

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: P641355

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
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  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42938.3 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

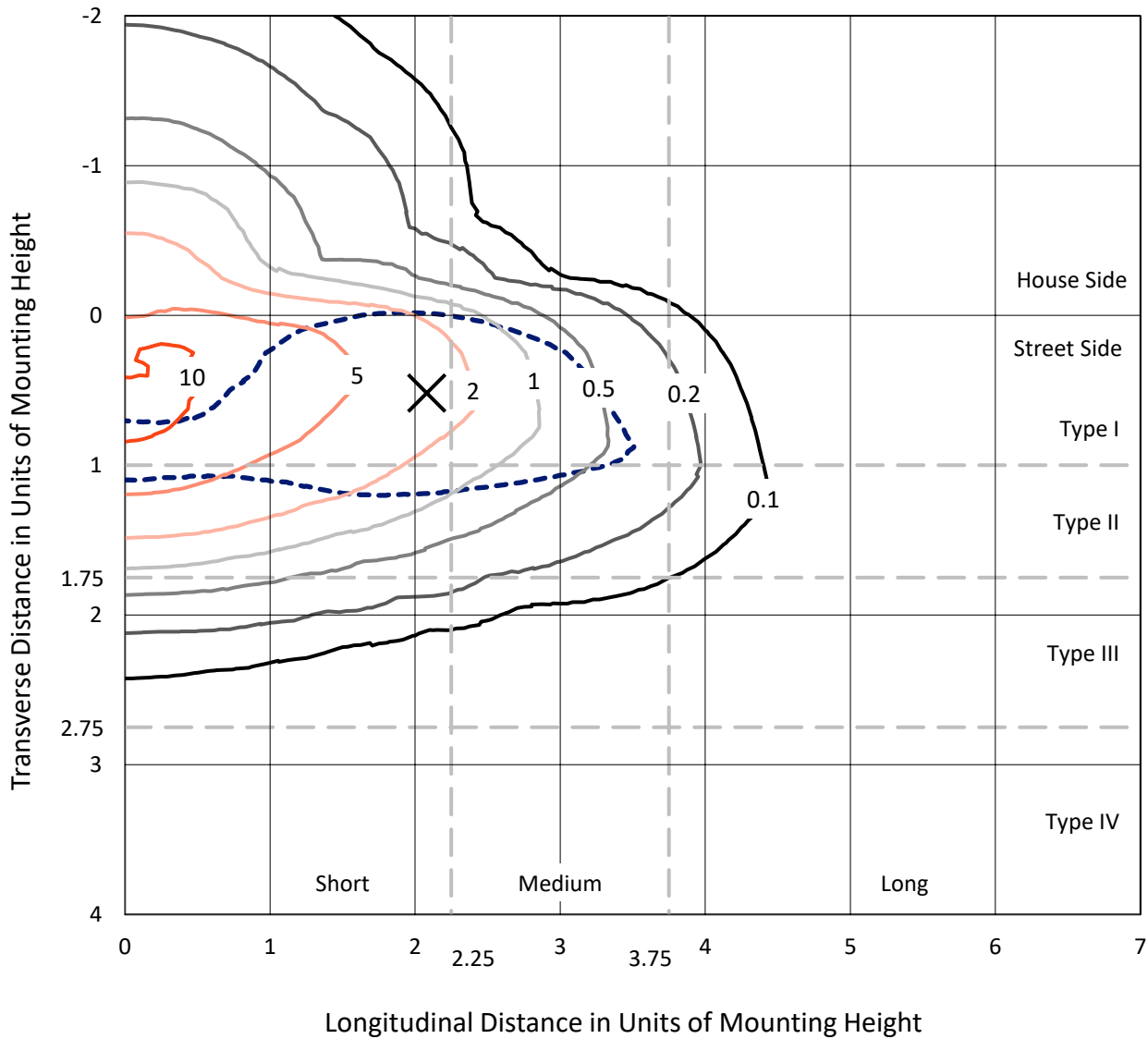
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P641355  
 CATALOG NUMBER: GWS-SA5F-760-U-T2R-W

