

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: P633805

Luminaire Tested: GWS-SA2F-740-U-SLL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633805  
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-SA2F-740-U-SLL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

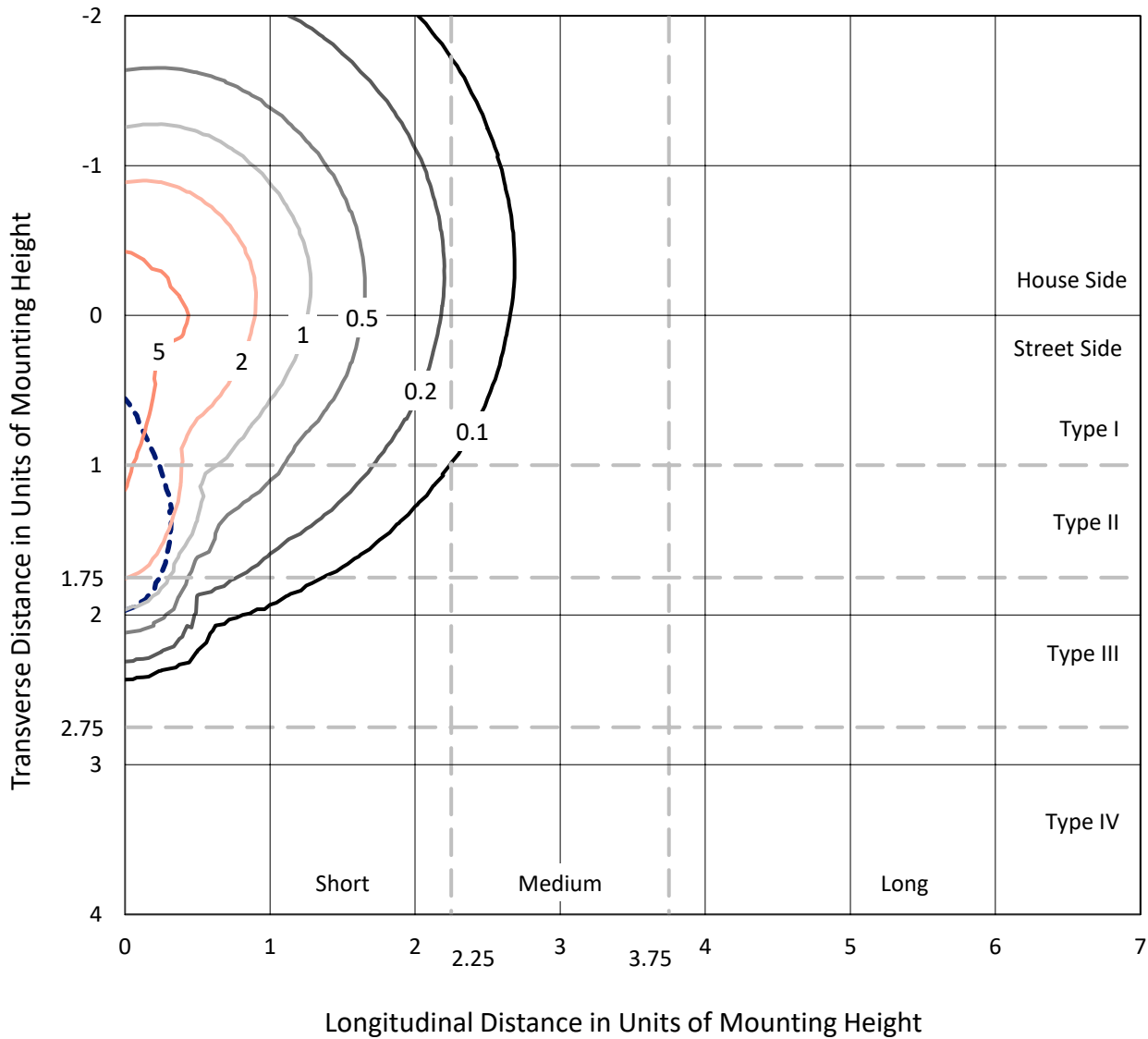
Lumens per Lamp: N/A  
Luminaire Lumens: 12627.3 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

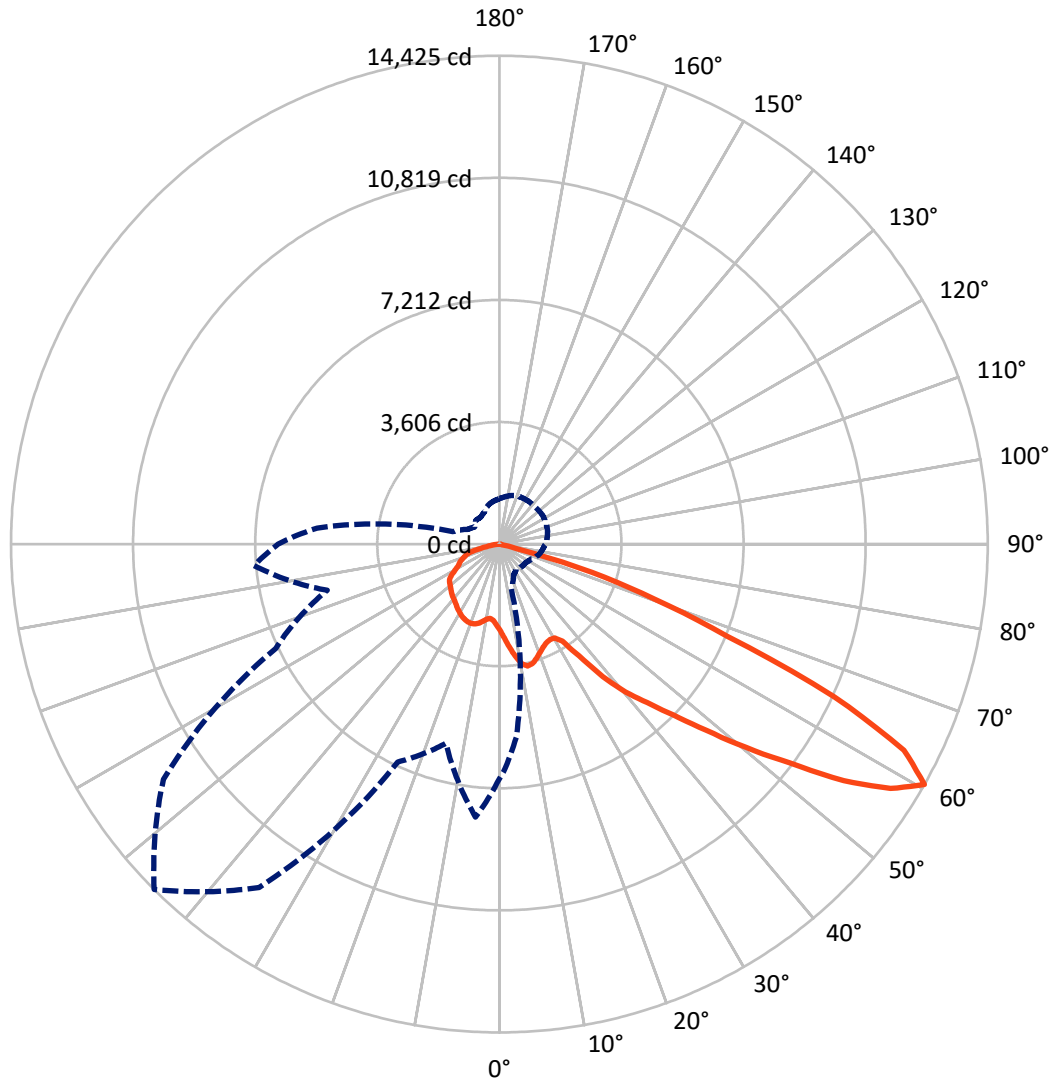
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 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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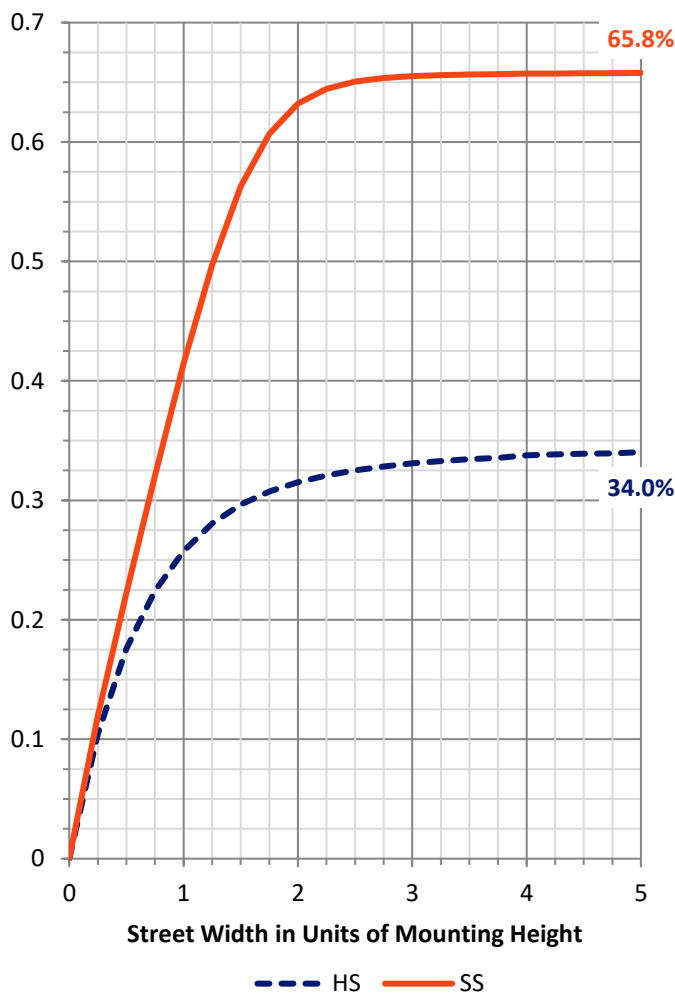
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4319.7	0.0	4319.7
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	8307.6	0.0	8307.6
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	12627.3	0.0	12627.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.8	2.0
10°-20°	798.1	6.3
20°-30°	1299.8	10.3
30°-40°	1825.9	14.5
40°-50°	2498.5	19.8
50°-60°	3205.5	25.4
60°-70°	2158.5	17.1
70°-80°	539.6	4.3
80°-90°	52.6	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°	12627.3	100.0
0°-180°	12627.3	100.0

**Coefficient of Utilization**



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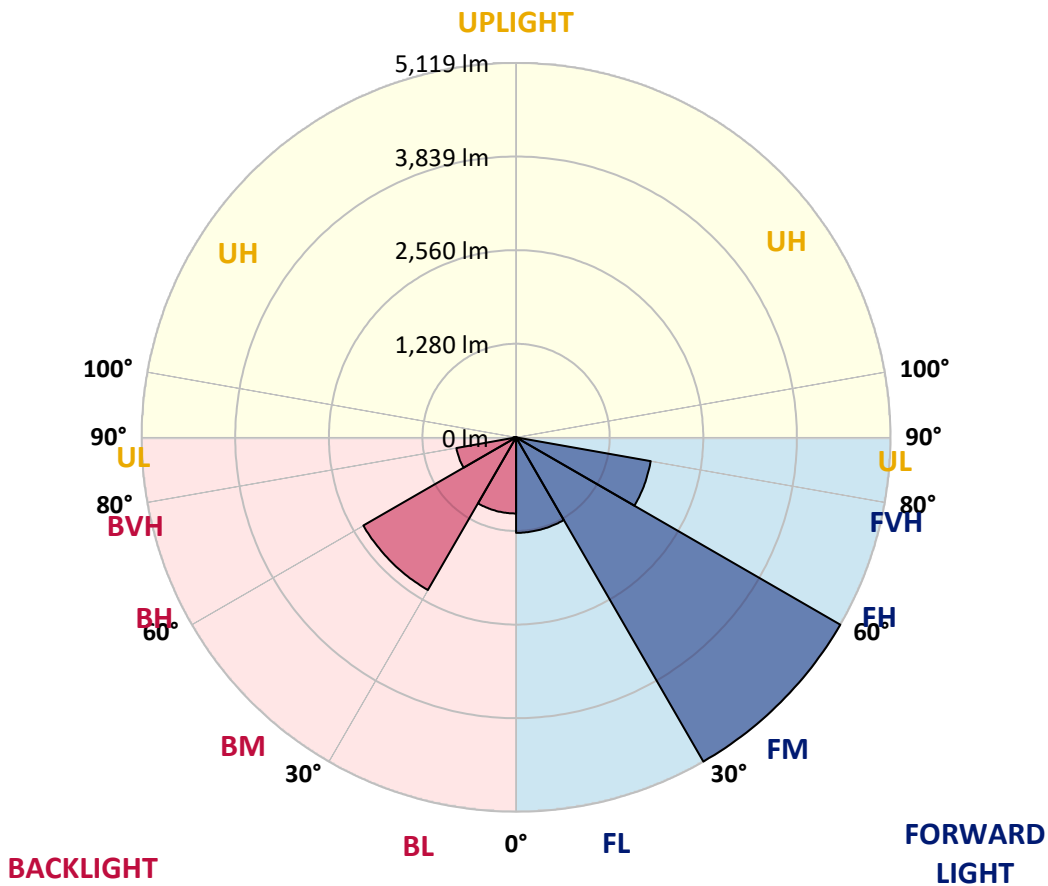
CATALOG NUMBER: GWS-SA2F-740-U-SLL-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1305.4	10.3			
FM (30°-60°)	5119.2	40.5			
FH (60°-80°)	1869.4	14.8			G2/5000
FVH (80°-90°)	13.7	0.1			G1/100
BL (0°-30°)	1041.3	8.2	B3/2500		
BM (30°-60°)	2410.7	19.1	B2/2500		
