

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: P639360

Luminaire Tested: GWS-SA5B-760-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639360
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-SA5B-760-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13943.7 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

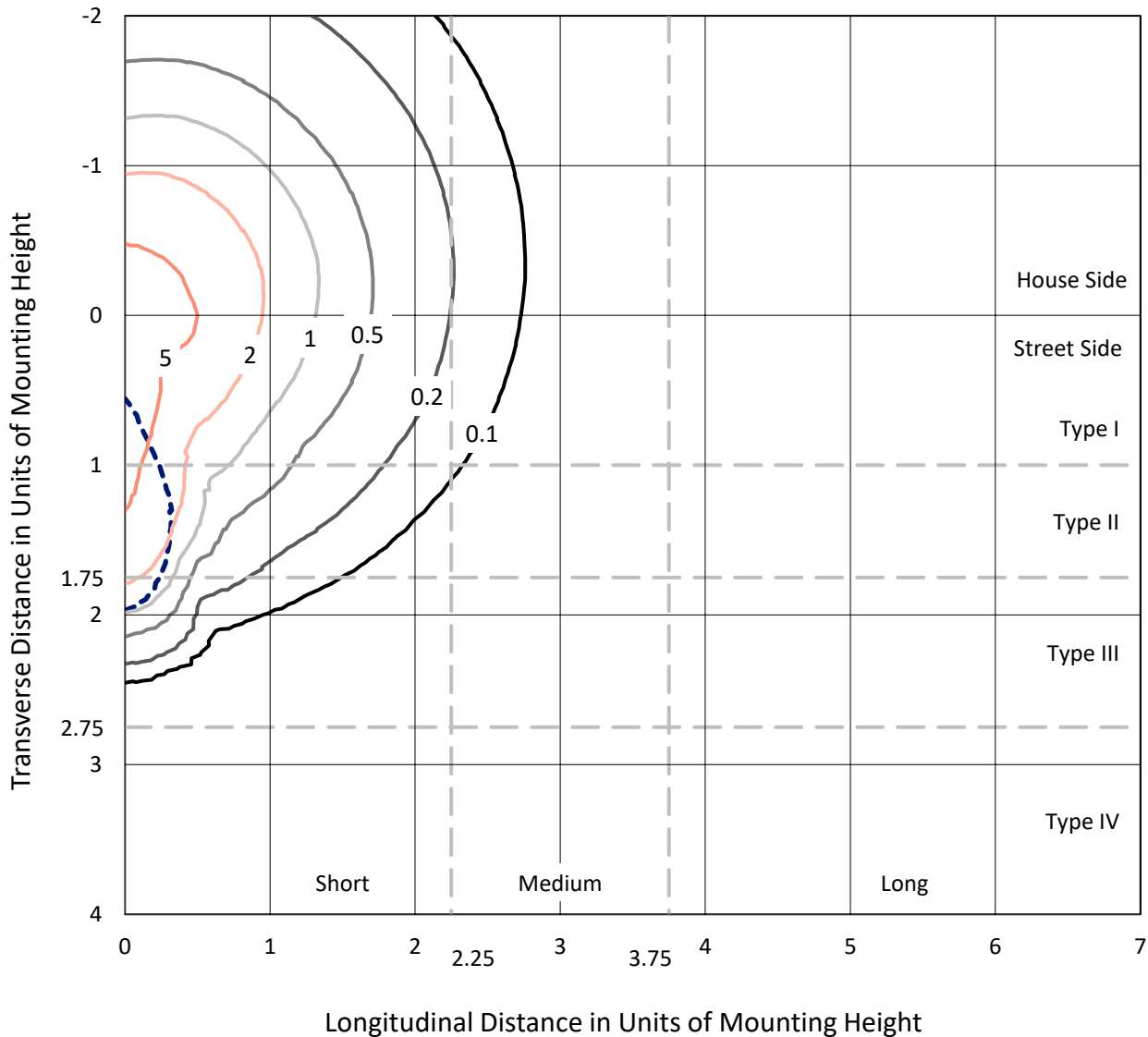
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

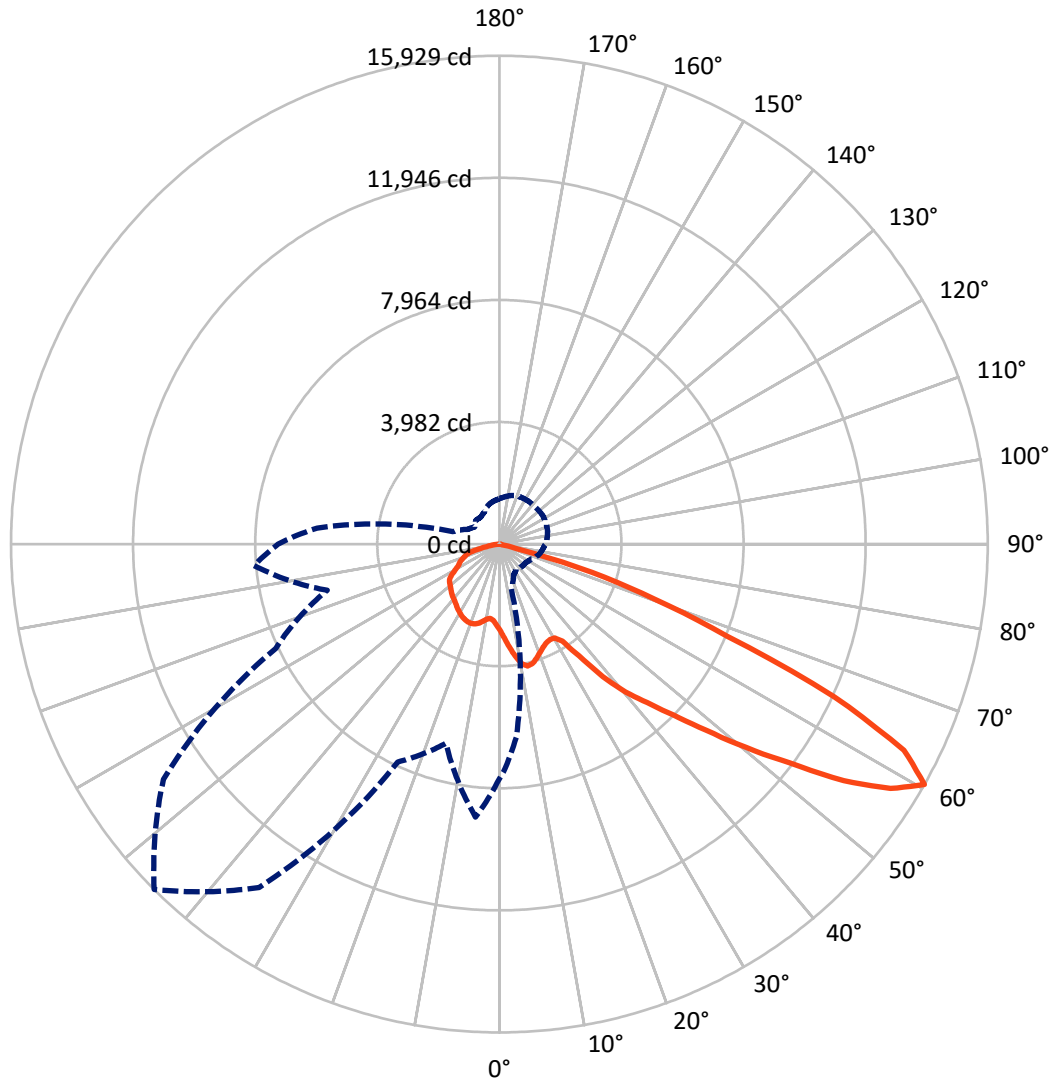
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 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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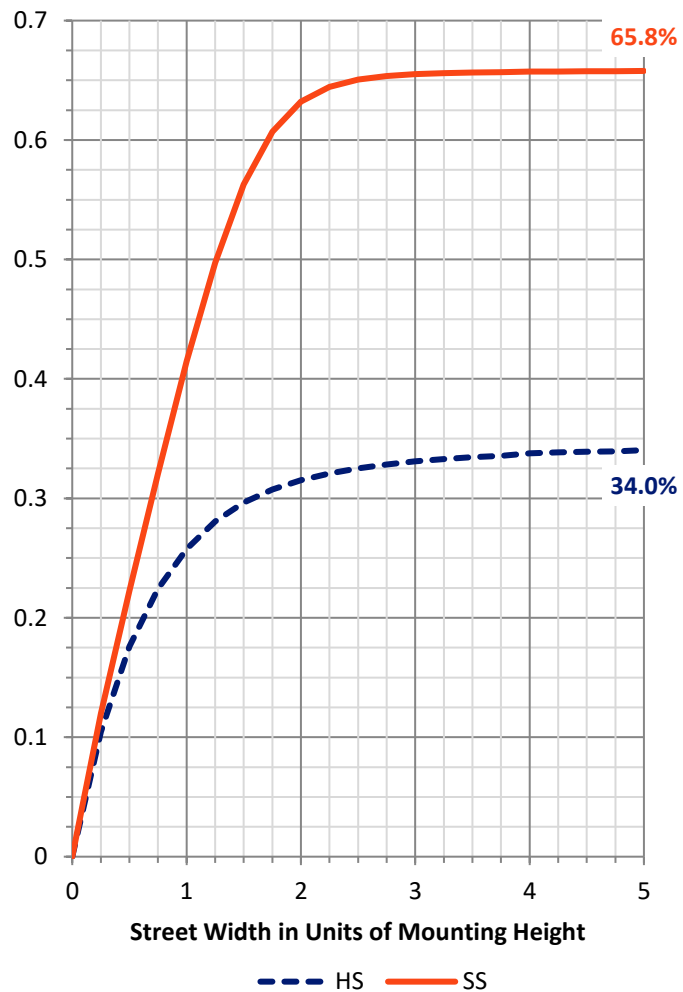
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4770.0	0.0	4770.0
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	9173.7	0.0	9173.7
	% Fixture	65.8	0.0	65.8
Total	Lumens	13943.7	0.0	13943.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	2.0
10°-20°	881.3	6.3
20°-30°	1435.3	10.3
30°-40°	2016.3	14.5
40°-50°	2759.0	19.8
50°-60°	3539.7	25.4
60°-70°	2383.5	17.1
70°-80°	595.9	4.3
80°-90°	58.1	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°	13943.7	100.0
0°-180°	13943.7	100.0

Coefficient of Utilization



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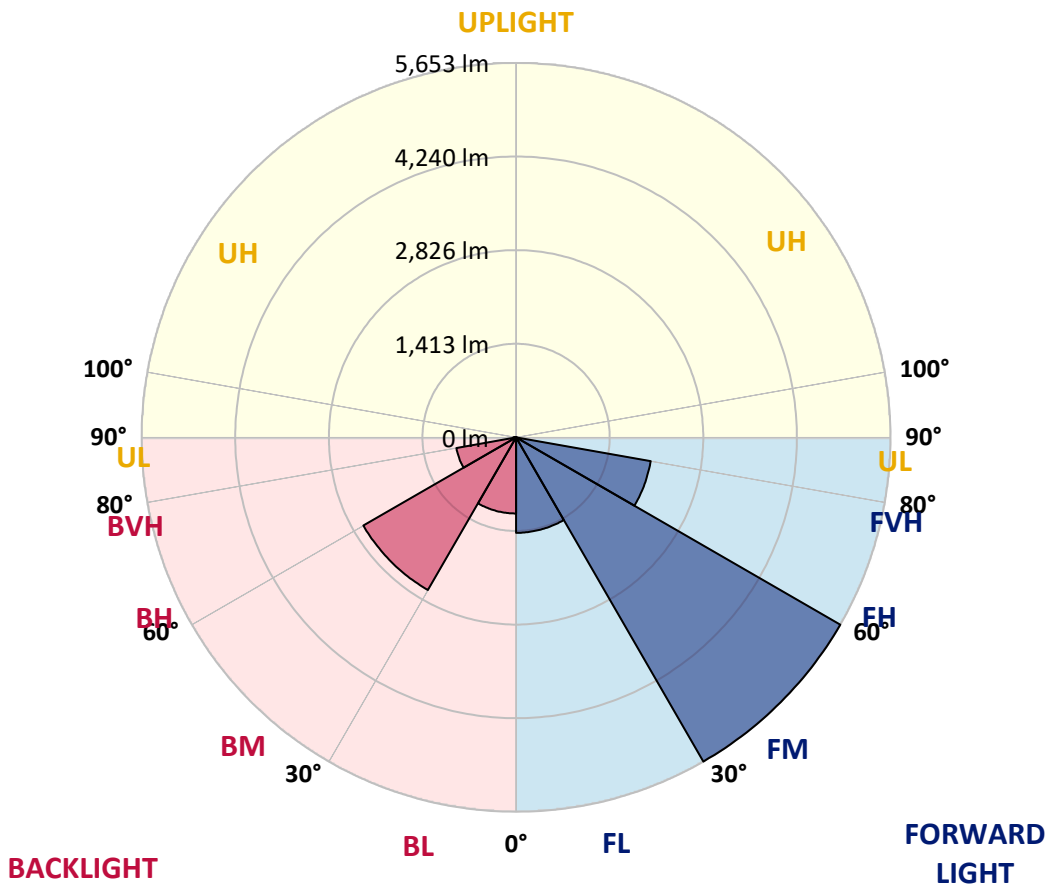
CATALOG NUMBER: GWS-SA5B-760-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1441.5	10.3			
FM (30°-60°)	5652.9	40.5			
FH (60°-80°)	2064.2	14.8			G2/5000
FVH (80°-90°)	15.1	0.1			G1/100
BL (0°-30°)	1149.9	8.2	B3/2500		
BM (30°-60°)	2662.1	19.1	B3/5000		