### Iso-Footcandle Lines of Horizontal Illumination

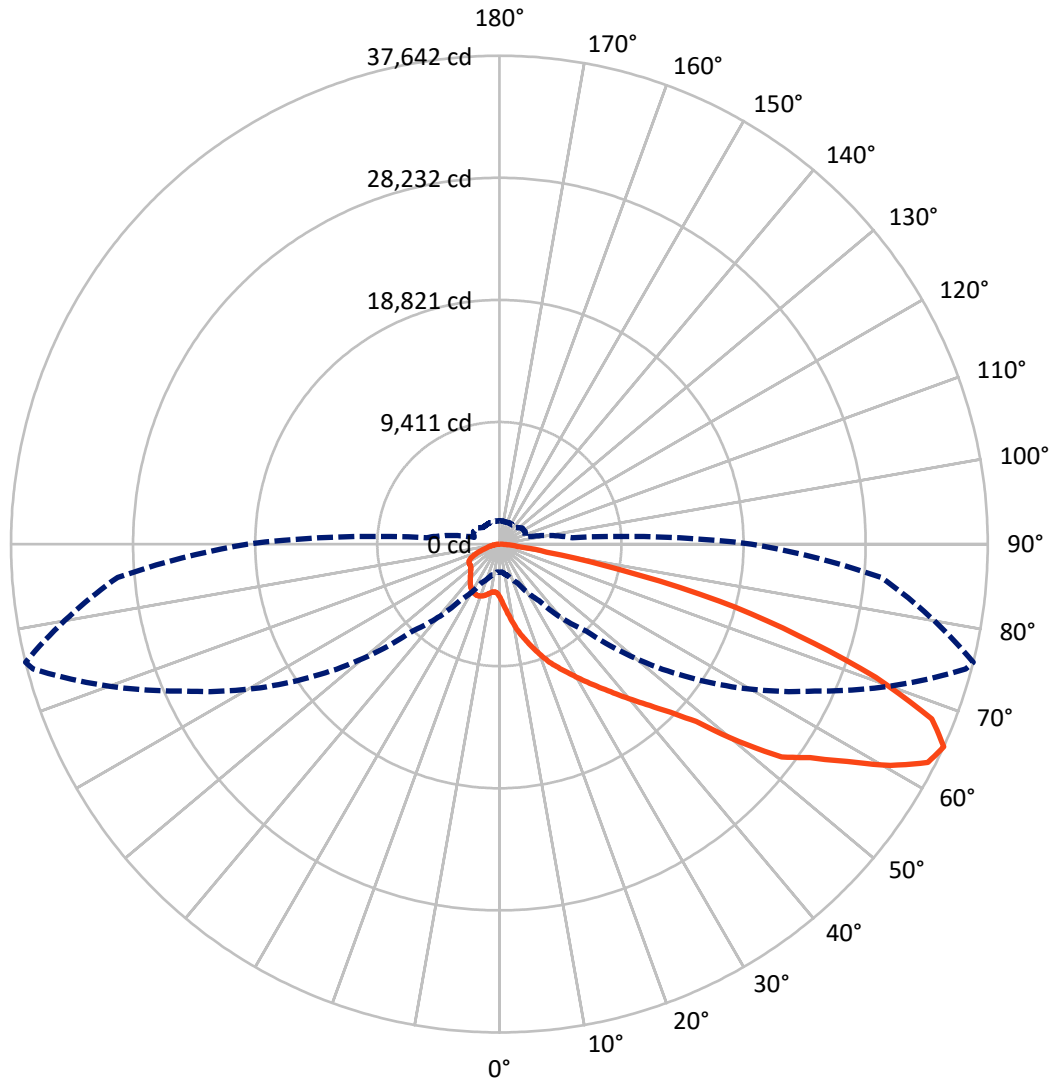
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P641355  
CATALOG NUMBER: GWS-SA5F-760-U-T2R-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P641355

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

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7177.2	0.0	7177.2
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	35761.1	0.0	35761.1
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	42938.3	0.0	42938.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.1	1.1
10°-20°	1840.0	4.3
20°-30°	3585.9	8.4
30°-40°	5997.1	14.0
40°-50°	8586.7	20.0
50°-60°	10165.5	23.7
60°-70°	8452.7	19.7
70°-80°	3459.1	8.1
80°-90°	368.3	0.9
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°	42938.3	100.0
0°-180°	42938.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P641355

