

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: P631771

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631771
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-SA2B-735-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4121.2 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

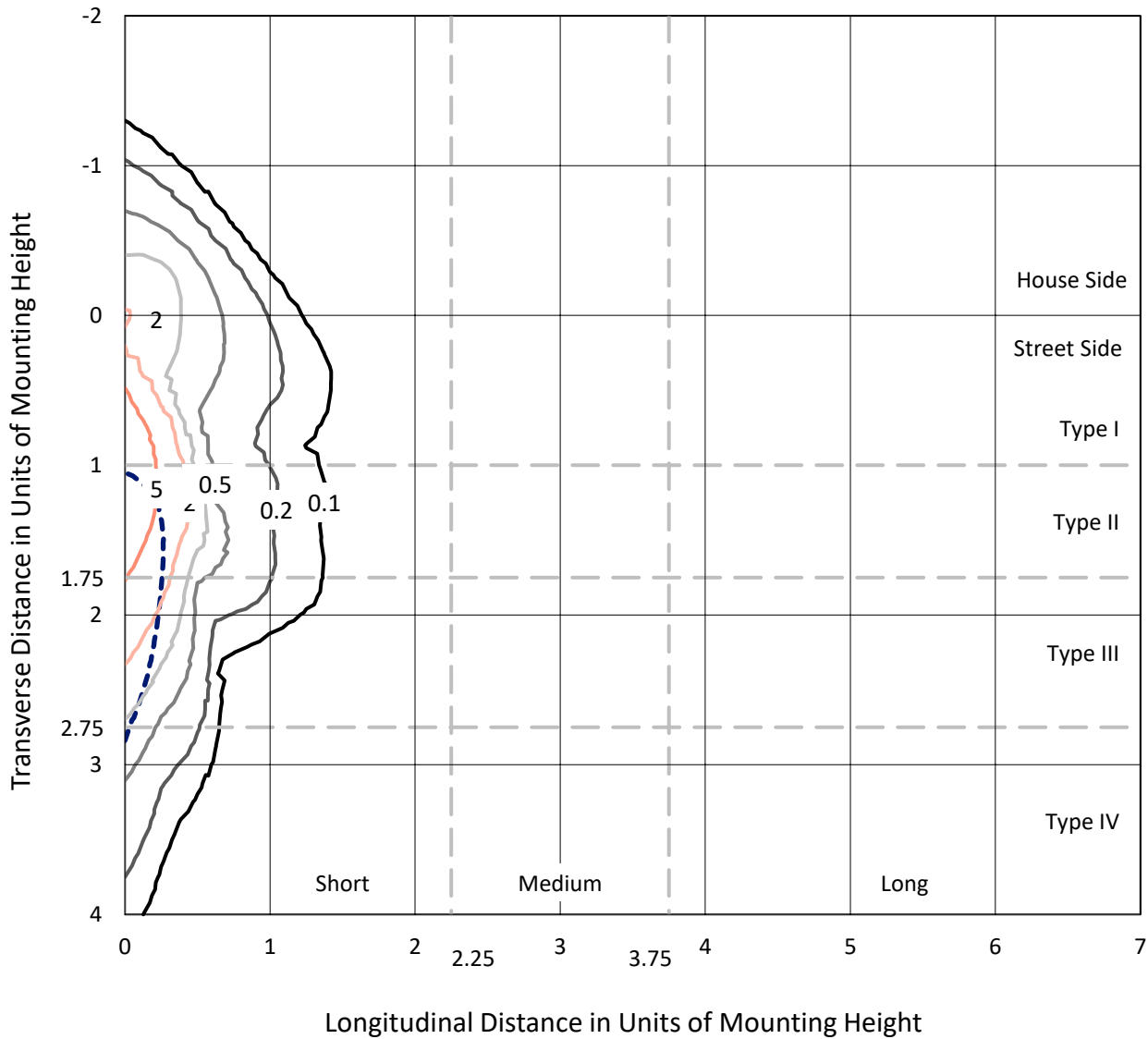
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

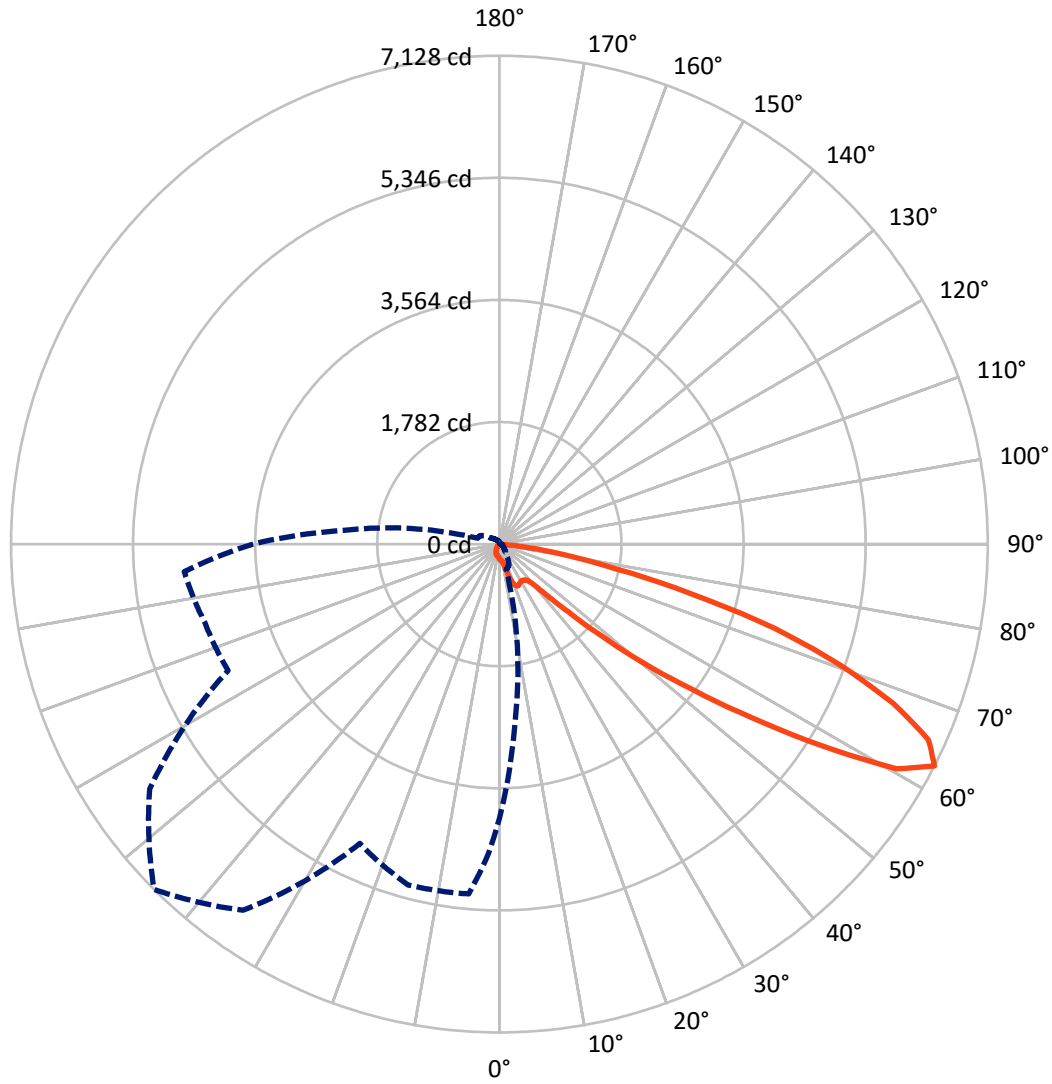
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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	478.8	0.0	478.8
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	3642.4	0.0	3642.4
	% Fixture	88.4	0.0	88.4
Total	Lumens	4121.2	0.0	4121.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	0.4
10°-20°	63.3	1.5
20°-30°	142.9	3.5
30°-40°	246.2	6.0
40°-50°	464.4	11.3
50°-60°	1036.9	25.2
60°-70°	1386.9	33.7
70°-80°	695.5	16.9
80°-90°	66.7	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°	4121.2	100.0
0°-180°	4121.2	100.0

Coefficient of Utilization



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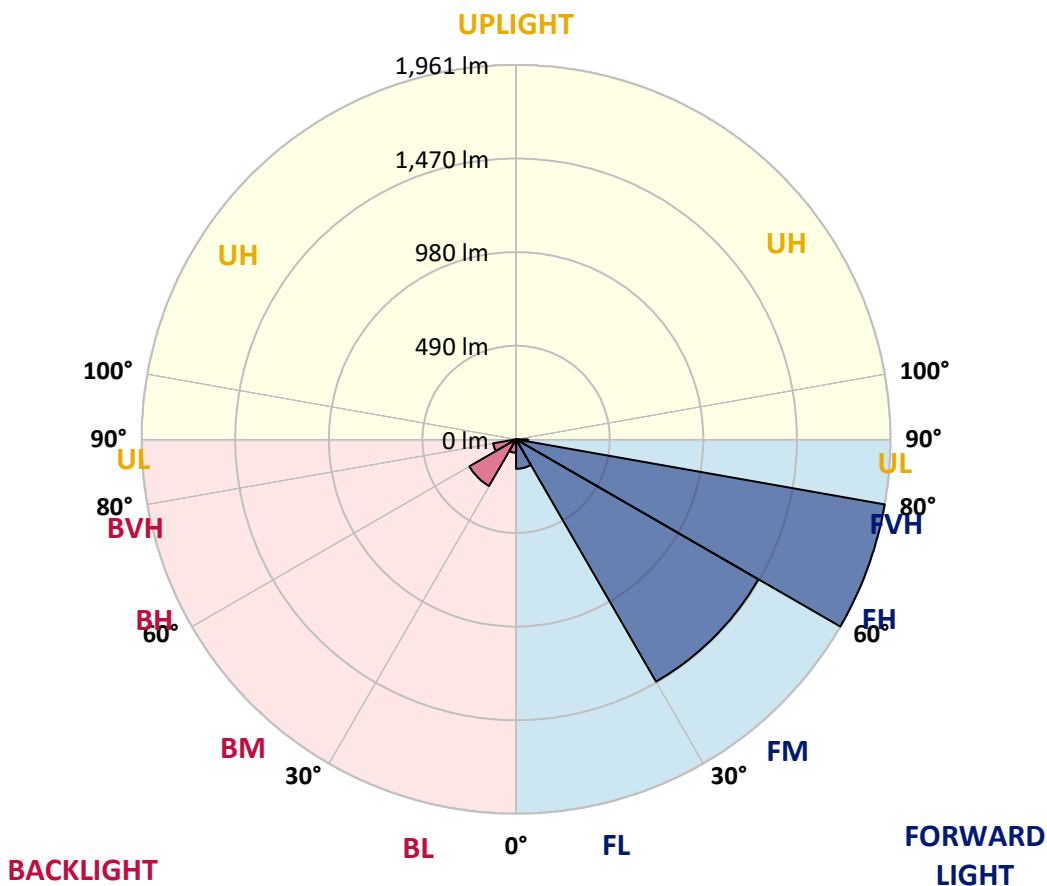
CATALOG NUMBER: GWS-SA2B-735-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.3	3.7			
FM (30°-60°)	1465.2	35.6			
FH (60°-80°)	1960.6	47.6			G2/5000
FVH (80°-90°)	62.2	1.5			G1/100
BL (0°-30°)	70.3	1.7	B0/110		
BM (30°-60°)	282.3	6.9	B1/1000		
