

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: P641275

Luminaire Tested: GWS-SA5F-750-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36363.8 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

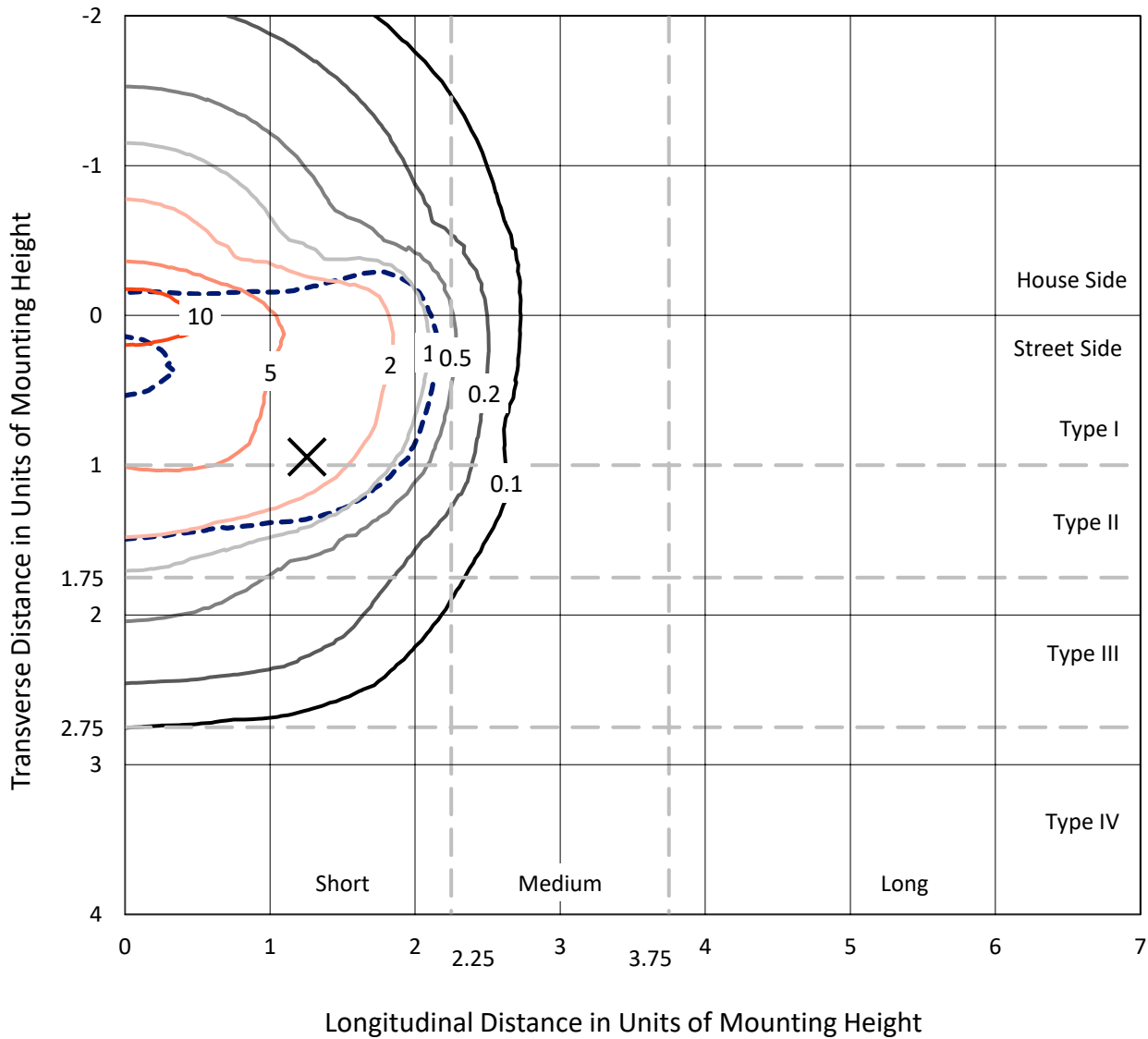
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

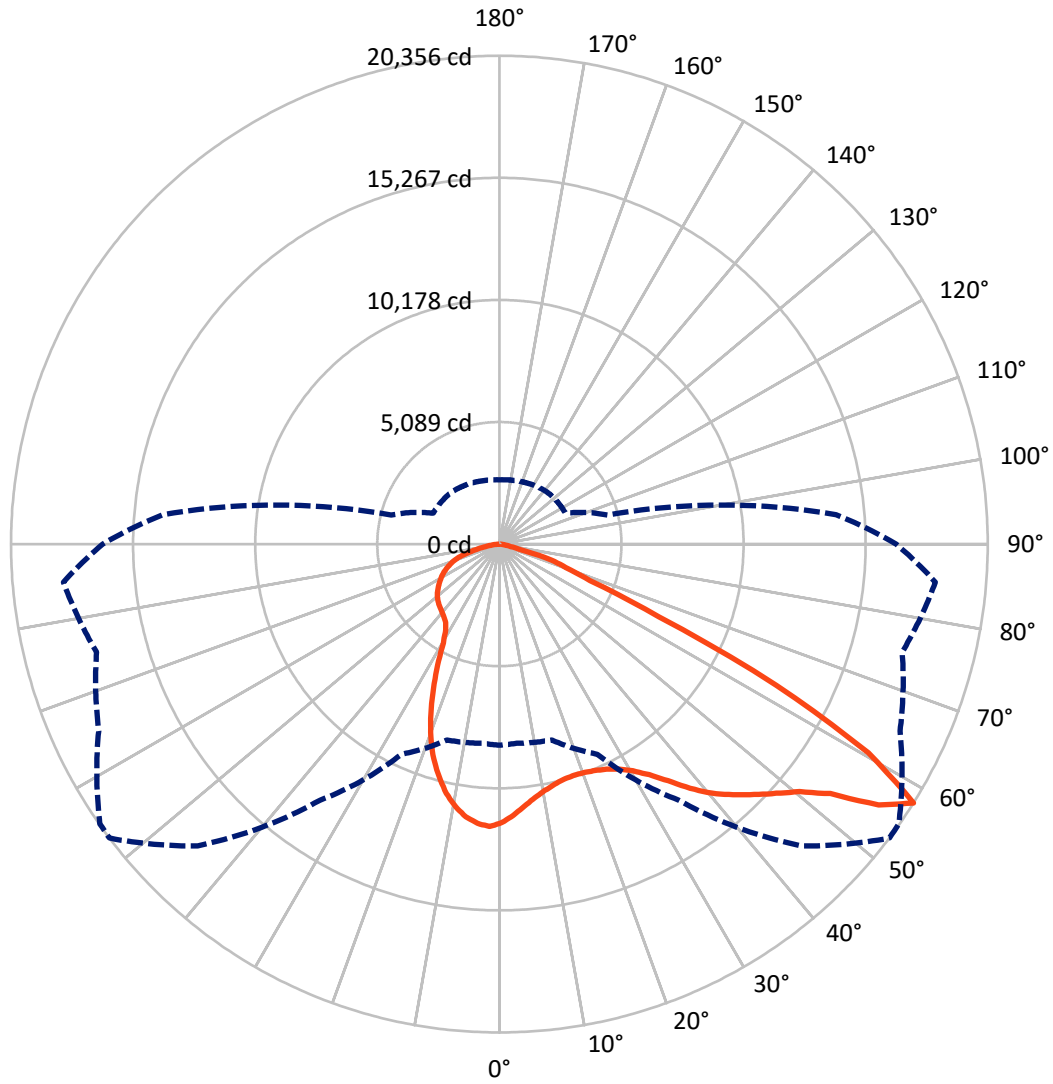
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11369.6	0.0	11369.6
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	24994.2	0.0	24994.2
	% Fixture	68.7	0.0	68.7
Total	Lumens	36363.8	0.0	36363.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1050.1	2.9
10°-20°	2754.9	7.6
20°-30°	4058.9	11.2
30°-40°	5681.4	15.6
40°-50°	7468.7	20.5
50°-60°	8757.0	24.1
60°-70°	5158.9	14.2
70°-80°	1283.4	3.5
80°-90°	150.6	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°	36363.8	100.0
0°-180°	36363.8	100.0

Coefficient of Utilization



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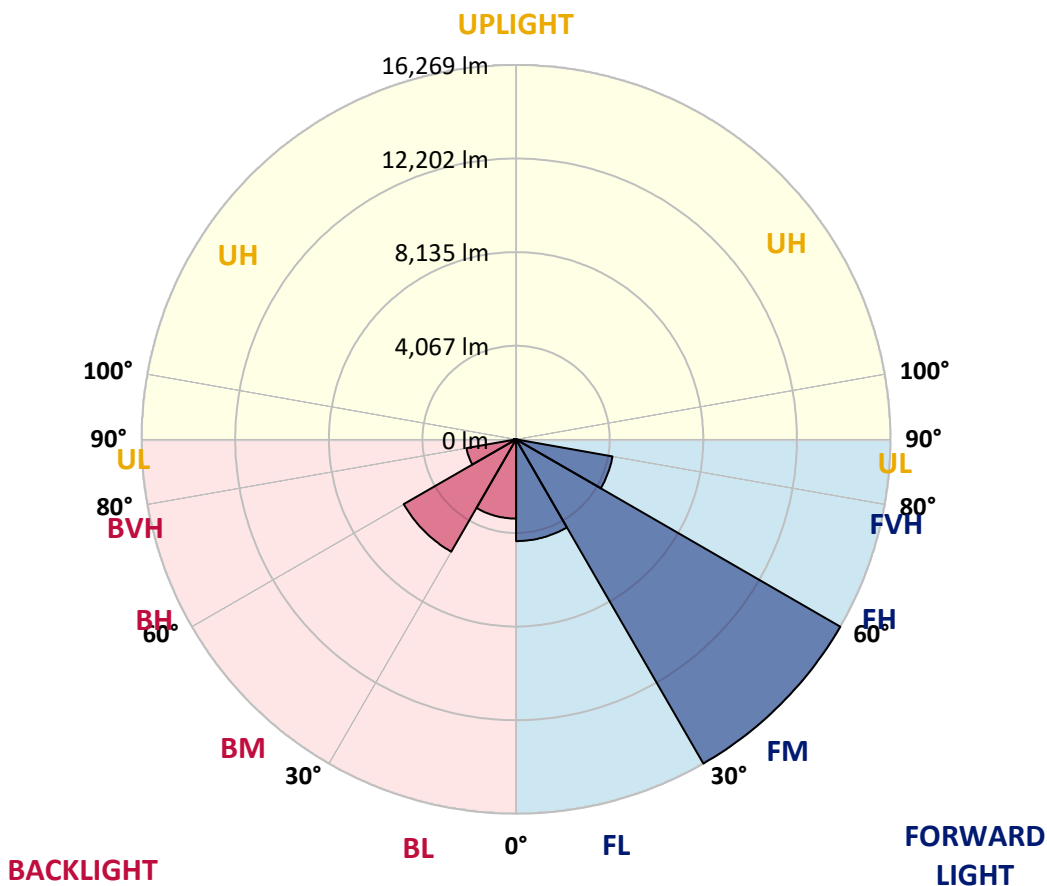
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4421.1	12.2			
FM (30°-60°)	16269.5	44.7			
FH (60°-80°)	4253.2	11.7			G2/5000
FVH (80°-90°)	50.4	0.1			G1/100
BL (0°-30°)	3442.8	9.5	B4/5000		
BM (30°-60°)	5637.6	15.5	B4/8500		
BH (60°-80°)	2189.0	6.0	B3/2500		G3/2500
BVH (80°-90°)	100.2	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°	53°	55°	65°	75°	85°
0°	11611.9	11611.9	11611.9	11611.9	11611.9	11611.9	11611.9	11611.9	11611.9	11611.9	11611.9
2.5°	10944.7	10975.3	10981.5	11076.3	11082.5	11220.2	11312.0	11293.6	11388.5	11504.8	11596.6
