

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: P631278

Luminaire Tested: GWS-SA1F-735-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-735-U-SLR-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

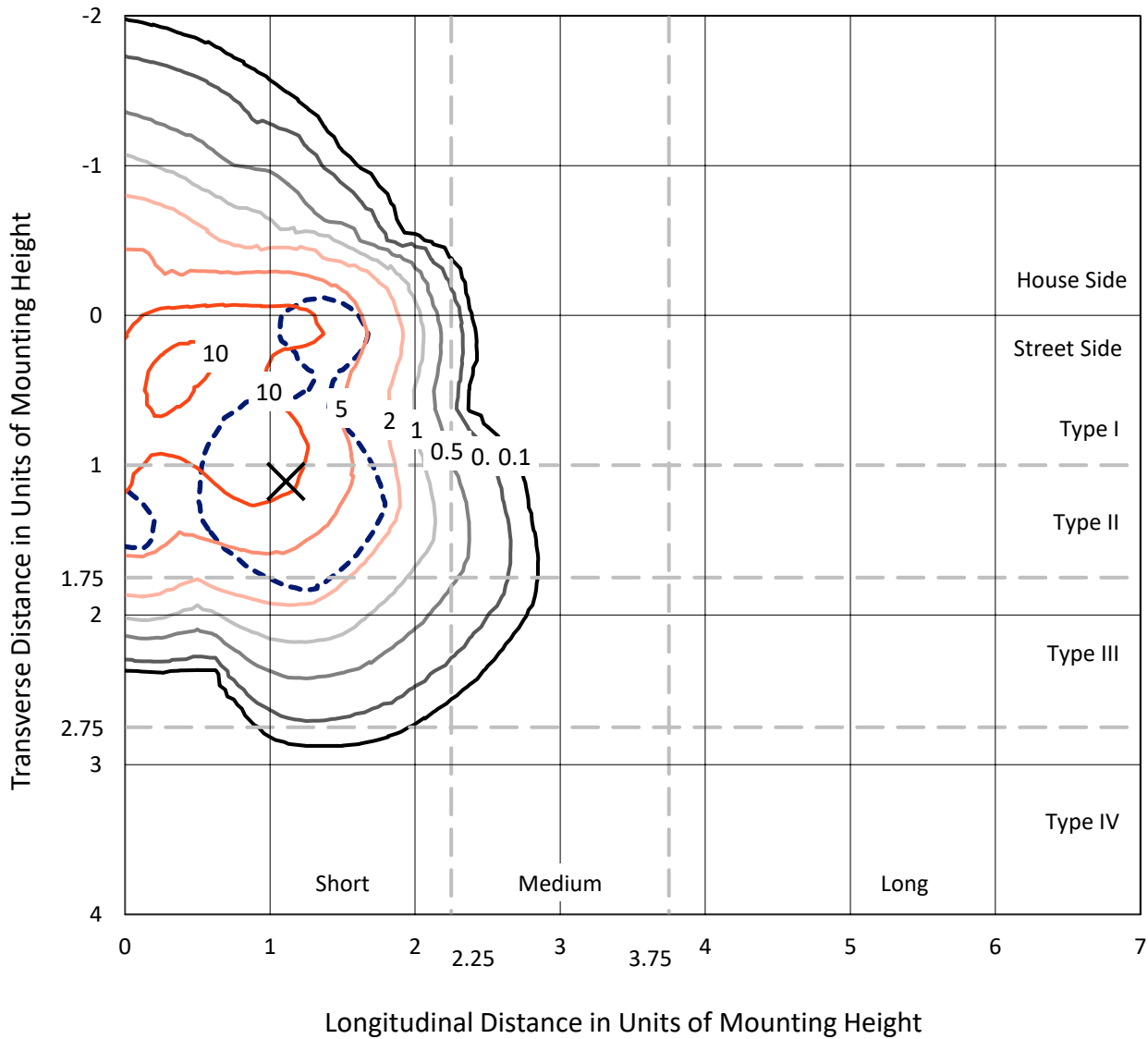
Lumens per Lamp: N/A  
Luminaire Lumens: 4433.1 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

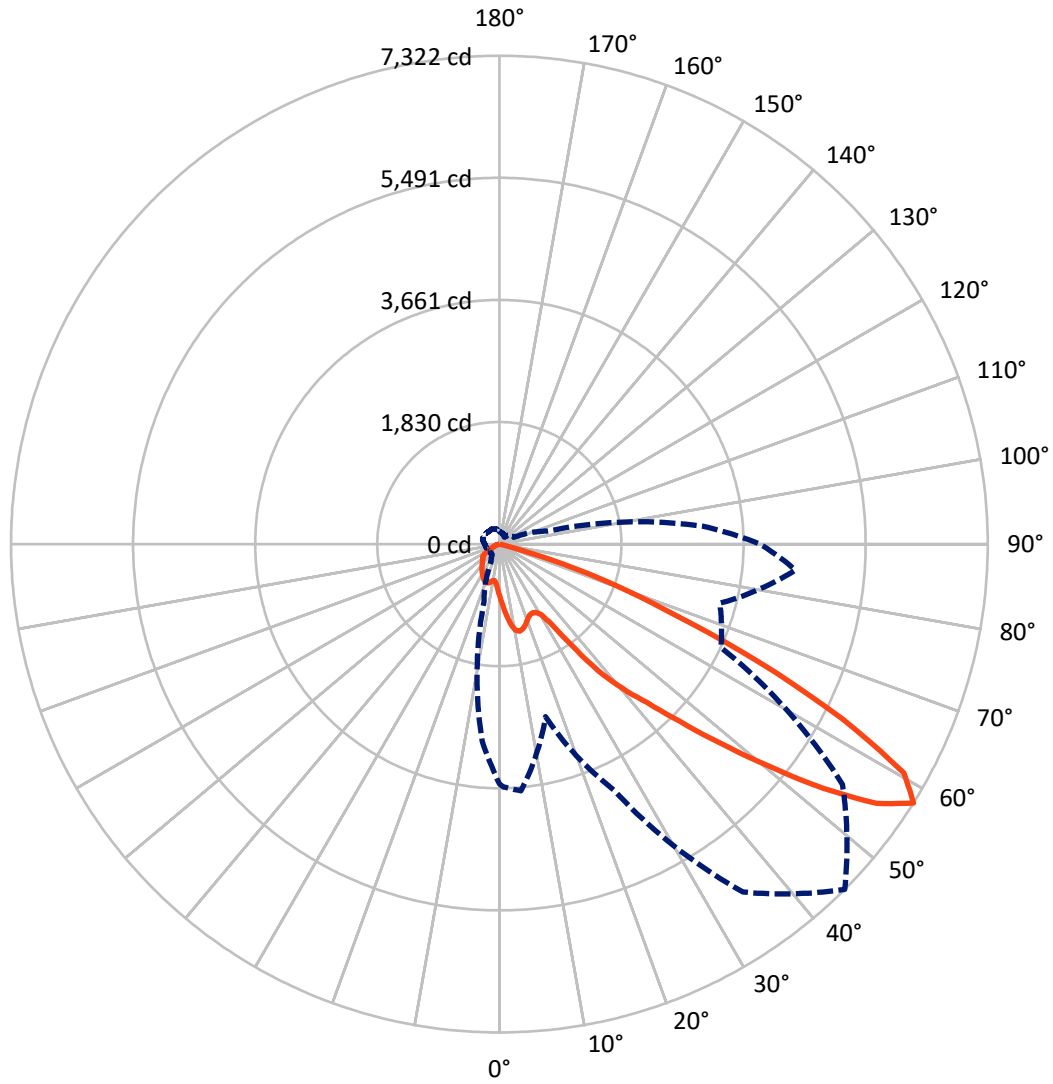
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	992.7	0.0	992.7
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	3440.4	0.0	3440.4
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	4433.1	0.0	4433.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.7	1.7
10°-20°	248.0	5.6
20°-30°	402.8	9.1
30°-40°	622.4	14.0
40°-50°	998.0	22.5
50°-60°	1364.0	30.8
60°-70°	660.6	14.9
70°-80°	60.5	1.4
80°-90°	0.2	0.0
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°	4433.1	100.0
0°-180°	4433.1	100.0

**Coefficient of Utilization**



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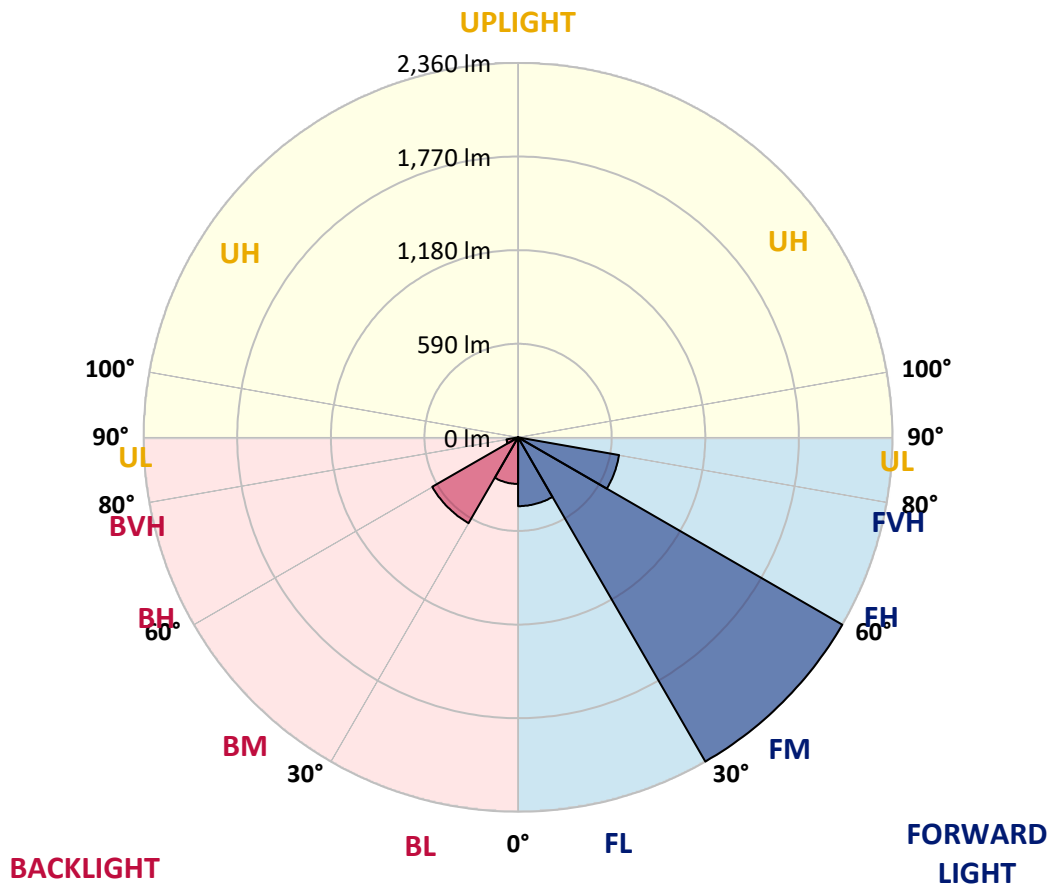
CATALOG NUMBER: GWS-SA1F-735-U-SLR-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	433.7	9.8			
FM (30°-60°)	2359.8	53.2			
FH (60°-80°)	646.7	14.6			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	293.7	6.6	B1/500		
BM (30°-60°)	624.6	14.1	B1/1000		
BH (60°-80°)	74.4	1.7	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2
2.5°	844.1	849.5	858.4	877.5	893.5	904.3	909.0	907.8	901.3	896.5	887.0
5°	934.6	934.6	951.9	995.4	1028.8	1049.6	1060.3	1053.8	1040.7	1019.8	987.7
