

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: P631776

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631776
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-SA2B-735-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6444.8 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

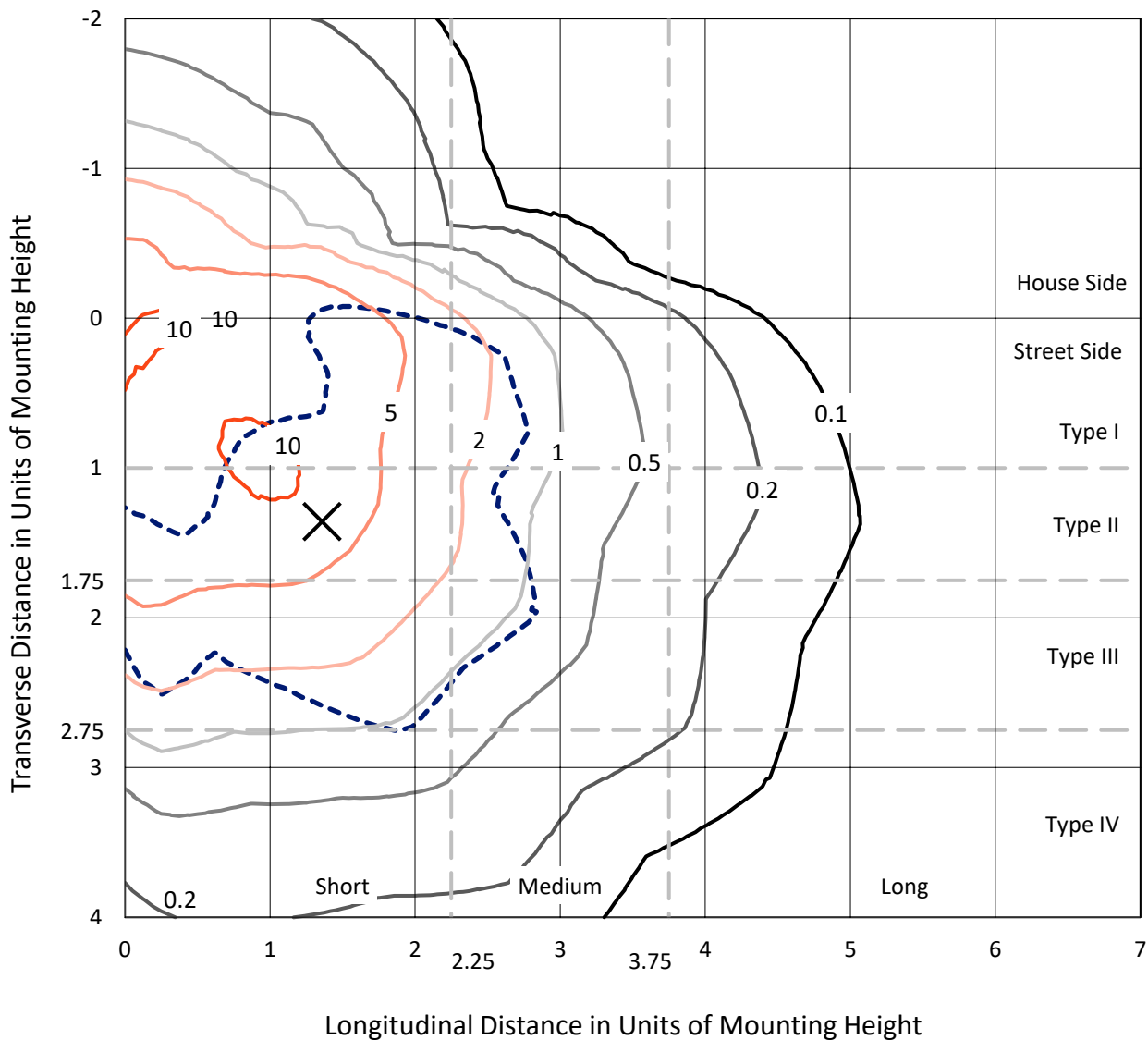
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

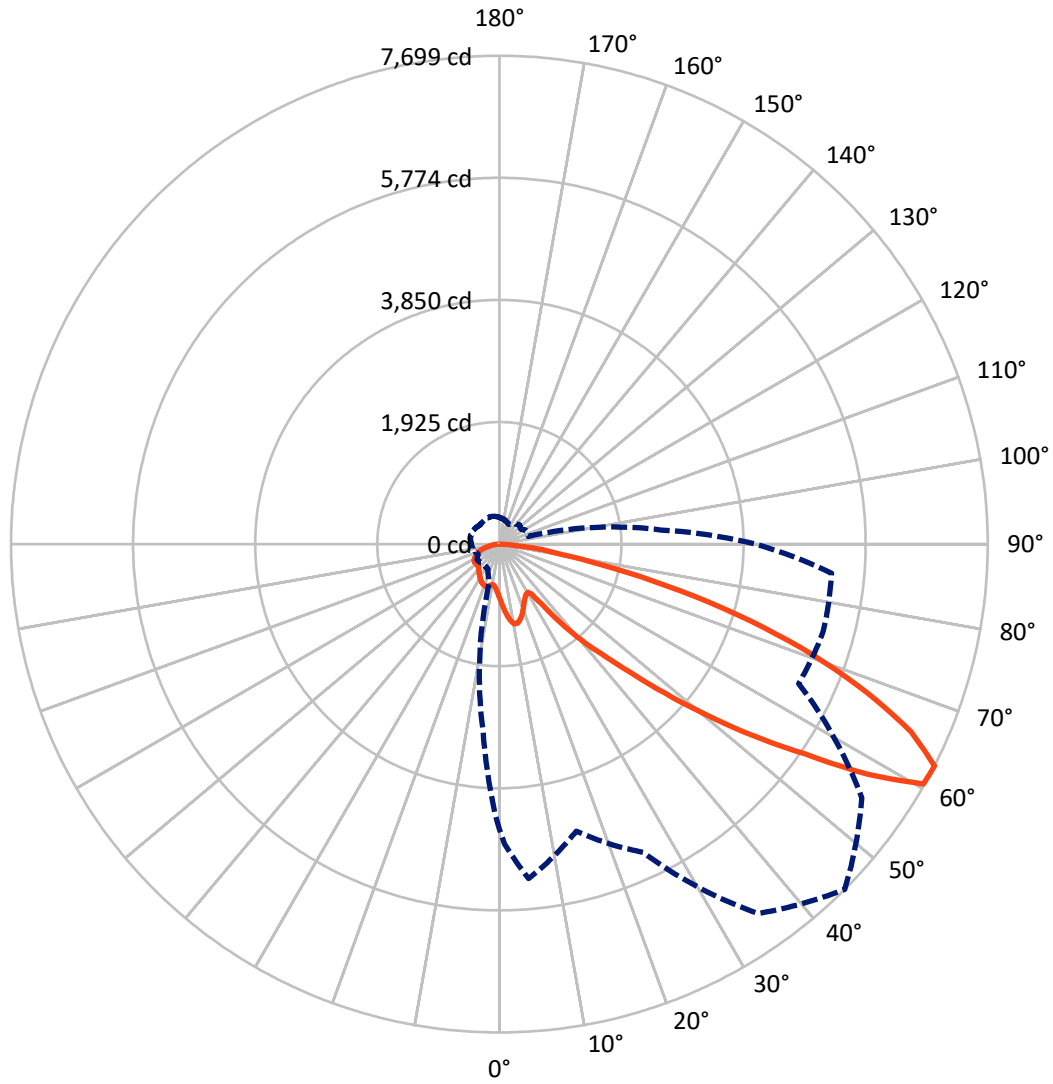
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 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
House Side	Lumens	1537.9	0.0	1537.9
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	4906.9	0.0	4906.9
	% Fixture	76.1	0.0	76.1
Total	Lumens	6444.8	0.0	6444.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	1.3
10°-20°	261.9	4.1
20°-30°	406.8	6.3
30°-40°	552.3	8.6
40°-50°	875.3	13.6
50°-60°	1544.0	24.0
60°-70°	1717.9	26.7
70°-80°	871.3	13.5
80°-90°	131.9	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°	6444.8	100.0
0°-180°	6444.8	100.0

Coefficient of Utilization



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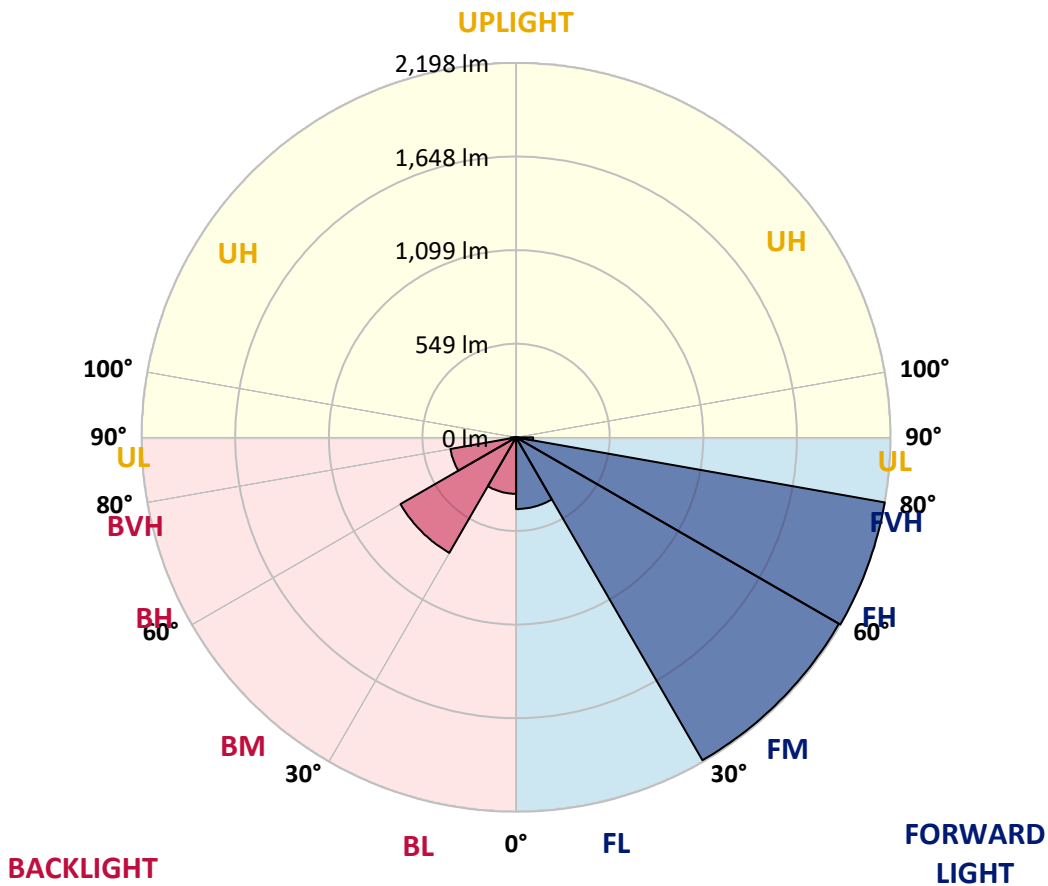
CATALOG NUMBER: GWS-SA2B-735-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.8	6.5			
FM (30°-60°)	2188.3	34.0			
FH (60°-80°)	2197.7	34.1			G2/5000
FVH (80°-90°)	100.1	1.6			G2/225
BL (0°-30°)	331.4	5.1	B1/500		
BM (30°-60°)	783.2	12.2	B1/1000		
BH (60°-80°)	391.5	6.1	B1/500		G1/500
BVH (80°-90°)	31.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4
2.5°	919.3	918.8	928.1	942.2	955.4	961.2	971.0	970.0	962.2	952.0	948.6
5°	991.5	993.4	1009.5	1040.8	1075.4	1090.1	1096.4	1094.0	1079.8	1061.8	1030.0
7.5°	1056.9	1060.3	1085.2	1132.0	1175.0	1194.5	1210.1	1207.2	1186.7	1153.0	1106.2
