

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: P638833

Luminaire Tested: GWS-SA4F-750-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638833  
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-SA4F-750-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

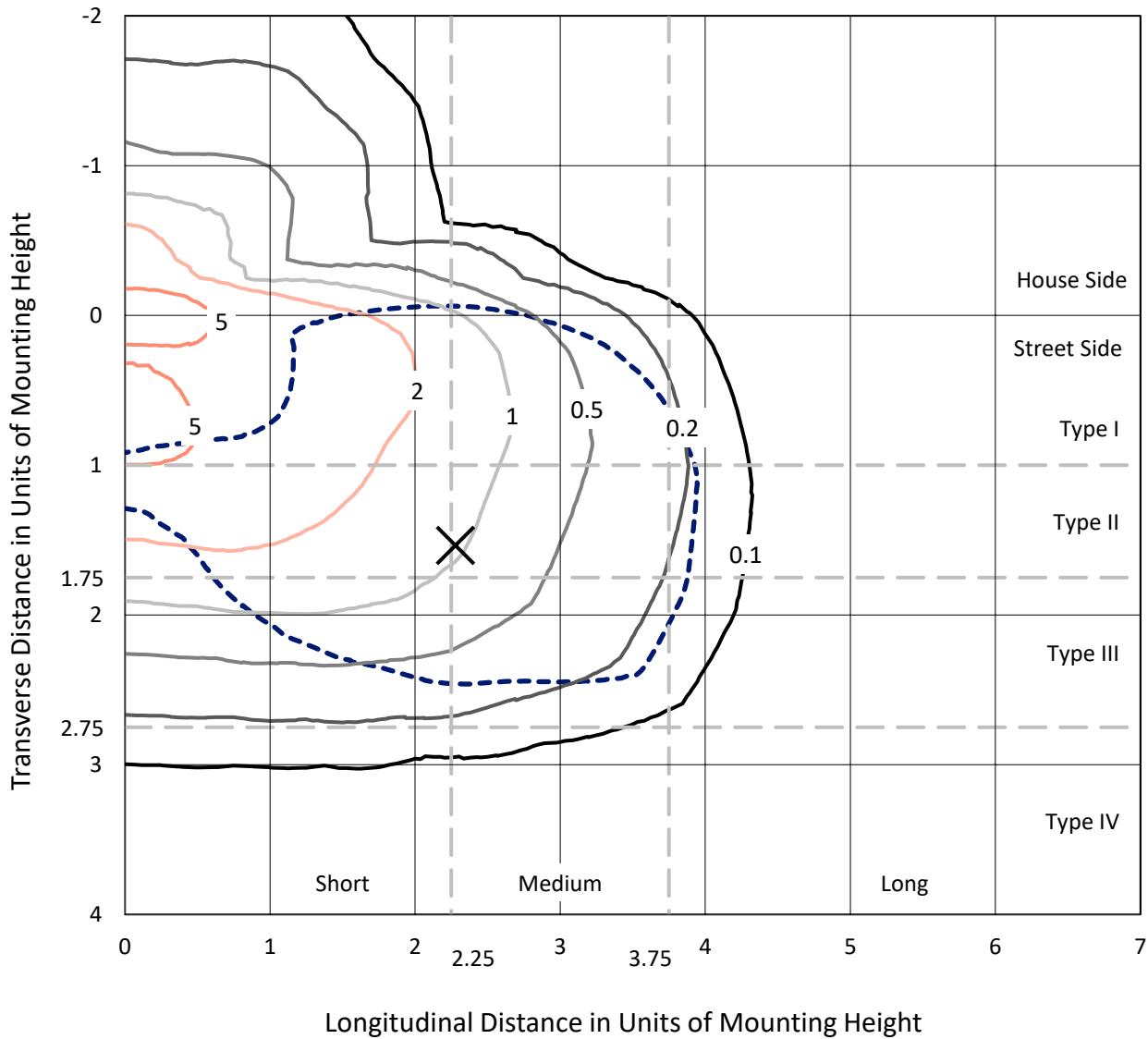
Lumens per Lamp: N/A  
Luminaire Lumens: 35381.9 lumens  
Efficiency: N/A  
Efficacy: 157.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): 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

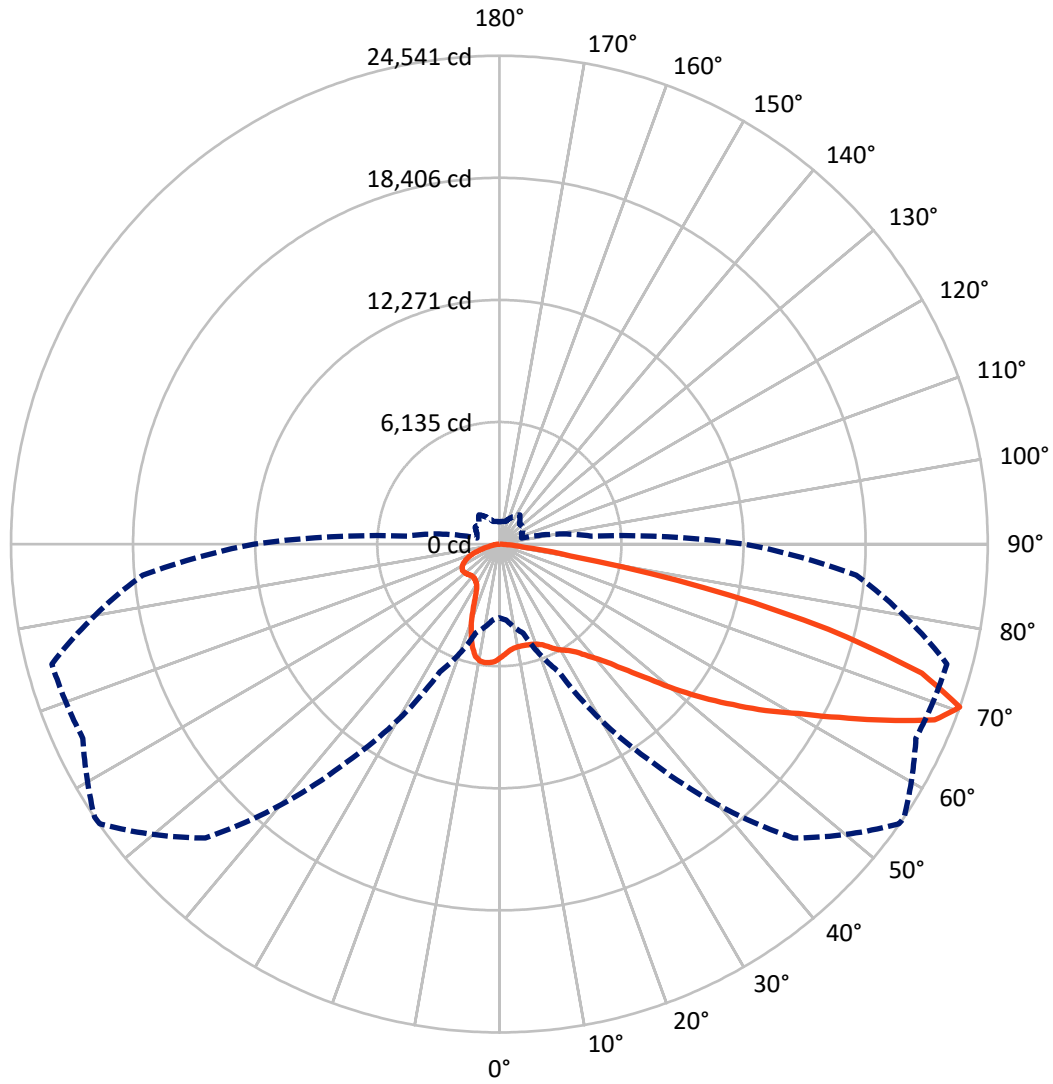
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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	6802.2	0.0	6802.2
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	28579.7	0.0	28579.7
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	35381.9	0.0	35381.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.5	1.5
10°-20°	1432.0	4.0
20°-30°	2367.5	6.7
30°-40°	3539.7	10.0
40°-50°	5267.6	14.9
50°-60°	7489.0	21.2
60°-70°	9275.3	26.2
70°-80°	5121.6	14.5
80°-90°	360.7	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°	35381.9	100.0
0°-180°	35381.9	100.0

**Coefficient of Utilization**



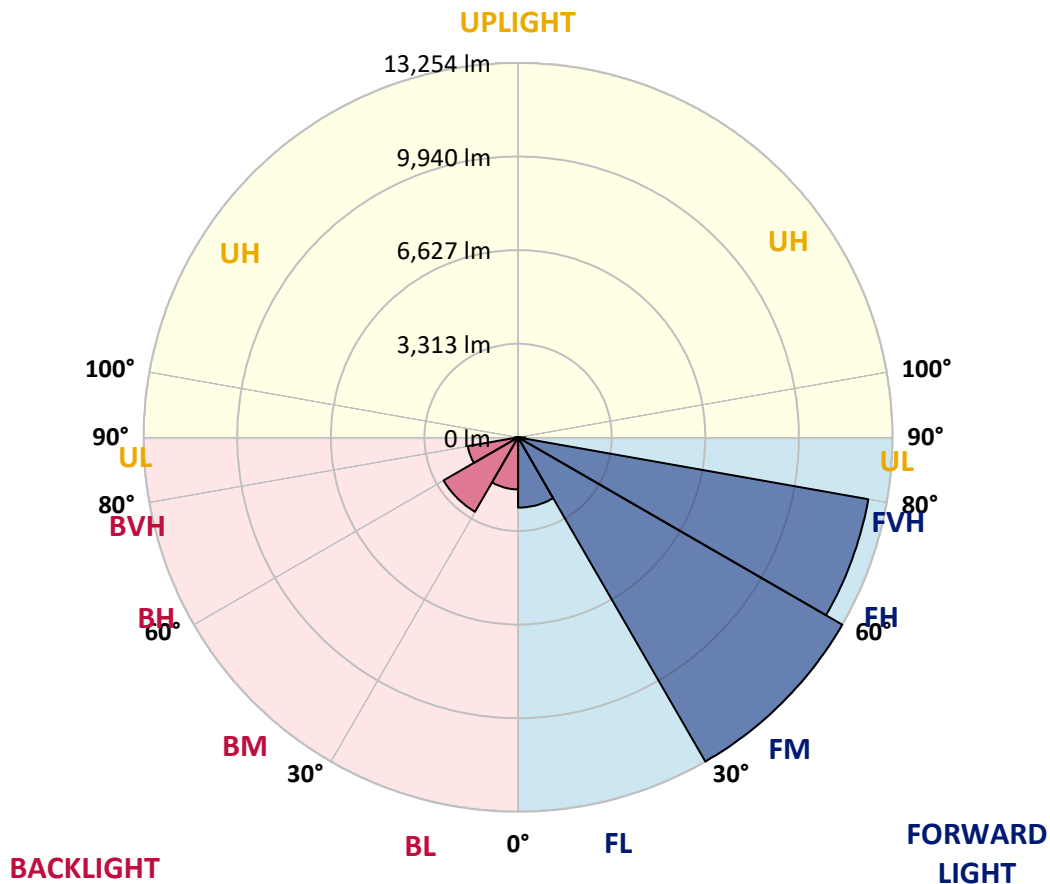
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CATALOG NUMBER: GWS-SA4F-750-U-T3R-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2486.6	7.0			
FM (30°-60°)	13253.5	37.5			
FH (60°-80°)	12588.9	35.6			G5
FVH (80°-90°)	250.7	0.7			G3/500
BL (0°-30°)	1841.4	5.2	B3/2500		
BM (30°-60°)	3042.8	8.6	B3/5000		