7.5°	1013.9	1016.8	1046.0	1108.0	1158.6	1188.4	1205.7	1202.1	1178.9	1139.0	1074.6
10°	1075.8	1079.4	1118.1	1193.8	1253.3	1283.7	1309.3	1311.7	1286.1	1233.1	1159.2
12.5°	1136.0	1139.6	1180.1	1252.7	1305.2	1317.7	1340.3	1349.2	1342.7	1305.2	1228.3
15°	1200.9	1209.3	1243.8	1298.0	1320.1	1305.2	1320.1	1336.1	1358.2	1354.6	1285.5
17.5°	1264.7	1270.6	1305.8	1324.8	1300.4	1261.7	1268.8	1287.9	1337.9	1386.8	1342.1
20°	1323.6	1332.0	1361.2	1336.1	1262.3	1202.1	1202.7	1227.7	1304.0	1406.4	1399.9
22.5°	1385.6	1398.1	1418.9	1348.6	1227.1	1155.0	1158.0	1180.7	1277.2	1424.9	1465.4
25°	1466.6	1478.5	1492.2	1379.6	1215.8	1131.8	1143.1	1164.0	1277.2	1456.5	1546.4
27.5°	1576.2	1584.5	1585.1	1437.4	1235.5	1135.4	1159.2	1183.0	1315.3	1519.6	1654.8
30°	1713.8	1726.9	1709.6	1527.4	1296.8	1183.0	1218.2	1248.0	1397.5	1626.2	1814.5
32.5°	1881.2	1899.7	1876.4	1660.8	1424.9	1347.5	1411.2	1428.5	1528.5	1780.5	1995.6
35°	2077.8	2093.3	2068.2	1845.5	1723.9	1738.2	1853.8	1831.8	1791.8	1970.5	2207.0
37.5°	2293.4	2307.7	2259.5	2125.4	2165.9	2227.9	2412.6	2336.9	2208.2	2215.4	2436.4
40°	2491.2	2506.7	2431.0	2429.8	2513.2	2626.4	2849.2	2744.9	2569.8	2535.9	2651.4
42.5°	2696.1	2706.8	2638.3	2591.9	2781.3	3014.2	3250.1	3109.5	2809.3	2772.3	2920.7
45°	2988.6	3011.2	2889.1	2671.7	3022.5	3460.4	3789.2	3514.6	2972.5	2942.7	3332.9
47.5°	3418.7	3435.4	3186.4	2721.7	3247.1	4016.2	4462.9	4040.0	3116.1	3048.2	3896.4
50°	3774.3	3785.6	3459.8	2776.5	3486.0	4615.4	5230.8	4663.1	3277.5	3222.7	4422.4
