

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: P639717

Luminaire Tested: GWS-SA5C-735-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639717
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-SA5C-735-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23284.9 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

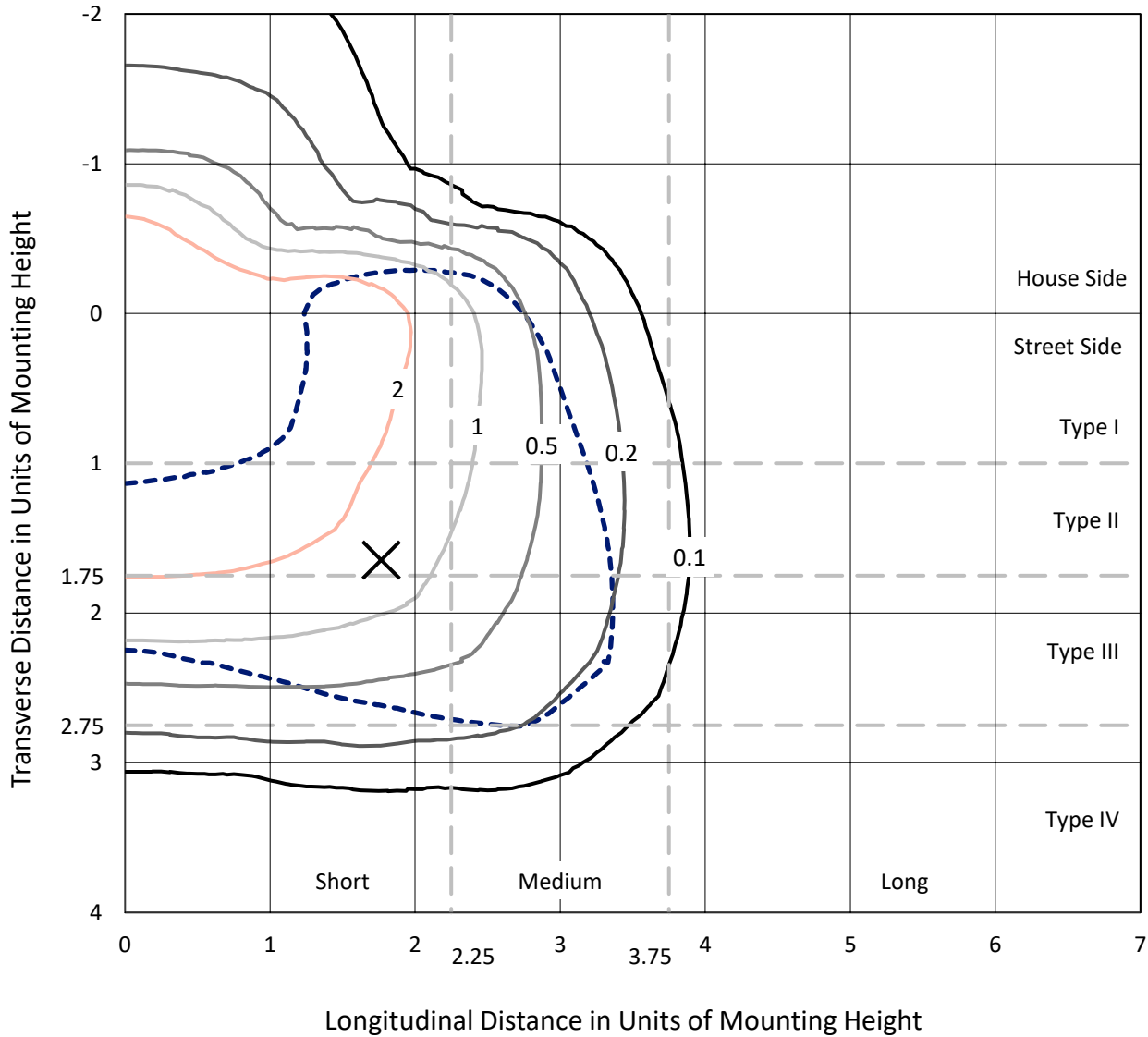
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639717
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Iso-Footcandle Lines of Horizontal Illumination