BH (60°-80°)	1808.0	5.1	B3/2500		G3/2500
BVH (80°-90°)	110.0	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°	5711.2	5711.2	5711.2	5711.2	5711.2	5711.2	5711.2	5711.2	5711.2	5711.2	5711.2
2.5°	5344.4	5314.5	5349.4	5366.9	5411.8	5476.6	5534.0	5536.5	5566.5	5638.8	5708.7
5°	5102.4	5087.4	5097.4	5149.8	5197.2	5279.5	5366.9	5374.4	5459.2	5601.4	5741.1
7.5°	4915.3	4895.3	4932.7	5000.1	5060.0	5152.3	5267.1	5277.0	5396.8	5611.4	5826.0
10°	4645.8	4630.8	4700.7	4790.5	4920.3	5072.4	5224.6	5237.1	5394.3	5676.3	5975.7
12.5°	4528.5	4528.5	4558.5	4643.3	4785.5	4987.6	5217.2	5237.1	5434.2	5776.1	6167.8
15°	4710.7	4723.1	4698.2	4693.2	4750.6	4942.7	5227.1	5257.1	5509.1	5878.4	6357.4
17.5°	5077.4	5089.9	5025.0	4922.7	4865.4	4985.1	5264.6	5297.0	5588.9	5990.6	6562.0
20°	5591.4	5606.4	5464.2	5307.0	5109.9	5107.4	5336.9	5366.9	5691.2	6112.9	6779.1
22.5°	6192.7	6202.7	6023.1	5773.6	5471.7	5334.4	5461.7	5491.6	5823.5	6282.6	7013.6
25°	6888.8	6918.8	6701.7	6339.9	5930.7	5646.3	5668.8	5703.7	6060.5	6509.6	7290.6
27.5°	7632.4	7669.8	7420.3	7021.1	6457.2	5990.6	5935.7	5965.7	6312.5	6649.3	7437.8
30°	8393.4	8420.8	8171.3	7714.7	7023.6	6379.9	6160.3	6177.8	6422.3	6716.7	7587.5
32.5°	9239.2	9216.7	8977.2	8450.8	7677.3	6846.4	6369.9	6364.9	6544.5	6851.4	7802.0
35°	10032.6	10065.1	9810.6	9229.2	8395.9	7422.8	6684.3	6664.3	6804.0	7071.0	8103.9
37.5°	10993.2	10983.2	10678.8	10050.1	9116.9	7974.2	7125.9	7090.9	7140.8	7412.8	8525.6
40°	11679.4	11749.2	11552.1	10965.8	9960.3	8652.9	7642.4	7565.0	7577.5	7834.5	9089.5
