

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: P643809

Luminaire Tested: GWS-SA6F-760-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-760-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42050.7 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

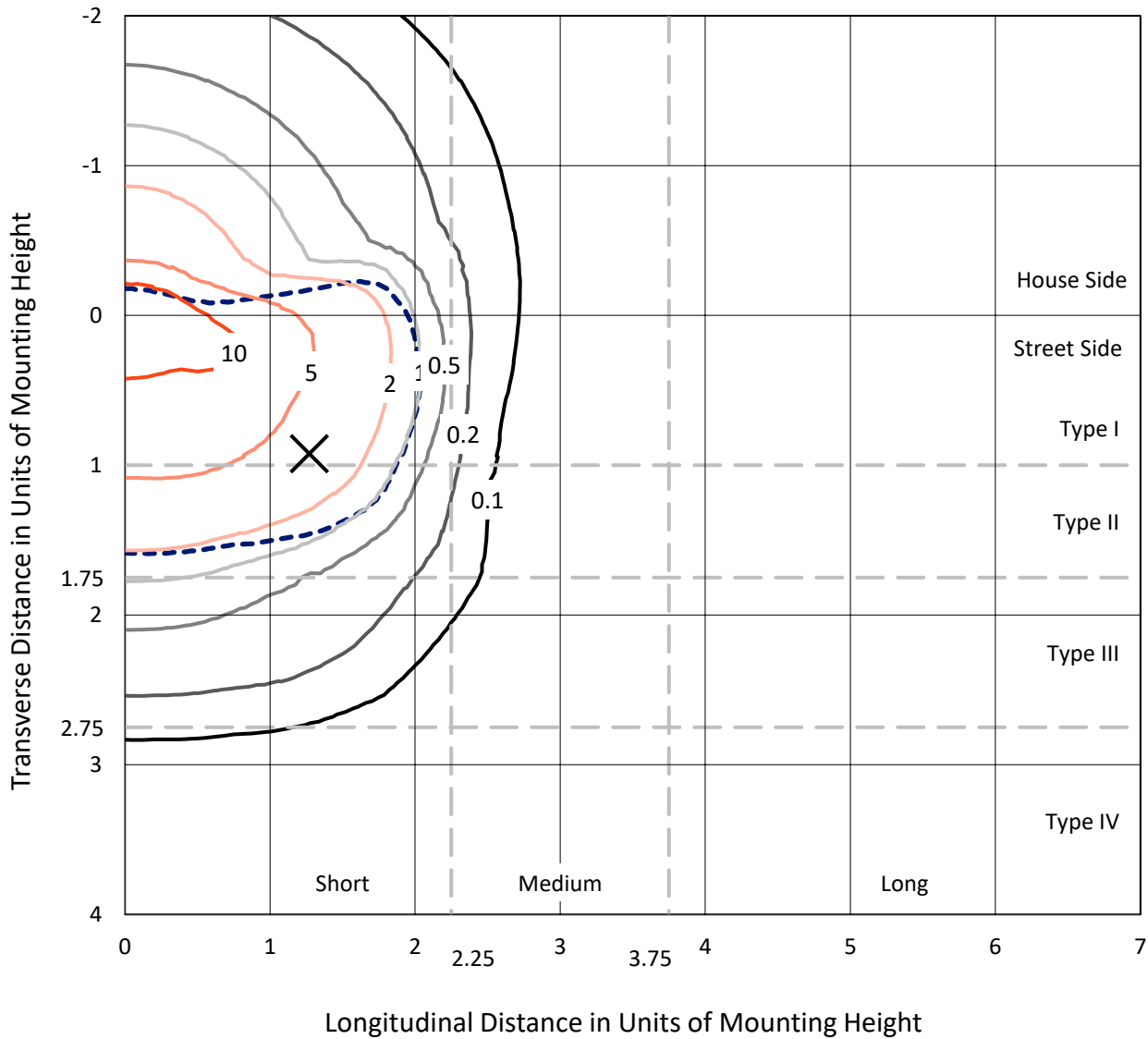
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

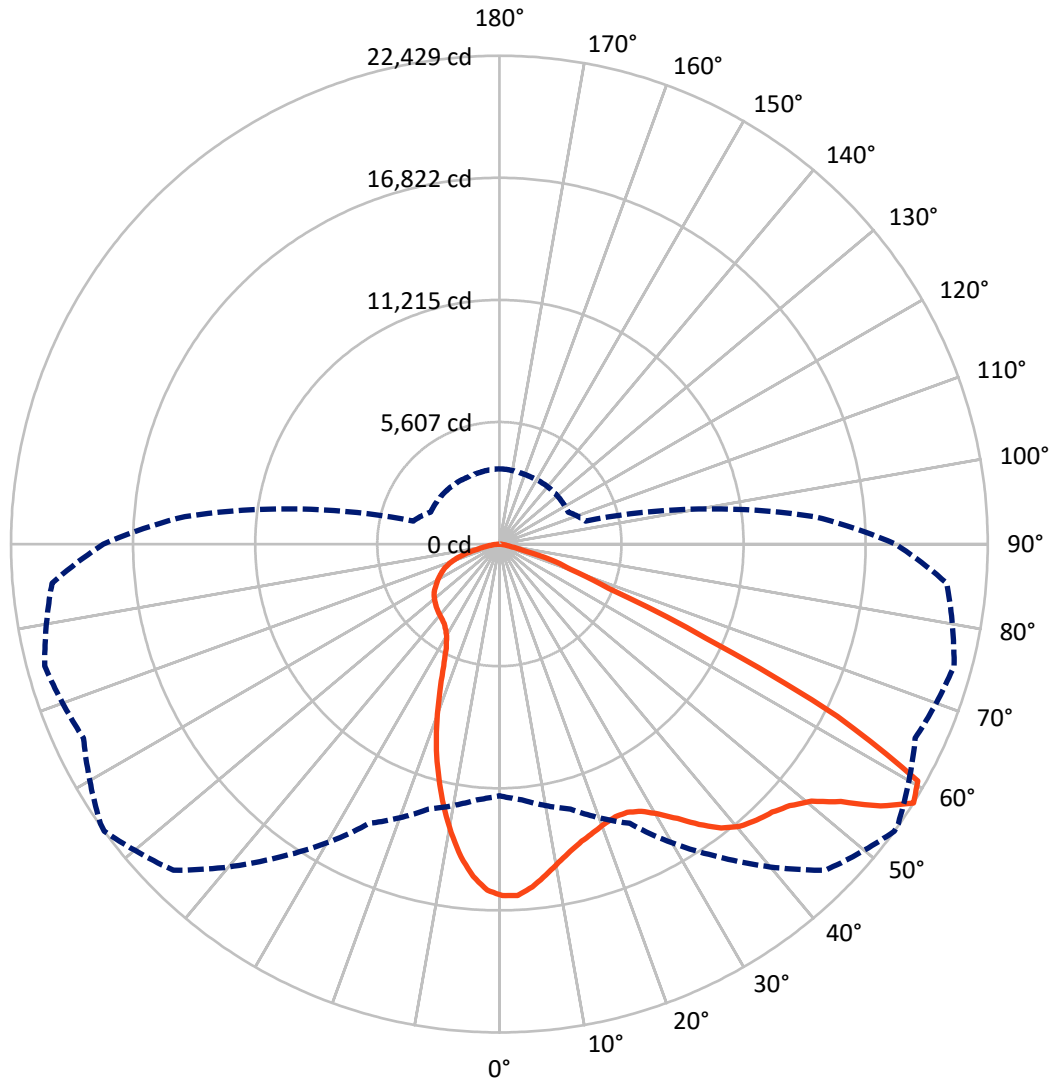
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12224.6	0.0	12224.6
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	29826.1	0.0	29826.1
	% Fixture	70.9	0.0	70.9
Total	Lumens	42050.7	0.0	42050.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1419.1	3.4
10°-20°	3386.1	8.1
20°-30°	4685.8	11.1
30°-40°	6510.9	15.5
40°-50°	8598.9	20.4
50°-60°	10218.6	24.3
60°-70°	5661.3	13.5
70°-80°	1409.8	3.4
80°-90°	160.3	0.4
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°	42050.7	100.0
0°-180°	42050.7	100.0

Coefficient of Utilization



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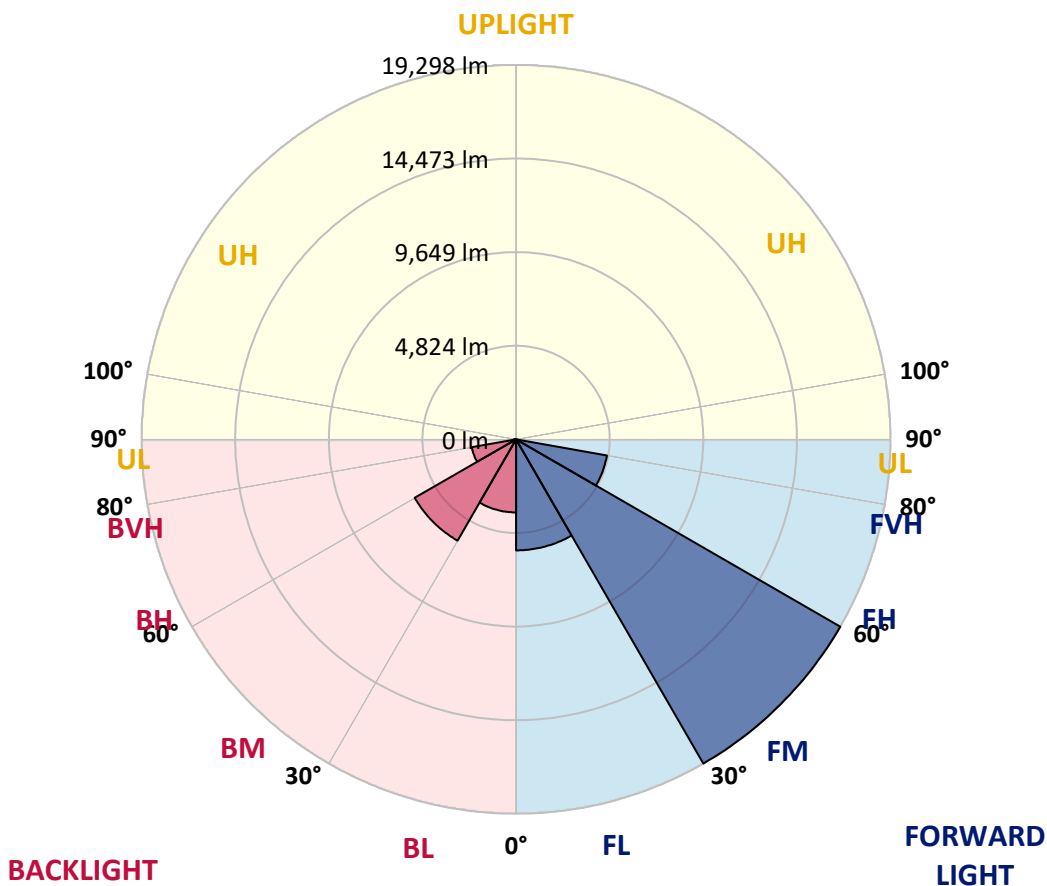
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5723.8	13.6			
FM (30°-60°)	19297.7	45.9			
FH (60°-80°)	4754.4	11.3			G2/5000
FVH (80°-90°)	50.2	0.1			G1/100
BL (0°-30°)	3767.1	9.0	B4/5000		
BM (30°-60°)	6030.7	14.3	B4/8500		
BH (60°-80°)	2316.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	110.2	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	16144.2	16144.2	16144.2	16144.2	16144.2	16144.2	16144.2	16144.2	16144.2	16144.2	16144.2
