

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: P636064

Luminaire Tested: GWS-SA3F-722-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-722-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14091.1 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

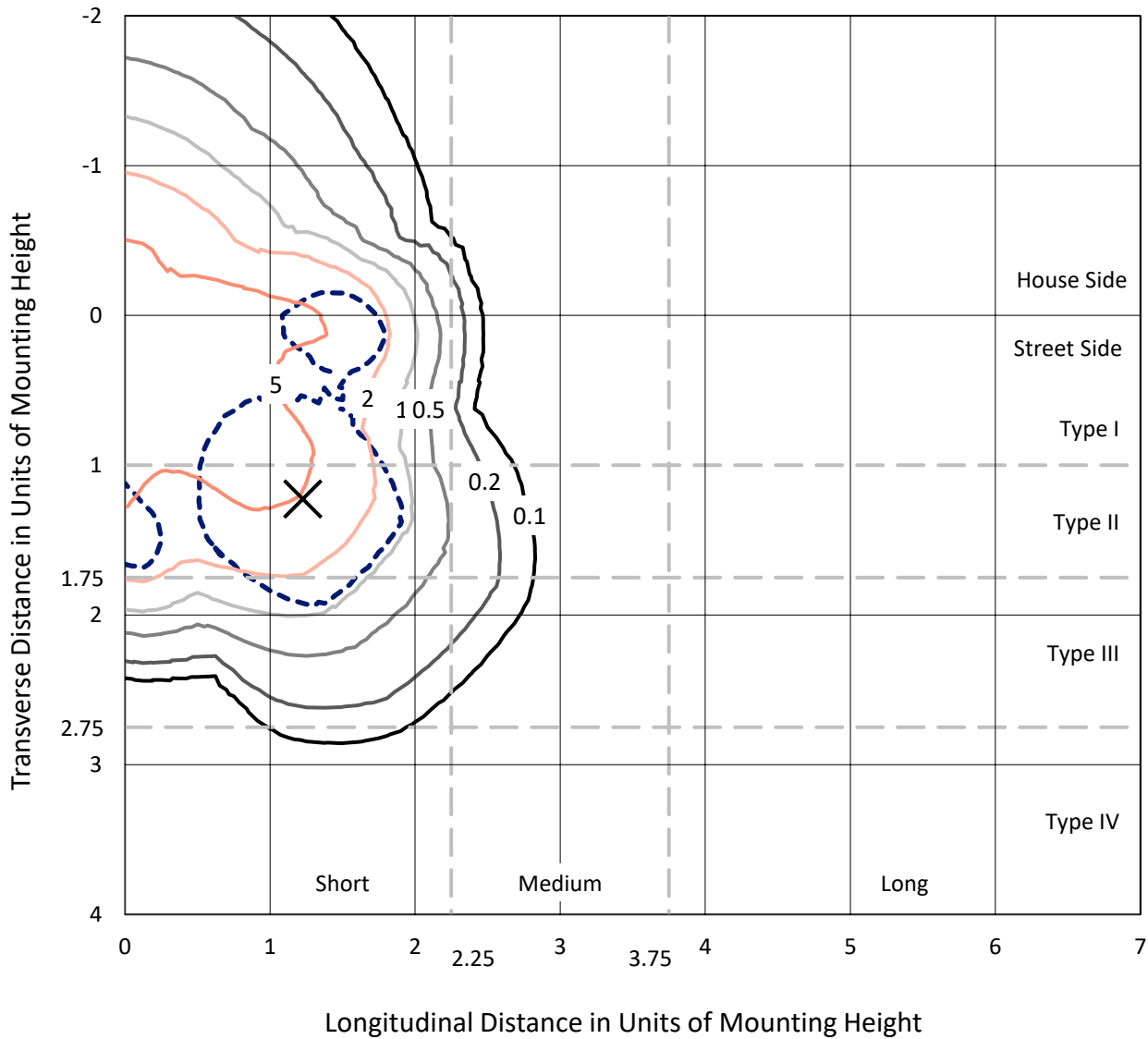
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

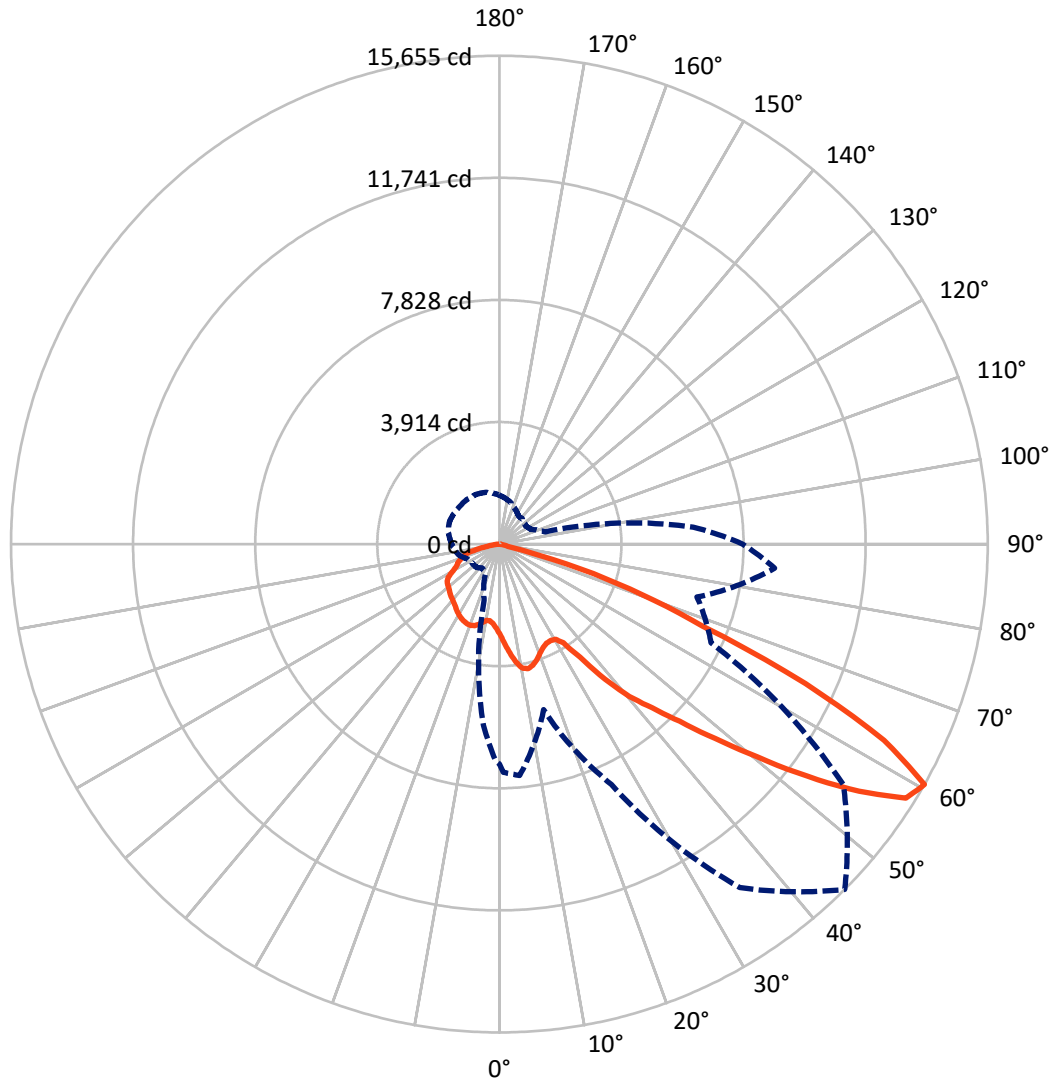
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4939.4	0.0	4939.4
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	9151.7	0.0	9151.7
	% Fixture	64.9	0.0	64.9
Total	Lumens	14091.1	0.0	14091.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.4	2.0
10°-20°	892.5	6.3
20°-30°	1449.7	10.3
30°-40°	2044.5	14.5
40°-50°	2825.5	20.1
50°-60°	3637.3	25.8
60°-70°	2304.6	16.4
70°-80°	591.4	4.2
80°-90°	63.2	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°	14091.1	100.0
0°-180°	14091.1	100.0

Coefficient of Utilization



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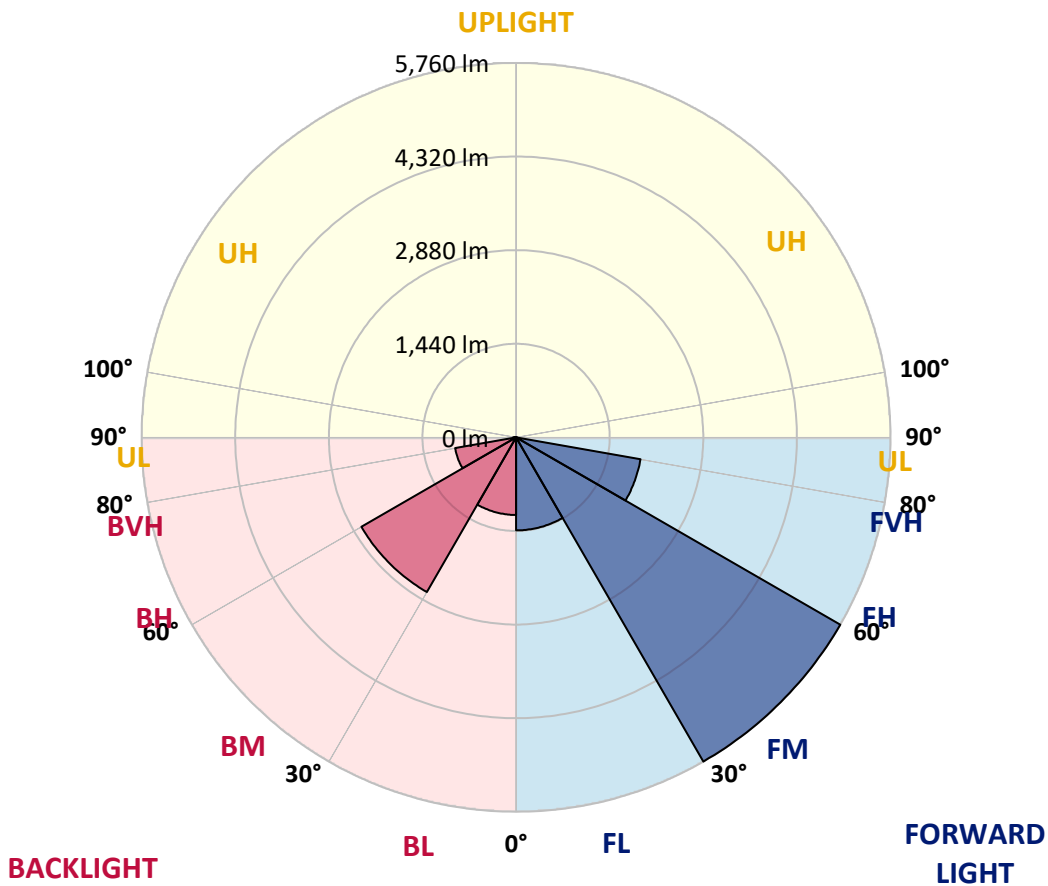
CATALOG NUMBER: GWS-SA3F-722-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1430.8	10.2			
FM (30°-60°)	5759.6	40.9			
FH (60°-80°)	1944.1	13.8			G2/5000
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	1193.8	8.5	B3/2500		
BM (30°-60°)	2747.7	19.5	B3/5000		
BH (60°-80°)	951.9	6.8	B2/1000		G2/1000
BVH (80°-90°)	46.1	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7
2.5°	3027.7	3048.4	3061.3	3085.8	3129.7	3154.2	3181.4	3151.7	3159.4	3155.5	3107.8
5°	3207.2	3231.7	3265.3	3337.6	3418.9	3464.1	3506.7	3500.3	3460.2	3393.1	3345.3
