

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: P631772

Luminaire Tested: GWS-SA2B-735-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-735-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

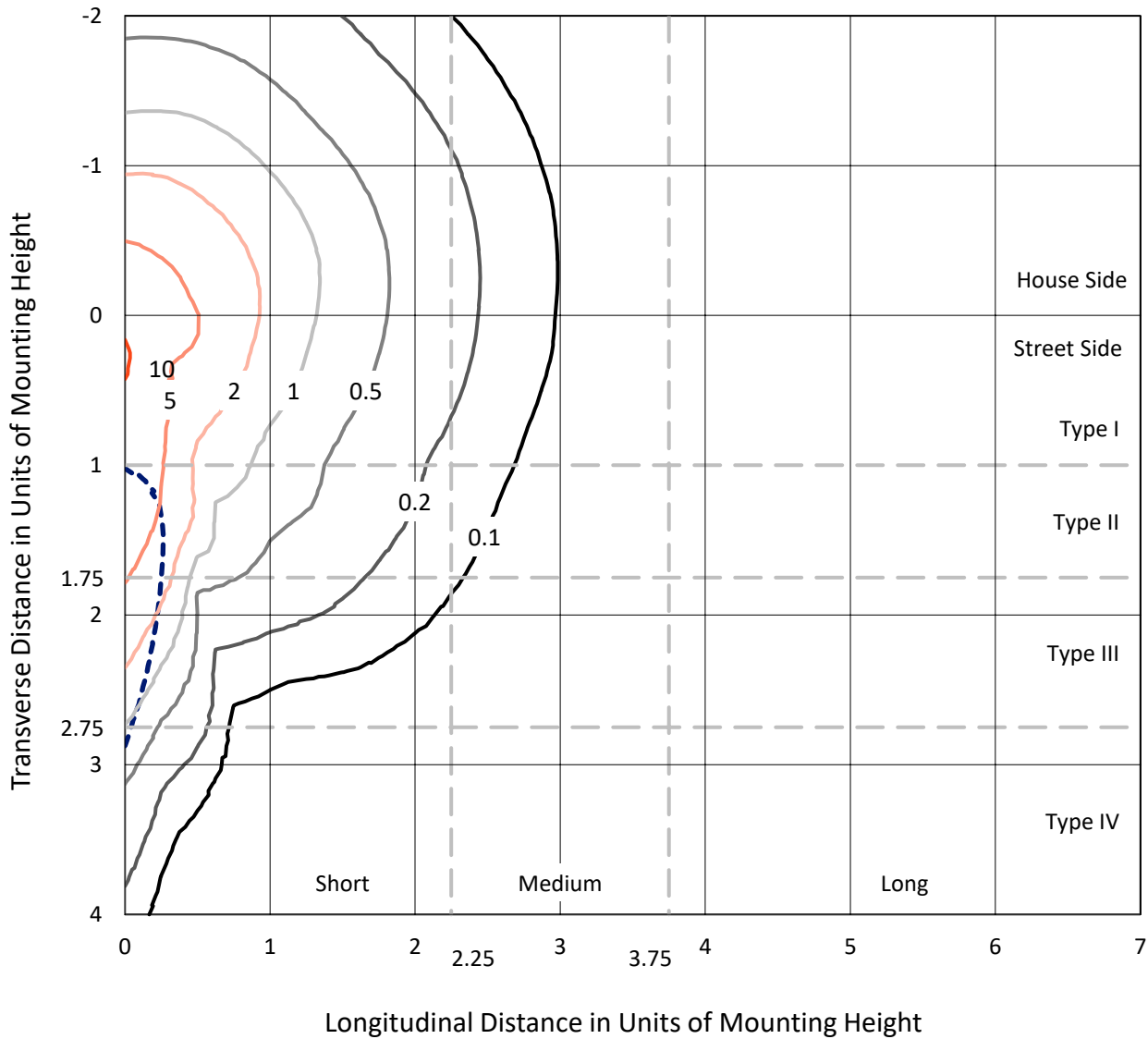
Lumens per Lamp: N/A  
Luminaire Lumens: 6379.4 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): 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

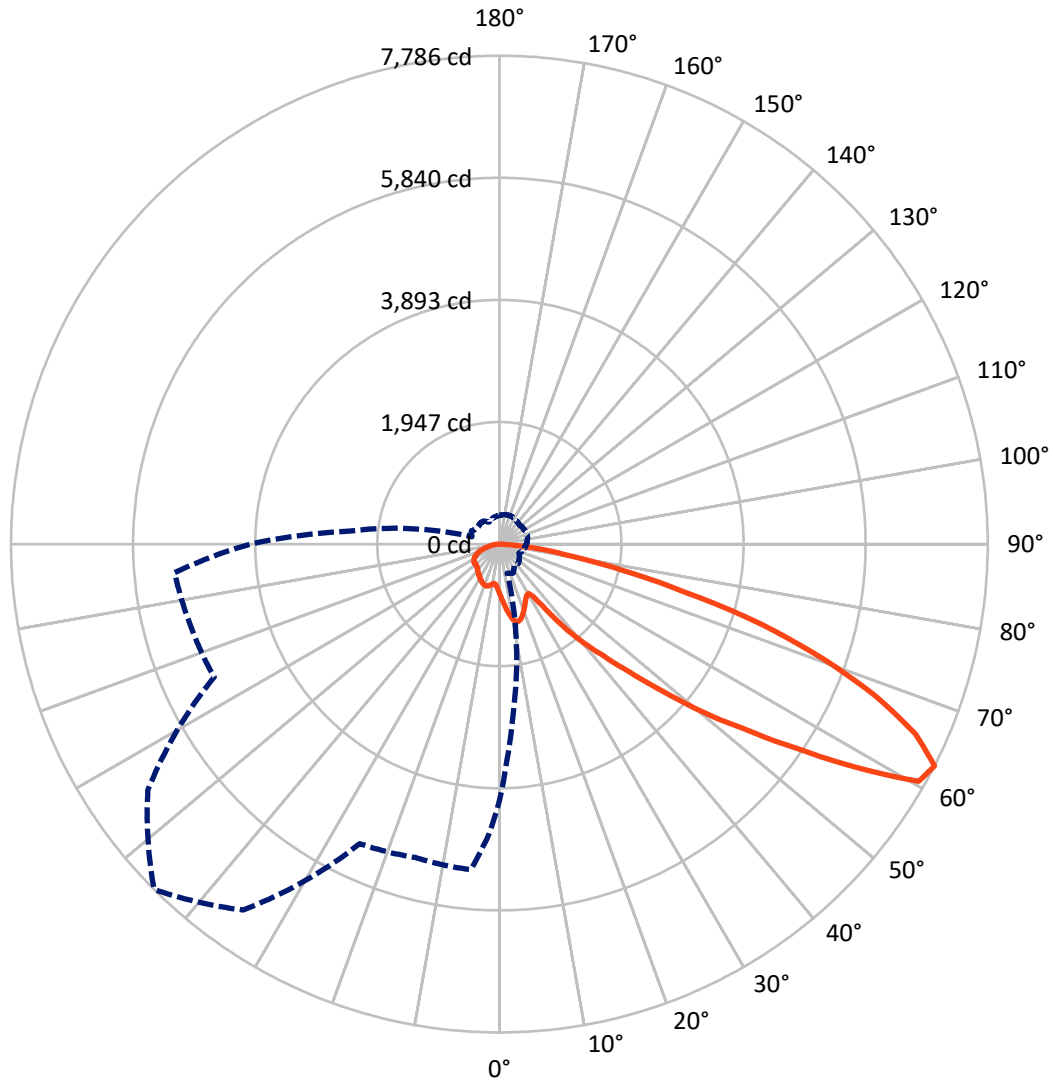
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1525.3	0.0	1525.3
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	4854.1	0.0	4854.1
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	6379.4	0.0	6379.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.4	1.2
10°-20°	254.7	4.0
20°-30°	400.9	6.3
30°-40°	549.5	8.6
40°-50°	857.4	13.4
50°-60°	1478.3	23.2
60°-70°	1713.2	26.9
70°-80°	904.3	14.2
80°-90°	142.8	2.2
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°	6379.4	100.0
0°-180°	6379.4	100.0

**Coefficient of Utilization**



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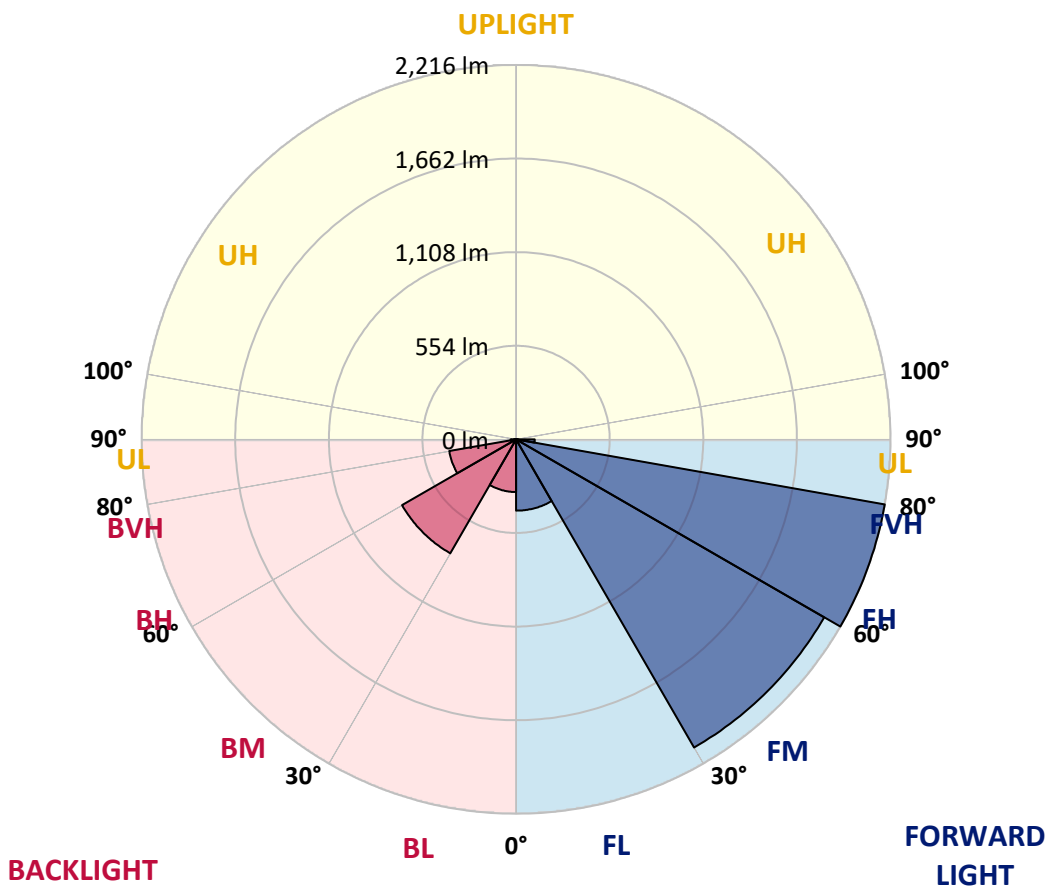
CATALOG NUMBER: GWS-SA2B-735-U-SLL-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.9	6.6			
FM (30°-60°)	2106.1	33.0			
FH (60°-80°)	2215.8	34.7			G2/5000
FVH (80°-90°)	110.3	1.7			G2/225
BL (0°-30°)	312.0	4.9	B1/500		
BM (30°-60°)	779.1	12.2	B1/1000		
BH (60°-80°)	401.6	6.3	B1/500		G1/500
BVH (80°-90°)	32.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4
2.5°	864.2	860.8	855.9	839.3	829.0	817.3	805.1	791.0	774.9	763.7	752.4
5°	937.4	932.0	920.3	880.8	853.4	823.7	798.8	770.5	742.7	723.6	704.6
7.5°	1007.6	1000.8	982.8	922.2	877.8	834.9	797.3	756.3	714.9	686.6	664.1
