

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: P636060

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636060  
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-SA3F-722-U-SLL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

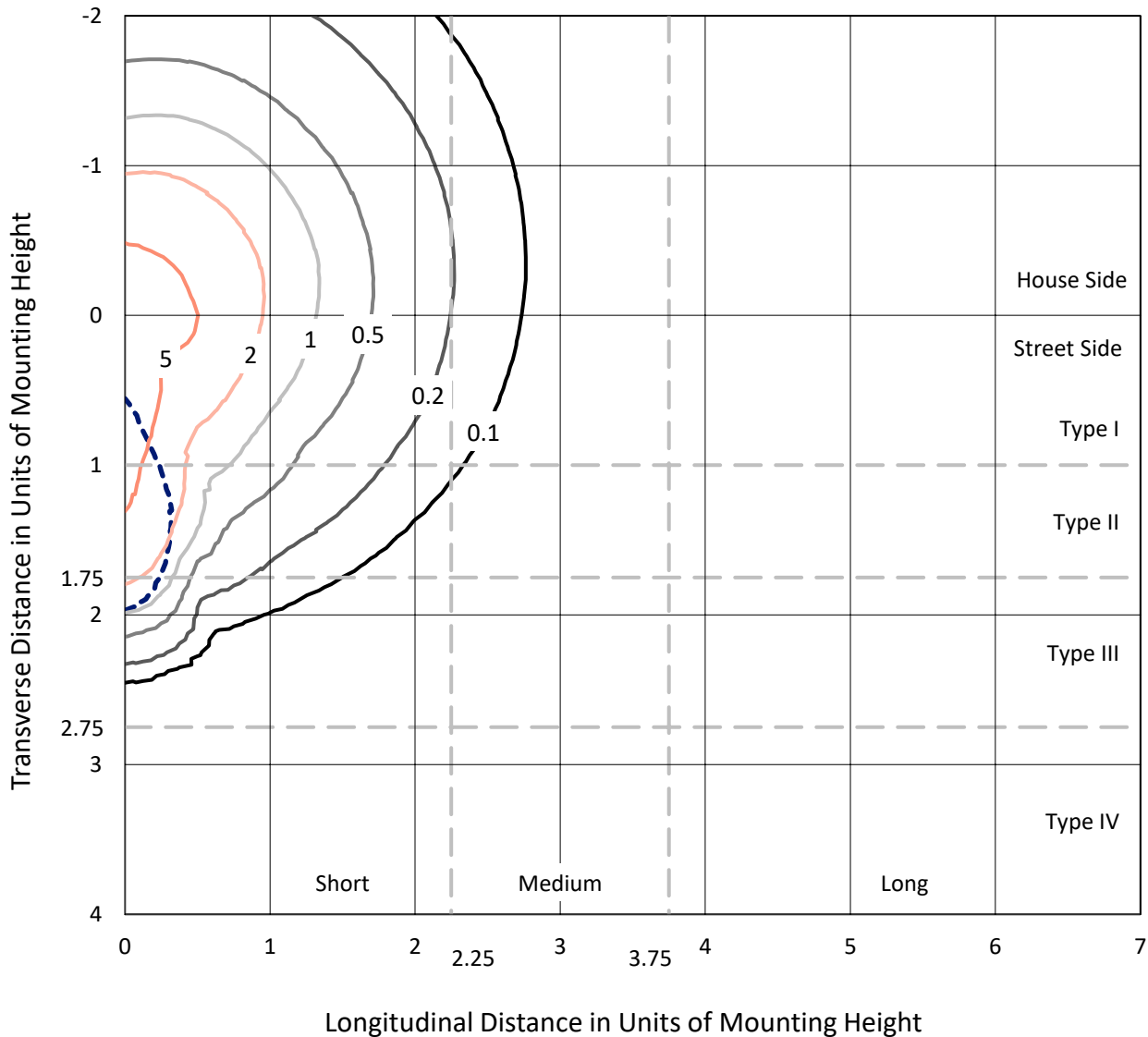
Lumens per Lamp: N/A  
Luminaire Lumens: 14018.8 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

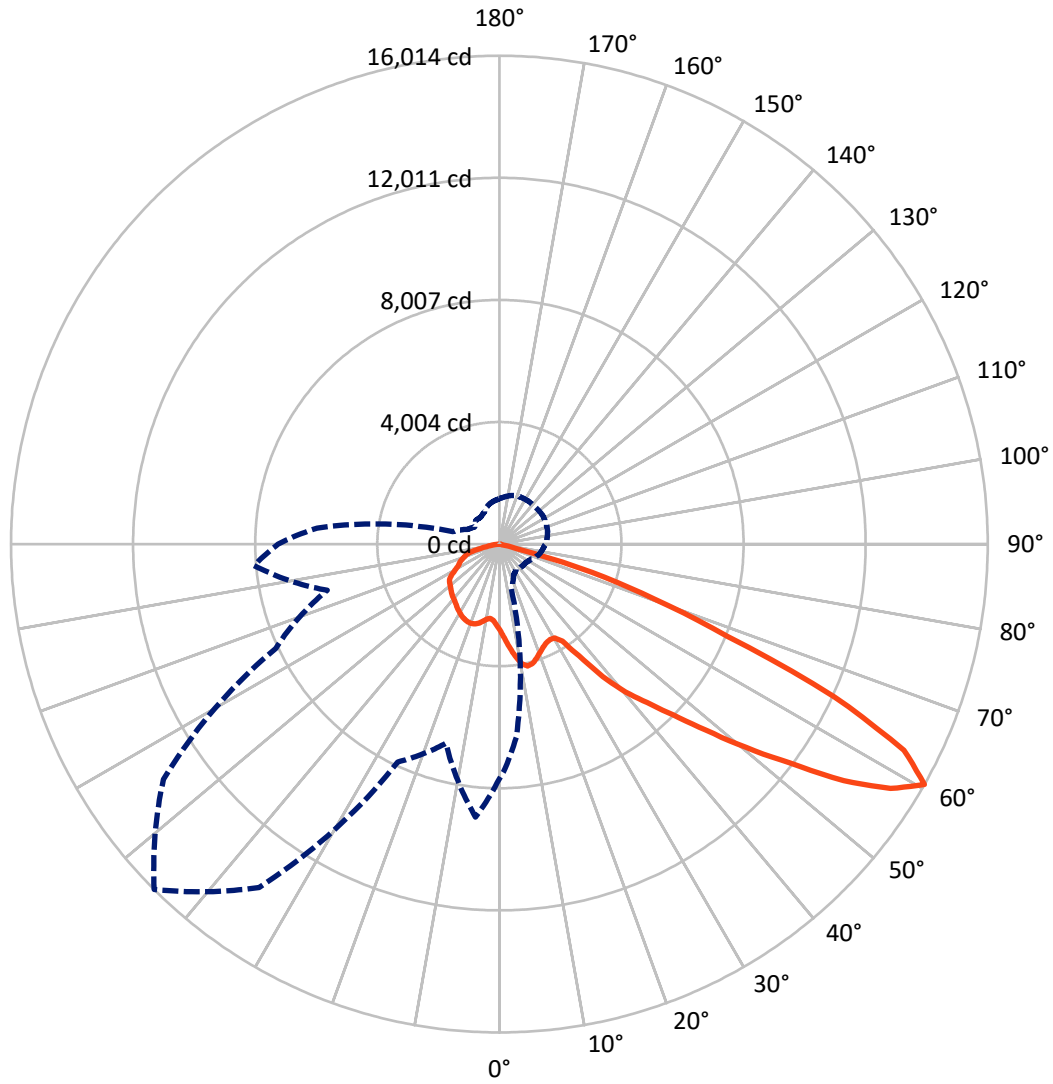
× Max cd  
 - - - 1/2 Max cd



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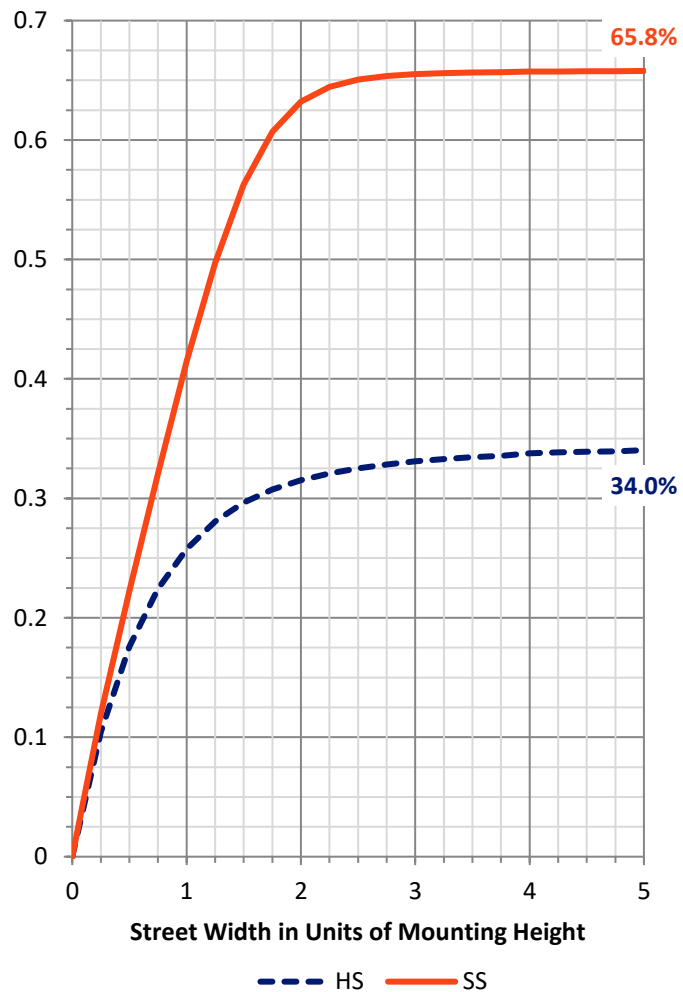
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4795.7	0.0	4795.7
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	9223.1	0.0	9223.1
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	14018.8	0.0	14018.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.2	2.0
10°-20°	886.0	6.3
20°-30°	1443.0	10.3
30°-40°	2027.1	14.5
40°-50°	2773.9	19.8
50°-60°	3558.7	25.4
60°-70°	2396.3	17.1
70°-80°	599.1	4.3
80°-90°	58.4	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°	14018.8	100.0
0°-180°	14018.8	100.0

**Coefficient of Utilization**



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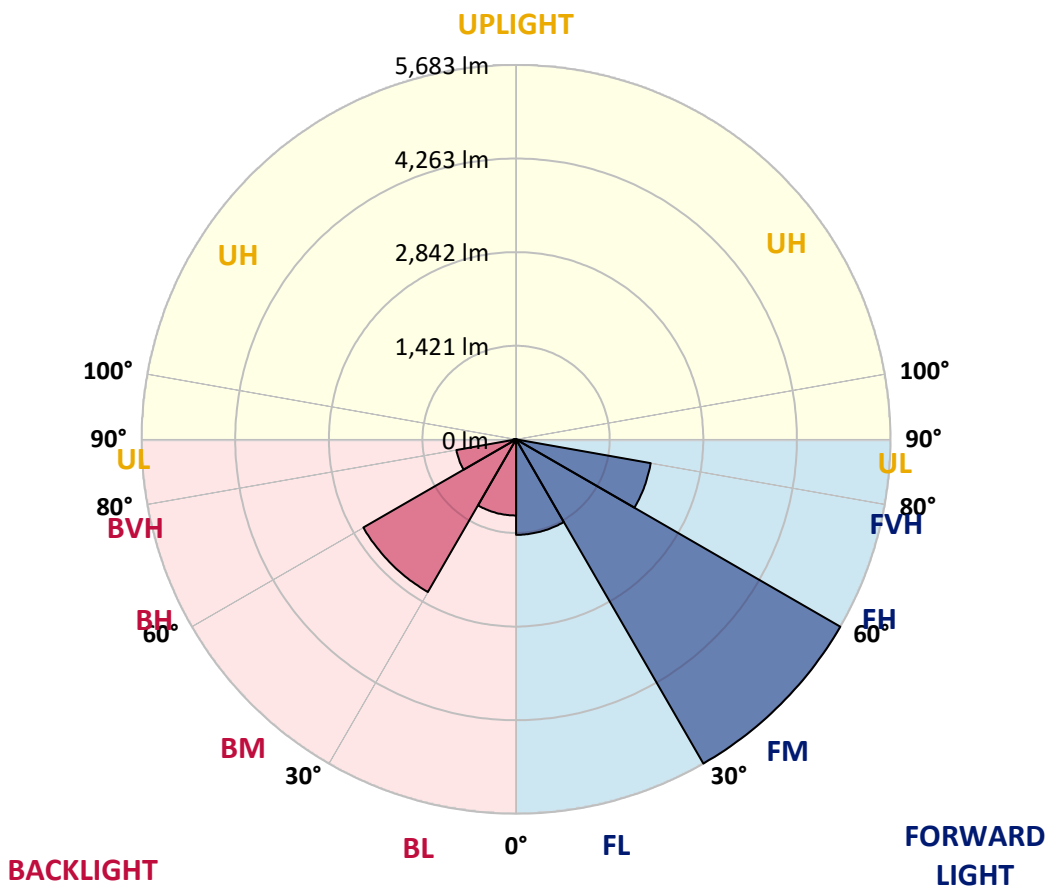
CATALOG NUMBER: GWS-SA3F-722-U-SLL-W-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1449.2	10.3			
FM (30°-60°)	5683.3	40.5			
FH (60°-80°)	2075.4	14.8			G2/5000
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	1156.1	8.2	B3/2500		
BM (30°-60°)	2676.4	19.1	B3/5000		
BH (60°-80°)	920.0	6.6	B2/1000		G2/1000