2.5°	15841.9	15874.2	15895.8	15971.4	16036.2	16093.8	16155.0	16155.0	16151.4	16140.6	16119.0
5°	15215.5	15251.5	15301.9	15406.3	15546.7	15647.5	15813.1	15827.5	15899.4	15928.2	15913.8
7.5°	14488.4	14499.2	14564.0	14700.8	14924.0	15103.9	15341.5	15370.3	15543.1	15643.9	15625.9
10°	13692.9	13656.9	13772.1	13973.7	14265.2	14567.6	14873.6	14898.8	15175.9	15366.7	15352.3
12.5°	12965.8	12969.4	13084.6	13329.3	13692.9	14067.2	14477.6	14535.2	14877.2	15121.9	15096.7
15°	12357.4	12371.8	12512.2	12789.4	13203.3	13649.7	14160.8	14214.8	14646.8	14970.7	14898.8
17.5°	11871.5	11885.9	12008.3	12325.0	12767.8	13307.7	13930.5	13984.5	14520.8	14906.0	14758.4
20°	11536.7	11529.5	11648.3	11950.7	12407.8	12994.6	13728.9	13808.1	14481.2	14931.2	14664.8
22.5°	11399.9	11396.3	11482.7	11731.1	12159.5	12753.4	13606.5	13714.5	14524.4	15042.7	14607.2
25°	11468.3	11453.9	11529.5	11713.1	12055.1	12659.8	13642.5	13757.7	14708.0	15273.1	14618.0
27.5°	11680.7	11662.7	11727.5	11893.1	12152.3	12757.0	13894.5	14027.7	15096.7	15694.3	14762.0
30°	12004.7	11993.9	12058.7	12217.1	12443.8	13081.0	14376.8	14528.0	15697.9	16349.4	15075.1
32.5°	12382.6	12364.6	12479.8	12663.4	12926.2	13671.3	15024.7	15222.7	16410.6	17191.7	15600.7
35°	12807.4	12793.0	12951.4	13217.7	13595.7	14492.0	15809.5	16025.4	17137.7	18145.6	16299.0
37.5°	13221.3	13221.3	13527.3	13923.3	14398.4	15384.7	16547.4	16684.2	17641.7	18991.5	17047.7
40°	13588.5	13610.1	14070.8	14664.8	15269.5	16191.0	17033.3	17148.5	17864.8	19574.6	17699.2
42.5°	13995.3	14013.3	14549.6	15327.1	16047.0	16842.5	17328.5	17386.1	17908.0	19866.2	18160.0