BH (60°-80°)	828.7	6.6	B2/1000		G2/1000
BVH (80°-90°)	38.9	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°	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8
2.5°	2694.5	2688.7	2682.9	2637.5	2625.9	2593.3	2570.1	2541.0	2499.1	2475.9	2456.1
5°	2863.1	2853.8	2822.4	2729.4	2668.9	2602.6	2548.0	2487.5	2423.5	2381.7	2349.1
7.5°	3022.4	3020.1	2966.6	2813.1	2715.4	2620.1	2545.6	2457.2	2365.4	2302.6	2260.7
10°	3170.1	3152.7	3088.7	2888.7	2760.8	2651.5	2571.2	2473.5	2366.5	2281.6	2225.8
12.5°	3300.4	3278.3	3189.9	2958.5	2800.3	2665.4	2578.2	2497.9	2427.0	2356.1	2292.1
15°	3407.4	3380.6	3291.1	3023.6	2835.2	2657.3	2535.2	2472.4	2496.8	2528.2	2457.2
17.5°	3507.4	3479.5	3370.1	3071.3	2845.7	2607.3	2429.3	2402.6	2525.9	2668.9	2636.3
20°	3591.1	3559.7	3432.9	3094.5	2827.1	2511.9	2292.1	2338.6	2501.4	2672.4	2724.7
22.5°	3681.8	3656.2	3503.9	3128.3	2803.8	2380.5	2177.0	2291.0	2459.6	2609.6	2688.7
25°	3827.2	3795.8	3614.4	3187.6	2792.2	2257.2	2094.4	2244.4	2401.4	2537.5	2599.1
27.5°	4037.7	3979.5	3765.5	3291.1	2805.0	2140.9	2042.1	2187.5	2334.0	2450.3	2500.3
30°	4266.7	4197.0	3933.0	3398.0	2823.6	2070.0	2014.2	2122.3	2230.5	2346.8	2401.4
32.5°	4537.7	4476.1	4112.1	3478.3	2784.0	2037.4	1993.2	2051.4	2137.4	2230.5	2275.8
35°	4861.0	4750.5	4307.5	3543.4	2656.1	1989.8	1974.6	1973.5	2018.8	2109.5	2160.7
37.5°	5208.7	5090.1	4548.2	3613.2	2457.2	1914.2	1930.4	1881.6	1923.5	1995.6	2053.7
40°	5493.6	5369.2	4791.2	3708.5	2208.4	1795.5	1832.8	1780.4	1806.0	1880.4	1945.6
42.5°	5772.7	5640.2	5018.0	3816.7	1967.7	1679.3	1697.9	1678.1	1686.2	1764.1	1854.9
45°	6139.0	5990.2	5297.1	3893.5	1751.4	1587.4	1569.9	1536.2	1579.2	1680.4	1776.9
