

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: P632711

Luminaire Tested: GWS-SA2D-730-U-SLR-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632711  
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-SA2D-730-U-SLR-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10067.3 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
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

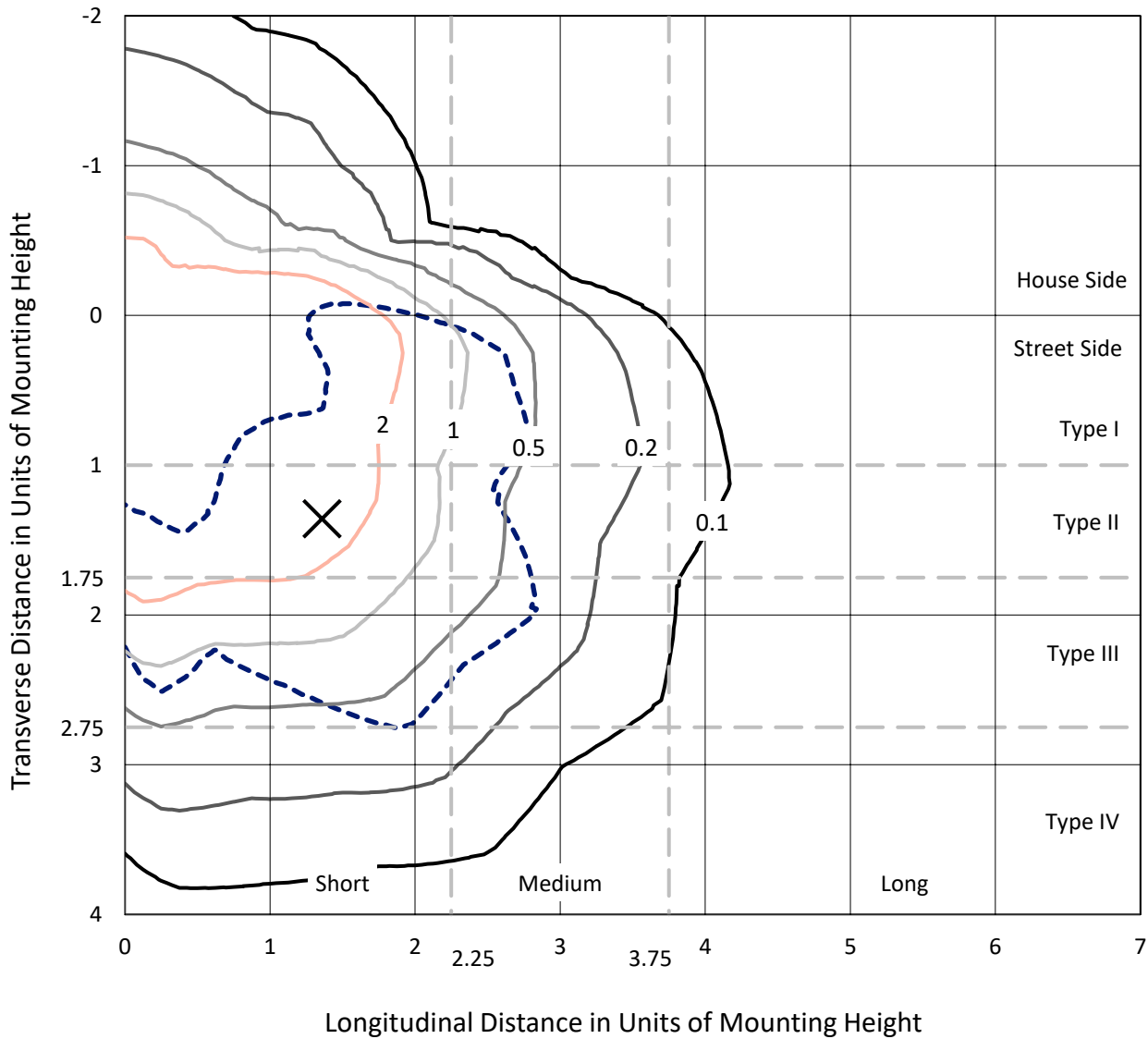


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### Iso-Footcandle Lines of Horizontal Illumination

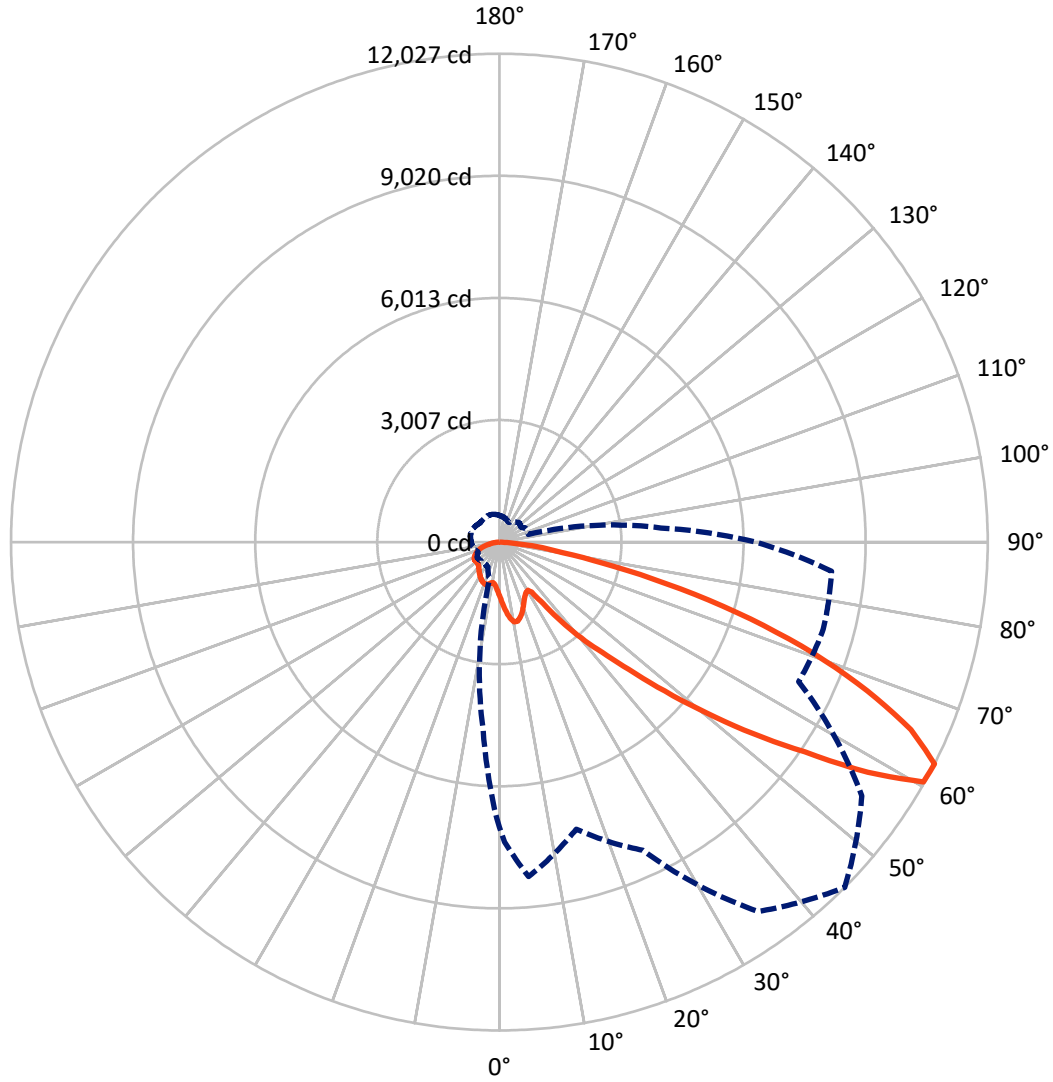
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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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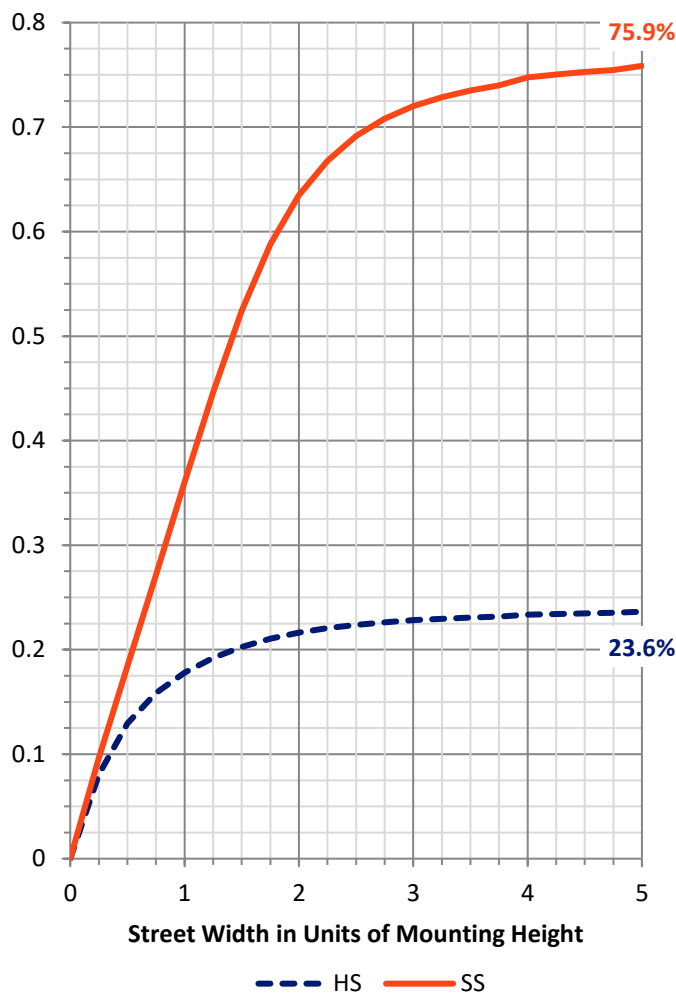
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2402.3	0.0	2402.3
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	7665.1	0.0	7665.1
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	10067.3	0.0	10067.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.5	1.3
10°-20°	409.1	4.1
20°-30°	635.4	6.3
30°-40°	862.7	8.6
40°-50°	1367.3	13.6
50°-60°	2411.8	24.0
60°-70°	2683.5	26.7
70°-80°	1361.0	13.5
80°-90°	206.1	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°	10067.3	100.0
0°-180°	10067.3	100.0

**Coefficient of Utilization**



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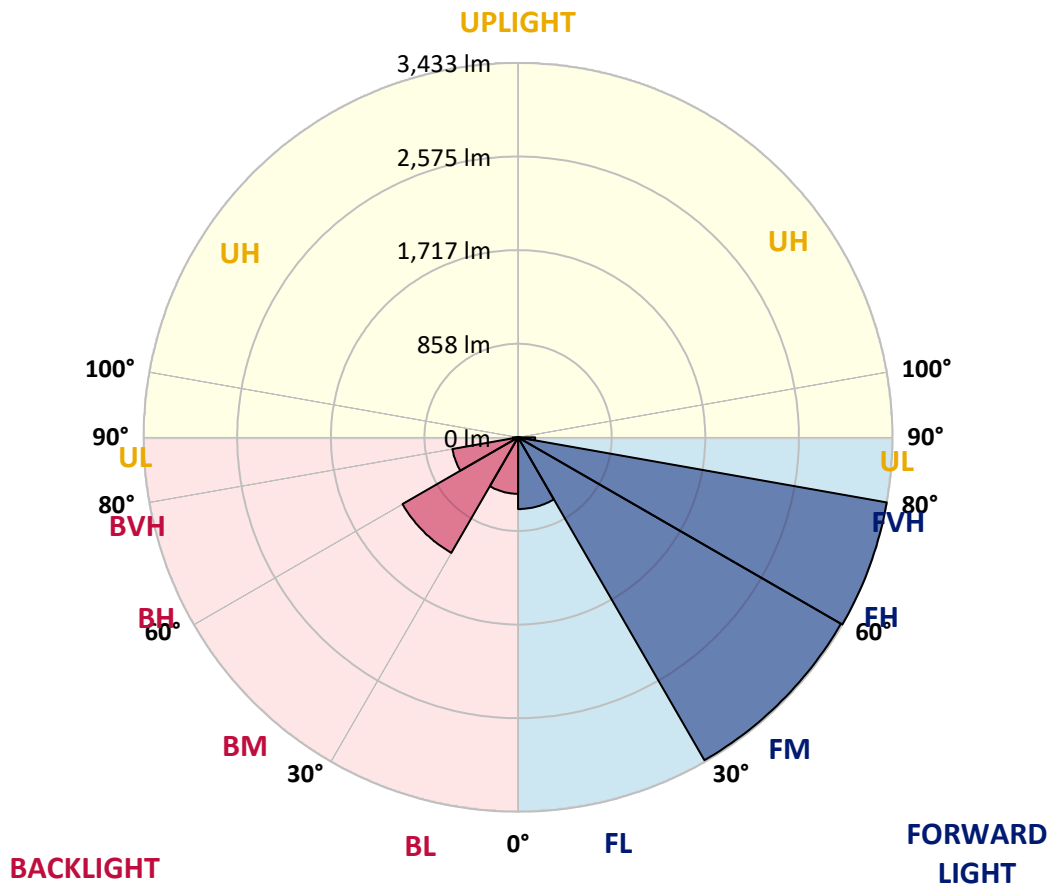
CATALOG NUMBER: GWS-SA2D-730-U-SLR-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.3	6.5			
FM (30°-60°)	3418.3	34.0			
FH (60°-80°)	3433.0	34.1			G2/5000
