

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: P636231

Luminaire Tested: GWS-SA3F-735-U-SLR-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636231  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-735-U-SLR-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

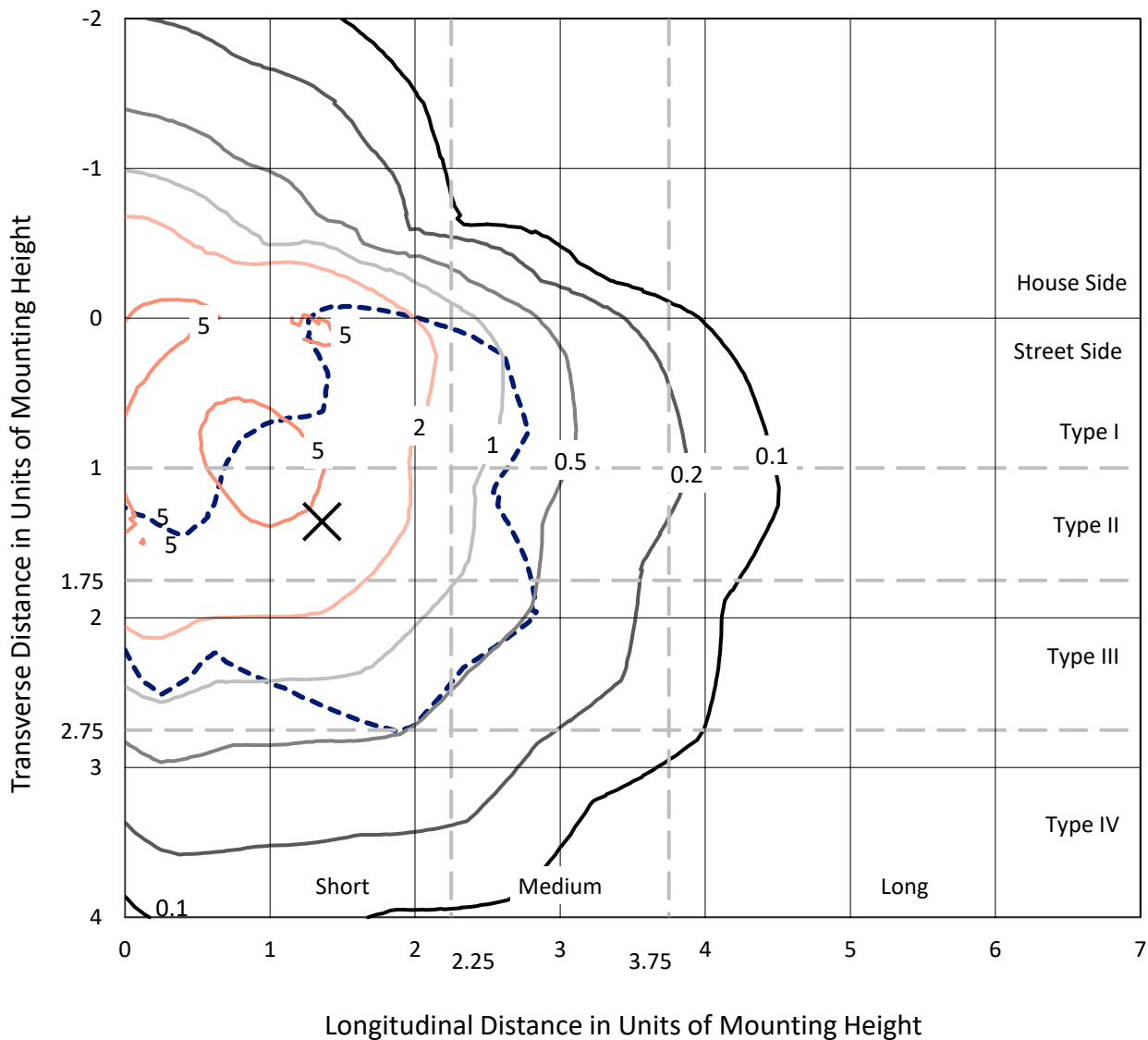
Lumens per Lamp: N/A  
Luminaire Lumens: 22833.6 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

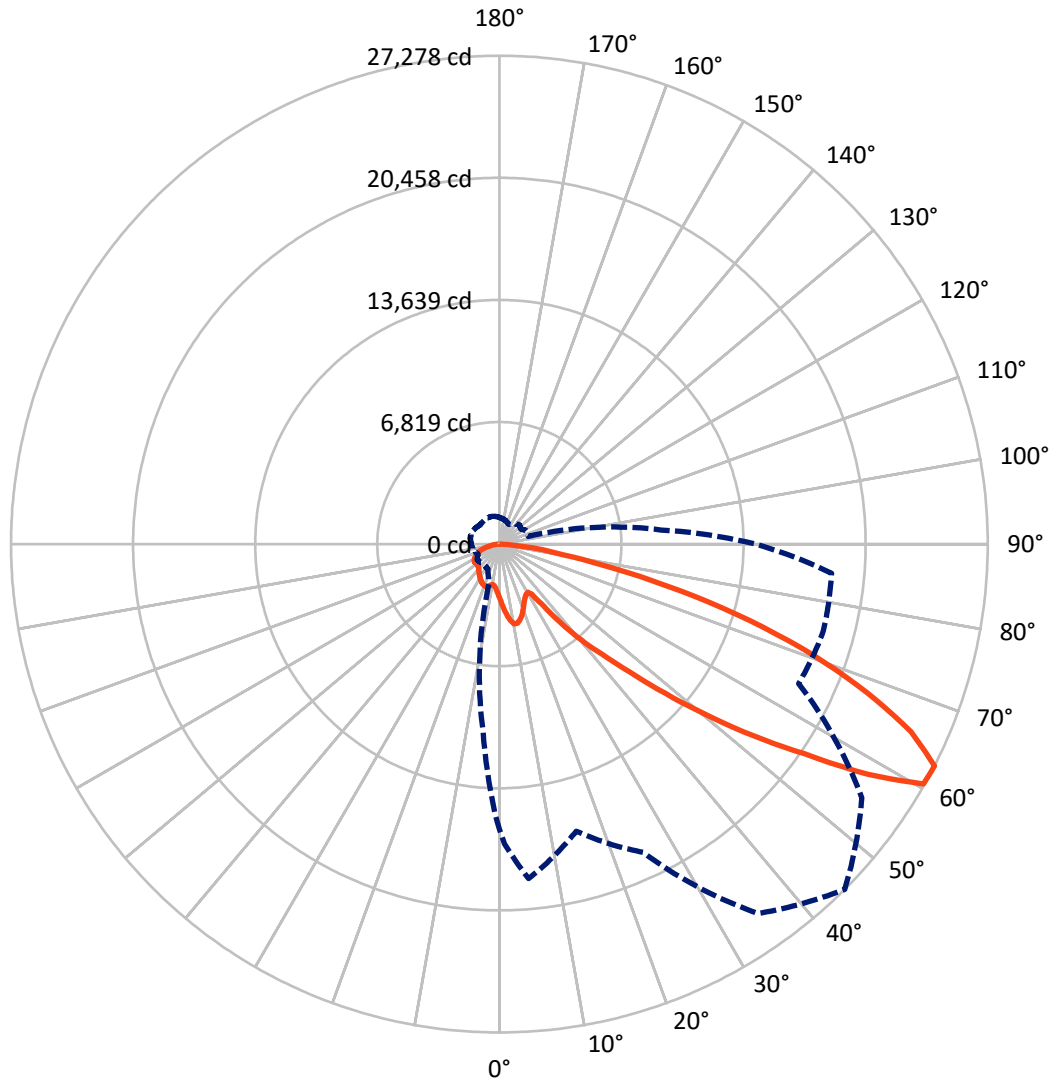
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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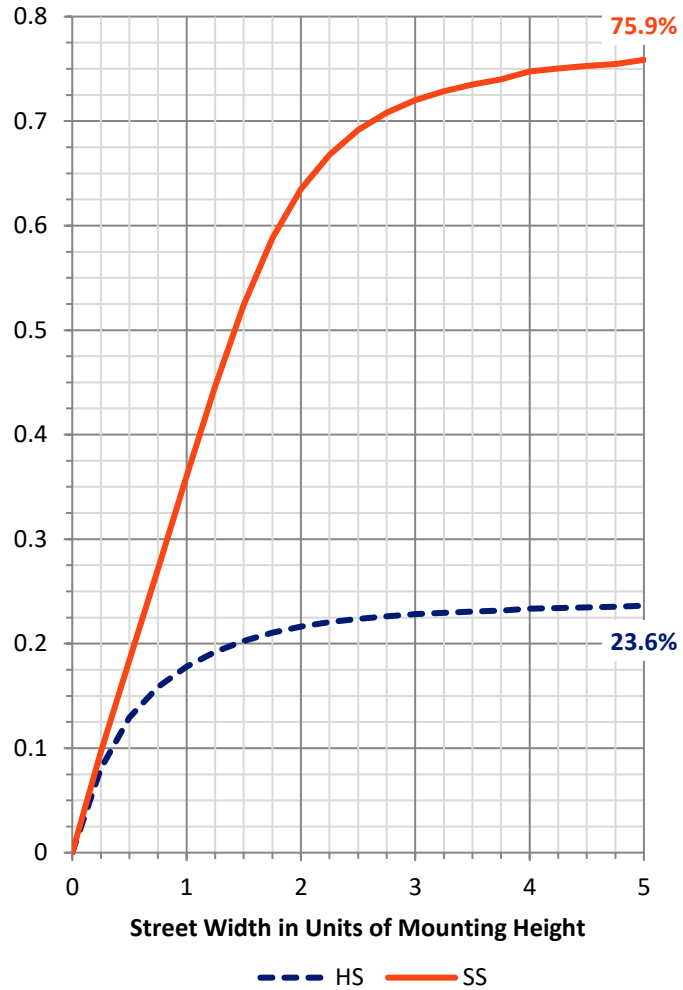
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5448.5	0.0	5448.5
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	17385.1	0.0	17385.1
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	22833.6	0.0	22833.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.0	1.3
10°-20°	927.8	4.1
20°-30°	1441.1	6.3
30°-40°	1956.6	8.6
40°-50°	3101.1	13.6
50°-60°	5470.3	24.0
60°-70°	6086.5	26.7
70°-80°	3086.9	13.5
80°-90°	467.4	2.0
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°	22833.6	100.0
0°-180°	22833.6	100.0

**Coefficient of Utilization**



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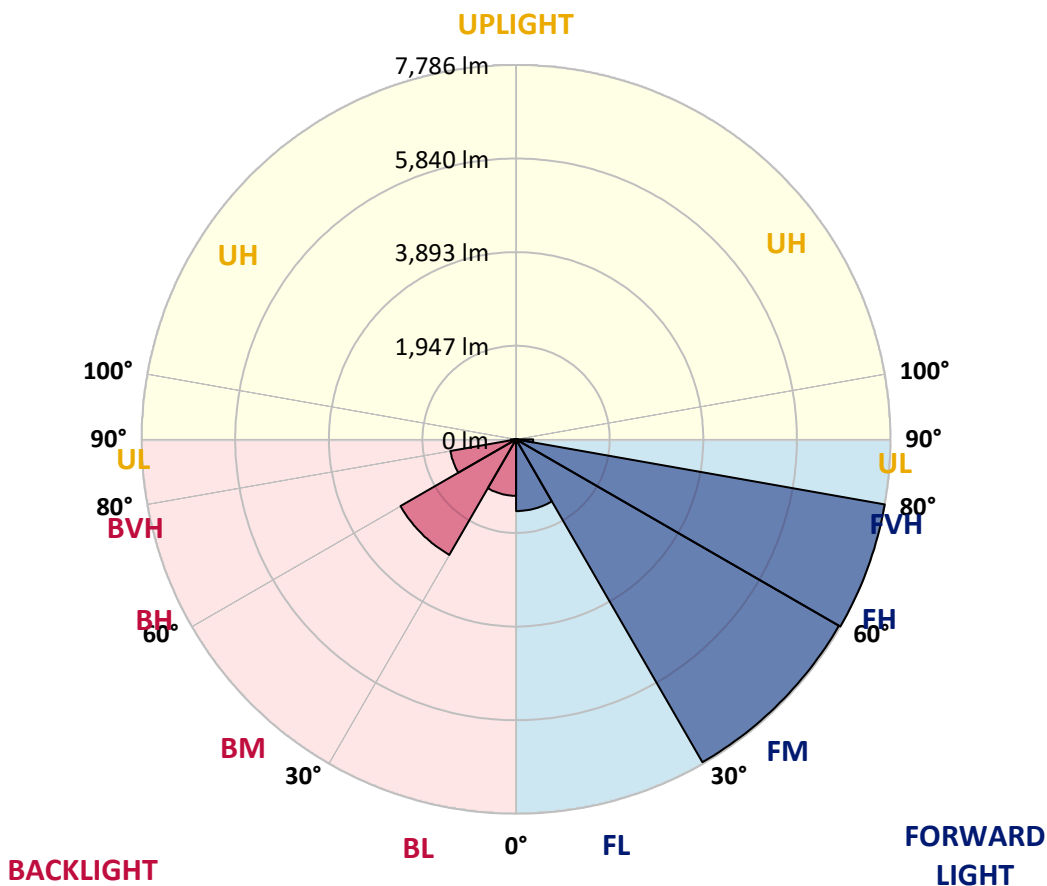
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1490.8	6.5			
FM (30°-60°)	7753.0	34.0			
FH (60°-80°)	7786.5	34.1			G4/12000
FVH (80°-90°)	354.8	1.6			G3/500
BL (0°-30°)	1174.0	5.1	B3/2500		
BM (30°-60°)	2775.0	12.2	B3/5000		
BH (60°-80°)	1386.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	112.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5
