

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: P636307

Luminaire Tested: GWS-SA3F-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24241.1 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

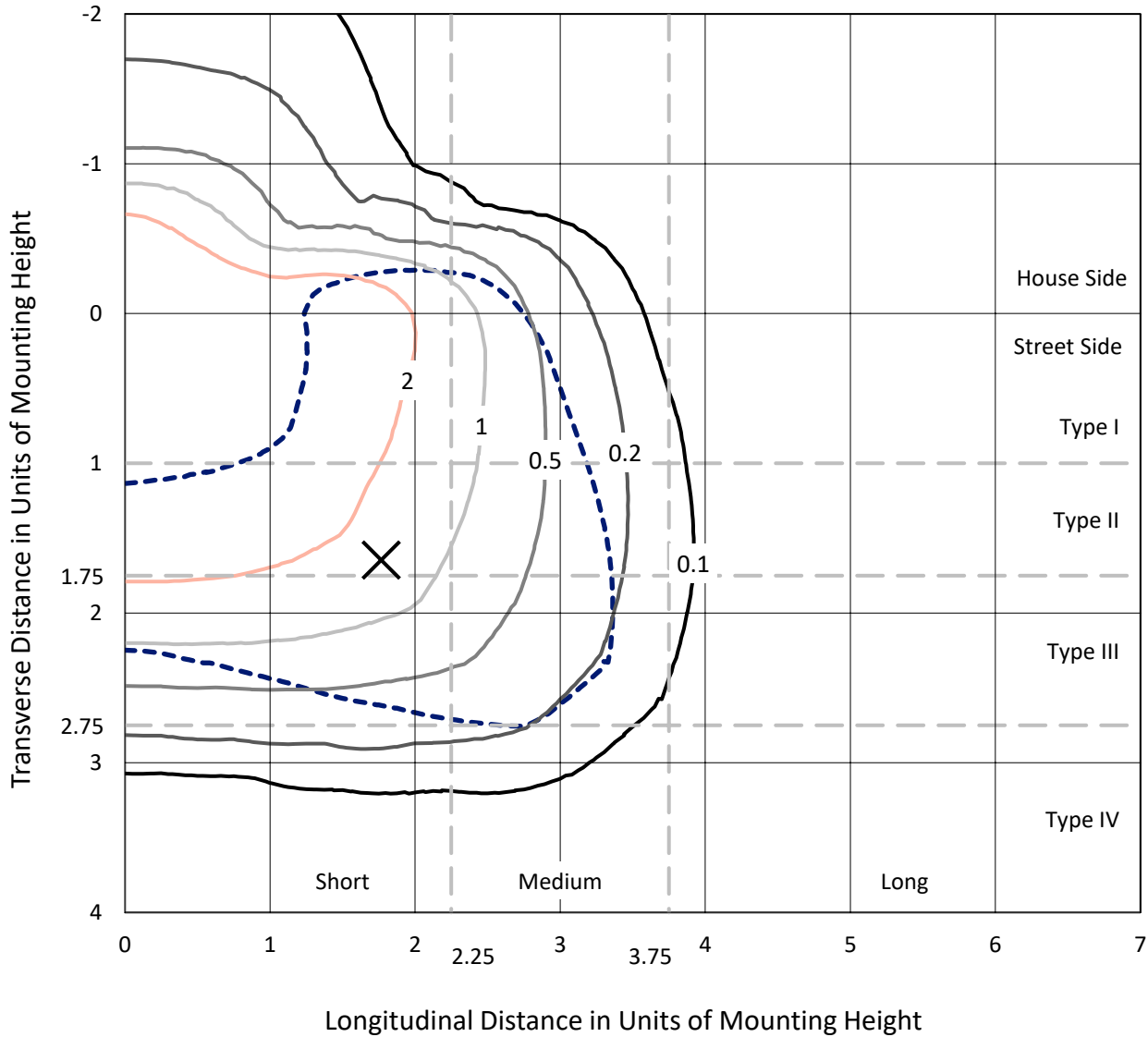
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

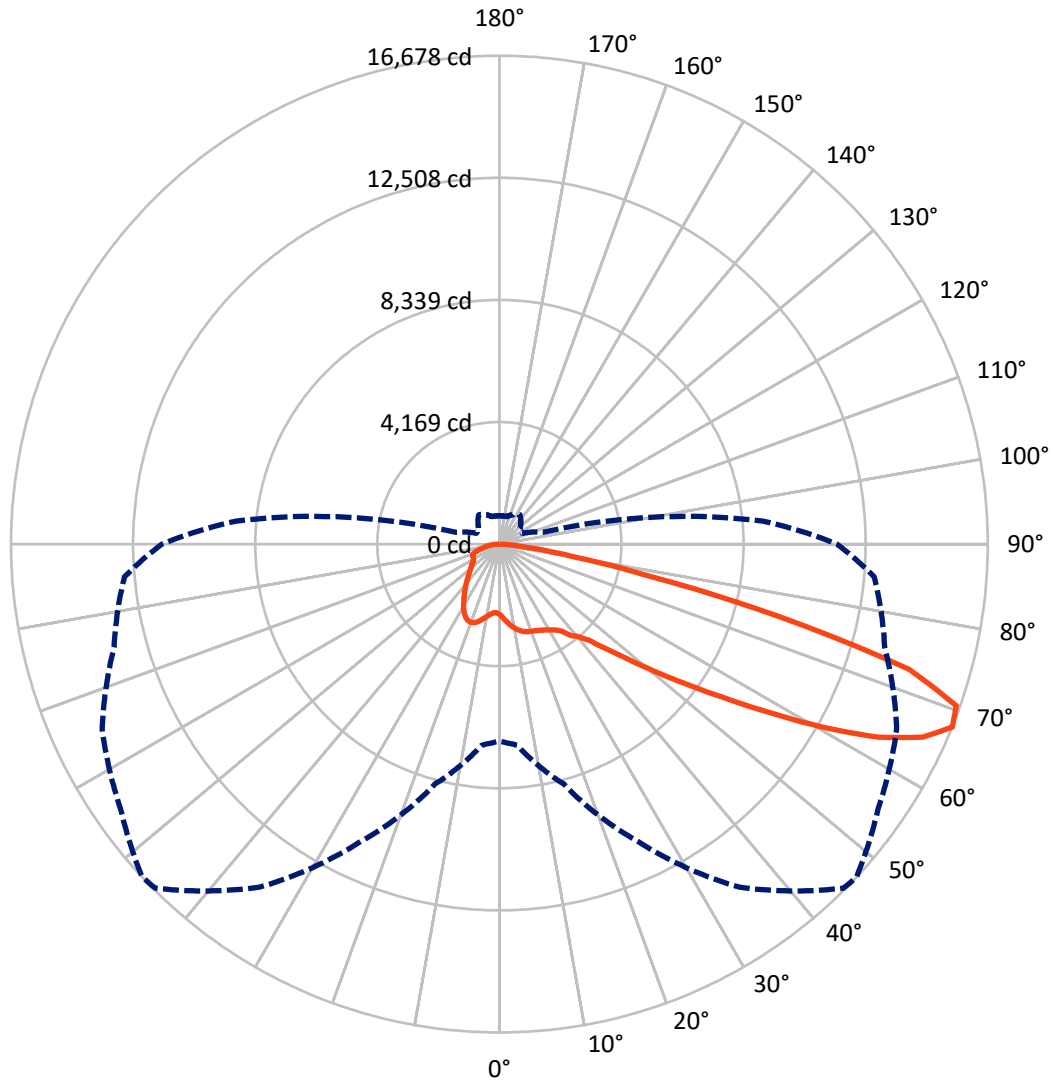
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5524.7	0.0	5524.7
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	18716.4	0.0	18716.4
	% Fixture	77.2	0.0	77.2
Total	Lumens	24241.1	0.0	24241.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	1.0
10°-20°	818.2	3.4
20°-30°	1390.8	5.7
30°-40°	2037.3	8.4
40°-50°	3104.1	12.8
50°-60°	5554.0	22.9
60°-70°	7411.2	30.6
70°-80°	3351.5	13.8
80°-90°	328.4	1.4
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°	24241.1	100.0
0°-180°	24241.1	100.0

Coefficient of Utilization



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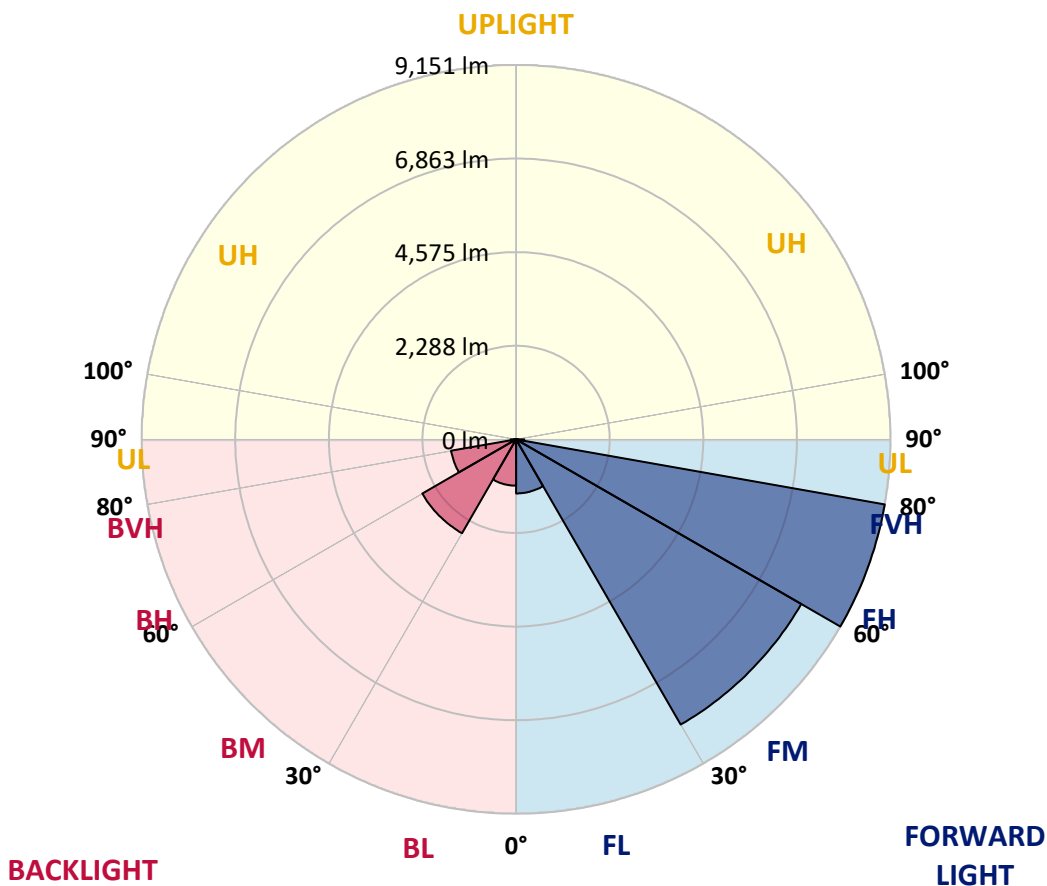
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1322.0	5.5			
FM (30°-60°)	8048.3	33.2			
FH (60°-80°)	9150.7	37.7			G4/12000
FVH (80°-90°)	195.3	0.8			G2/225
BL (0°-30°)	1132.6	4.7	B3/2500		
BM (30°-60°)	2647.2	10.9	B3/5000		
BH (60°-80°)	1611.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	133.0	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2403.1	2403.1	2403.1	2403.1	2403.1	2403.1	2403.1	2403.1	2403.1	2403.1	2403.1