BH (60°-80°)	121.8	3.0	B1/500		G1/500
BVH (80°-90°)	4.4	0.1			G0/10
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°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7
2.5°	211.3	210.8	209.8	206.9	204.5	203.0	200.1	200.1	199.6	198.6	196.7
5°	204.5	202.5	200.6	195.2	189.3	185.9	182.0	181.5	181.5	180.5	180.1
7.5°	193.7	191.8	189.3	180.5	175.2	171.8	168.4	167.9	166.4	166.4	166.4
10°	187.9	184.9	181.0	171.3	165.9	163.0	160.5	159.1	158.1	156.6	156.2
12.5°	200.6	195.2	186.9	169.3	162.0	158.1	155.2	154.2	151.3	149.3	147.9
15°	240.1	226.9	210.3	173.7	160.5	154.7	150.8	148.8	146.4	143.0	140.5
17.5°	305.0	286.0	258.1	187.9	159.1	151.8	146.9	143.5	140.0	136.1	133.2
20°	394.8	366.5	333.3	213.7	159.1	148.3	142.5	138.1	133.2	128.8	125.4
22.5°	509.0	480.7	424.0	257.6	161.0	144.0	137.1	131.3	125.4	121.5	117.6
25°	636.8	596.8	544.1	310.8	166.4	138.1	130.8	124.9	119.6	114.7	110.3
27.5°	779.3	735.9	665.6	386.5	178.1	132.2	123.9	118.6	113.7	108.8	103.0
30°	910.6	884.7	813.0	477.2	197.1	128.3	118.6	113.7	108.8	102.5	97.1
32.5°	1068.2	1022.3	963.3	580.7	222.5	124.4	114.2	107.4	103.4	97.6	91.7
35°	1226.8	1187.7	1110.1	708.0	250.8	120.5	108.8	102.5	99.1	92.2	85.9
37.5°	1390.2	1381.4	1304.8	849.1	278.6	116.1	102.5	98.6	95.2	87.3	80.0
40°	1551.3	1535.2	1464.4	1010.1	295.7	111.3	97.1	94.7	90.8	82.0	73.7
42.5°	1705.5	1693.3	1624.5	1164.3	293.3	106.9	91.7	88.8	85.9	77.1	66.9