47.5°	6750.7	6572.8	5754.1	3943.5	1594.4	1535.1	1454.8	1435.0	1488.5	1601.3	1701.4
50°	7465.9	7312.4	6484.4	3941.1	1476.9	1490.9	1343.2	1325.7	1414.1	1528.1	1633.9
52.5°	8052.0	7896.2	7108.9	3824.8	1380.4	1396.7	1278.0	1229.2	1350.1	1456.0	1561.8
55°	8525.4	8349.8	7396.2	3338.7	1258.3	1246.6	1207.1	1117.6	1269.9	1383.9	1482.7
57.5°	8270.7	8061.4	7048.5	2538.7	1132.7	1059.4	1085.0	1018.7	1160.6	1303.6	1399.0
60°	6934.5	6746.1	5726.2	1351.3	996.6	885.0	938.5	948.9	1040.8	1207.1	1304.8
62.5°	4763.3	4626.1	3880.7	819.9	786.1	710.5	794.3	869.9	938.5	1079.2	1164.1
65°	2330.5	2289.8	1940.9	525.6	550.1	574.5	658.2	750.1	851.3	974.5	1064.1
67.5°	641.9	646.6	588.4	410.5	433.8	501.2	567.5	640.8	741.9	855.9	946.6
70°	282.6	287.2	296.5	316.3	360.5	422.1	490.8	566.3	659.4	754.7	842.0
72.5°	196.5	201.2	215.1	240.7	280.3	338.4	403.5	475.6	572.2	652.4	724.5
75°	120.9	124.4	137.2	159.3	186.1	230.3	294.2	360.5	445.4	518.7	582.6
77.5°	64.0	61.6	69.8	84.9	108.2	131.4	174.4	216.3	276.8	336.1	389.6
80°	34.9	33.7	38.4	46.5	53.5	72.1	101.2	129.1	164.0	197.7	226.8
82.5°	15.1	14.0	15.1	19.8	24.4	34.9	51.2	70.9	90.7	114.0	132.6
85°	0.0	0.0	0.0	1.2	5.8	9.3	17.4	25.6	37.2	51.2	62.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	10.5
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°	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8
2.5°	2444.5	2415.4	2413.1	2389.8	2392.1	2393.3	2370.0	2360.7	2368.9	2378.2	2373.5
5°	2337.5	2307.2	2294.4	2272.3	2270.0	2259.6	2250.2	2238.6	2246.8	2254.9	2259.6
7.5°	2244.4	2224.7	2216.5	2210.7	2213.0	2208.4	2189.8	2179.3	2178.1	2181.6	2186.3