7.5°	3375.0	3403.4	3461.5	3579.0	3699.1	3768.8	3820.5	3786.9	3753.3	3647.5	3527.4
10°	3506.7	3523.5	3602.3	3759.8	3899.2	3978.0	4041.3	4033.5	3987.0	3868.2	3706.8
12.5°	3630.7	3642.3	3727.5	3885.0	4010.3	4045.1	4096.8	4113.6	4098.1	4009.0	3850.2
15°	3763.7	3785.6	3864.4	3984.4	4041.3	4005.1	4023.2	4069.7	4113.6	4113.6	3967.7
17.5°	3887.6	3907.0	3987.0	4038.7	3984.4	3888.9	3894.1	3953.5	4058.0	4167.8	4074.8
20°	3997.4	4015.4	4094.2	4045.1	3873.4	3734.0	3730.1	3802.4	3971.5	4202.6	4189.7
22.5°	4117.4	4143.3	4209.1	4050.3	3770.1	3593.2	3591.9	3666.8	3895.4	4237.5	4321.4
25°	4287.9	4327.9	4361.5	4095.5	3714.6	3501.6	3518.3	3589.4	3870.8	4294.3	4516.4
27.5°	4540.9	4573.2	4570.6	4189.7	3712.0	3464.1	3499.0	3581.6	3914.7	4395.0	4721.7
30°	4814.6	4831.4	4804.3	4321.4	3771.4	3487.4	3539.0	3637.1	4025.8	4561.6	5023.8
32.5°	5118.1	5138.7	5087.1	4519.0	3909.6	3659.1	3772.7	3820.5	4182.0	4801.7	5344.0
35°	5466.7	5506.7	5399.5	4779.8	4316.3	4285.3	4450.5	4388.6	4513.8	5085.8	5686.2
37.5°	5833.3	5834.6	5681.0	5165.8	5114.2	5167.1	5497.7	5304.0	5217.5	5402.1	6034.8
40°	6144.5	6136.8	5900.5	5686.2	5808.8	6019.3	6418.2	6121.3	5894.0	5826.9	6324.0
42.5°	6455.7	6427.3	6188.4	6016.7	6287.8	6720.4	7171.0	6806.9	6327.9	6212.9	6609.3
45°	6853.3	6844.3	6556.4	6148.4	6720.4	7505.4	8103.2	7513.1	6584.8	6437.6	7084.5
47.5°	7495.0	7451.1	6915.3	6138.1	7125.8	8551.2	9306.5	8402.7	6764.3	6442.8	7851.4
50°	8122.5	8068.3	7344.0	6136.8	7544.1	9635.7	10726.8	9483.4	6947.6	6473.8	8631.2
52.5°	8756.5	8756.5	8047.6	6282.7	7983.1	10846.8	12367.8	10830.0	7260.1	6879.2	9590.6