10°	1077.9	1063.8	1040.8	961.8	903.2	853.4	810.5	760.2	705.1	666.6	642.6
12.5°	1131.6	1118.4	1093.5	997.9	928.6	866.1	817.8	771.5	724.6	683.6	659.2
15°	1181.8	1164.8	1136.5	1031.6	949.6	865.6	803.2	762.7	755.9	745.6	713.9
17.5°	1218.0	1202.3	1173.1	1058.9	961.3	850.5	762.7	738.8	769.5	800.7	770.5
20°	1249.7	1231.6	1201.9	1077.9	963.7	816.8	713.4	713.9	762.2	805.1	797.8
22.5°	1276.5	1256.5	1230.2	1099.4	962.8	770.0	670.5	699.7	748.0	781.7	782.7
25°	1309.7	1293.1	1271.1	1131.1	962.8	722.2	639.2	682.7	724.1	752.4	751.5
27.5°	1350.2	1339.0	1320.9	1179.4	971.5	682.2	621.7	660.7	693.4	717.8	717.3
30°	1395.6	1385.3	1371.7	1230.6	986.7	652.4	611.9	633.4	657.3	676.8	676.8
32.5°	1441.9	1438.0	1423.4	1271.6	974.9	643.1	603.6	606.0	618.7	634.8	633.4
35°	1506.3	1502.4	1483.9	1303.3	924.2	630.0	590.4	578.2	579.7	589.9	593.4
37.5°	1600.5	1594.7	1567.3	1340.4	847.6	596.8	569.0	549.0	544.6	549.0	555.3
40°	1714.2	1705.4	1668.3	1390.7	759.3	551.9	535.3	518.7	511.4	512.8	520.2
42.5°	1856.7	1838.2	1785.0	1443.9	671.9	512.4	497.7	487.5	479.2	478.2	492.4
45°	2088.0	2037.2	1952.8	1491.2	598.2	491.4	464.1	456.7	449.9	453.8	470.4
47.5°	2492.0	2398.3	2233.9	1531.7	553.3	491.9	437.2	429.4	428.9	436.7	455.3
50°	3047.3	2912.2	2658.4	1559.0	529.9	497.7	421.1	408.4	417.7	425.5	443.1
52.5°	3579.2	3372.8	3070.7	1558.6	519.7	498.7	425.5	388.9	417.7	419.6	436.2
55°	4033.5	3659.7	3182.0	1398.5	505.0	494.8	442.6	373.8	412.3	419.6	432.8
57.5°	4394.6	3842.2	3173.7	1129.6	549.4	473.3	452.8	370.4	396.7	420.6	435.8
60°	4354.6	3758.8	2969.3	693.4	545.1	435.3	451.4	376.7	370.4	407.4	432.3
62.5°	4088.6	3459.7	2617.4	481.1	511.9	413.3	427.5	387.9	346.0	388.4	415.7
65°	3716.3	3073.7	2181.2	368.9	424.0	414.3	387.0	380.1	324.5	358.2	387.4
