

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: P643752

Luminaire Tested: GWS-SA6F-750-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643752  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-750-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50029.2 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 372.6  
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

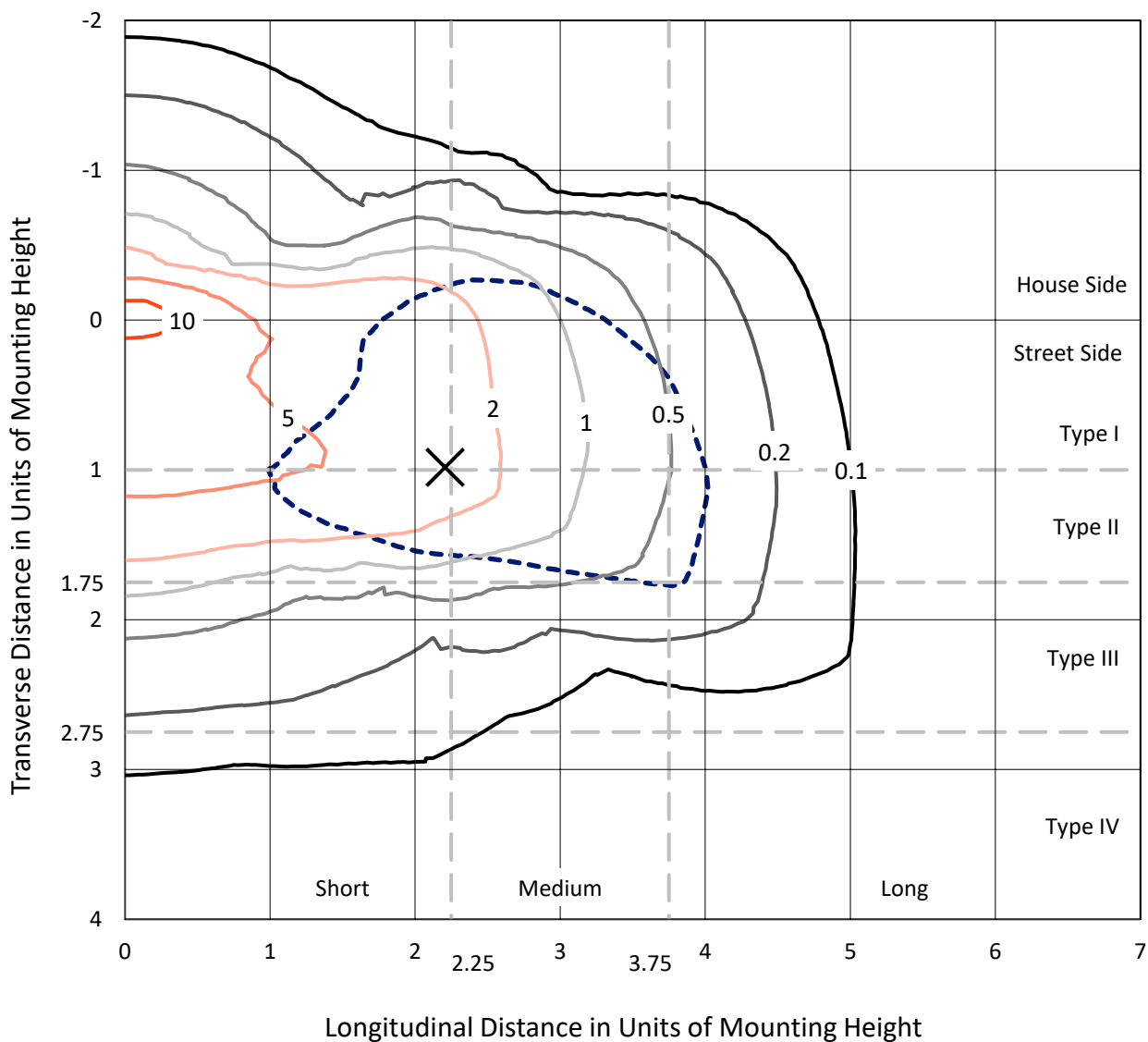


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### Iso-Footcandle Lines of Horizontal Illumination

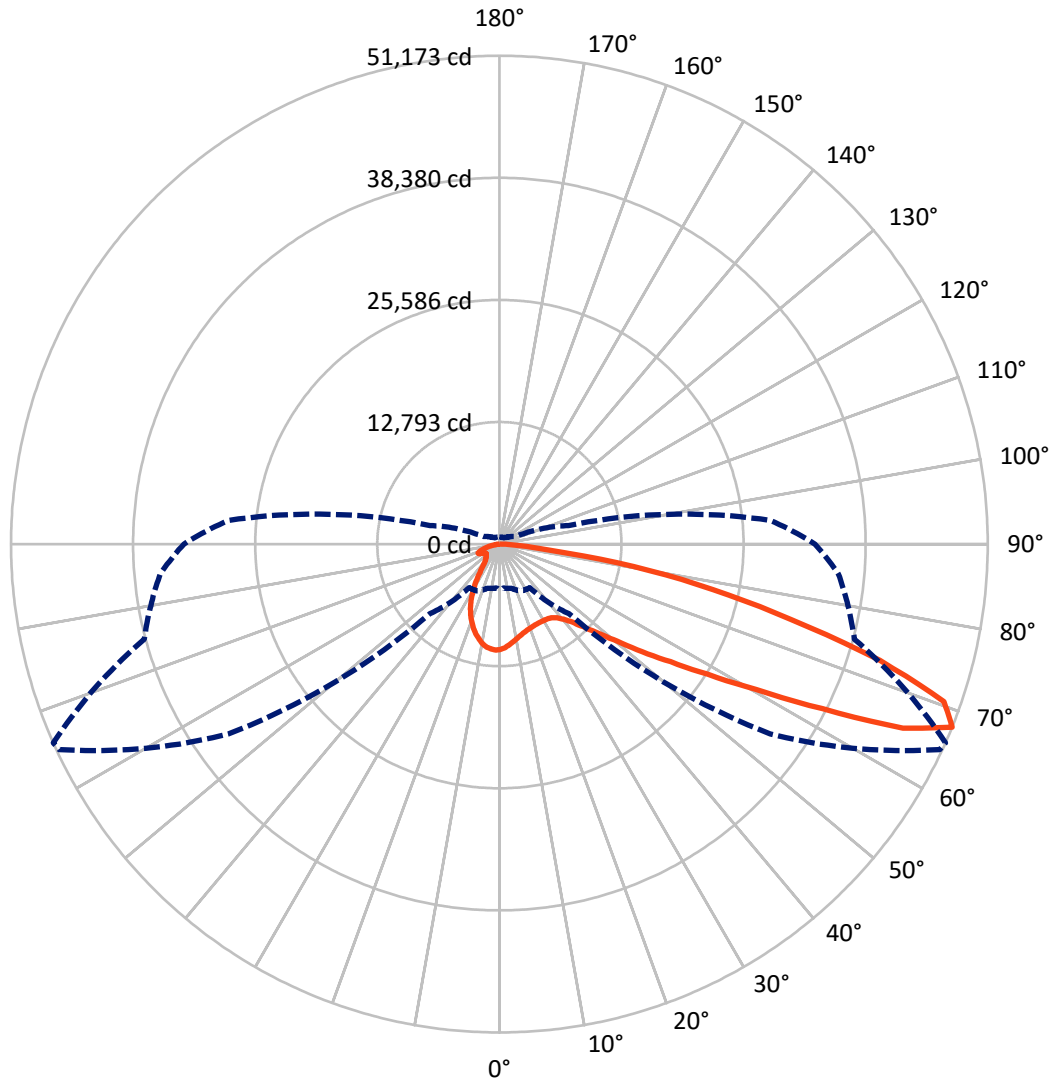
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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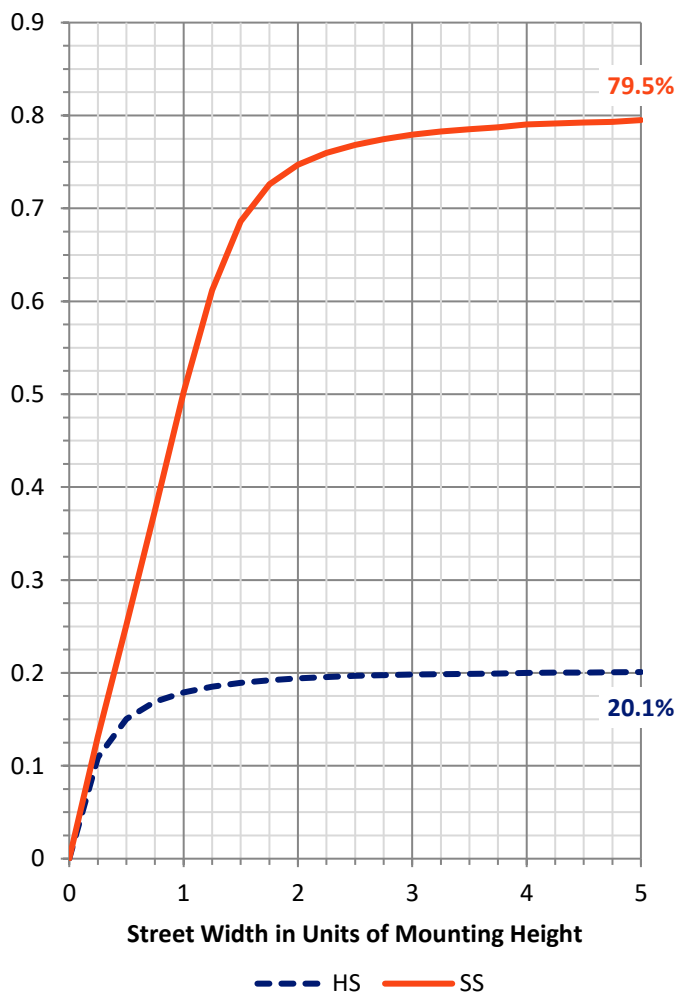
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10152.1	0.0	10152.1
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	39877.1	0.0	39877.1
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	50029.2	0.0	50029.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	970.2	1.9
10°-20°	2384.4	4.8
20°-30°	3277.5	6.6
30°-40°	4480.8	9.0
40°-50°	6789.6	13.6
50°-60°	10554.7	21.1
60°-70°	12850.1	25.7
70°-80°	7827.7	15.6
80°-90°	894.1	1.8
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°	50029.2	100.0
0°-180°	50029.2	100.0

