

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: P643940

Luminaire Tested: GWS-SA6F-830-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643940
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-SAGF-830-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40314.8 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

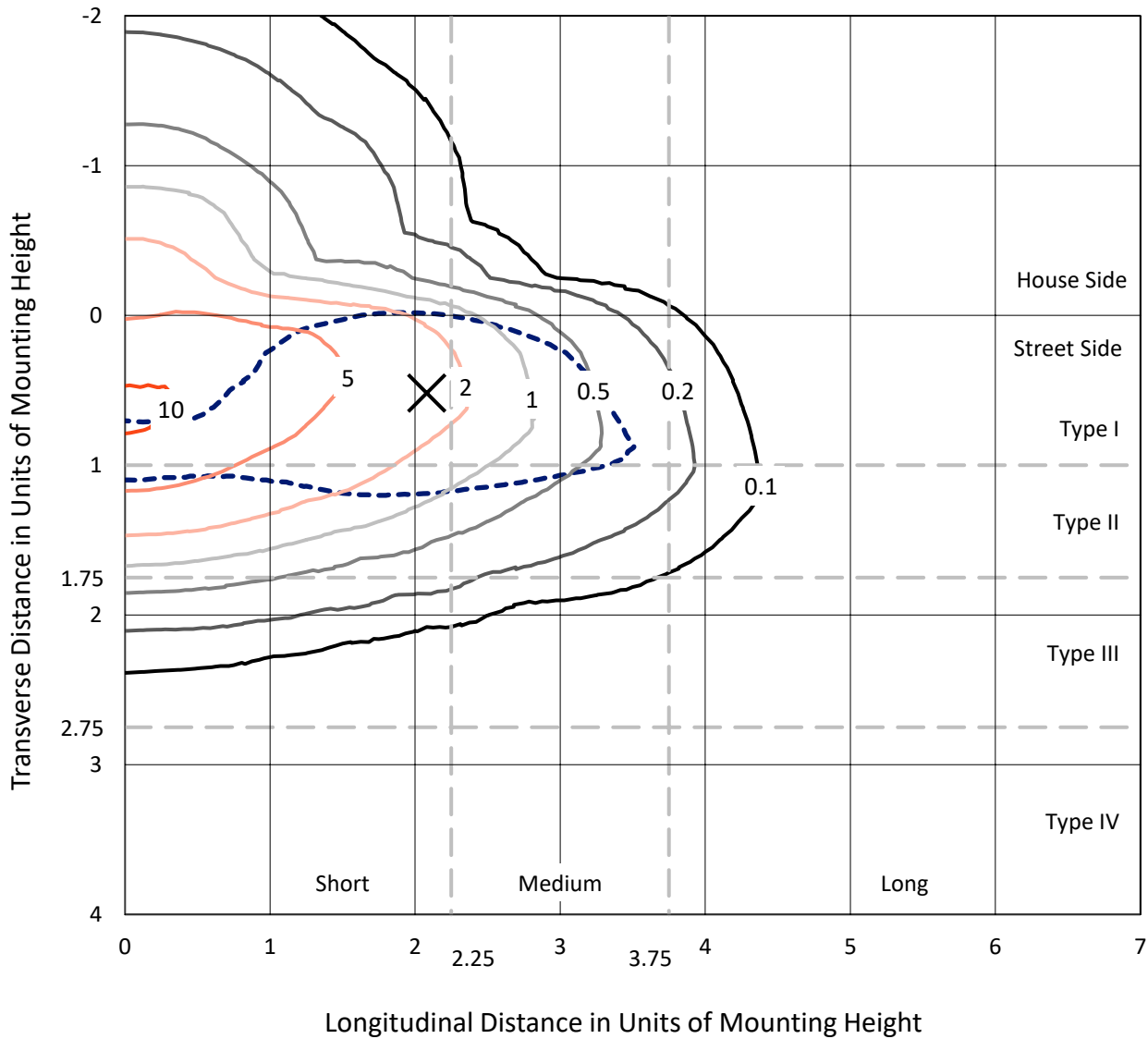
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

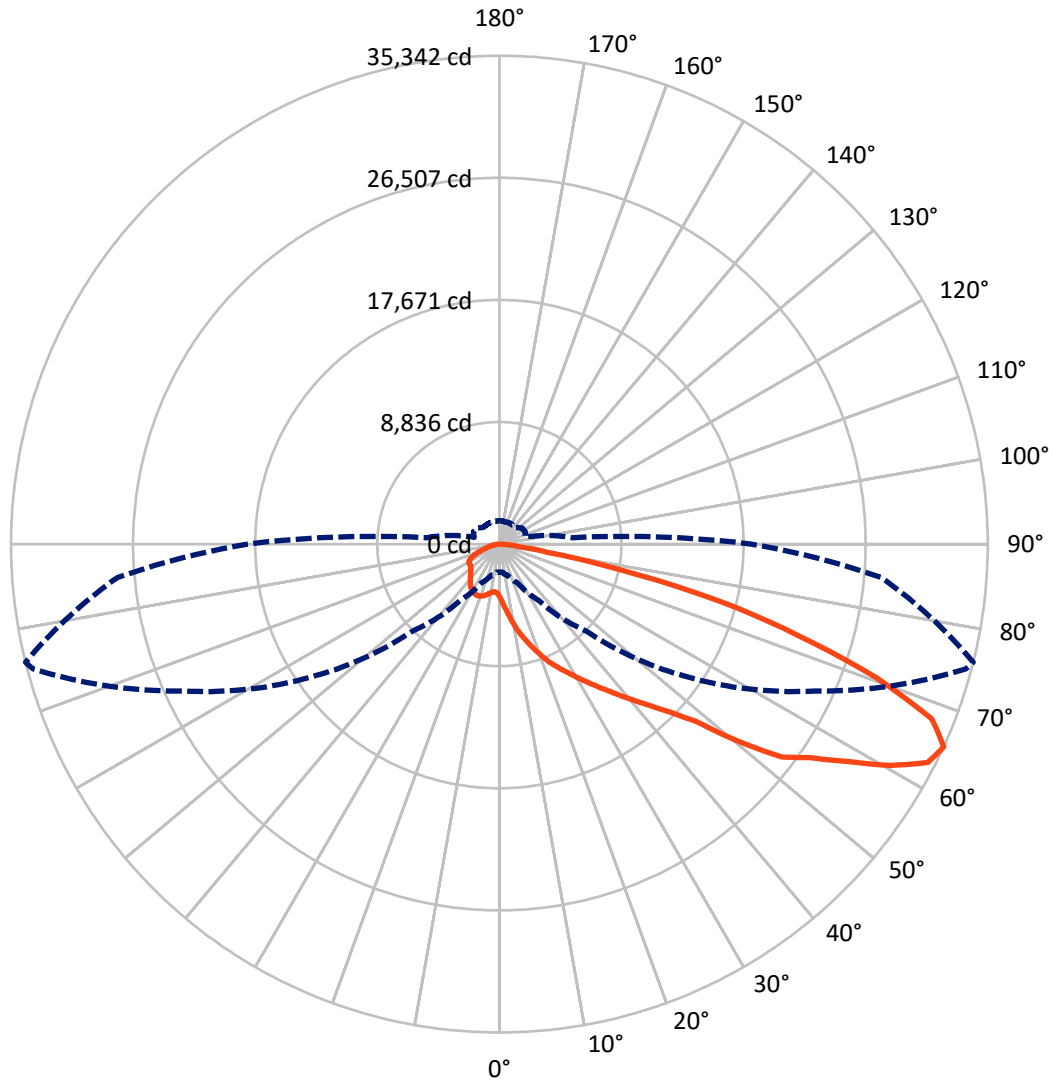
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 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	6738.6	0.0	6738.6
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	33576.1	0.0	33576.1
	% Fixture	83.3	0.0	83.3
Total	Lumens	40314.8	0.0	40314.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.6	1.1
10°-20°	1727.6	4.3
20°-30°	3366.8	8.4
30°-40°	5630.7	14.0
40°-50°	8062.1	20.0
50°-60°	9544.4	23.7
60°-70°	7936.2	19.7
70°-80°	3247.7	8.1
80°-90°	345.8	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°	40314.8	100.0
0°-180°	40314.8	100.0

Coefficient of Utilization



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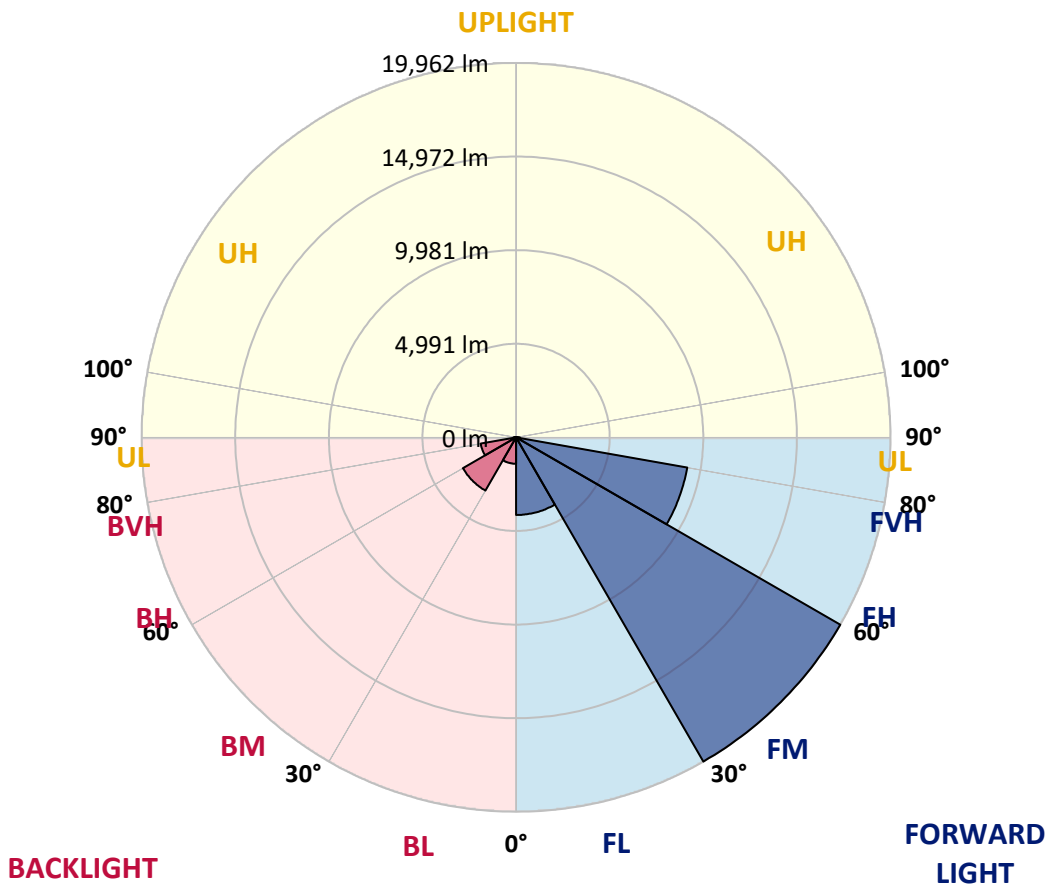
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4138.2	10.3			
FM (30°-60°)	19962.4	49.5			
FH (60°-80°)	9269.4	23.0			G4/12000
FVH (80°-90°)	206.2	0.5			G2/225
BL (0°-30°)	1409.7	3.5	B3/2500		
BM (30°-60°)	3274.8	8.1	B3/5000		
BH (60°-80°)	1914.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	139.5	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°	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7