BVH (80°-90°)	43.2	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°	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4
2.5°	2991.4	2985.0	2978.5	2928.1	2915.2	2879.1	2853.3	2821.0	2774.5	2748.7	2726.7
5°	3178.6	3168.3	3133.4	3030.1	2963.0	2889.4	2828.7	2761.6	2690.6	2644.1	2608.0
7.5°	3355.5	3352.9	3293.5	3123.1	3014.6	2908.8	2826.2	2728.0	2626.0	2556.3	2509.8
10°	3519.5	3500.1	3429.1	3207.0	3065.0	2943.6	2854.6	2746.1	2627.3	2533.1	2471.1
12.5°	3664.1	3639.5	3541.4	3284.5	3108.9	2959.1	2862.3	2773.2	2694.5	2615.7	2544.7
15°	3782.8	3753.1	3653.7	3356.8	3147.6	2950.1	2814.5	2744.8	2771.9	2806.8	2728.0
17.5°	3893.9	3862.9	3741.5	3409.7	3159.2	2894.6	2697.0	2667.4	2804.2	2963.0	2926.9
20°	3986.8	3952.0	3811.2	3435.5	3138.6	2788.7	2544.7	2596.3	2777.1	2966.9	3025.0
22.5°	4087.5	4059.1	3890.0	3473.0	3112.8	2642.8	2416.9	2543.4	2730.6	2897.2	2985.0
25°	4248.9	4214.1	4012.6	3538.8	3099.9	2506.0	2325.2	2491.8	2666.1	2817.1	2885.5
27.5°	4482.6	4418.0	4180.5	3653.7	3114.1	2376.9	2267.1	2428.5	2591.2	2720.3	2775.8
30°	4736.9	4659.5	4366.4	3772.5	3134.7	2298.1	2236.1	2356.2	2476.3	2605.4	2666.1
32.5°	5037.8	4969.3	4565.2	3861.6	3090.8	2262.0	2212.9	2277.4	2373.0	2476.3	2526.6
35°	5396.7	5274.0	4782.1	3933.9	2948.8	2209.0	2192.2	2190.9	2241.3	2342.0	2398.8
37.5°	5782.7	5651.0	5049.4	4011.4	2728.0	2125.1	2143.2	2089.0	2135.4	2215.5	2280.0
40°	6099.0	5960.9	5319.2	4117.2	2451.7	1993.4	2034.7	1976.6	2005.0	2087.7	2160.0
42.5°	6408.9	6261.7	5571.0	4237.3	2184.5	1864.3	1885.0	1863.0	1872.1	1958.6	2059.3
45°	6815.6	6650.3	5880.8	4322.5	1944.4	1762.3	1742.9	1705.5	1753.3	1865.6	1972.8