42.5°	12240.7	12305.6	12325.6	11951.3	10925.8	9491.2	8286.1	8208.7	8216.2	8580.5	9783.1
45°	12672.4	12759.7	13041.7	12931.9	12013.7	10459.3	9156.9	9077.0	9082.0	9486.2	10621.5
47.5°	12849.5	12944.3	13515.7	13777.7	13168.9	11617.0	10239.7	10122.4	10139.9	10586.5	11579.6
50°	12792.2	12919.4	13692.9	14428.9	14137.0	12794.6	11534.6	11452.3	11384.9	12033.7	12620.0
52.5°	12298.1	12437.9	13675.4	14843.1	14927.9	13907.4	12872.0	12824.6	12809.6	13570.6	13782.7
55°	10843.5	11078.0	13074.1	14952.9	15546.7	14955.4	14321.6	14241.8	14319.1	15217.3	14957.9
57.5°	10037.6	10212.3	11896.4	14830.6	16053.2	15953.4	15768.8	15776.2	15863.6	17006.3	16382.5
60°	9578.5	9783.1	11242.7	14496.3	16539.7	17166.0	17283.3	17283.3	17440.4	18935.0	17829.7
62.5°	8969.7	9176.8	10631.4	13852.6	16988.8	18593.2	19187.0	19179.5	19241.9	21003.4	19244.4
65°	7734.7	7926.8	9403.9	12837.1	17208.4	20165.0	21350.2	21327.7	21203.0	22844.7	20180.0
67.5°	5616.4	5798.5	7203.2	10905.9	16417.5	21432.5	23578.3	23588.3	22842.2	24004.9	20229.9
70°	3702.7	3827.4	4630.8	7083.5	13351.0	20886.1	24511.4	24541.4	23094.2	23281.4	18004.3
72.5°	2310.4	2397.7	2891.8	4224.1	7889.4	16532.2	22116.2	22198.5	20776.3	20459.5	14793.2
75°	1534.5	1594.3	1923.7	2462.6	3650.3	8947.3	16811.7	17076.2	16652.0	16038.2	10307.1
77.5°	923.2	973.1	1225.1	1564.4	1616.8	3495.6	9813.1	10496.7	10556.6	8373.4	4316.4
80°	421.7	479.1	676.2	893.2	860.8	1217.6	3460.6	3620.3	4271.5	2659.7	1362.3
82.5°	249.5	274.5	449.1	444.1	366.8	591.3	1245.0	1277.5	1085.3	973.1	581.3
85°	99.8	117.3	189.6	167.2	134.7	192.1	469.1	491.5	471.6	424.2	214.6