**Coefficient of Utilization**



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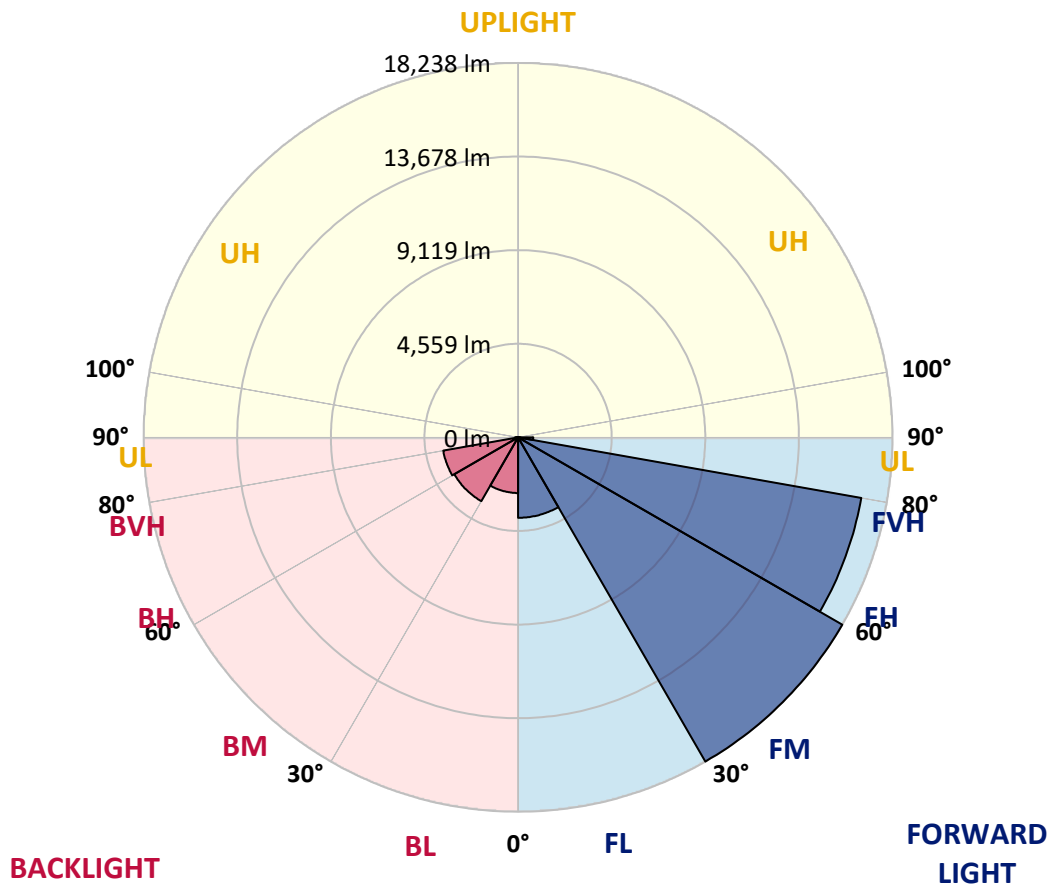
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3920.0	7.8			
FM (30°-60°)	18237.6	36.5			
FH (60°-80°)	16976.2	33.9			G5
FVH (80°-90°)	743.4	1.5			G4/750
BL (0°-30°)	2712.1	5.4	B4/5000		
BM (30°-60°)	3587.6	7.2	B3/5000		
BH (60°-80°)	3701.6	7.4	B4/5000		G4/5000
BVH (80°-90°)	150.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11055.0	11055.0	11055.0	11055.0	11055.0	11055.0	11055.0	11055.0	11055.0	11055.0	11055.0
2.5°	10354.3	10390.8	10368.9	10507.6	10514.9	10690.1	10788.6	10872.5	10879.8	10989.3	11062.3
5°	9646.2	9668.1	9668.1	9799.5	9887.1	10120.7	10347.0	10587.9	10606.1	10868.9	11069.6
7.5°	9073.2	9095.1	9080.5	9255.7	9368.9	9628.0	9916.3	10284.9	10321.4	10744.8	11095.2
10°	8624.3	8617.0	8653.5	8814.1	8960.1	9270.3	9591.5	10011.2	10066.0	10602.5	11124.4
12.5°	8317.7	8325.0	8346.9	8514.8	8671.8	8978.3	9310.5	9766.7	9825.1	10438.2	11109.8
15°	8171.7	8157.1	8175.4	8328.7	8478.3	8748.4	9091.5	9562.3	9620.7	10292.2	11113.4
17.5°	8138.9	8127.9	8124.3	8233.8	8346.9	8598.8	8927.2	9405.4	9467.4	10197.3	11135.3
20°	8241.1	8226.5	8186.3	8233.8	8281.2	8492.9	8810.4	9292.2	9361.6	10135.3	11179.1
22.5°	8522.1	8496.6	8434.5	8376.1	8314.1	8441.8	8737.5	9208.3	9277.6	10095.2	11222.9