5°	10421.4	10424.4	10455.0	10568.3	10629.5	10810.1	10963.1	10963.1	11146.7	11385.5	11590.5
7.5°	9989.8	9986.8	10014.3	10139.8	10240.8	10458.1	10666.2	10690.7	10947.8	11296.7	11630.3
10°	9588.9	9610.3	9640.9	9793.9	9922.5	10191.8	10439.7	10479.5	10803.9	11235.5	11685.4
12.5°	9331.8	9334.9	9380.8	9552.2	9717.4	10005.1	10265.3	10314.2	10687.6	11177.3	11725.2
15°	9166.5	9169.6	9218.5	9408.3	9601.1	9891.9	10158.2	10213.2	10620.3	11168.2	11801.7
17.5°	9093.1	9090.0	9135.9	9325.7	9536.9	9839.9	10124.5	10191.8	10650.9	11238.5	11936.4
20°	9093.1	9096.1	9120.6	9292.0	9506.2	9827.6	10158.2	10240.8	10770.3	11397.7	12144.5
22.5°	9221.6	9233.9	9246.1	9362.4	9530.7	9846.0	10246.9	10357.1	11027.4	11664.0	12416.9
25°	9472.6	9475.6	9487.9	9582.8	9659.3	9898.0	10393.8	10559.1	11428.3	12052.7	12759.7
27.5°	9809.2	9852.1	9864.3	9925.5	9925.5	10026.5	10623.4	10862.1	11970.0	12612.8	13197.3
30°	10280.6	10295.9	10317.3	10384.6	10311.2	10268.3	10960.0	11266.1	12597.5	13289.2	13723.8
32.5°	10693.8	10727.4	10843.7	10953.9	10822.3	10687.6	11455.9	11817.0	13200.4	13993.1	14283.9
35°	11045.7	11128.4	11351.8	11596.6	11504.8	11370.2	12113.9	12490.3	13696.2	14498.1	14779.7
37.5°	11471.2	11535.4	11841.5	12239.4	12322.0	12257.7	12915.8	13185.1	14026.8	14626.6	15049.0
40°	11902.7	12000.6	12395.5	12946.4	13261.6	13307.5	13656.4	13837.0	14140.0	14375.7	14997.0
42.5°	12343.4	12511.8	13053.5	13696.2	14256.3	14360.4	14280.8	14357.3	14103.3	14029.8	14755.2
