

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: P641353

Luminaire Tested: GWS-SA5F-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY 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: 37060.9 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

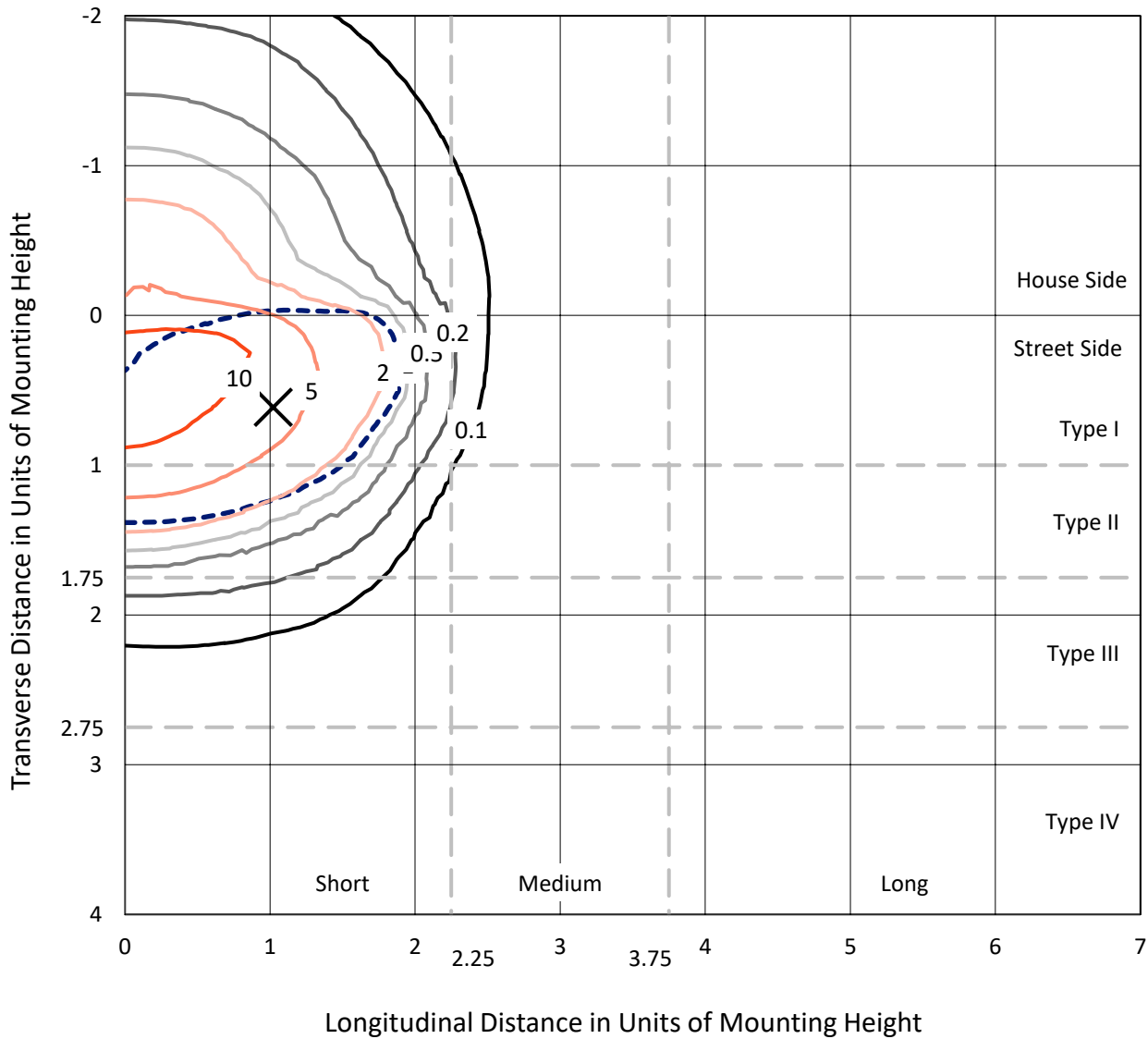
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641353
 CATALOG NUMBER: GWS-SA5F-760-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

