

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: P643675

Luminaire Tested: GWS-SA6F-735-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-735-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47414.7 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

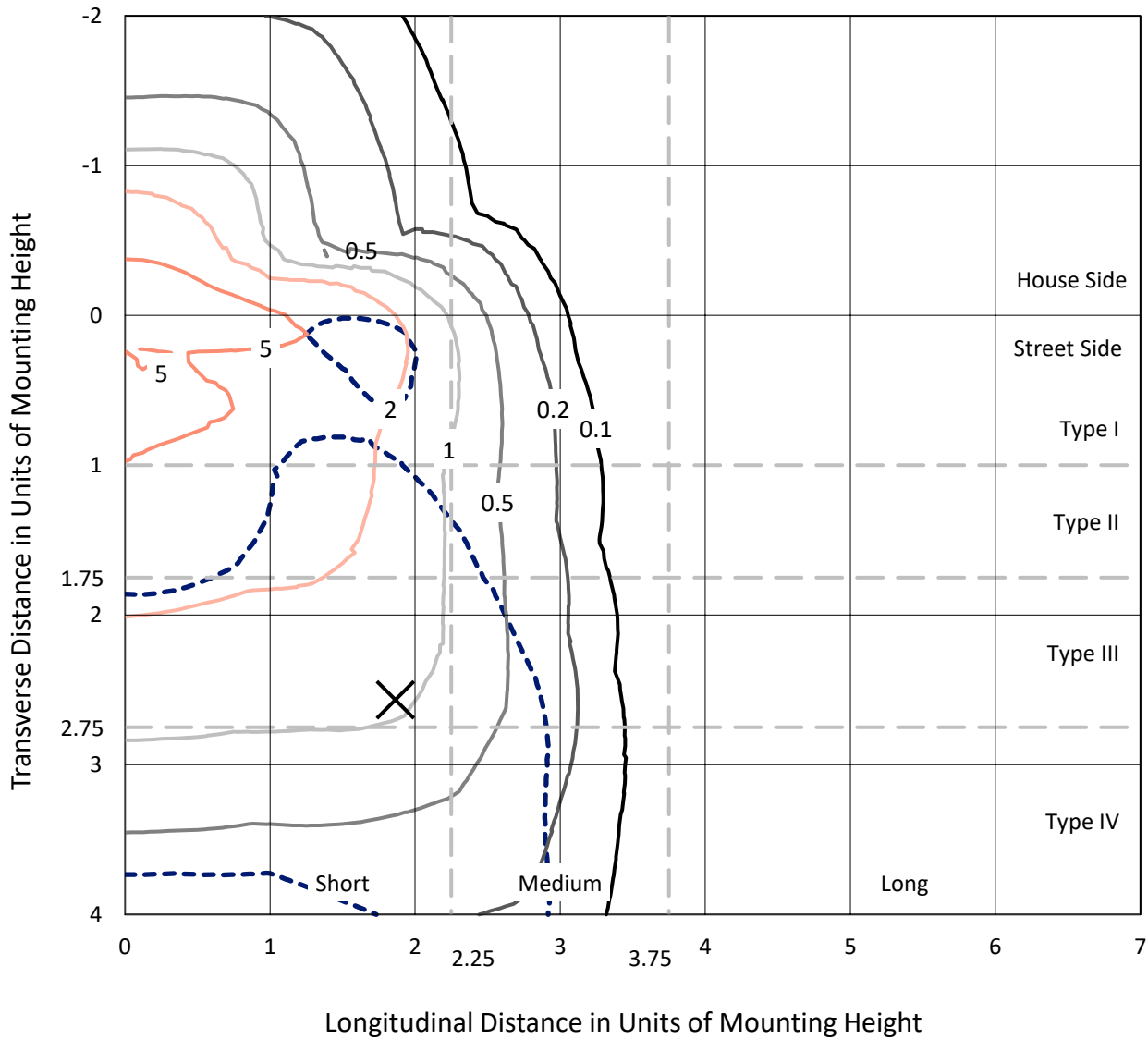
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

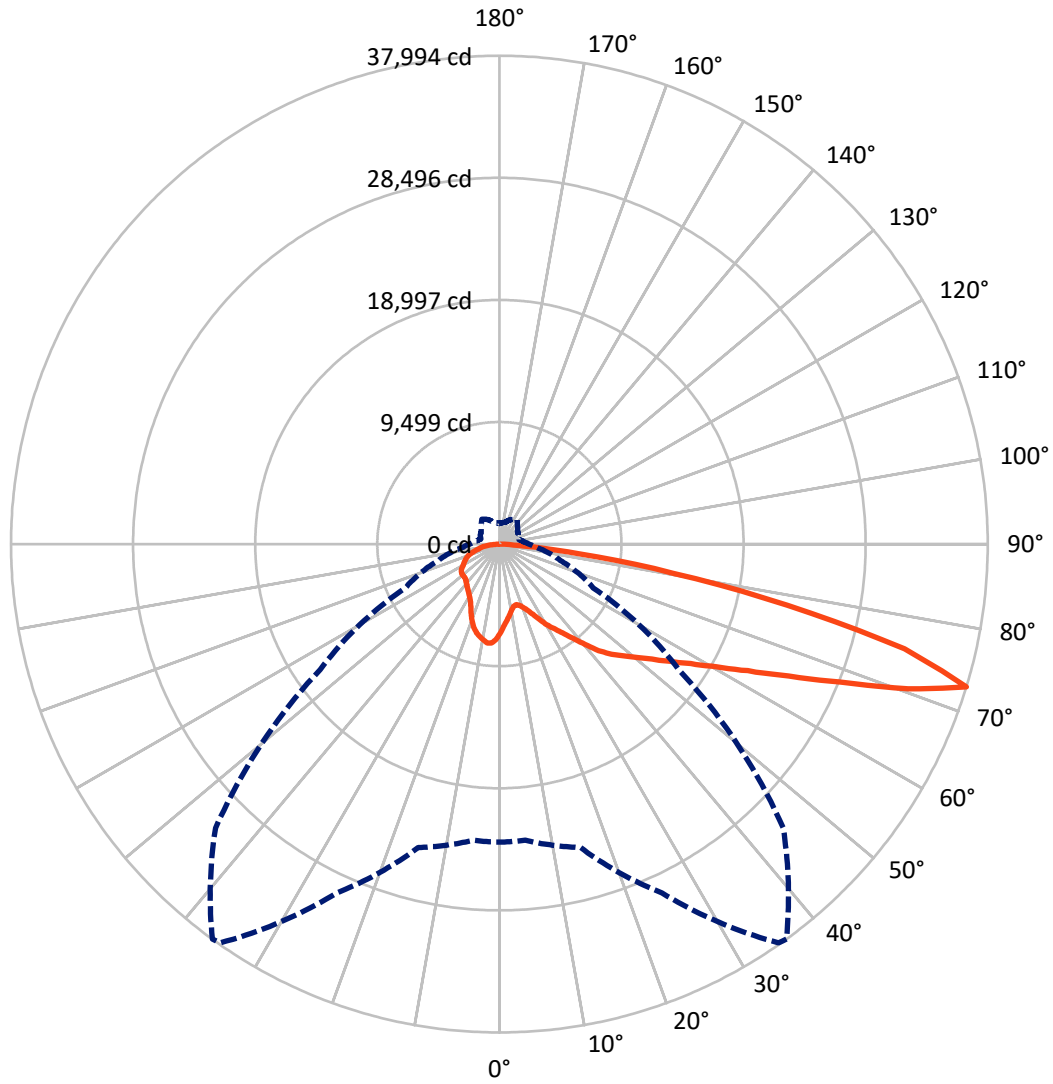
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10931.1	0.0	10931.1
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	36483.6	0.0	36483.6
	% Fixture	76.9	0.0	76.9
Total	Lumens	47414.7	0.0	47414.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.6	1.4
10°-20°	1830.1	3.9
20°-30°	3030.8	6.4
30°-40°	4538.9	9.6
40°-50°	6621.9	14.0
50°-60°	9425.0	19.9
60°-70°	11907.8	25.1
70°-80°	8485.3	17.9
80°-90°	926.3	2.0
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°	47414.7	100.0
0°-180°	47414.7	100.0

Coefficient of Utilization



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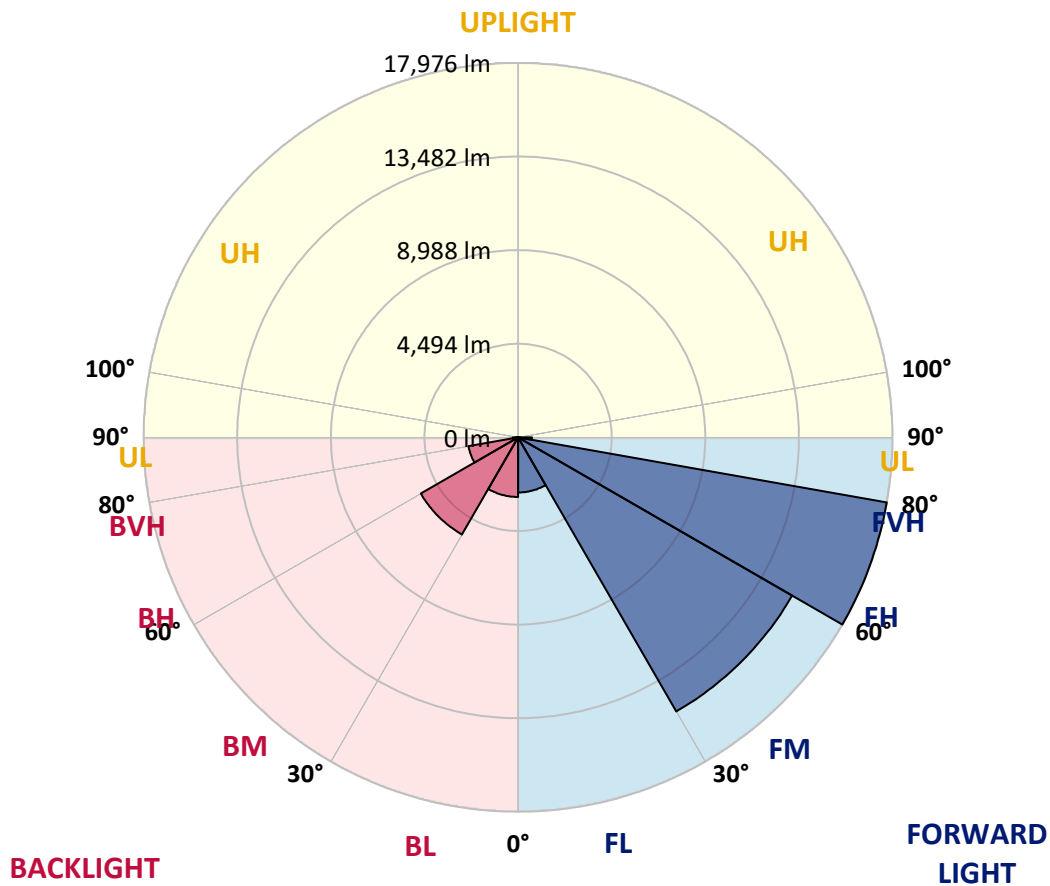
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2647.0	5.6			
FM (30°-60°)	15195.2	32.0			
FH (60°-80°)	17976.5	37.9			G5
FVH (80°-90°)	664.9	1.4			G4/750
BL (0°-30°)	2862.5	6.0	B4/5000		
BM (30°-60°)	5390.6	11.4	B4/8500		
BH (60°-80°)	2416.6	5.1	B3/2500		G3/2500
BVH (80°-90°)	261.4	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	6939.4	6939.4	6939.4	6939.4	6939.4	6939.4	6939.4	6939.4	6939.4	6939.4	6939.4
