

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: P641670

Luminaire Tested: GWS-SA6B-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-735-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16254.4 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

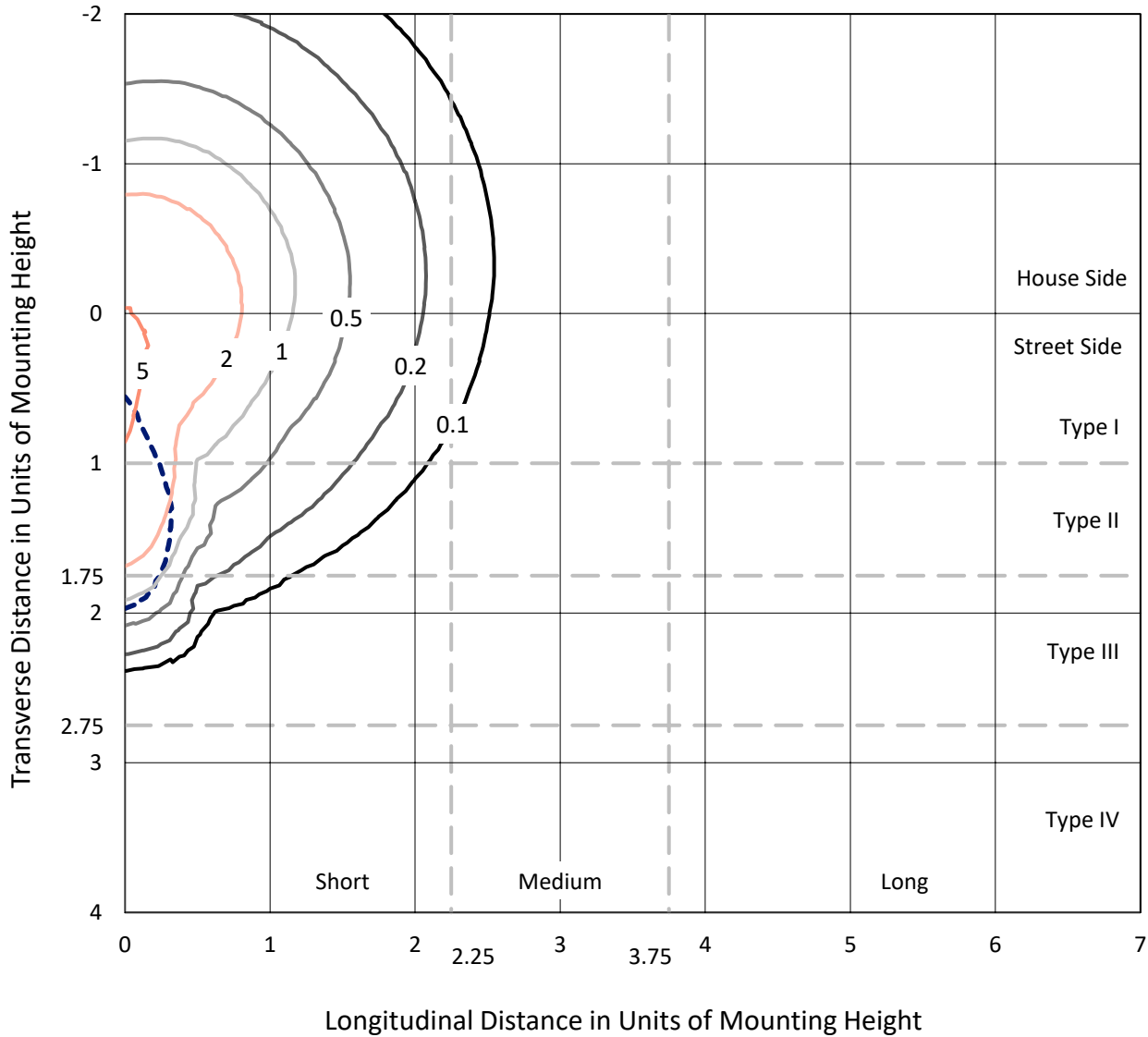
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

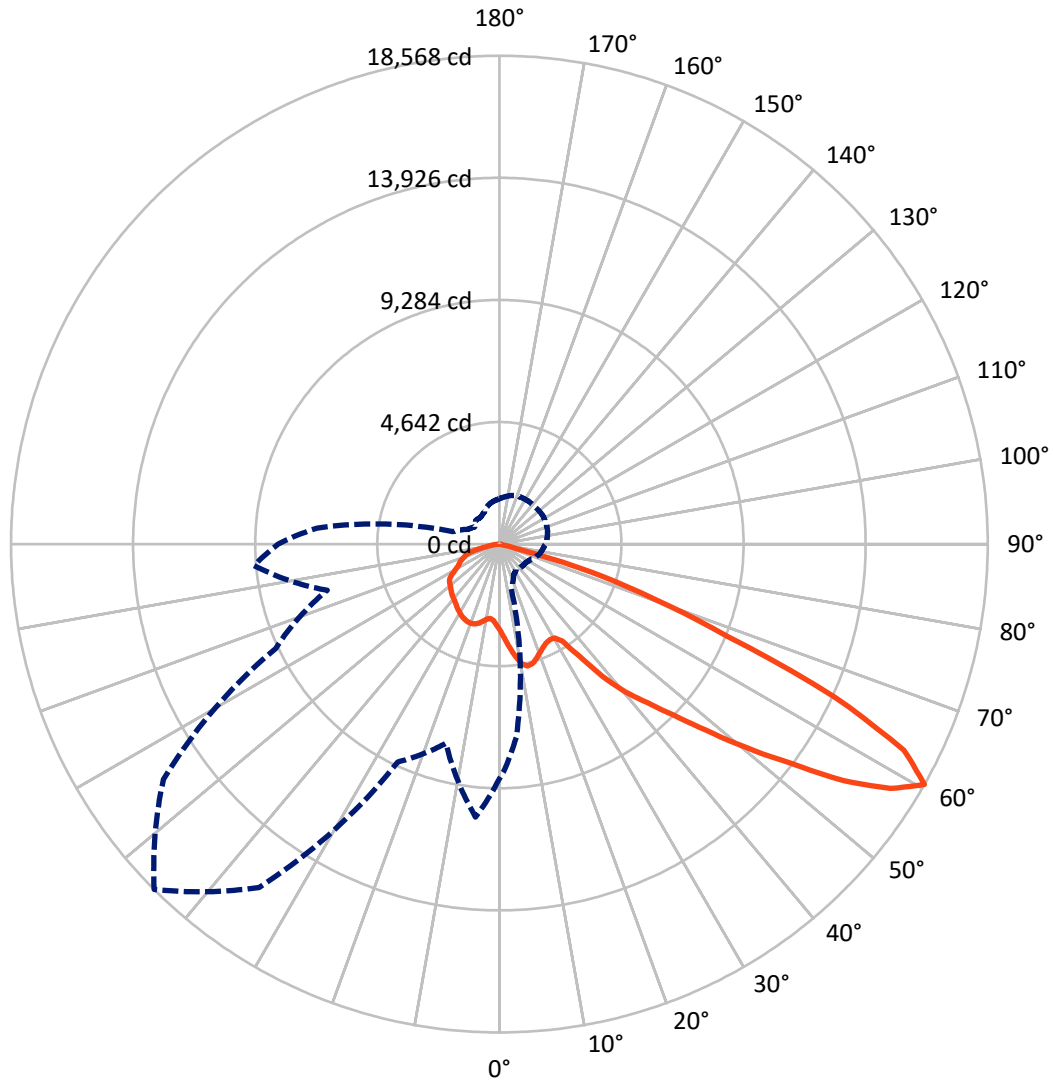
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5560.5	0.0	5560.5
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	10693.9	0.0	10693.9
	% Fixture	65.8	0.0	65.8
Total	Lumens	16254.4	0.0	16254.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.3	2.0
10°-20°	1027.3	6.3
20°-30°	1673.1	10.3
30°-40°	2350.4	14.5
40°-50°	3216.2	19.8
50°-60°	4126.3	25.4
60°-70°	2778.5	17.1
70°-80°	694.6	4.3
80°-90°	67.7	0.4
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°	16254.4	100.0
0°-180°	16254.4	100.0

Coefficient of Utilization



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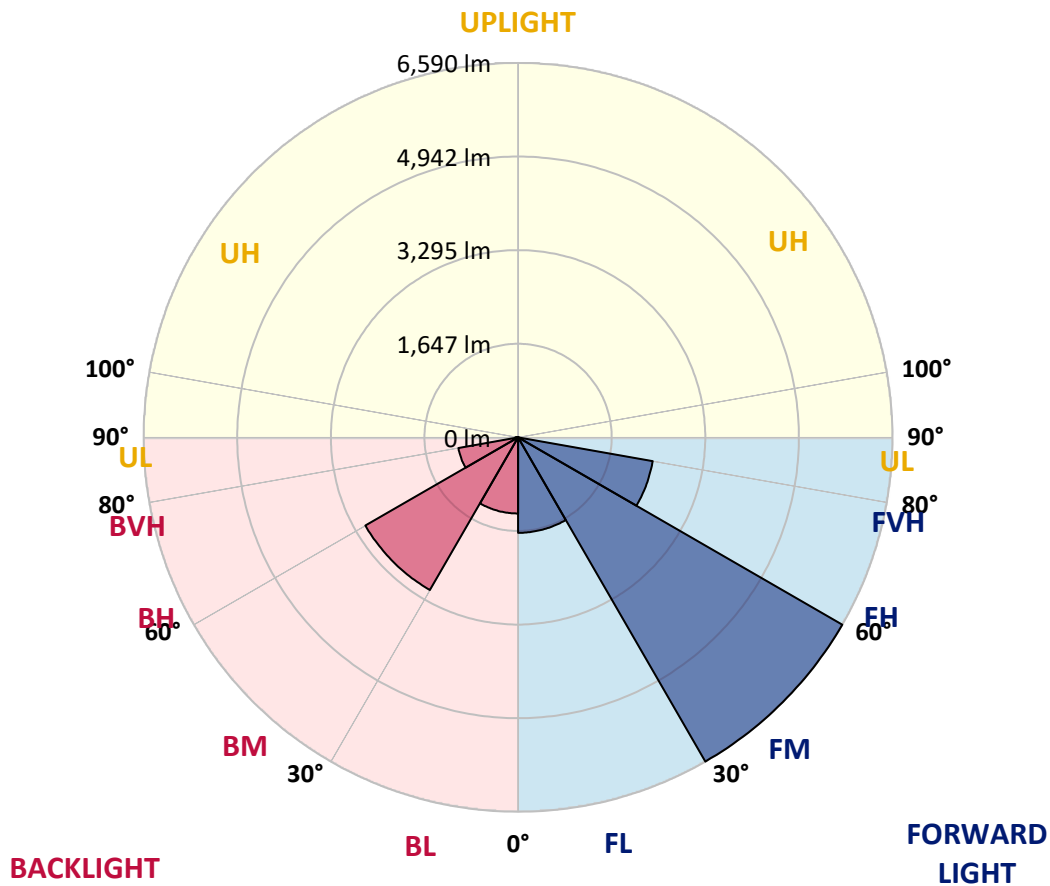
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1680.3	10.3			
FM (30°-60°)	6589.7	40.5			
FH (60°-80°)	2406.3	14.8			G2/5000
FVH (80°-90°)	17.6	0.1			G1/100
BL (0°-30°)	1340.4	8.2	B3/2500		
BM (30°-60°)	3103.2	19.1	B3/5000		
BH (60°-80°)	1066.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	50.1	0.3			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3
2.5°	3468.5	3461.0	3453.5	3395.1	3380.1	3338.2	3308.3	3270.9	3217.0	3187.0	3161.6
5°	3685.5	3673.5	3633.1	3513.4	3435.5	3350.2	3279.8	3202.0	3119.7	3065.8	3023.9
