

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: P637497

Luminaire Tested: GWS-SA4C-830-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-830-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15392.2 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

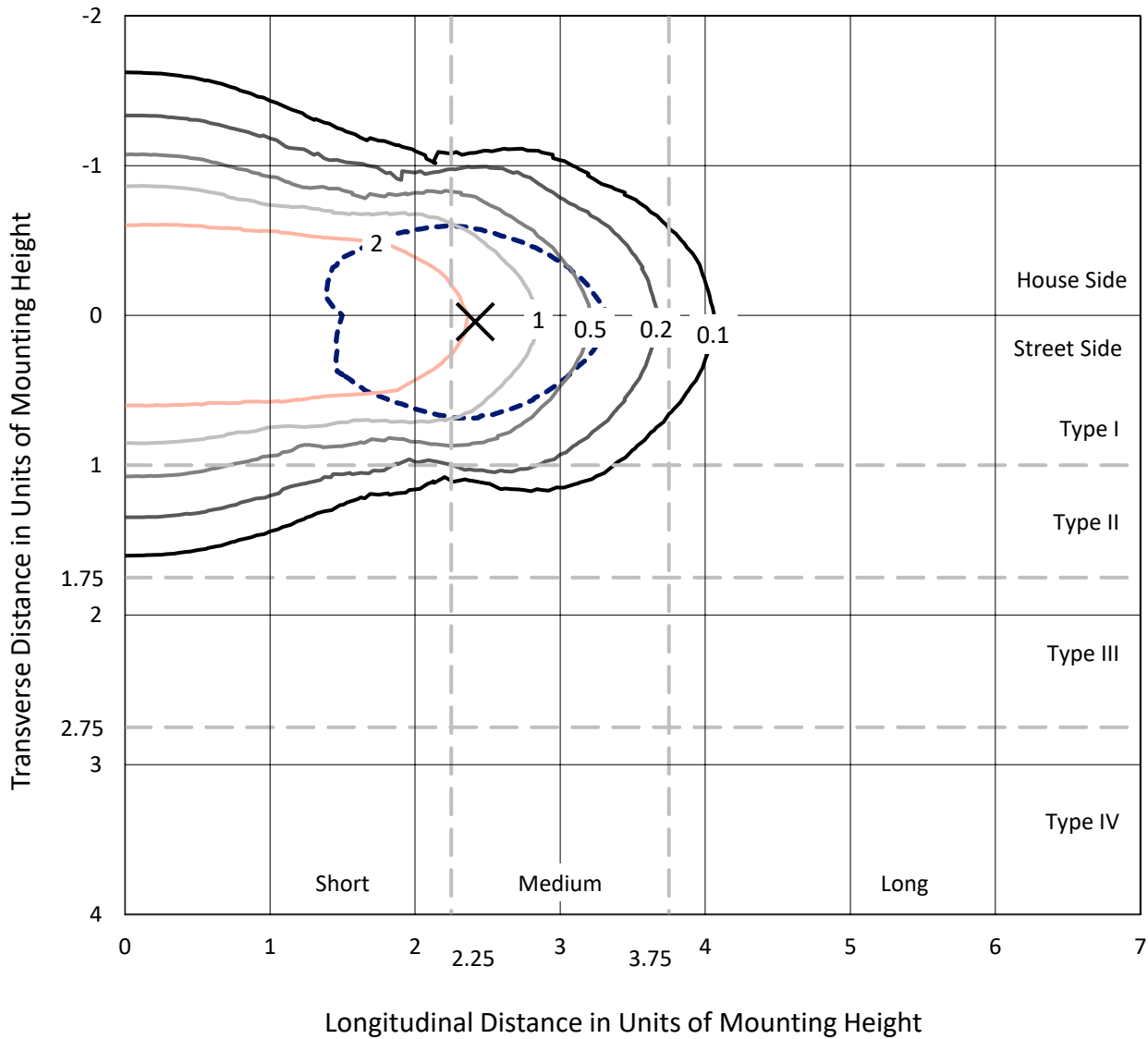
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

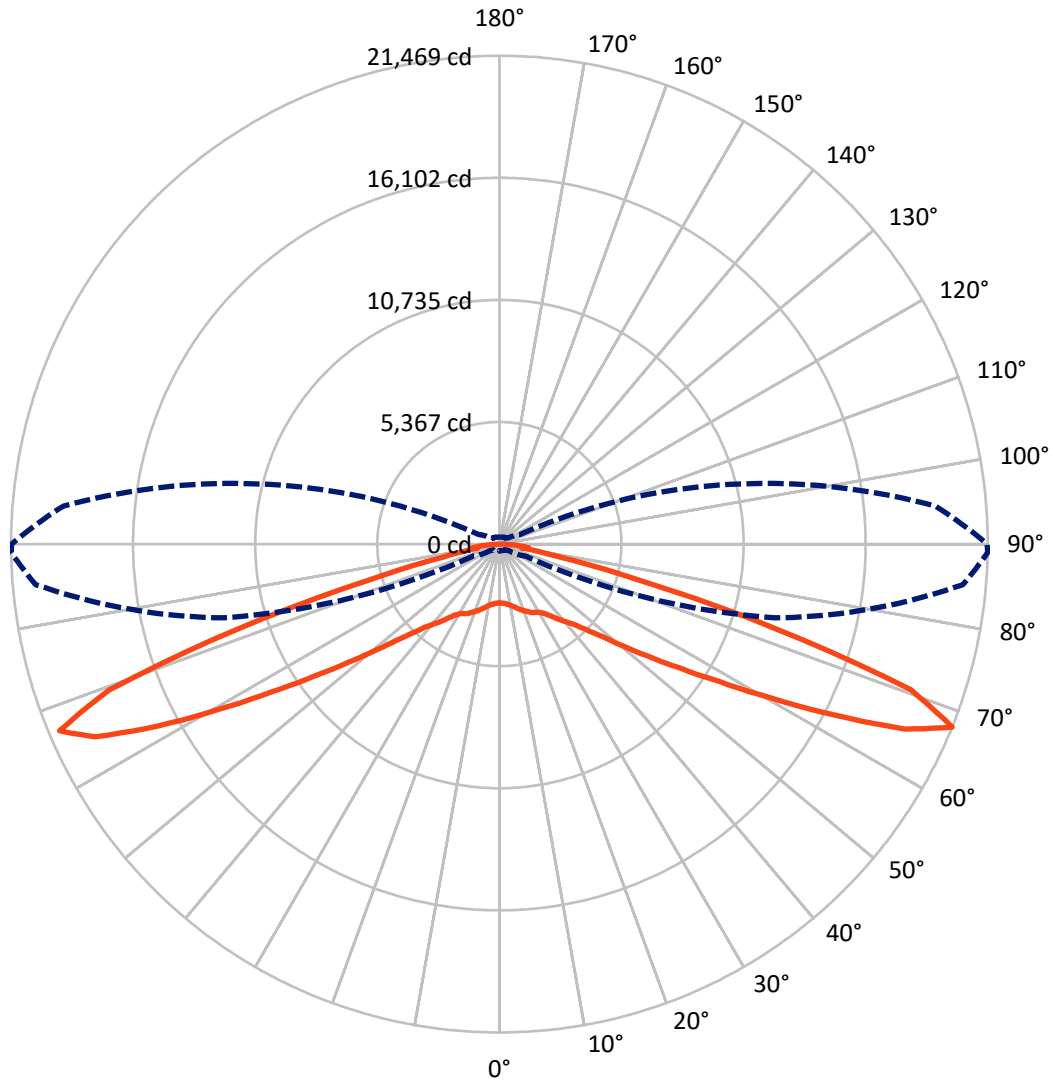
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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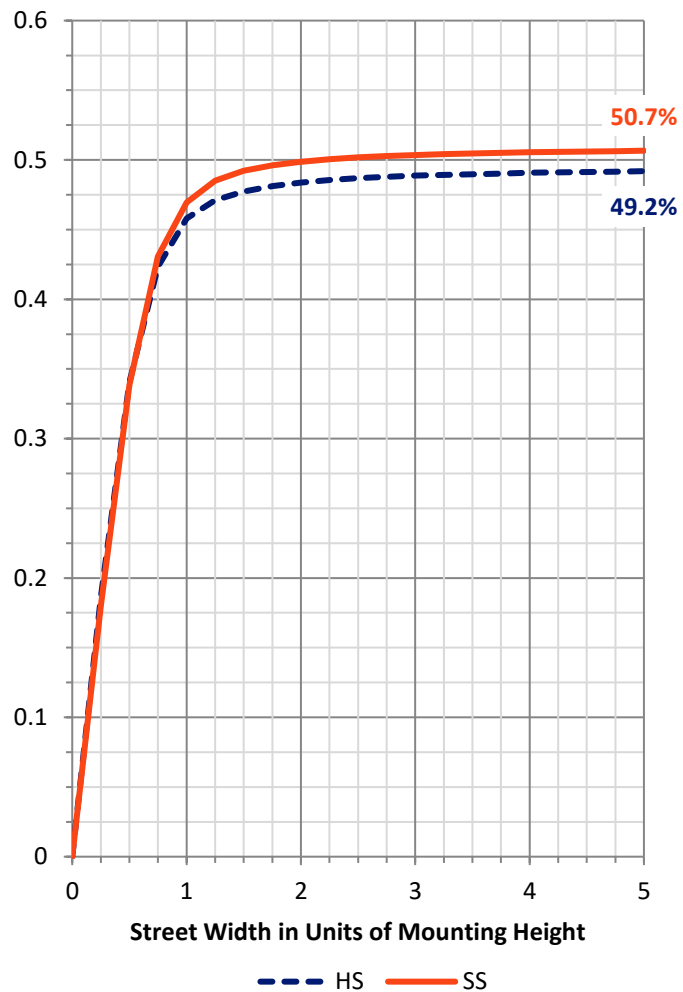
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7628.6	0.0	7628.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7763.5	0.0	7763.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	15392.2	0.0	15392.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	1.7
10°-20°	843.8	5.5
20°-30°	1426.4	9.3
30°-40°	1957.6	12.7
40°-50°	2496.3	16.2
50°-60°	3132.0	20.3
60°-70°	3777.5	24.5
70°-80°	1366.6	8.9
80°-90°	132.9	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°	15392.2	100.0
0°-180°	15392.2	100.0

Coefficient of Utilization



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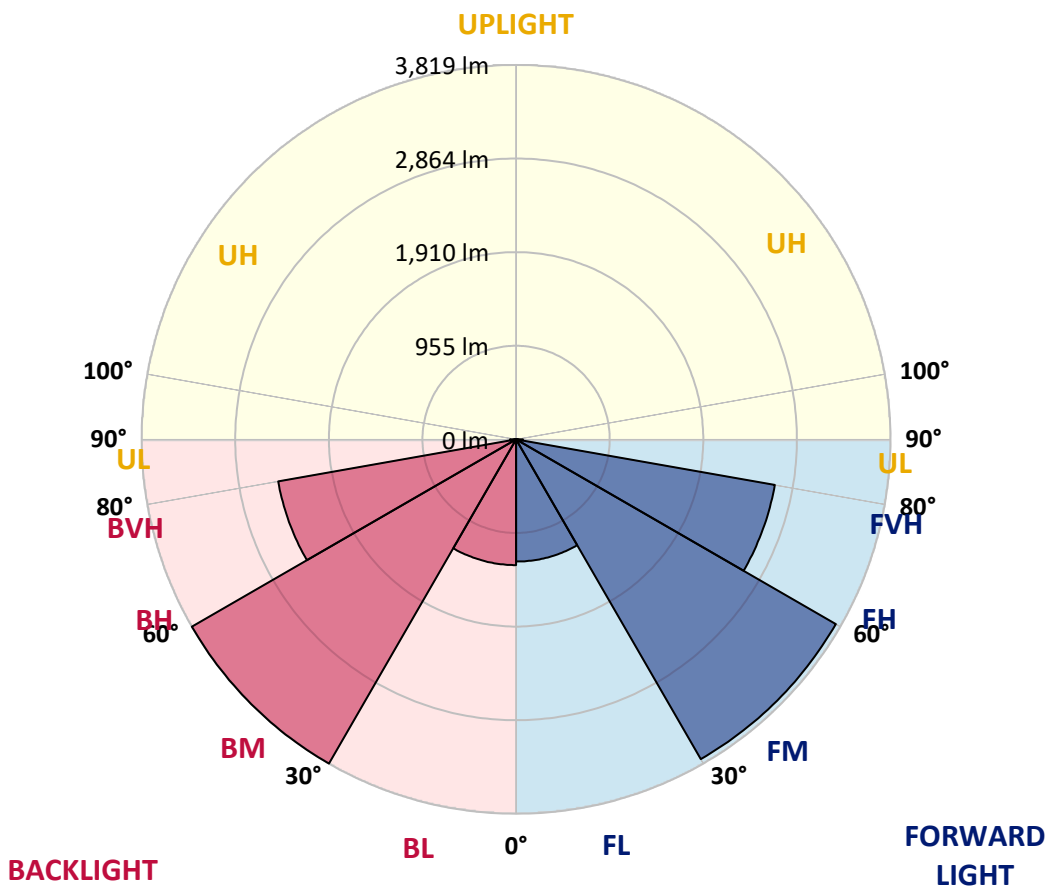
