

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: P639529

Luminaire Tested: GWS-SA5C-722-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639529
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-SA5C-722-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13723.3 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

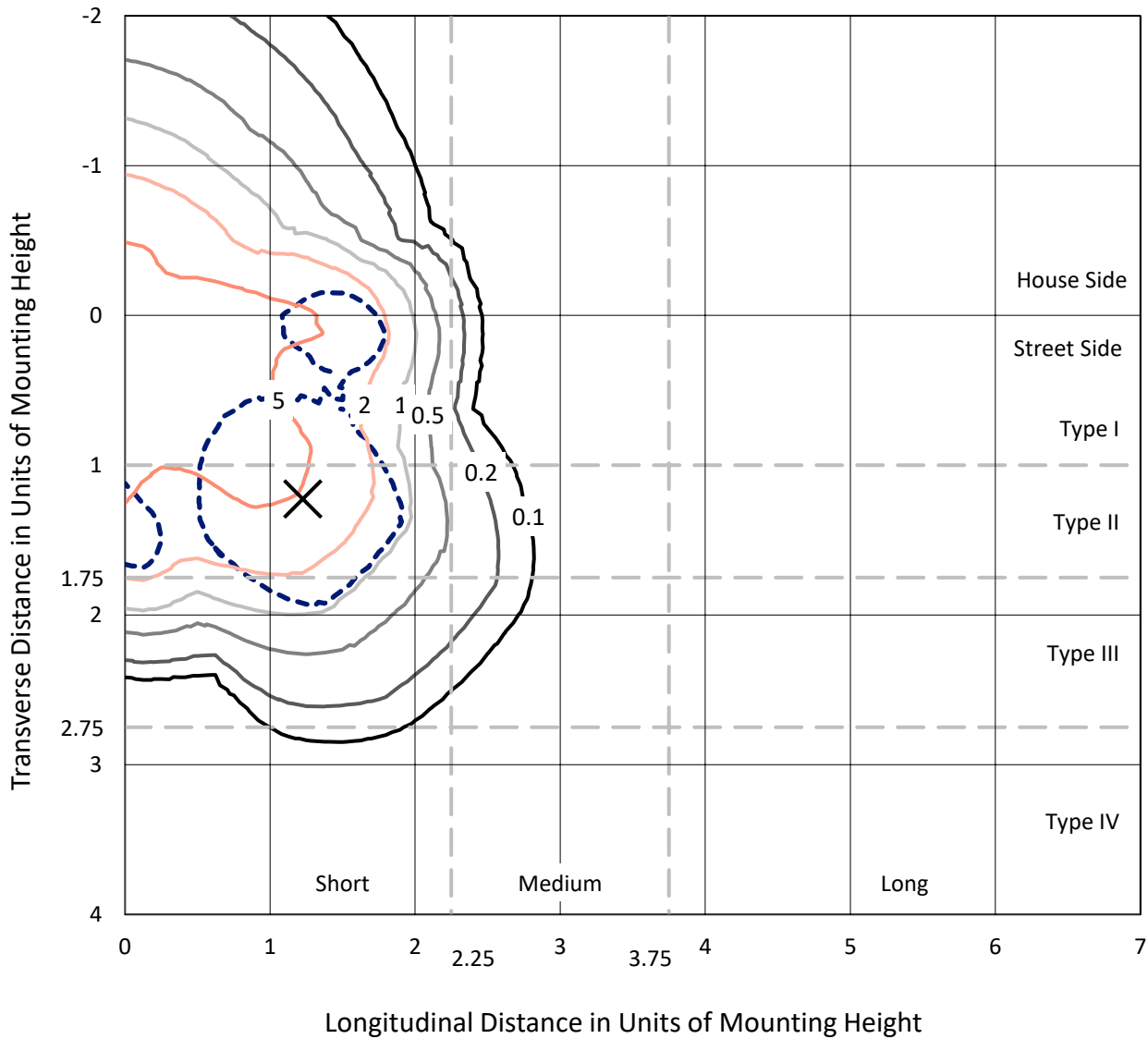
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

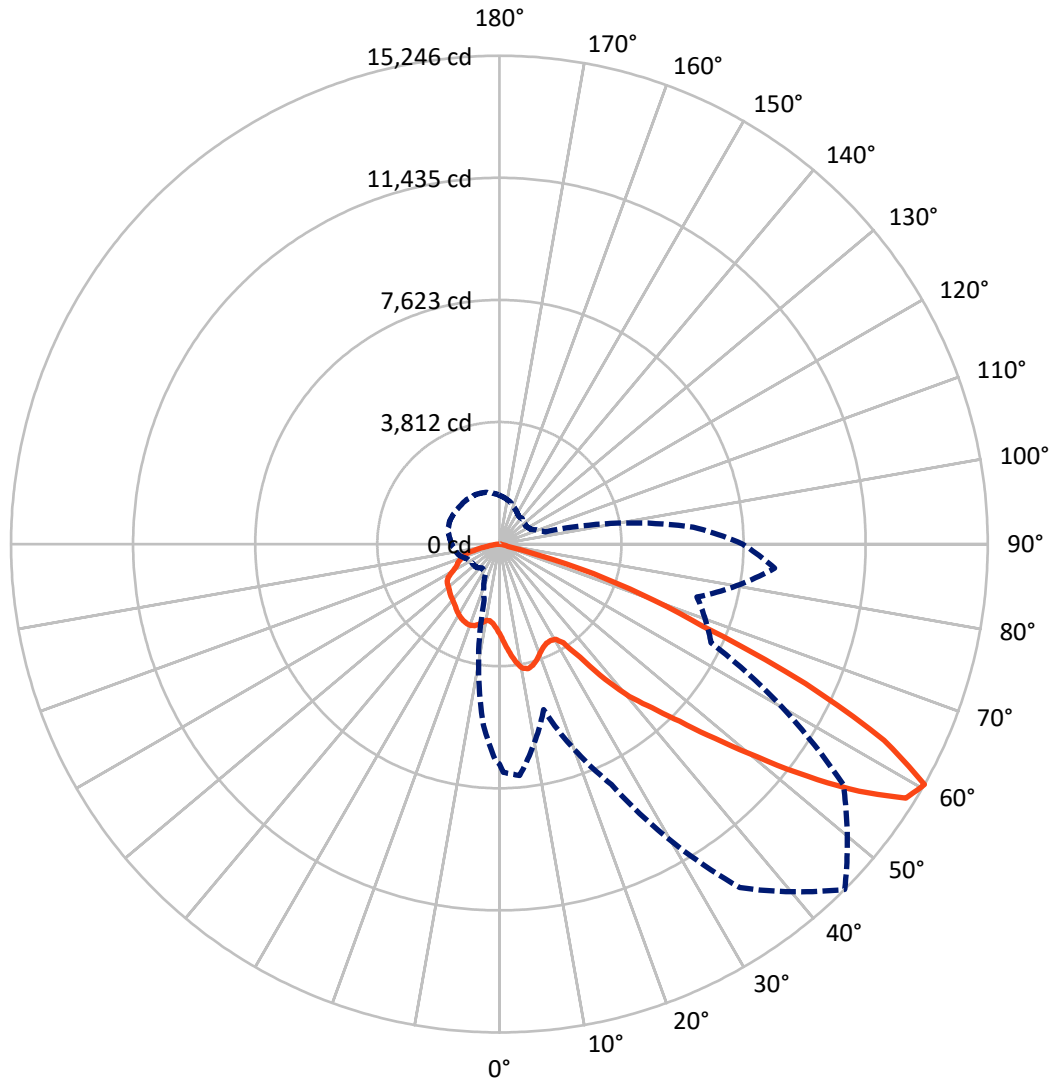
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 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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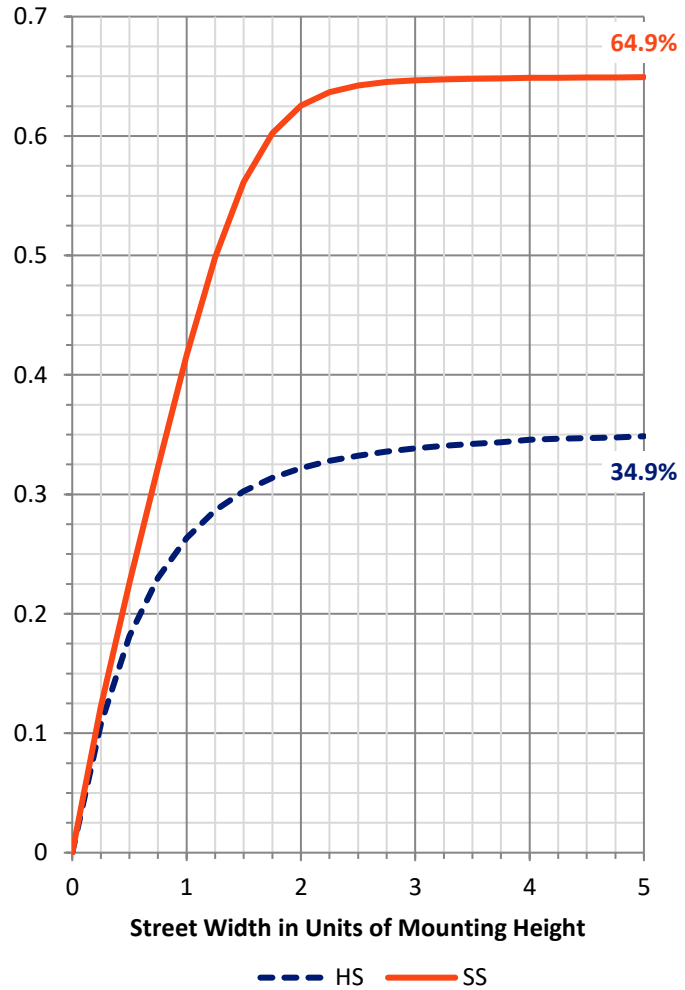
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4810.5	0.0	4810.5
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	8912.8	0.0	8912.8
	% Fixture	64.9	0.0	64.9
Total	Lumens	13723.3	0.0	13723.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.1	2.0
10°-20°	869.2	6.3
20°-30°	1411.9	10.3
30°-40°	1991.2	14.5
40°-50°	2751.7	20.1
50°-60°	3542.3	25.8
60°-70°	2244.4	16.4
70°-80°	575.9	4.2
80°-90°	61.6	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°	13723.3	100.0
0°-180°	13723.3	100.0

Coefficient of Utilization



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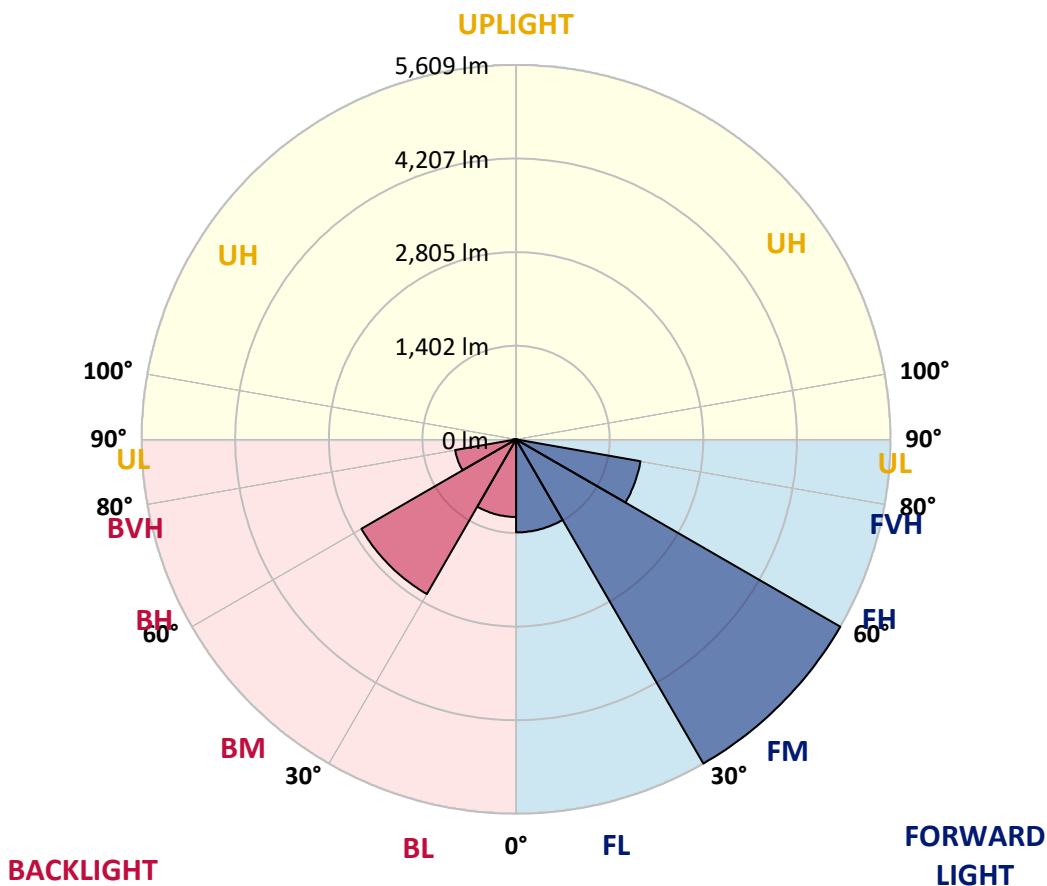
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1393.4	10.2			
FM (30°-60°)	5609.3	40.9			
FH (60°-80°)	1893.3	13.8			G2/5000
FVH (80°-90°)	16.7	0.1			G1/100
BL (0°-30°)	1162.7	8.5	B3/2500		
BM (30°-60°)	2675.9	19.5	B3/5000		
BH (60°-80°)	927.0	6.8	B2/1000		G2/1000