67.5°	3224.0	2595.0	1722.0	292.3	295.7	358.7	351.3	337.7	304.5	331.3	357.7
70°	2423.7	1893.8	1184.8	235.2	224.0	299.6	315.7	303.5	285.0	292.8	320.6
72.5°	1707.9	1236.5	649.0	186.4	172.7	230.3	274.2	272.3	251.8	257.6	285.0
75°	1269.2	874.9	405.5	147.4	140.5	164.9	229.8	235.7	218.6	225.4	246.4
77.5°	844.7	566.5	225.4	109.3	109.3	120.5	171.3	198.6	185.9	191.3	205.9
80°	466.0	288.4	112.7	71.7	73.7	83.0	124.9	143.0	143.5	156.6	160.5
82.5°	147.4	91.7	50.3	42.0	39.5	47.3	80.5	102.5	95.6	122.0	112.2
85°	33.7	21.5	9.3	9.3	10.2	15.6	30.7	54.7	69.8	83.9	61.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	21.5	31.7	28.3
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°	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4
2.5°	745.6	735.8	732.9	724.6	723.6	715.8	712.9	712.9	716.3	716.3	719.7
5°	696.8	684.6	677.8	668.0	665.6	659.7	655.8	656.3	660.7	663.6	669.5
7.5°	653.9	645.6	640.7	636.3	635.3	634.4	630.0	629.5	630.9	635.3	639.7
10°	635.8	630.0	631.4	634.8	640.2	643.1	639.2	637.3	635.8	638.7	642.6
12.5°	653.4	647.5	650.5	656.3	663.6	666.6	665.1	664.6	666.1	677.3	685.6
15°	691.9	680.7	676.8	679.2	685.1	688.0	686.6	688.5	697.8	727.1	748.0
17.5°	739.8	712.4	696.8	692.4	694.9	697.3	697.3	702.2	718.3	761.2	787.6
20°	765.6	730.0	703.6	692.9	693.9	696.3	696.3	703.2	721.2	767.1	784.2
22.5°	758.8	726.1	693.9	682.2	682.7	684.6	684.6	690.5	706.6	747.1	754.9
25°	731.9	703.2	671.4	661.2	662.2	665.6	664.6	668.0	680.2	713.4	717.8
27.5°	699.7	674.4	643.1	635.3	639.7	646.6	640.7	641.2	652.4	680.2	680.7
30°	665.1	644.1	616.3	610.4	618.7	622.2	616.8	616.8	628.0	647.0	646.6
32.5°	627.5	614.3	594.3	588.0	597.3	602.6	595.8	596.8	605.6	618.2	613.4
35°	592.4	585.6	576.3	571.9	577.7	582.6	578.2	580.2	588.5	591.9	585.1