2.5°	6330.6	6320.0	6298.9	6362.2	6425.6	6418.6	6506.5	6591.0	6682.5	6777.5	6904.2
5°	5823.8	5816.8	5799.2	5894.2	5989.2	5985.7	6130.0	6267.2	6453.7	6657.8	6911.2
7.5°	5317.1	5299.5	5324.2	5443.8	5577.5	5591.6	5788.7	6013.9	6284.8	6591.0	6949.9
10°	4870.2	4866.7	4877.3	5011.0	5211.6	5225.6	5479.0	5792.2	6151.1	6559.3	7037.9
12.5°	4754.1	4747.1	4718.9	4785.8	4937.1	4958.2	5236.2	5619.8	6059.6	6576.9	7157.5
15°	4944.1	4926.5	4828.0	4796.3	4870.2	4887.8	5123.6	5517.7	6006.8	6608.6	7308.8
17.5°	5271.4	5260.8	5074.3	4944.1	4993.4	5007.5	5183.4	5500.1	5992.8	6671.9	7495.3
20°	5750.0	5704.2	5412.1	5215.1	5215.1	5236.2	5341.8	5577.5	6010.4	6749.3	7706.5
22.5°	6383.4	6291.9	5880.2	5612.7	5542.3	5570.5	5616.2	5771.1	6084.3	6879.5	7970.4
25°	7094.2	7009.7	6520.6	6144.1	6045.5	6056.1	6017.4	6045.5	6246.1	7059.0	8297.7
27.5°	7850.8	7794.5	7273.7	6795.1	6640.2	6640.2	6503.0	6436.1	6471.3	7263.1	8663.6
30°	8526.4	8449.0	8009.1	7484.8	7280.7	7280.7	7020.3	6876.0	6791.6	7512.9	9152.8
32.5°	8881.8	8836.1	8544.0	8142.8	7893.0	7854.3	7629.1	7460.2	7263.1	7882.4	9814.3
35°	9346.3	9335.8	9159.8	8846.6	8529.9	8473.6	8318.8	8185.1	7843.7	8343.4	10694.1
37.5°	9930.5	9912.9	9884.7	9698.2	9318.2	9307.6	9170.4	9008.5	8565.1	9008.5	11760.3
40°	10585.0	10553.3	10518.1	10514.6	10285.9	10247.2	10236.6	10053.6	9434.3	9810.8	12872.3
42.5°	11485.8	11376.7	11046.0	11193.8	11362.7	11327.5	11461.2	11186.7	10518.1	10764.4	13924.5
45°	12594.3	12326.9	11672.3	11714.6	12140.4	12210.7	12675.2	12608.4	11711.0	11865.9	15032.9