2.5°	3257.0	3255.2	3288.1	3338.2	3384.9	3405.6	3440.2	3436.7	3409.1	3372.8	3360.7
5°	3512.8	3519.7	3576.8	3687.4	3810.1	3862.0	3884.5	3875.8	3825.7	3761.7	3649.4
7.5°	3744.5	3756.6	3844.7	4010.7	4162.8	4232.0	4287.3	4276.9	4204.3	4085.0	3919.1
10°	3913.9	3927.7	4033.2	4228.5	4397.9	4458.4	4529.3	4532.8	4468.8	4308.0	4138.6
12.5°	4083.3	4097.1	4195.7	4373.7	4484.4	4486.1	4527.6	4550.0	4553.5	4479.2	4309.8
15°	4259.6	4271.7	4361.6	4461.9	4456.7	4359.9	4359.9	4403.1	4498.2	4551.8	4434.2
17.5°	4410.0	4425.6	4494.7	4461.9	4308.0	4133.4	4112.7	4168.0	4334.0	4539.7	4527.6
20°	4534.5	4546.6	4584.6	4366.8	4086.7	3858.6	3818.8	3882.8	4107.5	4465.3	4598.5
22.5°	4653.8	4660.7	4639.9	4242.3	3848.2	3587.1	3538.7	3606.2	3848.2	4334.0	4659.0
25°	4795.5	4788.6	4690.1	4112.7	3630.4	3372.8	3322.6	3398.7	3651.1	4159.4	4724.7
27.5°	4959.8	4933.8	4733.3	3972.6	3462.7	3213.7	3179.2	3260.4	3495.5	3998.6	4776.5
30°	5099.8	5049.7	4740.2	3848.2	3376.2	3146.3	3125.6	3201.6	3419.5	3889.7	4842.2
32.5°	5255.4	5186.2	4780.0	3815.3	3424.6	3308.8	3336.5	3341.7	3440.2	3858.6	4940.7
35°	5478.4	5388.5	4888.9	3910.4	3922.5	4117.9	4218.1	4083.3	3753.1	3927.7	5127.4
37.5°	5815.5	5701.4	5110.2	4321.9	4951.1	5388.5	5630.5	5322.8	4703.9	4188.7	5409.2
40°	6225.2	6080.0	5393.7	5082.5	5912.3	6612.4	7042.9	6591.7	5682.4	4840.5	5805.1
42.5°	6797.4	6645.3	5943.4	5829.3	6802.6	7845.0	8406.9	7734.4	6545.0	5682.4	6439.6
45°	7794.9	7648.0	6951.3	6577.9	7845.0	9362.9	10151.2	9215.9	7421.5	6527.7	7625.5
47.5°	9637.7	9464.9	8448.4	7407.7	9034.4	11333.6	12436.6	11074.3	8332.5	7495.8	9617.0
50°	11850.5	11684.6	10327.5	8389.6	10348.3	13441.0	14974.4	13257.7	9381.9	8673.1	11997.5