55°	9133.5	9234.2	8839.1	6529.3	8497.0	12272.2	13990.7	12283.9	7742.9	7611.2	10476.3
57.5°	8654.5	8843.0	8786.2	6357.5	8800.4	13319.3	15367.1	13386.5	7981.8	7697.7	10343.3
60°	7052.2	7314.3	7444.7	5489.9	8500.8	13440.7	15655.0	13458.8	7488.6	6555.1	8859.8
62.5°	4688.1	4903.7	5102.6	3922.5	7359.5	12091.5	13846.1	12095.4	6254.3	4892.1	6138.1
65°	2299.5	2459.6	2673.9	2318.9	5749.4	10103.1	10795.2	9773.9	4524.1	2738.5	3131.0
67.5°	601.7	646.9	676.6	899.9	4118.7	7258.8	7040.6	7149.0	2906.3	894.8	818.6
70°	312.5	315.0	313.7	371.8	2783.7	4613.2	4852.1	4489.3	2028.4	374.4	322.8
72.5°	223.4	224.7	220.8	250.5	1344.1	2643.0	2738.5	2708.8	1062.6	222.1	220.8
75°	145.9	147.2	144.6	147.2	202.7	300.8	277.6	291.8	176.9	140.7	140.7
77.5°	86.5	87.8	86.5	89.1	86.5	86.5	80.1	80.1	76.2	76.2	77.5
80°	58.1	58.1	56.8	59.4	54.2	54.2	51.6	50.4	46.5	45.2	45.2
82.5°	34.9	36.2	34.9	34.9	32.3	32.3	29.7	28.4	24.5	24.5	23.2
85°	18.1	18.1	16.8	16.8	14.2	12.9	10.3	10.3	7.7	6.5	6.5
87.5°	2.6	2.6	1.3	1.3	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7
2.5°	3094.9	3069.0	3030.3	2992.9	2958.0	2921.8	2880.5	2837.9	2801.8	2764.3	2745.0
5°	3282.1	3229.1	3128.4	3039.3	2959.3	2893.4	2822.4	2761.7	2704.9	2658.4	2635.2
7.5°	3451.2	3368.6	3216.2	3075.5	2967.0	2876.6	2778.5	2688.1	2612.0	2555.2	2533.2
10°	3607.4	3509.3	3309.2	3131.0	3004.5	2903.8	2783.7	2661.0	2560.3	2485.4	2467.4
12.5°	3734.0	3621.6	3382.8	3176.2	3026.4	2918.0	2812.1	2706.2	2606.8	2510.0	2494.5
15°	3846.3	3713.3	3438.3	3204.6	3018.7	2880.5	2791.4	2778.5	2778.5	2668.8	2637.8
