

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: P643830

Luminaire Tested: GWS-SA6F-760-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643830
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-760-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51200.9 lumens
Efficiency: N/A
Efficacy: 137.4 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

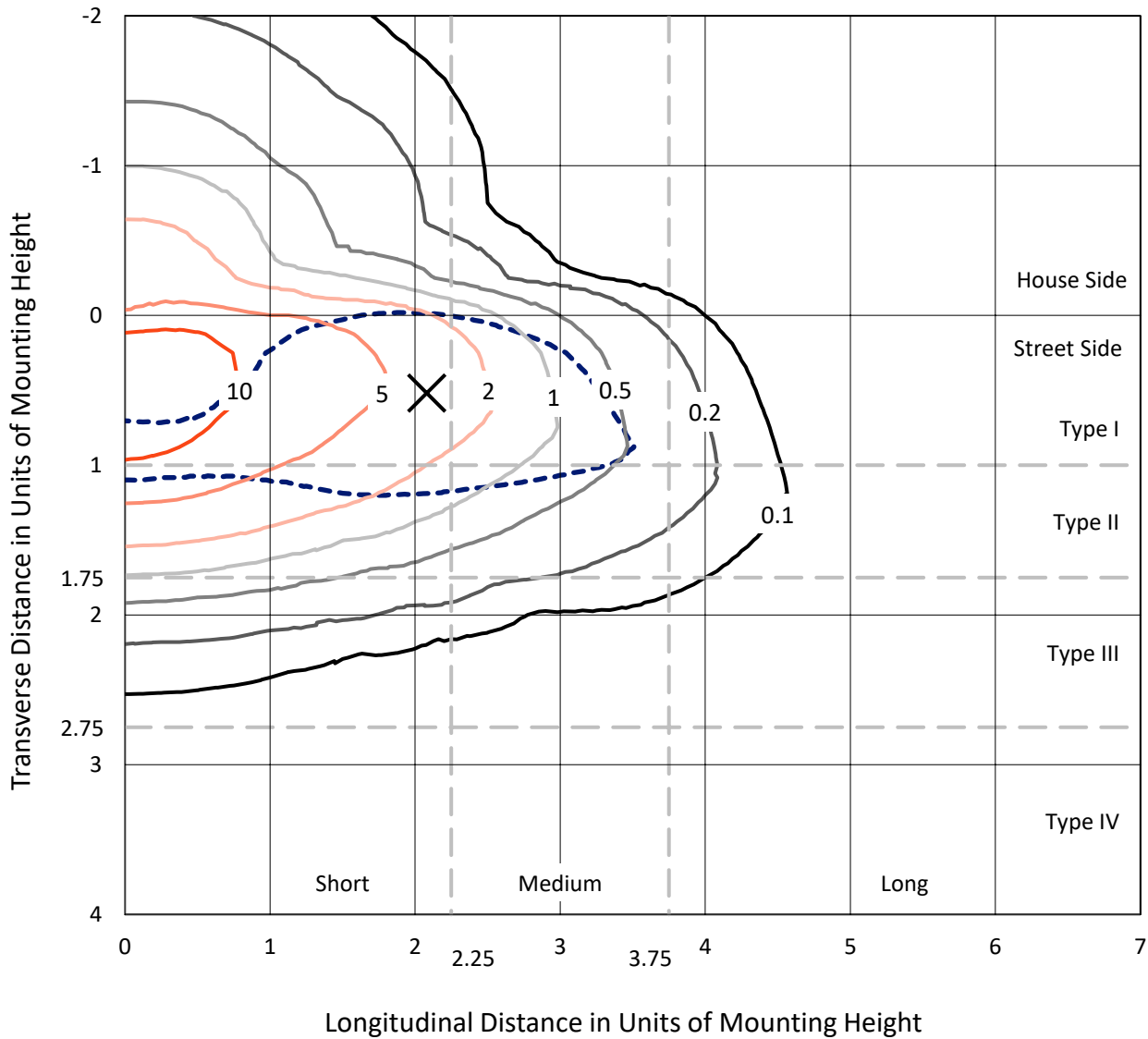


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Iso-Footcandle Lines of Horizontal Illumination

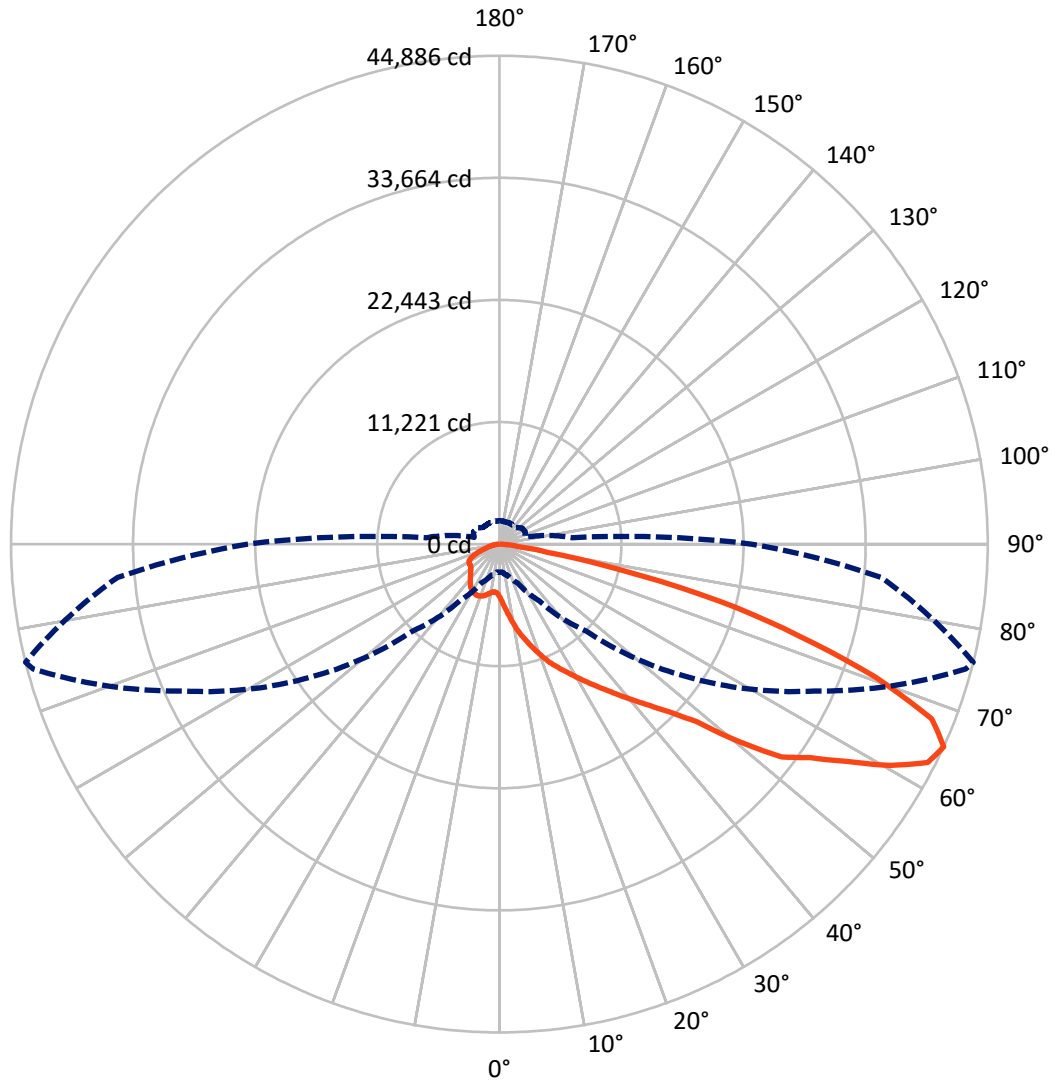
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8558.3	0.0	8558.3
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	42642.6	0.0	42642.6
	% Fixture	83.3	0.0	83.3
Total	Lumens	51200.9	0.0	51200.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.0	1.1
10°-20°	2194.0	4.3
20°-30°	4275.9	8.4
30°-40°	7151.2	14.0
40°-50°	10239.1	20.0
50°-60°	12121.7	23.7
60°-70°	10079.2	19.7
70°-80°	4124.7	8.1
80°-90°	439.1	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°	51200.9	100.0
0°-180°	51200.9	100.0

Coefficient of Utilization



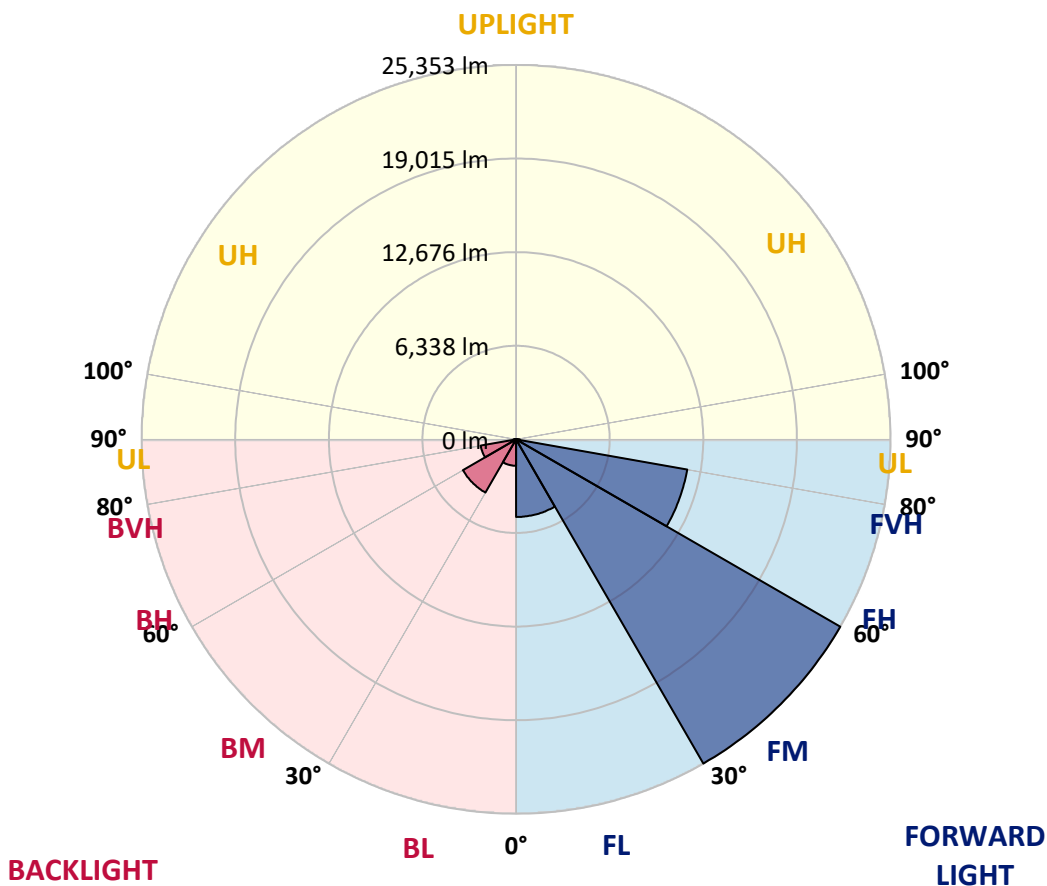
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5255.6	10.3			
FM (30°-60°)	25352.7	49.5			
FH (60°-80°)	11772.4	23.0			G4/12000
FVH (80°-90°)	261.9	0.5			G3/500
BL (0°-30°)	1790.4	3.5	B3/2500		
BM (30°-60°)	4159.1	8.1	B3/5000		
BH (60°-80°)	2431.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	177.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5