10°	2214.2	2197.9	2208.4	2224.7	2236.3	2244.4	2224.7	2207.2	2190.9	2184.0	2184.0
12.5°	2279.3	2258.4	2279.3	2296.8	2320.0	2325.8	2303.7	2285.1	2279.3	2286.3	2300.3
15°	2423.5	2374.7	2373.5	2384.0	2402.6	2411.9	2391.0	2381.7	2381.7	2425.8	2460.7
17.5°	2567.7	2487.5	2453.8	2447.9	2459.6	2463.1	2445.6	2437.5	2458.4	2544.5	2609.6
20°	2668.9	2571.2	2497.9	2484.0	2487.5	2488.6	2474.7	2468.9	2499.1	2603.8	2658.4
22.5°	2658.4	2586.3	2496.8	2479.3	2485.2	2482.8	2470.0	2467.7	2492.1	2582.8	2608.4
25°	2586.3	2530.5	2454.9	2443.3	2452.6	2451.4	2438.6	2432.8	2443.3	2503.8	2506.1
27.5°	2503.8	2454.9	2389.8	2386.3	2401.4	2409.6	2387.5	2370.0	2366.5	2407.2	2397.9
30°	2404.9	2368.9	2316.5	2318.9	2346.8	2351.4	2324.7	2299.1	2292.1	2314.2	2301.4
32.5°	2287.5	2275.8	2247.9	2253.7	2280.5	2289.8	2261.9	2235.1	2227.0	2234.0	2207.2
35°	2187.5	2182.8	2185.1	2195.6	2218.8	2225.8	2202.6	2181.6	2170.0	2145.6	2110.7
37.5°	2084.0	2096.7	2130.5	2150.2	2163.0	2160.7	2147.9	2132.8	2114.2	2068.8	2025.8
40°	1987.4	2020.0	2080.5	2102.6	2107.2	2108.4	2099.1	2086.3	2063.0	2002.5	1953.7
42.5°	1913.0	1949.1	2029.3	2063.0	2065.3	2067.7	2058.4	2047.9	2015.3	1935.1	1887.4
45°	1835.1	1882.8	1977.0	2017.7	2015.3	2014.2	2006.0	2001.4	1963.0	1870.0	1817.6
47.5°	1768.8	1824.6	1925.8	1960.7	1959.5	1958.4	1952.5	1952.5	1914.2	1813.0	1753.7
50°	1703.7	1767.6	1873.5	1902.5	1904.9	1902.5	1900.2	1903.7	1858.3	1750.2	1692.0
52.5°	1632.7	1704.8	1815.3	1842.1	1856.0	1861.8	1861.8	1853.7	1800.2	1687.4	1623.4
55°	1554.8	1623.4	1751.4	1787.4	1799.0	1809.5	1809.5	1793.2	1743.2	1629.2	1560.6