2.5°	2562.6	2571.3	2569.6	2555.6	2546.8	2531.0	2532.8	2508.2	2471.4	2446.9	2418.8
5°	2788.7	2802.7	2785.2	2762.4	2727.3	2676.5	2671.2	2615.1	2545.0	2496.0	2445.1
7.5°	2985.0	2993.7	2972.7	2934.2	2883.3	2815.0	2802.7	2736.1	2648.4	2571.3	2497.7
10°	3137.5	3148.0	3119.9	3069.1	3002.5	2934.2	2925.4	2857.0	2764.1	2673.0	2580.1
12.5°	3267.2	3270.7	3240.9	3172.5	3100.7	3030.6	3021.8	2958.7	2872.8	2779.9	2678.2
15°	3342.5	3344.3	3307.5	3232.1	3163.8	3102.4	3097.2	3042.8	2963.9	2876.3	2767.6
17.5°	3337.3	3340.8	3314.5	3247.9	3188.3	3151.5	3146.2	3111.2	3049.8	2971.0	2862.3
20°	3272.4	3275.9	3258.4	3214.6	3183.0	3172.5	3174.3	3163.8	3127.0	3062.1	2951.7
22.5°	3221.6	3226.9	3211.1	3179.5	3176.0	3200.6	3205.8	3211.1	3193.6	3135.7	3028.8
25°	3246.1	3254.9	3230.4	3186.6	3193.6	3247.9	3258.4	3275.9	3261.9	3212.8	3119.9
27.5°	3416.2	3421.4	3358.3	3268.9	3247.9	3305.7	3321.5	3349.6	3339.0	3293.5	3221.6
30°	3810.5	3807.0	3672.1	3453.0	3365.3	3388.1	3400.4	3440.7	3444.2	3414.4	3346.1
32.5°	4366.2	4348.6	4140.1	3791.3	3537.1	3481.0	3495.0	3549.4	3589.7	3558.1	3465.2
35°	4953.4	4937.6	4708.0	4299.6	3854.4	3659.8	3644.0	3686.1	3747.4	3659.8	3526.6
37.5°	5512.5	5488.0	5253.1	4748.3	4245.2	3973.6	3950.8	3908.7	3871.9	3703.6	3602.0
40°	6133.0	6104.9	5899.9	5328.4	4676.4	4213.7	4155.8	3989.3	3956.0	3849.1	3798.3
42.5°	6795.5	6795.5	6625.5	6062.9	5197.0	4557.2	4481.9	4231.2	4266.3	4196.2	4136.6
45°	7458.1	7477.4	7342.4	6802.5	5892.8	5205.8	5084.8	4729.0	4813.1	4781.6	4751.8