47.5°	7494.7	7297.1	6388.2	4378.0	1770.1	1704.2	1615.1	1593.2	1652.6	1777.8	1888.8
50°	8288.7	8118.2	7199.0	4375.4	1639.7	1655.2	1491.2	1471.8	1569.9	1696.5	1814.0
52.5°	8939.4	8766.4	7892.3	4246.3	1532.5	1550.6	1418.9	1364.7	1498.9	1616.4	1733.9
55°	9464.8	9269.9	8211.2	3706.7	1396.9	1384.0	1340.1	1240.7	1409.8	1536.4	1646.1
57.5°	9182.1	8949.7	7825.2	2818.4	1257.5	1176.2	1204.6	1131.0	1288.5	1447.3	1553.2
60°	7698.6	7489.5	6357.2	1500.2	1106.4	982.5	1041.9	1053.5	1155.5	1340.1	1448.6
62.5°	5288.2	5135.9	4308.3	910.2	872.8	788.8	881.8	965.7	1041.9	1198.1	1292.4
65°	2587.3	2542.1	2154.8	583.6	610.7	637.8	730.7	832.7	945.1	1081.9	1181.3
67.5°	712.7	717.8	653.3	455.7	481.6	556.5	630.0	711.4	823.7	950.2	1050.9
70°	313.7	318.9	329.2	351.2	400.2	468.7	544.8	628.8	732.0	837.9	934.7
72.5°	218.2	223.4	238.8	267.3	311.1	375.7	448.0	528.0	635.2	724.3	804.3
75°	134.3	138.1	152.3	176.9	206.6	255.6	326.6	400.2	494.5	575.8	646.8
77.5°	71.0	68.4	77.5	94.2	120.1	145.9	193.7	240.1	307.3	373.1	432.5
80°	38.7	37.4	42.6	51.6	59.4	80.0	112.3	143.3	182.0	219.5	251.8
82.5°	16.8	15.5	16.8	21.9	27.1	38.7	56.8	78.8	100.7	126.5	147.2
85°	0.0	0.0	0.0	1.3	6.5	10.3	19.4	28.4	41.3	56.8	69.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	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°	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4
2.5°	2713.8	2681.6	2679.0	2653.1	2655.7	2657.0	2631.2	2620.9	2629.9	2640.2	2635.1
5°	2595.1	2561.5	2547.3	2522.8	2520.2	2508.5	2498.2	2485.3	2494.3	2503.4	2508.5
7.5°	2491.8	2469.8	2460.8	2454.3	2456.9	2451.7	2431.1	2419.5	2418.2	2422.0	2427.2