17.5°	3943.1	3797.2	3483.5	3217.5	2969.6	2769.5	2715.3	2827.6	2954.1	2875.4	2805.6
20°	4054.2	3877.3	3520.9	3217.5	2879.2	2628.8	2623.6	2814.7	3001.9	3003.2	2929.6
22.5°	4166.5	3970.2	3564.8	3205.9	2755.3	2466.1	2561.6	2763.0	2929.6	3000.6	2950.2
25°	4348.5	4099.4	3634.5	3196.9	2610.7	2355.0	2506.1	2694.6	2835.3	2910.2	2877.9
27.5°	4579.7	4269.8	3740.4	3211.1	2467.4	2289.2	2446.7	2605.5	2733.3	2799.2	2775.9
30°	4837.9	4466.0	3854.0	3235.6	2364.1	2255.6	2375.7	2503.5	2617.1	2683.0	2672.6
32.5°	5167.1	4679.1	3952.2	3202.0	2306.0	2238.8	2300.8	2392.5	2502.2	2543.5	2552.6
35°	5560.9	4914.1	4027.1	3070.3	2253.0	2220.8	2219.5	2276.3	2353.7	2419.6	2426.0
37.5°	5923.7	5189.1	4109.7	2844.4	2157.5	2175.6	2123.9	2157.5	2233.7	2299.5	2325.3
40°	6282.7	5468.0	4224.6	2556.4	2032.2	2074.9	2014.2	2037.4	2098.1	2184.6	2225.9
42.5°	6631.3	5719.7	4346.0	2262.1	1907.0	1934.1	1888.9	1912.2	1975.4	2083.9	2130.4
45°	7010.9	6060.6	4440.2	1984.5	1798.6	1786.9	1750.8	1784.3	1879.9	1998.7	2054.2
47.5°	7728.7	6597.7	4502.2	1799.8	1740.5	1656.5	1615.2	1687.5	1796.0	1916.0	1983.2
50°	8605.4	7375.0	4484.1	1682.3	1690.1	1522.2	1508.0	1603.6	1719.8	1845.0	1918.6
52.5°	9300.0	8138.0	4278.8	1570.0	1592.0	1437.0	1395.7	1535.2	1646.2	1774.0	1850.2
55°	9830.7	8395.0	3648.7	1437.0	1431.9	1375.1	1288.6	1464.1	1572.6	1691.4	1774.0
57.5°	9398.2	7823.0	2704.9	1253.7	1222.7	1252.4	1168.5	1344.1	1482.2	1599.7	1673.3
60°	7799.7	6237.5	1506.8	1110.4	1022.6	1094.9	1082.0	1217.5	1384.1	1508.0	1571.3
62.5°	5294.9	4153.6	893.5	878.0	828.9	932.2	1000.6	1089.7	1253.7	1354.4	1413.8
