

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: P643787

Luminaire Tested: GWS-SA6F-750-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-750-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50474.4 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

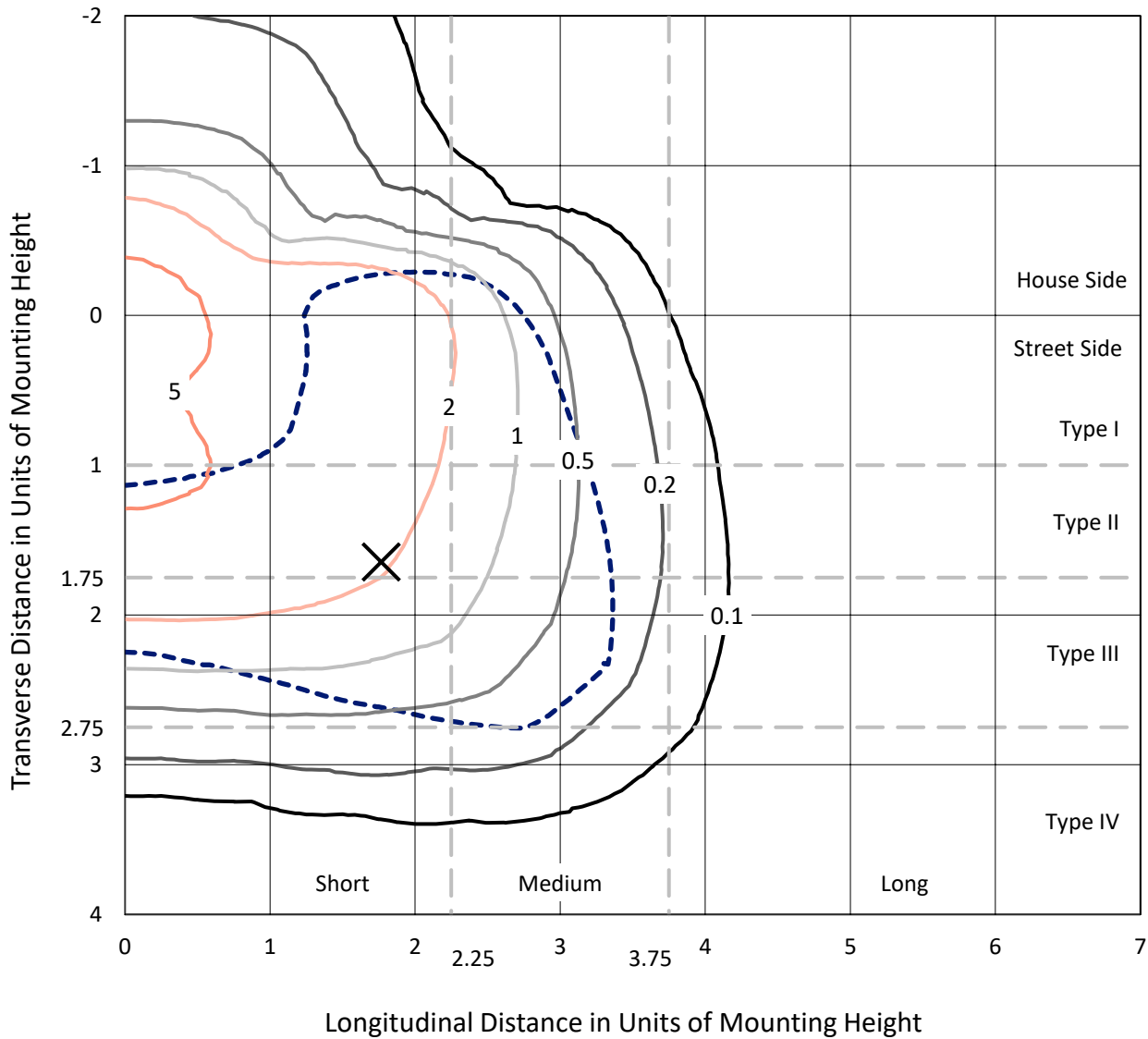
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

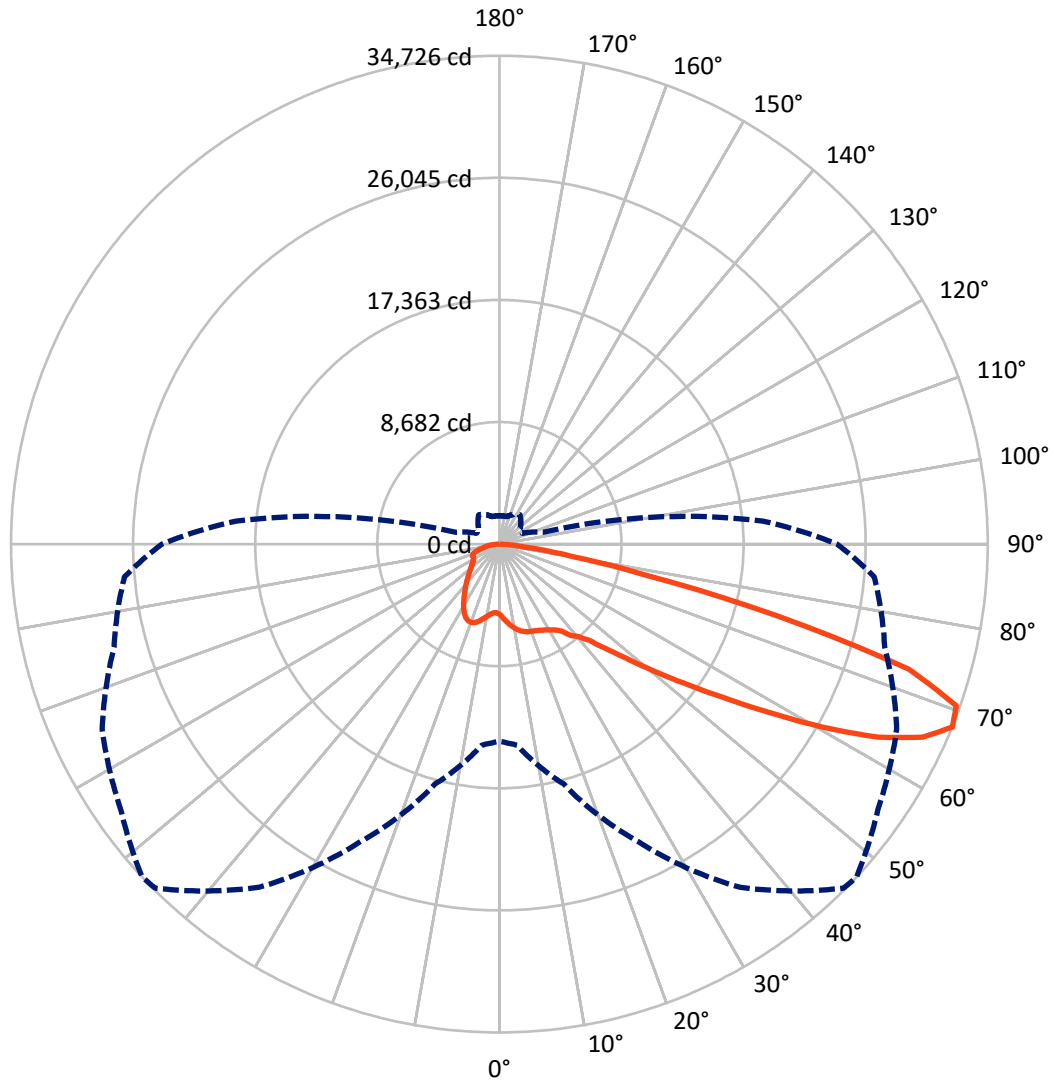
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11503.5	0.0	11503.5
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	38970.9	0.0	38970.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	50474.4	0.0	50474.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.4	1.0
10°-20°	1703.7	3.4
20°-30°	2895.9	5.7
30°-40°	4242.1	8.4
40°-50°	6463.4	12.8
50°-60°	11564.4	22.9
60°-70°	15431.4	30.6
70°-80°	6978.4	13.8
80°-90°	683.7	1.4
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°	50474.4	100.0
0°-180°	50474.4	100.0

Coefficient of Utilization



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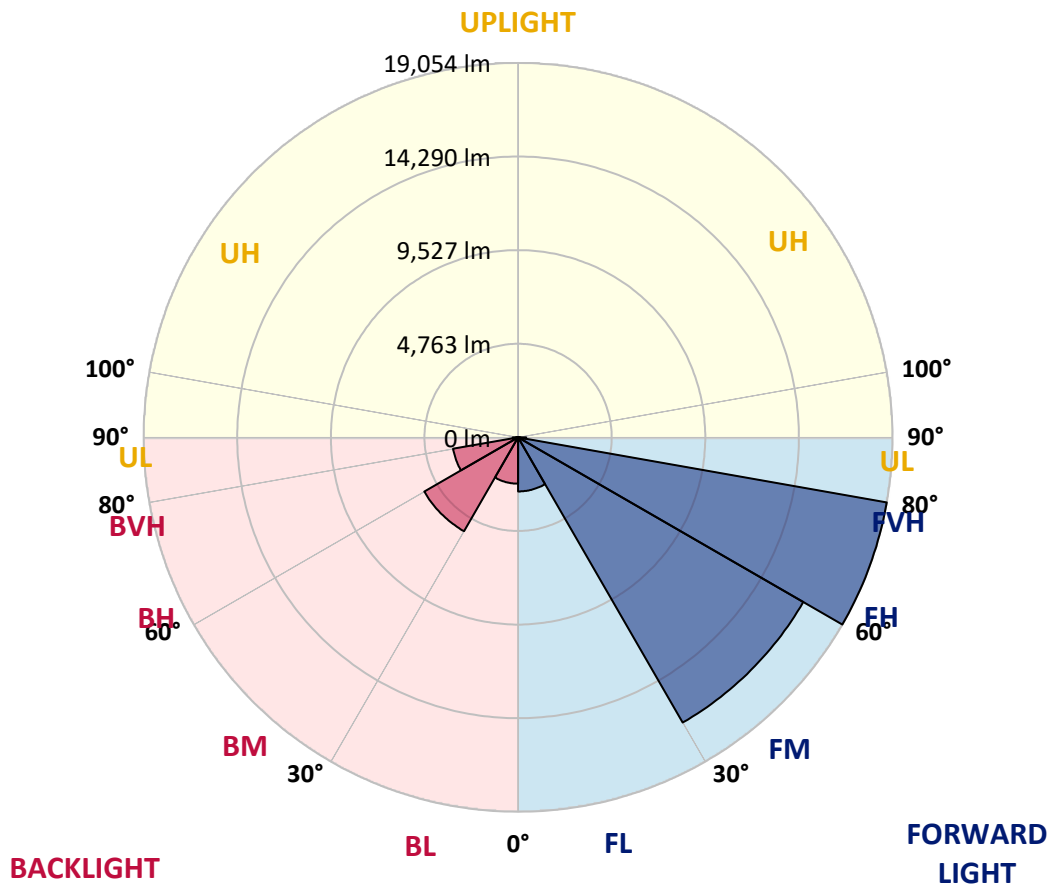
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2752.7	5.5			
FM (30°-60°)	16758.0	33.2			
FH (60°-80°)	19053.5	37.7			G5
FVH (80°-90°)	406.7	0.8			G3/500
BL (0°-30°)	2358.3	4.7	B3/2500		
BM (30°-60°)	5511.9	10.9	B4/8500		
BH (60°-80°)	3356.3	6.6	B4/5000		G4/5000
BVH (80°-90°)	277.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6
2.5°	5335.7	5354.0	5350.3	5321.1	5302.9	5270.0	5273.7	5222.6	5145.9	5094.9	5036.5