10°	2458.2	2440.1	2451.7	2469.8	2482.7	2491.8	2469.8	2450.5	2432.4	2424.6	2424.6
12.5°	2530.5	2507.3	2530.5	2549.9	2575.7	2582.1	2557.6	2537.0	2530.5	2538.2	2553.7
15°	2690.6	2636.4	2635.1	2646.7	2667.4	2677.7	2654.4	2644.1	2644.1	2693.2	2731.9
17.5°	2850.7	2761.6	2724.2	2717.7	2730.6	2734.5	2715.1	2706.1	2729.3	2824.9	2897.2
20°	2963.0	2854.6	2773.2	2757.7	2761.6	2762.9	2747.4	2740.9	2774.5	2890.7	2951.4
22.5°	2951.4	2871.3	2771.9	2752.6	2759.0	2756.4	2742.2	2739.7	2766.8	2867.5	2895.9
25°	2871.3	2809.4	2725.4	2712.5	2722.9	2721.6	2707.4	2700.9	2712.5	2779.7	2782.3
27.5°	2779.7	2725.4	2653.1	2649.3	2666.1	2675.1	2650.6	2631.2	2627.3	2672.5	2662.2
30°	2669.9	2629.9	2571.8	2574.4	2605.4	2610.5	2580.8	2552.4	2544.7	2569.2	2555.0
32.5°	2539.5	2526.6	2495.6	2502.1	2531.8	2542.1	2511.1	2481.4	2472.4	2480.1	2450.5
35°	2428.5	2423.3	2425.9	2437.5	2463.4	2471.1	2445.3	2422.0	2409.1	2382.0	2343.3
37.5°	2313.6	2327.8	2365.2	2387.2	2401.4	2398.8	2384.6	2367.8	2347.2	2296.8	2249.0
40°	2206.4	2242.6	2309.7	2334.3	2339.4	2340.7	2330.4	2316.2	2290.4	2223.2	2169.0
42.5°	2123.8	2163.8	2252.9	2290.4	2292.9	2295.5	2285.2	2273.6	2237.4	2148.3	2095.4
45°	2037.3	2090.2	2194.8	2240.0	2237.4	2236.1	2227.1	2221.9	2179.3	2076.0	2017.9
47.5°	1963.7	2025.7	2138.0	2176.7	2175.5	2174.2	2167.7	2167.7	2125.1	2012.8	1946.9
50°	1891.4	1962.4	2079.9	2112.2	2114.8	2112.2	2109.6	2113.5	2063.1	1943.1	1878.5
52.5°	1812.7	1892.7	2015.4	2045.1	2060.5	2067.0	2067.0	2058.0	1998.6	1873.3	1802.3
55°	1726.2	1802.3	1944.4	1984.4	1997.3	2008.9	2008.9	1990.8	1935.3	1808.8	1732.6
57.5°	1619.0	1686.1	1798.5	1838.5	1869.5	1877.2	1877.2	1847.5	1802.3	1681.0	1619.0
