

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: P637847

Luminaire Tested: GWS-SA4D-750-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637847
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-SA4D-750-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24835.5 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

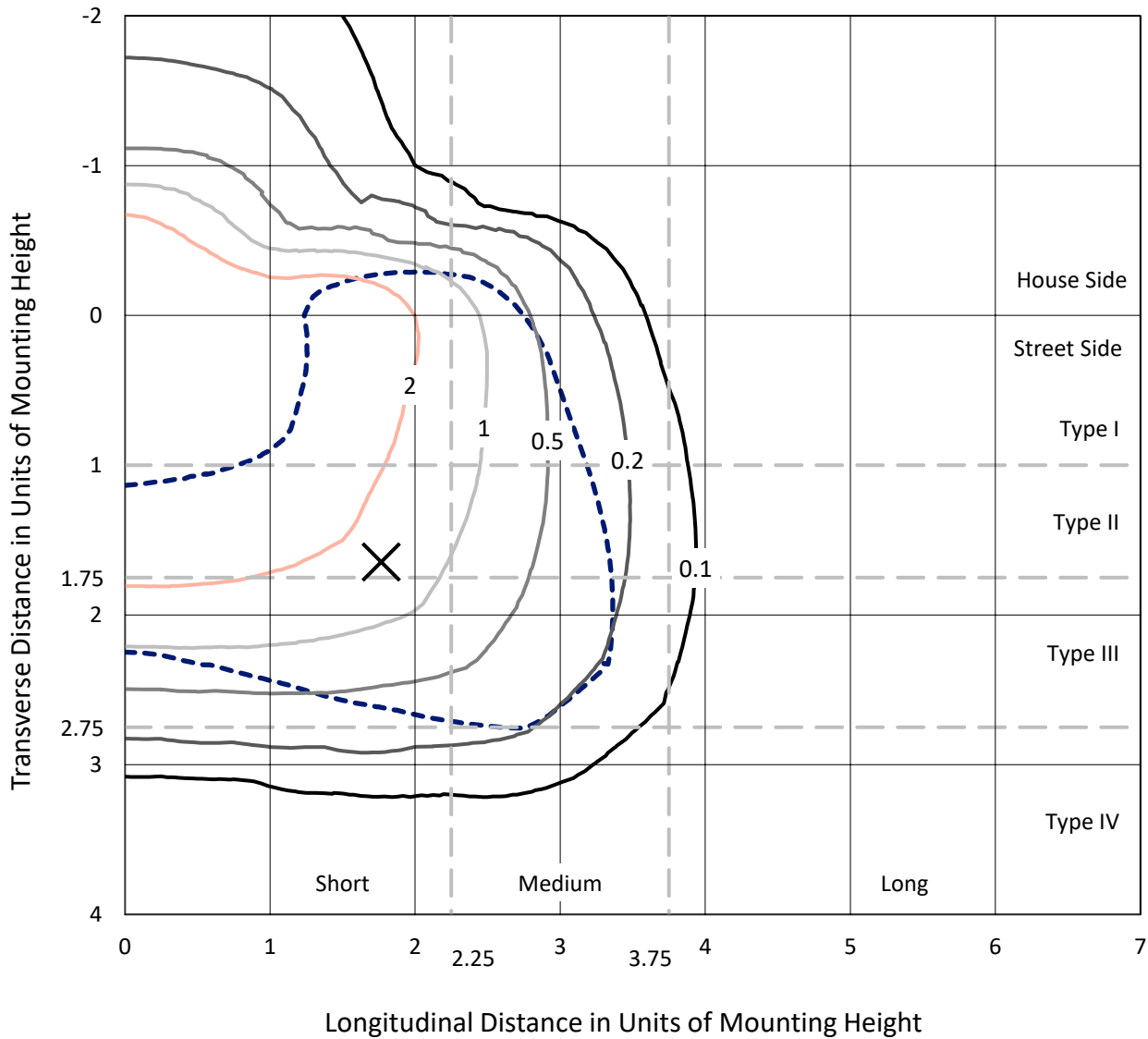
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

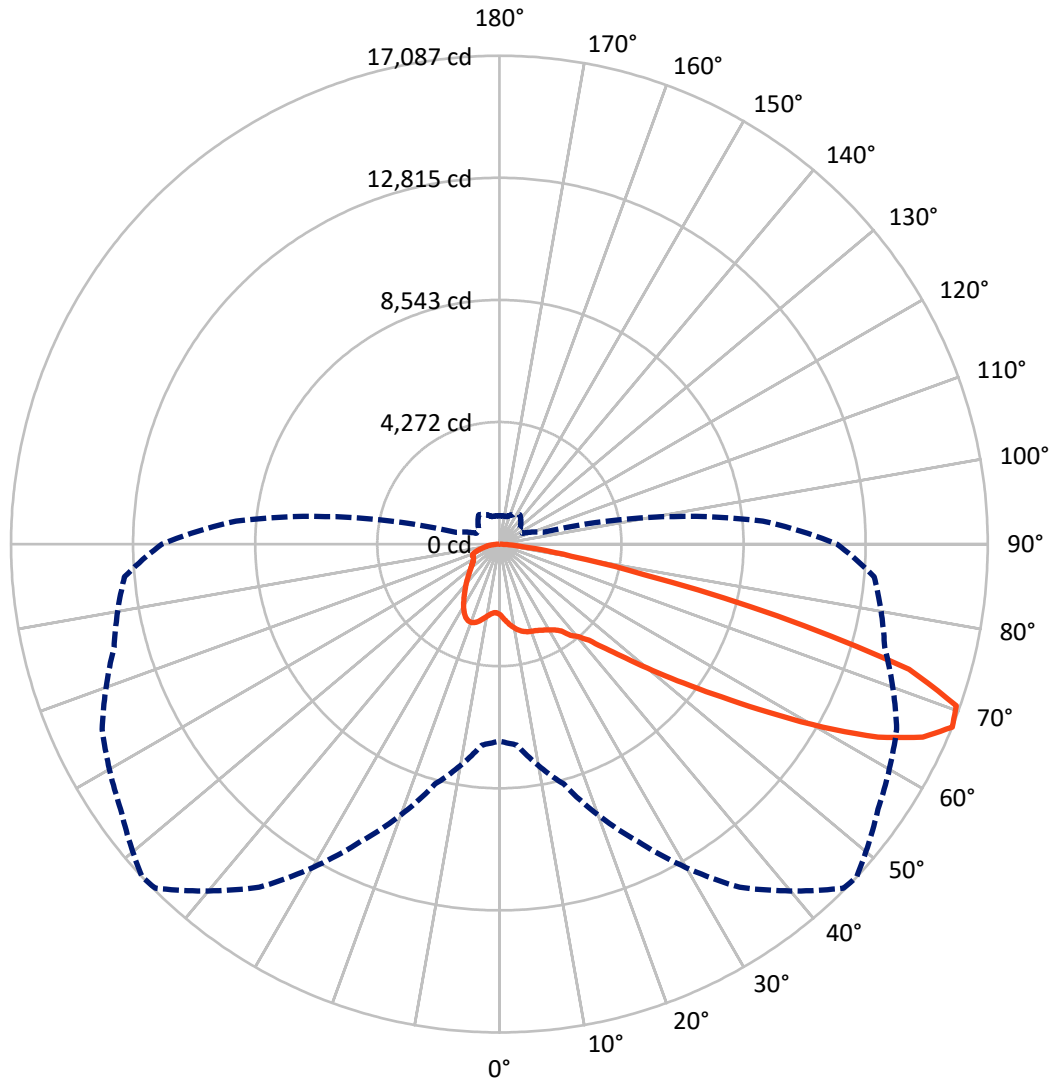
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	5660.2	0.0	5660.2
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	19175.3	0.0	19175.3
	% Fixture	77.2	0.0	77.2
Total	Lumens	24835.5	0.0	24835.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.6	1.0
10°-20°	838.3	3.4
20°-30°	1424.9	5.7
30°-40°	2087.3	8.4
40°-50°	3180.3	12.8
50°-60°	5690.2	22.9
60°-70°	7592.9	30.6
70°-80°	3433.7	13.8
80°-90°	336.4	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°	24835.5	100.0
0°-180°	24835.5	100.0

Coefficient of Utilization



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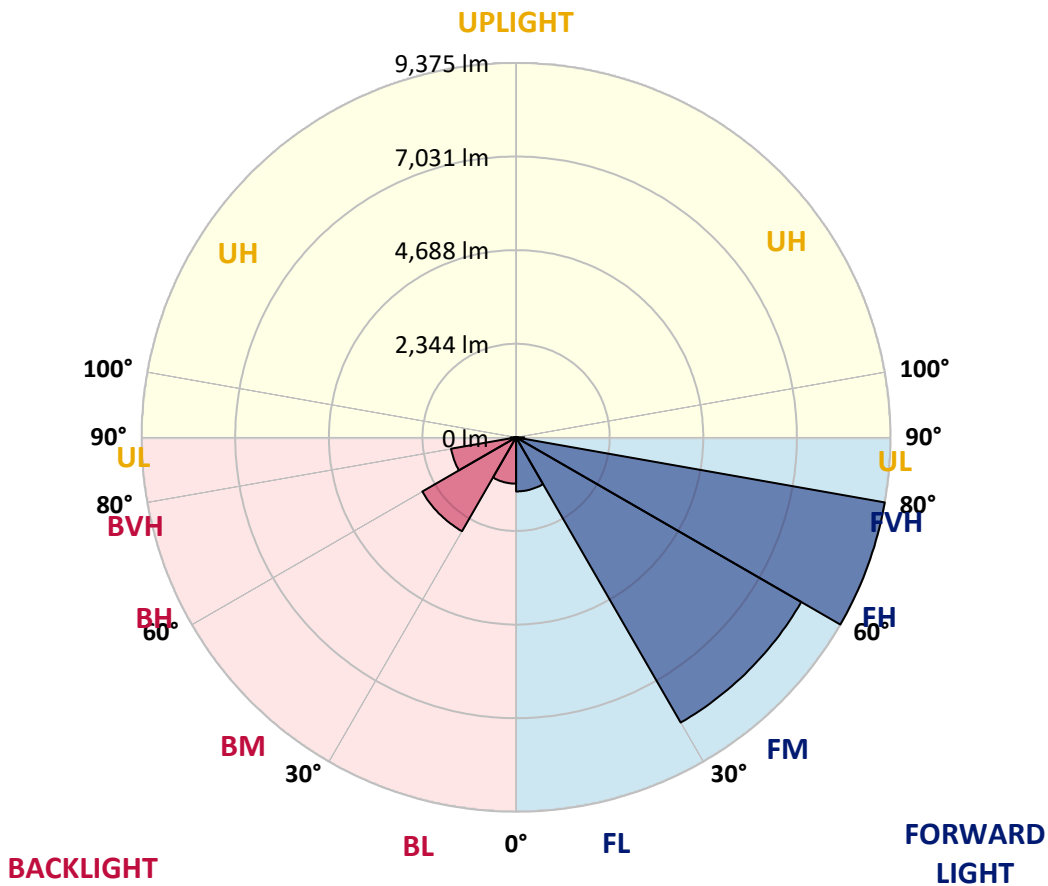
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1354.4	5.5			
FM (30°-60°)	8245.6	33.2			
FH (60°-80°)	9375.1	37.7			G4/12000
FVH (80°-90°)	200.1	0.8			G2/225
BL (0°-30°)	1160.4	4.7	B3/2500		
BM (30°-60°)	2712.1	10.9	B3/5000		
BH (60°-80°)	1651.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	136.3	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°	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0