52.5°	4036.4	4079.3	3819.0	2889.1	3799.9	5320.1	6080.8	5401.1	3529.5	3559.9	4858.5
55°	4090.6	4149.0	4064.4	2958.2	4076.3	6037.9	6865.9	6061.8	3780.9	3815.4	5005.0
57.5°	3595.0	3641.5	3711.8	2679.4	4069.8	6366.8	7321.6	6281.0	3666.5	3421.7	4456.4
60°	2693.1	2725.3	2852.8	2048.0	3742.7	6076.1	6966.6	5908.1	3206.0	2610.9	3395.4
62.5°	1597.0	1611.3	1772.8	1326.6	3106.5	5232.6	5777.6	5097.9	2533.5	1756.1	2079.6
65°	613.0	607.0	730.3	654.7	2284.5	4168.1	4297.3	3886.3	1738.2	804.8	792.9
67.5°	94.7	90.5	122.1	193.6	1647.7	2888.5	2835.5	2800.9	1088.9	187.6	163.8
70°	21.4	21.4	26.2	57.2	1006.7	1697.1	1816.3	1731.7	697.0	39.9	21.4
72.5°	10.1	10.1	12.5	24.4	364.6	699.3	814.9	802.4	226.4	13.1	7.7
75°	3.6	4.2	4.2	5.4	22.0	36.3	83.4	59.6	14.3	0.0	0.0
77.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2
2.5°	866.1	862.0	846.5	825.6	805.4	787.5	769.0	747.0	730.9	712.4	706.5
5°	962.6	936.4	894.1	850.1	809.5	775.0	741.6	705.9	679.7	653.5	644.5
7.5°	1044.2	1005.5	937.0	870.9	815.5	766.7	718.4	669.6	631.4	600.5	590.9
10°	1117.5	1072.8	981.1	899.5	829.8	773.2	714.8	653.5	604.0	567.1	558.2
12.5°	1180.7	1128.8	1018.6	920.9	835.8	770.8	714.2	665.4	620.7	578.4	567.1
15°	1233.7	1176.5	1050.2	935.2	826.8	741.0	691.6	683.9	680.3	633.8	611.8
17.5°	1285.5	1221.2	1075.8	941.8	801.8	688.6	652.9	688.0	725.6	695.2	667.2
20°	1339.7	1266.4	1102.0	943.0	760.1	629.6	623.7	679.1	726.7	717.2	691.0
22.5°	1403.4	1323.0	1134.8	942.4	707.7	579.6	602.2	661.8	700.5	699.9	679.1
25°	1495.8	1394.5	1178.9	946.0	650.5	540.9	578.4	632.6	664.2	663.0	645.7