BH (60°-80°)	915.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	43.0	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°	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3
2.5°	2975.4	2969.0	2962.5	2912.5	2899.6	2863.7	2838.0	2805.9	2759.6	2734.0	2712.1
5°	3161.6	3151.3	3116.6	3013.9	2947.1	2873.9	2813.6	2746.8	2676.2	2629.9	2594.0
7.5°	3337.5	3334.9	3275.9	3106.4	2998.5	2893.2	2811.0	2713.4	2612.0	2542.6	2496.4
10°	3500.6	3481.3	3410.7	3189.8	3048.6	2927.9	2839.3	2731.4	2613.3	2519.5	2457.9
12.5°	3644.4	3620.0	3522.4	3266.9	3092.2	2943.3	2847.0	2758.4	2680.0	2601.7	2531.1
15°	3762.6	3733.0	3634.2	3338.8	3130.8	2934.3	2799.5	2730.1	2757.1	2791.7	2713.4
17.5°	3873.0	3842.2	3721.5	3391.4	3142.3	2879.1	2682.6	2653.1	2789.2	2947.1	2911.2
20°	3965.5	3930.8	3790.8	3417.1	3121.8	2773.8	2531.1	2582.4	2762.2	2951.0	3008.8
22.5°	4065.6	4037.4	3869.2	3454.4	3096.1	2628.7	2403.9	2529.8	2716.0	2881.6	2969.0
25°	4226.1	4191.5	3991.1	3519.9	3083.3	2492.5	2312.8	2478.4	2651.8	2802.0	2870.1
27.5°	4458.6	4394.4	4158.1	3634.2	3097.4	2364.1	2255.0	2415.5	2577.3	2705.7	2760.9
30°	4711.6	4634.5	4343.0	3752.3	3117.9	2285.8	2224.2	2343.6	2463.0	2591.4	2651.8
32.5°	5010.8	4942.7	4540.8	3840.9	3074.3	2249.8	2201.0	2265.2	2360.3	2463.0	2513.1
35°	5367.8	5245.8	4756.5	3912.8	2933.0	2197.2	2180.5	2179.2	2229.3	2329.5	2386.0
37.5°	5751.7	5620.7	5022.3	3989.9	2713.4	2113.7	2131.7	2077.8	2124.0	2203.6	2267.8
40°	6066.3	5928.9	5290.7	4095.2	2438.6	1982.7	2023.8	1966.0	1994.3	2076.5	2148.4
42.5°	6374.5	6228.1	5541.1	4214.6	2172.8	1854.3	1874.9	1853.0	1862.0	1948.1	2048.2
45°	6779.0	6614.7	5849.3	4299.3	1933.9	1752.9	1733.6	1696.4	1743.9	1855.6	1962.2