FVH (80°-90°)	156.4	1.6			G2/225
BL (0°-30°)	517.6	5.1	B2/1000		
BM (30°-60°)	1223.5	12.2	B2/2500		
BH (60°-80°)	611.5	6.1	B2/1000		G2/1000
BVH (80°-90°)	49.7	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°	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1
2.5°	1436.0	1435.2	1449.7	1471.8	1492.4	1501.5	1516.8	1515.3	1503.1	1487.1	1481.7
5°	1548.8	1551.8	1577.0	1625.8	1679.9	1702.8	1712.7	1708.9	1686.7	1658.5	1609.0
7.5°	1650.9	1656.3	1695.1	1768.3	1835.4	1865.9	1890.3	1885.7	1853.7	1801.1	1727.9
10°	1725.6	1731.7	1778.2	1864.3	1939.0	1965.7	1997.0	1998.5	1970.3	1899.4	1824.7
12.5°	1800.3	1806.4	1849.9	1928.4	1977.1	1977.9	1996.2	2006.1	2007.6	1974.9	1900.2
15°	1878.1	1883.4	1923.0	1967.2	1965.0	1922.3	1922.3	1941.3	1983.2	2006.9	1955.0
17.5°	1944.4	1951.2	1981.7	1967.2	1899.4	1822.4	1813.3	1837.7	1910.8	2001.5	1996.2
20°	1999.3	2004.6	2021.4	1925.3	1801.8	1701.2	1683.7	1711.9	1811.0	1968.8	2027.5
22.5°	2051.8	2054.9	2045.7	1870.4	1696.7	1581.6	1560.2	1589.9	1696.7	1910.8	2054.1
25°	2114.3	2111.3	2067.8	1813.3	1600.6	1487.1	1464.9	1498.5	1609.8	1833.9	2083.1
27.5°	2186.8	2175.3	2086.9	1751.5	1526.7	1416.9	1401.7	1437.5	1541.2	1763.0	2106.0
30°	2248.5	2226.4	2090.0	1696.7	1488.6	1387.2	1378.1	1411.6	1507.6	1714.9	2134.9
32.5°	2317.1	2286.6	2107.5	1682.2	1509.9	1458.9	1471.0	1473.3	1516.8	1701.2	2178.4
35°	2415.4	2375.8	2155.5	1724.1	1729.4	1815.6	1859.8	1800.3	1654.7	1731.7	2260.7
37.5°	2564.0	2513.7	2253.1	1905.5	2182.9	2375.8	2482.5	2346.8	2073.9	1846.8	2384.9
40°	2744.7	2680.7	2378.1	2240.9	2606.7	2915.4	3105.2	2906.3	2505.4	2134.2	2559.5