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1246.7	8.1			
FM (30°-60°)	3766.8	24.5			
FH (60°-80°)	2680.0	17.4			G2/5000
FVH (80°-90°)	70.1	0.5			G1/100
BL (0°-30°)	1282.7	8.3	B3/2500		
BM (30°-60°)	3819.1	24.8	B3/5000		
BH (60°-80°)	2464.0	16.0	B3/2500		G3/2500
BVH (80°-90°)	62.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5
2.5°	2591.2	2589.0	2583.5	2600.0	2596.7	2597.8	2604.5	2600.0	2592.3	2579.0	2597.8
5°	2664.2	2663.0	2650.9	2660.8	2649.8	2642.0	2640.9	2629.9	2621.0	2606.7	2626.6
7.5°	2734.9	2733.8	2723.9	2741.5	2732.7	2723.9	2713.9	2691.8	2670.8	2649.8	2671.9
10°	2789.1	2788.0	2785.8	2811.2	2813.4	2816.7	2812.3	2774.7	2738.2	2712.8	2734.9
12.5°	2820.0	2823.3	2828.9	2875.3	2898.5	2920.6	2926.1	2895.2	2834.4	2797.9	2824.4
15°	2799.0	2805.7	2833.3	2917.3	2981.4	3031.2	3052.2	3026.7	2948.3	2887.5	2917.3
17.5°	2698.4	2704.0	2758.1	2886.4	3027.9	3142.8	3177.1	3161.6	3074.3	3000.2	3029.0
20°	2559.1	2571.3	2629.9	2809.0	3020.1	3220.2	3312.0	3306.4	3211.4	3097.5	3131.8
22.5°	2433.1	2447.5	2509.4	2707.3	2968.2	3240.1	3447.9	3462.3	3336.3	3194.8	3222.4
25°	2291.6	2304.9	2384.5	2586.8	2878.6	3224.6	3564.0	3629.2	3477.8	3306.4	3331.9