57.5°	1458.3	1518.8	1619.9	1656.0	1683.9	1690.9	1690.9	1664.1	1623.4	1514.1	1458.3
60°	1353.6	1406.0	1474.6	1513.0	1533.9	1519.9	1530.4	1523.4	1490.9	1389.7	1343.2
62.5°	1214.1	1267.6	1343.2	1382.7	1392.0	1378.1	1392.0	1390.9	1346.7	1256.0	1200.1
65°	1114.1	1166.4	1240.8	1292.0	1307.1	1303.6	1312.9	1299.0	1244.3	1158.3	1104.8
67.5°	995.5	1051.3	1137.3	1194.3	1225.7	1229.2	1242.0	1212.9	1157.1	1062.9	995.5
70°	882.7	930.3	996.6	1050.1	1094.3	1116.4	1118.7	1076.9	1007.1	929.2	880.3
72.5°	764.0	812.9	893.1	951.3	1007.1	1032.7	1032.7	981.5	905.9	819.9	767.5
75°	619.8	665.2	738.5	801.3	865.2	897.8	896.6	852.4	768.7	687.3	632.6
77.5°	419.8	453.5	500.1	547.7	557.0	582.6	595.4	539.6	493.1	448.9	400.0
80°	244.2	265.1	290.7	317.5	323.3	331.4	310.5	289.6	265.1	236.1	214.0
82.5°	143.0	157.0	169.8	190.7	194.2	196.5	177.9	168.6	148.9	131.4	117.5
85°	69.8	74.4	86.1	96.5	91.9	89.5	81.4	72.1	64.0	57.0	50.0
87.5°	14.0	14.0	20.9	19.8	16.3	14.0	8.1	10.5	2.3	2.3	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°	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8
2.5°	2388.6	2408.4	2432.8	2465.4	2502.6	2542.1	2580.5	2609.6	2638.7	2681.7	2674.7
5°	2266.5	2300.3	2338.6	2388.6	2449.1	2517.7	2594.5	2671.2	2753.8	2823.6	2853.8
7.5°	2195.6	2232.8	2278.2	2343.3	2421.2	2504.9	2613.1	2737.5	2871.2	2963.1	3020.1
10°	2195.6	2243.3	2302.6	2365.4	2434.0	2520.0	2653.8	2809.6	2981.7	3102.7	3169.0
12.5°	2322.3	2370.0	2382.8	2380.5	2418.9	2514.2	2686.3	2885.2	3091.0	3219.0	3300.4
15°	2520.0	2536.3	2439.8	2351.4	2357.2	2472.4	2701.5	2945.7	3185.2	3338.7	3427.1
17.5°	2652.6	2609.6	2437.5	2282.8	2250.2	2401.4	2701.5	3003.8	3285.2	3458.5	3541.1