2.5°	6795.9	6821.1	6738.3	6709.5	6515.1	6252.3	6032.8	5701.6	5395.7	5348.9	5075.3
5°	8631.6	8523.6	8430.0	8368.9	8098.9	7800.1	7335.8	6713.1	6061.6	5982.4	5392.1
7.5°	9722.3	9704.3	9589.1	9553.1	9344.3	9045.6	8566.8	7792.9	6846.3	6716.7	5820.4
10°	10596.9	10586.2	10528.6	10561.0	10370.2	10078.6	9614.3	8815.2	7706.5	7577.0	6299.1
12.5°	11360.0	11378.0	11367.2	11486.0	11388.8	11162.1	10679.7	9801.5	8566.8	8426.4	6882.3
15°	11918.0	11932.4	11986.4	12245.5	12299.5	12252.7	11763.2	10769.7	9416.3	9214.7	7483.4
17.5°	12076.3	12105.1	12234.7	12652.3	12943.8	13138.2	12774.7	11756.0	10251.4	10031.8	8095.3
20°	12288.7	12321.1	12450.7	12886.2	13314.6	13757.3	13692.5	12756.7	11093.7	10913.7	8714.4
22.5°	13271.4	13246.2	13188.6	13397.4	13703.3	14254.0	14416.0	13717.7	11964.8	11792.0	9398.3
25°	15164.7	15117.9	14750.8	14560.0	14459.2	14794.0	15081.9	14592.4	12814.2	12555.1	10035.4
27.5°	17252.4	17227.2	16759.3	16305.8	15686.7	15542.7	15711.8	15355.5	13638.5	13375.8	10589.7
30°	19228.6	19153.0	18663.4	18094.7	17266.8	16647.7	16399.4	16104.2	14542.0	14268.4	11237.7
32.5°	20995.9	20898.7	20322.8	19692.9	18825.4	18094.7	17353.2	16899.7	15564.3	15247.5	11900.0
35°	22446.5	22349.3	21759.0	21089.5	20135.6	19595.7	18580.7	17763.6	16604.5	16284.2	12681.1
37.5°	23569.6	23479.6	22864.1	22205.4	21373.9	20945.5	20063.7	18735.4	17803.2	17468.4	13508.9
40°	24199.5	24134.7	23641.6	23119.6	22421.3	22050.6	21654.6	19962.9	19145.8	18811.0	14484.4
42.5°	24390.3	24347.1	24001.5	23731.5	23260.0	22979.3	23206.0	21406.3	20578.4	20286.8	15582.3
