

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: P643720

Luminaire Tested: GWS-SA6F-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643720
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-SA6F-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50749.4 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

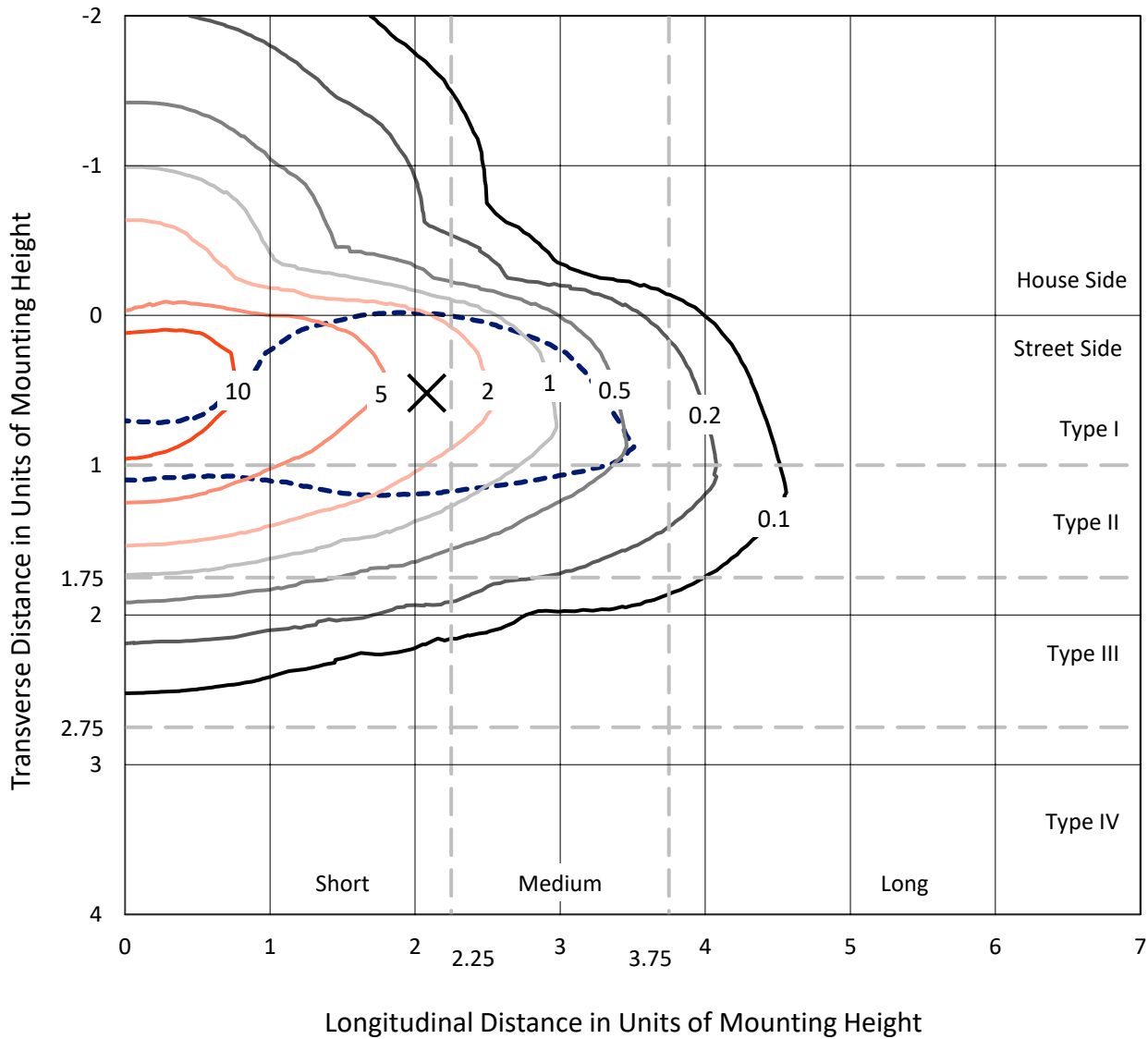
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643720
 CATALOG NUMBER: GWS-SA6F-740-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination

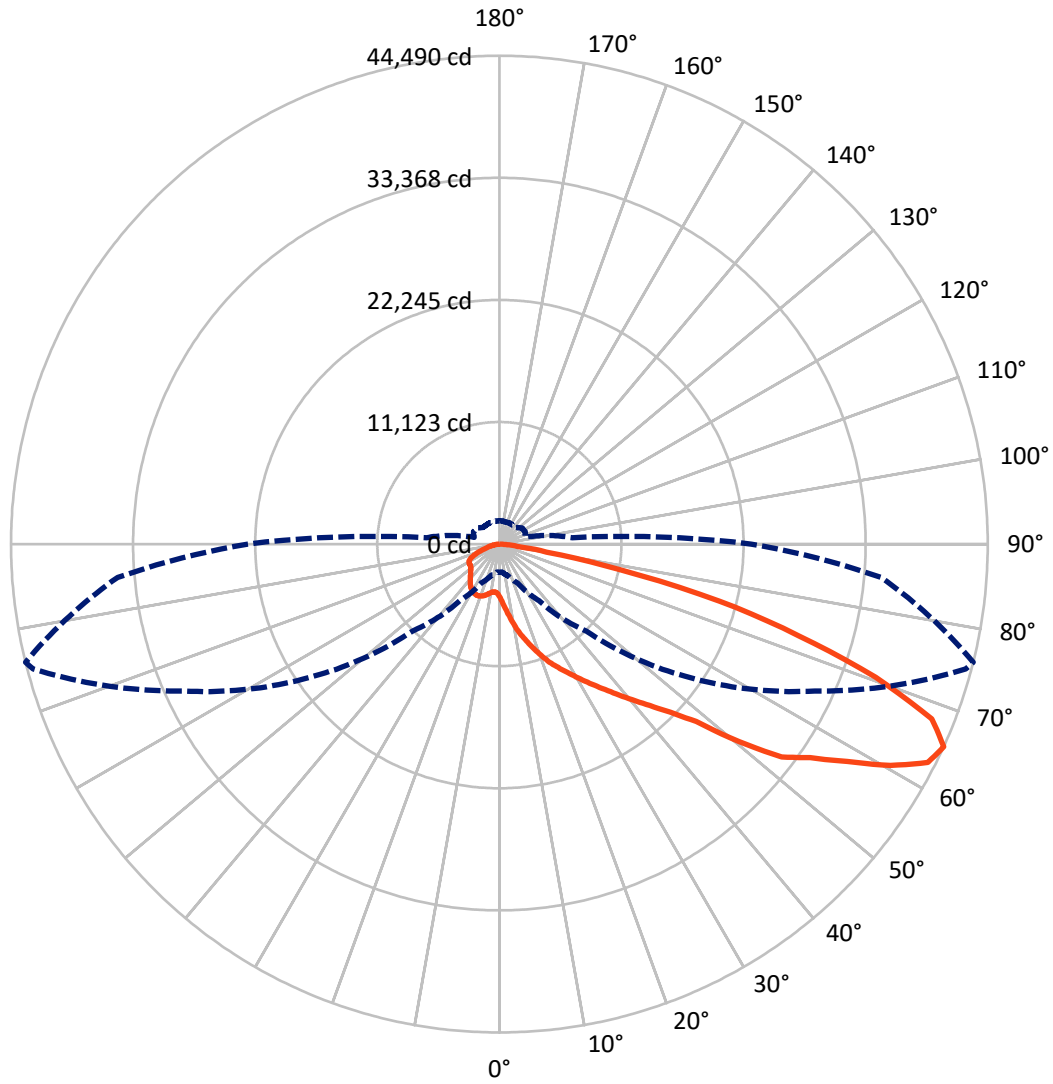
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

REPORT NUMBER: P643720
CATALOG NUMBER: GWS-SA6F-740-U-T2R-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P643720

CATALOG NUMBER: GWS-SA6F-740-U-T2R-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8482.8	0.0	8482.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	42266.6	0.0	42266.6
	% Fixture	83.3	0.0	83.3
Total	Lumens	50749.4	0.0	50749.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.9	1.1
10°-20°	2174.7	4.3
20°-30°	4238.2	8.4
30°-40°	7088.1	14.0
40°-50°	10148.8	20.0
50°-60°	12014.8	23.7
60°-70°	9990.3	19.7
70°-80°	4088.3	8.1
80°-90°	435.3	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°	50749.4	100.0
0°-180°	50749.4	100.0