60°	1502.8	1560.9	1637.1	1679.7	1702.9	1687.4	1699.0	1691.3	1655.2	1542.8	1491.2
62.5°	1347.9	1407.3	1491.2	1535.1	1545.4	1529.9	1545.4	1544.1	1495.1	1394.4	1332.4
65°	1236.8	1294.9	1377.6	1434.4	1451.2	1447.3	1457.6	1442.1	1381.4	1285.9	1226.5
67.5°	1105.2	1167.1	1262.7	1325.9	1360.8	1364.7	1378.9	1346.6	1284.6	1180.0	1105.2
70°	979.9	1032.9	1106.4	1165.8	1214.9	1239.4	1242.0	1195.5	1118.1	1031.6	977.3
72.5°	848.2	902.5	991.5	1056.1	1118.1	1146.5	1146.5	1089.7	1005.7	910.2	852.1
75°	688.1	738.5	819.8	889.5	960.6	996.7	995.4	946.4	853.4	763.0	702.3
77.5°	466.1	503.5	555.2	608.1	618.4	646.8	661.0	599.1	547.4	498.4	444.1
80°	271.1	294.4	322.8	352.5	358.9	368.0	344.7	321.5	294.4	262.1	237.6
82.5°	158.8	174.3	188.5	211.7	215.6	218.2	197.5	187.2	165.3	145.9	130.4
85°	77.5	82.6	95.5	107.2	102.0	99.4	90.4	80.0	71.0	63.3	55.5
87.5°	15.5	15.5	23.2	21.9	18.1	15.5	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°	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4
2.5°	2651.9	2673.8	2700.9	2737.1	2778.4	2822.3	2864.9	2897.2	2929.4	2977.2	2969.5
5°	2516.3	2553.7	2596.3	2651.9	2719.0	2795.2	2880.4	2965.6	3057.3	3134.7	3168.3
7.5°	2437.5	2478.9	2529.2	2601.5	2688.0	2781.0	2901.0	3039.2	3187.7	3289.6	3352.9
10°	2437.5	2490.5	2556.3	2626.0	2702.2	2797.7	2946.2	3119.2	3310.3	3444.6	3518.2
12.5°	2578.3	2631.2	2645.4	2642.8	2685.4	2791.3	2982.4	3203.1	3431.7	3573.7	3664.1
15°	2797.7	2815.8	2708.7	2610.5	2617.0	2744.8	2999.2	3270.3	3536.2	3706.7	3804.8
17.5°	2944.9	2897.2	2706.1	2534.4	2498.2	2666.1	2999.2	3334.8	3647.3	3839.6	3931.3
