

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: P637056

Luminaire Tested: GWS-SA4C-722-U-SLR-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637056  
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-SA4C-722-U-SLR-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

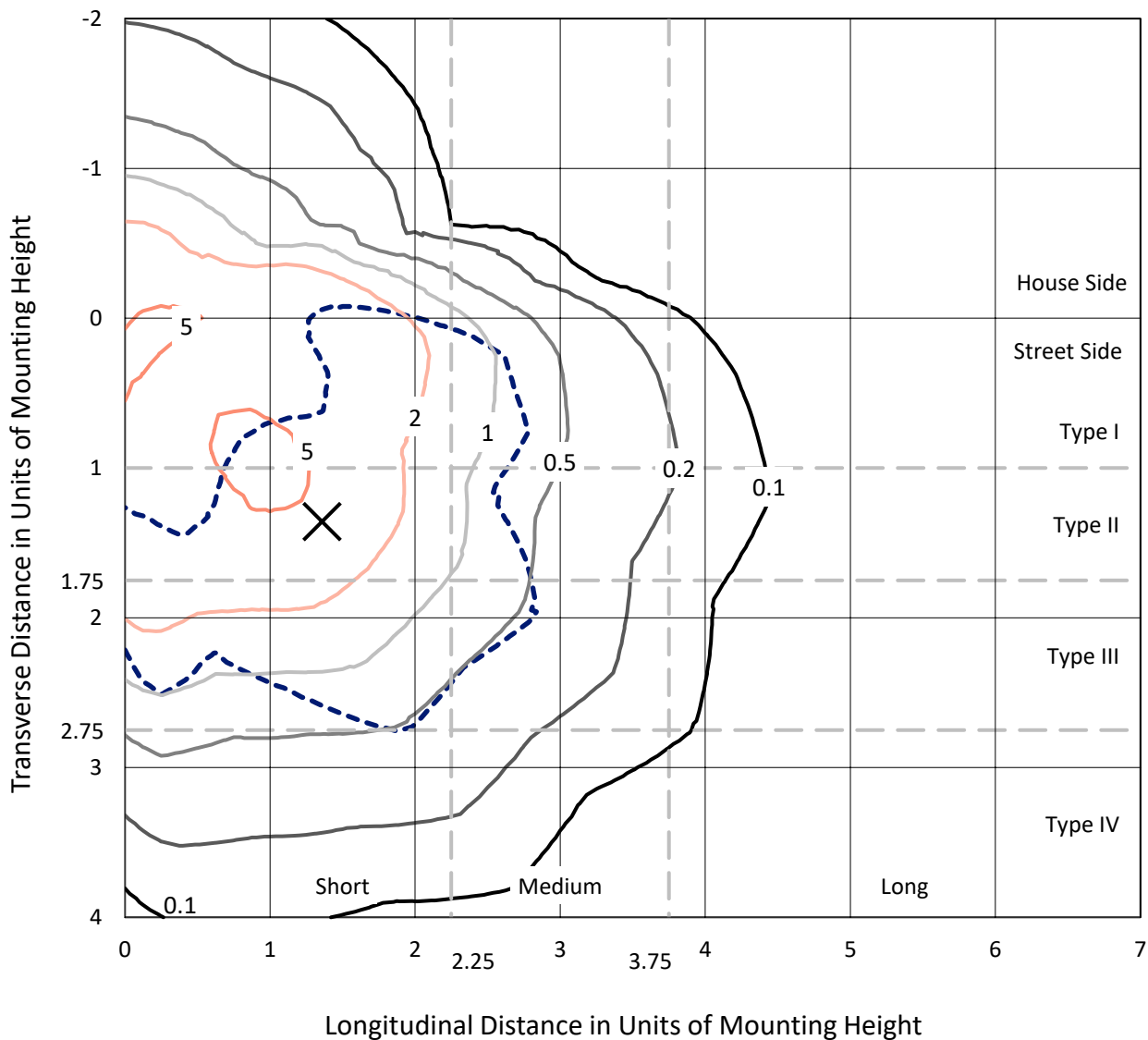
Lumens per Lamp: N/A  
Luminaire Lumens: 13538.5 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): 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

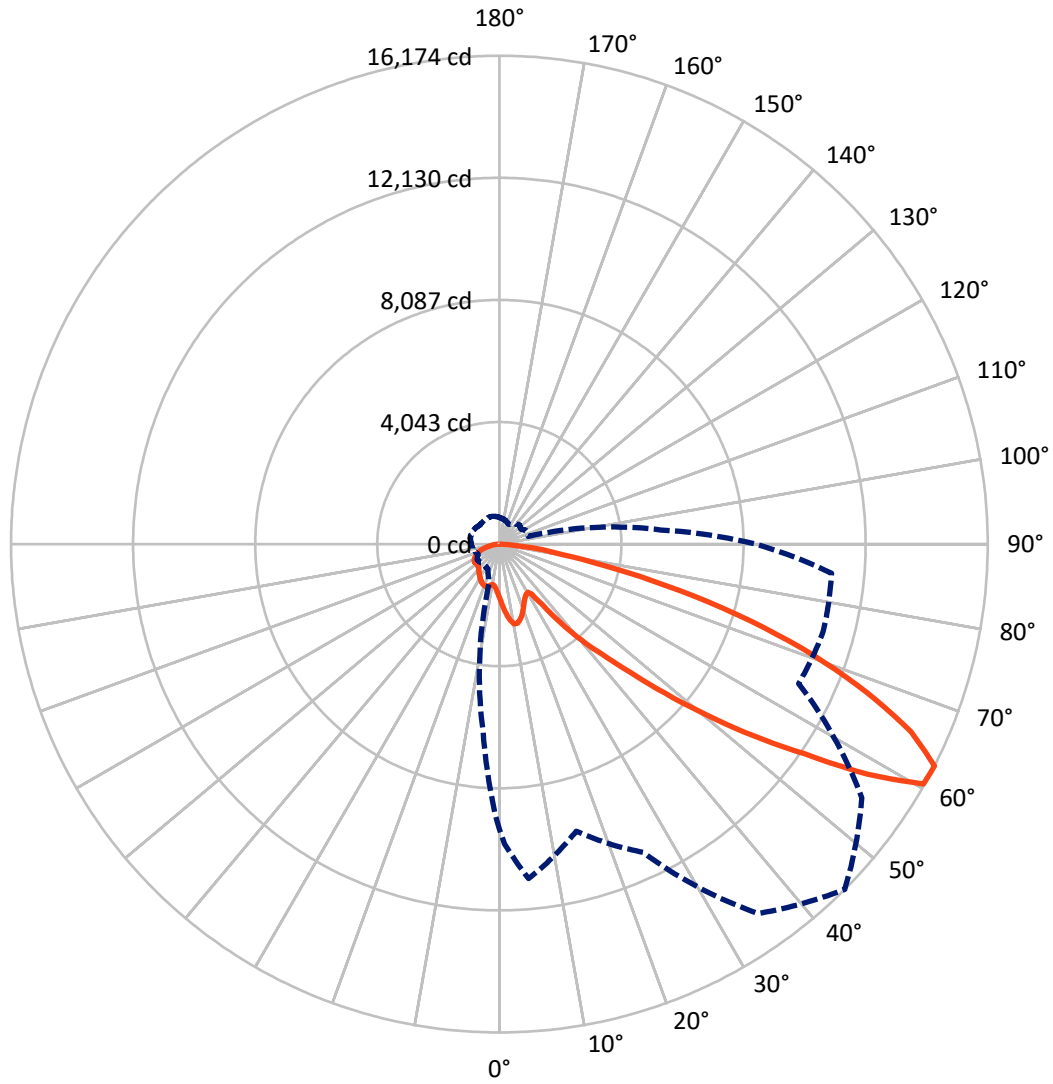
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 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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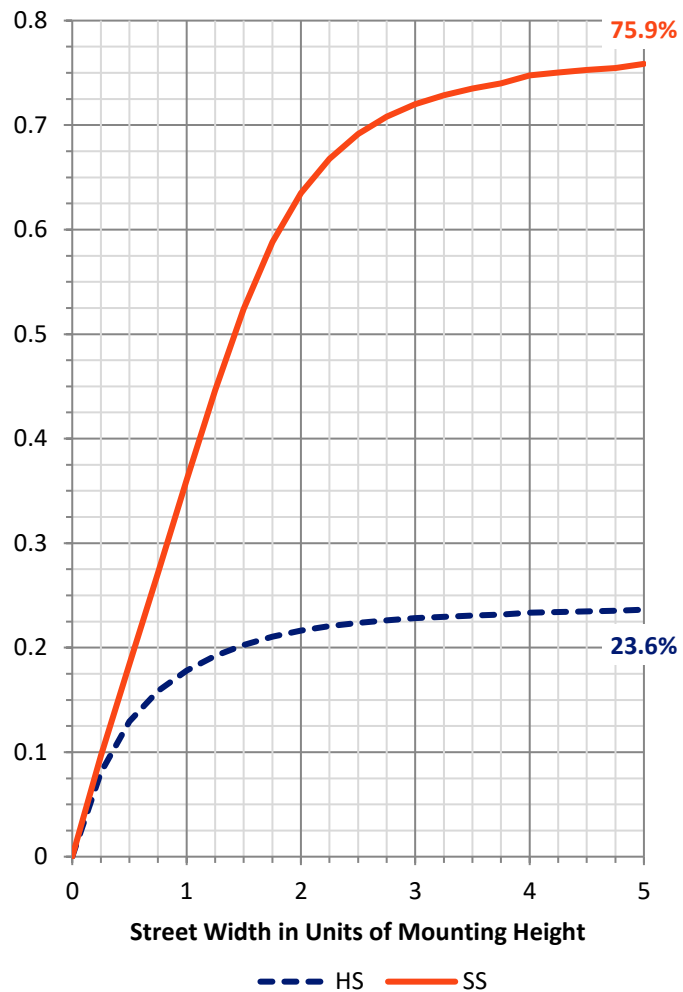
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3230.6	0.0	3230.6
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	10308.0	0.0	10308.0
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	13538.5	0.0	13538.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	1.3
10°-20°	550.1	4.1
20°-30°	854.5	6.3
30°-40°	1160.1	8.6
40°-50°	1838.7	13.6
50°-60°	3243.4	24.0
60°-70°	3608.8	26.7
70°-80°	1830.3	13.5
80°-90°	277.2	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°	13538.5	100.0
0°-180°	13538.5	100.0

**Coefficient of Utilization**



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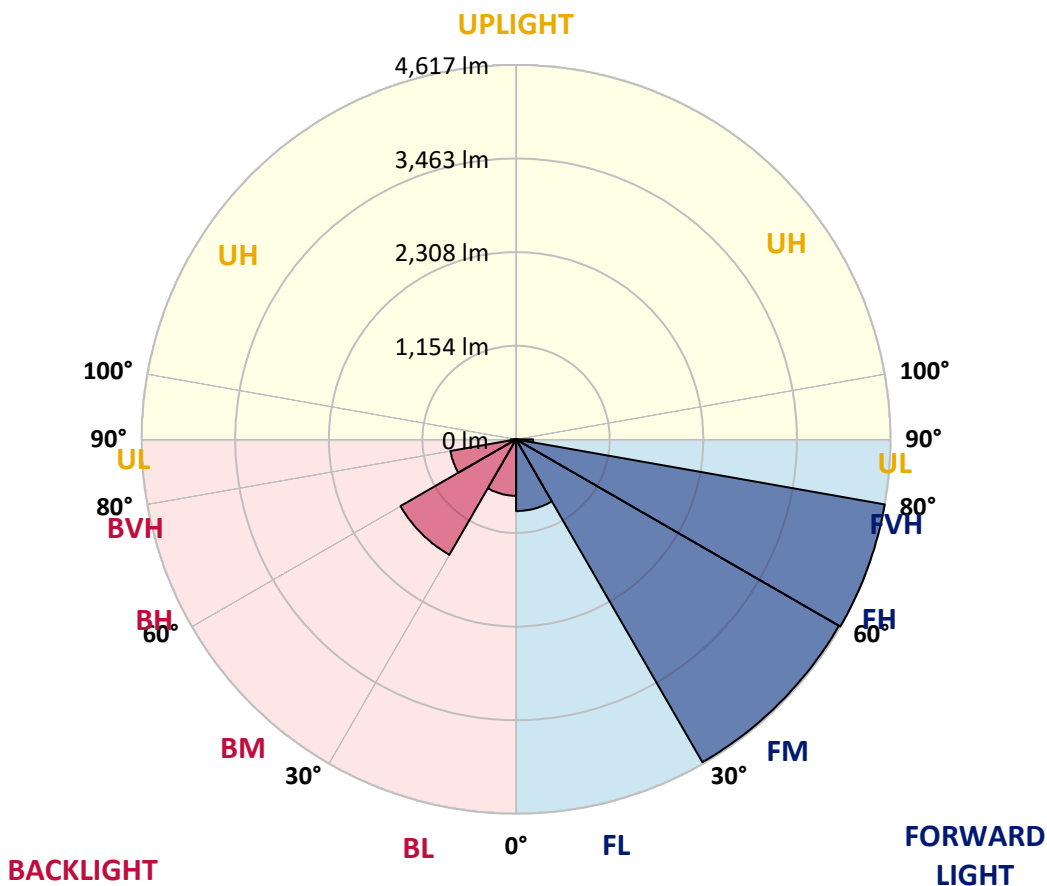
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	884.0	6.5			
FM (30°-60°)	4596.9	34.0			
FH (60°-80°)	4616.8	34.1			G2/5000
FVH (80°-90°)	210.4	1.6			G2/225
BL (0°-30°)	696.1	5.1	B2/1000		
BM (30°-60°)	1645.3	12.2	B2/2500		