Coefficient of Utilization



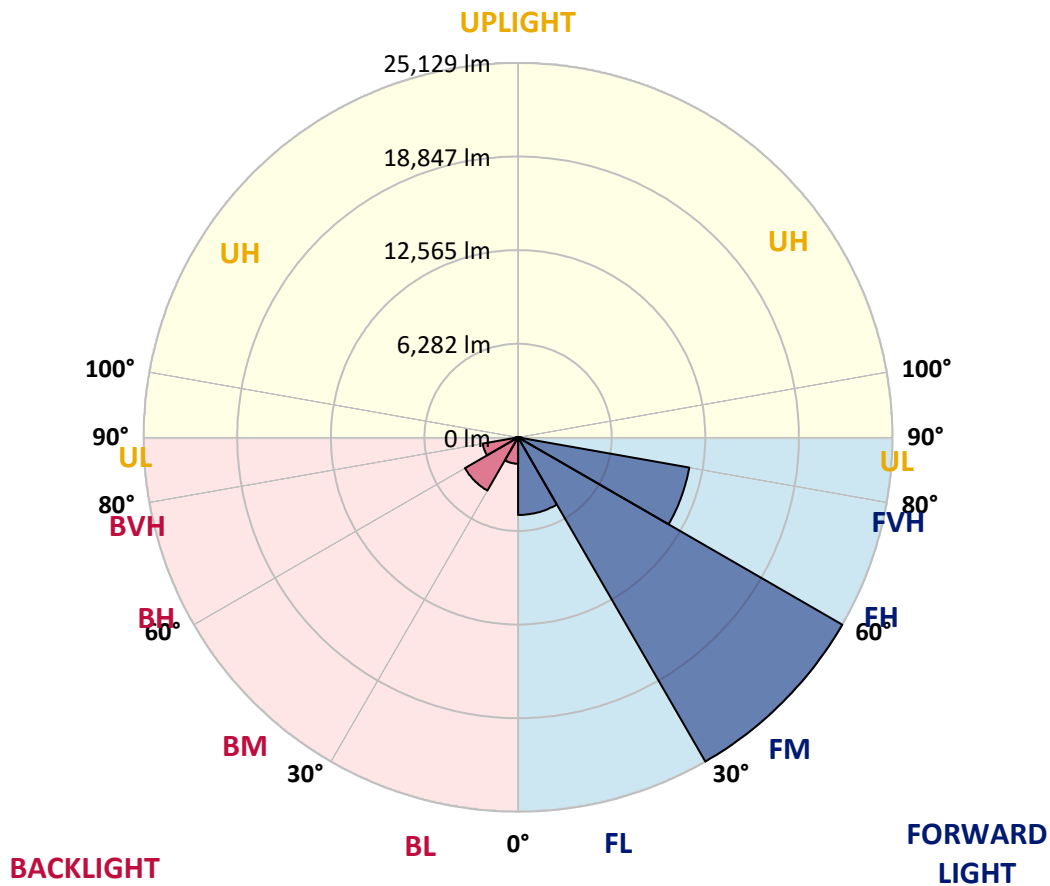
REPORT NUMBER: P643720

CATALOG NUMBER: GWS-SA6F-740-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5209.2	10.3			
FM (30°-60°)	25129.2	49.5			
FH (60°-80°)	11668.6	23.0			G4/12000
FVH (80°-90°)	259.6	0.5			G3/500
BL (0°-30°)	1774.6	3.5	B3/2500		
BM (30°-60°)	4122.5	8.1	B3/5000		
BH (60°-80°)	2410.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	175.7	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: P643720