87.5°	0.0	0.0	0.0	0.0	2.5	5.0	42.4	44.9	64.9	117.3	64.9
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°	5711.2	5711.2	5711.2	5711.2	5711.2	5711.2	5711.2	5711.2	5711.2	5711.2	5711.2
2.5°	5753.6	5738.6	5813.5	5870.9	5895.8	5920.8	5898.3	5890.8	5890.8	5840.9	5816.0
5°	5816.0	5823.5	5925.8	5973.2	5973.2	5953.2	5893.3	5850.9	5835.9	5771.1	5753.6
7.5°	5933.2	5965.7	6060.5	6058.0	5988.1	5878.4	5728.6	5613.9	5509.1	5464.2	5436.7
10°	6125.4	6167.8	6232.6	6127.9	5933.2	5643.8	5326.9	5077.4	4927.7	4808.0	4808.0
12.5°	6344.9	6384.8	6372.4	6130.4	5728.6	5187.2	4730.6	4443.7	4234.1	4124.3	4124.3
15°	6564.5	6596.9	6462.2	6015.6	5302.0	4580.9	4081.9	3737.6	3555.5	3453.2	3453.2
17.5°	6786.6	6784.1	6499.6	5751.1	4745.6	3909.8	3420.7	3153.8	3091.4	3073.9	3071.4
20°	7001.1	6943.7	6452.2	5309.5	4099.4	3233.6	2924.2	2941.7	3034.0	3073.9	3078.9
22.5°	7243.1	7100.9	6312.5	4745.6	3365.8	2764.5	2784.5	2929.2	3063.9	3123.8	3131.3
25°	7490.2	7235.7	6078.0	4084.4	2752.0	2592.4	2747.1	2909.2	3061.4	3138.8	3146.3
27.5°	7590.0	7235.7	5678.7	3318.4	2425.2	2520.0	2689.7	2846.9	3006.5	3096.4	3113.8
30°	7672.3	7173.3	5119.9	2627.3	2290.5	2450.1	2597.4	2742.1	2899.3	3009.0	3029.0
32.5°	7787.1	7118.4	4443.7	2208.1	2228.1	2382.8	2485.1	2607.3	2749.6	2821.9	2814.4
35°	7921.8	7033.6	3627.8	2008.5	2175.7	2325.4	2397.7	2470.1	2405.2	2402.7	2410.2
37.5°	8113.9	6958.7	2916.7	1918.7	2140.8	2285.5	2345.4	2190.7	2100.8	2063.4	2048.4
40°	8390.9	6928.8	2300.4	1866.3	2135.8	2283.0	2240.6	2001.0	1878.8	1749.0	1746.5