2.5°	2625.4	2634.4	2632.6	2618.2	2609.2	2593.1	2594.9	2569.7	2532.0	2506.9	2478.1
5°	2857.1	2871.4	2853.5	2830.1	2794.2	2742.1	2736.7	2679.3	2607.4	2557.2	2505.1
7.5°	3058.2	3067.2	3045.6	3006.1	2954.0	2884.0	2871.4	2803.2	2713.4	2634.4	2559.0
10°	3214.4	3225.2	3196.4	3144.4	3076.1	3006.1	2997.1	2927.1	2831.9	2738.5	2643.4
12.5°	3347.3	3350.9	3320.4	3250.3	3176.7	3104.9	3095.9	3031.2	2943.2	2848.1	2743.9
15°	3424.5	3426.3	3388.6	3311.4	3241.3	3178.5	3173.1	3117.4	3036.6	2946.8	2835.5
17.5°	3419.1	3422.7	3395.8	3327.5	3266.5	3228.8	3223.4	3187.5	3124.6	3043.8	2932.5
20°	3352.7	3356.3	3338.3	3293.4	3261.1	3250.3	3252.1	3241.3	3203.6	3137.2	3024.1
22.5°	3300.6	3306.0	3289.8	3257.5	3253.9	3279.1	3284.4	3289.8	3271.9	3212.6	3103.1
25°	3325.7	3334.7	3309.6	3264.7	3271.9	3327.5	3338.3	3356.3	3341.9	3291.6	3196.4
27.5°	3499.9	3505.3	3440.7	3349.1	3327.5	3386.8	3403.0	3431.7	3420.9	3374.2	3300.6
30°	3904.0	3900.4	3762.1	3537.6	3447.9	3471.2	3483.8	3525.1	3528.7	3498.1	3428.1
32.5°	4473.2	4455.3	4241.6	3884.2	3623.8	3566.4	3580.7	3636.4	3677.7	3645.4	3550.2
35°	5074.8	5058.6	4823.4	4405.0	3948.9	3749.5	3733.4	3776.5	3839.3	3749.5	3613.1
37.5°	5647.7	5622.5	5381.9	4864.7	4349.3	4071.0	4047.6	4004.5	3966.8	3794.4	3690.3
40°	6283.4	6254.6	6044.5	5459.1	4791.1	4317.0	4257.7	4087.1	4053.0	3943.5	3891.4
42.5°	6962.2	6962.2	6788.0	6211.5	5324.4	4669.0	4591.8	4335.0	4370.9	4299.0	4238.0