BH (60°-80°)	822.3	6.1	B2/1000		G2/1000
BVH (80°-90°)	66.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8
2.5°	1931.1	1930.1	1949.6	1979.3	2007.0	2019.3	2039.8	2037.7	2021.3	1999.8	1992.6
5°	2082.8	2086.9	2120.7	2186.3	2259.1	2289.9	2303.2	2298.1	2268.3	2230.4	2163.8
7.5°	2220.2	2227.3	2279.6	2378.0	2468.2	2509.2	2542.0	2535.9	2492.8	2422.1	2323.7
10°	2320.6	2328.8	2391.3	2507.2	2607.6	2643.5	2685.5	2687.6	2649.6	2554.3	2453.9
12.5°	2421.1	2429.3	2487.7	2593.3	2658.9	2659.9	2684.5	2697.8	2699.9	2655.8	2555.3
15°	2525.6	2532.8	2586.1	2645.5	2642.5	2585.1	2585.1	2610.7	2667.1	2698.8	2629.1
17.5°	2614.8	2624.0	2665.0	2645.5	2554.3	2450.8	2438.5	2471.3	2569.7	2691.7	2684.5
20°	2688.6	2695.8	2718.3	2589.2	2423.1	2287.8	2264.2	2302.2	2435.4	2647.6	2726.5
22.5°	2759.3	2763.4	2751.1	2515.4	2281.7	2126.9	2098.2	2138.2	2281.7	2569.7	2762.4
25°	2843.4	2839.3	2780.8	2438.5	2152.5	1999.8	1970.1	2015.2	2164.8	2466.2	2801.3
27.5°	2940.7	2925.4	2806.5	2355.5	2053.1	1905.5	1885.0	1933.2	2072.6	2370.8	2832.1
30°	3023.8	2994.0	2810.6	2281.7	2001.8	1865.5	1853.2	1898.3	2027.5	2306.3	2871.0
32.5°	3116.0	3075.0	2834.1	2262.2	2030.5	1961.9	1978.3	1981.3	2039.8	2287.8	2929.5
35°	3248.2	3194.9	2898.7	2318.6	2325.7	2441.6	2501.0	2421.1	2225.3	2328.8	3040.2
37.5°	3448.1	3380.5	3029.9	2562.5	2935.6	3194.9	3338.4	3156.0	2789.0	2483.6	3207.2
40°	3691.0	3604.9	3198.0	3013.5	3505.5	3920.6	4175.9	3908.3	3369.2	2870.0	3442.0
42.5°	4030.3	3940.1	3524.0	3456.3	4033.4	4651.5	4984.6	4585.9	3880.7	3369.2	3818.1
45°	4621.8	4534.6	4121.5	3900.1	4651.5	5551.4	6018.8	5464.3	4400.4	3870.4	4521.3