45°	12882.1	13081.0	13693.2	14513.4	15251.0	15413.2	14892.9	14822.5	14097.2	13898.2	14605.2
47.5°	13518.7	13717.6	14302.2	15257.1	16199.8	16319.2	15520.3	15391.8	14311.4	14100.2	14807.2
50°	14081.9	14219.6	14742.9	15811.1	17084.3	17154.7	16212.0	16055.9	14843.9	14660.3	15437.7
52.5°	13509.5	13494.2	14045.1	15361.2	17543.4	18391.2	17277.1	17127.2	15872.3	15590.7	16414.0
55°	11462.0	11287.5	11780.3	13074.9	16261.0	19489.9	19186.9	18887.0	17243.5	16527.3	17329.2
57.5°	8379.9	8331.0	8450.3	9665.4	13025.9	17788.2	20356.1	20328.6	18427.9	17384.2	18241.2
60°	6552.8	6479.3	6161.0	6194.7	8878.8	13895.2	17665.8	18476.9	19162.5	17898.4	18877.8
62.5°	5818.2	5763.1	5597.9	5141.8	5288.7	9316.5	12949.4	13693.2	16744.6	15808.0	16215.1
65°	4817.4	4802.1	4939.8	4921.5	4431.8	5144.9	7308.7	8058.6	10528.5	10660.1	10528.5
67.5°	3501.3	3473.8	3822.7	4511.3	4266.5	3883.9	4073.7	4333.8	5398.9	4848.0	4364.4
70°	2277.1	2237.3	2439.3	3259.5	3819.6	3385.0	2935.1	2892.3	2968.8	1845.5	1995.5
72.5°	1527.2	1481.3	1478.3	1793.5	2307.7	2280.2	2274.0	2252.6	2010.8	1456.8	1616.0
75°	850.8	814.1	804.9	774.3	826.4	841.7	896.8	927.4	1003.9	1104.9	1224.2
77.5°	143.8	140.8	177.5	226.5	312.2	400.9	495.8	523.4	645.8	765.2	841.7
80°	79.6	82.6	107.1	131.6	174.5	238.7	306.1	324.4	397.9	462.2	523.4
82.5°	42.8	42.8	55.1	70.4	94.9	125.5	165.3	180.6	229.5	269.3	312.2
85°	15.3	15.3	21.4	27.5	39.8	52.0	64.3	73.5	101.0	137.7	156.1
87.5°	0.0	0.0	0.0	0.0	3.1	6.1	12.2	12.2	15.3	27.5	39.8
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°	11611.9	11611.9	11611.9	11611.9	11611.9	11611.9	11611.9	11611.9	11611.9	11611.9	11611.9