5°	5806.5	5835.7	5799.2	5751.8	5678.8	5572.9	5562.0	5445.2	5299.2	5197.0	5091.2
7.5°	6215.3	6233.5	6189.7	6109.4	6003.6	5861.3	5835.7	5697.0	5514.6	5354.0	5200.7
10°	6532.8	6554.7	6496.3	6390.5	6251.8	6109.4	6091.2	5948.9	5755.4	5565.6	5372.2
12.5°	6802.9	6810.2	6748.1	6605.8	6456.2	6310.2	6291.9	6160.5	5981.7	5788.3	5576.6
15°	6959.8	6963.4	6886.8	6729.9	6587.5	6459.8	6448.9	6335.7	6171.5	5989.0	5762.7
17.5°	6948.9	6956.1	6901.4	6762.7	6638.6	6562.0	6551.0	6478.1	6350.3	6186.1	5959.8
20°	6813.8	6821.1	6784.6	6693.4	6627.7	6605.8	6609.4	6587.5	6510.9	6375.9	6145.9
22.5°	6708.0	6718.9	6686.1	6620.4	6613.1	6664.2	6675.1	6686.1	6649.6	6529.1	6306.5
25°	6759.1	6777.3	6726.2	6635.0	6649.6	6762.7	6784.6	6821.1	6791.9	6689.7	6496.3
27.5°	7113.1	7124.0	6992.6	6806.5	6762.7	6883.2	6916.0	6974.4	6952.5	6857.6	6708.0
30°	7934.2	7926.9	7645.9	7189.7	7007.2	7054.7	7080.2	7164.2	7171.5	7109.4	6967.1
32.5°	9091.2	9054.7	8620.4	7894.1	7364.9	7248.1	7277.3	7390.5	7474.4	7408.7	7215.3
35°	10313.8	10280.9	9802.8	8952.5	8025.5	7620.4	7587.5	7675.1	7802.9	7620.4	7343.0
37.5°	11478.0	11426.9	10937.9	9886.8	8839.3	8273.7	8226.2	8138.6	8062.0	7711.6	7499.9
40°	12770.0	12711.6	12284.6	11094.8	9737.1	8773.7	8653.2	8306.5	8237.2	8014.5	7908.7
42.5°	14149.5	14149.5	13795.5	12624.0	10821.1	9489.0	9332.0	8810.1	8883.1	8737.2	8613.1
45°	15529.1	15569.2	15288.2	14164.1	12270.0	10839.3	10587.5	9846.6	10021.8	9956.1	9894.1
47.5°	16704.2	16780.9	16726.1	15737.1	14043.7	12481.7	12098.4	11328.4	11704.3	11861.2	12036.4