BVH (80°-90°)	44.9	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°	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2
2.5°	2948.7	2968.8	2981.4	3005.3	3048.0	3071.9	3098.3	3069.4	3076.9	3073.2	3026.6
5°	3123.5	3147.4	3180.1	3250.5	3329.7	3373.7	3415.2	3408.9	3369.9	3304.5	3258.0
7.5°	3286.9	3314.6	3371.2	3485.6	3602.5	3670.5	3720.7	3688.1	3655.4	3552.3	3435.3
10°	3415.2	3431.5	3508.2	3661.6	3797.5	3874.2	3935.8	3928.2	3883.0	3767.3	3610.1
12.5°	3535.9	3547.2	3630.2	3783.6	3905.6	3939.5	3989.8	4006.2	3991.1	3904.3	3749.7
15°	3665.4	3686.8	3763.5	3880.4	3935.8	3900.6	3918.2	3963.4	4006.2	4006.2	3864.1
17.5°	3786.1	3805.0	3883.0	3933.3	3880.4	3787.4	3792.4	3850.3	3952.1	4059.0	3968.5
20°	3893.0	3910.6	3987.3	3939.5	3772.3	3636.5	3632.7	3703.1	3867.9	4092.9	4080.4
22.5°	4010.0	4035.1	4099.2	3944.6	3671.7	3499.4	3498.2	3571.1	3793.7	4126.9	4208.6
25°	4175.9	4214.9	4247.6	3988.6	3617.6	3410.2	3426.5	3495.7	3769.8	4182.2	4398.5
27.5°	4422.4	4453.8	4451.3	4080.4	3615.1	3373.7	3407.6	3488.1	3812.5	4280.3	4598.4
30°	4689.0	4705.3	4678.9	4208.6	3673.0	3396.3	3446.6	3542.2	3920.7	4442.5	4892.7
32.5°	4984.5	5004.6	4954.3	4401.0	3807.5	3563.6	3674.2	3720.7	4072.8	4676.4	5204.5
35°	5324.0	5363.0	5258.6	4655.0	4203.6	4173.4	4334.4	4274.0	4396.0	4953.0	5537.7
37.5°	5681.1	5682.3	5532.7	5031.0	4980.7	5032.3	5354.2	5165.5	5081.3	5261.1	5877.2
40°	5984.1	5976.6	5746.5	5537.7	5657.2	5862.2	6250.7	5961.5	5740.2	5674.8	6158.9
42.5°	6287.2	6259.5	6026.9	5859.6	6123.7	6544.9	6983.8	6629.2	6162.7	6050.8	6436.8
45°	6674.5	6665.7	6385.3	5987.9	6544.9	7309.5	7891.7	7317.0	6412.9	6269.6	6899.5