37.5°	558.7	557.7	558.7	558.7	560.2	561.6	558.7	563.6	570.9	566.5	558.7
40°	529.4	533.3	542.6	540.2	538.7	540.2	538.2	546.5	553.8	546.0	536.8
42.5°	505.0	512.4	526.5	526.5	523.6	524.6	523.6	533.8	539.2	528.5	518.2
45°	484.1	494.8	512.8	515.3	510.4	510.4	512.4	525.0	527.0	512.4	501.6
47.5°	469.4	482.6	503.1	507.5	500.2	499.7	505.0	518.7	518.7	501.6	489.4
50°	459.2	473.8	498.2	504.1	496.7	494.8	503.6	516.8	513.8	493.3	481.1
52.5°	452.3	467.5	497.7	506.0	501.1	499.2	508.0	517.2	509.9	488.0	475.3
55°	447.9	464.5	499.2	506.0	500.6	497.2	506.0	514.3	510.4	485.0	472.8
57.5°	450.4	467.0	497.2	500.6	494.3	488.5	498.7	510.4	508.9	486.0	473.8
60°	446.5	461.6	486.5	487.5	476.7	467.5	482.6	500.2	500.2	482.6	471.9
62.5°	428.4	443.6	465.5	466.5	454.3	444.0	461.6	482.6	482.1	468.0	456.7
65°	398.7	412.8	437.7	440.1	427.9	417.2	435.3	454.8	456.2	443.6	433.8
67.5°	366.0	378.7	397.2	407.0	396.7	385.5	402.1	420.6	420.1	405.0	394.8
70°	326.9	338.6	355.7	364.0	357.7	346.9	362.1	371.8	367.4	360.1	353.3
72.5°	288.4	299.6	315.7	315.7	308.9	298.6	303.0	320.6	326.0	320.6	316.2
75°	247.9	257.6	268.9	271.3	256.2	237.6	258.1	273.3	279.6	277.2	271.8
77.5°	206.4	213.7	230.3	225.9	197.6	187.9	204.5	226.9	231.3	229.8	222.5
80°	159.1	163.5	181.0	172.3	150.3	143.9	151.3	168.8	169.8	164.9	155.7
82.5°	106.9	112.7	124.4	107.4	106.9	101.0	95.2	97.1	105.9	104.9	98.6
85°	54.7	57.6	68.8	64.4	55.1	47.8	45.4	48.3	43.4	39.5	34.2
87.5°	22.9	24.9	34.2	19.0	5.9	0.0	0.0	2.9	4.4	6.3	6.8
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°	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4
2.5°	727.6	732.9	746.1	762.7	778.8	795.4	813.4	824.7	838.3	855.9	856.4
5°	676.8	689.0	708.0	733.4	759.8	790.0	825.1	854.4	889.6	917.4	928.6