42.5°	2997.0	2929.9	2620.4	2570.1	2999.3	3458.9	3706.6	3410.1	2885.7	2505.4	2839.2
45°	3436.8	3372.0	3064.8	2900.2	3458.9	4128.1	4475.6	4063.3	3272.1	2878.1	3362.1
47.5°	4249.3	4173.0	3724.9	3266.0	3983.3	4997.0	5483.3	4882.7	3673.8	3304.9	4240.1
50°	5224.9	5151.7	4553.4	3699.0	4562.5	5926.1	6602.2	5845.3	4136.5	3824.0	5289.7
52.5°	6398.7	6384.9	5735.6	4246.2	5165.4	6917.0	7843.8	6911.6	4643.3	4522.9	6478.7
55°	7456.6	7590.7	7237.1	5080.8	5944.4	8161.6	9120.5	8074.7	5330.8	5678.4	7871.2
57.5°	8026.7	8387.2	8930.7	6783.6	7077.0	9649.4	10696.0	9494.7	6512.2	7602.2	9162.4
60°	7650.2	8058.7	9043.5	8065.6	8200.5	10841.5	11996.3	10688.3	7672.3	8937.6	9089.2
62.5°	7023.7	7390.3	8266.1	7317.1	8374.3	11103.7	12026.8	10896.4	8133.4	8260.0	8210.4
65°	6280.5	6650.2	7577.8	6387.2	7821.7	10481.0	11139.6	10284.4	7304.9	7462.7	7481.0
67.5°	5293.5	5634.9	6579.3	5679.2	7129.6	9567.1	9777.5	9412.4	6727.2	6978.7	6715.7
70°	3955.1	4263.0	5096.8	4615.1	6009.9	8376.6	8206.6	8260.7	6078.5	6328.5	5609.8
72.5°	2702.8	2934.5	3649.4	3626.5	4602.2	6705.8	6468.8	6981.8	5077.0	5408.6	4276.7
75°	1890.3	2070.9	2638.0	2865.1	3478.7	4970.3	4606.7	5225.6	3965.0	4438.3	3120.4
77.5°	1160.1	1279.7	1666.2	2122.7	2237.8	3401.7	2861.3	3932.2	2784.3	3237.1	2081.6
80°	580.0	638.0	809.5	1334.6	1484.0	2004.6	1580.0	2282.8	1884.2	2004.6	1151.7
82.5°	175.3	193.6	237.0	506.9	769.1	1154.0	933.7	1326.2	1029.0	939.8	453.5
85°	46.5	52.6	65.5	150.2	269.8	413.9	315.6	642.5	493.1	346.8	170.7
87.5°	3.8	3.8	3.0	3.0	1.5	0.0	0.0	45.7	92.2	52.6	29.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1