47.5°	7299.4	7256.7	6734.8	5977.8	6939.8	8328.0	9063.6	8183.4	6587.7	6274.6	7646.5
50°	7910.5	7857.7	7152.3	5976.6	7347.2	9384.2	10446.8	9235.9	6766.3	6304.8	8405.9
52.5°	8527.9	8527.9	7837.6	6118.7	7774.7	10563.7	12045.0	10547.4	7070.6	6699.6	9340.2
55°	8895.1	8993.2	8608.4	6358.8	8275.2	11951.9	13625.6	11963.2	7540.8	7412.6	10202.8
57.5°	8428.6	8612.2	8556.8	6191.6	8570.7	12971.7	14966.0	13037.1	7773.5	7496.8	10073.3
60°	6868.1	7123.4	7250.4	5346.6	8278.9	13089.9	15246.4	13107.5	7293.1	6384.0	8628.5
62.5°	4565.7	4775.7	4969.4	3820.1	7167.4	11775.9	13484.7	11779.6	6091.0	4764.4	5977.8
65°	2239.5	2395.4	2604.1	2258.4	5599.4	9839.4	10513.4	9518.8	4406.1	2667.0	3049.3
67.5°	586.0	630.0	658.9	876.4	4011.2	7069.3	6856.8	6962.4	2830.5	871.4	797.2
70°	304.3	306.8	305.6	362.1	2711.0	4492.8	4725.4	4372.1	1975.4	364.7	314.4
72.5°	217.5	218.8	215.0	243.9	1309.0	2574.0	2667.0	2638.1	1034.9	216.3	215.0
75°	142.1	143.3	140.8	143.3	197.4	293.0	270.3	284.2	172.3	137.1	137.1
77.5°	84.2	85.5	84.2	86.8	84.2	84.2	78.0	78.0	74.2	74.2	75.4
80°	56.6	56.6	55.3	57.8	52.8	52.8	50.3	49.0	45.3	44.0	44.0
82.5°	34.0	35.2	34.0	34.0	31.4	31.4	28.9	27.7	23.9	23.9	22.6
85°	17.6	17.6	16.3	16.3	13.8	12.6	10.1	10.1	7.5	6.3	6.3
87.5°	2.5	2.5	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°	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2
2.5°	3014.1	2988.9	2951.2	2914.7	2880.8	2845.6	2805.3	2763.8	2728.6	2692.2	2673.3
5°	3196.4	3144.8	3046.8	2960.0	2882.0	2817.9	2748.8	2689.7	2634.3	2589.1	2566.4
7.5°	3361.1	3280.6	3132.3	2995.2	2889.6	2801.6	2706.0	2618.0	2543.8	2488.5	2467.1
