	3.0	6.0	51.3	54.3	78.5	141.9	78.5
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°	6910.0	6910.0	6910.0	6910.0	6910.0	6910.0	6910.0	6910.0	6910.0	6910.0	6910.0
2.5°	6961.3	6943.2	7033.7	7103.2	7133.3	7163.5	7136.4	7127.3	7127.3	7066.9	7036.7
5°	7036.7	7045.8	7169.6	7226.9	7226.9	7202.8	7130.3	7079.0	7060.9	6982.4	6961.3
7.5°	7178.6	7217.9	7332.6	7329.6	7245.0	7112.2	6931.1	6792.2	6665.4	6611.1	6577.9
10°	7411.1	7462.4	7540.9	7414.1	7178.6	6828.4	6445.1	6143.2	5962.1	5817.2	5817.2
12.5°	7676.7	7725.0	7709.9	7417.1	6931.1	6276.0	5723.6	5376.4	5122.8	4990.0	4990.0
15°	7942.4	7981.6	7818.6	7278.2	6414.9	5542.5	4938.7	4522.1	4301.7	4178.0	4178.0
17.5°	8211.0	8208.0	7863.9	6958.3	5741.7	4730.4	4138.7	3815.7	3740.2	3719.1	3716.1
20°	8470.7	8401.2	7806.5	6423.9	4959.8	3912.3	3538.0	3559.1	3670.8	3719.1	3725.2
22.5°	8763.5	8591.4	7637.5	5741.7	4072.3	3344.8	3368.9	3544.0	3707.0	3779.5	3788.5
25°	9062.3	8754.4	7353.7	4941.7	3329.7	3136.5	3323.7	3519.9	3704.0	3797.6	3806.7
27.5°	9183.1	8754.4	6870.7	4015.0	2934.2	3049.0	3254.2	3444.4	3637.6	3746.3	3767.4
30°	9282.7	8678.9	6194.5	3178.8	2771.2	2964.4	3142.5	3317.6	3507.8	3640.6	3664.8
32.5°	9421.6	8612.5	5376.4	2671.6	2695.8	2882.9	3006.7	3154.6	3326.7	3414.2	3405.2
35°	9584.6	8509.9	4389.3	2430.1	2632.4	2813.5	2901.0	2988.6	2910.1	2907.1	2916.1
37.5°	9817.0	8419.3	3528.9	2321.4	2590.1	2765.2	2837.6	2650.5	2541.8	2496.5	2478.4
40°	10152.1	8383.1	2783.3	2258.0	2584.1	2762.2	2710.8	2421.0	2273.1	2116.2	2113.1
42.5°	10574.7	8355.9	2300.3	2227.8	2605.2	2831.6	2535.8	2270.1	1965.2	1895.8	1889.7
45°	11118.1	8313.7	2058.8	2221.8	2656.5	2885.9	2517.6	2061.8	1853.5	1823.3	1823.3
47.5°	11773.2	8247.3	1950.1	2221.8	2713.9	2861.8	2463.3	2016.5	1802.2	1835.4	1856.5
50°	12524.9	8162.7	1892.8	2215.8	2771.2	2861.8	2348.6	2007.5	1790.1	1962.2	2031.6
52.5°	13327.8	8066.1	1853.5	2191.6	2810.5	2864.8	2354.6	2037.7	1802.2	1992.4	2049.7
55°	14215.4	8051.0	1799.2	2140.3	2822.5	2786.3	2369.7	2104.1	1820.3	1805.2	1808.2
57.5°	15335.3	8232.2	1759.9	2064.8	2774.2	2626.3	2399.9	2152.4	1799.2	1802.2	1823.3
60°	16506.6	8573.3	1793.1	1992.4	2674.6	2475.4	2421.0	2128.2	1696.5	1648.2	1654.3
62.5°	17502.8	8832.9	1820.3	1959.2	2529.7	2342.6	2399.9	2073.9	1639.2	1627.1	1654.3
65°	17919.4	8618.6	1753.9	1889.7	2318.4	2179.5	2354.6	2004.5	1590.9	1545.6	1548.6
67.5°	17457.5	7613.3	1624.1	1735.8	2079.9	1971.3	2282.2	1913.9	1524.5	1470.1	1458.1
70°	14912.7	5593.8	1400.7	1491.3	1790.1	1726.7	2170.5	1796.2	1418.8	1379.6	1352.4
72.5°	12017.7	3960.6	1162.2	1186.4	1403.7	1455.0	1977.3	1648.2	1298.1	1186.4	1147.1
75°	8365.0	2487.5	969.0	944.9	1014.3	1110.9	1542.6	1367.5	1120.0	1002.2	966.0
77.5°	3598.4	1276.9	757.7	745.6	676.2	769.8	1183.4	1141.1	938.8	803.0	781.9
80°	1204.5	739.6	546.4	525.3	449.8	540.4	833.2	911.7	736.6	594.7	558.5
82.5°	603.8	428.7	347.2	314.0	301.9	341.1	492.1	567.5	510.2	410.6	347.2
85°	295.8	244.5	190.2	187.2	157.0	147.9	205.3	241.5	229.4	169.1	160.0
87.5°	108.7	96.6	60.4	48.3	30.2	21.1	12.1	12.1	9.1	9.1	9.1
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)