2.5°	11673.2	11590.5	11703.8	11755.8	11774.2	11786.4	11706.8	11651.7	11633.4	11575.2	11541.5
5°	11716.0	11660.9	11768.0	11768.0	11691.5	11611.9	11449.7	11336.5	11256.9	11162.0	11146.7
7.5°	11789.5	11749.7	11807.8	11688.5	11495.6	11281.4	10999.8	10779.5	10601.9	10485.6	10488.7
10°	11887.4	11838.4	11792.5	11526.2	11174.3	10779.5	10347.9	10026.5	9732.7	9598.1	9524.6
12.5°	11951.7	11881.3	11688.5	11247.7	10730.5	10201.0	9591.9	9114.5	8689.1	8496.2	8480.9
15°	12031.2	11902.7	11517.1	10886.6	10167.3	9445.0	8661.5	7997.4	7422.0	7122.0	7106.7
17.5°	12135.3	11924.1	11312.0	10473.4	9573.6	8508.5	7523.0	6687.4	6075.3	5842.7	5882.5
20°	12282.2	11948.6	11079.4	10014.3	8836.0	7443.4	6216.1	5447.9	5212.2	5196.9	5166.3
22.5°	12447.5	11963.9	10822.3	9500.1	7942.3	6307.9	5135.7	4808.2	4805.2	4881.7	4900.0
25°	12634.2	11976.2	10531.5	8900.2	6975.1	5175.5	4541.9	4444.0	4520.5	4664.4	4682.7
27.5°	12872.9	12000.6	10179.6	8242.2	5946.8	4471.5	4214.5	4190.0	4281.8	4416.5	4410.3
30°	13224.9	12089.4	9806.2	7486.2	4890.9	4137.9	4015.5	4018.6	4055.3	4119.6	4128.8
32.5°	13583.0	12227.1	9442.0	6635.4	4284.9	3948.2	3893.1	3887.0	3887.0	3914.5	3920.6
35°	13922.7	12383.2	9047.2	5747.8	3991.0	3838.0	3801.3	3782.9	3773.7	3767.6	3758.4
37.5°	14112.5	12459.7	8661.5	4872.5	3834.9	3764.5	3727.8	3703.3	3669.7	3645.2	3639.1
40°	14029.8	12371.0	8214.7	4217.5	3740.1	3694.2	3651.3	3617.6	3571.7	3550.3	3538.1
42.5°	13754.4	12095.5	7728.0	3908.4	3663.5	3617.6	3565.6	3510.5	3479.9	3461.5	3458.5