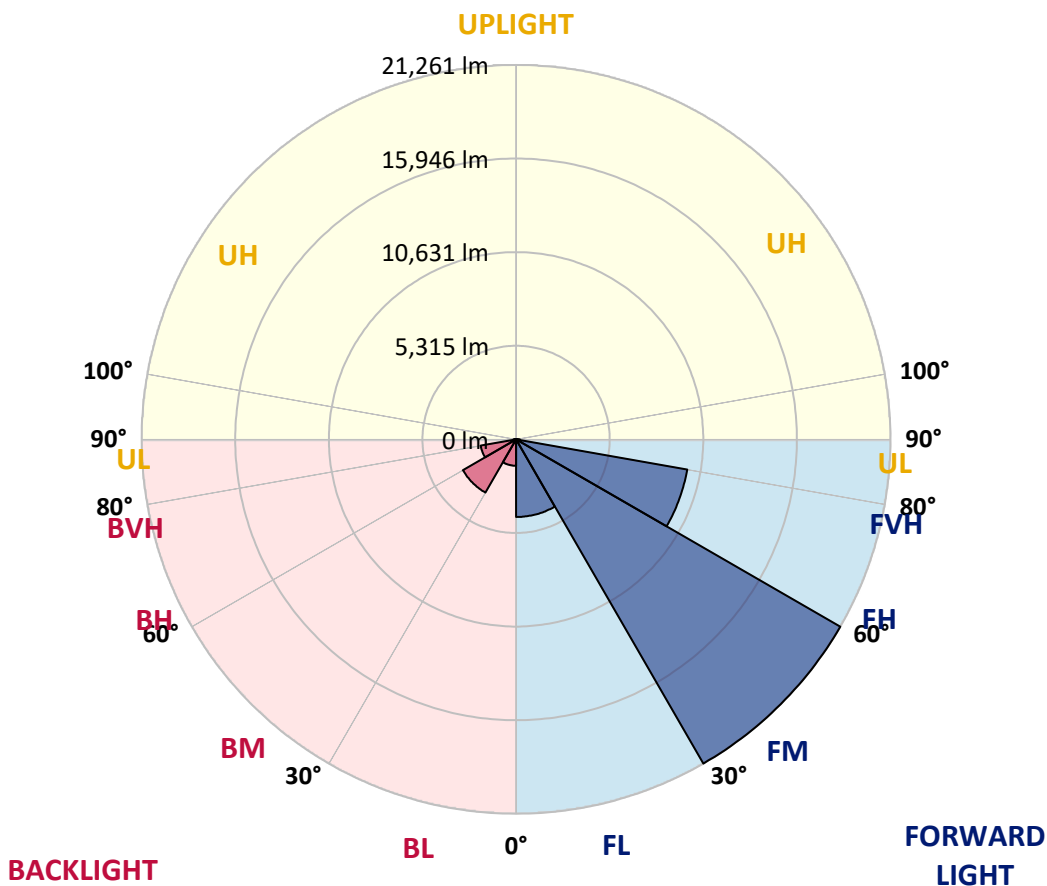
CATALOG NUMBER: GWS-SA5F-760-U-T2R-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4407.5	10.3			
FM (30°-60°)	21261.4	49.5			
FH (60°-80°)	9872.6	23.0			G4/12000
FVH (80°-90°)	219.6	0.5			G2/225
BL (0°-30°)	1501.5	3.5	B3/2500		
BM (30°-60°)	3488.0	8.1	B3/5000		
BH (60°-80°)	2039.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	148.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