47.5°	5714.4	5611.9	5009.2	4392.2	5356.7	6719.9	7373.9	6566.2	4940.5	4444.4	5702.1
50°	7026.4	6928.0	6123.4	4974.4	6135.7	7969.4	8878.6	7860.8	5562.7	5142.5	7113.5
52.5°	8604.9	8586.5	7713.2	5710.3	6946.5	9301.9	10548.3	9294.8	6244.3	6082.4	8712.6
55°	10027.6	10208.0	9732.4	6832.7	7994.0	10975.8	12265.2	10858.9	7168.9	7636.3	10585.2
57.5°	10794.3	11279.2	12010.0	9122.6	9517.2	12976.6	14383.9	12768.5	8757.7	10223.4	12321.6
60°	10288.0	10837.4	12161.7	10846.6	11028.0	14579.7	16132.6	14373.7	10317.7	12019.2	12223.2
62.5°	9445.4	9938.5	11116.2	9840.1	11261.7	14932.3	16173.6	14653.5	10937.8	11108.0	11041.4
65°	8446.0	8943.2	10190.6	8589.5	10518.6	14094.9	14980.5	13830.4	9823.7	10035.8	10060.4
67.5°	7118.7	7577.9	8847.9	7637.3	9587.9	12865.9	13148.8	12657.8	9046.7	9385.0	9031.3
70°	5318.8	5732.9	6854.2	6206.4	8082.2	11264.8	11036.2	11109.0	8174.4	8510.6	7544.0
72.5°	3634.7	3946.3	4907.7	4877.0	6189.0	9018.0	8699.2	9389.1	6827.6	7273.4	5751.3
75°	2542.0	2784.9	3547.5	3853.0	4678.1	6684.1	6195.1	7027.4	5332.1	5968.6	4196.4
77.5°	1560.1	1721.0	2240.7	2854.6	3009.4	4574.6	3847.9	5288.0	3744.3	4353.2	2799.3
80°	780.0	857.9	1088.6	1794.8	1995.7	2695.8	2124.8	3069.9	2533.8	2695.8	1548.8
82.5°	235.8	260.4	318.8	681.6	1034.2	1551.9	1255.6	1783.5	1383.8	1263.8	609.9
85°	62.5	70.7	88.2	201.9	362.9	556.6	424.4	864.1	663.2	466.4	229.6
87.5°	5.1	5.1	4.1	4.1	2.1	0.0	0.0	61.5	124.0	70.7	40.0
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°	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8
2.5°	1956.7	1952.6	1910.6	1879.9	1844.0	1809.1	1773.3	1741.5	1705.6	1669.7	1659.5