45°	14319.2	14344.4	15010.3	15841.9	16723.8	17332.1	17562.5	17612.9	17969.2	20024.6	18494.8
47.5°	14488.4	14524.4	15287.5	16255.8	17180.9	17771.2	17947.6	17969.2	18221.2	20301.8	18897.9
50°	14459.6	14531.6	15391.9	16461.0	17519.3	18214.0	18566.8	18602.7	18735.9	20708.5	19369.5
52.5°	14715.2	14747.6	15615.1	16705.8	18001.6	19031.1	19643.0	19693.4	19632.2	21014.5	19650.2
55°	14290.4	14445.2	15337.9	16669.8	18735.9	20294.6	21237.7	21212.5	20445.7	21356.4	20118.2
57.5°	11558.3	11785.1	12602.2	14150.0	17526.5	21180.1	22429.1	22367.9	21075.7	21619.2	20625.7
60°	8001.9	8037.9	8775.8	9873.7	13527.3	18710.7	22080.0	22213.1	21190.9	21288.1	19686.2
62.5°	6400.1	6389.3	6457.7	6486.5	8603.1	13152.9	17429.3	17915.2	17605.7	16587.0	13952.1
65°	5464.2	5503.8	5705.4	5601.0	5615.4	7408.0	10413.7	10482.0	10266.1	9898.9	7379.2
67.5°	4276.3	4344.7	4701.1	5107.8	4978.3	4769.5	5403.0	5370.6	4233.1	3275.6	2706.9
70°	2678.1	2721.3	3102.9	4010.0	4333.9	3916.4	3473.6	3459.2	2267.7	1864.6	2044.6
72.5°	1562.2	1569.4	1677.4	2235.4	2876.1	2678.1	2555.7	2462.1	1457.8	1486.6	1630.6
75°	860.3	860.3	856.7	964.7	1133.9	1004.3	971.9	946.7	975.5	1105.1	1213.1
77.5°	180.0	183.6	194.4	255.6	331.2	403.2	507.5	511.1	637.1	737.9	824.3
80°	82.8	86.4	108.0	136.8	176.4	234.0	309.6	313.2	385.2	464.3	521.9
82.5°	43.2	46.8	57.6	72.0	93.6	122.4	172.8	172.8	230.4	273.6	309.6
85°	14.4	14.4	21.6	28.8	39.6	50.4	68.4	68.4	100.8	133.2	154.8
87.5°	0.0	0.0	0.0	0.0	3.6	7.2	14.4	14.4	18.0	21.6	36.0