10°	1104.7	1108.6	1138.4	1193.5	1241.3	1258.4	1278.4	1279.4	1261.3	1215.9	1168.1
12.5°	1152.5	1156.4	1184.2	1234.5	1265.7	1266.2	1277.9	1284.3	1285.2	1264.2	1216.4
15°	1202.3	1205.7	1231.1	1259.4	1257.9	1230.6	1230.6	1242.8	1269.6	1284.7	1251.6
17.5°	1244.7	1249.1	1268.6	1259.4	1215.9	1166.7	1160.8	1176.4	1223.3	1281.3	1277.9
20°	1279.9	1283.3	1294.0	1232.5	1153.5	1089.1	1077.9	1095.9	1159.3	1260.3	1297.9
22.5°	1313.5	1315.5	1309.6	1197.4	1086.2	1012.5	998.8	1017.8	1086.2	1223.3	1315.0
25°	1353.5	1351.6	1323.8	1160.8	1024.7	952.0	937.8	959.3	1030.5	1174.0	1333.5
27.5°	1399.9	1392.6	1336.0	1121.3	977.3	907.1	897.3	920.3	986.6	1128.6	1348.2
30°	1439.4	1425.3	1337.9	1086.2	952.9	888.0	882.2	903.7	965.1	1097.9	1366.7
32.5°	1483.3	1463.8	1349.2	1076.9	966.6	933.9	941.7	943.2	971.0	1089.1	1394.5
35°	1546.3	1520.9	1379.9	1103.7	1107.1	1162.3	1190.6	1152.5	1059.3	1108.6	1447.2
37.5°	1641.4	1609.2	1442.3	1219.8	1397.5	1520.9	1589.2	1502.4	1327.7	1182.3	1526.8
40°	1757.1	1716.1	1522.4	1434.5	1668.8	1866.4	1987.9	1860.5	1603.9	1366.2	1638.5
42.5°	1918.6	1875.6	1677.5	1645.3	1920.0	2214.3	2372.8	2183.0	1847.3	1603.9	1817.6
45°	2200.1	2158.6	1962.0	1856.6	2214.3	2642.7	2865.2	2601.2	2094.7	1842.5	2152.3
47.5°	2720.3	2671.5	2384.6	2090.8	2550.0	3198.9	3510.2	3125.7	2351.9	2115.7	2714.4
50°	3344.8	3298.0	2914.9	2368.0	2920.8	3793.7	4226.5	3742.0	2648.0	2448.0	3386.3
52.5°	4096.2	4087.5	3671.7	2718.3	3306.8	4428.0	5021.4	4424.6	2972.5	2895.4	4147.5
55°	4773.5	4859.4	4633.0	3252.6	3805.4	5224.8	5838.7	5169.2	3412.6	3635.1	5038.9
57.5°	5138.5	5369.3	5717.2	4342.7	4530.5	6177.3	6847.2	6078.3	4168.9	4866.7	5865.5
60°	4897.4	5159.0	5789.4	5163.4	5249.7	6940.4	7679.7	6842.4	4911.6	5721.6	5818.7