47.5°	8022.5	8059.3	8033.0	7558.0	6744.7	5994.5	5810.5	5440.6	5621.2	5696.5	5780.7
50°	8630.7	8671.0	8644.7	8457.2	7742.0	6949.8	6785.0	6402.9	6713.1	6939.3	7214.4
52.5°	9533.4	9591.2	9372.1	9300.2	8953.2	8034.7	7887.5	7452.8	8015.5	8390.6	9004.0
55°	10295.8	10294.1	10216.9	10381.7	10253.8	9361.6	9198.6	8804.2	9522.8	9920.7	10818.2
57.5°	10649.9	10692.0	10956.6	11422.9	11678.8	10982.9	10826.9	10423.8	11140.7	11347.5	12316.8
60°	10832.2	10884.8	11396.6	12318.5	13007.4	12753.2	12691.9	12178.3	12581.4	12556.9	13580.5
62.5°	10576.3	10681.4	11503.5	12728.7	13955.6	14532.3	14513.0	13736.5	13806.6	13566.5	14364.0
65°	9401.9	9515.8	10805.9	12523.6	14497.2	15885.4	15890.7	15147.5	14747.9	14057.3	14232.6
67.5°	6723.7	6886.7	8481.7	11205.5	14306.2	16616.3	16677.7	15787.3	14968.7	13622.6	12851.4
70°	3665.1	3784.3	5034.0	8145.2	12585.0	16441.1	16555.0	15478.8	13994.2	11783.9	9892.7
72.5°	1665.1	1703.7	2341.7	4469.6	8597.4	14151.9	14628.7	13813.7	11493.0	8704.3	6290.7
75°	762.5	780.0	1020.1	2138.4	4492.4	9470.3	9805.0	10288.8	7997.9	5496.7	3279.4
77.5°	478.5	483.8	580.2	978.1	2240.1	4727.2	5079.6	6126.0	4683.4	2720.3	1370.7
80°	282.2	287.5	361.1	529.3	1051.7	2162.9	2497.7	2422.3	2201.5	1174.4	624.0
82.5°	142.0	147.2	208.6	301.5	573.2	860.6	1013.1	1018.4	820.3	636.3	352.3
85°	50.8	52.6	68.4	119.2	243.6	284.0	317.3	387.4	401.4	369.8	170.0
87.5°	0.0	0.0	1.8	3.5	7.0	28.0	29.8	56.1	117.4	131.5	68.4
