

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: P641330

Luminaire Tested: GWS-SA5F-760-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641330
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35865.5 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

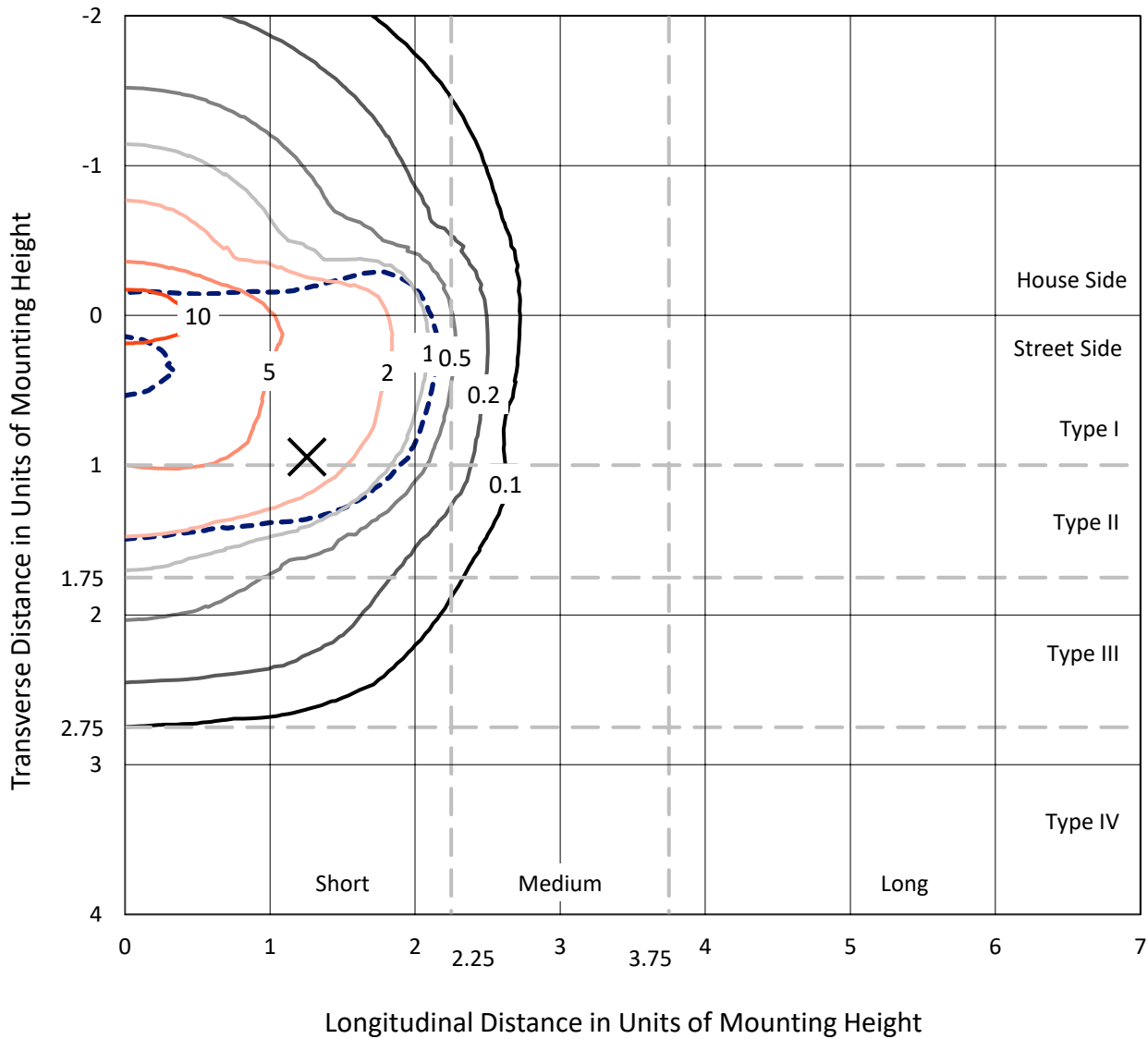
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

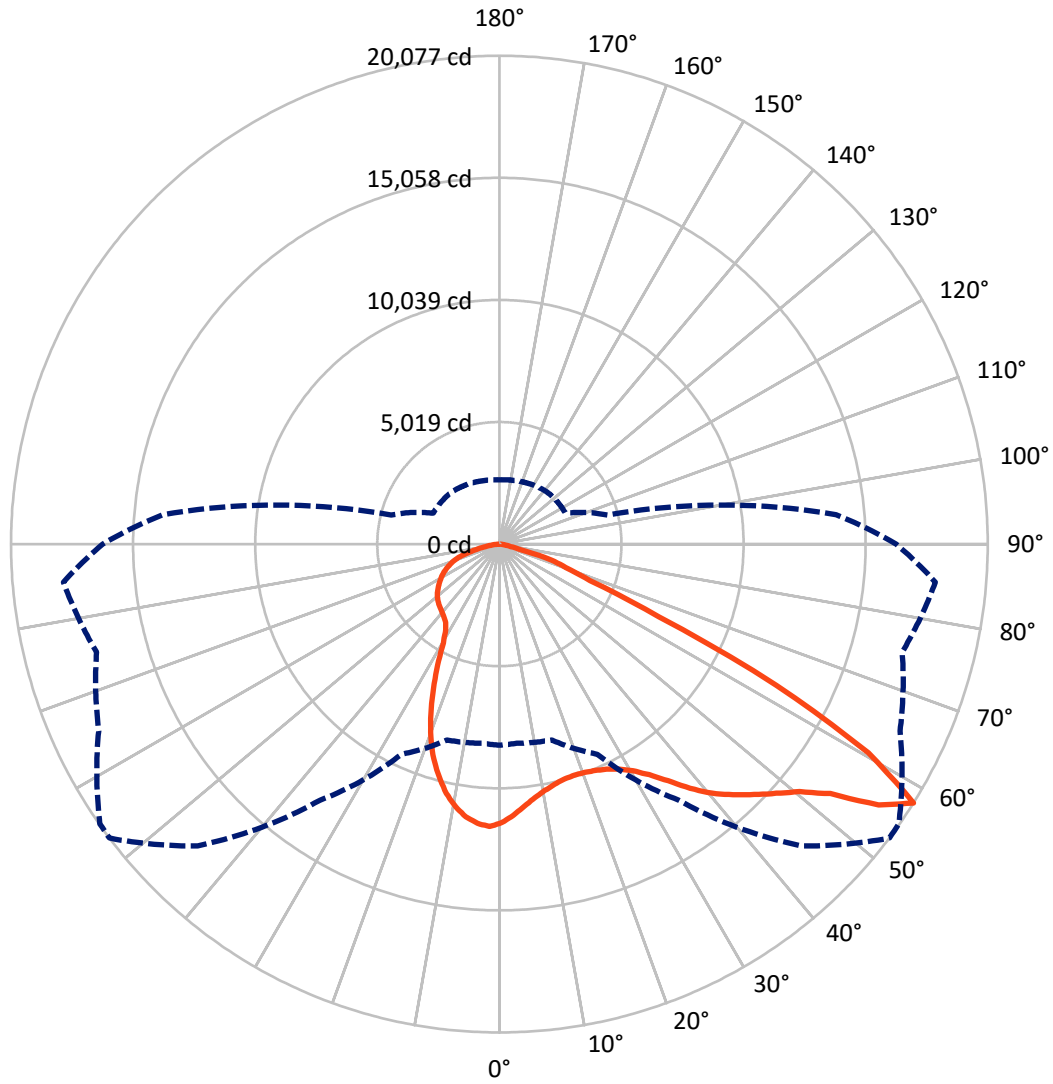
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.7 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	11213.8	0.0	11213.8
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	24651.7	0.0	24651.7
	% Fixture	68.7	0.0	68.7
Total	Lumens	35865.5	0.0	35865.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1035.7	2.9
10°-20°	2717.1	7.6
20°-30°	4003.3	11.2
30°-40°	5603.6	15.6
40°-50°	7366.3	20.5
50°-60°	8637.0	24.1
60°-70°	5088.2	14.2
70°-80°	1265.8	3.5
80°-90°	148.5	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°	35865.5	100.0
0°-180°	35865.5	100.0

Coefficient of Utilization



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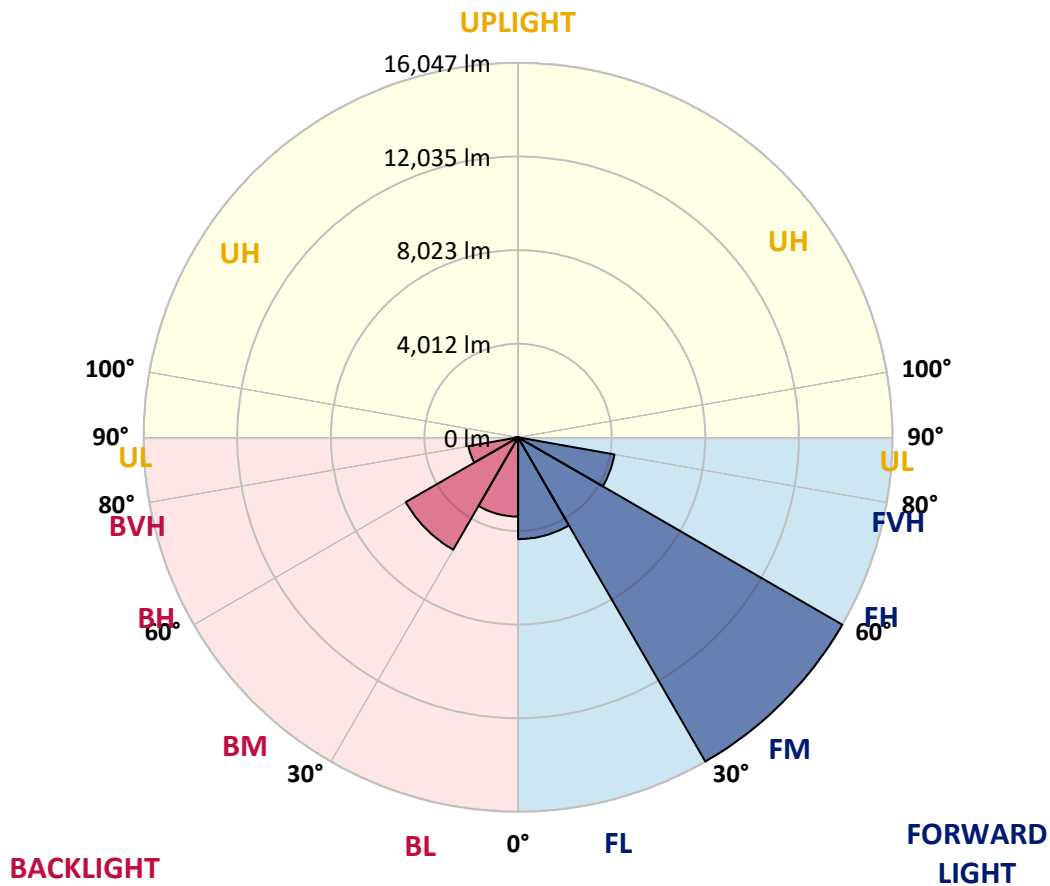
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4360.5	12.2			
FM (30°-60°)	16046.5	44.7			
FH (60°-80°)	4194.9	11.7			G2/5000
FVH (80°-90°)	49.7	0.1			G1/100
BL (0°-30°)	3395.6	9.5	B4/5000		
BM (30°-60°)	5560.4	15.5	B4/8500		
BH (60°-80°)	2159.0	6.0	B3/2500		G3/2500
BVH (80°-90°)	98.8	0.3			G1/100
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°	11452.8	11452.8	11452.8	11452.8	11452.8	11452.8	11452.8	11452.8	11452.8	11452.8	11452.8