62.5°	4496.4	4731.1	5291.7	4684.2	5361.0	7108.3	7699.2	6975.6	5206.8	5287.8	5256.1
65°	4020.6	4257.3	4851.1	4088.9	5007.2	6709.6	7131.2	6583.8	4676.4	4777.4	4789.1
67.5°	3388.7	3607.3	4211.9	3635.6	4564.2	6124.6	6259.3	6025.6	4306.5	4467.6	4299.2
70°	2531.9	2729.0	3262.8	2954.5	3847.4	5362.4	5253.6	5288.3	3891.3	4051.4	3591.2
72.5°	1730.2	1878.6	2336.3	2321.6	2946.2	4292.9	4141.1	4469.5	3250.2	3462.4	2737.8
75°	1210.1	1325.7	1688.8	1834.2	2227.0	3181.8	2949.1	3345.3	2538.3	2841.3	1997.6
77.5°	742.6	819.2	1066.6	1358.9	1432.6	2177.7	1831.7	2517.3	1782.4	2072.3	1332.6
80°	371.3	408.4	518.2	854.4	950.0	1283.3	1011.5	1461.4	1206.2	1283.3	737.3
82.5°	112.2	123.9	151.7	324.5	492.3	738.7	597.7	849.0	658.7	601.6	290.3
85°	29.8	33.7	42.0	96.1	172.7	265.0	202.0	411.3	315.7	222.0	109.3
87.5°	2.4	2.4	2.0	2.0	1.0	0.0	0.0	29.3	59.0	33.7	19.0
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°	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4
2.5°	931.5	929.5	909.5	894.9	877.8	861.2	844.1	829.0	811.9	794.9	790.0
5°	1006.6	993.0	950.5	914.9	879.8	849.0	822.2	794.4	771.9	750.0	741.7
7.5°	1073.0	1049.1	987.6	933.4	884.6	846.6	807.1	766.6	734.8	703.6	695.8
10°	1133.0	1101.3	1023.7	955.4	901.2	857.8	811.4	757.3	711.4	673.4	663.1
12.5°	1177.4	1142.8	1054.9	976.4	914.9	866.1	820.2	772.4	724.1	674.8	663.6
15°	1212.5	1176.4	1080.8	992.5	915.4	852.4	808.0	791.4	776.3	728.0	707.5
17.5°	1240.8	1202.8	1103.2	1002.2	902.2	811.0	772.4	796.8	835.4	805.1	766.6
20°	1266.7	1228.1	1120.3	1009.1	872.9	753.9	732.4	784.1	842.2	841.2	806.6
22.5°	1295.0	1257.4	1145.2	1013.0	831.9	695.8	708.5	765.6	812.9	827.1	805.6
25°	1331.1	1297.9	1179.8	1021.7	785.6	655.8	690.9	741.7	781.2	784.6	771.9