20°	2663.1	2556.1	2378.2	2216.5	2132.8	2307.2	2682.9	3048.0	3381.8	3573.6	3662.0
22.5°	2571.2	2465.4	2315.4	2159.5	2036.3	2193.3	2652.6	3081.7	3464.3	3681.8	3791.1
25°	2466.6	2378.2	2251.4	2101.4	1970.0	2078.1	2624.7	3138.7	3579.5	3828.3	3938.8
27.5°	2364.2	2289.8	2174.7	2052.6	1932.8	1978.1	2607.3	3222.4	3716.7	4036.5	4131.9
30°	2264.2	2196.8	2092.1	2006.0	1913.0	1913.0	2592.1	3319.0	3898.1	4270.2	4365.6
32.5°	2163.0	2099.1	2014.2	1960.7	1901.4	1887.4	2550.3	3409.7	4085.3	4526.1	4623.8
35°	2068.8	2004.9	1939.7	1917.7	1895.6	1867.6	2446.8	3480.6	4267.9	4825.0	4908.7
37.5°	1980.5	1918.8	1870.0	1864.2	1866.5	1814.2	2284.0	3539.9	4495.8	5130.8	5175.0
40°	1903.7	1835.1	1796.7	1795.5	1807.2	1728.1	2078.1	3624.8	4756.3	5390.1	5371.5
42.5°	1835.1	1763.0	1716.5	1726.9	1720.0	1642.0	1877.0	3702.7	4983.1	5633.2	5596.0
45°	1767.6	1697.9	1632.7	1647.9	1639.7	1588.5	1706.0	3759.7	5234.3	5925.1	5929.7
47.5°	1702.5	1633.9	1568.8	1550.2	1549.0	1572.3	1574.6	3778.3	5643.6	6394.9	6289.1
50°	1642.0	1573.4	1506.0	1443.2	1467.6	1539.7	1476.9	3764.4	6256.5	6913.6	6618.2
52.5°	1579.2	1514.1	1439.7	1326.9	1390.9	1461.8	1389.7	3714.4	6631.0	7371.7	7195.0
55°	1507.1	1445.5	1344.3	1207.1	1285.0	1300.1	1300.1	3230.6	6790.3	7825.3	7934.6
57.5°	1410.6	1329.2	1168.7	1058.3	1128.0	1069.9	1204.8	2260.7	6527.5	7682.2	8106.7
60°	1301.3	1214.1	1044.3	965.2	986.2	883.8	1026.9	1417.6	5409.9	6536.8	7271.7
62.5°	1157.1	1076.9	936.1	874.5	831.5	721.0	826.8	896.6	3708.5	4854.0	5355.2
65°	1060.6	972.2	846.6	765.2	676.8	580.3	548.9	588.4	1994.4	2716.6	3055.0
