

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: P640681

Luminaire Tested: GWS-SA5E-735-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22418.2 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

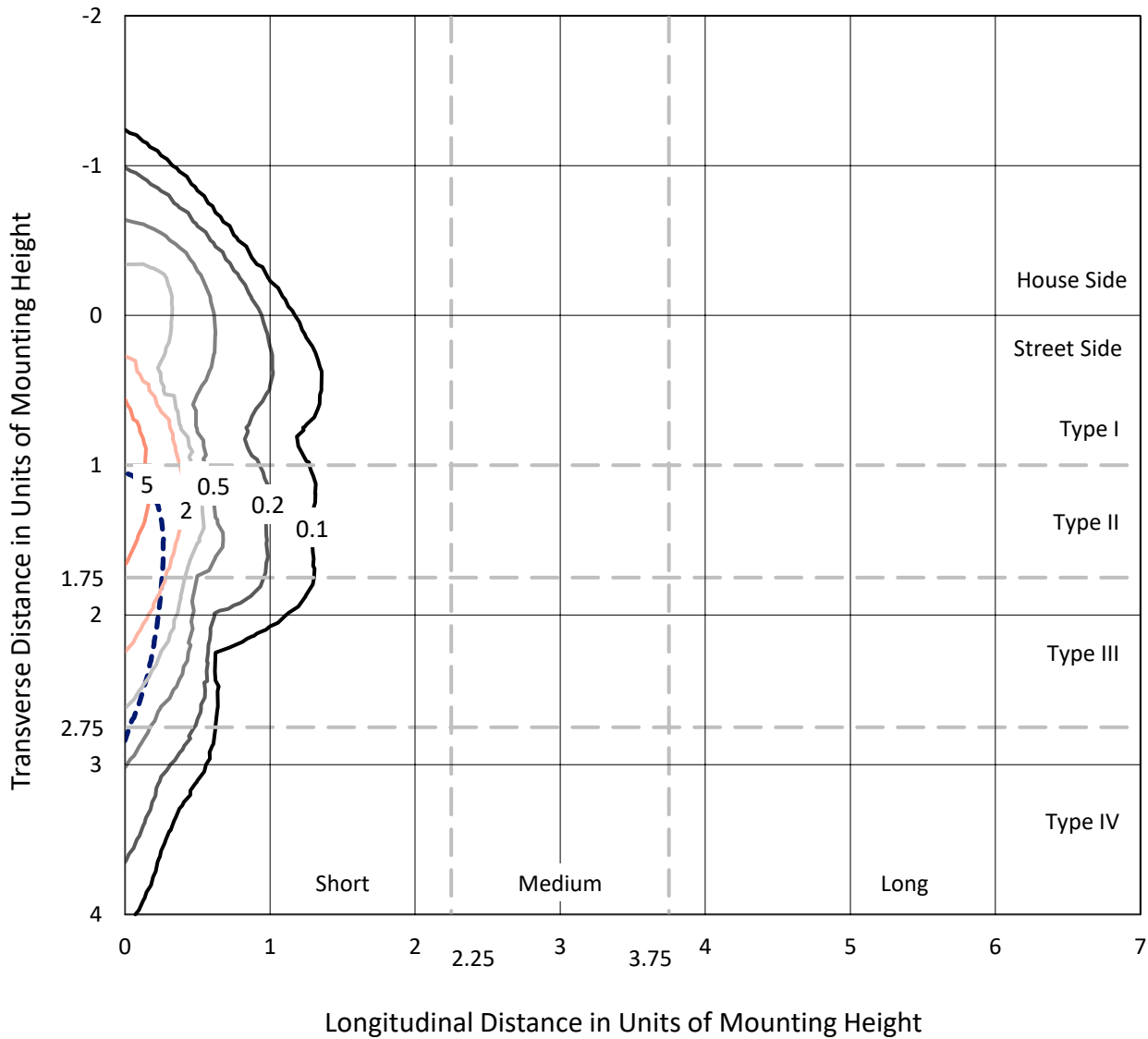
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

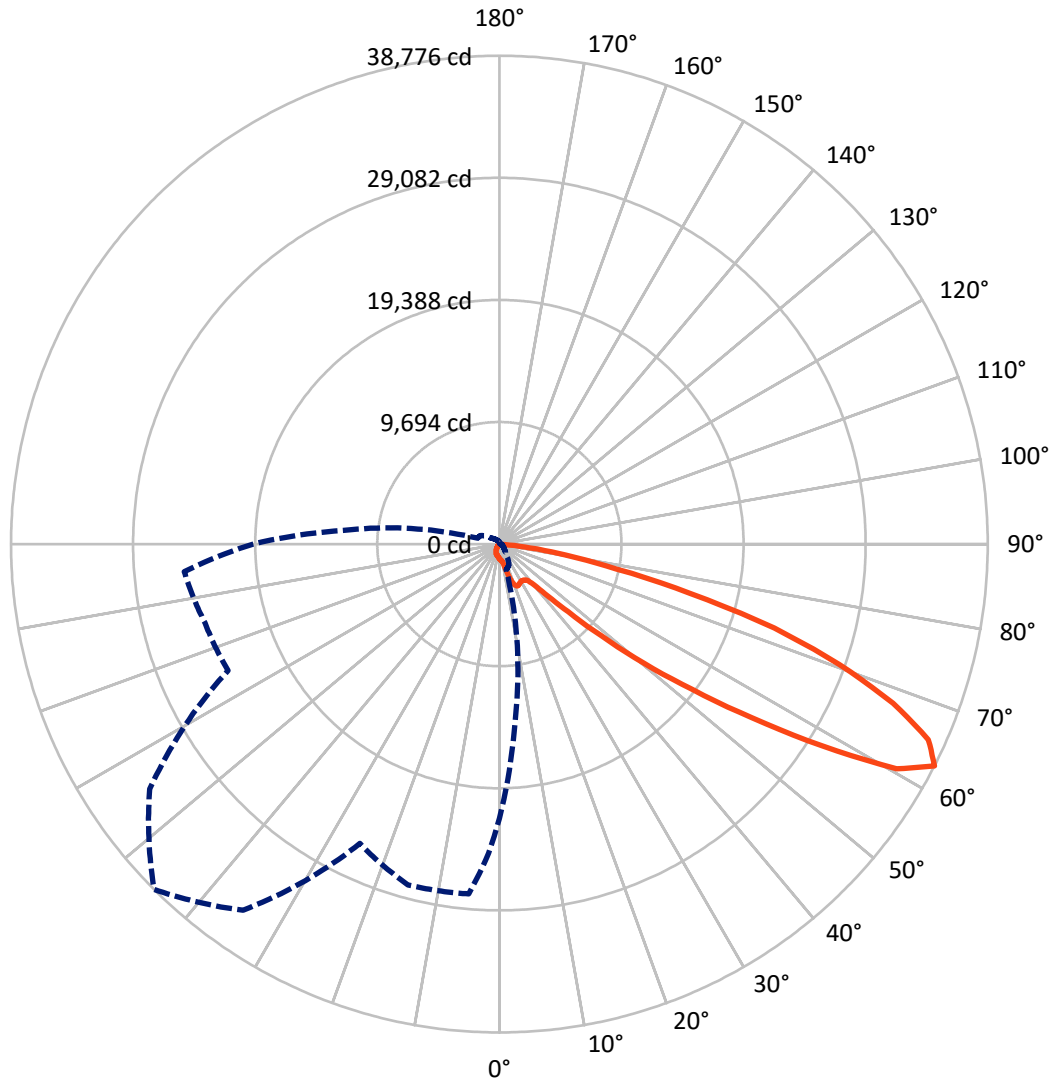
× Max cd
 - - - 1/2 Max cd



Based on 25 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 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2604.7	0.0	2604.7
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	19813.5	0.0	19813.5
	% Fixture	88.4	0.0	88.4
Total	Lumens	22418.2	0.0	22418.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	0.4
10°-20°	344.1	1.5
20°-30°	777.4	3.5
30°-40°	1339.3	6.0
40°-50°	2526.3	11.3
50°-60°	5640.6	25.2
60°-70°	7544.2	33.7
70°-80°	3783.2	16.9
80°-90°	362.6	1.6
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°	22418.2	100.0
0°-180°	22418.2	100.0

Coefficient of Utilization



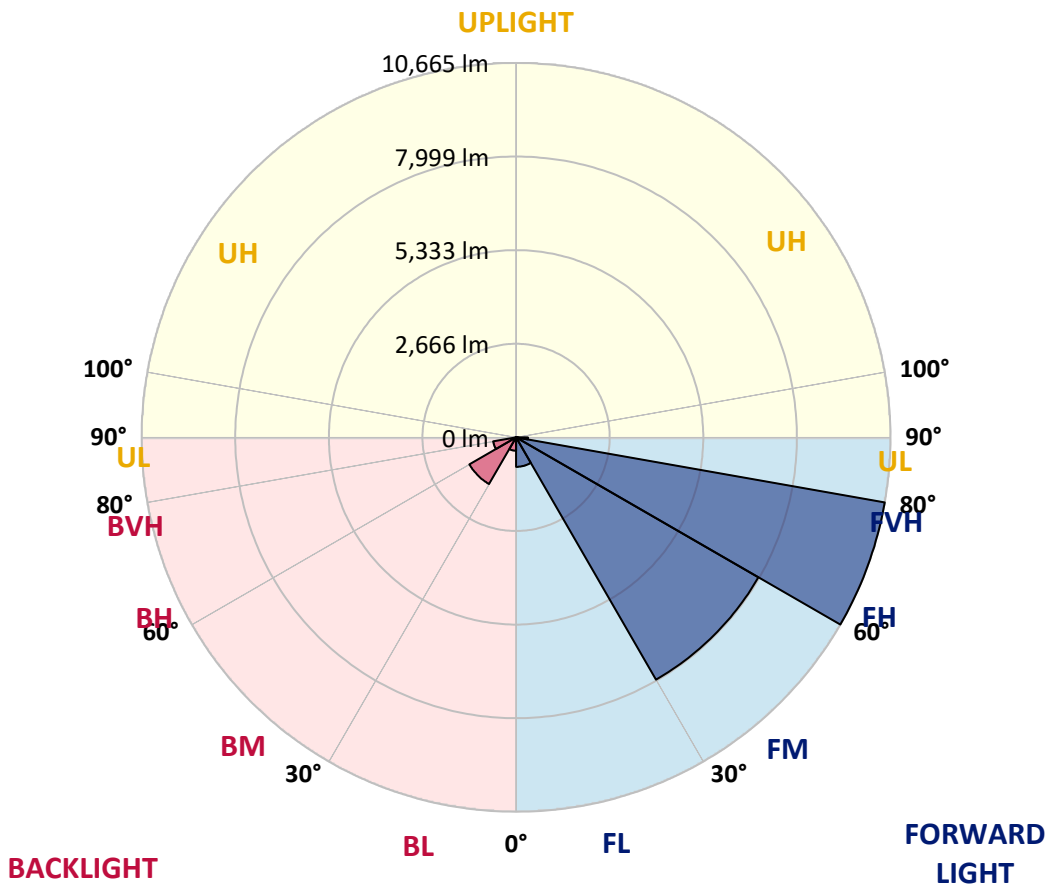
REPORT NUMBER: P640681

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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°)	839.6	3.7			
FM (30°-60°)	7970.3	35.6			
FH (60°-80°)	10665.1	47.6			G4/12000
FVH (80°-90°)	338.5	1.5			G3/500
BL (0°-30°)	382.3	1.7	B1/500		
BM (30°-60°)	1535.9	6.9	B2/2500		
BH (60°-80°)	662.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	24.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6
2.5°	1149.4	1146.7	1141.4	1125.5	1112.2	1104.2	1088.3	1088.3	1085.7	1080.4	1069.7
5°	1112.2	1101.6	1091.0	1061.8	1029.9	1011.3	990.1	987.4	987.4	982.1	979.5
7.5°	1053.8	1043.2	1029.9	982.1	952.9	934.4	915.8	913.1	905.2	905.2	905.2