27.5°	1373.1	1348.2	1231.6	1042.2	740.7	635.3	670.4	708.0	744.1	745.6	730.4
30°	1418.9	1402.3	1279.4	1059.3	707.0	629.0	644.1	674.3	697.3	701.2	688.0
32.5°	1477.5	1462.8	1321.8	1048.1	687.0	627.5	619.7	635.3	654.3	654.3	644.1
35°	1558.0	1537.5	1366.7	1005.2	662.6	621.6	593.8	598.2	606.5	608.0	602.1
37.5°	1672.2	1638.5	1412.1	920.3	622.6	600.7	564.1	558.7	561.6	565.5	564.1
40°	1813.7	1758.5	1478.5	818.3	574.8	560.2	533.3	523.1	520.6	528.4	531.4
42.5°	1991.8	1907.4	1549.7	723.1	531.4	513.8	497.2	488.4	484.5	497.7	505.5
45°	2276.2	2137.2	1618.0	629.0	507.0	474.3	463.1	456.7	458.7	474.3	484.0
47.5°	2767.6	2488.0	1682.9	569.4	505.0	446.0	432.3	433.8	439.1	455.7	467.4
50°	3389.2	2957.9	1726.3	544.5	510.9	428.9	410.8	418.7	426.9	443.0	456.7
52.5°	4022.1	3395.6	1674.6	530.9	510.4	429.4	390.8	414.3	418.2	434.3	448.9
55°	4457.3	3444.4	1446.7	509.9	502.6	448.9	375.2	412.3	414.7	429.4	442.6
57.5°	4623.2	3277.5	1103.2	515.8	479.2	464.0	368.4	398.6	416.2	428.9	442.6
60°	4422.7	2962.8	670.4	530.9	441.6	463.1	372.8	373.8	404.0	425.5	439.1
62.5°	4044.5	2558.8	470.9	487.9	414.3	437.2	383.0	344.5	382.5	408.4	420.6
65°	3611.2	2083.5	359.1	420.1	401.1	397.2	386.4	318.6	353.3	378.6	389.4
67.5°	3159.9	1619.5	291.8	313.3	362.5	359.1	353.3	295.7	318.6	336.7	348.9
70°	2591.4	1133.0	246.4	235.2	310.8	322.0	308.9	266.9	274.2	292.8	302.5
72.5°	1895.6	706.0	202.5	194.2	249.8	281.5	274.7	235.2	238.6	256.2	264.0
75°	1363.3	404.0	162.5	160.0	190.8	241.0	227.4	202.5	206.4	219.6	224.9
77.5°	866.6	224.9	125.4	128.8	136.6	180.0	194.2	173.2	173.2	181.0	185.4
80°	464.0	128.8	91.7	93.2	95.6	137.6	153.2	134.2	134.2	128.8	134.2
82.5°	189.3	74.2	62.9	58.6	63.9	94.2	107.3	85.4	89.3	80.5	82.5
85°	62.5	37.1	31.2	30.7	30.3	41.5	51.7	42.5	50.7	32.2	33.7