2.5°	1455.0	1452.0	1420.7	1397.9	1371.2	1345.3	1318.6	1295.0	1268.3	1241.6	1234.0
5°	1572.4	1551.1	1484.8	1429.1	1374.2	1326.2	1284.3	1240.9	1205.8	1171.5	1158.5
7.5°	1676.1	1638.7	1542.7	1458.1	1381.9	1322.4	1260.7	1197.4	1147.9	1099.1	1086.9
10°	1769.8	1720.3	1599.1	1492.4	1407.8	1339.9	1267.5	1182.9	1111.3	1051.8	1035.8
12.5°	1839.2	1785.1	1647.9	1525.2	1429.1	1352.9	1281.3	1206.6	1131.1	1054.1	1036.6
15°	1894.1	1837.7	1688.3	1550.3	1429.9	1331.6	1262.2	1236.3	1212.7	1137.2	1105.2
17.5°	1938.3	1878.8	1723.3	1565.6	1409.3	1266.8	1206.6	1244.7	1304.9	1257.6	1197.4
20°	1978.7	1918.5	1750.0	1576.2	1363.6	1177.6	1144.1	1224.9	1315.6	1314.0	1259.9
22.5°	2022.9	1964.2	1788.9	1582.3	1299.6	1086.9	1106.7	1195.9	1269.8	1291.9	1258.4
25°	2079.3	2027.5	1843.0	1596.0	1227.1	1024.4	1079.3	1158.5	1220.3	1225.6	1205.8
27.5°	2144.8	2106.0	1923.8	1628.1	1157.0	992.4	1047.3	1106.0	1162.4	1164.6	1141.0
30°	2216.5	2190.6	1998.5	1654.7	1104.4	982.5	1006.1	1053.4	1089.2	1095.3	1074.7
32.5°	2307.9	2285.1	2064.8	1637.2	1073.2	980.2	968.0	992.4	1022.1	1022.1	1006.1
35°	2433.7	2401.7	2134.9	1570.1	1035.1	971.0	927.6	934.5	947.4	949.7	940.6
37.5°	2612.1	2559.5	2205.8	1437.5	972.6	938.3	881.1	872.7	877.3	883.4	881.1
40°	2833.1	2747.0	2309.5	1278.2	897.9	875.0	833.1	817.1	813.3	825.5	830.0
42.5°	3111.3	2979.4	2420.7	1129.6	830.0	802.6	776.7	763.0	756.9	777.4	789.6
45°	3555.7	3338.4	2527.5	982.5	791.9	740.9	723.3	713.4	716.5	740.9	756.1
47.5°	4323.2	3886.5	2628.8	889.5	788.9	696.7	675.3	677.6	686.0	711.9	730.2
50°	5294.2	4620.5	2696.7	850.6	798.0	670.0	641.8	654.0	666.9	692.1	713.4