10°	1022.0	1006.0	984.8	931.7	902.5	886.6	873.3	865.3	860.0	852.1	849.4
12.5°	1091.0	1061.8	1016.6	921.1	881.3	860.0	844.1	838.8	822.9	812.3	804.3
15°	1306.0	1234.3	1144.1	945.0	873.3	841.5	820.2	809.6	796.3	777.7	764.5
17.5°	1659.0	1555.5	1404.2	1022.0	865.3	825.5	799.0	780.4	761.8	740.6	724.7
20°	2147.4	1993.5	1813.0	1162.6	865.3	806.9	775.1	751.2	724.7	700.8	682.2
22.5°	2768.6	2614.6	2306.7	1401.5	876.0	783.1	745.9	714.0	682.2	661.0	639.7
25°	3464.0	3246.4	2959.7	1690.9	905.2	751.2	711.4	679.5	650.3	623.8	599.9
27.5°	4239.1	4002.9	3620.6	2102.3	968.9	719.4	674.2	645.0	618.5	591.9	560.1
30°	4953.2	4812.5	4422.3	2596.0	1072.4	698.1	645.0	618.5	591.9	557.4	528.2
32.5°	5810.5	5561.0	5239.8	3158.8	1210.4	676.9	621.1	584.0	562.7	530.9	499.0
35°	6673.2	6460.9	6038.8	3851.6	1364.4	655.6	591.9	557.4	538.8	501.7	467.2
37.5°	7562.5	7514.7	7097.9	4618.7	1515.7	631.8	557.4	536.2	517.6	475.1	435.3
40°	8438.4	8350.8	7965.9	5494.7	1608.6	605.2	528.2	515.0	493.7	445.9	400.8
42.5°	9277.2	9210.9	8836.6	6333.5	1595.3	581.3	499.0	483.1	467.2	419.4	363.7
45°	10307.1	10198.3	9725.8	6954.6	1459.9	607.9	469.8	443.3	440.6	395.5	326.5
47.5°	12234.3	11875.9	11074.3	7432.4	1324.6	676.9	438.0	406.1	424.7	371.6	289.3
50°	14933.8	14511.8	13351.8	7804.0	1321.9	767.1	432.7	371.6	411.4	353.0	257.5
52.5°	17646.6	16903.4	15493.9	8003.1	1420.1	833.5	480.5	337.1	395.5	334.5	233.6
55°	20245.3	18703.1	16391.1	7344.8	1497.1	905.2	568.0	318.5	366.3	313.2	220.3
57.5°	22721.9	20149.8	16781.3	5810.5	1754.6	934.4	621.1	326.5	323.8	286.7	209.7
60°	23061.7	20080.8	15992.9	3379.1	1935.1	883.9	599.9	363.7	284.0	254.8	191.1
62.5°	21776.9	18745.6	14195.9	2107.6	1797.0	865.3	533.5	414.1	257.5	225.6	167.2
65°	19825.9	16651.2	11836.1	1359.1	1361.7	960.9	467.2	406.1	241.6	199.1	143.3