27.5°	1594.7	1479.7	1236.1	954.9	601.6	518.3	550.4	592.7	620.1	618.9	604.0
30°	1733.5	1578.0	1290.9	955.5	566.5	506.3	519.4	548.6	574.8	571.9	560.5
32.5°	1902.0	1688.8	1336.7	921.5	544.5	495.0	487.3	502.2	522.4	518.3	515.3
35°	2105.8	1820.4	1376.0	847.1	510.5	472.4	451.5	454.5	468.8	471.2	470.0
37.5°	2338.1	1977.1	1424.9	748.8	464.6	439.6	411.6	409.2	417.6	425.3	431.3
40°	2567.4	2153.4	1491.0	649.3	422.9	397.9	371.1	365.2	368.7	382.4	394.9
42.5°	2825.4	2357.7	1562.5	564.1	394.3	352.1	326.4	315.1	325.2	347.3	362.2
45°	3197.1	2644.3	1632.2	496.2	382.4	311.5	277.0	275.8	287.1	315.7	332.4
47.5°	3718.9	3014.8	1678.1	443.2	381.8	280.0	238.9	246.0	259.1	287.1	306.2
50°	4227.6	3478.8	1627.4	402.7	369.3	259.1	210.3	224.6	237.7	262.1	281.8
52.5°	4534.4	3728.4	1430.3	364.6	330.6	249.6	182.3	207.3	209.7	231.7	252.6
55°	4502.2	3567.0	1095.5	305.6	273.4	235.9	153.1	187.0	188.2	204.9	222.8
57.5°	3907.7	3062.5	752.4	247.8	205.5	194.8	126.3	157.9	169.2	179.3	192.4
60°	2912.3	2234.4	335.4	201.3	130.5	131.6	107.8	119.1	136.4	148.3	159.6
62.5°	1716.2	1285.5	136.4	120.9	72.1	82.8	87.0	87.0	97.7	106.6	113.8
65°	648.7	449.7	55.4	60.8	37.5	38.7	51.2	63.1	71.5	79.2	88.8
67.5°	113.8	78.6	28.6	22.6	22.0	19.7	26.2	41.1	45.9	51.8	56.0
70°	19.1	16.1	11.9	11.3	10.1	10.7	17.3	29.2	32.2	34.0	35.7
72.5°	5.4	4.8	3.6	3.0	2.4	3.0	10.7	22.6	23.8	25.0	26.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	16.1	17.3	17.9	19.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	4.8	6.0	4.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2