REPORT NUMBER: P641355  
 CATALOG NUMBER: GWS-SA5F-760-U-T2R-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4066.1	4066.1	4066.1	4066.1	4066.1	4066.1	4066.1	4066.1	4066.1	4066.1	4066.1
2.5°	5699.2	5720.3	5650.9	5626.7	5463.7	5243.4	5059.2	4781.5	4524.9	4485.7	4256.3
5°	7238.7	7148.1	7069.6	7018.3	6791.9	6541.4	6152.0	5629.8	5083.4	5017.0	4521.9
7.5°	8153.3	8138.2	8041.6	8011.5	7836.4	7585.8	7184.3	6535.3	5741.4	5632.8	4881.1
10°	8886.9	8877.8	8829.5	8856.7	8696.7	8452.2	8062.8	7392.6	6462.9	6354.2	5282.6
12.5°	9526.8	9541.9	9532.8	9632.5	9551.0	9360.8	8956.3	8219.7	7184.3	7066.6	5771.6
15°	9994.7	10006.8	10052.0	10269.4	10314.7	10275.4	9864.9	9031.7	7896.7	7727.7	6275.7
17.5°	10127.5	10151.7	10260.3	10610.5	10855.0	11018.0	10713.1	9858.9	8597.1	8412.9	6788.9
20°	10305.6	10332.8	10441.5	10806.7	11165.9	11537.2	11482.9	10698.0	9303.4	9152.5	7308.1
22.5°	11129.7	11108.6	11060.3	11235.4	11491.9	11953.8	12089.6	11504.0	10033.9	9889.0	7881.7
25°	12717.5	12678.3	12370.4	12210.4	12125.8	12406.6	12648.1	12237.5	10746.3	10529.0	8415.9
27.5°	14468.3	14447.2	14054.8	13674.4	13155.2	13034.5	13176.3	12877.5	11437.6	11217.2	8880.8
30°	16125.5	16062.1	15651.6	15174.7	14480.4	13961.2	13752.9	13505.4	12195.3	11965.9	9424.2
32.5°	17607.7	17526.2	17043.2	16514.9	15787.4	15174.7	14552.8	14172.5	13052.6	12786.9	9979.6
35°	18824.2	18742.7	18247.6	17686.2	16886.2	16433.4	15582.2	14897.0	13925.0	13656.3	10634.6
37.5°	19766.0	19690.5	19174.4	18621.9	17924.6	17565.4	16825.9	15712.0	14930.2	14649.4	11328.9
40°	20294.3	20239.9	19826.4	19388.7	18803.1	18492.1	18160.1	16741.3	16056.1	15775.4	12147.0
42.5°	20454.3	20418.0	20128.2	19901.8	19506.4	19271.0	19461.1	17951.8	17257.5	17013.0	13067.7
45°	20052.8	20052.8	19968.3	20083.0	20101.1	20098.1	20765.2	19319.2	18733.6	18465.0	14365.7
47.5°	19026.4	19092.9	19216.6	19781.1	20375.8	20873.8	22289.6	21142.5	20632.4	20412.0	16204.0
50°	17148.9	17330.0	17752.6	18854.4	20119.2	21387.0	23732.5	23838.1	24324.1	23934.7	18908.7
52.5°	14398.9	14371.7	15449.4	17019.1	18948.0	21408.1	24526.4	26216.8	27523.9	27255.2	20919.1
55°	11443.6	11398.4	12403.6	14567.9	17151.9	20599.1	25003.3	27306.6	29298.8	29057.4	22727.3
57.5°	8763.1	8705.7	9599.3	11552.3	14616.2	18881.5	24912.8	28604.6	31740.9	31617.2	25184.5
60°	6031.2	5961.8	6798.0	8506.5	11615.7	16255.3	23910.6	29271.7	34599.6	34641.8	27813.7
62.5°	3622.4	3583.1	4189.9	5515.0	8355.6	13001.3	21565.1	28867.2	36875.6	37065.8	29504.1
65°	2185.5	2158.3	2514.5	3290.3	5300.7	9487.6	17948.8	26799.4	37204.6	37642.4	29543.4
67.5°	1590.8	1593.8	1696.5	2004.4	3091.1	6127.8	13469.1	23092.5	35490.1	35942.9	27680.9
70°	1382.5	1388.6	1442.9	1512.3	1868.5	3507.7	8757.1	18229.5	30421.8	30771.9	23216.3
72.5°	1228.6	1228.6	1264.8	1301.0	1461.0	2137.2	4691.0	12741.6	24010.2	24103.8	17719.4
75°	1080.7	1071.6	1089.7	1107.8	1267.8	1494.2	2282.1	8877.8	17734.5	17517.1	11452.7
77.5°	860.3	851.3	854.3	872.4	1017.3	1068.6	1156.1	5545.2	9994.7	9433.2	5059.2
80°	612.8	606.7	640.0	685.2	751.6	655.0	724.5	2683.6	3963.5	3688.8	1962.1
82.5°	365.3	377.3	428.6	464.9	519.2	410.5	467.9	896.5	1403.7	1367.4	796.9
85°	51.3	54.3	154.0	178.1	223.4	160.0	247.5	404.5	561.5	600.7	280.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	21.1	72.4	160.0	163.0	69.4