67.5°	16776.0	13935.8	9325.0	910.5	769.8	820.2	408.8	278.7	236.2	169.9	111.5
70°	12244.9	9919.6	6070.7	607.9	459.2	655.6	342.4	199.1	223.0	140.7	79.6
72.5°	8950.7	6665.3	3389.7	398.2	260.1	382.2	252.2	143.3	172.5	103.5	55.7
75°	6442.3	4586.9	1935.1	254.8	172.5	209.7	164.6	98.2	111.5	82.3	50.4
77.5°	3100.4	2235.0	878.6	140.7	116.8	106.2	87.6	61.1	69.0	74.3	45.1
80°	116.8	87.6	66.4	69.0	74.3	47.8	39.8	31.9	39.8	50.4	23.9
82.5°	0.0	0.0	0.0	8.0	10.6	13.3	15.9	13.3	15.9	18.6	2.7
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°	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6
2.5°	1077.7	1072.4	1077.7	1083.0	1088.3	1093.6	1085.7	1091.0	1096.3	1083.0	1088.3
5°	992.8	990.1	1006.0	1014.0	1024.6	1029.9	1024.6	1024.6	1022.0	1006.0	1006.0
7.5°	918.4	921.1	934.4	952.9	966.2	974.2	968.9	966.2	958.2	934.4	934.4
10°	862.7	862.7	883.9	899.9	918.4	926.4	921.1	913.1	905.2	881.3	878.6
12.5°	817.6	817.6	833.5	860.0	881.3	891.9	889.2	878.6	865.3	841.5	838.8
15°	775.1	772.4	796.3	820.2	849.4	862.7	857.4	849.4	825.5	804.3	799.0
17.5°	732.6	730.0	751.2	783.1	814.9	833.5	830.8	812.3	791.0	764.5	759.2
20°	690.2	684.8	711.4	743.2	775.1	793.7	788.4	772.4	745.9	719.4	714.0
22.5°	647.7	645.0	663.6	690.2	719.4	735.3	732.6	719.4	692.8	668.9	668.9
25°	599.9	599.9	613.2	631.8	653.0	661.0	663.6	658.3	642.4	629.1	629.1
27.5°	560.1	552.1	557.4	562.7	573.4	586.6	586.6	591.9	594.6	589.3	591.9
30°	528.2	515.0	507.0	496.4	491.1	496.4	501.7	520.3	538.8	549.5	554.8
32.5°	491.1	475.1	453.9	424.7	406.1	400.8	416.7	451.3	485.8	509.7	522.9
35°	453.9	432.7	392.9	350.4	326.5	318.5	337.1	376.9	427.4	469.8	488.4
37.5°	416.7	387.5	331.8	281.4	254.8	249.5	268.1	310.6	369.0	427.4	451.3