20°	2956.5	2837.8	2640.2	2460.8	2367.8	2561.5	2978.5	3383.9	3754.4	3967.5	4065.6
22.5°	2854.6	2737.1	2570.5	2397.5	2260.7	2435.0	2944.9	3421.3	3846.1	4087.5	4208.9
25°	2738.4	2640.2	2499.5	2333.0	2187.1	2307.1	2913.9	3484.6	3973.9	4250.2	4372.9
27.5°	2624.7	2542.1	2414.3	2278.7	2145.8	2196.1	2894.6	3577.6	4126.3	4481.3	4587.2
30°	2513.7	2438.8	2322.6	2227.1	2123.8	2123.8	2877.8	3684.7	4327.7	4740.8	4846.7
32.5°	2401.4	2330.4	2236.1	2176.7	2110.9	2095.4	2831.3	3785.4	4535.5	5024.8	5133.3
35°	2296.8	2225.8	2153.5	2129.0	2104.4	2073.5	2716.4	3864.2	4738.2	5356.6	5449.6
37.5°	2198.7	2130.3	2076.0	2069.6	2072.2	2014.1	2535.7	3930.0	4991.3	5696.2	5745.3
40°	2113.5	2037.3	1994.7	1993.4	2006.3	1918.5	2307.1	4024.3	5280.5	5984.1	5963.5
42.5°	2037.3	1957.3	1905.6	1917.2	1909.5	1823.0	2083.8	4110.8	5532.2	6253.9	6212.6
45°	1962.4	1885.0	1812.7	1829.4	1820.4	1763.6	1894.0	4174.0	5811.1	6578.0	6583.2
47.5°	1890.1	1814.0	1741.7	1721.0	1719.7	1745.5	1748.1	4194.7	6265.6	7099.6	6982.1
50°	1823.0	1746.8	1671.9	1602.2	1629.3	1709.4	1639.7	4179.2	6946.0	7675.4	7347.5
52.5°	1753.3	1681.0	1598.3	1473.1	1544.1	1622.9	1542.8	4123.7	7361.7	8184.1	7987.8
55°	1673.2	1604.8	1492.5	1340.1	1426.6	1443.4	1443.4	3586.6	7538.6	8687.6	8809.0
57.5°	1566.1	1475.7	1297.5	1174.9	1252.3	1187.8	1337.5	2509.8	7246.8	8528.8	9000.0
60°	1444.7	1347.9	1159.4	1071.6	1094.8	981.2	1140.0	1573.8	6006.1	7257.1	8073.1
62.5°	1284.6	1195.5	1039.3	970.9	923.1	800.5	918.0	995.4	4117.2	5388.9	5945.4
65°	1177.5	1079.3	939.9	849.5	751.4	644.2	609.4	653.3	2214.2	3015.9	3391.6