2.5°	10794.8	10824.9	10831.0	10924.6	10930.6	11066.4	11157.0	11138.9	11232.5	11347.2	11437.7
5°	10278.6	10281.6	10311.8	10423.5	10483.8	10661.9	10812.9	10812.9	10994.0	11229.4	11431.7
7.5°	9852.9	9849.9	9877.1	10000.8	10100.5	10314.8	10520.1	10544.2	10797.8	11141.9	11470.9
10°	9457.5	9478.6	9508.8	9659.7	9786.5	10052.2	10296.7	10335.9	10655.9	11081.5	11525.3
12.5°	9203.9	9206.9	9252.2	9421.3	9584.3	9868.0	10124.6	10172.9	10541.2	11024.2	11564.5
15°	9040.9	9043.9	9092.2	9279.4	9469.6	9756.3	10019.0	10073.3	10474.8	11015.1	11640.0
17.5°	8968.5	8965.4	9010.7	9197.9	9406.2	9705.0	9985.8	10052.2	10505.0	11084.5	11772.8
20°	8968.5	8971.5	8995.6	9164.7	9376.0	9692.9	10019.0	10100.5	10622.7	11241.5	11978.1
22.5°	9095.2	9107.3	9119.4	9234.1	9400.1	9711.1	10106.5	10215.2	10876.3	11504.1	12246.7
25°	9342.8	9345.8	9357.9	9451.4	9526.9	9762.4	10251.4	10414.4	11271.7	11887.5	12584.8
27.5°	9674.8	9717.1	9729.2	9789.5	9789.5	9889.2	10477.8	10713.2	11806.0	12439.9	13016.5
30°	10139.7	10154.8	10175.9	10242.3	10169.9	10127.6	10809.8	11111.7	12424.8	13107.1	13535.7
32.5°	10547.2	10580.4	10695.1	10803.8	10674.0	10541.2	11298.9	11655.1	13019.5	13801.3	14088.1
35°	10894.4	10975.9	11196.2	11437.7	11347.2	11214.3	11947.9	12319.2	13508.5	14299.4	14577.1
37.5°	11314.0	11377.4	11679.2	12071.6	12153.2	12089.8	12738.8	13004.4	13834.6	14426.2	14842.8
40°	11739.6	11836.2	12225.6	12769.0	13079.9	13125.2	13469.3	13647.4	13946.2	14178.7	14791.5
42.5°	12174.3	12340.3	12874.6	13508.5	14061.0	14163.6	14085.1	14160.6	13910.0	13837.6	14553.0