40°	374.3	339.8	273.4	220.3	199.1	193.8	209.7	252.2	313.2	379.6	416.7
42.5°	331.8	289.3	220.3	175.2	154.0	154.0	175.2	207.0	262.8	334.5	379.6
45°	289.3	244.2	180.5	140.7	127.4	130.1	143.3	175.2	220.3	294.6	337.1
47.5°	249.5	209.7	148.6	116.8	106.2	108.8	124.8	151.3	188.5	254.8	300.0
50°	215.0	177.8	130.1	98.2	90.3	95.6	111.5	135.4	167.2	225.6	262.8
52.5°	193.8	159.3	119.4	84.9	79.6	84.9	100.9	122.1	151.3	199.1	236.2
55°	183.2	156.6	119.4	77.0	69.0	74.3	90.3	111.5	135.4	180.5	212.4
57.5°	180.5	161.9	127.4	69.0	58.4	63.7	79.6	100.9	124.8	164.6	191.1
60°	169.9	154.0	124.8	55.7	45.1	53.1	66.4	87.6	114.1	154.0	177.8
62.5°	148.6	135.4	108.8	45.1	34.5	39.8	55.7	77.0	103.5	140.7	167.2
65°	122.1	108.8	84.9	29.2	21.2	26.5	42.5	66.4	90.3	127.4	151.3
67.5°	90.3	77.0	58.4	18.6	10.6	18.6	34.5	55.7	82.3	114.1	138.0
70°	55.7	45.1	31.9	10.6	8.0	15.9	31.9	53.1	74.3	106.2	130.1
72.5°	31.9	21.2	13.3	5.3	8.0	15.9	31.9	53.1	71.7	100.9	122.1
75°	23.9	13.3	5.3	2.7	5.3	13.3	29.2	47.8	69.0	95.6	116.8
77.5°	15.9	8.0	2.7	0.0	2.7	10.6	26.5	45.1	63.7	90.3	111.5
80°	2.7	0.0	0.0	0.0	0.0	8.0	23.9	39.8	58.4	79.6	98.2
82.5°	0.0	0.0	0.0	0.0	0.0	2.7	18.6	34.5	50.4	66.4	79.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	10.6	26.5	39.8	50.4	55.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	26.5	31.9	37.2
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°	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6
2.5°	1085.7	1101.6	1101.6	1112.2	1125.5	1149.4	1162.6	1181.2	1194.5	1207.8	1213.1
5°	1003.4	1006.0	1008.7	1014.0	1029.9	1056.5	1080.4	1109.6	1144.1	1170.6	1186.5
7.5°	934.4	934.4	934.4	942.3	958.2	976.8	1000.7	1040.5	1080.4	1112.2	1138.8
10°	876.0	883.9	886.6	899.9	918.4	942.3	968.9	1003.4	1048.5	1091.0	1138.8