45°	7640.9	7660.7	7522.4	6969.3	6037.3	5333.4	5209.5	4845.0	4931.2	4898.8	4868.3
47.5°	8219.2	8256.9	8230.0	7743.3	6910.1	6141.5	5952.9	5574.0	5759.0	5836.2	5922.4
50°	8842.3	8883.6	8856.7	8664.5	7931.9	7120.2	6951.4	6559.9	6877.8	7109.4	7391.3
52.5°	9767.1	9826.4	9601.9	9528.3	9172.7	8231.8	8080.9	7635.6	8212.0	8596.3	9224.8
55°	10548.3	10546.5	10467.5	10636.3	10505.2	9591.1	9424.1	9020.1	9756.4	10164.0	11083.4
57.5°	10911.0	10954.1	11225.3	11703.0	11965.1	11252.2	11092.4	10679.4	11413.8	11625.7	12618.8
60°	11097.8	11151.7	11676.0	12620.6	13326.3	13065.9	13003.1	12476.9	12889.9	12864.8	13913.5
62.5°	10835.6	10943.3	11785.6	13040.8	14297.8	14888.6	14868.9	14073.4	14145.2	13899.2	14716.2
65°	9632.4	9749.2	11070.8	12830.7	14852.7	16275.0	16280.3	15518.9	15109.5	14402.0	14581.6
67.5°	6888.5	7055.5	8689.7	11480.3	14657.0	17023.8	17086.6	16174.4	15335.8	13956.6	13166.5
70°	3754.9	3877.0	5157.4	8344.9	12893.5	16844.2	16960.9	15858.3	14337.3	12072.9	10135.3
72.5°	1706.0	1745.5	2399.1	4579.2	8808.2	14498.9	14987.4	14152.4	11774.8	8917.7	6445.0
75°	781.2	799.1	1045.1	2190.8	4602.5	9702.5	10045.5	10541.1	8194.0	5631.5	3359.9
77.5°	490.2	495.6	594.4	1002.0	2295.0	4843.2	5204.1	6276.2	4798.3	2787.0	1404.3
80°	289.1	294.5	369.9	542.3	1077.5	2216.0	2559.0	2481.7	2255.5	1203.2	639.3
82.5°	145.5	150.8	213.7	308.9	587.2	881.7	1037.9	1043.3	840.4	651.9	360.9
85°	52.1	53.9	70.0	122.1	249.6	290.9	325.0	396.9	411.2	378.9	174.2
87.5°	0.0	0.0	1.8	3.6	7.2	28.7	30.5	57.5	120.3	134.7	70.0