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: P641355  
 CATALOG NUMBER: GWS-SA5F-760-U-T2R-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4066.1	4066.1	4066.1	4066.1	4066.1	4066.1	4066.1	4066.1	4066.1	4066.1	4066.1
2.5°	4138.5	3996.7	3794.4	3625.4	3483.5	3368.8	3272.2	3199.8	3178.6	3148.4	3148.4
5°	4289.5	4032.9	3670.7	3414.1	3266.2	3178.6	3118.2	3088.1	3073.0	3054.9	3045.8
7.5°	4497.8	4138.5	3649.5	3389.9	3275.2	3220.9	3181.6	3163.5	3151.5	3133.3	3133.3
10°	4784.5	4295.5	3715.9	3474.4	3383.9	3329.6	3284.3	3254.1	3226.9	3199.8	3193.7
12.5°	5095.5	4500.8	3836.7	3589.2	3492.6	3426.1	3362.8	3317.5	3284.3	3251.1	3242.0
15°	5439.6	4712.1	3966.5	3700.8	3580.1	3489.5	3414.1	3344.6	3299.4	3251.1	3245.0
17.5°	5777.7	4926.4	4075.2	3776.3	3622.4	3510.7	3402.0	3311.4	3254.1	3199.8	3184.7
20°	6182.2	5140.7	4150.6	3797.4	3613.3	3465.4	3335.6	3220.9	3157.5	3094.1	3085.0
22.5°	6553.5	5340.0	4186.8	3767.3	3543.9	3368.8	3217.9	3094.1	3024.7	2961.3	2949.2
25°	6912.7	5515.0	4171.8	3694.8	3438.2	3236.0	3079.0	2955.2	2888.8	2822.4	2804.3
27.5°	7259.8	5632.8	4111.4	3583.1	3305.4	3088.1	2937.1	2825.4	2768.1	2710.7	2686.6
30°	7600.9	5741.4	4017.8	3438.2	3136.4	2934.1	2810.3	2731.9	2674.5	2614.1	2596.0
32.5°	7945.0	5819.9	3875.9	3269.2	2964.3	2798.3	2722.8	2665.5	2605.1	2544.7	2526.6
35°	8292.2	5853.1	3703.9	3076.0	2819.4	2710.7	2683.6	2617.2	2535.7	2463.2	2439.1
37.5°	8705.7	5883.3	3489.5	2885.8	2692.6	2668.5	2662.4	2562.8	2466.2	2366.6	2339.4
40°	9203.8	5922.6	3269.2	2713.8	2590.0	2653.4	2629.2	2493.4	2300.2	2203.6	2173.4
42.5°	9813.6	5995.0	3039.8	2556.8	2514.5	2596.0	2568.9	2324.3	2194.5	2140.2	2125.1
45°	10710.1	6260.6	2810.3	2433.0	2457.2	2514.5	2472.3	2224.7	2173.4	2137.2	2119.1
47.5°	12307.0	6668.2	2611.1	2339.4	2411.9	2442.1	2279.1	2197.6	2158.3	2110.0	2088.9
50°	13967.2	6846.3	2451.1	2282.1	2360.6	2375.7	2173.4	2161.3	2134.2	2082.9	2061.7
52.5°	15090.1	6822.1	2354.5	2261.0	2318.3	2261.0	2125.1	2122.1	2104.0	2043.6	2019.5
55°	16358.0	6864.4	2312.3	2267.0	2300.2	2067.8	2064.7	2073.8	2064.7	1998.3	1986.3
57.5°	18069.5	6994.2	2291.1	2288.1	2288.1	1974.2	2007.4	2019.5	2001.4	1971.2	1962.1
60°	19714.7	7003.2	2251.9	2312.3	2279.1	1916.8	1941.0	1953.1	1931.9	1925.9	1922.9
62.5°	20333.5	6568.5	2164.4	2294.2	2242.8	1853.4	1871.6	1877.6	1856.5	1871.6	1868.5
65°	19412.8	5644.8	2019.5	2206.6	2131.2	1796.1	1784.0	1799.1	1762.9	1802.1	1805.1
67.5°	17236.4	4485.7	1799.1	2040.6	1974.2	1732.7	1708.5	1708.5	1648.2	1708.5	1705.5
70°	13897.8	3169.6	1476.1	1775.0	1802.1	1657.2	1645.2	1575.7	1479.1	1569.7	1560.6
72.5°	10535.0	2276.0	1162.2	1403.7	1551.6	1551.6	1554.6	1436.9	1325.2	1367.4	1331.2
75°	6674.2	1602.9	929.7	1074.6	1216.5	1361.4	1430.8	1213.5	1113.9	1095.8	1077.7
77.5°	3006.6	1053.5	724.5	824.1	863.3	1074.6	1307.1	1044.4	908.6	869.4	857.3
80°	1258.8	655.0	516.2	582.6	531.3	902.6	1153.1	812.0	667.1	612.8	573.5
82.5°	552.4	389.4	329.0	313.9	332.0	670.1	860.3	540.3	416.6	564.5	570.5
85°	232.4	205.3	169.0	154.0	135.8	256.6	404.5	211.3	259.6	147.9	120.7
87.5°	54.3	60.4	45.3	30.2	18.1	3.0	0.0	0.0	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)