5°	2114.6	2085.9	1996.7	1921.9	1848.1	1783.5	1727.1	1668.7	1621.6	1575.4	1558.0
7.5°	2254.0	2203.8	2074.6	1960.8	1858.3	1778.4	1695.4	1610.3	1543.7	1478.1	1461.7
10°	2380.1	2313.4	2150.5	2007.0	1893.2	1802.0	1704.6	1590.8	1494.5	1414.5	1393.0
12.5°	2473.3	2400.6	2216.1	2051.0	1921.9	1819.4	1723.0	1622.6	1521.1	1417.6	1394.0
15°	2547.1	2471.3	2270.4	2084.9	1922.9	1790.7	1697.4	1662.6	1630.8	1529.3	1486.3
17.5°	2606.6	2526.6	2317.5	2105.4	1895.2	1703.6	1622.6	1673.8	1754.8	1691.3	1610.3
20°	2660.9	2579.9	2353.4	2119.7	1833.7	1583.6	1538.5	1647.2	1769.2	1767.1	1694.3
22.5°	2720.4	2641.4	2405.7	2127.9	1747.6	1461.7	1488.3	1608.2	1707.7	1737.4	1692.3
25°	2796.2	2726.5	2478.5	2146.4	1650.3	1377.6	1451.4	1558.0	1641.0	1648.2	1621.6
27.5°	2884.4	2832.1	2587.1	2189.4	1556.0	1334.6	1408.4	1487.3	1563.1	1566.2	1534.4
30°	2980.7	2945.9	2687.6	2225.3	1485.2	1321.2	1353.0	1416.6	1464.7	1472.9	1445.3
32.5°	3103.7	3073.0	2776.7	2201.7	1443.2	1318.2	1301.8	1334.6	1374.5	1374.5	1353.0
35°	3272.8	3229.8	2871.0	2111.5	1392.0	1305.9	1247.4	1256.7	1274.1	1277.2	1264.9
37.5°	3512.7	3442.0	2966.4	1933.2	1307.9	1261.8	1184.9	1173.6	1179.8	1188.0	1184.9
40°	3809.9	3694.1	3105.8	1718.9	1207.5	1176.7	1120.3	1098.8	1093.7	1110.1	1116.2
42.5°	4184.1	4006.7	3255.4	1519.1	1116.2	1079.3	1044.5	1026.0	1017.8	1045.5	1061.9
45°	4781.7	4489.5	3398.9	1321.2	1065.0	996.3	972.7	959.4	963.5	996.3	1016.8
47.5°	5813.8	5226.5	3535.2	1196.2	1060.9	936.9	908.2	911.2	922.5	957.4	982.0
50°	7119.7	6213.6	3626.5	1143.9	1073.2	901.0	863.1	879.5	896.9	930.7	959.4
52.5°	8449.1	7133.0	3517.8	1115.2	1072.2	902.0	821.0	870.2	878.4	912.3	943.0