47.5°	7454.5	7258.0	6354.0	4354.6	1760.6	1695.1	1606.5	1584.6	1643.7	1768.3	1878.7
50°	8244.3	8074.8	7160.4	4352.0	1630.9	1646.3	1483.2	1463.9	1561.5	1687.4	1804.2
52.5°	8891.5	8719.4	7850.0	4223.6	1524.3	1542.3	1411.3	1357.4	1490.9	1607.8	1724.6
55°	9414.1	9220.2	8167.2	3686.8	1389.5	1376.6	1333.0	1234.1	1402.3	1528.1	1637.3
57.5°	9132.9	8901.8	7783.3	2803.3	1250.8	1169.9	1198.1	1124.9	1281.6	1439.5	1544.8
60°	7657.4	7449.4	6323.2	1492.2	1100.5	977.2	1036.3	1047.9	1149.3	1333.0	1440.8
62.5°	5259.9	5108.4	4285.2	905.3	868.1	784.6	877.1	960.5	1036.3	1191.7	1285.4
65°	2573.4	2528.5	2143.3	580.4	607.4	634.4	726.8	828.3	940.0	1076.1	1175.0
67.5°	708.9	714.0	649.8	453.3	479.0	553.5	626.7	707.6	819.3	945.1	1045.3
70°	312.0	317.2	327.5	349.3	398.1	466.1	541.9	625.4	728.1	833.4	929.7
72.5°	217.0	222.2	237.6	265.8	309.5	373.7	445.6	525.2	631.8	720.4	800.0
75°	133.6	137.4	151.5	175.9	205.5	254.3	324.9	398.1	491.8	572.7	643.4
77.5°	70.6	68.1	77.0	93.7	119.4	145.1	192.6	238.9	305.6	371.1	430.2
80°	38.5	37.2	42.4	51.4	59.1	79.6	111.7	142.5	181.1	218.3	250.4
82.5°	16.7	15.4	16.7	21.8	27.0	38.5	56.5	78.3	100.2	125.8	146.4
85°	0.0	0.0	0.0	1.3	6.4	10.3	19.3	28.3	41.1	56.5	69.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	11.6
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°	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3
2.5°	2699.3	2667.2	2664.6	2638.9	2641.5	2642.8	2617.1	2606.8	2615.8	2626.1	2621.0
5°	2581.1	2547.8	2533.6	2509.2	2506.7	2495.1	2484.8	2472.0	2481.0	2490.0	2495.1
7.5°	2478.4	2456.6	2447.6	2441.2	2443.7	2438.6	2418.1	2406.5	2405.2	2409.1	2414.2