45°	12705.6	12901.8	13505.5	14314.5	15042.0	15202.0	14688.8	14619.4	13904.0	13707.8	14405.1
47.5°	13333.5	13529.7	14106.2	15048.1	15977.8	16095.5	15307.7	15180.9	14115.3	13907.0	14604.3
50°	13888.9	14024.7	14540.9	15594.4	16850.2	16919.6	15989.9	15835.9	14640.5	14459.4	15226.2
52.5°	13324.4	13309.3	13852.7	15150.7	17303.0	18139.2	17040.4	16892.5	15654.8	15377.1	16189.1
55°	11304.9	11132.8	11618.8	12895.7	16038.2	19222.9	18924.0	18628.2	17007.2	16300.8	17091.7
57.5°	8265.1	8216.8	8334.5	9533.0	12847.4	17544.5	20077.2	20050.0	18175.4	17146.0	17991.3
60°	6463.0	6390.5	6076.6	6109.8	8757.2	13704.7	17423.7	18223.7	18899.9	17653.2	18619.1
62.5°	5738.5	5684.2	5521.1	5071.4	5216.3	9188.8	12772.0	13505.5	16515.1	15591.4	15992.9
65°	4751.4	4736.3	4872.1	4854.0	4371.0	5074.4	7208.6	7948.2	10384.2	10514.0	10384.2
67.5°	3453.4	3426.2	3770.3	4449.5	4208.0	3830.7	4017.8	4274.4	5324.9	4781.6	4304.6
70°	2245.9	2206.6	2405.9	3214.9	3767.3	3338.6	2894.9	2852.6	2928.1	1820.3	1968.2
72.5°	1506.3	1461.0	1458.0	1768.9	2276.1	2248.9	2242.9	2221.7	1983.3	1436.9	1593.9
75°	839.2	803.0	793.9	763.7	815.0	830.1	884.5	914.7	990.1	1089.7	1207.5
77.5°	141.9	138.9	175.1	223.4	307.9	395.4	489.0	516.2	636.9	754.7	830.1
80°	78.5	81.5	105.7	129.8	172.1	235.5	301.9	320.0	392.4	455.8	516.2
82.5°	42.3	42.3	54.3	69.4	93.6	123.8	163.0	178.1	226.4	265.6	307.9
85°	15.1	15.1	21.1	27.2	39.2	51.3	63.4	72.4	99.6	135.8	154.0
87.5°	0.0	0.0	0.0	0.0	3.0	6.0	12.1	12.1	15.1	27.2	39.2