7.5°	645.6	663.1	687.1	719.3	753.9	791.5	837.3	886.6	944.2	981.3	1003.3
10°	648.5	675.3	699.3	726.6	757.8	798.3	857.4	922.7	993.5	1042.3	1069.6
12.5°	700.7	729.0	724.6	723.2	744.1	793.4	873.5	959.3	1045.7	1094.5	1127.2
15°	766.6	777.3	735.8	704.6	717.3	775.9	882.2	992.0	1089.1	1148.7	1180.9
17.5°	800.3	778.8	728.5	681.7	678.3	749.0	886.6	1025.2	1137.9	1197.5	1231.6
20°	784.6	753.4	711.0	666.6	642.2	712.4	884.2	1051.6	1182.3	1248.7	1276.5
22.5°	751.0	723.6	690.5	648.0	612.9	672.4	877.8	1077.9	1221.9	1288.7	1313.1
25°	714.4	693.9	666.6	629.5	596.3	637.3	873.5	1113.0	1267.2	1331.2	1346.8
27.5°	677.8	662.7	640.2	611.4	592.4	612.9	874.9	1158.9	1325.8	1386.3	1380.0
30°	641.7	628.5	612.9	600.2	591.9	607.0	871.0	1207.7	1390.2	1446.3	1408.7
32.5°	607.5	595.3	585.6	587.5	592.4	609.5	851.0	1252.1	1449.2	1497.1	1440.0
35°	578.2	565.5	565.5	572.4	590.4	601.2	799.3	1286.8	1514.6	1562.5	1484.4
37.5°	550.9	539.7	547.0	558.2	575.3	578.7	732.9	1320.4	1609.8	1654.7	1553.2
40°	527.0	515.8	529.0	543.1	551.9	550.4	665.6	1367.3	1722.0	1768.4	1644.4
42.5°	508.0	497.7	509.4	527.5	529.0	530.4	616.3	1412.2	1852.3	1911.3	1801.6
45°	492.4	485.0	490.9	508.9	508.9	531.4	585.6	1449.7	2048.5	2152.9	2089.9
47.5°	480.2	475.8	478.7	484.5	494.3	549.0	566.0	1478.5	2405.7	2610.6	2547.2
50°	473.3	468.9	472.8	460.6	489.9	557.7	559.7	1500.5	2876.5	3197.6	3119.1
52.5°	467.5	466.0	468.4	440.1	499.7	551.9	554.8	1471.2	3192.3	3775.4	3853.0
55°	465.5	466.5	454.8	425.0	511.4	532.4	540.2	1261.9	3278.1	4273.6	4755.2
57.5°	466.5	463.6	433.8	426.5	511.9	493.3	561.2	900.3	3153.2	4490.2	5637.9
60°	463.1	448.4	408.4	439.7	489.4	447.5	546.0	587.0	2823.8	4323.8	5689.2
62.5°	447.9	426.5	386.5	447.0	449.4	420.1	495.8	452.3	2384.7	3967.6	5195.3