10°	2445.0	2427.1	2438.6	2456.6	2469.4	2478.4	2456.6	2437.3	2419.3	2411.6	2411.6
12.5°	2516.9	2493.8	2516.9	2536.2	2561.9	2568.3	2543.9	2523.4	2516.9	2524.6	2540.1
15°	2676.2	2622.2	2621.0	2632.5	2653.1	2663.3	2640.2	2629.9	2629.9	2678.7	2717.3
17.5°	2835.4	2746.8	2709.6	2703.1	2716.0	2719.8	2700.6	2691.6	2714.7	2809.7	2881.6
20°	2947.1	2839.3	2758.4	2743.0	2746.8	2748.1	2732.7	2726.3	2759.6	2875.2	2935.6
22.5°	2935.6	2856.0	2757.1	2737.8	2744.2	2741.7	2727.5	2725.0	2751.9	2852.1	2880.4
25°	2856.0	2794.3	2710.8	2698.0	2708.3	2707.0	2692.9	2686.4	2698.0	2764.8	2767.4
27.5°	2764.8	2710.8	2638.9	2635.1	2651.8	2660.8	2636.4	2617.1	2613.3	2658.2	2647.9
30°	2655.6	2615.8	2558.0	2560.6	2591.4	2596.6	2567.0	2538.8	2531.1	2555.5	2541.3
32.5°	2525.9	2513.1	2482.3	2488.7	2518.2	2528.5	2497.7	2468.1	2459.2	2466.9	2437.3
35°	2415.5	2410.4	2412.9	2424.5	2450.2	2457.9	2432.2	2409.1	2396.2	2369.3	2330.7
37.5°	2301.2	2315.3	2352.6	2374.4	2388.5	2386.0	2371.8	2355.1	2334.6	2284.5	2237.0
40°	2194.6	2230.6	2297.4	2321.7	2326.9	2328.2	2317.9	2303.8	2278.1	2211.3	2157.4
42.5°	2112.4	2152.2	2240.8	2278.1	2280.7	2283.2	2273.0	2261.4	2225.4	2136.8	2084.2
45°	2026.4	2079.0	2183.1	2228.0	2225.4	2224.2	2215.2	2210.0	2167.7	2064.9	2007.1
47.5°	1953.2	2014.8	2126.6	2165.1	2163.8	2162.5	2156.1	2156.1	2113.7	2002.0	1936.5
50°	1881.3	1951.9	2068.8	2100.9	2103.4	2100.9	2098.3	2102.2	2052.1	1932.7	1868.4
52.5°	1803.0	1882.6	2004.6	2034.1	2049.5	2055.9	2055.9	2046.9	1987.9	1863.3	1792.7
55°	1716.9	1792.7	1933.9	1973.7	1986.6	1998.1	1998.1	1980.2	1924.9	1799.1	1723.3