45°	23911.5	23911.5	23810.7	23947.5	23969.1	23965.5	24761.0	23036.8	22338.5	22018.2	17130.1
47.5°	22687.7	22766.9	22914.5	23587.6	24296.7	24890.6	26578.8	25210.9	24602.6	24339.9	19322.2
50°	20448.8	20664.8	21168.7	22482.5	23990.7	25502.5	28299.3	28425.3	29004.8	28540.5	22547.3
52.5°	17169.6	17137.3	18422.3	20294.0	22594.1	25527.7	29246.0	31261.7	32820.3	32499.9	24944.6
55°	13645.7	13591.7	14790.4	17371.2	20452.4	24563.0	29814.7	32561.1	34936.8	34648.9	27100.7
57.5°	10449.4	10381.0	11446.4	13775.3	17428.8	22514.9	29706.7	34108.9	37848.8	37701.2	30030.7
60°	7191.8	7109.0	8106.1	10143.4	13850.9	19383.3	28511.7	34904.4	41257.5	41307.9	33165.9
62.5°	4319.4	4272.6	4996.1	6576.3	9963.4	15503.1	25714.9	34422.1	43971.6	44198.3	35181.6
65°	2606.0	2573.6	2998.4	3923.5	6320.7	11313.3	21402.7	31956.4	44363.9	44885.9	35228.4
67.5°	1896.9	1900.5	2022.9	2390.1	3685.9	7307.0	16061.0	27536.2	42319.4	42859.3	33007.5
70°	1648.6	1655.8	1720.6	1803.4	2228.1	4182.6	10442.2	21737.4	36275.8	36693.4	27683.8
72.5°	1465.0	1465.0	1508.2	1551.4	1742.2	2548.5	5593.6	15193.5	28630.5	28742.1	21129.1
75°	1288.6	1277.8	1299.4	1321.0	1511.8	1781.8	2721.2	10586.2	21147.1	20887.9	13656.5
77.5°	1025.9	1015.1	1018.7	1040.3	1213.0	1274.2	1378.6	6612.3	11918.0	11248.5	6032.8
80°	730.7	723.5	763.1	817.1	896.3	781.1	863.9	3200.0	4726.2	4398.6	2339.7
82.5°	435.5	449.9	511.1	554.3	619.1	489.5	557.9	1069.1	1673.8	1630.6	950.3
85°	61.2	64.8	183.6	212.4	266.4	190.8	295.2	482.3	669.5	716.3	334.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	25.2	86.4	190.8	194.4	82.8