2.5°	5351.0	5370.8	5305.6	5282.9	5129.9	4923.0	4750.1	4489.4	4248.5	4211.6	3996.2
5°	6796.4	6711.4	6637.7	6589.5	6376.9	6141.7	5776.1	5285.8	4772.8	4710.4	4245.6
7.5°	7655.2	7641.0	7550.3	7522.0	7357.6	7122.3	6745.4	6136.0	5390.6	5288.6	4582.9
10°	8343.9	8335.4	8290.0	8315.5	8165.3	7935.7	7570.1	6940.9	6068.0	5966.0	4959.8
12.5°	8944.7	8958.9	8950.4	9043.9	8967.4	8788.8	8409.1	7717.5	6745.4	6634.9	5419.0
15°	9384.0	9395.4	9437.9	9641.9	9684.4	9647.6	9262.2	8479.9	7414.3	7255.5	5892.3
17.5°	9508.7	9531.4	9633.4	9962.2	10191.8	10344.8	10058.6	9256.5	8071.8	7898.9	6374.1
20°	9675.9	9701.5	9803.5	10146.4	10483.7	10832.3	10781.3	10044.4	8735.0	8593.3	6861.6
22.5°	10449.7	10429.8	10384.5	10548.9	10789.8	11223.4	11351.0	10801.1	9420.9	9284.8	7400.1
25°	11940.5	11903.6	11614.5	11464.3	11385.0	11648.5	11875.3	11489.8	10089.7	9885.7	7901.7
27.5°	13584.3	13564.5	13196.0	12838.9	12351.4	12238.1	12371.3	12090.7	10738.8	10531.9	8338.2
30°	15140.3	15080.8	14695.3	14247.5	13595.6	13108.2	12912.6	12680.2	11450.2	11234.8	8848.4
32.5°	16531.9	16455.3	16001.9	15505.9	14822.8	14247.5	13663.7	13306.6	12255.1	12005.7	9369.9
35°	17674.0	17597.5	17132.7	16605.6	15854.5	15429.4	14630.1	13986.8	13074.1	12821.9	9984.9
37.5°	18558.3	18487.5	18002.8	17484.2	16829.5	16492.2	15797.8	14752.0	14017.9	13754.4	10636.7
40°	19054.3	19003.3	18615.0	18204.0	17654.2	17362.3	17050.5	15718.5	15075.1	14811.5	11404.8
42.5°	19204.5	19170.5	18898.4	18685.9	18314.6	18093.5	18272.1	16855.0	16203.1	15973.5	12269.2