27.5°	2146.8	2156.7	2235.2	2450.8	2761.4	3195.9	3655.8	3812.7	3617.1	3383.8	3401.5
30°	2019.7	2032.9	2104.8	2314.8	2633.2	3138.4	3730.9	4008.4	3777.4	3471.1	3485.5
32.5°	1897.0	1908.0	1986.5	2181.1	2497.2	3050.0	3798.4	4238.3	4015.0	3633.6	3633.6
35°	1742.2	1762.1	1850.5	2052.8	2369.0	2932.8	3847.0	4505.8	4340.0	3873.5	3874.6
37.5°	1599.6	1610.7	1703.5	1908.0	2234.1	2800.1	3851.4	4783.3	4751.3	4178.6	4180.8
40°	1437.1	1451.5	1551.0	1753.3	2079.4	2660.8	3809.4	5042.0	5182.4	4492.6	4480.4
42.5°	1272.4	1293.4	1388.5	1586.3	1912.4	2490.6	3697.8	5288.5	5729.6	4856.3	4826.4
45°	1113.2	1126.5	1221.5	1408.4	1721.2	2287.2	3518.7	5525.1	6379.6	5409.0	5365.9
47.5°	934.1	939.6	1038.0	1217.1	1523.3	2060.6	3262.2	5736.2	7093.7	6140.8	6066.8
50°	774.9	782.7	860.0	1013.7	1281.2	1791.9	2942.7	5860.0	8003.5	7139.1	7010.8
52.5°	626.8	634.5	696.4	819.1	1059.0	1485.7	2547.0	5831.3	8926.6	8378.3	8191.4
55°	506.3	511.8	553.8	650.0	833.5	1181.7	2079.4	5573.7	9951.3	9996.7	9594.3
57.5°	427.8	430.0	458.8	517.4	651.1	910.9	1605.1	4965.7	11025.8	12061.7	11400.6
60°	382.5	383.6	396.9	433.3	514.0	695.3	1176.2	3997.3	12139.0	14645.1	13738.6
62.5°	353.7	353.7	364.8	385.8	426.7	535.0	864.5	2870.9	12938.3	17456.3	16555.3