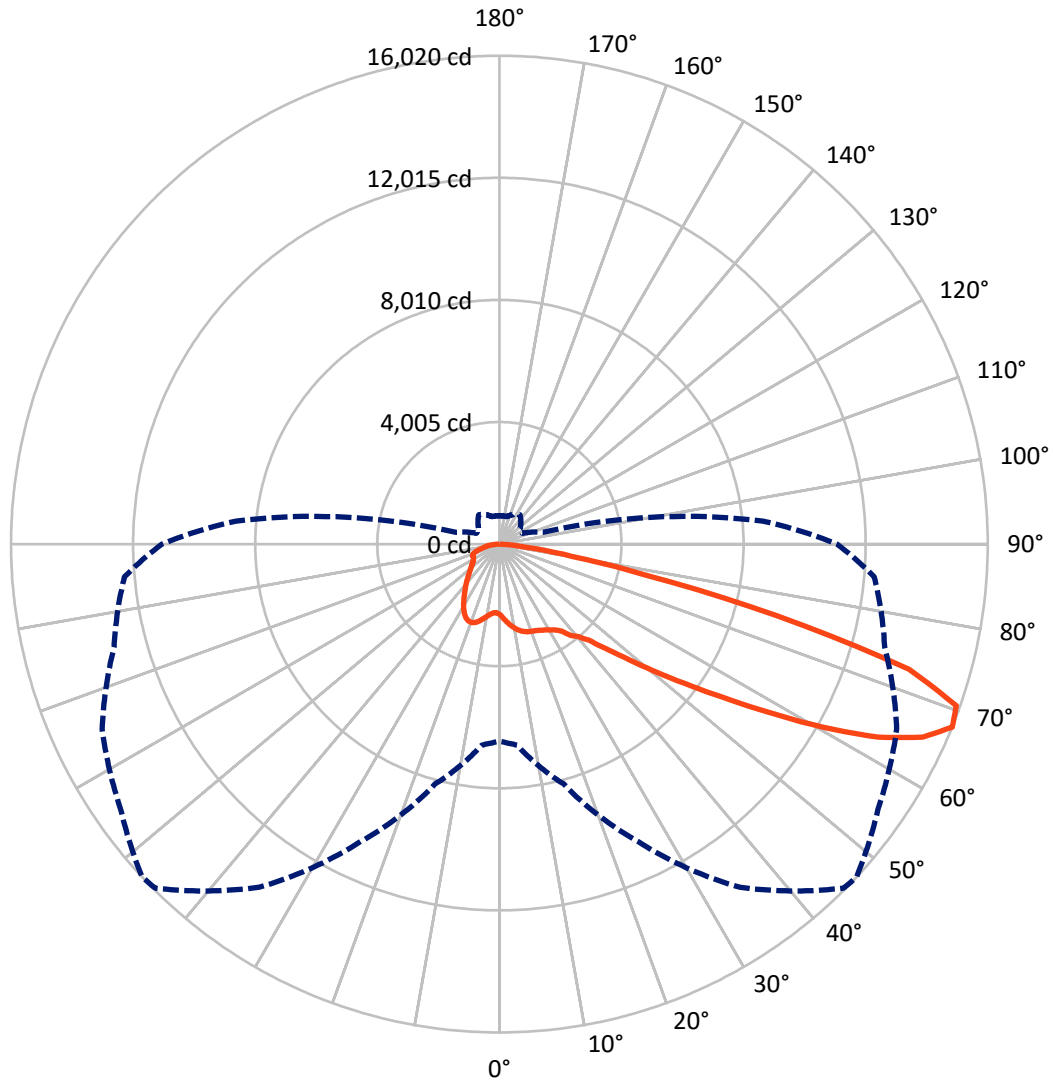
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

REPORT NUMBER: P639717
CATALOG NUMBER: GWS-SA5C-735-U-T4W-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P639717

CATALOG NUMBER: GWS-SA5C-735-U-T4W-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5306.8	0.0	5306.8
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	17978.1	0.0	17978.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	23284.9	0.0	23284.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.9	1.0
10°-20°	786.0	3.4
20°-30°	1335.9	5.7
30°-40°	1957.0	8.4
40°-50°	2981.7	12.8
50°-60°	5334.9	22.9
60°-70°	7118.8	30.6
70°-80°	3219.3	13.8
80°-90°	315.4	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°	23284.9	100.0
0°-180°	23284.9	100.0