57.5°	1610.3	1677.1	1788.8	1828.6	1859.5	1867.2	1867.2	1837.6	1792.7	1672.0	1610.3
60°	1494.8	1552.5	1628.3	1670.7	1693.8	1678.4	1689.9	1682.2	1646.3	1534.6	1483.2
62.5°	1340.7	1399.7	1483.2	1526.9	1537.1	1521.7	1537.1	1535.8	1487.0	1386.9	1325.2
65°	1230.2	1288.0	1370.2	1426.7	1443.4	1439.5	1449.8	1434.4	1374.0	1279.0	1219.9
67.5°	1099.2	1160.9	1255.9	1318.8	1353.5	1357.4	1371.5	1339.4	1277.7	1173.7	1099.2
70°	974.7	1027.3	1100.5	1159.6	1208.4	1232.8	1235.4	1189.1	1112.1	1026.0	972.1
72.5°	843.7	897.6	986.2	1050.4	1112.1	1140.3	1140.3	1083.8	1000.4	905.3	847.5
75°	684.5	734.5	815.4	884.8	955.4	991.4	990.1	941.3	848.8	758.9	698.6
77.5°	463.6	500.8	552.2	604.8	615.1	643.4	657.5	595.8	544.5	495.7	441.7
80°	269.7	292.8	321.0	350.6	357.0	366.0	342.9	319.8	292.8	260.7	236.3
82.5°	158.0	173.4	187.5	210.6	214.5	217.0	196.5	186.2	164.4	145.1	129.7
85°	77.0	82.2	95.0	106.6	101.4	98.9	89.9	79.6	70.6	62.9	55.2
87.5°	15.4	15.4	23.1	21.8	18.0	15.4	9.0	11.6	2.6	2.6	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°	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3
2.5°	2637.7	2659.5	2686.4	2722.4	2763.5	2807.2	2849.5	2881.6	2913.7	2961.3	2953.6
5°	2502.8	2540.1	2582.4	2637.7	2704.4	2780.2	2864.9	2949.7	3040.9	3117.9	3151.3
7.5°	2424.5	2465.6	2515.7	2587.6	2673.6	2766.1	2885.5	3022.9	3170.6	3272.0	3334.9
10°	2424.5	2477.1	2542.6	2612.0	2687.7	2782.8	2930.4	3102.5	3292.6	3426.1	3499.3
12.5°	2564.5	2617.1	2631.2	2628.7	2671.0	2776.3	2966.4	3186.0	3413.3	3554.5	3644.4
15°	2782.8	2800.7	2694.2	2596.6	2603.0	2730.1	2983.1	3252.8	3517.3	3686.8	3784.4
17.5°	2929.2	2881.6	2691.6	2520.8	2484.8	2651.8	2983.1	3317.0	3627.7	3819.1	3910.2