52.5°	6282.8	5304.1	2615.9	829.3	797.3	670.7	610.5	647.1	653.2	678.4	701.2
55°	6962.7	5380.4	2259.9	796.5	785.1	701.2	586.1	644.1	647.9	670.7	691.3
57.5°	7221.8	5119.7	1723.3	805.6	748.5	724.9	575.5	622.7	650.2	670.0	691.3
60°	6908.6	4628.1	1047.3	829.3	689.8	723.3	582.3	583.8	631.1	664.6	686.0
62.5°	6317.9	3997.0	735.5	762.2	647.1	682.9	598.3	538.1	597.6	638.0	657.0
65°	5641.0	3254.6	561.0	656.3	626.5	620.4	603.7	497.7	551.8	591.5	608.2
67.5°	4936.0	2529.7	455.8	489.3	566.3	561.0	551.8	461.9	497.7	525.9	545.0
70°	4048.0	1769.8	384.9	367.4	485.5	503.1	482.5	416.9	428.4	457.3	472.6
72.5°	2961.1	1102.9	316.3	303.4	390.2	439.8	429.1	367.4	372.7	400.2	412.4
75°	2129.6	631.1	253.8	250.0	298.0	376.5	355.2	316.3	322.4	343.0	351.4
77.5°	1353.7	351.4	195.9	201.2	213.4	281.3	303.4	270.6	270.6	282.8	289.6
80°	724.9	201.2	143.3	145.6	149.4	214.9	239.3	209.6	209.6	201.2	209.6
82.5°	295.7	115.9	98.3	91.5	99.8	147.1	167.7	133.4	139.5	125.8	128.8
85°	97.6	57.9	48.8	48.0	47.3	64.8	80.8	66.3	79.3	50.3	52.6
87.5°	13.0	10.7	6.1	4.6	5.3	2.3	4.6	5.3	5.3	3.8	3.8
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1
2.5°	1228.7	1222.6	1200.5	1205.8	1202.0	1195.9	1202.0	1190.6	1199.7	1202.8	1221.8
5°	1148.6	1134.2	1112.8	1102.1	1099.9	1093.8	1094.5	1089.2	1090.7	1103.7	1125.0
7.5°	1077.0	1063.3	1046.5	1038.9	1032.0	1025.2	1024.4	1023.6	1029.7	1041.2	1061.7
10°	1025.2	1017.5	1010.7	1013.7	1010.7	1007.6	1002.3	1002.3	1012.2	1032.8	1057.9
12.5°	1025.2	1023.6	1025.2	1034.3	1033.5	1034.3	1027.4	1031.3	1058.7	1093.8	1129.6
15°	1080.0	1067.8	1067.8	1072.4	1070.9	1070.9	1070.9	1086.9	1149.4	1203.5	1241.6