25°	8949.1	8927.2	8861.5	8730.2	8503.9	8482.0	8722.9	9171.8	9241.1	10066.0	11241.2
27.5°	9536.7	9503.9	9438.2	9248.4	8879.8	8631.6	8777.6	9168.1	9233.8	10033.1	11222.9
30°	10233.8	10211.9	10175.4	9945.5	9452.8	8949.1	8901.7	9197.3	9248.4	10014.9	11186.4
32.5°	10941.9	10920.0	10949.2	10839.7	10233.8	9474.7	9171.8	9277.6	9314.1	10011.2	11153.6
35°	11566.0	11591.5	11803.2	11821.5	11226.6	10186.4	9598.8	9463.8	9471.0	10084.2	11168.2
37.5°	12219.3	12317.8	12595.2	12832.5	12336.1	11128.0	10233.8	9814.1	9806.8	10270.3	11259.4
40°	13084.3	13128.1	13482.1	13927.4	13617.1	12420.0	11135.3	10387.1	10336.0	10649.9	11503.9
42.5°	13927.4	14033.2	14598.9	15109.9	15007.7	13876.3	12270.4	11244.8	11153.6	11321.5	12007.6
45°	15000.4	15102.6	15737.6	16394.6	16580.7	15522.3	13723.0	12463.8	12372.6	12332.4	12931.0
47.5°	16073.4	16179.3	16748.6	17697.5	18350.8	17580.8	15613.5	14073.4	13923.7	13766.8	14325.2
50°	16796.1	16920.1	17464.0	18602.7	20135.6	20150.2	17854.5	16182.9	15993.1	15744.9	16288.7
52.5°	16770.5	16850.8	17369.1	18683.0	21420.3	23102.8	20854.6	18869.1	18715.8	18175.7	18650.1
55°	15453.0	15573.4	16095.3	17737.7	21559.0	25902.1	25263.4	22037.1	21763.3	20796.2	21318.1
57.5°	12806.9	12909.1	13434.7	15460.3	20329.0	27336.5	30862.1	26073.7	25697.8	23650.3	24252.5
60°	9668.1	9544.0	9792.2	11566.0	17387.3	27373.0	35803.9	31548.3	30920.5	26701.4	27205.1