45°	18827.6	18827.6	18748.2	18855.9	18872.9	18870.1	19496.4	18138.9	17589.0	17336.8	13487.9
47.5°	17863.9	17926.3	18042.5	18572.5	19130.8	19598.5	20927.7	19850.7	19371.7	19164.8	15214.0
50°	16101.1	16271.1	16667.9	17702.4	18889.9	20080.3	22282.5	22381.6	22838.0	22472.3	17753.4
52.5°	13519.1	13493.6	14505.4	15979.2	17790.3	20100.1	23027.8	24615.0	25842.2	25590.0	19641.0
55°	10744.4	10701.9	11645.7	13677.8	16103.9	19340.6	23475.6	25638.1	27508.7	27282.0	21338.7
57.5°	8227.7	8173.8	9012.7	10846.5	13723.2	17727.9	23390.6	26856.8	29801.6	29685.4	23645.7
60°	5662.7	5597.5	6382.6	7986.8	10906.0	15262.1	22449.7	27483.2	32485.6	32525.2	26114.3
62.5°	3401.0	3364.2	3933.9	5178.1	7845.1	12206.9	20247.5	27103.4	34622.5	34801.1	27701.4
65°	2052.0	2026.5	2360.9	3089.3	4976.8	8907.9	16852.1	25162.0	34931.5	35342.4	27738.3
67.5°	1493.6	1496.5	1592.8	1881.9	2902.2	5753.4	12646.2	21681.6	33321.6	33746.8	25989.6
70°	1298.1	1303.7	1354.7	1419.9	1754.4	3293.3	8222.0	17115.7	28563.0	28891.8	21797.8
72.5°	1153.5	1153.5	1187.5	1221.5	1371.8	2006.6	4404.3	11963.1	22543.2	22631.1	16636.7
75°	1014.6	1006.1	1023.1	1040.2	1190.4	1402.9	2142.7	8335.4	16650.9	16446.8	10752.9
77.5°	807.7	799.2	802.1	819.1	955.1	1003.3	1085.5	5206.4	9384.0	8856.9	4750.1
80°	575.3	569.7	600.8	643.4	705.7	615.0	680.2	2519.6	3721.3	3463.4	1842.2
82.5°	342.9	354.3	402.5	436.5	487.5	385.5	439.3	841.8	1317.9	1283.9	748.2
85°	48.2	51.0	144.5	167.2	209.7	150.2	232.4	379.8	527.2	564.0	263.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	19.8	68.0	150.2	153.0	65.2