7.5°	3890.6	3887.6	3818.7	3621.1	3495.4	3372.6	3276.8	3163.1	3044.8	2964.0	2910.1
10°	4080.7	4058.3	3975.9	3718.4	3553.8	3413.1	3309.8	3184.0	3046.3	2937.0	2865.2
12.5°	4248.4	4219.9	4106.2	3808.3	3604.7	3431.0	3318.8	3215.5	3124.2	3032.8	2950.5
15°	4386.1	4351.7	4236.4	3892.1	3649.6	3420.6	3263.4	3182.5	3214.0	3254.4	3163.1
17.5°	4514.8	4478.9	4338.2	3953.5	3663.1	3356.2	3127.1	3092.7	3251.4	3435.5	3393.6
20°	4622.6	4582.2	4419.0	3983.4	3639.1	3233.4	2950.5	3010.4	3220.0	3440.0	3507.4
22.5°	4739.4	4706.4	4510.3	4026.8	3609.2	3064.3	2802.3	2949.0	3166.1	3359.2	3461.0
25°	4926.5	4886.1	4652.5	4103.2	3594.2	2905.6	2696.0	2889.1	3091.2	3266.4	3345.7
27.5°	5197.4	5122.6	4847.2	4236.4	3610.7	2755.9	2628.7	2815.8	3004.4	3154.1	3218.5
30°	5492.3	5402.5	5062.7	4374.1	3634.6	2664.6	2592.7	2731.9	2871.2	3020.9	3091.2
32.5°	5841.1	5761.8	5293.2	4477.4	3583.7	2622.7	2565.8	2640.6	2751.4	2871.2	2929.5
35°	6257.3	6115.1	5544.7	4561.2	3419.1	2561.3	2541.8	2540.3	2598.7	2715.5	2781.3
37.5°	6704.9	6552.2	5854.6	4651.1	3163.1	2464.0	2485.0	2422.1	2476.0	2568.8	2643.6
40°	7071.6	6911.5	6167.5	4773.8	2842.7	2311.3	2359.2	2291.8	2324.8	2420.6	2504.4
42.5°	7430.9	7260.3	6459.4	4913.0	2532.9	2161.6	2185.6	2160.1	2170.6	2270.9	2387.6
45°	7902.4	7710.8	6818.6	5011.8	2254.4	2043.3	2020.9	1977.5	2032.9	2163.1	2287.4
47.5°	8689.8	8460.8	7407.0	5076.2	2052.3	1976.0	1872.7	1847.2	1916.1	2061.3	2190.1
50°	9610.5	9412.9	8347.0	5073.2	1901.1	1919.1	1729.0	1706.5	1820.3	1967.0	2103.2
52.5°	10364.9	10164.4	9150.9	4923.5	1776.9	1797.8	1645.2	1582.3	1738.0	1874.2	2010.4