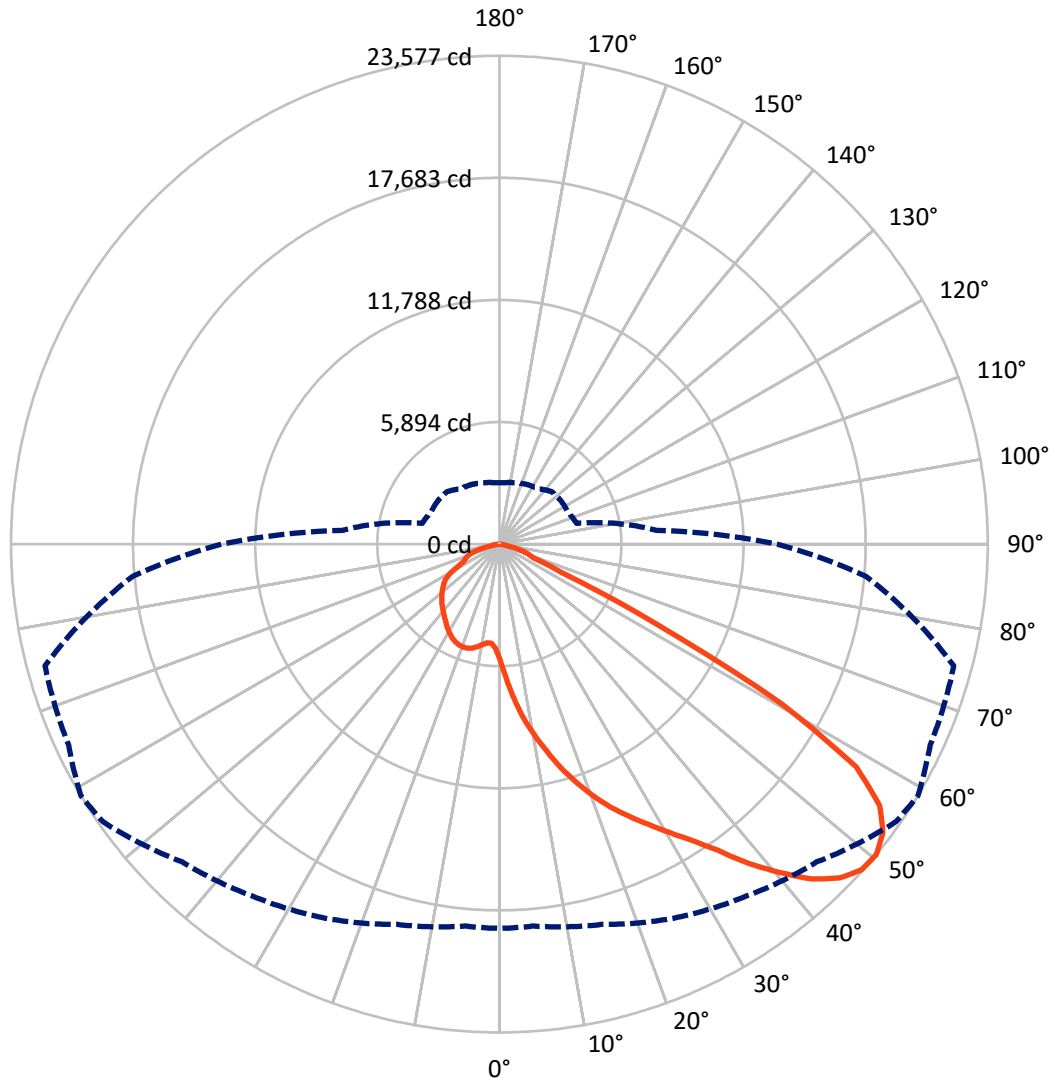
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

REPORT NUMBER: P641353
CATALOG NUMBER: GWS-SA5F-760-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P641353

CATALOG NUMBER: GWS-SA5F-760-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8524.7	0.0	8524.7
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	28536.2	0.0	28536.2
	% Fixture	77.0	0.0	77.0
Total	Lumens	37060.9	0.0	37060.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.9	1.7
10°-20°	2286.7	6.2
20°-30°	4330.0	11.7
30°-40°	7180.5	19.4
40°-50°	9809.0	26.5
50°-60°	8904.0	24.0
60°-70°	2965.1	8.0
70°-80°	864.8	2.3
80°-90°	90.8	0.2
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°	37060.9	100.0
0°-180°	37060.9	100.0