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°	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7
2.5°	3885.7	3752.5	3562.6	3403.9	3270.7	3163.0	3072.3	3004.2	2984.4	2956.1	2956.1
5°	4027.4	3786.5	3446.4	3205.5	3066.6	2984.4	2927.7	2899.4	2885.2	2868.2	2859.7
7.5°	4223.0	3885.7	3426.5	3182.8	3075.1	3024.1	2987.2	2970.2	2958.9	2941.9	2941.9
10°	4492.2	4033.1	3488.9	3262.2	3177.1	3126.1	3083.6	3055.3	3029.8	3004.2	2998.6
12.5°	4784.1	4225.8	3602.3	3369.9	3279.2	3216.8	3157.3	3114.8	3083.6	3052.4	3043.9
15°	5107.2	4424.2	3724.1	3474.7	3361.4	3276.3	3205.5	3140.3	3097.8	3052.4	3046.8
17.5°	5424.7	4625.4	3826.2	3545.6	3401.0	3296.2	3194.1	3109.1	3055.3	3004.2	2990.1
20°	5804.4	4826.6	3897.0	3565.4	3392.5	3253.7	3131.8	3024.1	2964.6	2905.1	2896.5
22.5°	6153.0	5013.7	3931.0	3537.1	3327.3	3163.0	3021.3	2905.1	2839.9	2780.3	2769.0
25°	6490.3	5178.1	3916.9	3469.1	3228.1	3038.3	2890.9	2774.7	2712.3	2650.0	2633.0
27.5°	6816.2	5288.6	3860.2	3364.2	3103.4	2899.4	2757.7	2652.8	2599.0	2545.1	2522.4
30°	7136.5	5390.6	3772.3	3228.1	2944.7	2754.8	2638.6	2564.9	2511.1	2454.4	2437.4
32.5°	7459.6	5464.3	3639.1	3069.4	2783.2	2627.3	2556.4	2502.6	2445.9	2389.2	2372.2
35°	7785.5	5495.5	3477.6	2888.0	2647.1	2545.1	2519.6	2457.2	2380.7	2312.7	2290.0
37.5°	8173.8	5523.8	3276.3	2709.5	2528.1	2505.4	2499.8	2406.2	2315.5	2222.0	2196.5
40°	8641.5	5560.7	3069.4	2547.9	2431.7	2491.3	2468.6	2341.0	2159.7	2069.0	2040.6