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°	11452.8	11452.8	11452.8	11452.8	11452.8	11452.8	11452.8	11452.8	11452.8	11452.8	11452.8
2.5°	11513.2	11431.7	11543.4	11594.7	11612.8	11624.9	11546.4	11492.1	11474.0	11416.6	11383.4
5°	11555.5	11501.1	11606.8	11606.8	11531.3	11452.8	11292.8	11181.1	11102.7	11009.1	10994.0
7.5°	11627.9	11588.7	11646.0	11528.3	11338.1	11126.8	10849.1	10631.7	10456.7	10342.0	10345.0
10°	11724.5	11676.2	11630.9	11368.3	11021.2	10631.7	10206.1	9889.2	9599.4	9466.5	9394.1
12.5°	11787.9	11718.5	11528.3	11093.6	10583.4	10061.2	9460.5	8989.6	8570.0	8379.8	8364.7
15°	11866.4	11739.6	11359.2	10737.4	10028.0	9315.6	8542.8	7887.8	7320.3	7024.4	7009.3
17.5°	11969.0	11760.7	11157.0	10329.9	9442.4	8391.9	7419.9	6595.8	5992.1	5762.6	5801.9
20°	12113.9	11784.9	10927.6	9877.1	8714.9	7341.4	6130.9	5373.2	5140.8	5125.7	5095.5
22.5°	12276.9	11800.0	10674.0	9369.9	7833.4	6221.5	5065.3	4742.3	4739.3	4814.8	4832.9
25°	12461.1	11812.0	10387.2	8778.3	6879.5	5104.6	4479.7	4383.1	4458.6	4600.4	4618.6
27.5°	12696.5	11836.2	10040.1	8129.3	5865.3	4410.3	4156.7	4132.6	4223.1	4355.9	4349.9
30°	13043.7	11923.7	9671.8	7383.7	4823.8	4081.2	3960.5	3963.5	3999.7	4063.1	4072.2
32.5°	13396.8	12059.6	9312.6	6544.5	4226.1	3894.1	3839.7	3833.7	3833.7	3860.9	3866.9
35°	13731.9	12213.5	8923.2	5669.1	3936.3	3785.4	3749.2	3731.1	3722.0	3716.0	3706.9
37.5°	13919.1	12289.0	8542.8	4805.7	3782.4	3713.0	3676.7	3652.6	3619.4	3595.2	3589.2
40°	13837.6	12201.5	8102.1	4159.7	3688.8	3643.5	3601.3	3568.1	3522.8	3501.7	3489.6