55°	10974.2	10748.2	9520.7	4297.8	1619.7	1604.7	1553.8	1438.6	1634.7	1781.4	1908.6
57.5°	10646.4	10376.9	9073.1	3267.9	1458.0	1363.7	1396.7	1311.3	1494.0	1678.1	1800.8
60°	8926.4	8683.9	7371.0	1739.5	1282.9	1139.2	1208.0	1221.5	1339.8	1553.8	1679.6
62.5°	6131.5	5954.9	4995.4	1055.4	1011.9	914.6	1022.4	1119.7	1208.0	1389.2	1498.5
65°	2999.9	2947.5	2498.4	676.6	708.1	739.5	847.3	965.5	1095.8	1254.5	1369.7
67.5°	826.3	832.3	757.5	528.4	558.4	645.2	730.5	824.8	955.1	1101.8	1218.5
70°	363.8	369.7	381.7	407.2	464.1	543.4	631.7	729.0	848.8	971.5	1083.8
72.5°	253.0	259.0	276.9	309.9	360.8	435.6	519.4	612.3	736.5	839.8	932.6
75°	155.7	160.2	176.6	205.1	239.5	296.4	378.7	464.1	573.3	667.6	750.0
77.5°	82.3	79.3	89.8	109.3	139.2	169.2	224.5	278.4	356.3	432.6	501.5
80°	44.9	43.4	49.4	59.9	68.9	92.8	130.2	166.2	211.1	254.5	291.9
82.5°	19.5	18.0	19.5	25.4	31.4	44.9	65.9	91.3	116.8	146.7	170.7
85°	0.0	0.0	0.0	1.5	7.5	12.0	22.5	32.9	47.9	65.9	80.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	13.5
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°	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3
2.5°	3146.6	3109.2	3106.2	3076.3	3079.2	3080.7	3050.8	3038.8	3049.3	3061.3	3055.3
5°	3008.9	2970.0	2953.5	2925.1	2922.1	2908.6	2896.6	2881.6	2892.1	2902.6	2908.6
7.5°	2889.1	2863.7	2853.2	2845.7	2848.7	2842.7	2818.8	2805.3	2803.8	2808.3	2814.3
10°	2850.2	2829.3	2842.7	2863.7	2878.7	2889.1	2863.7	2841.2	2820.3	2811.3	2811.3
12.5°	2934.0	2907.1	2934.0	2956.5	2986.4	2993.9	2965.5	2941.5	2934.0	2943.0	2961.0