CATALOG NUMBER: GWS-SA6F-740-U-T2R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4805.8	4805.8	4805.8	4805.8	4805.8	4805.8	4805.8	4805.8	4805.8	4805.8	4805.8
2.5°	6735.9	6760.9	6678.9	6650.3	6457.7	6197.2	5979.6	5651.3	5348.1	5301.7	5030.5
5°	8555.5	8448.5	8355.7	8295.1	8027.5	7731.3	7271.1	6653.9	6008.1	5929.6	5344.5
7.5°	9636.5	9618.7	9504.5	9468.9	9261.9	8965.8	8491.3	7724.2	6785.9	6657.5	5769.1
10°	10503.5	10492.8	10435.7	10467.8	10278.7	9989.7	9529.5	8737.5	7638.6	7510.1	6243.6
12.5°	11259.9	11277.7	11267.0	11384.7	11288.4	11063.6	10585.6	9715.0	8491.3	8352.1	6821.6
15°	11812.9	11827.1	11880.7	12137.5	12191.1	12144.7	11659.5	10674.8	9333.3	9133.5	7417.4
17.5°	11969.9	11998.4	12126.8	12540.7	12829.7	13022.3	12662.0	11652.3	10161.0	9943.4	8023.9
20°	12180.4	12212.5	12340.9	12772.6	13197.2	13636.0	13571.8	12644.2	10995.9	10817.5	8637.6
22.5°	13154.4	13129.4	13072.3	13279.2	13582.5	14128.4	14288.9	13596.8	11859.3	11688.0	9315.4
25°	15031.0	14984.6	14620.7	14431.6	14331.7	14663.5	14948.9	14463.7	12701.2	12444.4	9946.9
27.5°	17100.3	17075.3	16611.5	16162.0	15548.3	15405.6	15573.3	15220.1	13518.3	13257.8	10496.4
30°	19059.0	18984.1	18498.9	17935.2	17114.6	16500.9	16254.7	15962.2	14413.8	14142.6	11138.6
32.5°	20810.8	20714.4	20143.6	19519.2	18659.4	17935.2	17200.2	16750.7	15427.0	15113.1	11795.0
35°	22248.6	22152.3	21567.1	20903.5	19958.1	19422.9	18416.8	17606.9	16458.1	16140.6	12569.2
37.5°	23361.7	23272.5	22662.4	22009.5	21185.4	20760.8	19886.7	18570.2	17646.2	17314.4	13389.8
40°	23986.1	23921.9	23433.1	22915.8	22223.6	21856.1	21463.7	19786.8	18976.9	18645.1	14356.7
42.5°	24175.2	24132.4	23789.9	23522.3	23054.9	22776.6	23001.4	21217.5	20396.9	20107.9	15444.9
45°	23700.7	23700.7	23600.8	23736.3	23757.8	23754.2	24542.7	22833.7	22141.6	21824.0	16979.0
47.5°	22487.6	22566.1	22712.4	23379.6	24082.4	24671.1	26344.4	24988.6	24385.7	24125.2	19151.8
50°	20268.5	20482.5	20982.0	22284.3	23779.2	25277.6	28049.8	28174.6	28749.1	28288.8	22348.5
52.5°	17018.2	16986.1	18259.8	20115.1	22394.9	25302.6	28988.1	30986.0	32530.9	32213.4	24724.6
55°	13525.4	13471.9	14659.9	17218.0	20272.0	24346.4	29551.8	32274.0	34628.7	34343.3	26861.7
57.5°	10357.2	10289.4	11345.5	13653.8	17275.1	22316.4	29444.8	33808.1	37515.1	37368.8	29765.9
60°	7128.4	7046.3	8034.6	10054.0	13728.8	19212.4	28260.3	34596.6	40893.7	40943.7	32873.4
62.5°	4281.3	4234.9	4952.1	6518.3	9875.6	15366.4	25488.1	34118.5	43583.8	43808.6	34871.3
65°	2583.1	2551.0	2971.9	3888.9	6265.0	11213.5	21213.9	31674.6	43972.7	44490.0	34917.7
67.5°	1880.2	1883.8	2005.1	2369.0	3653.4	7242.6	15919.4	27293.4	41946.2	42481.4	32716.4
70°	1634.0	1641.2	1705.4	1787.5	2208.4	4145.7	10350.1	21545.7	35955.9	36369.8	27439.7
72.5°	1452.1	1452.1	1494.9	1537.7	1726.8	2526.0	5544.3	15059.5	28378.0	28488.6	20942.8
75°	1277.3	1266.6	1288.0	1309.4	1498.5	1766.0	2697.2	10492.8	20960.6	20703.7	13536.1
77.5°	1016.8	1006.1	1009.7	1031.1	1202.3	1263.0	1366.5	6554.0	11812.9	11149.3	5979.6
80°	724.3	717.1	756.4	809.9	888.4	774.2	856.3	3171.7	4684.5	4359.8	2319.0
82.5°	431.7	446.0	506.6	549.4	613.7	485.2	553.0	1059.6	1659.0	1616.2	941.9