45°	13463.6	11761.9	7140.4	3727.8	3590.1	3535.0	3473.8	3412.6	3378.9	3369.7	3366.7
47.5°	13454.4	11596.6	6516.0	3584.0	3501.3	3446.2	3369.7	3308.5	3271.8	3259.5	3247.3
50°	13858.4	11765.0	5812.1	3458.5	3409.5	3351.4	3265.7	3198.3	3152.4	3137.1	3134.1
52.5°	14697.0	12398.5	5181.6	3333.0	3287.1	3219.8	3149.4	3082.0	3026.9	2999.4	2996.3
55°	15603.0	13203.5	4789.9	3204.5	3143.2	3085.1	3020.8	2947.4	2886.2	2843.3	2837.2
57.5°	16539.5	14081.9	4670.5	3042.2	2996.3	2956.5	2880.0	2800.5	2730.1	2690.3	2681.1
60°	17310.8	14837.8	4893.9	2870.8	2846.4	2794.3	2723.9	2647.4	2598.5	2567.8	2561.7
62.5°	14492.0	12080.2	3951.2	2684.2	2684.2	2629.1	2549.5	2494.4	2460.7	2439.3	2433.2
65°	9197.1	7480.1	2696.4	2497.5	2494.4	2420.9	2353.6	2316.9	2301.6	2267.9	2261.8
67.5°	4006.3	3418.7	2304.6	2307.7	2295.5	2215.9	2148.5	2121.0	2090.4	2053.7	2050.6
70°	2078.2	2117.9	2062.8	2096.5	2075.1	1980.2	1915.9	1873.1	1808.8	1772.1	1775.2
72.5°	1677.2	1720.1	1781.3	1833.3	1787.4	1710.9	1609.9	1557.8	1475.2	1435.4	1438.5
75°	1279.3	1325.2	1383.4	1438.5	1401.8	1306.9	1242.6	1190.6	1095.7	1049.8	1059.0
77.5°	881.5	905.9	976.3	973.3	961.0	933.5	838.6	777.4	679.5	624.4	630.5
80°	547.8	563.2	596.8	612.1	606.0	569.3	492.8	446.8	388.7	355.0	358.1
82.5°	330.5	339.7	370.3	373.4	370.3	342.8	284.6	251.0	214.2	195.9	195.9
85°	168.3	174.5	192.8	192.8	174.5	146.9	131.6	116.3	94.9	85.7	85.7
87.5°	45.9	45.9	58.2	49.0	39.8	36.7	18.4	15.3	6.1	3.1	3.1
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)