15°	3119.7	3056.8	3055.3	3068.8	3092.7	3104.7	3077.7	3065.8	3065.8	3122.7	3167.6
17.5°	3305.3	3202.0	3158.6	3151.1	3166.1	3170.6	3148.1	3137.6	3164.6	3275.3	3359.2
20°	3435.5	3309.8	3215.5	3197.5	3202.0	3203.5	3185.5	3178.0	3217.0	3351.7	3422.0
22.5°	3422.0	3329.2	3214.0	3191.5	3199.0	3196.0	3179.5	3176.5	3208.0	3324.7	3357.7
25°	3329.2	3257.4	3160.1	3145.1	3157.1	3155.6	3139.1	3131.6	3145.1	3223.0	3225.9
27.5°	3223.0	3160.1	3076.3	3071.8	3091.2	3101.7	3073.3	3050.8	3046.3	3098.7	3086.7
30°	3095.7	3049.3	2981.9	2984.9	3020.9	3026.9	2992.4	2959.5	2950.5	2978.9	2962.5
32.5°	2944.5	2929.5	2893.6	2901.1	2935.5	2947.5	2911.6	2877.2	2866.7	2875.7	2841.2
35°	2815.8	2809.8	2812.8	2826.3	2856.2	2865.2	2835.2	2808.3	2793.3	2761.9	2717.0
37.5°	2682.6	2699.0	2742.4	2767.9	2784.3	2781.3	2764.9	2745.4	2721.5	2663.1	2607.7
40°	2558.3	2600.2	2678.1	2706.5	2712.5	2714.0	2702.0	2685.5	2655.6	2577.8	2514.9
42.5°	2462.5	2508.9	2612.2	2655.6	2658.6	2661.6	2649.6	2636.1	2594.2	2490.9	2429.6
45°	2362.2	2423.6	2544.8	2597.2	2594.2	2592.7	2582.3	2576.3	2526.9	2407.1	2339.7
47.5°	2276.9	2348.7	2479.0	2523.9	2522.4	2520.9	2513.4	2513.4	2464.0	2333.8	2257.4
50°	2193.0	2275.4	2411.6	2449.0	2452.0	2449.0	2446.0	2450.5	2392.1	2252.9	2178.1
52.5°	2101.7	2194.5	2336.8	2371.2	2389.1	2396.6	2396.6	2386.2	2317.3	2172.1	2089.8
55°	2001.4	2089.8	2254.4	2300.8	2315.8	2329.3	2329.3	2308.3	2243.9	2097.2	2008.9
57.5°	1877.2	1955.0	2085.3	2131.7	2167.6	2176.6	2176.6	2142.1	2089.8	1949.0	1877.2
60°	1742.5	1809.8	1898.1	1947.5	1974.5	1956.5	1970.0	1961.0	1919.1	1788.9	1729.0