52.5°	14512.8	14481.7	13008.8	9630.8	11715.7	15688.3	17790.5	15676.2	10531.5	10258.4	14694.3
55°	16912.3	17216.5	16414.4	11523.8	13482.5	18511.4	20686.1	18314.3	12090.8	12879.1	17852.7
57.5°	18205.4	19023.1	20255.7	15385.8	16051.4	21885.9	24259.4	21534.9	14770.4	17242.5	20781.2
60°	17351.4	18278.0	20511.5	18293.5	18599.5	24589.6	27208.7	24242.2	17401.5	20271.2	20615.3
62.5°	15930.4	16761.9	18748.2	16595.9	18993.7	25184.3	27277.8	24714.1	18447.4	18734.4	18622.0
65°	14244.8	15083.3	17187.2	14486.9	17740.4	23771.9	25265.6	23325.9	16568.3	16926.1	16967.6
67.5°	12006.1	12780.6	14922.5	12880.9	16170.7	21699.2	22176.3	21348.2	15257.9	15828.4	15231.9
70°	8970.4	9668.9	11560.1	10467.5	13631.1	18998.9	18613.4	18736.1	13786.7	14353.7	12723.5
72.5°	6130.1	6655.7	8277.2	8225.4	10438.1	15209.5	14671.8	15835.3	11515.2	12267.2	9700.0
75°	4287.3	4697.0	5983.2	6498.3	7890.0	11273.1	10448.5	11852.3	8992.9	10066.5	7077.5
77.5°	2631.1	2902.6	3779.0	4814.5	5075.6	7715.4	6489.7	8918.6	6315.1	7342.0	4721.2
80°	1315.6	1447.0	1835.9	3027.0	3365.9	4546.6	3583.7	5177.6	4273.5	4546.6	2612.1
82.5°	397.6	439.1	537.6	1149.6	1744.3	2617.3	2117.7	3008.0	2333.8	2131.5	1028.6
85°	105.5	119.3	148.7	340.6	612.0	938.7	715.7	1457.3	1118.5	786.6	387.2
87.5°	8.6	8.6	6.9	6.9	3.5	0.0	0.0	103.7	209.2	119.3	67.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5
2.5°	3300.2	3293.3	3222.4	3170.5	3110.0	3051.2	2990.7	2937.1	2876.6	2816.1	2798.8
5°	3566.4	3518.0	3367.6	3241.4	3116.9	3008.0	2912.9	2814.4	2734.9	2657.1	2627.7
7.5°	3801.5	3716.8	3499.0	3307.1	3134.2	2999.4	2859.3	2715.9	2603.5	2492.8	2465.2