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°	16144.2	16144.2	16144.2	16144.2	16144.2	16144.2	16144.2	16144.2	16144.2	16144.2	16144.2
2.5°	16072.2	15960.6	15964.2	15985.8	15917.4	15813.1	15744.7	15658.3	15604.3	15593.5	15633.1
5°	15841.9	15712.3	15622.3	15528.7	15334.3	15103.9	14924.0	14776.4	14679.2	14643.2	14600.0
7.5°	15525.1	15355.9	15129.1	14866.4	14513.6	14103.2	13815.3	13545.3	13358.1	13304.1	13278.9
10°	15208.3	14963.5	14560.4	14070.8	13484.1	12929.8	12407.8	12008.3	11691.5	11511.5	11569.1
12.5°	14880.8	14578.4	13948.5	13196.1	12379.0	11543.9	10860.0	10197.7	9686.5	9431.0	9355.4
15°	14592.8	14182.4	13304.1	12285.4	11198.4	10147.3	9157.4	8163.9	7516.0	7163.2	7066.0
17.5°	14348.0	13815.3	12623.8	11356.7	10057.3	8559.9	7343.2	6421.7	5978.9	5784.6	5770.2
20°	14106.8	13455.3	11950.7	10356.1	8739.8	7062.4	5975.3	5543.4	5385.0	5316.6	5313.0
22.5°	13890.9	13077.4	11241.6	9355.4	7429.6	5935.7	5338.2	5151.0	5107.8	5107.8	5100.6
25°	13707.3	12699.4	10514.4	8293.5	6245.3	5284.2	5007.0	4927.9	4945.9	4978.3	4981.9
27.5°	13631.7	12404.2	9812.5	7202.8	5428.2	4906.3	4780.3	4769.5	4819.9	4870.3	4877.5
30°	13710.9	12202.7	9092.6	6158.9	4938.7	4675.9	4618.3	4639.9	4701.1	4751.5	4751.5
32.5°	13955.7	12101.9	8358.3	5395.8	4654.3	4513.9	4495.9	4517.5	4564.3	4593.1	4596.7
35°	14369.6	12141.5	7598.8	4881.1	4470.7	4395.1	4391.5	4405.9	4423.9	4441.9	4445.5
37.5°	14891.6	12317.8	6785.3	4582.3	4351.9	4308.7	4301.5	4297.9	4301.5	4301.5	4305.1
40°	15402.7	12584.2	6058.1	4405.9	4269.1	4233.1	4215.1	4189.9	4186.3	4179.1	4175.5