20°	2940.7	2822.6	2626.1	2447.6	2355.1	2547.8	2962.5	3365.8	3734.3	3946.2	4043.8
22.5°	2839.3	2722.4	2556.7	2384.7	2248.6	2421.9	2929.2	3403.0	3825.5	4065.6	4186.3
25°	2723.7	2626.1	2486.1	2320.5	2175.4	2294.8	2898.3	3465.9	3952.6	4227.4	4349.4
27.5°	2610.7	2528.5	2401.4	2266.5	2134.3	2184.3	2879.1	3558.4	4104.2	4457.3	4562.6
30°	2500.2	2425.8	2310.2	2215.2	2112.4	2112.4	2862.4	3665.0	4304.5	4715.4	4820.7
32.5°	2388.5	2317.9	2224.2	2165.1	2099.6	2084.2	2816.1	3765.1	4511.2	4997.9	5105.8
35°	2284.5	2213.9	2142.0	2117.6	2093.2	2062.4	2701.9	3843.5	4712.8	5328.0	5420.4
37.5°	2186.9	2118.9	2064.9	2058.5	2061.1	2003.3	2522.1	3909.0	4964.5	5665.7	5714.5
40°	2102.2	2026.4	1984.0	1982.7	1995.6	1908.3	2294.8	4002.7	5252.2	5952.1	5931.5
42.5°	2026.4	1946.8	1895.4	1907.0	1899.3	1813.2	2072.6	4088.7	5502.6	6220.4	6179.3
45°	1951.9	1874.9	1803.0	1819.6	1810.7	1754.2	1883.9	4151.7	5780.0	6542.8	6547.9
47.5°	1880.0	1804.2	1732.3	1711.8	1710.5	1736.2	1738.7	4172.2	6232.0	7061.6	6944.7
50°	1813.2	1737.5	1663.0	1593.6	1620.6	1700.2	1630.9	4156.8	6908.7	7634.3	7308.1
52.5°	1743.9	1672.0	1589.8	1465.2	1535.8	1614.2	1534.6	4101.6	7322.2	8140.2	7945.1
55°	1664.3	1596.2	1484.5	1333.0	1419.0	1435.7	1435.7	3567.4	7498.2	8641.1	8761.8
57.5°	1557.7	1467.8	1290.6	1168.6	1245.6	1181.4	1330.4	2496.4	7208.0	8483.1	8951.8
60°	1437.0	1340.7	1153.2	1065.8	1089.0	976.0	1133.9	1565.4	5973.9	7218.2	8029.8
62.5°	1277.7	1189.1	1033.7	965.7	918.2	796.2	913.0	990.1	4095.2	5360.1	5913.5
65°	1171.1	1073.6	934.9	845.0	747.4	640.8	606.1	649.8	2202.3	2999.8	3373.5
