

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: P643783

Luminaire Tested: GWS-SA6F-750-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643783
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-SA6F-750-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51755.4 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

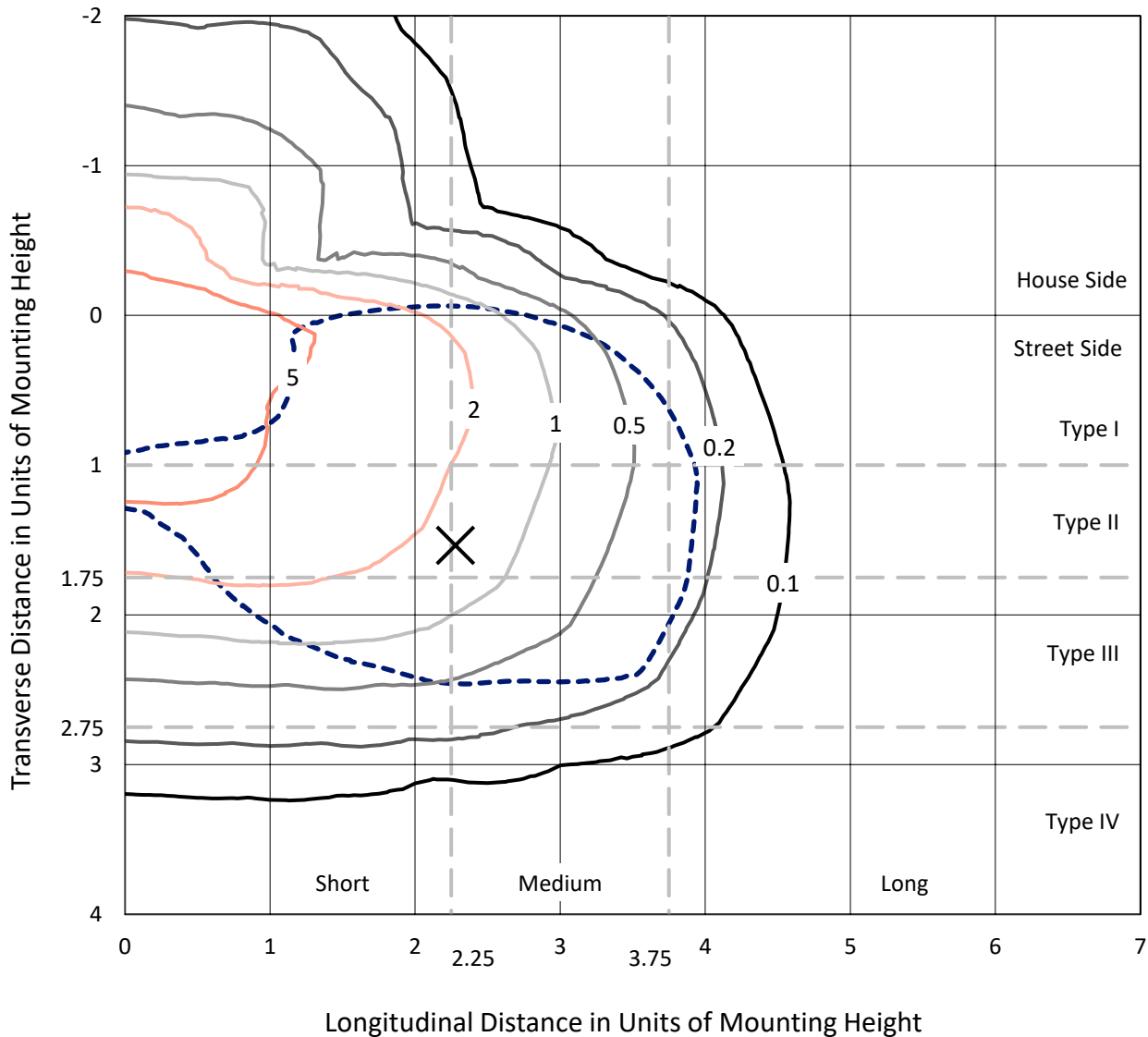
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

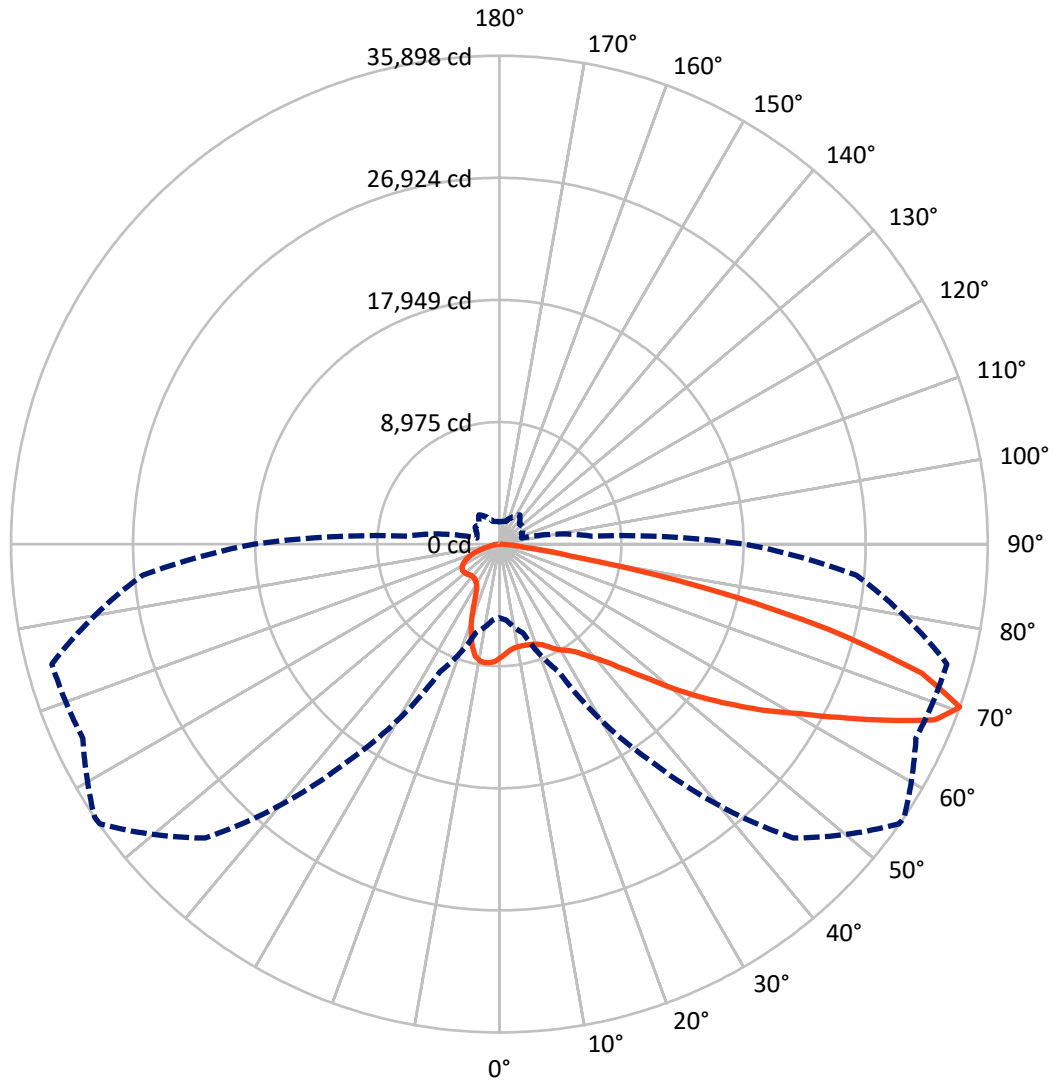
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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
House Side	Lumens	9950.1	0.0	9950.1
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	41805.3	0.0	41805.3
	% Fixture	80.8	0.0	80.8
Total	Lumens	51755.4	0.0	51755.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.1	1.5
10°-20°	2094.7	4.0
20°-30°	3463.1	6.7
30°-40°	5177.8	10.0
40°-50°	7705.2	14.9
50°-60°	10954.6	21.2
60°-70°	13567.7	26.2
70°-80°	7491.6	14.5
80°-90°	527.6	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°	51755.4	100.0
0°-180°	51755.4	100.0

Coefficient of Utilization



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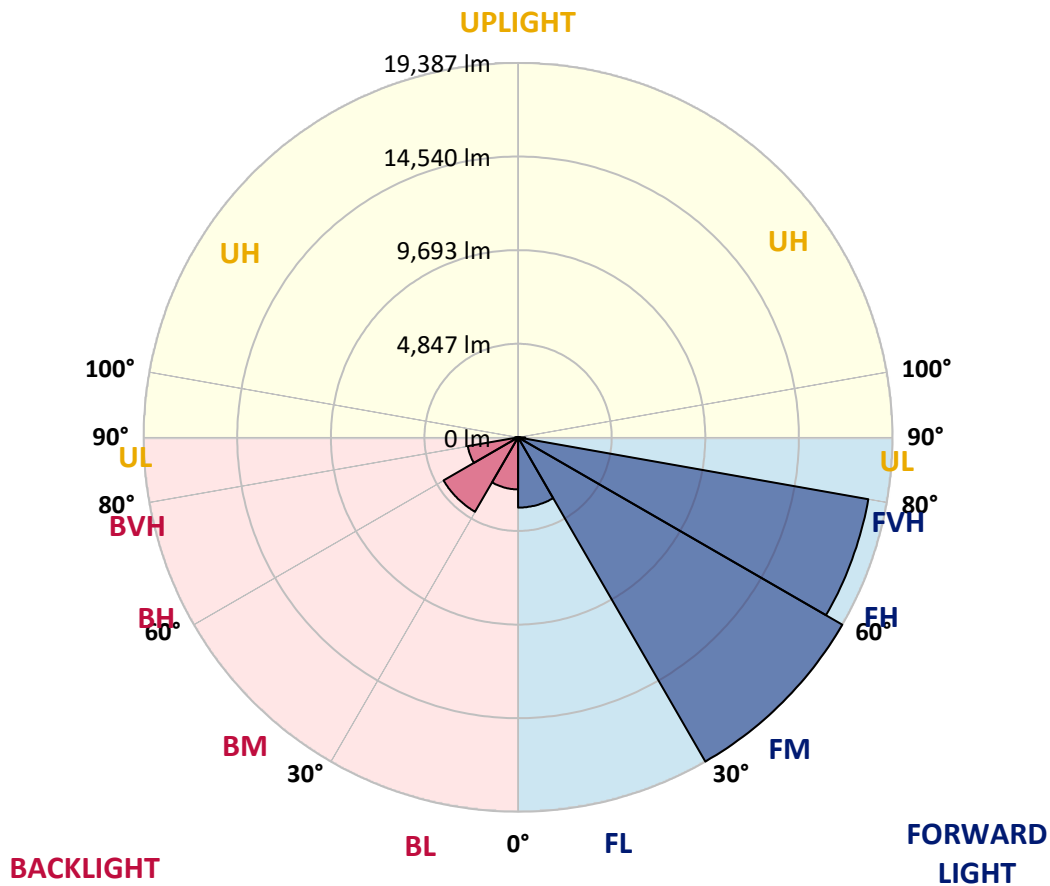
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3637.3	7.0			
FM (30°-60°)	19386.8	37.5			
FH (60°-80°)	18414.6	35.6			G5
FVH (80°-90°)	366.6	0.7			G3/500
BL (0°-30°)	2693.5	5.2	B4/5000		
BM (30°-60°)	4450.9	8.6	B3/5000		
BH (60°-80°)	2644.7	5.1	B4/5000		G4/5000
BVH (80°-90°)	161.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8354.1	8354.1	8354.1	8354.1	8354.1	8354.1	8354.1	8354.1	8354.1	8354.1	8354.1