47.5°	13259.4	13027.1	12418.3	12383.2	12914.5	13002.5	14012.4	14139.1	12995.5	13192.5	16401.8
50°	13804.8	13642.9	13143.2	13192.5	13755.5	13843.5	15339.1	15610.0	14206.0	14550.8	17992.4
52.5°	14462.9	14230.6	13843.5	14075.8	14765.5	14871.0	16813.5	17105.6	15296.8	16042.9	19639.2
55°	14832.3	14737.3	14744.4	15099.8	15965.4	16109.7	18358.3	18309.1	16296.2	17320.2	20877.9
57.5°	15683.9	15648.7	15972.5	16106.2	17366.0	17552.5	19903.1	19480.9	17204.1	18309.1	21472.6
60°	17186.5	17098.5	17380.1	17584.2	19097.3	19361.2	21627.4	20628.0	17819.9	19044.5	21272.0
62.5°	19297.9	19188.8	19199.3	19523.1	21416.3	21694.3	23545.2	21585.2	18009.9	19157.1	20001.7
65°	21923.0	21764.7	21585.2	22025.1	24495.4	24727.6	25632.0	22281.9	17556.0	18073.3	17348.4
67.5°	24692.4	24562.2	24351.1	25273.0	28482.3	28623.1	27972.1	22222.1	16116.8	15173.7	12168.5
70°	24854.3	24886.0	25885.3	29221.3	33686.8	33722.0	30185.5	21018.6	13051.8	9835.4	6063.1
72.5°	23186.3	23133.5	24435.5	29942.7	37874.4	37994.0	31230.6	17028.2	8065.4	4905.4	2843.3
75°	18833.4	18924.9	20293.7	26198.5	32462.2	32567.8	25459.5	10039.5	3832.1	2399.9	1819.3
77.5°	8107.6	8617.9	11316.9	18456.9	23249.7	22922.4	13122.1	4067.9	2044.5	1710.2	1393.5
80°	2340.1	2540.7	4032.7	8776.2	13931.5	13685.2	5194.0	1523.7	1425.2	1284.4	999.4
82.5°	756.6	837.5	1478.0	3494.3	6242.6	6235.6	1970.6	900.8	932.5	872.7	644.0
85°	211.1	242.8	453.9	1059.2	1931.9	1893.2	570.1	425.8	496.2	503.2	320.2
87.5°	0.0	0.0	3.5	7.0	7.0	7.0	14.1	63.3	144.3	183.0	130.2