62.5°	1562.8	1631.7	1729.0	1779.9	1791.9	1773.9	1791.9	1790.4	1733.5	1616.7	1544.9
65°	1434.1	1501.4	1597.3	1663.1	1682.6	1678.1	1690.1	1672.1	1601.7	1491.0	1422.1
67.5°	1281.4	1353.3	1464.0	1537.4	1577.8	1582.3	1598.8	1561.3	1489.5	1368.2	1281.4
70°	1136.2	1197.6	1282.9	1351.8	1408.6	1437.1	1440.1	1386.2	1296.4	1196.1	1133.2
72.5°	983.5	1046.4	1149.7	1224.5	1296.4	1329.3	1329.3	1263.4	1166.1	1055.4	988.0
75°	797.9	856.3	950.6	1031.4	1113.7	1155.7	1154.2	1097.3	989.5	884.7	814.3
77.5°	540.4	583.8	643.7	705.1	717.0	750.0	766.4	694.6	634.7	577.8	515.0
80°	314.4	341.3	374.2	408.7	416.2	426.6	399.7	372.7	341.3	303.9	275.4
82.5°	184.1	202.1	218.6	245.5	250.0	253.0	229.0	217.1	191.6	169.2	151.2
85°	89.8	95.8	110.8	124.2	118.3	115.3	104.8	92.8	82.3	73.4	64.4
87.5°	18.0	18.0	26.9	25.4	21.0	18.0	10.5	13.5	3.0	3.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3
2.5°	3074.8	3100.2	3131.6	3173.6	3221.5	3272.4	3321.8	3359.2	3396.6	3452.0	3443.0
5°	2917.6	2961.0	3010.4	3074.8	3152.6	3240.9	3339.7	3438.5	3544.8	3634.6	3673.5
7.5°	2826.3	2874.2	2932.5	3016.4	3116.7	3224.4	3363.7	3523.8	3696.0	3814.3	3887.6
10°	2826.3	2887.6	2964.0	3044.8	3133.1	3243.9	3416.1	3616.7	3838.2	3993.9	4079.2
12.5°	2989.4	3050.8	3067.3	3064.3	3113.7	3236.4	3458.0	3714.0	3978.9	4143.6	4248.4
15°	3243.9	3264.9	3140.6	3026.9	3034.3	3182.5	3477.4	3791.8	4100.2	4297.8	4411.5
17.5°	3414.6	3359.2	3137.6	2938.5	2896.6	3091.2	3477.4	3866.6	4228.9	4452.0	4558.2
20°	3428.0	3290.3	3061.3	2853.2	2745.4	2970.0	3453.5	3923.5	4353.2	4600.2	4713.9