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°	2403.1	2403.1	2403.1	2403.1	2403.1	2403.1	2403.1	2403.1	2403.1	2403.1	2403.1
2.5°	2410.1	2383.8	2375.0	2366.3	2352.2	2347.0	2336.5	2325.9	2325.9	2315.4	2310.2
5°	2422.3	2387.3	2364.5	2354.0	2345.2	2350.5	2350.5	2354.0	2366.3	2359.2	2362.7
7.5°	2466.2	2425.8	2394.3	2385.5	2385.5	2406.6	2420.6	2438.1	2460.9	2464.4	2464.4
10°	2543.3	2496.0	2462.7	2457.4	2466.2	2496.0	2517.0	2538.0	2566.1	2567.8	2571.3
12.5°	2627.4	2580.1	2546.8	2553.8	2562.6	2601.1	2623.9	2641.4	2669.5	2669.5	2667.7
15°	2715.1	2662.5	2634.4	2648.4	2674.7	2718.6	2722.1	2723.8	2737.8	2734.3	2732.6
17.5°	2806.2	2750.1	2729.1	2750.1	2778.2	2799.2	2781.7	2757.1	2751.9	2744.9	2741.3
20°	2895.6	2837.7	2829.0	2844.8	2853.5	2836.0	2781.7	2736.1	2715.1	2704.5	2701.0
22.5°	2972.7	2923.6	2918.4	2918.4	2874.6	2813.2	2732.6	2671.2	2643.2	2629.2	2625.7
25°	3063.9	3018.3	3009.5	2962.2	2850.0	2737.8	2629.2	2573.1	2550.3	2543.3	2545.0
27.5°	3170.8	3139.2	3111.2	2976.2	2779.9	2604.6	2481.9	2457.4	2448.6	2457.4	2462.7
30°	3302.2	3270.7	3207.6	2958.7	2667.7	2431.1	2313.7	2311.9	2338.2	2361.0	2364.5
32.5°	3409.2	3395.1	3291.7	2902.6	2510.0	2240.1	2140.1	2147.2	2194.5	2226.0	2231.3
35°	3493.3	3516.1	3361.8	2809.7	2322.4	2059.5	1980.6	1984.1	2010.4	2054.3	2056.0
37.5°	3612.5	3689.6	3424.9	2667.7	2106.8	1903.5	1831.7	1805.4	1801.9	1814.1	1817.6
40°	3852.6	3968.3	3470.5	2460.9	1898.3	1763.3	1682.7	1631.8	1588.0	1554.7	1544.2
42.5°	4215.4	4348.6	3496.8	2210.3	1712.5	1624.8	1533.7	1468.8	1391.7	1321.6	1297.1