87.5°	8.3	6.8	3.9	2.9	3.4	1.5	2.9	3.4	3.4	2.4	2.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4
2.5°	786.6	782.7	768.5	771.9	769.5	765.6	769.5	762.2	768.0	770.0	782.2
5°	735.3	726.1	712.4	705.6	704.1	700.2	700.7	697.3	698.2	706.5	720.2
7.5°	689.5	680.7	669.9	665.1	660.7	656.3	655.8	655.3	659.2	666.5	679.7
10°	656.3	651.4	647.0	649.0	647.0	645.1	641.6	641.6	648.0	661.2	677.3
12.5°	656.3	655.3	656.3	662.1	661.6	662.1	657.7	660.2	677.7	700.2	723.1
15°	691.4	683.6	683.6	686.5	685.6	685.6	685.6	695.8	735.8	770.5	794.9
17.5°	734.3	711.4	701.7	700.2	699.7	699.7	701.7	723.6	786.1	822.7	836.8
20°	764.1	720.7	704.6	698.2	698.7	699.7	705.6	735.8	804.6	823.2	819.7
22.5°	769.5	713.4	693.8	684.6	686.0	687.0	695.8	728.0	779.2	782.2	775.3
25°	744.6	692.9	671.9	664.6	666.5	666.0	673.8	697.3	733.9	732.9	729.0
27.5°	707.5	660.2	644.6	639.7	643.1	639.2	641.6	659.7	688.0	687.0	685.6
30°	669.5	628.5	614.3	611.9	616.3	610.4	610.9	626.0	645.5	644.6	644.1
32.5°	631.4	596.7	584.1	584.1	588.5	582.1	583.1	596.3	609.4	605.5	605.5
35°	595.3	570.9	560.6	558.7	562.1	557.7	559.7	571.9	576.7	571.4	568.0
37.5°	563.6	552.8	542.6	535.8	536.2	536.7	542.6	551.9	548.9	541.1	536.7
40°	534.3	534.3	524.5	511.8	510.4	513.8	523.6	533.8	525.5	516.7	511.4
42.5°	513.3	517.7	508.4	495.7	492.8	498.7	509.4	516.7	507.0	497.2	489.9
45°	493.8	504.5	498.2	484.0	480.1	487.0	500.6	503.6	490.4	481.1	475.7
47.5°	480.1	494.8	490.4	476.7	470.9	480.6	494.8	494.3	477.7	467.9	463.5
50°	470.4	488.9	488.4	476.7	470.4	482.6	495.3	488.9	470.9	460.6	456.2
52.5°	462.6	488.4	491.8	485.0	480.6	491.4	499.2	487.0	466.0	455.2	451.8
55°	459.2	490.4	492.8	486.5	482.6	492.3	499.2	490.9	466.0	456.2	453.3