65°	2639.1	2018.0	593.9	657.2	663.6	766.9	896.0	994.2	1131.0	1234.3	1293.7
67.5°	765.6	627.5	451.9	502.3	572.0	654.6	757.9	874.1	1007.1	1129.7	1199.5
70°	330.5	334.4	358.9	418.3	486.8	572.0	675.3	788.9	901.2	995.5	1048.4
72.5°	233.7	242.7	269.8	330.5	395.1	476.4	579.7	689.5	770.8	866.4	921.9
75°	149.8	156.2	178.2	224.7	272.4	351.2	449.3	550.0	633.9	702.4	755.3
77.5°	82.6	83.9	102.0	129.1	161.4	211.7	284.0	362.8	424.8	463.5	511.3
80°	47.8	47.8	56.8	73.6	93.0	123.9	164.0	202.7	240.2	264.7	287.9
82.5°	25.8	25.8	29.7	40.0	50.4	68.4	91.7	111.0	134.3	147.2	162.7
85°	7.7	7.7	10.3	14.2	18.1	25.8	36.2	46.5	56.8	65.8	74.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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°	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7
2.5°	2741.1	2723.0	2712.7	2699.8	2703.6	2692.0	2685.6	2689.4	2666.2	2689.4	2712.7
5°	2626.2	2600.3	2579.7	2562.9	2555.2	2539.7	2530.6	2530.6	2516.4	2539.7	2568.1
7.5°	2525.5	2504.8	2494.5	2484.1	2472.5	2458.3	2442.8	2437.7	2428.6	2453.2	2477.7
10°	2458.3	2460.9	2467.4	2481.6	2479.0	2469.9	2446.7	2433.8	2433.8	2462.2	2499.6
12.5°	2489.3	2516.4	2531.9	2557.7	2562.9	2555.2	2531.9	2521.6	2547.4	2590.0	2652.0
15°	2609.4	2627.5	2640.4	2661.0	2659.7	2653.3	2635.2	2643.0	2728.2	2810.8	2866.3
17.5°	2739.8	2719.1	2716.5	2729.5	2733.3	2725.6	2715.3	2750.1	2890.9	2968.3	2996.7
20°	2834.0	2763.0	2747.5	2752.7	2763.0	2759.2	2759.2	2816.0	2961.9	2998.0	2961.9
22.5°	2862.4	2761.7	2738.5	2739.8	2754.0	2755.3	2761.7	2821.1	2906.3	2907.6	2852.1