45°	4881.5	4925.3	3496.8	1943.8	1547.7	1495.1	1404.0	1326.9	1228.7	1146.3	1128.8
47.5°	5947.2	5807.0	3500.3	1686.2	1402.2	1381.2	1302.3	1214.7	1106.0	1037.6	1027.1
50°	7552.7	7060.2	3572.2	1472.3	1281.3	1284.8	1226.9	1130.5	1032.4	981.6	972.8
52.5°	9372.1	8604.4	3765.0	1314.6	1179.6	1205.9	1174.4	1081.5	993.8	950.0	941.2
55°	11082.8	10024.1	3929.7	1202.4	1093.7	1139.3	1137.6	1051.7	972.8	929.0	923.7
57.5°	12537.6	10996.9	3905.2	1111.3	1020.1	1078.0	1104.3	1032.4	958.8	922.0	916.7
60°	13442.1	11512.3	3556.4	1027.1	964.0	1034.1	1085.0	1027.1	965.8	957.0	958.8
62.5°	13834.7	11417.6	2886.8	964.0	927.2	1013.1	1106.0	1063.9	1030.6	1051.7	1063.9
65°	13224.7	10604.3	2124.4	916.7	892.2	1018.4	1155.1	1121.8	1030.6	1044.7	1049.9
67.5°	11531.5	9026.8	1535.4	869.4	848.3	1034.1	1225.2	1113.0	971.0	971.0	960.5
70°	8309.9	6492.3	1114.8	822.1	804.5	1011.4	1228.7	1053.4	902.7	897.4	871.1
72.5°	5000.7	3829.8	869.4	769.5	737.9	897.4	1151.6	983.3	836.1	792.3	760.7
75°	2597.6	1919.3	729.2	711.6	632.8	760.7	1053.4	874.6	715.1	676.6	659.0
77.5°	1113.0	897.4	625.7	634.5	525.8	639.8	850.1	757.2	634.5	585.4	569.7
80°	548.6	510.1	494.3	508.3	420.7	494.3	732.7	662.6	538.1	482.0	459.2
82.5°	313.7	298.0	355.8	361.1	299.7	413.7	618.7	560.9	445.2	383.9	347.1
85°	145.5	156.0	215.6	217.3	185.8	284.0	404.9	315.5	236.6	196.3	187.5
87.5°	57.8	68.4	94.7	92.9	54.3	52.6	35.1	19.3	15.8	14.0	12.3
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)