2.5°	7817.6	7773.8	7824.9	7850.5	7916.2	8011.0	8095.0	8098.6	8142.4	8248.3	8350.5
5°	7463.6	7441.7	7456.3	7532.9	7602.3	7722.7	7850.5	7861.4	7985.5	8193.5	8397.9
7.5°	7189.9	7160.7	7215.4	7314.0	7401.6	7536.6	7704.5	7719.1	7894.3	8208.1	8522.0
10°	6795.7	6773.8	6876.0	7007.4	7197.2	7419.8	7642.4	7660.7	7890.6	8303.0	8741.0
12.5°	6624.2	6624.2	6668.0	6792.1	7000.1	7295.7	7631.5	7660.7	7949.0	8449.0	9022.0
15°	6890.6	6908.8	6872.3	6865.0	6949.0	7230.0	7646.1	7689.9	8058.5	8598.6	9299.4
17.5°	7427.1	7445.3	7350.5	7200.8	7116.9	7292.1	7700.8	7748.3	8175.3	8762.9	9598.7
20°	8178.9	8200.8	7992.8	7762.9	7474.5	7470.9	7806.7	7850.5	8324.9	8941.7	9916.2
22.5°	9058.5	9073.1	8810.3	8445.4	8003.7	7803.0	7989.1	8032.9	8518.4	9189.9	10259.3
25°	10076.8	10120.6	9803.0	9273.8	8675.3	8259.2	8292.1	8343.2	8865.1	9522.0	10664.4
27.5°	11164.4	11219.1	10854.1	10270.2	9445.4	8762.9	8682.6	8726.4	9233.7	9726.4	10879.7
30°	12277.5	12317.7	11952.7	11284.8	10273.8	9332.2	9011.1	9036.6	9394.3	9824.9	11098.7
32.5°	13514.8	13481.9	13131.5	12361.5	11230.1	10014.7	9317.6	9310.3	9573.1	10022.0	11412.5
35°	14675.4	14722.8	14350.5	13500.2	12281.2	10857.8	9777.5	9748.3	9952.7	10343.2	11854.2
37.5°	16080.5	16065.9	15620.6	14700.9	13335.9	11664.4	10423.5	10372.4	10445.4	10843.2	12471.0
40°	17084.2	17186.3	16898.0	16040.3	14569.5	12657.1	11179.0	11065.8	11084.1	11460.0	13295.8
42.5°	17905.3	18000.2	18029.4	17482.0	15981.9	13883.4	12120.6	12007.4	12018.4	12551.2	14310.4