22.5°	3309.8	3173.6	2980.4	2779.9	2621.2	2823.3	3414.6	3966.9	4459.4	4739.4	4880.1
25°	3175.0	3061.3	2898.1	2705.0	2535.8	2675.1	3378.6	4040.3	4607.6	4928.0	5070.2
27.5°	3043.3	2947.5	2799.3	2642.1	2487.9	2546.3	3356.2	4148.1	4784.3	5195.9	5318.7
30°	2914.6	2827.8	2693.0	2582.3	2462.5	2462.5	3336.7	4272.3	5017.8	5496.8	5619.6
32.5°	2784.3	2702.0	2592.7	2523.9	2447.5	2429.6	3282.8	4389.1	5258.8	5826.2	5951.9
35°	2663.1	2580.8	2496.9	2468.5	2440.0	2404.1	3149.6	4480.4	5493.8	6210.9	6318.7
37.5°	2549.3	2470.0	2407.1	2399.6	2402.6	2335.3	2940.0	4556.7	5787.2	6604.6	6661.5
40°	2450.5	2362.2	2312.8	2311.3	2326.3	2224.5	2675.1	4666.0	6122.6	6938.4	6914.5
42.5°	2362.2	2269.4	2209.5	2223.0	2214.0	2113.7	2416.1	4766.3	6414.5	7251.3	7203.4
45°	2275.4	2185.6	2101.7	2121.2	2110.7	2044.8	2196.0	4839.7	6737.8	7627.0	7633.0
47.5°	2191.5	2103.2	2019.4	1995.4	1993.9	2023.9	2026.9	4863.6	7264.7	8231.8	8095.6
50°	2113.7	2025.4	1938.6	1857.7	1889.2	1982.0	1901.1	4845.7	8053.6	8899.4	8519.2
52.5°	2032.9	1949.0	1853.2	1708.0	1790.4	1881.7	1788.9	4781.3	8535.7	9489.2	9261.7
55°	1940.1	1860.7	1730.5	1553.8	1654.1	1673.6	1673.6	4158.6	8740.7	10073.0	10213.7
57.5°	1815.8	1711.0	1504.4	1362.2	1452.1	1377.2	1550.8	2910.1	8402.4	9888.9	10435.3
60°	1675.1	1562.8	1344.3	1242.5	1269.4	1137.7	1321.8	1824.8	6963.9	8414.4	9360.5
62.5°	1489.5	1386.2	1205.1	1125.7	1070.3	928.1	1064.3	1154.2	4773.8	6248.3	6893.5
65°	1365.2	1251.5	1089.8	985.0	871.2	747.0	706.6	757.5	2567.3	3496.9	3932.5
67.5°	1218.5	1106.3	953.6	821.8	730.5	640.7	570.3	552.4	880.2	1164.6	1260.4
70°	1079.3	971.5	844.3	721.5	630.2	541.9	473.0	423.6	407.2	404.2	398.2