Coefficient of Utilization



REPORT NUMBER: P641353

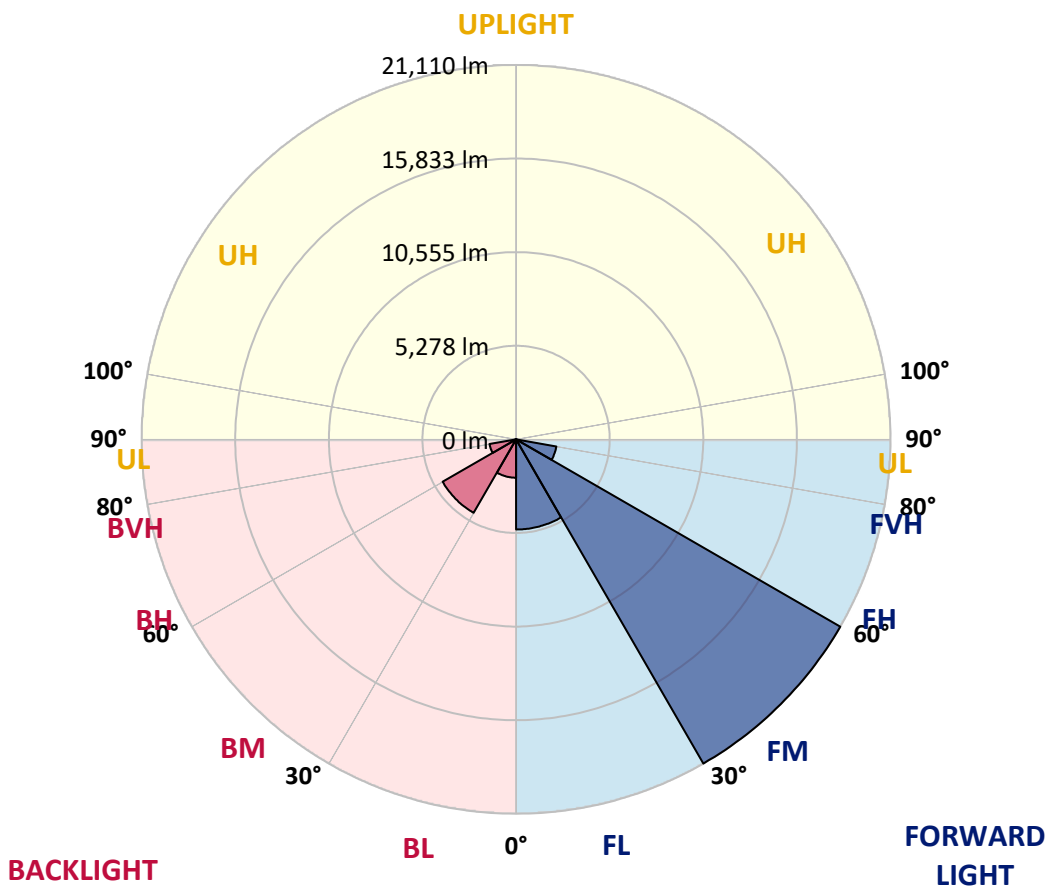
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5082.0	13.7			
FM (30°-60°)	21110.4	57.0			
FH (60°-80°)	2308.4	6.2			G2/5000
FVH (80°-90°)	35.5	0.1			G1/100
BL (0°-30°)	2164.6	5.8	B3/2500		
BM (30°-60°)	4783.2	12.9	B3/5000		
BH (60°-80°)	1521.6	4.1	B3/2500		G3/2500
BVH (80°-90°)	55.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P641353