62.5°	7255.7	7131.6	7186.3	7686.3	11788.6	25161.2	38621.4	39037.5	38001.0	30146.8	30048.2
65°	5733.7	5664.4	5821.3	6164.4	6872.4	19161.1	38643.3	47136.3	46483.0	34139.6	32964.4
67.5°	4671.7	4627.9	4788.4	5423.5	5573.1	10295.9	34650.5	50917.4	51172.9	38512.0	35668.8
70°	3762.9	3697.2	3949.0	4784.8	5182.6	6230.1	24821.8	48990.3	49402.7	41117.9	34906.0
72.5°	2598.6	2602.3	2730.0	3876.0	5003.8	5379.7	14040.5	40793.0	41687.2	38756.5	30686.9
75°	1751.9	1766.5	1803.0	2558.5	4609.6	5219.1	7481.9	30884.0	31515.4	32033.7	25365.6
77.5°	1058.4	1065.7	1149.7	1547.5	3178.9	4872.4	5069.5	22387.4	22883.8	21117.3	15723.0
80°	613.2	638.7	715.3	1036.5	2146.0	3660.7	3923.5	13726.6	14288.7	9387.1	4996.5
82.5°	270.1	288.3	390.5	602.2	1251.9	3113.2	3062.1	5423.5	5343.2	2616.9	1733.6
85°	47.4	58.4	83.9	189.8	459.9	1642.4	2376.0	2394.2	2251.9	992.7	719.0
87.5°	0.0	0.0	0.0	0.0	0.0	10.9	357.7	642.4	638.7	281.0	248.2
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°	11055.0	11055.0	11055.0	11055.0	11055.0	11055.0	11055.0	11055.0	11055.0	11055.0	11055.0
2.5°	11109.8	11011.2	11098.8	11109.8	11091.5	11076.9	10967.4	10872.5	10861.6	10759.4	10759.4
5°	11149.9	11058.7	11102.5	11018.5	10887.1	10752.1	10518.5	10357.9	10284.9	10153.5	10153.5
7.5°	11204.7	11109.8	11058.7	10850.6	10544.1	10248.4	9872.5	9558.6	9430.9	9244.8	9237.5