25°	2817.3	2720.4	2703.6	2706.2	2723.0	2721.7	2724.3	2757.9	2795.3	2779.8	2738.5
27.5°	2732.0	2648.1	2643.0	2657.2	2679.1	2667.5	2659.7	2668.8	2686.9	2667.5	2631.3
30°	2635.2	2564.2	2566.8	2593.9	2617.1	2597.8	2578.4	2583.6	2584.9	2564.2	2522.9
32.5°	2533.2	2480.3	2489.3	2517.7	2544.8	2524.2	2503.5	2500.9	2476.4	2451.9	2411.8
35°	2431.2	2410.5	2422.2	2445.4	2468.7	2451.9	2439.0	2431.2	2378.3	2342.1	2308.5
37.5°	2338.2	2353.7	2374.4	2388.6	2396.3	2395.1	2387.3	2369.2	2299.5	2256.9	2213.0
40°	2255.6	2303.4	2325.3	2331.8	2343.4	2340.8	2339.5	2313.7	2222.0	2176.9	2126.5
42.5°	2180.7	2247.9	2285.3	2291.8	2298.2	2299.5	2295.6	2258.2	2153.6	2100.7	2052.9
45°	2108.4	2196.2	2244.0	2237.5	2246.6	2246.6	2250.4	2201.4	2086.5	2032.2	1981.9
47.5°	2045.2	2148.4	2192.3	2184.6	2189.8	2193.6	2197.5	2140.7	2012.9	1961.2	1909.6
50°	1987.1	2096.8	2134.2	2136.8	2136.8	2145.9	2144.6	2089.1	1950.9	1895.4	1843.7
52.5°	1925.1	2043.9	2083.9	2100.7	2105.8	2109.7	2091.6	2027.1	1887.6	1820.5	1772.7
55°	1852.8	1989.6	2025.8	2047.7	2058.1	2055.5	2031.0	1965.1	1823.1	1755.9	1701.7
57.5°	1743.0	1873.4	1925.1	1935.4	1952.2	1941.9	1913.5	1857.9	1719.8	1652.7	1597.1
60°	1623.0	1717.2	1758.5	1767.6	1754.7	1758.5	1754.7	1701.7	1581.6	1528.7	1471.9
62.5°	1465.4	1549.4	1593.3	1604.9	1582.9	1597.1	1592.0	1526.1	1406.0	1350.5	1300.2
65°	1346.7	1438.3	1490.0	1496.4	1490.0	1496.4	1478.3	1398.3	1284.7	1227.9	1176.2
67.5°	1253.7	1347.9	1402.2	1420.2	1413.8	1412.5	1384.1	1291.1	1173.6	1111.7	1045.8
70°	1093.6	1176.2	1245.9	1289.8	1289.8	1265.3	1211.1	1124.6	1030.3	977.4	925.7