45°	1894.8	1874.8	1787.9	1278.5	268.4	111.7	86.4	81.5	81.0	72.7	60.0
47.5°	2249.1	2183.2	2035.8	1366.3	243.5	124.4	80.5	74.7	78.1	68.3	53.2
50°	2745.3	2667.7	2454.5	1434.6	243.0	141.0	79.5	68.3	75.6	64.9	47.3
52.5°	3244.0	3107.4	2848.3	1471.2	261.1	153.2	88.3	62.0	72.7	61.5	42.9
55°	3721.8	3438.2	3013.2	1350.2	275.2	166.4	104.4	58.6	67.3	57.6	40.5
57.5°	4177.0	3704.2	3085.0	1068.2	322.5	171.8	114.2	60.0	59.5	52.7	38.5
60°	4239.5	3691.5	2940.0	621.2	355.7	162.5	110.3	66.9	52.2	46.8	35.1
62.5°	4003.3	3446.1	2609.7	387.4	330.4	159.1	98.1	76.1	47.3	41.5	30.7
65°	3644.7	3061.0	2175.9	249.8	250.3	176.6	85.9	74.7	44.4	36.6	26.4
67.5°	3084.0	2561.8	1714.2	167.4	141.5	150.8	75.1	51.2	43.4	31.2	20.5
70°	2251.0	1823.5	1116.0	111.7	84.4	120.5	62.9	36.6	41.0	25.9	14.6
72.5°	1645.4	1225.3	623.1	73.2	47.8	70.3	46.4	26.4	31.7	19.0	10.2
75°	1184.3	843.2	355.7	46.8	31.7	38.5	30.3	18.1	20.5	15.1	9.3
77.5°	570.0	410.9	161.5	25.9	21.5	19.5	16.1	11.2	12.7	13.7	8.3
80°	21.5	16.1	12.2	12.7	13.7	8.8	7.3	5.9	7.3	9.3	4.4
82.5°	0.0	0.0	0.0	1.5	2.0	2.4	2.9	2.4	2.9	3.4	0.5
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°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7
2.5°	198.1	197.1	198.1	199.1	200.1	201.0	199.6	200.6	201.5	199.1	200.1
5°	182.5	182.0	184.9	186.4	188.4	189.3	188.4	188.4	187.9	184.9	184.9