10°	11255.8	11135.3	10960.1	10555.0	10066.0	9595.1	9047.7	8602.4	8299.5	8076.9	8076.9
12.5°	11252.1	11095.2	10748.5	10149.9	9474.7	8792.2	8062.3	7390.7	6989.2	6642.5	6620.6
15°	11244.8	11029.5	10478.4	9679.1	8784.9	7839.6	6846.9	5971.0	5376.1	5036.6	5007.4
17.5°	11237.5	10945.5	10175.4	9142.6	7945.5	6657.1	5346.9	4397.9	3901.6	3693.5	3700.8
20°	11237.5	10850.6	9850.6	8525.8	6978.3	5241.0	3923.5	3233.7	3109.6	3120.5	3131.5
22.5°	11204.7	10733.9	9489.3	7854.2	5901.6	3854.1	2894.2	2660.7	2726.3	2828.5	2843.1
25°	11128.0	10540.4	9069.6	7109.7	4620.6	2806.6	2361.4	2317.6	2438.0	2565.8	2602.3
27.5°	11007.6	10317.8	8598.8	6237.4	3401.5	2255.5	2076.7	2073.0	2167.9	2262.8	2295.7
30°	10879.8	10069.6	8102.4	5266.6	2463.6	1963.6	1894.2	1894.2	1941.7	2000.1	1992.8
32.5°	10730.2	9817.8	7569.5	4255.6	2007.4	1799.3	1777.4	1766.5	1773.8	1795.7	1795.7
35°	10602.5	9595.1	7022.1	3186.2	1799.3	1708.1	1686.2	1660.6	1649.7	1635.1	1642.4
37.5°	10555.0	9420.0	6456.4	2401.5	1697.1	1642.4	1605.9	1569.4	1543.8	1536.5	1532.9
40°	10631.7	9347.0	5890.7	1978.2	1624.1	1573.0	1532.9	1485.4	1463.5	1463.5	1463.5
42.5°	10930.9	9401.7	5314.0	1788.4	1573.0	1514.6	1456.2	1412.4	1405.1	1412.4	1416.1
45°	11478.4	9613.4	4715.5	1693.5	1529.2	1456.2	1386.9	1354.0	1354.0	1361.3	1361.3
47.5°	12456.5	10168.1	4124.2	1635.1	1485.4	1408.8	1335.8	1303.0	1299.3	1306.6	1306.6