45°	18536.7	18664.5	19076.9	18916.3	17573.2	15299.5	13394.3	13277.5	13284.8	13876.1	15536.7
47.5°	18795.9	18934.5	19770.3	20153.5	19263.0	16992.9	14978.3	14806.8	14832.3	15485.6	16938.2
50°	18711.9	18898.0	20029.4	21106.1	20679.1	18715.6	16872.5	16752.0	16653.5	17602.4	18460.1
52.5°	17989.3	18193.7	20003.9	21711.9	21836.0	20343.3	18828.7	18759.4	18737.5	19850.6	20160.8
55°	15861.5	16204.6	19124.3	21872.5	22741.2	21876.2	20949.2	20832.4	20945.5	22259.4	21879.8
57.5°	14682.7	14938.1	17401.7	21693.7	23482.0	23336.1	23066.0	23076.9	23204.7	24876.2	23963.8
60°	14011.1	14310.4	16445.5	21204.6	24193.7	25109.8	25281.3	25281.3	25511.3	27697.4	26080.6
62.5°	13120.6	13423.5	15551.3	20263.0	24850.7	27197.4	28066.0	28055.1	28146.3	30723.0	28150.0
65°	11314.0	11595.0	13755.6	18777.6	25171.8	29496.7	31230.3	31197.5	31015.0	33416.5	29518.6
67.5°	8215.4	8481.9	10536.6	15952.8	24014.9	31350.8	34489.5	34504.1	33412.8	35113.6	29591.6
70°	5416.1	5598.6	6773.8	10361.4	19529.4	30551.5	35854.5	35898.3	33781.4	34055.2	26336.1
72.5°	3379.6	3507.3	4230.0	6178.9	11540.3	24182.8	32350.8	32471.2	30390.9	29927.4	21639.0
75°	2244.6	2332.1	2813.9	3602.2	5339.5	13087.8	24591.5	24978.4	24358.0	23460.1	15076.8
77.5°	1350.4	1423.4	1792.0	2288.3	2365.0	5113.2	14354.2	15354.2	15441.8	12248.3	6313.9
80°	616.8	700.7	989.1	1306.6	1259.1	1781.0	5062.1	5295.7	6248.3	3890.6	1992.7
82.5°	365.0	401.5	656.9	649.6	536.5	865.0	1821.2	1868.6	1587.6	1423.4	850.4
85°	146.0	171.5	277.4	244.5	197.1	281.0	686.1	719.0	689.8	620.4	313.9
87.5°	0.0	0.0	0.0	0.0	3.6	7.3	62.0	65.7	94.9	171.5	94.9