65°	426.0	397.2	367.9	431.8	408.9	407.4	372.8	362.6	1917.7	3543.6	4726.9
67.5°	389.9	361.1	354.3	397.2	367.9	361.1	299.6	300.6	1530.3	3091.7	4256.0
70°	348.9	320.1	325.5	359.1	327.4	300.1	242.5	250.3	1160.9	2576.0	3621.2
72.5°	322.1	283.5	284.0	316.2	287.9	243.0	199.6	206.4	736.8	1941.6	2879.0
75°	271.8	249.8	239.1	256.2	244.5	189.3	167.9	166.4	436.7	1391.7	2155.8
77.5°	226.9	209.8	204.5	211.3	182.5	140.0	135.2	132.7	247.4	891.5	1412.7
80°	164.4	160.1	159.6	163.0	140.5	103.0	103.0	103.4	133.2	484.1	796.4
82.5°	104.4	114.2	101.0	112.2	95.6	73.2	68.3	77.6	76.6	206.4	335.7
85°	43.4	59.5	55.6	59.0	45.4	40.0	42.9	46.4	44.4	79.5	130.8
87.5°	8.3	9.8	10.7	10.2	10.2	12.7	14.2	17.1	17.1	22.9	39.5
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4
2.5°	874.9	889.1	886.1	892.5	884.2	887.1	870.5	866.1	863.2	864.2
5°	964.7	993.5	998.9	1009.6	1002.3	1002.3	973.0	951.0	943.2	937.4
7.5°	1056.0	1097.4	1124.8	1127.7	1123.8	1116.0	1073.5	1034.0	1019.8	1007.6
10°	1137.0	1186.7	1217.5	1232.1	1224.8	1212.6	1159.9	1105.7	1088.6	1077.9
12.5°	1198.9	1242.8	1263.3	1273.1	1272.1	1267.7	1224.8	1166.2	1148.2	1131.6
15°	1238.9	1260.9	1253.1	1252.6	1259.4	1277.0	1263.8	1218.0	1197.0	1181.8
17.5°	1264.8	1243.8	1209.2	1193.1	1207.7	1249.2	1279.4	1253.6	1234.5	1218.0
20°	1274.1	1199.4	1149.2	1119.4	1136.5	1196.5	1271.1	1279.4	1263.3	1249.7
22.5°	1263.3	1145.2	1076.9	1041.8	1058.4	1130.1	1246.7	1300.4	1289.7	1276.5
25°	1237.0	1088.6	1006.7	974.9	993.0	1066.2	1203.3	1319.9	1320.4	1309.7
27.5°	1204.3	1036.4	957.4	927.6	945.2	1013.5	1160.9	1337.0	1354.1	1350.2
30°	1171.1	1005.2	934.0	913.0	926.2	986.7	1117.4	1354.6	1388.7	1395.6
32.5°	1156.0	1020.3	989.1	998.4	981.3	1002.3	1101.8	1379.5	1430.7	1441.9