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°	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5
2.5°	4934.9	4765.7	4524.6	4323.0	4153.8	4017.0	3901.9	3815.5	3790.3	3754.3	3754.3
5°	5114.9	4808.9	4377.0	4071.0	3894.7	3790.3	3718.3	3682.3	3664.3	3642.7	3631.9
7.5°	5363.3	4934.9	4351.8	4042.2	3905.5	3840.7	3793.9	3772.3	3757.9	3736.3	3736.3
10°	5705.2	5122.1	4431.0	4143.0	4035.0	3970.3	3916.3	3880.3	3847.9	3815.5	3808.3
12.5°	6076.0	5366.9	4575.0	4279.8	4164.6	4085.4	4009.9	3955.9	3916.3	3876.7	3865.9
15°	6486.3	5618.8	4729.8	4413.0	4269.0	4161.0	4071.0	3988.3	3934.3	3876.7	3869.5
17.5°	6889.5	5874.4	4859.3	4503.0	4319.4	4186.2	4056.6	3948.7	3880.3	3815.5	3797.5
20°	7371.8	6130.0	4949.3	4528.2	4308.6	4132.2	3977.5	3840.7	3765.1	3689.5	3678.7
22.5°	7814.5	6367.5	4992.5	4492.2	4225.8	4017.0	3837.1	3689.5	3606.7	3531.1	3516.7
25°	8242.9	6576.3	4974.5	4405.8	4099.8	3858.7	3671.5	3523.9	3444.7	3365.5	3343.9
27.5°	8656.8	6716.7	4902.5	4272.6	3941.5	3682.3	3502.3	3369.1	3300.7	3232.4	3203.6
30°	9063.6	6846.3	4790.9	4099.8	3739.9	3498.7	3351.1	3257.6	3189.2	3117.2	3095.6
32.5°	9473.9	6939.8	4621.8	3898.3	3534.7	3336.7	3246.8	3178.4	3106.4	3034.4	3012.8
35°	9887.8	6979.4	4416.6	3667.9	3361.9	3232.4	3200.0	3120.8	3023.6	2937.2	2908.4
37.5°	10381.0	7015.4	4161.0	3441.1	3210.8	3182.0	3174.8	3056.0	2940.8	2822.0	2789.6
40°	10974.9	7062.2	3898.3	3236.0	3088.4	3164.0	3135.2	2973.2	2742.8	2627.6	2591.6