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°	6939.4	6939.4	6939.4	6939.4	6939.4	6939.4	6939.4	6939.4	6939.4	6939.4	6939.4
2.5°	6981.6	6971.0	7115.3	7227.9	7333.5	7403.9	7425.0	7439.0	7467.2	7481.3	7467.2
5°	7030.8	7083.6	7322.9	7498.9	7639.6	7724.1	7727.6	7720.6	7741.7	7724.1	7713.5
7.5°	7136.4	7238.5	7541.1	7727.6	7819.1	7822.6	7738.2	7639.6	7590.4	7548.1	7534.1
10°	7277.2	7428.5	7759.3	7882.4	7854.3	7724.1	7537.6	7382.7	7294.8	7231.4	7217.4
12.5°	7470.7	7639.6	7952.8	7949.3	7773.3	7541.1	7322.9	7136.4	7009.7	6935.8	6911.2
15°	7653.7	7868.4	8093.6	7928.2	7650.2	7368.7	7087.1	6837.3	6668.4	6552.3	6531.2
17.5°	7878.9	8107.6	8195.6	7861.3	7495.3	7132.9	6756.4	6429.1	6200.4	6063.1	6052.6
20°	8139.3	8343.4	8244.9	7745.2	7294.8	6819.7	6309.5	5943.5	5697.2	5563.4	5574.0
22.5°	8441.9	8589.7	8259.0	7586.8	7016.8	6376.3	5806.3	5454.4	5289.0	5218.6	5222.1
25°	8765.7	8860.7	8234.3	7372.2	6591.0	5834.4	5289.0	5127.1	5113.0	5095.4	5102.5
27.5°	9149.2	9128.1	8160.4	7069.6	6017.4	5204.5	4926.5	4968.7	5025.0	5018.0	5025.0
30°	9663.0	9462.4	8065.4	6650.8	5334.7	4676.7	4711.9	4831.5	4905.4	4912.4	4933.6
32.5°	10250.7	9831.9	7914.1	6080.7	4683.7	4381.1	4511.3	4655.6	4743.5	4761.1	4789.3
35°	10950.9	10254.2	7646.7	5369.9	4215.7	4205.1	4324.8	4423.3	4518.3	4525.4	4525.4
37.5°	11756.8	10676.5	7220.9	4585.2	3927.1	4053.8	4166.4	4187.5	4212.2	4191.1	4201.6
40°	12495.8	11084.7	6615.6	3870.8	3691.4	3920.1	4015.1	3944.7	3867.3	3814.5	3825.1
42.5°	13115.1	11362.7	5813.3	3371.1	3452.1	3800.5	3874.4	3730.1	3578.8	3480.2	3494.3