50°	17970.7	18054.6	17999.9	17609.4	16120.3	14470.7	14127.6	13332.0	13978.0	14448.8	15021.8
52.5°	19850.2	19970.6	19514.4	19364.8	18642.2	16729.8	16423.2	15518.1	16689.7	17470.7	18748.0
55°	21437.8	21434.1	21273.6	21616.6	21350.2	19492.5	19153.1	18332.0	19828.3	20656.8	22525.4
57.5°	22175.0	22262.6	22813.7	23784.5	24317.3	22868.4	22543.6	21704.2	23196.9	23627.6	25645.8
60°	22554.6	22664.1	23729.7	25649.4	27083.7	26554.5	26426.8	25357.5	26196.9	26145.8	28277.2
62.5°	22021.7	22240.7	23952.4	26503.4	29058.2	30258.9	30218.7	28602.0	28747.9	28248.0	29908.5
65°	19576.5	19813.7	22499.8	26076.4	30185.9	33076.4	33087.3	31539.9	30707.8	29269.8	29634.8
67.5°	13999.9	14339.3	17660.4	23331.9	29788.1	34598.3	34726.0	32872.0	31167.6	28364.7	26758.9
70°	7631.3	7879.5	10481.7	16959.7	26204.2	34233.3	34470.5	32229.7	29138.5	24536.3	20598.4
72.5°	3467.1	3547.4	4875.9	9306.5	17901.3	29466.9	30459.6	28762.5	23930.5	18123.9	13098.4
75°	1587.6	1624.1	2124.1	4452.5	9353.9	19718.8	20415.9	21423.2	16653.2	11445.2	6828.4
77.5°	996.3	1007.3	1208.0	2036.5	4664.2	9843.0	10576.6	12755.4	9751.7	5664.2	2854.0
80°	587.6	598.5	751.8	1102.2	2189.8	4503.6	5200.7	5043.8	4583.9	2445.2	1299.3
82.5°	295.6	306.6	434.3	627.7	1193.4	1792.0	2109.5	2120.4	1708.0	1324.8	733.6
85°	105.8	109.5	142.3	248.2	507.3	591.2	660.6	806.6	835.8	770.1	354.0
87.5°	0.0	0.0	3.6	7.3	14.6	58.4	62.0	116.8	244.5	273.7	142.3
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°	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6