65°	326.1	326.1	333.8	351.5	373.6	436.7	648.9	1851.6	13330.7	19806.5	19606.4
67.5°	290.7	291.8	297.4	316.2	336.1	364.8	491.9	1252.5	12516.0	20456.5	21469.1
70°	257.6	258.7	266.4	278.6	295.2	315.1	384.7	863.4	9110.1	17037.3	19196.3
72.5°	221.1	225.5	231.0	244.3	254.3	268.6	314.0	559.4	5300.7	10959.5	12689.6
75°	181.3	186.8	193.5	206.7	213.4	218.9	258.7	399.1	2550.3	5553.8	6324.3
77.5°	140.4	145.9	153.7	165.8	170.2	176.9	197.9	288.5	1221.5	2461.9	2654.2
80°	94.0	96.2	102.8	117.2	124.9	129.3	145.9	196.8	530.6	988.3	979.4
82.5°	57.5	58.6	60.8	69.6	73.0	77.4	95.1	120.5	253.2	1123.1	1287.9
85°	21.0	19.9	18.8	24.3	28.7	33.2	44.2	60.8	110.5	771.6	863.4
87.5°	0.0	0.0	0.0	1.1	2.2	2.2	4.4	8.8	26.5	288.5	197.9
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°	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5	2583.5
2.5°	2592.3	2580.1	2595.6	2606.7	2631.0	2639.8	2642.0	2634.3	2634.3	2621.0	2623.3
5°	2622.1	2614.4	2639.8	2658.6	2694.0	2707.3	2716.1	2710.6	2713.9	2705.1	2707.3
7.5°	2667.5	2660.8	2705.1	2741.5	2778.0	2793.5	2801.2	2796.8	2797.9	2786.9	2790.2
10°	2730.5	2732.7	2785.8	2833.3	2881.9	2897.4	2900.7	2887.5	2876.4	2856.5	2857.6
12.5°	2816.7	2827.8	2902.9	2956.0	3005.7	3027.9	3003.5	2954.9	2909.6	2875.3	2870.9