Coefficient of Utilization



REPORT NUMBER: P639717

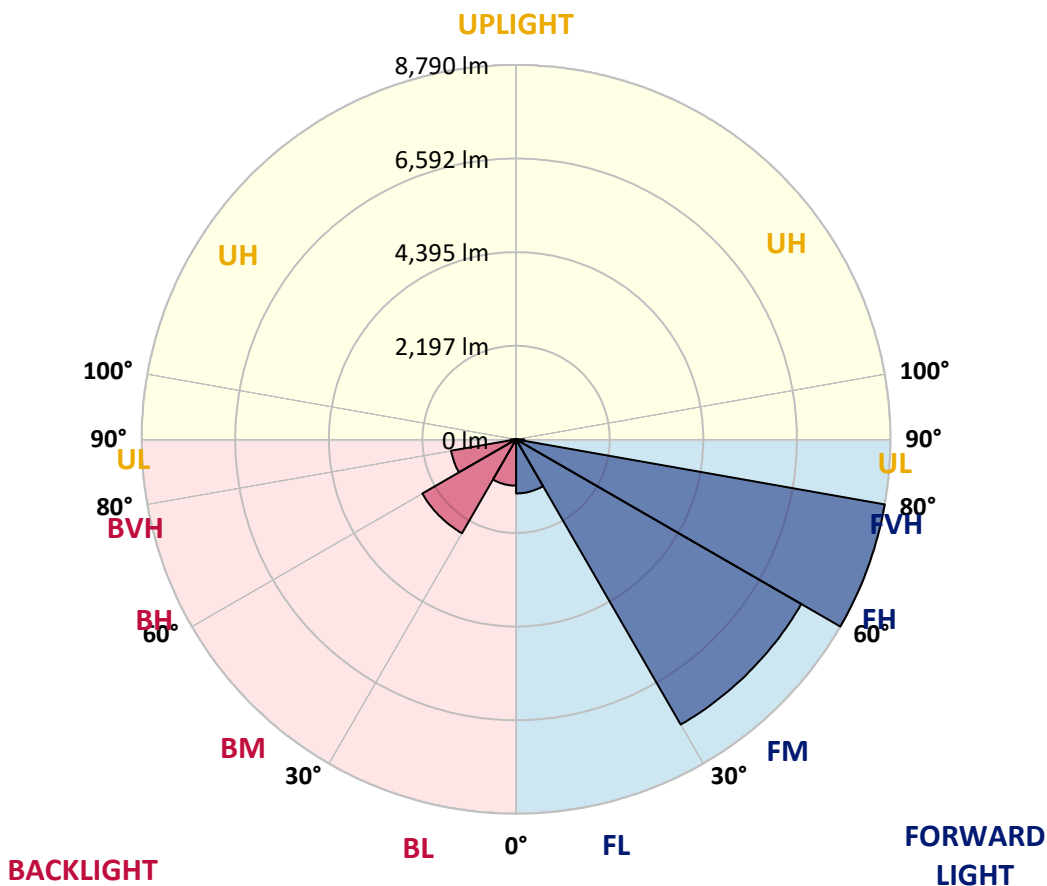
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1269.9	5.5			
FM (30°-60°)	7730.8	33.2			
FH (60°-80°)	8789.8	37.7			G4/12000
FVH (80°-90°)	187.6	0.8			G2/225
BL (0°-30°)	1087.9	4.7	B3/2500		
BM (30°-60°)	2542.7	10.9	B3/5000		
BH (60°-80°)	1548.4	6.6	B3/2500		G3/2500
BVH (80°-90°)	127.8	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