10°	3513.3	3417.7	3222.8	3049.3	2926.0	2828.0	2711.0	2591.6	2493.5	2420.6	2403.0
12.5°	3636.5	3527.1	3294.5	3093.3	2947.4	2841.8	2738.7	2635.6	2538.8	2444.5	2429.4
15°	3745.9	3616.4	3348.5	3121.0	2939.9	2805.3	2718.6	2706.0	2706.0	2599.1	2568.9
17.5°	3840.2	3698.1	3392.6	3133.5	2892.1	2697.2	2644.4	2753.8	2877.0	2800.3	2732.4
20°	3948.3	3776.1	3429.0	3133.5	2804.1	2560.1	2555.1	2741.2	2923.5	2924.8	2853.1
22.5°	4057.7	3866.6	3471.8	3122.2	2683.4	2401.7	2494.7	2690.9	2853.1	2922.3	2873.2
25°	4235.0	3992.4	3539.7	3113.4	2542.5	2293.6	2440.7	2624.3	2761.3	2834.3	2802.8
27.5°	4460.1	4158.3	3642.8	3127.2	2403.0	2229.4	2382.8	2537.5	2662.0	2726.1	2703.5
30°	4711.6	4349.5	3753.4	3151.1	2302.4	2196.7	2313.7	2438.2	2548.8	2612.9	2602.9
32.5°	5032.3	4556.9	3849.0	3118.4	2245.8	2180.4	2240.7	2330.0	2436.9	2477.1	2485.9
35°	5415.8	4785.8	3921.9	2990.2	2194.2	2162.8	2161.5	2216.9	2292.3	2356.4	2362.7
37.5°	5769.1	5053.6	4002.4	2770.1	2101.2	2118.8	2068.5	2101.2	2175.4	2239.5	2264.6
40°	6118.7	5325.2	4114.3	2489.7	1979.2	2020.7	1961.6	1984.2	2043.3	2127.6	2167.8
42.5°	6458.2	5570.4	4232.5	2203.0	1857.2	1883.6	1839.6	1862.3	1923.9	2029.5	2074.8
45°	6827.9	5902.4	4324.3	1932.7	1751.6	1740.3	1705.1	1737.8	1830.8	1946.5	2000.6
47.5°	7527.0	6425.5	4384.7	1752.9	1695.0	1613.3	1573.1	1643.5	1749.1	1866.0	1931.4
50°	8380.8	7182.5	4367.1	1638.4	1646.0	1482.5	1468.7	1561.7	1674.9	1796.9	1868.5
52.5°	9057.3	7925.6	4167.1	1529.0	1550.4	1399.5	1359.3	1495.1	1603.2	1727.7	1801.9
55°	9574.1	8175.8	3553.5	1399.5	1394.5	1339.2	1254.9	1425.9	1531.6	1647.2	1727.7