17.5°	1147.1	1111.3	1096.0	1093.8	1093.0	1093.0	1096.0	1130.3	1227.9	1285.1	1307.2
20°	1193.6	1125.8	1100.6	1090.7	1091.5	1093.0	1102.1	1149.4	1256.9	1285.8	1280.5
22.5°	1202.0	1114.3	1083.8	1069.4	1071.7	1073.2	1086.9	1137.2	1217.2	1221.8	1211.1
25°	1163.1	1082.3	1049.5	1038.1	1041.2	1040.4	1052.6	1089.2	1146.3	1144.8	1138.7
27.5°	1105.2	1031.3	1006.9	999.2	1004.6	998.5	1002.3	1030.5	1074.7	1073.2	1070.9
30°	1045.7	981.7	959.6	955.8	962.7	953.5	954.3	977.9	1008.4	1006.9	1006.1
32.5°	986.3	932.2	912.4	912.4	919.2	909.3	910.8	931.4	952.0	945.9	945.9
35°	929.9	891.8	875.8	872.7	878.1	871.2	874.2	893.3	900.9	892.5	887.2
37.5°	880.3	863.6	847.6	836.9	837.7	838.4	847.6	862.0	857.5	845.3	838.4
40°	834.6	834.6	819.4	799.5	797.3	802.6	817.8	833.8	820.9	807.2	798.8
42.5°	801.8	808.7	794.2	774.4	769.8	779.0	795.7	807.2	791.9	776.7	765.2
45°	771.3	788.1	778.2	756.1	750.0	760.7	782.0	786.6	766.0	751.5	743.1
47.5°	750.0	772.9	766.0	744.7	735.5	750.8	772.9	772.1	746.2	730.9	724.1
50°	734.8	763.7	763.0	744.7	734.8	753.8	773.6	763.7	735.5	719.5	712.7
52.5°	722.6	763.0	768.3	757.6	750.8	767.5	779.7	760.7	727.9	711.1	705.8
55°	717.2	766.0	769.8	759.9	753.8	769.1	779.7	766.8	727.9	712.7	708.1
57.5°	718.8	762.2	763.0	749.2	738.6	757.6	774.4	770.6	736.3	718.8	713.4
60°	709.6	741.6	743.1	721.8	709.6	732.5	762.2	759.9	732.5	714.2	704.3
62.5°	679.1	707.3	708.1	688.3	670.7	703.5	736.3	735.5	710.4	692.1	680.6
65°	628.1	657.8	665.4	646.3	632.6	667.7	702.0	700.5	675.3	658.5	647.1
67.5°	564.8	596.8	611.3	598.3	593.0	625.0	657.0	656.3	635.7	619.7	609.8