72.5°	968.4	1072.9	1141.4	1186.6	1195.6	1181.4	1105.2	1013.5	905.1	852.1	797.9
75°	797.9	899.9	973.5	1032.9	1044.5	1029.0	941.2	850.9	750.1	698.5	644.3
77.5°	533.2	593.9	653.3	707.5	695.9	706.3	646.9	578.4	516.5	477.7	453.2
80°	300.8	340.9	358.9	388.6	388.6	388.6	349.9	317.6	282.8	260.8	236.3
82.5°	170.4	196.3	204.0	228.5	235.0	236.3	210.5	189.8	167.8	156.2	139.4
85°	78.8	93.0	94.3	108.5	113.6	123.9	112.3	98.1	85.2	80.1	69.7
87.5°	2.6	7.7	10.3	19.4	25.8	29.7	32.3	32.3	27.1	24.5	20.7
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: P636064

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7
2.5°	2741.1	2772.1	2808.2	2834.0	2880.5	2919.3	2959.3	3003.2	3035.5	3027.7
5°	2602.9	2654.6	2720.4	2781.1	2867.6	2955.4	3052.2	3151.7	3209.8	3207.2
7.5°	2525.5	2599.1	2679.1	2760.4	2862.4	2989.0	3137.5	3292.4	3371.2	3375.0
10°	2566.8	2645.5	2699.8	2768.2	2875.4	3034.2	3212.3	3398.3	3488.6	3506.7
12.5°	2697.2	2690.7	2686.9	2735.9	2865.0	3066.4	3284.6	3506.7	3608.7	3630.7
15°	2821.1	2688.1	2608.1	2641.7	2818.5	3087.1	3355.7	3625.5	3740.4	3763.7
17.5°	2844.4	2643.0	2494.5	2517.7	2745.0	3093.6	3424.1	3741.7	3865.7	3887.6
20°	2779.8	2584.9	2411.8	2379.6	2652.0	3076.8	3466.7	3838.5	3974.1	3997.4
22.5°	2698.5	2533.2	2349.9	2265.9	2538.4	3060.0	3514.5	3940.5	4096.8	4117.4
25°	2613.3	2467.4	2291.8	2163.9	2409.3	3049.7	3594.5	4074.8	4263.3	4287.9
27.5°	2522.9	2387.3	2241.4	2114.9	2290.5	3062.6	3708.1	4291.7	4506.1	4540.9
30°	2426.0	2307.3	2209.1	2098.1	2209.1	3074.2	3833.4	4513.8	4765.6	4814.6
32.5°	2325.3	2233.7	2175.6	2105.8	2158.8	3047.1	3943.1	4763.0	5075.5	5118.1