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°	8354.1	8354.1	8354.1	8354.1	8354.1	8354.1	8354.1	8354.1	8354.1	8354.1	8354.1
2.5°	8416.2	8394.3	8503.8	8587.7	8624.2	8660.7	8627.8	8616.9	8616.9	8543.9	8507.4
5°	8507.4	8518.4	8668.0	8737.3	8737.3	8708.1	8620.5	8558.5	8536.6	8441.7	8416.2
7.5°	8678.9	8726.4	8865.1	8861.4	8759.2	8598.6	8379.7	8211.8	8058.5	7992.8	7952.7
10°	8960.0	9022.0	9116.9	8963.6	8678.9	8255.6	7792.1	7427.1	7208.1	7032.9	7032.9
12.5°	9281.1	9339.5	9321.3	8967.3	8379.7	7587.7	6919.8	6500.1	6193.5	6032.9	6032.9
15°	9602.3	9649.8	9452.7	8799.4	7755.6	6700.8	5970.9	5467.2	5200.8	5051.2	5051.2
17.5°	9927.1	9923.5	9507.4	8412.5	6941.7	5719.0	5003.7	4613.2	4522.0	4496.4	4492.8
20°	10241.0	10157.1	9438.1	7766.5	5996.4	4730.0	4277.4	4303.0	4438.0	4496.4	4503.7
22.5°	10595.0	10387.0	9233.7	6941.7	4923.4	4043.8	4073.0	4284.7	4481.8	4569.4	4580.3
25°	10956.3	10584.1	8890.6	5974.5	4025.6	3792.0	4018.3	4255.5	4478.2	4591.3	4602.2
27.5°	11102.3	10584.1	8306.7	4854.1	3547.5	3686.2	3934.4	4164.3	4397.9	4529.3	4554.8
30°	11222.8	10492.8	7489.1	3843.1	3350.4	3584.0	3799.3	4011.0	4240.9	4401.5	4430.7
32.5°	11390.7	10412.5	6500.1	3230.0	3259.2	3485.4	3635.1	3813.9	4021.9	4127.8	4116.8
35°	11587.7	10288.4	5306.6	2938.0	3182.5	3401.5	3507.3	3613.2	3518.3	3514.6	3525.6
37.5°	11868.8	10179.0	4266.5	2806.6	3131.4	3343.1	3430.7	3204.4	3073.0	3018.3	2996.4
40°	12273.9	10135.2	3365.0	2730.0	3124.1	3339.5	3277.4	2927.0	2748.2	2558.4	2554.8
42.5°	12784.8	10102.3	2781.1	2693.5	3149.7	3423.4	3065.7	2744.6	2375.9	2292.0	2284.7