57.5°	9152.9	7618.8	2634.3	1221.0	1190.8	1219.7	1138.0	1309.0	1443.5	1558.0	1629.6
60°	7596.2	6074.7	1467.4	1081.4	995.9	1066.3	1053.7	1185.8	1348.0	1468.7	1530.3
62.5°	5156.7	4045.2	870.1	855.1	807.3	907.9	974.5	1061.3	1221.0	1319.0	1376.9
65°	2570.2	1965.4	578.4	640.0	646.3	746.9	872.7	968.2	1101.5	1202.1	1259.9
67.5°	745.7	611.1	440.1	489.1	557.0	637.5	738.1	851.3	980.8	1100.3	1168.2
70°	321.9	325.7	349.6	407.4	474.1	557.0	657.6	768.3	877.7	969.5	1021.0
72.5°	227.6	236.4	262.8	321.9	384.8	464.0	564.6	671.5	750.7	843.7	897.8
75°	145.9	152.1	173.5	218.8	265.3	342.0	437.6	535.7	617.4	684.0	735.6
77.5°	80.5	81.7	99.3	125.7	157.2	206.2	276.6	353.3	413.7	451.4	497.9
80°	46.5	46.5	55.3	71.7	90.5	120.7	159.7	197.4	233.9	257.8	280.4
82.5°	25.1	25.1	28.9	39.0	49.0	66.6	89.3	108.1	130.8	143.3	158.4
85°	7.5	7.5	10.1	13.8	17.6	25.1	35.2	45.3	55.3	64.1	72.9
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°	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2
2.5°	2669.5	2651.9	2641.9	2629.3	2633.1	2621.8	2615.5	2619.2	2596.6	2619.2	2641.9
5°	2557.6	2532.5	2512.4	2496.0	2488.5	2473.4	2464.6	2464.6	2450.7	2473.4	2501.0
7.5°	2459.5	2439.4	2429.4	2419.3	2408.0	2394.2	2379.1	2374.0	2365.2	2389.1	2413.0
10°	2394.2	2396.7	2403.0	2416.8	2414.3	2405.5	2382.8	2370.3	2370.3	2397.9	2434.4
12.5°	2424.3	2450.7	2465.8	2491.0	2496.0	2488.5	2465.8	2455.8	2480.9	2522.4	2582.8
15°	2541.3	2558.9	2571.5	2591.6	2590.3	2584.0	2566.4	2574.0	2657.0	2737.4	2791.5
17.5°	2668.3	2648.2	2645.6	2658.2	2662.0	2654.4	2644.4	2678.3	2815.4	2890.8	2918.5
20°	2760.1	2690.9	2675.8	2680.9	2690.9	2687.1	2687.1	2742.5	2884.6	2919.8	2884.6