42.5°	15780.7	12789.4	5478.6	4279.9	4193.5	4150.3	4128.7	4089.1	4085.5	4081.9	4078.3
45°	16065.0	12962.2	4996.2	4157.5	4114.3	4074.8	4028.0	3992.0	3999.2	4006.4	4006.4
47.5°	16385.4	13113.4	4643.5	4042.4	4017.2	3977.6	3920.0	3894.8	3920.0	3945.2	3945.2
50°	16774.1	13325.7	4355.5	3927.2	3916.4	3869.6	3819.2	3808.4	3837.2	3873.2	3873.2
52.5°	17058.5	13509.3	4150.3	3812.0	3812.0	3750.8	3707.6	3704.0	3736.4	3772.4	3776.0
55°	17591.3	13937.7	4078.3	3678.8	3664.4	3617.6	3585.2	3560.0	3599.6	3632.0	3632.0
57.5°	18192.4	14506.4	4096.3	3488.0	3470.0	3455.6	3430.4	3401.6	3412.4	3448.4	3452.0
60°	16918.1	13404.9	3898.4	3297.2	3286.4	3279.2	3246.8	3196.4	3210.8	3239.6	3243.2
62.5°	11817.5	8909.0	3153.3	3059.7	3095.7	3092.1	3048.9	2991.3	2994.9	3034.5	3034.5
65°	6133.7	4819.9	2768.1	2843.7	2897.7	2876.1	2804.1	2753.7	2746.5	2796.9	2786.1
67.5°	2645.7	2631.3	2519.7	2616.9	2674.5	2627.7	2552.1	2469.3	2476.5	2494.5	2480.1
70°	2131.0	2195.8	2242.6	2346.9	2393.7	2307.3	2224.6	2177.8	2138.2	2134.6	2109.4
72.5°	1702.6	1792.6	1897.0	2005.0	2019.4	1933.0	1828.6	1785.4	1724.2	1720.6	1695.4
75°	1281.5	1357.1	1439.8	1526.2	1526.2	1443.4	1375.0	1353.5	1281.5	1259.9	1238.3
77.5°	874.7	921.5	986.3	1007.9	1029.5	997.1	928.7	892.7	809.9	788.3	759.5
80°	550.7	583.1	622.7	637.1	658.7	619.1	565.1	525.5	467.9	450.0	435.6
82.5°	331.2	352.8	378.0	385.2	403.2	374.4	324.0	295.2	262.8	248.4	237.6
85°	169.2	180.0	194.4	198.0	194.4	165.6	147.6	133.2	111.6	108.0	100.8
87.5°	43.2	50.4	54.0	50.4	46.8	36.0	25.2	18.0	7.2	7.2	3.6
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)