42.5°	8740.2	6906.3	1901.2	1841.4	2153.2	2340.4	2095.8	1876.3	1624.3	1566.9	1561.9
45°	9189.3	6871.4	1701.6	1836.4	2195.6	2385.3	2080.9	1704.1	1532.0	1507.0	1507.0
47.5°	9730.7	6816.5	1611.8	1836.4	2243.1	2365.3	2036.0	1666.7	1489.5	1517.0	1534.5
50°	10352.0	6746.6	1564.4	1831.4	2290.5	2365.3	1941.2	1659.2	1479.6	1621.8	1679.2
52.5°	11015.7	6666.8	1532.0	1811.4	2322.9	2367.8	1946.1	1684.2	1489.5	1646.7	1694.1
55°	11749.2	6654.3	1487.1	1769.0	2332.9	2302.9	1958.6	1739.1	1504.5	1492.0	1494.5
57.5°	12674.9	6804.0	1454.6	1706.6	2293.0	2170.7	1983.6	1779.0	1487.1	1489.5	1507.0
60°	13643.0	7086.0	1482.1	1646.7	2210.6	2045.9	2001.0	1759.0	1402.2	1362.3	1367.3
62.5°	14466.3	7300.5	1504.5	1619.3	2090.9	1936.2	1983.6	1714.1	1354.8	1344.8	1367.3
65°	14810.7	7123.4	1449.6	1561.9	1916.2	1801.4	1946.1	1656.7	1314.9	1277.5	1280.0
67.5°	14428.9	6292.5	1342.3	1434.7	1719.1	1629.3	1886.3	1581.9	1260.0	1215.1	1205.1
70°	12325.6	4623.3	1157.7	1232.6	1479.6	1427.2	1793.9	1484.6	1172.7	1140.2	1117.8
72.5°	9932.8	3273.5	960.6	980.6	1160.2	1202.6	1634.3	1362.3	1072.9	980.6	948.1
75°	6913.8	2055.9	800.9	781.0	838.3	918.2	1275.0	1130.3	925.7	828.4	798.4
77.5°	2974.1	1055.4	626.3	616.3	558.9	636.2	978.1	943.1	776.0	663.7	646.2
80°	995.5	611.3	451.6	434.1	371.8	446.6	688.6	753.5	608.8	491.5	461.6
82.5°	499.0	354.3	286.9	259.5	249.5	281.9	406.7	469.1	421.7	339.3	286.9
85°	244.5	202.1	157.2	154.7	129.7	122.3	169.7	199.6	189.6	139.7	132.2
87.5°	89.8	79.8	49.9	39.9	25.0	17.5	10.0	10.0	7.5	7.5	7.5
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)