55°	9363.4	7235.5	3039.1	1071.1	1055.8	943.0	788.2	866.1	871.3	902.0	929.7
57.5°	9711.9	6885.0	2317.5	1083.4	1006.6	974.8	773.9	837.4	874.3	901.0	929.7
60°	9290.7	6223.8	1408.4	1115.2	927.6	972.7	783.1	785.2	848.7	893.8	922.5
62.5°	8496.3	5375.1	989.1	1025.0	870.2	918.4	804.6	723.7	803.6	857.9	883.6
65°	7586.1	4376.8	754.4	882.5	842.6	834.4	811.8	669.3	742.1	795.4	818.0
67.5°	6637.9	3402.0	613.0	658.1	761.6	754.4	742.1	621.2	669.3	707.3	732.9
70°	5443.8	2380.1	517.6	494.1	652.9	676.5	648.8	560.7	576.1	615.0	635.5
72.5°	3982.1	1483.2	425.4	408.0	524.8	591.4	577.1	494.1	501.2	538.1	554.5
75°	2863.9	848.7	341.3	336.2	400.8	506.4	477.7	425.4	433.6	461.3	472.5
77.5°	1820.4	472.5	263.4	270.6	287.0	378.2	408.0	363.9	363.9	380.3	389.5
80°	974.8	270.6	192.7	195.8	200.9	289.1	321.9	281.9	281.9	270.6	281.9
82.5°	397.7	155.8	132.2	123.0	134.3	197.8	225.5	179.4	187.6	169.1	173.2
85°	131.2	77.9	65.6	64.6	63.6	87.1	108.7	89.2	106.6	67.7	70.7
87.5°	17.4	14.4	8.2	6.2	7.2	3.1	6.2	7.2	7.2	5.1	5.1
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8
2.5°	1652.3	1644.1	1614.4	1621.6	1616.4	1608.2	1616.4	1601.1	1613.4	1617.5	1643.1
5°	1544.7	1525.2	1496.5	1482.2	1479.1	1470.9	1471.9	1464.7	1466.8	1484.2	1512.9
7.5°	1448.3	1429.9	1407.3	1397.1	1387.9	1378.6	1377.6	1376.6	1384.8	1400.2	1427.8
10°	1378.6	1368.4	1359.2	1363.3	1359.2	1355.1	1347.9	1347.9	1361.2	1388.9	1422.7
12.5°	1378.6	1376.6	1378.6	1390.9	1389.9	1390.9	1381.7	1386.8	1423.7	1470.9	1519.1
15°	1452.4	1436.0	1436.0	1442.2	1440.1	1440.1	1440.1	1461.7	1545.7	1618.5	1669.7
17.5°	1542.6	1494.5	1474.0	1470.9	1469.9	1469.9	1474.0	1520.1	1651.3	1728.2	1757.9