10°	4014.1	3901.8	3626.9	3384.9	3193.0	3039.1	2874.9	2683.0	2520.5	2385.7	2349.4
12.5°	4171.5	4048.7	3737.5	3459.2	3241.4	3068.5	2906.0	2736.6	2565.5	2390.9	2351.1
15°	4295.9	4168.0	3829.2	3516.3	3243.1	3020.1	2862.8	2804.0	2750.4	2579.3	2506.7
17.5°	4396.2	4261.3	3908.7	3550.8	3196.4	2873.2	2736.6	2823.0	2959.6	2852.4	2715.9
20°	4487.8	4351.2	3969.2	3575.0	3092.7	2670.9	2594.8	2778.1	2983.8	2980.4	2857.6
22.5°	4588.1	4455.0	4057.4	3588.9	2947.5	2465.2	2510.1	2712.4	2880.1	2930.2	2854.2
25°	4716.0	4598.5	4180.1	3620.0	2783.3	2323.4	2447.9	2627.7	2767.7	2779.8	2734.9
27.5°	4864.7	4776.5	4363.3	3692.6	2624.2	2250.8	2375.3	2508.4	2636.3	2641.5	2587.9
30°	5027.2	4968.4	4532.8	3753.1	2504.9	2228.3	2281.9	2389.1	2470.4	2484.2	2437.5
32.5°	5234.6	5182.8	4683.2	3713.3	2434.1	2223.2	2195.5	2250.8	2318.2	2318.2	2281.9
35°	5519.9	5447.3	4842.2	3561.2	2347.6	2202.4	2103.9	2119.4	2148.8	2154.0	2133.3
37.5°	5924.4	5805.1	5003.0	3260.4	2205.9	2128.1	1998.4	1979.4	1989.8	2003.6	1998.4
40°	6425.7	6230.4	5238.1	2899.1	2036.5	1984.6	1889.5	1853.2	1844.6	1872.2	1882.6
42.5°	7056.7	6757.7	5490.5	2562.0	1882.6	1820.4	1761.6	1730.5	1716.6	1763.3	1791.0
45°	8064.6	7571.9	5732.5	2228.3	1796.2	1680.3	1640.6	1618.1	1625.0	1680.3	1714.9
47.5°	9805.4	8814.9	5962.4	2017.4	1789.2	1580.1	1531.7	1536.9	1555.9	1614.6	1656.1
50°	12007.8	10479.6	6116.3	1929.3	1810.0	1519.6	1455.6	1483.3	1512.6	1569.7	1618.1
52.5°	14250.0	12030.3	5933.0	1880.9	1808.3	1521.3	1384.7	1467.7	1481.5	1538.6	1590.4
55°	15792.1	12203.2	5125.7	1806.5	1780.6	1590.4	1329.4	1460.8	1469.4	1521.3	1568.0
57.5°	16379.8	11612.0	3908.7	1827.3	1697.6	1644.0	1305.2	1412.4	1474.6	1519.6	1568.0