67.5°	1045.3	949.0	818.0	705.0	626.7	549.6	489.3	473.9	755.1	999.1	1081.3
70°	925.9	833.4	724.3	619.0	540.6	464.9	405.8	363.4	349.3	346.7	341.6
72.5°	803.9	717.8	626.7	529.1	443.0	373.7	321.0	272.2	251.7	245.3	238.9
75°	658.8	590.7	499.5	394.2	324.9	260.7	219.6	187.5	169.5	163.1	155.4
77.5°	423.8	393.0	313.3	254.3	196.5	155.4	133.6	113.0	101.4	98.9	92.5
80°	226.0	210.6	173.4	146.4	116.9	95.0	83.5	71.9	65.5	62.9	60.4
82.5°	125.8	114.3	96.3	84.8	68.1	57.8	51.4	46.2	42.4	41.1	39.8
85°	56.5	48.8	38.5	36.0	32.1	29.5	28.3	25.7	24.4	23.1	21.8
87.5°	2.6	5.1	6.4	5.1	5.1	7.7	9.0	9.0	7.7	7.7	6.4
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°	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3
2.5°	3001.1	3039.6	3043.4	3056.3	3039.6	3035.7	3008.8	2993.4	2979.2	2975.4
5°	3234.8	3311.8	3342.7	3364.5	3343.9	3333.7	3274.6	3213.0	3178.3	3161.6
7.5°	3474.9	3590.5	3650.8	3677.8	3680.4	3634.2	3532.7	3417.1	3359.3	3337.5
10°	3689.4	3831.9	3911.5	3962.9	3944.9	3888.4	3749.7	3593.1	3519.9	3500.6
12.5°	3848.6	3984.7	4046.4	4079.8	4078.5	4047.7	3916.7	3747.2	3663.7	3644.4
15°	3951.3	4032.2	4036.1	4043.8	4065.6	4106.7	4038.7	3882.0	3789.5	3762.6
17.5°	4032.2	4000.1	3939.8	3919.2	3968.0	4082.3	4123.4	3996.3	3896.1	3873.0
20°	4083.6	3921.8	3815.2	3775.4	3831.9	4018.1	4174.8	4099.0	3995.0	3965.5
22.5°	4123.4	3848.6	3676.5	3649.6	3708.6	3948.8	4227.4	4221.0	4106.7	4065.6
25°	4186.3	3799.8	3578.9	3559.7	3614.9	3915.4	4298.1	4386.7	4285.2	4226.1
27.5°	4285.2	3794.7	3528.9	3522.4	3598.2	3944.9	4399.5	4629.4	4502.2	4458.6
30°	4422.6	3843.5	3540.4	3553.3	3645.7	4051.5	4557.5	4906.8	4779.6	4711.6