CATALOG NUMBER: GWS-SA5F-760-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0
2.5°	7275.3	7329.7	7245.1	7251.2	7039.9	6943.3	6671.6	6511.6	6405.9	6110.1	5841.4
5°	8742.5	8679.1	8612.7	8573.4	8389.3	8129.7	7791.6	7522.9	7275.3	6695.7	6137.2
7.5°	9642.1	9608.9	9563.6	9539.4	9358.3	9086.6	8748.5	8519.1	8159.8	7375.0	6496.5
10°	10405.8	10366.6	10339.4	10357.5	10209.6	10034.5	9666.2	9403.6	8999.1	8093.4	6931.2
12.5°	10997.5	11018.7	11027.7	11124.3	11060.9	10955.3	10574.9	10297.2	9847.4	8851.2	7441.4
15°	11465.4	11459.4	11565.1	11749.2	11851.9	11785.4	11480.5	11248.1	10698.7	9596.8	7990.8
17.5°	11574.1	11580.2	11746.2	12069.2	12404.3	12567.3	12395.2	12117.5	11574.1	10333.4	8561.3
20°	11661.7	11673.7	11845.8	12214.1	12703.2	13159.0	13186.2	12986.9	12519.0	11130.4	9141.0
22.5°	12214.1	12241.3	12286.6	12519.0	12959.8	13536.3	13853.3	13811.1	13418.6	11966.6	9765.9
25°	13666.2	13584.6	13364.3	13297.9	13466.9	13934.8	14475.2	14556.7	14363.5	12887.3	10439.0
27.5°	15459.3	15371.8	15045.8	14701.6	14336.3	14499.3	15075.9	15320.5	15323.5	13901.6	11115.3
30°	17086.5	17017.0	16751.4	16259.3	15628.4	15392.9	15818.6	16147.6	16343.8	15072.9	11885.1
32.5°	18478.1	18414.7	18055.5	17654.0	17038.2	16564.2	16718.2	17035.2	17494.0	16588.4	12842.0
35°	19649.4	19586.0	19241.9	18837.4	18266.8	17983.1	17928.7	18146.1	18740.8	18170.2	13940.9
37.5°	20600.4	20537.0	20177.7	19797.4	19362.7	19380.8	19462.3	19567.9	19909.1	19863.8	15115.2
40°	21216.2	21149.8	20893.2	20621.5	20346.8	20564.1	20968.7	20841.9	21023.0	21231.3	16195.9
42.5°	21490.9	21406.4	21258.5	21198.1	21113.6	21451.7	22230.5	22103.7	21886.4	22143.0	16998.9
45°	21216.2	21143.8	21140.7	21324.9	21521.1	21955.8	23103.0	23000.3	22450.9	22583.7	17478.9
47.5°	20374.0	20310.6	20482.6	20965.6	21448.7	22082.6	23492.4	23510.5	22852.4	22767.9	17789.9
50°	18553.6	18511.3	19009.5	19924.2	20757.3	21687.1	23368.6	23576.9	22949.0	22710.5	17750.6
52.5°	14852.6	15048.8	16132.5	17660.0	19278.1	20992.8	22909.8	23181.4	22484.1	22333.2	17539.3
55°	10167.4	10257.9	11341.7	13572.6	16138.6	19489.4	21856.2	22275.8	21934.7	22269.8	17759.7
57.5°	5264.8	5337.3	6191.6	8171.9	10946.2	15402.0	18931.0	20307.5	20826.8	22589.8	18444.9
60°	2161.5	2221.8	2575.0	3532.0	5521.4	8968.9	13623.9	15664.6	16884.2	20630.6	16380.1
62.5°	1569.8	1600.0	1769.0	2107.1	2892.0	4395.4	7710.0	8461.7	9319.1	12929.6	10399.8
65°	1322.2	1355.4	1491.3	1696.6	2110.1	2695.8	3293.5	3311.6	3649.7	5267.8	3855.0
67.5°	1107.9	1138.1	1258.8	1433.9	1705.6	1913.9	1769.0	1772.0	1766.0	1910.9	1847.5
70°	863.4	887.5	1008.3	1195.4	1337.3	1228.7	1382.6	1530.5	1467.1	1524.5	1612.0
72.5°	630.9	658.1	763.8	905.6	869.4	875.5	1120.0	1270.9	1234.7	1298.1	1379.6
75°	455.8	474.0	528.3	452.8	477.0	576.6	787.9	869.4	905.6	960.0	1032.4
77.5°	147.9	147.9	166.0	208.3	259.6	320.0	401.5	434.7	489.0	549.4	600.7
80°	75.5	78.5	93.6	114.7	144.9	184.1	235.5	250.6	277.7	310.9	332.1
82.5°	36.2	39.2	45.3	57.4	75.5	96.6	129.8	144.9	163.0	184.1	199.2
85°	9.1	9.1	12.1	18.1	24.2	36.2	48.3	57.4	72.5	87.5	96.6
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	9.1	12.1	15.1	18.1	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P641353