60°	15669.3	10496.9	2375.3	1880.9	1564.5	1640.6	1320.8	1324.2	1431.4	1507.5	1555.9
62.5°	14329.5	9065.5	1668.2	1728.7	1467.7	1549.0	1357.1	1220.5	1355.3	1447.0	1490.2
65°	12794.4	7381.7	1272.4	1488.4	1421.0	1407.2	1369.2	1128.9	1251.6	1341.5	1379.5
67.5°	11195.3	5737.7	1033.8	1109.9	1284.5	1272.4	1251.6	1047.6	1128.9	1192.8	1236.1
70°	9181.3	4014.1	873.0	833.3	1101.2	1141.0	1094.3	945.6	971.6	1037.2	1071.8
72.5°	6716.2	2501.5	717.4	688.0	885.1	997.5	973.3	833.3	845.4	907.6	935.2
75°	4830.1	1431.4	575.7	567.0	675.9	854.0	805.6	717.4	731.3	777.9	797.0
77.5°	3070.2	797.0	444.3	456.4	484.0	637.9	688.0	613.7	613.7	641.4	656.9
80°	1644.0	456.4	325.0	330.2	338.8	487.5	542.8	475.4	475.4	456.4	475.4
82.5°	670.8	262.8	223.0	207.4	226.5	333.6	380.3	302.5	316.4	285.2	292.2
85°	221.3	131.4	110.6	108.9	107.2	146.9	183.2	150.4	179.8	114.1	119.3
87.5°	29.4	24.2	13.8	10.4	12.1	5.2	10.4	12.1	12.1	8.6	8.6
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5
2.5°	2786.7	2772.9	2722.8	2734.9	2726.2	2712.4	2726.2	2700.3	2721.0	2728.0	2771.2
5°	2605.2	2572.4	2524.0	2499.8	2494.6	2480.7	2482.5	2470.4	2473.8	2503.2	2551.6
7.5°	2442.7	2411.6	2373.6	2356.3	2340.7	2325.2	2323.4	2321.7	2335.5	2361.5	2408.1
10°	2325.2	2307.9	2292.3	2299.2	2292.3	2285.4	2273.3	2273.3	2295.8	2342.4	2399.5
12.5°	2325.2	2321.7	2325.2	2345.9	2344.2	2345.9	2330.3	2339.0	2401.2	2480.7	2562.0
15°	2449.6	2422.0	2422.0	2432.3	2428.9	2428.9	2428.9	2465.2	2606.9	2729.7	2816.1
17.5°	2601.8	2520.5	2485.9	2480.7	2479.0	2479.0	2485.9	2563.7	2785.0	2914.7	2964.8
20°	2707.2	2553.4	2496.3	2473.8	2475.6	2479.0	2499.8	2606.9	2850.7	2916.4	2904.3