72.5°	937.1	836.8	730.5	616.7	516.5	435.6	374.2	317.4	293.4	285.9	278.4
75°	767.9	688.6	582.3	459.6	378.7	303.9	256.0	218.6	197.6	190.1	181.1
77.5°	494.0	458.1	365.3	296.4	229.0	181.1	155.7	131.7	118.3	115.3	107.8
80°	263.5	245.5	202.1	170.7	136.2	110.8	97.3	83.8	76.3	73.4	70.4
82.5°	146.7	133.2	112.3	98.8	79.3	67.4	59.9	53.9	49.4	47.9	46.4
85°	65.9	56.9	44.9	41.9	37.4	34.4	32.9	29.9	28.4	26.9	25.4
87.5°	3.0	6.0	7.5	6.0	6.0	9.0	10.5	10.5	9.0	9.0	7.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3
2.5°	3498.4	3543.3	3547.8	3562.8	3543.3	3538.8	3507.4	3489.4	3472.9	3468.5
5°	3770.8	3860.7	3896.6	3922.0	3898.1	3886.1	3817.2	3745.4	3705.0	3685.5
7.5°	4050.8	4185.5	4255.9	4287.3	4290.3	4236.4	4118.1	3983.4	3916.0	3890.6
10°	4300.8	4466.9	4559.7	4619.6	4598.7	4532.8	4371.1	4188.5	4103.2	4080.7
12.5°	4486.4	4645.1	4716.9	4755.8	4754.3	4718.4	4565.7	4368.1	4270.8	4248.4
15°	4606.1	4700.5	4704.9	4713.9	4739.4	4787.3	4707.9	4525.3	4417.5	4386.1
17.5°	4700.5	4663.0	4592.7	4568.7	4625.6	4758.8	4806.7	4658.5	4541.8	4514.8
20°	4760.3	4571.7	4447.5	4401.1	4466.9	4684.0	4866.6	4778.3	4657.0	4622.6
22.5°	4806.7	4486.4	4285.8	4254.4	4323.2	4603.1	4928.0	4920.5	4787.3	4739.4
25°	4880.1	4429.5	4172.0	4149.6	4213.9	4564.2	5010.3	5113.6	4995.4	4926.5
27.5°	4995.4	4423.5	4113.6	4106.2	4194.5	4598.7	5128.6	5396.5	5248.3	5197.4
30°	5155.5	4480.4	4127.1	4142.1	4249.9	4722.9	5312.7	5719.9	5571.7	5492.3
32.5°	5386.1	4633.1	4332.2	4396.6	4475.9	4922.0	5582.2	6070.2	5957.9	5841.1
35°	5689.9	5052.2	4938.5	5212.4	5137.6	5357.6	5907.0	6495.3	6359.1	6257.3