15°	2910.7	2930.6	3038.9	3106.3	3160.5	3149.5	3077.6	2968.2	2878.6	2827.8	2817.8
17.5°	3023.4	3053.3	3189.2	3269.9	3316.4	3245.6	3095.3	2931.7	2806.8	2738.2	2725.0
20°	3129.6	3177.1	3348.4	3453.5	3459.0	3299.8	3087.5	2857.6	2700.6	2616.6	2598.9
22.5°	3226.8	3287.6	3515.4	3649.1	3577.3	3324.1	3040.0	2752.6	2572.4	2474.0	2458.5
25°	3333.0	3419.2	3709.9	3834.8	3695.5	3314.2	2940.5	2622.1	2417.6	2317.0	2306.0
27.5°	3405.9	3514.3	3905.6	4025.0	3792.8	3257.8	2812.3	2479.5	2276.1	2181.1	2165.6
30°	3489.9	3628.1	4121.1	4231.7	3852.5	3174.9	2675.2	2346.9	2144.6	2041.8	2030.7
32.5°	3642.5	3816.0	4388.7	4450.6	3871.3	3072.1	2543.7	2218.7	2007.5	1904.7	1889.2
35°	3887.9	4091.3	4764.5	4694.9	3856.9	2959.3	2418.7	2068.3	1867.1	1770.9	1755.5
37.5°	4197.4	4450.6	5183.5	4914.9	3817.1	2835.5	2270.6	1942.3	1741.1	1643.8	1635.0
40°	4486.0	4797.7	5653.3	5105.0	3736.5	2682.9	2128.0	1810.7	1605.1	1502.3	1482.4
42.5°	4847.4	5262.0	6197.2	5269.7	3603.8	2500.5	1967.7	1648.2	1434.9	1342.0	1317.7
45°	5396.8	5912.0	6829.5	5427.8	3405.9	2276.1	1766.5	1450.4	1248.1	1153.0	1134.2
47.5°	6082.2	6724.5	7514.9	5521.8	3105.2	2039.6	1538.8	1241.4	1039.1	931.9	923.1