2.5°	702.9	691.0	684.4	680.9	680.9	676.1	670.7	669.0	676.7	676.7	689.8
5°	633.2	623.7	613.0	606.4	596.3	598.1	592.1	591.5	599.3	602.8	616.5
7.5°	585.0	573.1	566.5	562.3	557.0	554.6	549.2	547.4	551.6	557.6	570.7
10°	552.8	551.0	550.4	553.4	553.4	550.4	545.7	542.7	543.9	555.2	570.1
12.5°	561.1	564.7	565.9	570.7	573.1	570.7	567.1	568.3	576.0	596.9	618.9
15°	597.5	594.5	593.3	595.7	597.5	595.1	593.9	602.8	629.6	659.4	684.4
17.5°	636.2	617.1	608.8	608.8	610.0	608.8	610.0	627.3	670.7	700.5	719.0
20°	655.9	620.7	607.6	604.6	607.0	607.6	611.8	631.4	679.1	699.9	704.1
22.5°	649.9	605.8	590.9	588.5	590.9	593.3	597.5	614.2	658.8	669.6	667.8
25°	620.1	576.6	564.7	564.7	570.1	569.5	571.3	583.2	620.1	626.7	623.7
27.5°	582.6	541.5	531.4	537.3	542.1	540.9	541.5	551.6	579.0	580.8	577.8
30°	544.5	508.7	499.2	506.3	512.9	511.7	512.3	522.4	539.7	537.9	533.7
32.5°	505.7	479.5	472.4	476.6	486.7	485.5	487.9	498.6	505.1	497.4	492.6
35°	470.0	456.3	450.9	453.3	461.1	462.9	467.0	474.2	474.2	464.6	456.3
37.5°	436.6	434.9	431.3	428.3	435.5	440.8	446.8	455.1	443.2	429.5	421.7
40°	405.7	413.4	408.6	400.9	405.1	412.8	424.7	431.3	417.0	403.3	390.2
42.5°	377.1	390.2	388.4	378.9	382.4	389.6	403.3	408.6	392.0	376.5	364.0
45°	349.7	368.1	369.3	357.4	361.0	368.1	384.2	386.0	364.6	347.9	338.9
47.5°	325.8	346.1	346.7	337.8	338.9	349.1	364.0	364.6	340.1	324.7	313.3
50°	303.2	326.4	328.2	320.5	321.7	333.6	346.1	343.7	317.5	301.4	291.3
52.5°	275.8	307.4	311.5	308.0	312.7	322.3	330.0	321.7	291.3	275.2	266.3