37.5°	6095.6	5911.5	6016.3	6393.5	6212.4	6180.9	6303.7	6881.5	6806.7	6704.9
40°	6664.5	6701.9	6895.0	7390.5	7128.5	6926.4	6790.2	7171.9	7197.4	7071.6
42.5°	7041.7	7213.8	7679.4	8242.3	7881.5	7398.0	7197.4	7543.2	7544.7	7430.9
45°	7182.4	7633.0	8606.0	9254.2	8650.9	7667.4	7421.9	8047.7	8032.7	7902.4
47.5°	7131.5	7986.3	9568.6	10559.5	9638.9	7859.0	7390.5	8766.2	8887.4	8689.8
50°	7025.2	8341.1	10692.8	12158.3	10851.5	8062.6	7342.6	9562.6	9763.2	9610.5
52.5°	7133.0	8736.3	12022.1	13810.9	12372.4	8387.5	7665.9	10585.0	10549.1	10364.9
55°	7474.3	9203.3	13637.3	15887.2	14043.0	8936.8	8496.7	11559.5	11194.3	10974.2
57.5°	7457.8	9537.1	15053.4	17529.4	15496.5	9387.4	8785.7	11662.8	10924.8	10646.4
60°	6769.2	9384.4	15592.3	18568.3	15935.1	9138.9	7835.1	10417.3	9218.3	8926.4
62.5°	5052.2	8327.6	14547.4	17267.4	14694.1	7893.5	5892.0	7477.3	6624.0	6131.5
65°	3231.9	6514.8	12230.2	13989.1	12111.9	6037.2	3508.9	4008.9	3140.6	2999.9
67.5°	1375.7	4598.7	9507.2	9350.0	9061.1	3911.6	1354.7	1128.7	841.3	826.3
70°	455.1	3128.6	5860.6	6236.3	5411.5	2694.5	447.6	378.7	377.2	363.8
72.5°	297.9	1679.6	3299.3	3673.5	3481.9	1550.8	270.9	253.0	259.0	253.0
75°	178.1	365.3	555.4	721.5	555.4	260.5	163.2	160.2	163.2	155.7
77.5°	104.8	101.8	98.8	98.8	97.3	89.8	82.3	79.3	80.8	82.3
80°	67.4	64.4	61.4	59.9	52.4	49.4	46.4	43.4	43.4	44.9
82.5°	43.4	40.4	37.4	32.9	26.9	22.5	21.0	18.0	18.0	19.5
85°	22.5	18.0	13.5	10.5	6.0	3.0	0.0	0.0	0.0	0.0
87.5°	4.5	0.0	0.0	0.0	0.0	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

(END OF REPORT)