20°	1605.2	1513.9	1480.1	1466.8	1467.8	1469.9	1482.2	1545.7	1690.2	1729.2	1722.0
22.5°	1616.4	1498.6	1457.6	1438.1	1441.2	1443.2	1461.7	1529.3	1636.9	1643.1	1628.7
25°	1564.2	1455.5	1411.4	1396.1	1400.2	1399.1	1415.5	1464.7	1541.6	1539.6	1531.4
27.5°	1486.3	1386.8	1354.0	1343.8	1351.0	1342.8	1347.9	1385.8	1445.3	1443.2	1440.1
30°	1406.3	1320.2	1290.5	1285.4	1294.6	1282.3	1283.3	1315.1	1356.1	1354.0	1353.0
32.5°	1326.4	1253.6	1226.9	1226.9	1236.2	1222.8	1224.9	1252.6	1280.2	1272.0	1272.0
35°	1250.5	1199.3	1177.7	1173.6	1180.8	1171.6	1175.7	1201.3	1211.6	1200.3	1193.1
37.5°	1183.9	1161.3	1139.8	1125.5	1126.5	1127.5	1139.8	1159.3	1153.1	1136.7	1127.5
40°	1122.4	1122.4	1101.9	1075.2	1072.2	1079.3	1099.8	1121.4	1103.9	1085.5	1074.2
42.5°	1078.3	1087.5	1068.1	1041.4	1035.3	1047.6	1070.1	1085.5	1065.0	1044.5	1029.1
45°	1037.3	1059.9	1046.5	1016.8	1008.6	1023.0	1051.7	1057.8	1030.1	1010.7	999.4
47.5°	1008.6	1039.4	1030.1	1001.4	989.1	1009.6	1039.4	1038.3	1003.5	983.0	973.8
50°	988.1	1027.1	1026.0	1001.4	988.1	1013.7	1040.4	1027.1	989.1	967.6	958.4
52.5°	971.7	1026.0	1033.2	1018.9	1009.6	1032.2	1048.6	1023.0	978.9	956.3	949.2
55°	964.5	1030.1	1035.3	1021.9	1013.7	1034.2	1048.6	1031.2	978.9	958.4	952.2
57.5°	966.6	1025.0	1026.0	1007.6	993.2	1018.9	1041.4	1036.3	990.2	966.6	959.4
60°	954.3	997.3	999.4	970.7	954.3	985.0	1025.0	1021.9	985.0	960.4	947.1
62.5°	913.3	951.2	952.2	925.6	902.0	946.1	990.2	989.1	955.3	930.7	915.3
65°	844.6	884.6	894.8	869.2	850.8	897.9	944.0	942.0	908.2	885.6	870.2
67.5°	759.5	802.6	822.1	804.6	797.5	840.5	883.6	882.5	854.9	833.3	820.0
70°	656.0	691.9	724.7	724.7	719.6	768.8	814.9	810.8	785.2	768.8	758.5