67.5°	946.6	859.4	740.8	638.4	567.5	497.7	443.1	429.1	683.8	904.8	979.2
70°	838.5	754.7	655.9	560.5	489.6	421.0	367.5	329.1	316.3	314.0	309.3
72.5°	728.0	650.1	567.5	479.1	401.2	338.4	290.7	246.5	227.9	222.1	216.3
75°	596.6	534.9	452.4	357.0	294.2	236.1	198.9	169.8	153.5	147.7	140.7
77.5°	383.8	355.9	283.8	230.3	177.9	140.7	120.9	102.3	91.9	89.5	83.7
80°	204.7	190.7	157.0	132.6	105.8	86.1	75.6	65.1	59.3	57.0	54.7
82.5°	114.0	103.5	87.2	76.8	61.6	52.3	46.5	41.9	38.4	37.2	36.1
85°	51.2	44.2	34.9	32.6	29.1	26.7	25.6	23.3	22.1	20.9	19.8
87.5°	2.3	4.7	5.8	4.7	4.7	7.0	8.1	8.1	7.0	7.0	5.8
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°	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8
2.5°	2717.7	2752.6	2756.1	2767.7	2752.6	2749.1	2724.7	2710.8	2698.0	2694.5
5°	2929.4	2999.2	3027.1	3046.8	3028.2	3018.9	2965.4	2909.6	2878.2	2863.1
7.5°	3146.9	3251.5	3306.2	3330.6	3332.9	3291.1	3199.2	3094.5	3042.2	3022.4
10°	3341.1	3470.1	3542.3	3588.8	3572.5	3521.3	3395.7	3253.8	3187.6	3170.1
12.5°	3485.3	3608.5	3664.4	3694.6	3693.4	3665.5	3546.9	3393.4	3317.8	3300.4
15°	3578.3	3651.6	3655.1	3662.0	3681.8	3719.0	3657.4	3515.5	3431.8	3407.4
17.5°	3651.6	3622.5	3567.8	3549.2	3593.4	3696.9	3734.1	3619.0	3528.3	3507.4
20°	3698.1	3551.6	3455.0	3419.0	3470.1	3638.8	3780.6	3712.0	3617.8	3591.1
22.5°	3734.1	3485.3	3329.4	3305.0	3358.5	3576.0	3828.3	3822.5	3719.0	3681.8
25°	3791.1	3441.1	3241.1	3223.6	3273.6	3545.7	3892.3	3972.5	3880.7	3827.2
27.5°	3880.7	3436.4	3195.7	3189.9	3258.5	3572.5	3984.2	4192.3	4077.2	4037.7
30°	4005.1	3480.6	3206.2	3217.8	3301.5	3669.0	4127.2	4443.5	4328.4	4266.7