50°	7045.1	7906.2	8250.0	5505.2	2769.2	1758.8	1282.3	992.7	823.6	746.2	734.0
52.5°	8218.0	9389.8	9044.9	5306.2	2412.1	1439.3	999.3	779.3	653.3	598.1	588.1
55°	9689.3	11166.2	9881.7	4879.5	1961.1	1102.1	784.9	614.6	528.4	495.2	490.8
57.5°	11511.1	13466.7	10687.6	4160.9	1474.7	841.3	604.7	507.4	466.5	446.6	445.5
60°	13915.5	15908.7	11387.3	3233.5	1055.7	643.4	499.7	453.2	421.2	407.9	406.8
62.5°	16774.2	18126.2	11822.9	2202.1	793.7	512.9	440.0	411.2	392.4	384.7	383.6
65°	19712.5	19527.9	11615.1	1442.6	602.5	435.6	394.6	379.2	362.6	354.9	354.9
67.5°	21448.1	19231.7	10019.9	1001.5	477.6	382.5	356.0	341.6	314.0	307.3	307.3
70°	18997.3	15583.7	6567.5	732.9	386.9	335.0	309.5	289.6	278.6	271.9	270.8
72.5°	12564.6	10140.4	3492.1	508.5	322.8	285.2	262.0	254.3	241.0	234.4	233.3
75°	6253.6	5326.1	1789.7	367.0	268.6	228.8	218.9	215.6	204.5	195.7	193.5
77.5°	2606.7	2371.2	834.6	266.4	204.5	184.6	175.8	175.8	163.6	153.7	149.2
80°	982.8	875.5	394.6	182.4	151.4	137.1	131.5	127.1	117.2	105.0	98.4
82.5°	1314.4	858.9	193.5	113.9	99.5	88.4	80.7	77.4	71.9	66.3	61.9
85°	851.2	610.2	87.3	58.6	49.7	37.6	33.2	31.0	27.6	24.3	22.1
87.5°	173.6	204.5	26.5	11.1	6.6	3.3	3.3	1.1	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)