35°	1176.0	1154.5	1233.6	1270.2	1209.7	1130.1	1121.8	1417.0	1489.7	1506.3
37.5°	1273.1	1441.9	1560.0	1688.8	1583.9	1408.7	1220.9	1481.0	1574.2	1600.5
40°	1484.4	1692.7	1906.0	2072.4	1913.8	1678.1	1409.2	1576.1	1690.3	1714.2
42.5°	1683.5	1927.9	2221.7	2436.9	2231.0	1898.2	1612.2	1736.2	1843.5	1856.7
45°	1878.7	2158.7	2603.8	2902.9	2623.3	2107.5	1819.6	2006.5	2087.5	2088.0
47.5°	2107.5	2418.8	3082.9	3508.9	3143.9	2339.3	2014.3	2434.4	2547.2	2492.0
50°	2381.3	2677.5	3576.3	4214.0	3778.8	2624.3	2261.7	2956.1	3109.8	3047.3
52.5°	2747.7	2962.4	4119.9	4901.6	4470.7	2948.8	2620.4	3645.1	3695.8	3579.2
55°	3263.5	3373.8	4817.7	5750.6	5243.2	3348.4	3144.9	4509.8	4367.8	4033.5
57.5°	4438.0	4024.7	5713.6	6719.2	6117.1	4074.5	4294.6	5463.2	4958.2	4394.6
60°	5420.8	4815.2	6542.6	7680.5	6866.1	4874.7	5373.9	5629.1	4936.2	4354.6
62.5°	5089.5	5016.7	6841.7	7786.4	7121.8	5268.5	5173.4	5211.0	4614.2	4088.6
65°	4465.3	4627.8	6574.8	7284.3	6838.3	4915.7	4679.6	4824.5	4245.8	3716.3
67.5°	4096.9	4216.5	6100.0	6480.6	6323.0	4534.1	4295.5	4190.6	3673.9	3224.0
70°	3720.2	3819.3	5433.5	5472.0	5519.3	3899.8	3512.4	3200.1	2738.4	2423.7
72.5°	3214.7	3220.1	4590.8	4367.3	4457.1	3051.7	2827.3	2392.5	1993.3	1707.9
75°	2697.0	2549.6	3633.9	3052.7	3232.8	2373.9	2347.6	1803.0	1503.4	1269.2
77.5°	2056.3	1884.0	2654.5	2007.5	2270.5	1581.0	1765.0	1222.8	1057.9	844.7
80°	1380.4	1273.1	1466.8	1133.0	1485.4	1089.6	1151.1	692.9	600.7	466.0
82.5°	728.0	621.7	906.6	671.9	895.9	598.7	431.8	214.2	182.5	147.4
85°	282.0	326.4	444.5	239.1	347.4	213.7	124.9	53.2	44.4	33.7
87.5°	54.7	84.4	46.4	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

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