CATALOG NUMBER: GWS-SA5F-760-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0
2.5°	5720.6	5551.6	5334.2	5150.1	4981.0	4851.2	4739.5	4685.2	4633.9	4597.6	4609.7
5°	5877.6	5587.8	5183.3	4902.5	4730.5	4642.9	4582.6	4552.4	4546.3	4522.2	4513.1
7.5°	6107.1	5693.5	5153.1	4869.3	4754.6	4709.3	4676.1	4658.0	4667.1	4642.9	4633.9
10°	6390.8	5868.6	5228.6	4978.0	4878.4	4845.2	4809.0	4784.8	4772.7	4736.5	4730.5
12.5°	6744.0	6085.9	5364.4	5116.9	5017.3	4959.9	4911.6	4869.3	4842.2	4796.9	4784.8
15°	7124.4	6327.4	5524.4	5252.7	5135.0	5050.5	4972.0	4908.6	4860.3	4799.9	4790.9
17.5°	7538.0	6581.0	5657.3	5346.3	5195.4	5083.7	4969.0	4875.4	4809.0	4730.5	4721.4
20°	7969.7	6837.6	5756.9	5391.6	5198.4	5047.5	4893.5	4769.7	4685.2	4606.7	4600.7
22.5°	8416.4	7073.1	5817.2	5379.5	5150.1	4962.9	4778.8	4639.9	4540.3	4446.7	4440.7
25°	8866.2	7299.5	5832.3	5331.2	5053.5	4836.1	4652.0	4489.0	4377.3	4271.6	4259.5
27.5°	9322.1	7489.7	5796.1	5234.6	4923.7	4688.2	4504.1	4344.1	4229.4	4123.7	4105.6
30°	9808.1	7652.7	5717.6	5107.8	4772.7	4531.2	4350.1	4229.4	4120.7	4015.0	3996.9
32.5°	10327.4	7794.6	5605.9	4953.9	4597.6	4374.3	4241.4	4132.8	4024.1	3930.5	3912.4
35°	10946.2	7888.2	5439.9	4754.6	4434.6	4259.5	4169.0	4042.2	3909.4	3806.7	3797.7
37.5°	11586.2	7960.6	5240.7	4564.4	4292.7	4193.1	4117.7	3945.6	3779.6	3655.8	3640.7
40°	12205.1	8021.0	4993.1	4386.3	4162.9	4144.8	4042.2	3827.9	3541.1	3402.2	3390.1
42.5°	12781.6	8039.1	4733.5	4196.1	4045.2	4036.2	3921.4	3589.4	3369.0	3281.4	3269.4
45°	13177.1	8024.0	4464.8	4018.0	3927.5	3879.2	3758.4	3417.3	3281.4	3203.0	3187.9
47.5°	13469.9	7945.5	4162.9	3830.9	3794.6	3728.2	3468.6	3308.6	3181.8	3103.3	3088.2
50°	13418.6	7619.5	3858.0	3649.7	3634.6	3577.3	3257.3	3172.8	3061.1	2976.5	2964.5
52.5°	13153.0	7000.6	3547.1	3450.5	3480.7	3369.0	3106.4	3009.8	2913.2	2816.6	2795.4
55°	13219.4	6553.8	3311.6	3257.3	3311.6	3058.1	2937.3	2834.7	2744.1	2650.5	2632.4
57.5°	13509.2	6113.1	3061.1	3049.0	3106.4	2819.6	2719.9	2590.1	2460.3	2384.9	2384.9
60°	11344.7	4455.8	2620.3	2650.5	2780.3	2626.4	2538.8	2406.0	2264.1	2197.7	2197.7
62.5°	6707.8	2795.4	2173.5	2140.3	2221.8	2318.4	2366.7	2258.1	2089.0	2001.5	2004.5
65°	2955.4	2034.7	1916.9	1889.8	1865.6	1932.0	2064.9	2073.9	1895.8	1793.2	1796.2
67.5°	1820.3	1841.5	1793.2	1772.0	1750.9	1738.8	1726.8	1732.8	1684.5	1590.9	1587.9
70°	1642.2	1699.6	1666.4	1648.3	1621.1	1600.0	1527.5	1409.8	1328.3	1304.1	1331.3
72.5°	1412.8	1491.3	1473.2	1464.1	1430.9	1379.6	1283.0	1168.3	1071.7	1011.3	1023.4
75°	1065.6	1129.0	1138.1	1141.1	1104.9	1056.6	957.0	860.4	775.8	712.4	727.5
77.5°	612.8	649.0	658.1	667.2	640.0	621.9	555.5	486.0	440.7	374.3	392.4
80°	341.1	356.2	356.2	359.2	344.1	323.0	277.7	238.5	217.4	187.2	190.2
82.5°	205.3	211.3	214.3	217.4	208.3	187.2	154.0	126.8	114.7	99.6	96.6
85°	99.6	105.7	105.7	108.7	93.6	81.5	63.4	48.3	42.3	30.2	33.2
87.5°	24.2	27.2	27.2	24.2	21.1	15.1	9.1	3.0	0.0	0.0	0.0
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)