85°	60.7	64.2	182.0	210.5	264.0	189.1	292.6	478.1	663.6	710.0	331.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	25.0	85.6	189.1	192.7	82.1
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: P643720
 CATALOG NUMBER: GWS-SA6F-740-U-T2R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4805.8	4805.8	4805.8	4805.8	4805.8	4805.8	4805.8	4805.8	4805.8	4805.8	4805.8
2.5°	4891.4	4723.7	4484.7	4284.9	4117.2	3981.6	3867.5	3781.8	3756.9	3721.2	3721.2
5°	5069.8	4766.5	4338.4	4035.1	3860.3	3756.9	3685.5	3649.8	3632.0	3610.6	3599.9
7.5°	5316.0	4891.4	4313.4	4006.6	3871.0	3806.8	3760.4	3739.0	3724.7	3703.3	3703.3
10°	5654.9	5076.9	4391.9	4106.5	3999.5	3935.2	3881.7	3846.1	3813.9	3781.8	3774.7
12.5°	6022.4	5319.5	4534.6	4242.1	4127.9	4049.4	3974.5	3921.0	3881.7	3842.5	3831.8
15°	6429.1	5569.3	4688.0	4374.1	4231.4	4124.3	4035.1	3953.1	3899.6	3842.5	3835.3
17.5°	6828.7	5822.6	4816.5	4463.3	4281.3	4149.3	4020.9	3913.8	3846.1	3781.8	3764.0
20°	7306.8	6075.9	4905.7	4488.2	4270.6	4095.8	3942.4	3806.8	3731.9	3657.0	3646.3
22.5°	7745.6	6311.4	4948.5	4452.6	4188.6	3981.6	3803.2	3657.0	3574.9	3500.0	3485.7
25°	8170.2	6518.3	4930.7	4366.9	4063.7	3824.6	3639.1	3492.8	3414.4	3335.9	3314.5
27.5°	8580.5	6657.5	4859.3	4234.9	3906.7	3649.8	3471.4	3339.4	3271.6	3203.9	3175.3
30°	8983.6	6785.9	4748.7	4063.7	3706.9	3467.9	3321.6	3228.8	3161.0	3089.7	3068.3
32.5°	9390.4	6878.7	4581.0	3863.9	3503.5	3307.3	3218.1	3150.3	3079.0	3007.6	2986.2
35°	9800.7	6917.9	4377.6	3635.6	3332.3	3203.9	3171.7	3093.3	2996.9	2911.3	2882.8
37.5°	10289.4	6953.6	4124.3	3410.8	3182.4	3153.9	3146.8	3029.0	2914.9	2797.1	2765.0
40°	10878.1	7000.0	3863.9	3207.4	3061.1	3136.1	3107.5	2947.0	2718.6	2604.5	2568.8
42.5°	11598.8	7085.6	3592.7	3021.9	2971.9	3068.3	3036.2	2747.2	2593.8	2529.5	2511.7
45°	12658.4	7399.5	3321.6	2875.6	2904.2	2971.9	2922.0	2629.4	2568.8	2526.0	2504.6
47.5°	14545.8	7881.2	3086.1	2765.0	2850.6	2886.3	2693.7	2597.3	2551.0	2493.9	2468.9
50°	16508.1	8091.7	2897.0	2697.2	2790.0	2807.8	2568.8	2554.5	2522.4	2461.8	2436.8
52.5°	17835.3	8063.2	2782.9	2672.3	2740.0	2672.3	2511.7	2508.1	2486.7	2415.4	2386.8
55°	19333.7	8113.1	2732.9	2679.4	2718.6	2443.9	2440.4	2451.1	2440.4	2361.9	2347.6
57.5°	21356.6	8266.5	2707.9	2704.4	2704.4	2333.3	2372.6	2386.8	2365.4	2329.8	2319.0
60°	23301.1	8277.2	2661.6	2732.9	2693.7	2265.5	2294.1	2308.3	2283.4	2276.2	2272.7
62.5°	24032.5	7763.5	2558.1	2711.5	2650.9	2190.6	2212.0	2219.2	2194.2	2212.0	2208.4
65°	22944.3	6671.7	2386.8	2608.0	2518.8	2122.8	2108.5	2126.4	2083.6	2130.0	2133.5
67.5°	20371.9	5301.7	2126.4	2411.8	2333.3	2047.9	2019.4	2019.4	1948.0	2019.4	2015.8
70°	16426.0	3746.2	1744.6	2097.8	2130.0	1958.7	1944.4	1862.4	1748.2	1855.2	1844.5
72.5°	12451.5	2690.1	1373.6	1659.0	1833.8	1833.8	1837.4	1698.3	1566.2	1616.2	1573.4
75°	7888.3	1894.5	1098.9	1270.1	1437.8	1609.1	1691.1	1434.2	1316.5	1295.1	1273.7
77.5°	3553.5	1245.2	856.3	974.0	1020.4	1270.1	1544.8	1234.4	1073.9	1027.5	1013.2
80°	1487.8	774.2	610.1	688.6	627.9	1066.8	1362.9	959.7	788.5	724.3	677.9
82.5°	652.9	460.2	388.9	371.0	392.5	792.0	1016.8	638.6	492.4	667.2	674.3
85°	274.7	242.6	199.8	182.0	160.5	303.3	478.1	249.7	306.8	174.8	142.7
87.5°	64.2	71.4	53.5	35.7	21.4	3.6	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)