67.5°	1050.9	954.1	822.4	708.8	630.0	552.6	491.9	476.4	759.1	1004.5	1087.1
70°	930.9	837.9	728.2	622.3	543.5	467.4	408.0	365.4	351.2	348.6	343.4
72.5°	808.2	721.7	630.0	531.9	445.4	375.7	322.8	273.7	253.0	246.6	240.1
75°	662.3	593.9	502.2	396.4	326.6	262.1	220.8	188.5	170.4	164.0	156.2
77.5°	426.1	395.1	315.0	255.6	197.5	156.2	134.3	113.6	102.0	99.4	93.0
80°	227.2	211.7	174.3	147.2	117.5	95.5	83.9	72.3	65.8	63.3	60.7
82.5°	126.5	114.9	96.8	85.2	68.4	58.1	51.6	46.5	42.6	41.3	40.0
85°	56.8	49.1	38.7	36.1	32.3	29.7	28.4	25.8	24.5	23.2	21.9
87.5°	2.6	5.2	6.5	5.2	5.2	7.7	9.0	9.0	7.7	7.7	6.5
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°	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4
2.5°	3017.2	3056.0	3059.8	3072.7	3056.0	3052.1	3025.0	3009.5	2995.3	2991.4
5°	3252.2	3329.7	3360.7	3382.6	3361.9	3351.6	3292.2	3230.3	3195.4	3178.6
7.5°	3493.6	3609.8	3670.5	3697.6	3700.2	3653.7	3551.7	3435.5	3377.4	3355.5
10°	3709.2	3852.6	3932.6	3984.2	3966.2	3909.4	3769.9	3612.4	3538.8	3519.5
12.5°	3869.3	4006.2	4068.2	4101.7	4100.4	4069.5	3937.8	3767.3	3683.4	3664.1
15°	3972.6	4054.0	4057.8	4065.6	4087.5	4128.8	4060.4	3902.9	3809.9	3782.8
17.5°	4054.0	4021.7	3961.0	3940.3	3989.4	4104.3	4145.6	4017.8	3917.1	3893.9
20°	4105.6	3942.9	3835.8	3795.7	3852.6	4039.8	4197.3	4121.1	4016.5	3986.8
22.5°	4145.6	3869.3	3696.3	3669.2	3728.6	3970.0	4250.2	4243.7	4128.8	4087.5
25°	4208.9	3820.3	3598.2	3578.8	3634.4	3936.5	4321.2	4410.3	4308.3	4248.9
27.5°	4308.3	3815.1	3547.9	3541.4	3617.6	3966.2	4423.2	4654.3	4526.5	4482.6
30°	4446.4	3864.2	3559.5	3572.4	3665.3	4073.3	4582.0	4933.2	4805.4	4736.9