70°	487.8	514.5	538.9	538.9	535.1	571.6	605.9	602.9	583.8	571.6	564.0
72.5°	423.8	444.4	452.0	459.6	471.0	509.1	538.1	540.4	526.7	520.6	526.7
75°	360.5	373.5	380.3	374.2	394.1	433.7	471.8	475.6	461.1	451.2	453.5
77.5°	296.5	311.0	317.8	304.1	302.6	352.9	399.4	407.8	395.6	380.3	384.9
80°	214.2	233.2	244.7	235.5	232.5	254.6	318.6	327.7	316.3	304.1	311.0
82.5°	131.1	141.8	144.8	154.0	173.0	182.2	205.0	235.5	227.1	216.5	235.5
85°	51.8	61.7	68.6	77.7	90.7	107.5	126.5	150.9	137.2	132.6	156.3
87.5°	3.0	0.8	0.0	1.5	13.0	25.2	54.1	74.7	62.5	67.1	80.8
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°	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1
2.5°	1237.1	1256.9	1283.5	1305.6	1333.8	1360.5	1388.0	1415.4	1429.9	1436.0
5°	1149.4	1186.0	1228.7	1275.9	1330.8	1388.7	1447.4	1507.6	1545.7	1548.8
7.5°	1096.8	1149.4	1208.1	1267.5	1335.4	1415.4	1508.4	1601.4	1640.3	1650.9
10°	1113.6	1172.3	1218.8	1274.4	1349.1	1448.9	1558.7	1667.7	1712.7	1725.6
12.5°	1180.6	1192.1	1206.6	1257.6	1349.1	1477.9	1610.5	1740.1	1788.1	1800.3
15°	1236.3	1181.4	1155.5	1209.6	1330.8	1503.1	1665.4	1808.7	1866.6	1878.1
17.5°	1240.9	1146.3	1089.9	1138.7	1298.8	1520.6	1718.0	1884.9	1933.7	1944.4
20°	1194.4	1109.0	1035.8	1065.6	1255.3	1528.2	1756.1	1940.6	1988.6	1999.3
22.5°	1141.8	1078.5	999.2	997.7	1202.8	1536.6	1801.8	1993.2	2045.0	2051.8
25°	1092.2	1036.6	969.5	948.2	1141.8	1552.6	1863.6	2072.4	2112.1	2114.3
27.5°	1034.3	991.6	945.9	925.3	1088.4	1583.1	1955.0	2166.9	2190.6	2186.8
30°	981.7	949.7	929.1	923.0	1054.9	1606.0	2041.9	2259.9	2261.4	2248.5
32.5°	926.1	913.9	913.9	933.7	1027.4	1600.6	2112.8	2350.6	2336.1	2317.1