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°	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0	2462.0
2.5°	2469.2	2442.2	2433.3	2424.3	2409.9	2404.5	2393.7	2383.0	2383.0	2372.2	2366.8
5°	2481.7	2445.8	2422.5	2411.7	2402.7	2408.1	2408.1	2411.7	2424.3	2417.1	2420.7
7.5°	2526.6	2485.3	2453.0	2444.0	2444.0	2465.6	2479.9	2497.9	2521.2	2524.8	2524.8
10°	2605.6	2557.2	2523.0	2517.7	2526.6	2557.2	2578.7	2600.3	2629.0	2630.8	2634.4
12.5°	2691.8	2643.4	2609.2	2616.4	2625.4	2664.9	2688.2	2706.2	2734.9	2734.9	2733.1
15°	2781.6	2727.8	2699.0	2713.4	2740.3	2785.2	2788.8	2790.6	2805.0	2801.4	2799.6
17.5°	2875.0	2817.5	2796.0	2817.5	2846.3	2867.8	2849.9	2824.7	2819.3	2812.2	2808.6
20°	2966.6	2907.3	2898.4	2914.5	2923.5	2905.5	2849.9	2803.2	2781.6	2770.9	2767.3
22.5°	3045.6	2995.3	2989.9	2989.9	2945.0	2882.2	2799.6	2736.7	2708.0	2693.6	2690.0
25°	3139.0	3092.3	3083.3	3034.8	2919.9	2805.0	2693.6	2636.2	2612.8	2605.6	2607.4
27.5°	3248.5	3216.2	3187.5	3049.2	2848.1	2668.5	2542.8	2517.7	2508.7	2517.7	2523.0
30°	3383.2	3350.9	3286.2	3031.2	2733.1	2490.7	2370.4	2368.6	2395.5	2418.9	2422.5
32.5°	3492.7	3478.4	3372.4	2973.8	2571.5	2295.0	2192.6	2199.8	2248.3	2280.6	2286.0
35°	3578.9	3602.3	3444.3	2878.6	2379.4	2110.0	2029.2	2032.8	2059.7	2104.6	2106.4
37.5°	3701.1	3780.1	3508.9	2733.1	2158.5	1950.2	1876.6	1849.6	1846.0	1858.6	1862.2
40°	3947.1	4065.6	3555.6	2521.2	1944.8	1806.5	1723.9	1671.9	1627.0	1592.8	1582.1
42.5°	4318.8	4455.3	3582.5	2264.5	1754.5	1664.7	1571.3	1504.8	1425.8	1354.0	1328.9