22.5°	2726.2	2527.4	2458.3	2425.4	2430.6	2434.1	2465.2	2579.3	2760.8	2771.2	2747.0
25°	2638.1	2454.8	2380.5	2354.5	2361.5	2359.7	2387.4	2470.4	2600.0	2596.6	2582.7
27.5°	2506.7	2339.0	2283.7	2266.4	2278.5	2264.7	2273.3	2337.3	2437.5	2434.1	2428.9
30°	2371.8	2226.6	2176.5	2167.8	2183.4	2162.7	2164.4	2218.0	2287.1	2283.7	2281.9
32.5°	2237.0	2114.3	2069.3	2069.3	2084.9	2062.4	2065.8	2112.5	2159.2	2145.4	2145.4
35°	2109.1	2022.6	1986.3	1979.4	1991.5	1976.0	1982.9	2026.1	2043.4	2024.4	2012.3
37.5°	1996.7	1958.7	1922.4	1898.2	1899.9	1901.6	1922.4	1955.2	1944.8	1917.2	1901.6
40°	1893.0	1893.0	1858.4	1813.5	1808.3	1820.4	1854.9	1891.2	1861.9	1830.7	1811.7
42.5°	1818.6	1834.2	1801.3	1756.4	1746.0	1766.8	1804.8	1830.7	1796.2	1761.6	1735.7
45°	1749.5	1787.5	1765.0	1714.9	1701.1	1725.3	1773.7	1784.1	1737.4	1704.5	1685.5
47.5°	1701.1	1752.9	1737.4	1689.0	1668.2	1702.8	1752.9	1751.2	1692.4	1657.9	1642.3
50°	1666.5	1732.2	1730.5	1689.0	1666.5	1709.7	1754.7	1732.2	1668.2	1631.9	1616.4
52.5°	1638.8	1730.5	1742.6	1718.4	1702.8	1740.8	1768.5	1725.3	1650.9	1612.9	1600.8
55°	1626.7	1737.4	1746.0	1723.6	1709.7	1744.3	1768.5	1739.1	1650.9	1616.4	1606.0
57.5°	1630.2	1728.7	1730.5	1699.4	1675.2	1718.4	1756.4	1747.8	1670.0	1630.2	1618.1
60°	1609.5	1682.1	1685.5	1637.1	1609.5	1661.3	1728.7	1723.6	1661.3	1619.8	1597.4
62.5°	1540.3	1604.3	1606.0	1561.1	1521.3	1595.6	1670.0	1668.2	1611.2	1569.7	1543.8
65°	1424.5	1491.9	1509.2	1466.0	1434.9	1514.4	1592.2	1588.7	1531.7	1493.6	1467.7
67.5°	1281.0	1353.6	1386.5	1357.1	1345.0	1417.6	1490.2	1488.4	1441.8	1405.5	1383.0
70°	1106.4	1166.9	1222.2	1222.2	1213.6	1296.6	1374.4	1367.4	1324.2	1296.6	1279.3