22.5°	2787.7	2689.7	2667.0	2668.3	2682.1	2683.4	2689.7	2747.5	2830.5	2831.7	2777.7
25°	2743.7	2649.4	2633.1	2635.6	2651.9	2650.7	2653.2	2685.9	2722.3	2707.3	2667.0
27.5°	2660.7	2579.0	2574.0	2587.8	2609.2	2597.9	2590.3	2599.1	2616.7	2597.9	2562.7
30°	2566.4	2497.3	2499.8	2526.2	2548.8	2530.0	2511.1	2516.1	2517.4	2497.3	2457.0
32.5°	2467.1	2415.5	2424.3	2452.0	2478.4	2458.3	2438.2	2435.7	2411.8	2387.9	2348.9
35°	2367.7	2347.6	2358.9	2381.6	2404.2	2387.9	2375.3	2367.7	2316.2	2281.0	2248.3
37.5°	2277.2	2292.3	2312.4	2326.3	2333.8	2332.5	2325.0	2307.4	2239.5	2198.0	2155.2
40°	2196.7	2243.3	2264.6	2270.9	2282.2	2279.7	2278.5	2253.3	2164.0	2120.0	2071.0
42.5°	2123.8	2189.2	2225.7	2231.9	2238.2	2239.5	2235.7	2199.3	2097.4	2045.8	1999.3
45°	2053.4	2138.9	2185.4	2179.1	2187.9	2187.9	2191.7	2143.9	2032.0	1979.2	1930.2
47.5°	1991.8	2092.4	2135.1	2127.6	2132.6	2136.4	2140.2	2084.8	1960.3	1910.0	1859.7
50°	1935.2	2042.1	2078.5	2081.1	2081.1	2089.9	2088.6	2034.5	1900.0	1845.9	1795.6
52.5°	1874.8	1990.5	2029.5	2045.8	2050.9	2054.6	2037.0	1974.2	1838.4	1773.0	1726.5
55°	1804.4	1937.7	1972.9	1994.3	2004.4	2001.8	1977.9	1913.8	1775.5	1710.1	1657.3
57.5°	1697.5	1824.5	1874.8	1884.9	1901.2	1891.2	1863.5	1809.4	1674.9	1609.5	1555.4
60°	1580.6	1672.4	1712.6	1721.4	1708.9	1712.6	1708.9	1657.3	1540.4	1488.8	1433.5
62.5°	1427.2	1508.9	1551.7	1563.0	1541.6	1555.4	1550.4	1486.3	1369.3	1315.3	1266.2
65°	1311.5	1400.8	1451.1	1457.4	1451.1	1457.4	1439.8	1361.8	1251.1	1195.8	1145.5
67.5°	1221.0	1312.8	1365.6	1383.2	1376.9	1375.6	1348.0	1257.4	1143.0	1082.7	1018.5