45°	5001.2	5046.1	3582.5	1991.5	1585.7	1531.8	1438.4	1359.4	1258.8	1174.4	1156.5
47.5°	6093.0	5949.3	3586.1	1727.5	1436.6	1415.1	1334.2	1244.5	1133.1	1063.1	1052.3
50°	7737.9	7233.3	3659.8	1508.4	1312.7	1316.3	1257.0	1158.3	1057.7	1005.6	996.6
52.5°	9601.9	8815.4	3857.3	1346.8	1208.5	1235.5	1203.2	1108.0	1018.2	973.3	964.3
55°	11354.6	10269.9	4026.1	1231.9	1120.6	1167.2	1165.4	1077.5	996.6	951.8	946.4
57.5°	12845.1	11266.6	4000.9	1138.5	1045.1	1104.4	1131.3	1057.7	982.3	944.6	939.2
60°	13771.7	11794.5	3643.6	1052.3	987.7	1059.5	1111.6	1052.3	989.5	980.5	982.3
62.5°	14173.9	11697.6	2957.6	987.7	950.0	1037.9	1133.1	1090.0	1055.9	1077.5	1090.0
65°	13549.0	10864.3	2176.5	939.2	914.0	1043.3	1183.4	1149.3	1055.9	1070.3	1075.7
67.5°	11814.3	9248.2	1573.1	890.7	869.1	1059.5	1255.2	1140.3	994.8	994.8	984.1
70°	8513.7	6651.5	1142.1	842.2	824.3	1036.2	1258.8	1079.3	924.8	919.4	892.5
72.5°	5123.3	3923.7	890.7	788.3	756.0	919.4	1179.8	1007.4	856.6	811.7	779.4
75°	2661.3	1966.4	747.0	729.1	648.3	779.4	1079.3	896.1	732.7	693.2	675.2
77.5°	1140.3	919.4	641.1	650.1	538.7	655.5	870.9	775.8	650.1	599.8	583.6
80°	562.1	522.6	506.4	520.8	431.0	506.4	750.6	678.8	551.3	493.8	470.5
82.5°	321.4	305.3	364.5	369.9	307.1	423.8	633.9	574.6	456.1	393.3	355.6
85°	149.0	159.8	220.9	222.7	190.4	290.9	414.8	323.2	242.4	201.1	192.1
87.5°	59.3	70.0	97.0	95.2	55.7	53.9	35.9	19.8	16.2	14.4	12.6
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)