32.5°	4184.2	3599.2	3365.5	3415.5	3477.1	3823.7	4336.5	4715.6	4628.4	4537.7
35°	4420.3	3924.9	3836.5	4049.3	3991.1	4162.1	4588.9	5045.9	4940.1	4861.0
37.5°	4735.4	4592.4	4673.8	4966.8	4826.1	4801.7	4897.1	5345.9	5287.8	5208.7
40°	5177.3	5206.4	5356.4	5741.3	5537.8	5380.8	5275.0	5571.5	5591.3	5493.6
42.5°	5470.4	5604.1	5965.8	6403.0	6122.8	5747.1	5591.3	5859.9	5861.1	5772.7
45°	5579.7	5929.7	6685.6	7189.2	6720.5	5956.5	5765.8	6251.9	6240.2	6139.0
47.5°	5540.1	6204.2	7433.4	8203.2	7488.0	6105.3	5741.3	6810.1	6904.2	6750.7
50°	5457.6	6479.8	8306.7	9445.2	8430.0	6263.5	5704.1	7428.7	7584.6	7465.9
52.5°	5541.3	6786.8	9339.4	10729.1	9611.5	6515.8	5955.3	8223.0	8195.1	8052.0
55°	5806.5	7149.6	10594.2	12342.1	10909.3	6942.6	6600.7	8980.1	8696.3	8525.4
57.5°	5793.7	7409.0	11694.3	13617.8	12038.5	7292.7	6825.2	9060.3	8487.0	8270.7
60°	5258.7	7290.3	12113.0	14424.8	12379.3	7099.6	6086.7	8092.8	7161.3	6934.5
62.5°	3924.9	6469.3	11301.2	13414.3	11415.2	6132.1	4577.2	5808.8	5145.9	4763.3
65°	2510.7	5061.0	9501.0	10867.5	9409.2	4690.1	2725.9	3114.3	2439.8	2330.5
67.5°	1068.7	3572.5	7385.7	7263.6	7039.1	3038.7	1052.4	876.8	653.6	641.9
70°	353.5	2430.5	4552.8	4844.7	4204.0	2093.3	347.7	294.2	293.1	282.6
72.5°	231.4	1304.8	2563.1	2853.8	2704.9	1204.8	210.5	196.5	201.2	196.5
75°	138.4	283.8	431.4	560.5	431.4	202.3	126.8	124.4	126.8	120.9
77.5°	81.4	79.1	76.8	76.8	75.6	69.8	64.0	61.6	62.8	64.0
80°	52.3	50.0	47.7	46.5	40.7	38.4	36.1	33.7	33.7	34.9
82.5°	33.7	31.4	29.1	25.6	20.9	17.4	16.3	14.0	14.0	15.1
85°	17.4	14.0	10.5	8.1	4.7	2.3	0.0	0.0	0.0	0.0
87.5°	3.5	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)