12.5°	838.8	846.8	860.0	873.3	891.9	918.4	947.6	992.8	1085.7	1173.3	1274.1
15°	804.3	814.9	830.8	849.4	870.7	899.9	931.7	1024.6	1242.3	1406.8	1566.1
17.5°	767.1	783.1	804.3	822.9	849.4	881.3	921.1	1101.6	1529.0	1802.4	2073.1
20°	719.4	740.6	764.5	793.7	825.5	862.7	921.1	1260.9	1943.0	2335.9	2694.2
22.5°	674.2	695.5	724.7	761.8	799.0	836.1	934.4	1502.4	2476.6	2973.0	3426.9
25°	637.1	663.6	692.8	724.7	767.1	809.6	966.2	1842.2	3119.0	3758.7	4079.9
27.5°	602.6	634.4	663.6	690.2	727.3	775.1	1037.9	2296.1	3878.1	4528.5	4780.6
30°	568.0	605.2	634.4	661.0	698.1	748.5	1146.7	2874.7	4722.2	5354.0	5380.5
32.5°	538.8	573.4	607.9	634.4	668.9	727.3	1298.0	3551.6	5587.6	6198.1	5948.6
35°	507.0	546.8	578.7	607.9	645.0	708.7	1473.2	4281.6	6460.9	6973.2	6514.0
37.5°	475.1	520.3	560.1	581.3	618.5	690.2	1600.6	5043.4	7352.8	7729.7	7010.3
40°	445.9	496.4	541.5	562.7	581.3	666.3	1619.2	5823.8	8257.9	8475.6	7477.5
42.5°	414.1	469.8	509.7	538.8	554.8	650.3	1507.7	6482.1	9017.1	9218.8	8088.0
45°	379.6	445.9	477.8	499.0	530.9	661.0	1364.4	6991.8	9885.1	10232.8	9094.1
47.5°	345.1	419.4	445.9	461.9	504.3	724.7	1311.3	7331.5	11315.8	12037.8	10790.3
50°	313.2	395.5	424.7	422.1	499.0	806.9	1369.7	7589.0	13465.9	14315.3	13115.5
52.5°	278.7	369.0	403.5	392.9	538.8	870.7	1486.5	7793.4	15119.6	16985.7	16239.8
55°	249.5	339.8	371.6	369.0	613.2	918.4	1576.7	6715.7	15804.5	19467.6	19759.6
57.5°	228.3	307.9	334.5	379.6	661.0	918.4	1823.6	4767.4	15817.7	21293.8	24431.4
60°	209.7	278.7	297.3	416.7	642.4	870.7	1805.0	2919.9	14578.1	21169.1	26915.9
62.5°	193.8	252.2	276.1	427.4	568.0	862.7	1629.8	1810.3	12433.3	19557.8	25113.6
65°	180.5	230.9	265.4	392.9	515.0	923.7	1098.9	1300.7	10084.2	17721.0	23045.8