45°	13441.8	10051.2	2489.1	2686.2	3211.7	3489.1	3043.8	2492.7	2240.9	2204.4	2204.4
47.5°	14233.8	9970.9	2357.7	2686.2	3281.1	3459.9	2978.1	2438.0	2178.9	2219.0	2244.6
50°	15142.5	9868.7	2288.3	2678.9	3350.4	3459.9	2839.5	2427.0	2164.3	2372.3	2456.2
52.5°	16113.3	9751.9	2240.9	2649.7	3397.9	3463.5	2846.8	2463.5	2178.9	2408.8	2478.1
55°	17186.3	9733.7	2175.2	2587.6	3412.5	3368.7	2865.0	2543.8	2200.8	2182.5	2186.2
57.5°	18540.4	9952.7	2127.8	2496.4	3354.1	3175.2	2901.5	2602.2	2175.2	2178.9	2204.4
60°	19956.5	10365.1	2167.9	2408.8	3233.6	2992.7	2927.0	2573.0	2051.1	1992.7	2000.0
62.5°	21160.8	10679.0	2200.8	2368.6	3058.4	2832.2	2901.5	2507.3	1981.8	1967.2	2000.0
65°	21664.5	10419.8	2120.5	2284.7	2803.0	2635.1	2846.8	2423.4	1923.4	1868.6	1872.3
67.5°	21106.1	9204.5	1963.5	2098.6	2514.6	2383.2	2759.2	2313.9	1843.1	1777.4	1762.8
70°	18029.4	6762.9	1693.5	1802.9	2164.3	2087.6	2624.1	2171.6	1715.3	1667.9	1635.1
72.5°	14529.4	4788.4	1405.1	1434.3	1697.1	1759.1	2390.5	1992.7	1569.4	1434.3	1386.9
75°	10113.3	3007.3	1171.5	1142.3	1226.3	1343.1	1865.0	1653.3	1354.0	1211.7	1167.9
77.5°	4350.4	1543.8	916.1	901.5	817.5	930.7	1430.7	1379.6	1135.1	970.8	945.3
80°	1456.2	894.2	660.6	635.0	543.8	653.3	1007.3	1102.2	890.5	719.0	675.2
82.5°	729.9	518.3	419.7	379.6	365.0	412.4	594.9	686.1	616.8	496.4	419.7
85°	357.7	295.6	229.9	226.3	189.8	178.8	248.2	292.0	277.4	204.4	193.4
87.5°	131.4	116.8	73.0	58.4	36.5	25.5	14.6	14.6	10.9	10.9	10.9
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)