50°	14150.0	11168.2	3591.3	1594.9	1452.6	1372.3	1299.3	1255.5	1244.6	1240.9	1240.9
52.5°	16285.1	12901.8	3251.9	1565.7	1412.4	1332.2	1259.2	1200.8	1178.9	1167.9	1167.9
55°	18865.5	15212.1	3251.9	1543.8	1361.3	1284.7	1200.8	1142.4	1109.5	1094.9	1094.9
57.5°	21788.9	17901.9	3814.0	1525.6	1321.2	1230.0	1138.7	1080.3	1043.8	1021.9	1021.9
60°	24763.4	20745.1	5204.5	1500.0	1284.7	1160.6	1069.4	1014.6	967.2	941.6	938.0
62.5°	27847.4	23876.5	7036.7	1514.6	1259.2	1094.9	996.4	934.3	894.2	868.6	865.0
65°	30672.3	26858.4	8638.9	1627.8	1262.8	1036.5	912.4	857.7	824.8	792.0	788.3
67.5°	33070.2	28504.4	7514.8	1857.7	1339.5	967.2	828.5	773.7	744.5	722.6	719.0
70°	31391.3	25993.4	4262.9	2000.1	1445.3	894.2	733.6	697.1	667.9	653.3	649.7
72.5°	26843.8	22007.9	2850.4	1766.5	1317.6	799.3	646.0	616.8	594.9	576.7	573.0
75°	21745.1	17453.0	2178.9	1448.9	1025.6	649.7	554.8	532.9	511.0	492.7	489.1
77.5°	12865.3	10084.2	1605.9	1146.0	722.6	507.3	459.9	441.6	419.7	405.1	401.5
80°	4105.9	3503.7	1018.3	788.3	478.1	390.5	354.0	339.4	317.5	299.3	295.6
82.5°	1565.7	1354.0	540.2	401.5	317.5	266.4	237.2	222.6	208.0	189.8	186.1
85°	693.4	649.7	299.3	215.3	171.5	131.4	116.8	109.5	91.2	76.6	73.0
87.5°	244.5	244.5	127.7	62.0	36.5	18.2	10.9	3.6	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)