67.5°	167.2	212.4	281.4	321.2	467.2	825.5	793.7	923.7	7915.5	15706.3	21147.8
70°	156.6	201.7	297.3	262.8	408.8	645.0	562.7	700.8	6060.1	13104.9	18474.8
72.5°	148.6	188.5	249.5	207.0	331.8	499.0	392.9	509.7	3960.4	10230.2	15061.2
75°	140.7	172.5	183.2	167.2	246.9	326.5	297.3	342.4	2359.8	7477.5	11427.3
77.5°	138.0	161.9	148.6	135.4	167.2	193.8	225.6	230.9	1152.0	3740.1	5988.4
80°	122.1	146.0	127.4	111.5	114.1	127.4	167.2	154.0	262.8	950.3	1598.0
82.5°	95.6	114.1	106.2	92.9	92.9	92.9	111.5	103.5	84.9	427.4	722.0
85°	66.4	79.6	79.6	74.3	71.7	71.7	69.0	66.4	23.9	26.5	39.8
87.5°	45.1	55.7	58.4	55.7	47.8	42.5	37.2	31.9	10.6	0.0	5.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6	1162.6
2.5°	1231.7	1239.6	1239.6	1229.0	1221.0	1199.8	1178.6	1157.3	1152.0	1149.4
5°	1231.7	1263.5	1279.4	1276.8	1258.2	1223.7	1178.6	1130.8	1117.5	1112.2
7.5°	1213.1	1274.1	1321.9	1329.9	1295.4	1234.3	1152.0	1080.4	1061.8	1053.8
10°	1255.5	1375.0	1470.6	1483.8	1444.0	1324.6	1191.8	1069.7	1040.5	1022.0
12.5°	1483.8	1680.3	1797.0	1852.8	1775.8	1624.5	1404.2	1186.5	1120.2	1091.0
15°	1945.7	2224.4	2447.4	2447.4	2375.7	2107.6	1828.9	1475.9	1385.6	1306.0
17.5°	2537.6	2888.0	3084.4	3063.2	2954.4	2765.9	2431.5	1924.5	1741.3	1659.0
20°	3211.9	3421.6	3466.7	3453.4	3405.6	3296.8	3065.9	2521.7	2274.8	2147.4
22.5°	3795.8	3740.1	3673.7	3620.6	3607.4	3639.2	3607.4	3188.0	2994.2	2768.6
25°	4191.3	3875.5	3676.4	3580.8	3626.0	3809.1	4008.2	3851.6	3697.6	3464.0
27.5°	4406.4	3859.5	3572.9	3474.6	3551.6	3811.8	4244.4	4509.9	4350.6	4239.1
30°	4523.1	3846.3	3506.5	3410.9	3527.7	3854.2	4409.0	5125.7	5131.0	4953.2
32.5°	4690.4	3931.2	3519.8	3432.2	3588.8	3981.6	4616.1	5752.1	5906.1	5810.5
35°	4878.8	4061.3	3580.8	3501.2	3695.0	4151.5	4847.0	6383.9	6705.1	6673.2