32.5°	4620.4	3974.5	3716.3	3771.6	3839.6	4222.3	4788.6	5207.2	5110.9	5010.8
35°	4881.1	4334.0	4236.4	4471.4	4407.2	4596.0	5067.3	5571.9	5455.1	5367.8
37.5°	5229.1	5071.1	5161.0	5484.6	5329.2	5302.3	5407.6	5903.3	5839.0	5751.7
40°	5717.1	5749.2	5914.8	6339.9	6115.1	5941.8	5824.9	6152.4	6174.2	6066.3
42.5°	6040.7	6188.3	6587.7	7070.5	6761.1	6346.3	6174.2	6470.8	6472.1	6374.5
45°	6161.4	6547.9	7382.6	7938.6	7421.1	6577.4	6366.8	6903.6	6890.8	6779.0
47.5°	6117.7	6851.0	8208.3	9058.4	8268.7	6741.8	6339.9	7520.0	7624.0	7454.5
50°	6026.5	7155.3	9172.7	10429.9	9308.8	6916.5	6298.8	8203.2	8375.2	8244.3
52.5°	6119.0	7494.3	10313.0	11847.6	10613.5	7195.1	6576.1	9080.2	9049.4	8891.5
55°	6411.8	7895.0	11698.6	13628.7	12046.6	7666.4	7288.9	9916.2	9602.9	9414.1
57.5°	6397.7	8181.3	12913.4	15037.4	13293.6	8052.9	7536.7	10004.8	9371.8	9132.9
60°	5806.9	8050.4	13375.7	15928.6	13669.8	7839.8	6721.3	8936.4	7907.8	7657.4
62.5°	4334.0	7143.7	12479.4	14812.7	12605.3	6771.3	5054.4	6414.3	5682.4	5259.9
65°	2772.5	5588.6	10491.5	12000.4	10390.1	5179.0	3010.1	3439.0	2694.2	2573.4
67.5°	1180.1	3944.9	8155.7	8020.8	7773.0	3355.5	1162.2	968.3	721.7	708.9
70°	390.4	2683.9	5027.5	5349.8	4642.2	2311.5	384.0	324.9	323.6	312.0
72.5°	255.5	1440.8	2830.3	3151.3	2986.9	1330.4	232.4	217.0	222.2	217.0
75°	152.8	313.3	476.4	619.0	476.4	223.4	140.0	137.4	140.0	133.6
77.5°	89.9	87.3	84.8	84.8	83.5	77.0	70.6	68.1	69.3	70.6
80°	57.8	55.2	52.7	51.4	44.9	42.4	39.8	37.2	37.2	38.5
82.5°	37.2	34.7	32.1	28.3	23.1	19.3	18.0	15.4	15.4	16.7
85°	19.3	15.4	11.6	9.0	5.1	2.6	0.0	0.0	0.0	0.0
87.5°	3.9	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)