32.5°	4645.3	3995.9	3736.4	3791.9	3860.3	4245.0	4814.4	5235.3	5138.5	5037.8
35°	4907.4	4357.4	4259.2	4495.5	4431.0	4620.7	5094.6	5602.0	5484.5	5396.7
37.5°	5257.2	5098.4	5188.8	5514.2	5357.9	5330.8	5436.7	5935.0	5870.5	5782.7
40°	5747.8	5780.1	5946.7	6374.0	6148.1	5973.8	5856.3	6185.5	6207.5	6099.0
42.5°	6073.2	6221.7	6623.2	7108.6	6797.5	6380.5	6207.5	6505.7	6507.0	6408.9
45°	6194.6	6583.2	7422.4	7981.4	7461.1	6612.9	6401.1	6940.8	6927.9	6815.6
47.5°	6150.7	6887.9	8252.5	9107.2	8313.2	6778.1	6374.0	7560.5	7665.1	7494.7
50°	6059.0	7193.8	9222.1	10486.1	9359.0	6953.7	6332.7	8247.4	8420.4	8288.7
52.5°	6151.9	7534.7	10368.6	11911.4	10670.7	7233.9	6611.6	9129.2	9098.2	8939.4
55°	6446.3	7937.5	11761.6	13702.1	12111.5	7707.7	7328.1	9969.6	9654.6	9464.8
57.5°	6432.1	8225.4	12983.0	15118.4	13365.2	8096.3	7577.3	10058.7	9422.2	9182.1
60°	5838.2	8093.7	13447.8	16014.4	13743.4	7882.0	6757.5	8984.6	7950.4	7698.6
62.5°	4357.4	7182.2	12546.6	14892.5	12673.1	6807.8	5081.7	6448.9	5713.0	5288.2
65°	2787.4	5618.7	10548.0	12065.0	10446.0	5206.9	3026.3	3457.5	2708.7	2587.3
67.5°	1186.5	3966.2	8199.6	8064.0	7814.8	3373.6	1168.4	973.5	725.6	712.7
70°	392.5	2698.3	5054.5	5378.6	4667.2	2323.9	386.0	326.6	325.3	313.7
72.5°	256.9	1448.6	2845.5	3168.3	3003.0	1337.5	233.7	218.2	223.4	218.2
75°	153.6	315.0	479.0	622.3	479.0	224.6	140.7	138.1	140.7	134.3
77.5°	90.4	87.8	85.2	85.2	83.9	77.5	71.0	68.4	69.7	71.0
80°	58.1	55.5	52.9	51.6	45.2	42.6	40.0	37.4	37.4	38.7
82.5°	37.4	34.9	32.3	28.4	23.2	19.4	18.1	15.5	15.5	16.8
85°	19.4	15.5	11.6	9.0	5.2	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)