42.5°	9214.0	5628.7	2854.0	2400.6	2360.9	2437.4	2411.9	2182.3	2060.5	2009.4	1995.3
45°	10055.7	5878.1	2638.6	2284.4	2307.0	2360.9	2321.2	2088.8	2040.6	2006.6	1989.6
47.5°	11555.0	6260.7	2451.6	2196.5	2264.5	2292.9	2139.8	2063.3	2026.5	1981.1	1961.3
50°	13113.8	6428.0	2301.4	2142.7	2216.3	2230.5	2040.6	2029.3	2003.8	1955.6	1935.8
52.5°	14168.1	6405.3	2210.7	2122.8	2176.7	2122.8	1995.3	1992.4	1975.4	1918.8	1896.1
55°	15358.5	6445.0	2171.0	2128.5	2159.7	1941.4	1938.6	1947.1	1938.6	1876.2	1864.9
57.5°	16965.5	6566.8	2151.2	2148.3	2148.3	1853.6	1884.7	1896.1	1879.1	1850.7	1842.2
60°	18510.1	6575.3	2114.3	2171.0	2139.8	1799.7	1822.4	1833.7	1813.9	1808.2	1805.4
62.5°	19091.1	6167.2	2032.1	2154.0	2105.8	1740.2	1757.2	1762.9	1743.0	1757.2	1754.4
65°	18226.7	5299.9	1896.1	2071.8	2000.9	1686.3	1675.0	1689.2	1655.2	1692.0	1694.8
67.5°	16183.3	4211.6	1689.2	1915.9	1853.6	1626.8	1604.2	1604.2	1547.5	1604.2	1601.3
70°	13048.6	2975.9	1385.9	1666.5	1692.0	1556.0	1544.6	1479.5	1388.8	1473.8	1465.3
72.5°	9891.3	2137.0	1091.2	1317.9	1456.8	1456.8	1459.6	1349.1	1244.2	1283.9	1249.9
75°	6266.4	1505.0	872.9	1009.0	1142.2	1278.2	1343.4	1139.3	1045.8	1028.8	1011.8
77.5°	2822.9	989.1	680.2	773.7	810.6	1009.0	1227.2	980.6	853.1	816.2	804.9
80°	1181.9	615.0	484.6	547.0	498.8	847.4	1082.7	762.4	626.4	575.3	538.5
82.5°	518.7	365.6	308.9	294.8	311.8	629.2	807.7	507.3	391.1	530.0	535.7
85°	218.2	192.7	158.7	144.5	127.5	240.9	379.8	198.4	243.7	138.9	113.4
87.5°	51.0	56.7	42.5	28.3	17.0	2.8	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)