42.5°	13565.9	11929.8	7622.1	3854.8	3613.3	3568.1	3516.7	3462.4	3432.2	3414.1	3411.1
45°	13279.1	11600.7	7042.6	3676.7	3540.9	3486.6	3426.2	3365.8	3332.6	3323.6	3320.5
47.5°	13270.1	11437.7	6426.7	3534.9	3453.4	3399.0	3323.6	3263.2	3227.0	3214.9	3202.8
50°	13668.5	11603.8	5732.4	3411.1	3362.8	3305.4	3220.9	3154.5	3109.2	3094.1	3091.1
52.5°	14495.6	12228.6	5110.6	3287.3	3242.0	3175.6	3106.2	3039.8	2985.5	2958.3	2955.3
55°	15389.2	13022.5	4724.2	3160.5	3100.2	3042.8	2979.4	2907.0	2846.6	2804.3	2798.3
57.5°	16312.9	13888.9	4606.5	3000.6	2955.3	2916.0	2840.6	2762.1	2692.7	2653.4	2644.4
60°	17073.6	14634.5	4826.8	2831.5	2807.4	2756.0	2686.6	2611.1	2562.8	2532.7	2526.6
62.5°	14293.4	11914.7	3897.1	2647.4	2647.4	2593.0	2514.5	2460.2	2427.0	2405.9	2399.8
65°	9071.1	7377.6	2659.4	2463.2	2460.2	2387.8	2321.4	2285.1	2270.0	2236.8	2230.8
67.5°	3951.4	3371.9	2273.1	2276.1	2264.0	2185.5	2119.1	2091.9	2061.7	2025.5	2022.5
70°	2049.7	2088.9	2034.6	2067.8	2046.7	1953.1	1889.7	1847.4	1784.0	1747.8	1750.8
72.5°	1654.2	1696.5	1756.9	1808.2	1762.9	1687.4	1587.8	1536.5	1455.0	1415.8	1418.8
75°	1261.8	1307.1	1364.4	1418.8	1382.5	1289.0	1225.6	1174.3	1080.7	1035.4	1044.5
77.5°	869.4	893.5	963.0	959.9	947.9	920.7	827.1	766.7	670.1	615.8	621.8
80°	540.3	555.4	588.6	603.7	597.7	561.5	486.0	440.7	383.4	350.2	353.2
82.5°	326.0	335.1	365.3	368.3	365.3	338.1	280.7	247.5	211.3	193.2	193.2
85°	166.0	172.1	190.2	190.2	172.1	144.9	129.8	114.7	93.6	84.5	84.5
87.5°	45.3	45.3	57.4	48.3	39.2	36.2	18.1	15.1	6.0	3.0	3.0
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)