2.5°	5018.2	4963.5	4945.2	4927.0	4897.8	4886.8	4864.9	4843.0	4843.0	4821.1	4810.2
5°	5043.8	4970.8	4923.3	4901.4	4883.2	4894.1	4894.1	4901.4	4927.0	4912.4	4919.7
7.5°	5135.0	5051.1	4985.4	4967.1	4967.1	5010.9	5040.1	5076.6	5124.0	5131.3	5131.3
10°	5295.6	5197.0	5127.7	5116.7	5135.0	5197.0	5240.8	5284.6	5343.0	5346.7	5354.0
12.5°	5470.8	5372.2	5302.9	5317.5	5335.7	5416.0	5463.5	5500.0	5558.4	5558.4	5554.7
15°	5653.2	5543.8	5485.4	5514.6	5569.3	5660.5	5667.8	5671.5	5700.7	5693.4	5689.7
17.5°	5843.0	5726.2	5682.4	5726.2	5784.6	5828.4	5791.9	5740.8	5729.9	5715.3	5708.0
20°	6029.1	5908.7	5890.5	5923.3	5941.6	5905.1	5791.9	5697.0	5653.2	5631.3	5624.0
22.5°	6189.7	6087.5	6076.6	6076.6	5985.4	5857.6	5689.7	5562.0	5503.6	5474.4	5467.1
25°	6379.5	6284.6	6266.4	6167.8	5934.3	5700.7	5474.4	5357.6	5310.2	5295.6	5299.2
27.5°	6602.1	6536.4	6478.1	6197.0	5788.3	5423.3	5167.8	5116.7	5098.5	5116.7	5127.7
30°	6875.9	6810.2	6678.8	6160.5	5554.7	5062.0	4817.5	4813.8	4868.6	4916.0	4923.3
32.5°	7098.5	7069.3	6854.0	6043.7	5226.2	4664.2	4456.2	4470.8	4569.3	4635.0	4645.9
35°	7273.7	7321.1	6999.9	5850.3	4835.7	4288.3	4124.1	4131.4	4186.1	4277.3	4281.0
37.5°	7521.8	7682.4	7131.3	5554.7	4386.8	3963.5	3813.8	3759.1	3751.8	3777.3	3784.6
40°	8021.8	8262.7	7226.2	5124.0	3952.5	3671.5	3503.6	3397.8	3306.5	3237.2	3215.3
42.5°	8777.3	9054.7	7281.0	4602.2	3565.7	3383.2	3193.4	3058.4	2897.8	2751.8	2700.7