57.5°	460.1	487.9	488.4	479.6	472.8	485.0	495.7	493.3	471.3	460.1	456.7
60°	454.3	474.8	475.7	462.1	454.3	468.9	487.9	486.5	468.9	457.2	450.9
62.5°	434.8	452.8	453.3	440.6	429.4	450.4	471.3	470.9	454.8	443.0	435.7
65°	402.1	421.1	426.0	413.8	405.0	427.4	449.4	448.4	432.3	421.6	414.3
67.5°	361.6	382.1	391.3	383.0	379.6	400.1	420.6	420.1	406.9	396.7	390.4
70°	312.3	329.4	345.0	345.0	342.5	366.0	387.9	386.0	373.8	366.0	361.1
72.5°	271.3	284.5	289.3	294.2	301.5	325.9	344.5	345.9	337.2	333.3	337.2
75°	230.8	239.1	243.5	239.6	252.3	277.6	302.0	304.5	295.2	288.9	290.3
77.5°	189.8	199.1	203.5	194.7	193.7	225.9	255.7	261.0	253.2	243.5	246.4
80°	137.1	149.3	156.6	150.8	148.8	163.0	204.0	209.8	202.5	194.7	199.1
82.5°	83.9	90.8	92.7	98.6	110.8	116.6	131.3	150.8	145.4	138.6	150.8
85°	33.2	39.5	43.9	49.8	58.1	68.8	81.0	96.6	87.8	84.9	100.0
87.5°	2.0	0.5	0.0	1.0	8.3	16.1	34.6	47.8	40.0	42.9	51.7
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°	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4
2.5°	791.9	804.6	821.7	835.8	853.9	871.0	888.5	906.1	915.4	919.3
5°	735.8	759.2	786.6	816.8	851.9	889.0	926.6	965.1	989.5	991.5
7.5°	702.1	735.8	773.4	811.4	854.9	906.1	965.6	1025.2	1050.0	1056.9
10°	712.9	750.4	780.2	815.8	863.7	927.6	997.8	1067.6	1096.4	1104.7
12.5°	755.8	763.1	772.4	805.1	863.7	946.1	1031.0	1114.0	1144.7	1152.5
15°	791.4	756.3	739.7	774.4	851.9	962.2	1066.1	1157.9	1195.0	1202.3
17.5°	794.4	733.9	697.8	729.0	831.4	973.4	1099.8	1206.7	1237.9	1244.7
20°	764.6	710.0	663.1	682.1	803.6	978.3	1124.2	1242.3	1273.0	1279.9
22.5°	730.9	690.4	639.7	638.7	770.0	983.7	1153.5	1276.0	1309.1	1313.5
25°	699.2	663.6	620.7	607.0	730.9	993.9	1193.0	1326.7	1352.1	1353.5
27.5°	662.1	634.8	605.5	592.4	696.8	1013.4	1251.6	1387.2	1402.3	1399.9