42.5°	11702.0	7148.6	3624.7	3048.8	2998.4	3095.6	3063.2	2771.6	2616.8	2552.1	2534.1
45°	12771.1	7465.4	3351.1	2901.2	2930.0	2998.4	2948.0	2652.8	2591.6	2548.5	2526.9
47.5°	14675.2	7951.3	3113.6	2789.6	2876.0	2912.0	2717.6	2620.4	2573.6	2516.1	2490.9
50°	16654.9	8163.7	2922.8	2721.2	2814.8	2832.8	2591.6	2577.2	2544.9	2483.7	2458.5
52.5°	17993.9	8134.9	2807.6	2696.0	2764.4	2696.0	2534.1	2530.5	2508.9	2436.9	2408.1
55°	19505.7	8185.3	2757.2	2703.2	2742.8	2465.7	2462.1	2472.9	2462.1	2382.9	2368.5
57.5°	21546.6	8340.1	2732.0	2728.4	2728.4	2354.1	2393.7	2408.1	2386.5	2350.5	2339.7
60°	23508.4	8350.9	2685.2	2757.2	2717.6	2285.7	2314.5	2328.9	2303.7	2296.5	2292.9
62.5°	24246.3	7832.5	2580.8	2735.6	2674.4	2210.1	2231.7	2238.9	2213.7	2231.7	2228.1
65°	23148.4	6731.1	2408.1	2631.2	2541.3	2141.7	2127.3	2145.3	2102.1	2148.9	2152.5
67.5°	20553.2	5348.9	2145.3	2433.3	2354.1	2066.1	2037.3	2037.3	1965.3	2037.3	2033.7
70°	16572.1	3779.5	1760.2	2116.5	2148.9	1976.1	1961.7	1878.9	1763.8	1871.7	1860.9
72.5°	12562.3	2714.0	1385.8	1673.8	1850.1	1850.1	1853.7	1713.4	1580.2	1630.6	1587.4
75°	7958.5	1911.3	1108.6	1281.4	1450.6	1623.4	1706.2	1447.0	1328.2	1306.6	1285.0
77.5°	3585.1	1256.2	863.9	982.7	1029.5	1281.4	1558.6	1245.4	1083.5	1036.7	1022.3
80°	1501.0	781.1	615.5	694.7	633.5	1076.3	1375.0	968.3	795.5	730.7	683.9
82.5°	658.7	464.3	392.3	374.3	395.9	799.1	1025.9	644.3	496.7	673.1	680.3
85°	277.2	244.8	201.6	183.6	162.0	306.0	482.3	252.0	309.6	176.4	144.0
87.5°	64.8	72.0	54.0	36.0	21.6	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)