45°	10164.2	10255.4	7281.0	4047.4	3222.6	3113.1	2923.3	2762.8	2558.4	2386.8	2350.3
47.5°	12383.1	12091.1	7288.3	3510.9	2919.7	2875.9	2711.7	2529.2	2302.9	2160.6	2138.7
50°	15726.2	14700.6	7437.9	3065.7	2667.9	2675.2	2554.7	2354.0	2149.6	2043.8	2025.5
52.5°	19514.4	17915.9	7839.4	2737.2	2456.2	2510.9	2445.2	2251.8	2069.3	1978.1	1959.8
55°	23076.5	20872.1	8182.4	2503.6	2277.4	2372.2	2368.6	2189.8	2025.5	1934.3	1923.3
57.5°	26105.6	22897.6	8131.3	2313.9	2124.1	2244.5	2299.3	2149.6	1996.3	1919.7	1908.7
60°	27988.8	23970.6	7405.1	2138.7	2007.3	2153.3	2259.1	2138.7	2010.9	1992.7	1996.3
62.5°	28806.3	23773.5	6010.9	2007.3	1930.6	2109.5	2302.9	2215.3	2146.0	2189.8	2215.3
65°	27536.3	22080.1	4423.3	1908.7	1857.6	2120.4	2405.1	2335.7	2146.0	2175.2	2186.1
67.5°	24010.8	18795.5	3197.1	1810.2	1766.4	2153.3	2551.1	2317.5	2021.9	2021.9	2000.0
70°	17302.8	13518.1	2321.1	1711.7	1675.2	2105.8	2558.4	2193.4	1879.5	1868.6	1813.9
72.5°	10412.3	7974.4	1810.2	1602.2	1536.5	1868.6	2397.8	2047.4	1740.9	1649.6	1583.9
75°	5408.7	3996.3	1518.2	1481.7	1317.5	1583.9	2193.4	1821.2	1489.0	1408.7	1372.3
77.5°	2317.5	1868.6	1302.9	1321.2	1094.9	1332.1	1770.1	1576.6	1321.2	1219.0	1186.1
80°	1142.3	1062.0	1029.2	1058.4	875.9	1029.2	1525.5	1379.6	1120.4	1003.6	956.2
82.5°	653.3	620.4	740.9	751.8	624.1	861.3	1288.3	1167.9	927.0	799.3	722.6
85°	302.9	324.8	448.9	452.6	386.9	591.2	843.1	656.9	492.7	408.8	390.5
87.5°	120.4	142.3	197.1	193.4	113.1	109.5	73.0	40.1	32.8	29.2	25.5
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)