72.5°	569.9	597.6	607.8	618.1	633.5	684.7	723.7	726.7	708.3	700.1	708.3
75°	484.8	502.3	511.5	503.3	529.9	583.2	634.5	639.6	620.1	606.8	609.9
77.5°	398.7	418.2	427.4	409.0	406.9	474.6	537.1	548.4	532.0	511.5	517.6
80°	288.0	313.7	329.0	316.7	312.6	342.4	428.5	440.8	425.4	409.0	418.2
82.5°	176.3	190.7	194.8	207.1	232.7	245.0	275.7	316.7	305.5	291.1	316.7
85°	69.7	83.0	92.3	104.6	122.0	144.5	170.2	203.0	184.5	178.4	210.1
87.5°	4.1	1.0	0.0	2.1	17.4	33.8	72.8	100.5	84.1	90.2	108.7
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°	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8	1796.8
2.5°	1663.6	1690.2	1726.1	1755.8	1793.8	1829.6	1866.5	1903.4	1922.9	1931.1
5°	1545.7	1594.9	1652.3	1715.9	1789.7	1867.6	1946.5	2027.5	2078.7	2082.8
7.5°	1475.0	1545.7	1624.6	1704.6	1795.8	1903.4	2028.5	2153.5	2205.8	2220.2
10°	1497.5	1576.5	1639.0	1713.8	1814.3	1948.5	2096.1	2242.7	2303.2	2320.6
12.5°	1587.7	1603.1	1622.6	1691.3	1814.3	1987.5	2165.8	2340.1	2404.7	2421.1
15°	1662.6	1588.8	1553.9	1626.7	1789.7	2021.3	2239.6	2432.3	2510.2	2525.6
17.5°	1668.7	1541.6	1465.8	1531.4	1746.6	2044.9	2310.4	2534.8	2600.4	2614.8
20°	1606.2	1491.4	1393.0	1433.0	1688.2	2055.1	2361.6	2609.7	2674.2	2688.6
22.5°	1535.5	1450.4	1343.8	1341.7	1617.5	2066.4	2423.1	2680.4	2750.1	2759.3
25°	1468.8	1394.0	1303.8	1275.1	1535.5	2087.9	2506.1	2787.0	2840.3	2843.4
27.5°	1390.9	1333.5	1272.0	1244.4	1463.7	2128.9	2629.1	2914.1	2945.9	2940.7
30°	1320.2	1277.2	1249.5	1241.3	1418.6	2159.7	2746.0	3039.1	3041.2	3023.8
32.5°	1245.4	1229.0	1229.0	1255.6	1381.7	2152.5	2841.3	3161.1	3141.6	3116.0