45°	13811.8	11619.5	4870.2	3033.3	3248.0	3716.0	3765.3	3578.8	3385.2	3237.4	3216.3
47.5°	14772.5	12143.9	4032.7	2797.6	3103.7	3670.3	3751.2	3497.8	3244.5	3022.8	2998.1
50°	15958.4	12886.4	3332.4	2642.7	3036.8	3645.6	3747.7	3409.9	3107.2	2846.8	2829.2
52.5°	17253.4	13611.3	2815.2	2523.1	2970.0	3571.7	3730.1	3311.3	2962.9	2681.4	2660.3
55°	18115.5	13896.3	2466.8	2410.5	2860.9	3455.6	3659.7	3216.3	2744.8	2487.9	2456.2
57.5°	18368.9	13530.3	2224.0	2308.4	2720.1	3293.7	3526.0	3015.7	2611.1	2407.0	2382.3
60°	17932.5	12608.4	2072.7	2224.0	2565.3	3086.1	3293.7	2899.6	2505.5	2322.5	2304.9
62.5°	16700.9	11186.7	1956.5	2136.0	2407.0	2867.9	3145.9	2758.9	2389.4	2245.1	2220.5
65°	14223.6	9173.9	1861.5	2044.5	2255.6	2660.3	2984.1	2618.1	2262.7	2153.6	2125.4
67.5°	9948.0	6443.2	1759.5	1935.4	2104.3	2459.7	2815.2	2487.9	2132.5	2051.5	2023.4
70°	4863.2	3416.9	1636.3	1808.7	1942.5	2255.6	2646.2	2329.5	1960.1	1914.3	1875.6
72.5°	2315.5	1910.8	1492.0	1636.3	1720.8	1984.7	2364.7	2100.8	1756.0	1657.4	1590.6
75°	1551.9	1358.3	1302.0	1432.2	1453.3	1664.5	2026.9	1812.3	1548.3	1435.7	1379.4
77.5°	1175.3	1038.1	1094.4	1210.5	1168.3	1368.9	1668.0	1615.2	1397.0	1295.0	1266.8
80°	827.0	756.6	869.2	939.6	907.9	1164.8	1502.6	1382.9	1150.7	1038.1	1017.0
82.5°	520.8	506.7	640.4	651.0	661.6	922.0	1235.1	1087.4	893.8	735.5	682.7
85°	260.4	288.6	383.6	383.6	380.0	475.1	703.8	612.3	482.1	383.6	373.0
87.5°	88.0	123.2	165.4	133.7	102.0	80.9	91.5	112.6	119.6	116.1	116.1
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)