55°	246.0	287.1	296.1	293.7	299.0	306.8	308.6	303.2	265.1	249.0	240.7
57.5°	211.5	236.5	252.0	247.2	251.4	259.1	264.5	260.3	231.7	219.2	212.1
60°	175.1	191.8	195.4	187.6	184.1	197.8	210.3	204.9	180.5	172.8	164.4
62.5°	128.1	147.1	149.5	139.4	135.2	150.1	160.8	155.5	128.7	120.3	113.8
65°	102.5	120.3	125.1	115.6	113.2	124.5	131.1	117.9	98.9	89.9	82.8
67.5°	67.3	81.6	94.1	93.5	88.8	92.3	87.6	76.8	63.1	58.4	53.6
70°	41.7	50.0	57.8	60.8	60.2	59.0	52.4	44.7	40.5	38.7	36.3
72.5°	32.2	40.5	46.5	48.3	48.8	47.1	41.7	34.6	30.4	28.0	26.2
75°	23.8	30.4	35.1	37.5	38.7	37.5	32.2	27.4	23.2	21.4	19.7
77.5°	8.3	10.1	12.5	13.7	13.1	12.5	11.3	11.3	8.9	8.3	7.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2
2.5°	704.7	715.4	735.1	753.0	772.0	791.7	813.1	835.2	845.3	844.1
5°	637.4	660.6	692.8	727.9	767.3	809.5	856.6	904.9	925.7	934.6
7.5°	595.1	627.9	670.2	714.8	766.7	826.8	897.7	973.4	1003.7	1013.9
10°	600.5	638.6	673.7	717.2	772.6	850.6	938.8	1028.8	1064.5	1075.8
12.5°	643.9	652.3	661.8	697.6	767.3	868.5	976.3	1083.6	1124.7	1136.0
15°	683.3	644.5	626.7	659.4	748.2	881.0	1014.5	1142.5	1187.8	1200.9
17.5°	685.0	626.7	586.8	612.4	717.2	886.4	1052.0	1202.7	1252.1	1264.7
20°	663.0	607.0	555.8	556.4	674.9	885.2	1083.0	1256.9	1312.3	1323.6
22.5°	630.8	583.8	530.8	512.3	629.6	882.8	1116.9	1314.7	1374.9	1385.6
25°	595.1	554.0	506.9	478.9	584.4	885.2	1164.6	1390.3	1456.5	1466.6
27.5°	556.4	521.2	488.5	465.8	546.2	894.1	1221.8	1486.8	1565.5	1576.2
30°	515.9	489.7	476.6	462.9	522.4	896.5	1283.7	1599.4	1698.9	1713.8