35°	2224.6	2158.8	2133.0	2120.0	2091.6	2947.7	4032.2	5014.8	5429.2	5466.7
37.5°	2130.4	2081.3	2073.6	2087.8	1988.3	2785.0	4135.5	5335.0	5776.5	5833.3
40°	2042.6	1997.4	1996.1	1993.5	1874.7	2562.9	4274.9	5660.3	6118.7	6144.5
42.5°	1961.2	1904.4	1914.8	1883.8	1781.8	2322.8	4406.6	5937.9	6437.6	6455.7
45°	1888.9	1814.0	1825.7	1786.9	1737.9	2071.0	4522.8	6265.9	6841.7	6853.3
47.5°	1819.2	1739.2	1706.9	1704.3	1730.1	1838.6	4636.5	6897.2	7474.4	7495.0
50°	1754.7	1668.1	1576.5	1633.3	1682.3	1664.3	4778.5	7573.8	8127.7	8122.5
52.5°	1692.7	1579.1	1448.7	1558.4	1558.4	1535.2	4738.5	7984.4	8667.4	8756.5
55°	1621.7	1435.7	1315.7	1433.2	1376.4	1419.0	4029.6	8118.7	9007.0	9133.5
57.5°	1480.9	1258.9	1154.3	1217.5	1132.3	1315.7	2894.7	7452.4	8429.8	8654.5
60°	1345.4	1128.5	1060.0	1048.4	937.4	1072.9	1876.0	5834.6	6938.6	7052.2
62.5°	1186.6	1016.1	958.0	868.9	754.0	781.1	1136.2	3839.8	4662.3	4688.1
65°	1066.5	920.6	809.5	703.7	617.2	566.8	671.4	1851.5	2330.5	2299.5
67.5°	915.4	788.9	683.0	606.8	535.8	472.6	446.7	550.0	622.3	601.7
70°	814.7	693.3	591.3	519.0	453.2	389.9	344.7	324.1	317.6	312.5
72.5°	702.4	596.5	490.6	420.9	358.9	300.8	259.5	235.0	228.5	223.4
75°	560.4	460.9	364.1	298.3	244.0	202.7	175.6	154.9	151.1	145.9
77.5°	370.6	295.7	216.9	176.9	144.6	122.7	104.6	91.7	89.1	86.5
80°	204.0	170.4	133.0	107.2	86.5	74.9	68.4	60.7	59.4	58.1
82.5°	121.4	102.0	76.2	60.7	50.4	45.2	41.3	37.4	36.2	34.9
85°	60.7	47.8	33.6	28.4	25.8	23.2	23.2	19.4	18.1	18.1
87.5°	15.5	12.9	7.7	6.5	6.5	6.5	5.2	3.9	3.9	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)