70°	1065.0	1145.5	1213.4	1256.2	1256.2	1232.3	1179.5	1095.2	1003.4	951.9	901.6
72.5°	943.1	1044.9	1111.6	1155.6	1164.4	1150.6	1076.4	987.1	881.5	829.9	777.1
75°	777.1	876.4	948.1	1005.9	1017.3	1002.2	916.7	828.6	730.6	680.3	627.5
77.5°	519.3	578.4	636.3	689.1	677.8	687.8	630.0	563.3	503.0	465.3	441.4
80°	293.0	332.0	349.6	378.5	378.5	378.5	340.8	309.3	275.4	254.0	230.1
82.5°	166.0	191.1	198.7	222.6	228.9	230.1	205.0	184.8	163.5	152.1	135.8
85°	76.7	90.5	91.8	105.6	110.7	120.7	109.4	95.6	83.0	78.0	67.9
87.5°	2.5	7.5	10.1	18.9	25.1	28.9	31.4	31.4	26.4	23.9	20.1
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°	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2
2.5°	2669.5	2699.7	2734.9	2760.1	2805.3	2843.1	2882.0	2924.8	2956.2	2948.7
5°	2535.0	2585.3	2649.4	2708.5	2792.8	2878.3	2972.6	3069.4	3126.0	3123.5
7.5°	2459.5	2531.2	2609.2	2688.4	2787.7	2911.0	3055.6	3206.5	3283.2	3286.9
10°	2499.8	2576.5	2629.3	2695.9	2800.3	2955.0	3128.5	3309.6	3397.6	3415.2
12.5°	2626.8	2620.5	2616.7	2664.5	2790.2	2986.4	3198.9	3415.2	3514.5	3535.9
15°	2747.5	2618.0	2540.0	2572.7	2745.0	3006.5	3268.1	3530.9	3642.8	3665.4
17.5°	2770.1	2574.0	2429.4	2452.0	2673.3	3012.8	3334.7	3644.0	3764.8	3786.1
20°	2707.3	2517.4	2348.9	2317.5	2582.8	2996.5	3376.2	3738.4	3870.4	3893.0
22.5°	2628.0	2467.1	2288.5	2206.8	2472.1	2980.1	3422.7	3837.7	3989.8	4010.0
25°	2545.0	2403.0	2231.9	2107.5	2346.4	2970.1	3500.7	3968.5	4152.0	4175.9
27.5°	2457.0	2325.0	2182.9	2059.7	2230.7	2982.6	3611.4	4179.7	4388.4	4422.4
30°	2362.7	2247.0	2151.5	2043.3	2151.5	2994.0	3733.3	4396.0	4641.2	4689.0
32.5°	2264.6	2175.4	2118.8	2050.9	2102.4	2967.5	3840.2	4638.7	4943.0	4984.5