35°	1178.8	1181.8	1203.4	1265.9	1320.2	2080.8	2932.5	3313.8	3285.1	3248.2
37.5°	1115.2	1138.8	1169.5	1230.0	1239.2	1974.2	3039.1	3530.1	3494.2	3448.1
40°	1060.9	1096.8	1132.6	1162.4	1153.1	1822.5	3187.8	3784.3	3744.3	3691.0
42.5°	1017.8	1052.7	1092.7	1095.7	1098.8	1664.6	3345.6	4095.9	4088.7	4030.3
45°	990.2	1012.7	1050.6	1045.5	1095.7	1490.4	3491.2	4571.5	4665.8	4621.8
47.5°	971.7	989.1	993.2	1014.8	1122.4	1334.6	3678.7	5502.2	5764.6	5714.4
50°	961.5	978.9	932.8	1016.8	1126.5	1234.1	3938.1	6670.7	7093.0	7026.4
52.5°	960.4	956.3	886.6	1038.3	1103.9	1172.6	4073.4	7523.5	8460.4	8604.9
55°	962.5	911.2	863.1	1044.5	1058.8	1150.1	3620.3	7933.5	9722.2	10027.6
57.5°	944.0	862.0	876.4	1019.9	973.8	1210.5	2676.3	7787.0	10226.5	10794.3
60°	909.2	814.9	901.0	953.3	886.6	1107.0	1843.0	7133.0	9703.7	10288.0
62.5°	859.0	782.1	897.9	867.2	854.9	906.1	1266.9	6217.7	8874.5	9445.4
65°	802.6	755.4	849.7	784.1	791.3	697.0	895.9	5184.5	7884.3	8446.0
67.5°	742.1	739.0	779.0	698.0	668.3	552.5	652.9	4155.4	6612.3	7118.7
70°	673.4	696.0	708.3	620.1	542.2	433.6	484.8	2905.9	4878.0	5318.8
72.5°	604.8	606.8	624.2	539.2	405.9	347.5	363.9	1759.9	3313.8	3634.7
75°	535.1	515.6	532.0	438.7	302.4	285.0	280.9	1087.5	2288.8	2542.0
77.5°	460.2	438.7	417.2	330.1	242.9	220.4	215.3	609.9	1404.3	1560.1
80°	374.1	345.4	311.6	241.9	177.3	157.9	156.8	297.3	700.1	780.0
82.5°	291.1	236.8	227.6	150.7	109.7	96.4	102.5	113.8	211.2	235.8
85°	204.0	172.2	121.0	60.5	49.2	40.0	39.0	33.8	56.4	62.5
87.5°	113.8	74.8	39.0	7.2	8.2	9.2	7.2	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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