32.5°	476.0	461.7	462.3	464.6	499.8	879.8	1340.3	1724.5	1857.4	1881.2
35°	439.0	434.9	446.8	458.7	467.0	836.9	1389.7	1872.3	2053.3	2077.8
37.5°	407.5	411.0	425.9	437.8	431.3	776.2	1455.3	2056.9	2272.6	2293.4
40°	377.1	386.0	403.3	408.6	403.9	705.3	1533.9	2235.0	2462.6	2491.2
42.5°	349.1	355.6	380.1	381.2	396.1	633.2	1609.6	2426.8	2681.2	2696.1
45°	326.4	325.2	350.3	358.0	406.3	553.4	1683.4	2682.4	2967.1	2988.6
47.5°	304.4	303.2	309.2	344.3	410.4	479.5	1756.7	3056.5	3381.7	3418.7
50°	283.5	285.3	266.9	337.8	387.8	422.9	1790.1	3402.6	3758.8	3774.3
52.5°	265.1	258.5	226.4	316.3	339.5	369.3	1695.3	3559.9	3992.3	4036.4
55°	238.9	202.5	186.5	256.7	268.1	322.3	1388.6	3468.7	4012.6	4090.6
57.5°	204.3	159.0	158.5	189.4	189.4	299.0	889.4	2963.6	3458.0	3595.0
60°	157.3	123.3	131.1	131.6	121.5	218.0	499.2	2146.9	2556.7	2693.1
62.5°	112.0	94.1	98.9	78.6	69.7	109.0	239.5	1236.1	1578.0	1597.0
65°	75.1	63.7	51.8	43.5	42.9	46.5	98.9	446.8	543.3	613.0
67.5°	49.4	38.7	27.4	27.4	31.0	31.0	37.5	73.9	103.7	94.7
70°	32.2	26.8	17.3	16.7	20.3	20.3	19.1	20.3	21.4	21.4
72.5°	23.8	20.3	10.1	8.9	11.3	11.9	10.7	10.1	10.1	10.1
75°	17.9	14.3	6.0	4.2	5.4	7.1	6.0	4.2	4.2	3.6
77.5°	7.1	5.4	2.4	1.8	3.0	4.2	3.6	1.8	1.2	1.2
80°	0.6	1.2	1.2	1.2	1.8	2.4	3.0	1.2	0.6	0.6
82.5°	0.0	0.6	0.6	0.6	1.2	1.8	2.4	1.2	0.6	0.6
85°	0.0	0.0	0.0	0.0	1.2	1.8	1.2	0.6	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.6	1.8	1.2	0.6	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

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