30°	628.5	608.0	594.8	590.9	675.3	1028.1	1307.2	1446.7	1447.7	1439.4
32.5°	592.8	585.0	585.0	597.7	657.7	1024.7	1352.6	1504.8	1495.5	1483.3
35°	561.1	562.6	572.8	602.6	628.5	990.5	1396.0	1577.5	1563.8	1546.3
37.5°	530.9	542.1	556.7	585.5	589.9	939.8	1446.7	1680.5	1663.4	1641.4
40°	505.0	522.1	539.2	553.3	548.9	867.6	1517.5	1801.5	1782.4	1757.1
42.5°	484.5	501.1	520.1	521.6	523.1	792.4	1592.6	1949.8	1946.4	1918.6
45°	471.3	482.1	500.1	497.7	521.6	709.5	1661.9	2176.2	2221.1	2200.1
47.5°	462.6	470.9	472.8	483.1	534.3	635.3	1751.2	2619.3	2744.2	2720.3
50°	457.7	466.0	444.0	484.0	536.2	587.5	1874.7	3175.5	3376.5	3344.8
52.5°	457.2	455.2	422.1	494.3	525.5	558.2	1939.1	3581.5	4027.4	4096.2
55°	458.2	433.8	410.8	497.2	504.0	547.5	1723.4	3776.6	4628.1	4773.5
57.5°	449.4	410.4	417.2	485.5	463.5	576.3	1274.0	3706.9	4868.2	5138.5
60°	432.8	387.9	428.9	453.8	422.1	527.0	877.3	3395.6	4619.3	4897.4
62.5°	408.9	372.3	427.4	412.8	406.9	431.3	603.1	2959.8	4224.6	4496.4
65°	382.1	359.6	404.5	373.3	376.7	331.8	426.5	2468.0	3753.2	4020.6
67.5°	353.3	351.8	370.8	332.3	318.1	263.0	310.8	1978.1	3147.7	3388.7
70°	320.6	331.3	337.2	295.2	258.1	206.4	230.8	1383.3	2322.1	2531.9
72.5°	287.9	288.9	297.2	256.7	193.2	165.4	173.2	837.8	1577.5	1730.2
75°	254.7	245.4	253.2	208.8	143.9	135.6	133.7	517.7	1089.6	1210.1
77.5°	219.1	208.8	198.6	157.1	115.6	104.9	102.5	290.3	668.5	742.6
80°	178.1	164.4	148.3	115.2	84.4	75.1	74.7	141.5	333.3	371.3
82.5°	138.6	112.7	108.3	71.7	52.2	45.9	48.8	54.2	100.5	112.2
85°	97.1	82.0	57.6	28.8	23.4	19.0	18.5	16.1	26.8	29.8
87.5°	54.2	35.6	18.5	3.4	3.9	4.4	3.4	2.4	2.4	2.4
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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