72.5°	961.2	1007.9	1025.1	1042.4	1068.4	1154.8	1220.5	1225.7	1194.6	1180.7	1194.6
75°	817.7	847.1	862.6	848.8	893.8	983.7	1070.1	1078.7	1045.9	1023.4	1028.6
77.5°	672.5	705.3	720.9	689.8	686.3	800.4	905.9	924.9	897.2	862.6	873.0
80°	485.8	529.0	554.9	534.2	527.3	577.4	722.6	743.4	717.4	689.8	705.3
82.5°	297.3	321.5	328.5	349.2	392.4	413.2	465.0	534.2	515.2	491.0	534.2
85°	117.6	140.0	155.6	176.3	205.7	243.8	287.0	342.3	311.2	300.8	354.4
87.5°	6.9	1.7	0.0	3.5	29.4	57.0	122.7	169.4	141.8	152.1	183.2
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°	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5	3030.5
2.5°	2805.7	2850.7	2911.2	2961.3	3025.3	3085.8	3148.0	3210.3	3243.1	3257.0
5°	2606.9	2689.9	2786.7	2893.9	3018.4	3149.8	3282.9	3419.5	3505.9	3512.8
7.5°	2487.7	2606.9	2740.1	2874.9	3028.8	3210.3	3421.2	3632.1	3720.3	3744.5
10°	2525.7	2658.8	2764.3	2890.5	3059.9	3286.3	3535.3	3782.5	3884.5	3913.9
12.5°	2677.8	2703.8	2736.6	2852.4	3059.9	3352.0	3652.8	3946.7	4055.6	4083.3
15°	2804.0	2679.6	2620.8	2743.5	3018.4	3409.1	3777.3	4102.3	4233.7	4259.6
17.5°	2814.4	2600.0	2472.1	2582.7	2945.8	3448.8	3896.6	4275.2	4385.8	4410.0
20°	2708.9	2515.3	2349.4	2416.8	2847.2	3466.1	3983.0	4401.4	4510.3	4534.5
22.5°	2589.7	2446.2	2266.4	2262.9	2728.0	3485.1	4086.7	4520.7	4638.2	4653.8
25°	2477.3	2351.1	2199.0	2150.6	2589.7	3521.4	4226.8	4700.4	4790.3	4795.5
27.5°	2345.9	2249.1	2145.4	2098.7	2468.6	3590.6	4434.2	4914.8	4968.4	4959.8
30°	2226.6	2154.0	2107.3	2093.5	2392.6	3642.5	4631.3	5125.7	5129.2	5099.8
32.5°	2100.4	2072.8	2072.8	2117.7	2330.3	3630.4	4792.1	5331.4	5298.6	5255.4