REPORT NUMBER: P639717
 CATALOG NUMBER: GWS-SA5C-735-U-T4W-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3
2.5°	2461.5	2469.9	2468.2	2454.7	2446.3	2431.2	2432.9	2409.3	2373.9	2350.4	2323.4
5°	2678.7	2692.1	2675.3	2653.4	2619.7	2570.9	2565.9	2512.0	2444.6	2397.5	2348.7
7.5°	2867.2	2875.7	2855.5	2818.4	2769.6	2703.9	2692.1	2628.2	2544.0	2469.9	2399.2
10°	3013.7	3023.8	2996.9	2948.1	2884.1	2818.4	2810.0	2744.3	2655.1	2567.6	2478.3
12.5°	3138.3	3141.7	3113.1	3047.4	2978.4	2911.0	2902.6	2842.0	2759.5	2670.3	2572.6
15°	3210.7	3212.4	3177.0	3104.6	3039.0	2980.0	2975.0	2922.8	2847.0	2762.9	2658.5
17.5°	3205.7	3209.0	3183.8	3119.8	3062.5	3027.2	3022.1	2988.5	2929.5	2853.8	2749.4
20°	3143.4	3146.7	3129.9	3087.8	3057.5	3047.4	3049.1	3039.0	3003.6	2941.3	2835.2
22.5°	3094.5	3099.6	3084.4	3054.1	3050.8	3074.3	3079.4	3084.4	3067.6	3012.0	2909.3
25°	3118.1	3126.5	3102.9	3060.9	3067.6	3119.8	3129.9	3146.7	3133.3	3086.1	2996.9
27.5°	3281.4	3286.5	3225.9	3140.0	3119.8	3175.3	3190.5	3217.4	3207.3	3163.6	3094.5
30°	3660.2	3656.9	3527.2	3316.8	3232.6	3254.5	3266.3	3305.0	3308.4	3279.7	3214.1
32.5°	4193.9	4177.1	3976.8	3641.7	3397.6	3343.7	3357.2	3409.4	3448.1	3417.8	3328.6
35°	4758.0	4742.8	4522.3	4130.0	3702.3	3515.4	3500.3	3540.7	3599.6	3515.4	3387.5
37.5°	5295.0	5271.5	5045.9	4561.0	4077.8	3816.8	3794.9	3754.5	3719.2	3557.5	3459.9
40°	5891.1	5864.1	5667.1	5118.3	4492.0	4047.5	3991.9	3832.0	3800.0	3697.3	3648.4
42.5°	6527.5	6527.5	6364.2	5823.7	4992.0	4377.5	4305.1	4064.3	4098.0	4030.6	3973.4
45°	7163.9	7182.4	7052.8	6534.2	5660.4	5000.4	4884.2	4542.5	4623.3	4593.0	4564.3
47.5°	7706.0	7741.4	7716.1	7259.9	6478.6	5758.0	5581.3	5226.0	5399.4	5471.8	5552.6
50°	8290.2	8329.0	8303.7	8123.6	7436.6	6675.6	6517.4	6150.3	6448.3	6665.5	6929.9
52.5°	9157.3	9212.9	9002.4	8933.4	8600.0	7717.8	7576.4	7158.8	7699.3	8059.6	8648.9
55°	9889.7	9888.0	9813.9	9972.2	9849.3	8992.3	8835.7	8456.9	9147.2	9529.4	10391.4
57.5°	10229.8	10270.2	10524.4	10972.3	11218.1	10549.7	10399.8	10012.6	10701.2	10899.9	11830.9
60°	10404.9	10455.4	10947.0	11832.6	12494.3	12250.2	12191.2	11697.9	12085.2	12061.6	13044.8
62.5°	10159.1	10260.1	11049.7	12226.6	13405.1	13959.1	13940.5	13194.7	13262.0	13031.4	13797.4
65°	9031.0	9140.5	10379.6	12029.6	13925.4	15258.8	15263.9	14550.0	14166.1	13502.8	13671.2
67.5°	6458.4	6615.0	8147.1	10763.5	13741.9	15960.9	16019.8	15164.5	14378.3	13085.3	12344.4
70°	3520.5	3635.0	4835.4	7823.9	12088.5	15792.5	15902.0	14868.2	13442.2	11319.1	9502.5
72.5°	1599.5	1636.5	2249.3	4293.3	8258.3	13593.7	14051.7	13268.8	11039.6	8361.0	6042.6
75°	732.4	749.2	979.9	2054.0	4315.2	9096.7	9418.3	9883.0	7682.4	5279.9	3150.1
77.5°	459.6	464.7	557.3	939.5	2151.7	4540.8	4879.2	5884.3	4498.7	2613.0	1316.6
80°	271.1	276.1	346.8	508.5	1010.2	2077.6	2399.2	2326.8	2114.7	1128.0	599.4
82.5°	136.4	141.4	200.4	289.6	550.6	826.7	973.1	978.2	787.9	611.2	338.4
85°	48.8	50.5	65.7	114.5	234.0	272.7	304.7	372.1	385.6	355.2	163.3
87.5°	0.0	0.0	1.7	3.4	6.7	26.9	28.6	53.9	112.8	126.3	65.7