37.5°	5056.7	4207.3	3724.2	3647.2	3856.9	4297.5	5070.0	7005.0	7451.0	7562.5
40°	5242.5	4411.7	4164.8	4239.1	4355.9	4528.5	5269.0	7543.9	8271.2	8438.4
42.5°	5680.5	5120.4	5497.3	5638.0	5653.9	5298.2	5704.4	8234.0	9078.1	9277.2
45°	6657.3	6381.2	7461.6	7660.7	7557.2	6479.5	6752.9	9229.5	10206.3	10307.1
47.5°	7891.6	8019.0	10150.5	10838.0	10216.9	7873.0	8024.3	11323.8	12271.4	12234.3
50°	9330.3	9932.9	13203.1	14825.0	13338.5	9683.4	9489.6	13898.6	15048.0	14933.8
52.5°	11031.8	12157.3	16871.6	19175.6	17768.8	11719.3	11639.7	17309.5	18010.3	17646.6
55°	13173.9	14304.7	21092.1	24311.9	22310.5	14203.9	14477.3	21264.6	21400.0	20245.3
57.5°	16369.9	17105.1	26066.5	30202.1	27051.3	17580.3	19563.1	26528.4	24909.2	22721.9
60°	22172.4	20707.2	30873.7	36227.7	32094.7	22329.1	26270.9	29647.3	26077.1	23061.7
62.5°	24192.5	23765.1	33883.8	38775.9	35487.1	26228.4	28014.8	27879.5	24564.1	21776.9
65°	21131.9	23003.3	33344.9	37430.1	35051.7	25586.0	25140.1	25928.5	22859.9	19825.9
67.5°	19520.7	21214.2	31303.7	33716.6	32638.9	23406.8	22408.7	22193.7	19191.5	16776.0
70°	17896.2	19573.8	28344.0	28643.9	28142.3	19855.1	18543.8	17102.5	14344.5	12244.9
72.5°	15942.5	16866.2	24237.6	22814.8	22246.8	15594.8	15318.7	12879.3	10753.1	8950.7
75°	13903.9	13635.8	18896.9	15658.5	16083.2	12133.4	12937.7	9457.7	7878.3	6442.3
77.5°	10113.4	9914.3	12656.3	9510.8	10532.8	7947.4	7140.4	3774.6	3594.1	3100.4
80°	5643.3	6803.3	6835.2	5330.1	6649.3	5181.4	1786.4	124.8	79.6	116.8
82.5°	2622.6	2925.2	3705.6	2471.3	3793.2	2566.8	369.0	0.0	0.0	0.0
85°	849.4	1242.3	1040.5	363.7	918.4	868.0	61.1	0.0	0.0	0.0
87.5°	50.4	103.5	26.5	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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