35°	2166.6	2102.4	2077.3	2064.7	2037.0	2870.7	3927.0	4883.9	5287.5	5324.0
37.5°	2074.8	2027.0	2019.4	2033.3	1936.4	2712.3	4027.6	5195.7	5625.8	5681.1
40°	1989.3	1945.3	1944.0	1941.5	1825.8	2496.0	4163.4	5512.6	5959.0	5984.1
42.5°	1910.0	1854.7	1864.8	1834.6	1735.3	2262.1	4291.6	5782.9	6269.6	6287.2
45°	1839.6	1766.7	1778.0	1740.3	1692.5	2016.9	4404.8	6102.3	6663.1	6674.5
47.5°	1771.7	1693.8	1662.3	1659.8	1685.0	1790.6	4515.4	6717.2	7279.3	7299.4
50°	1708.9	1624.6	1535.3	1590.7	1638.4	1620.8	4653.8	7376.1	7915.5	7910.5
52.5°	1648.5	1537.8	1410.8	1517.7	1517.7	1495.1	4614.8	7776.0	8441.2	8527.9
55°	1579.3	1398.3	1281.3	1395.8	1340.4	1381.9	3924.5	7906.7	8771.9	8895.1
57.5°	1442.3	1226.0	1124.1	1185.8	1102.8	1281.3	2819.2	7257.9	8209.8	8428.6
60°	1310.2	1099.0	1032.4	1021.0	912.9	1044.9	1827.1	5682.3	6757.5	6868.1
62.5°	1155.6	989.6	933.0	846.3	734.3	760.7	1106.5	3739.6	4540.6	4565.7
65°	1038.6	896.6	788.4	685.3	601.1	552.0	653.9	1803.2	2269.7	2239.5
67.5°	891.5	768.3	665.2	591.0	521.8	460.2	435.1	535.7	606.1	586.0
70°	793.4	675.2	575.9	505.5	441.4	379.7	335.7	315.6	309.3	304.3
72.5°	684.0	580.9	477.8	409.9	349.6	293.0	252.7	228.9	222.6	217.5
75°	545.7	448.9	354.6	290.5	237.7	197.4	171.0	150.9	147.1	142.1
77.5°	360.9	288.0	211.2	172.3	140.8	119.5	101.9	89.3	86.8	84.2
80°	198.7	166.0	129.5	104.4	84.2	72.9	66.6	59.1	57.8	56.6
82.5°	118.2	99.3	74.2	59.1	49.0	44.0	40.2	36.5	35.2	34.0
85°	59.1	46.5	32.7	27.7	25.1	22.6	22.6	18.9	17.6	17.6
87.5°	15.1	12.6	7.5	6.3	6.3	6.3	5.0	3.8	3.8	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)