35°	1988.1	1993.2	2029.5	2135.0	2226.6	3509.3	4945.9	5589.0	5540.6	5478.4
37.5°	1880.9	1920.6	1972.5	2074.5	2090.0	3329.6	5125.7	5953.8	5893.3	5815.5
40°	1789.2	1849.8	1910.3	1960.4	1944.8	3073.7	5376.4	6382.5	6315.1	6225.2
42.5°	1716.6	1775.4	1842.8	1848.0	1853.2	2807.5	5642.6	6908.1	6896.0	6797.4
45°	1670.0	1708.0	1772.0	1763.3	1848.0	2513.6	5888.1	7710.2	7869.2	7794.9
47.5°	1638.8	1668.2	1675.2	1711.5	1893.0	2250.8	6204.5	9279.9	9722.4	9637.7
50°	1621.6	1650.9	1573.2	1714.9	1899.9	2081.4	6641.8	11250.7	11962.9	11850.5
52.5°	1619.8	1612.9	1495.4	1751.2	1861.9	1977.7	6870.0	12689.0	14269.0	14512.8
55°	1623.3	1536.9	1455.6	1761.6	1785.8	1939.6	6105.9	13380.5	16397.1	16912.3
57.5°	1592.2	1453.9	1478.1	1720.1	1642.3	2041.6	4513.7	13133.3	17247.7	18205.4
60°	1533.4	1374.4	1519.6	1607.7	1495.4	1867.0	3108.3	12030.3	16366.0	17351.4
62.5°	1448.7	1319.0	1514.4	1462.5	1441.8	1528.2	2136.7	10486.5	14967.4	15930.4
65°	1353.6	1274.1	1433.1	1322.5	1334.6	1175.5	1510.9	8744.0	13297.5	14244.8
67.5°	1251.6	1246.4	1313.8	1177.3	1127.1	931.8	1101.2	7008.3	11152.1	12006.1
70°	1135.8	1173.8	1194.6	1045.9	914.5	731.3	817.7	4901.0	8227.1	8970.4
72.5°	1020.0	1023.4	1052.8	909.3	684.6	586.0	613.7	2968.3	5589.0	6130.1
75°	902.4	869.6	897.2	739.9	510.0	480.6	473.7	1834.2	3860.3	4287.3
77.5°	776.2	739.9	703.6	556.7	409.7	371.7	363.0	1028.6	2368.4	2631.1
80°	631.0	582.6	525.5	408.0	299.1	266.2	264.5	501.3	1180.7	1315.6
82.5°	491.0	399.3	383.8	254.1	185.0	162.5	172.9	191.9	356.1	397.6
85°	344.0	290.4	204.0	102.0	83.0	67.4	65.7	57.0	95.1	105.5
87.5°	191.9	126.2	65.7	12.1	13.8	15.6	12.1	8.6	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)