35°	876.5	878.8	894.8	941.3	981.7	1547.3	2180.7	2464.2	2442.9	2415.4
37.5°	829.3	846.8	869.7	914.6	921.5	1468.0	2259.9	2625.0	2598.3	2564.0
40°	788.9	815.6	842.2	864.3	857.5	1355.2	2370.4	2814.0	2784.3	2744.7
42.5°	756.9	782.8	812.5	814.8	817.1	1237.8	2487.8	3045.8	3040.4	2997.0
45°	736.3	753.1	781.3	777.4	814.8	1108.2	2596.1	3399.4	3469.5	3436.8
47.5°	722.6	735.5	738.6	754.6	834.6	992.4	2735.5	4091.5	4286.6	4249.3
50°	714.9	727.9	693.6	756.1	837.7	917.7	2928.4	4960.4	5274.4	5224.9
52.5°	714.2	711.1	659.3	772.1	820.9	872.0	3029.0	5594.5	6291.2	6398.7
55°	715.7	677.6	641.8	776.7	787.4	855.2	2692.1	5899.4	7229.5	7456.6
57.5°	702.0	641.0	651.7	758.4	724.1	900.2	1990.1	5790.4	7604.5	8026.7
60°	676.1	605.9	670.0	708.8	659.3	823.2	1370.4	5304.1	7215.7	7650.2
62.5°	638.7	581.6	667.7	644.8	635.7	673.8	942.1	4623.5	6599.1	7023.7
65°	596.8	561.7	631.9	583.1	588.4	518.3	666.2	3855.2	5862.8	6280.5
67.5°	551.8	549.5	579.3	519.1	497.0	410.8	485.5	3090.0	4917.0	5293.5
70°	500.8	517.5	526.7	461.1	403.2	322.4	360.5	2160.8	3627.3	3955.1
72.5°	449.7	451.2	464.2	400.9	301.8	258.4	270.6	1308.7	2464.2	2702.8
75°	397.9	383.4	395.6	326.2	224.8	211.9	208.8	808.7	1702.0	1890.3
77.5°	342.2	326.2	310.2	245.4	180.6	163.9	160.1	453.5	1044.2	1160.1
80°	278.2	256.9	231.7	179.9	131.9	117.4	116.6	221.0	520.6	580.0
82.5°	216.5	176.1	169.2	112.0	81.6	71.6	76.2	84.6	157.0	175.3
85°	151.7	128.0	89.9	45.0	36.6	29.7	29.0	25.2	41.9	46.5
87.5°	84.6	55.6	29.0	5.3	6.1	6.9	5.3	3.8	3.8	3.8
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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