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: P639717
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3
2.5°	2315.0	2289.8	2281.3	2272.9	2259.4	2254.4	2244.3	2234.2	2234.2	2224.1	2219.0
5°	2326.8	2293.1	2271.2	2261.1	2252.7	2257.8	2257.8	2261.1	2272.9	2266.2	2269.5
7.5°	2368.9	2330.2	2299.9	2291.4	2291.4	2311.6	2325.1	2341.9	2363.8	2367.2	2367.2
10°	2443.0	2397.5	2365.5	2360.5	2368.9	2397.5	2417.7	2437.9	2464.8	2466.5	2469.9
12.5°	2523.8	2478.3	2446.3	2453.1	2461.5	2498.5	2520.4	2537.2	2564.2	2564.2	2562.5
15°	2608.0	2557.4	2530.5	2544.0	2569.2	2611.3	2614.7	2616.4	2629.8	2626.5	2624.8
17.5°	2695.5	2641.6	2621.4	2641.6	2668.6	2688.8	2671.9	2648.4	2643.3	2636.6	2633.2
20°	2781.4	2725.8	2717.4	2732.5	2741.0	2724.1	2671.9	2628.2	2608.0	2597.9	2594.5
22.5°	2855.5	2808.3	2803.3	2803.3	2761.2	2702.2	2624.8	2565.9	2538.9	2525.5	2522.1
25°	2943.0	2899.2	2890.8	2845.4	2737.6	2629.8	2525.5	2471.6	2449.7	2443.0	2444.6
27.5°	3045.7	3015.4	2988.5	2858.8	2670.3	2501.9	2384.0	2360.5	2352.0	2360.5	2365.5
30°	3172.0	3141.7	3081.1	2842.0	2562.5	2335.2	2222.4	2220.7	2246.0	2267.9	2271.2
32.5°	3274.7	3261.2	3161.9	2788.1	2411.0	2151.7	2055.7	2062.5	2107.9	2138.2	2143.3
35°	3355.5	3377.4	3229.2	2698.9	2230.8	1978.3	1902.5	1905.9	1931.1	1973.2	1974.9
37.5°	3470.0	3544.1	3289.8	2562.5	2023.7	1828.4	1759.4	1734.1	1730.8	1742.6	1745.9
40°	3700.6	3811.8	3333.6	2363.8	1823.4	1693.7	1616.3	1567.5	1525.4	1493.4	1483.3
42.5°	4049.2	4177.1	3358.9	2123.1	1644.9	1560.7	1473.2	1410.9	1336.8	1269.5	1245.9
45°	4688.9	4731.0	3358.9	1867.2	1486.7	1436.1	1348.6	1274.5	1180.2	1101.1	1084.3
47.5°	5712.6	5577.9	3362.2	1619.7	1346.9	1326.7	1250.9	1166.8	1062.4	996.7	986.6
50°	7254.8	6781.7	3431.3	1414.3	1230.7	1234.1	1178.5	1085.9	991.7	942.8	934.4
52.5°	9002.4	8265.0	3616.5	1262.7	1133.1	1158.3	1128.0	1038.8	954.6	912.5	904.1
55°	10645.7	9628.7	3774.7	1155.0	1050.6	1094.4	1092.7	1010.2	934.4	892.3	887.3
57.5°	12043.1	10563.2	3751.1	1067.4	979.9	1035.4	1060.7	991.7	921.0	885.6	880.5
60°	12911.8	11058.1	3416.1	986.6	926.0	993.3	1042.2	986.6	927.7	919.3	921.0
62.5°	13289.0	10967.2	2773.0	926.0	890.6	973.1	1062.4	1022.0	990.0	1010.2	1022.0
65°	12703.1	10186.0	2040.6	880.5	857.0	978.2	1109.5	1077.5	990.0	1003.4	1008.5
67.5°	11076.7	8670.7	1474.9	835.1	814.9	993.3	1176.9	1069.1	932.7	932.7	922.6
70°	7982.1	6236.2	1070.8	789.6	772.8	971.5	1180.2	1011.9	867.1	862.0	836.8
72.5°	4803.4	3678.8	835.1	739.1	708.8	862.0	1106.2	944.5	803.1	761.0	730.7
75°	2495.2	1843.6	700.4	683.6	607.8	730.7	1011.9	840.1	686.9	649.9	633.0
77.5°	1069.1	862.0	601.1	609.5	505.1	614.5	816.6	727.3	609.5	562.3	547.2
80°	527.0	489.9	474.8	488.3	404.1	474.8	703.8	636.4	516.9	463.0	441.1
82.5°	301.4	286.2	341.8	346.8	287.9	397.3	594.3	538.8	427.6	368.7	333.4
85°	139.7	149.8	207.1	208.8	178.5	272.7	388.9	303.1	227.3	188.6	180.1
87.5°	55.6	65.7	90.9	89.2	52.2	50.5	33.7	18.5	15.2	13.5	11.8
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)