7.5°	168.8	169.3	171.8	175.2	177.6	179.1	178.1	177.6	176.2	171.8	171.8
10°	158.6	158.6	162.5	165.4	168.8	170.3	169.3	167.9	166.4	162.0	161.5
12.5°	150.3	150.3	153.2	158.1	162.0	164.0	163.5	161.5	159.1	154.7	154.2
15°	142.5	142.0	146.4	150.8	156.2	158.6	157.6	156.2	151.8	147.9	146.9
17.5°	134.7	134.2	138.1	144.0	149.8	153.2	152.7	149.3	145.4	140.5	139.6
20°	126.9	125.9	130.8	136.6	142.5	145.9	144.9	142.0	137.1	132.2	131.3
22.5°	119.1	118.6	122.0	126.9	132.2	135.2	134.7	132.2	127.4	123.0	123.0
25°	110.3	110.3	112.7	116.1	120.0	121.5	122.0	121.0	118.1	115.6	115.6
27.5°	103.0	101.5	102.5	103.4	105.4	107.8	107.8	108.8	109.3	108.3	108.8
30°	97.1	94.7	93.2	91.3	90.3	91.3	92.2	95.6	99.1	101.0	102.0
32.5°	90.3	87.3	83.4	78.1	74.7	73.7	76.6	83.0	89.3	93.7	96.1
35°	83.4	79.5	72.2	64.4	60.0	58.6	62.0	69.3	78.6	86.4	89.8
37.5°	76.6	71.2	61.0	51.7	46.8	45.9	49.3	57.1	67.8	78.6	83.0
40°	68.8	62.5	50.3	40.5	36.6	35.6	38.5	46.4	57.6	69.8	76.6
42.5°	61.0	53.2	40.5	32.2	28.3	28.3	32.2	38.1	48.3	61.5	69.8
45°	53.2	44.9	33.2	25.9	23.4	23.9	26.4	32.2	40.5	54.2	62.0
47.5°	45.9	38.5	27.3	21.5	19.5	20.0	22.9	27.8	34.6	46.8	55.1
50°	39.5	32.7	23.9	18.1	16.6	17.6	20.5	24.9	30.7	41.5	48.3
52.5°	35.6	29.3	22.0	15.6	14.6	15.6	18.5	22.4	27.8	36.6	43.4
55°	33.7	28.8	22.0	14.2	12.7	13.7	16.6	20.5	24.9	33.2	39.0
57.5°	33.2	29.8	23.4	12.7	10.7	11.7	14.6	18.5	22.9	30.3	35.1
60°	31.2	28.3	22.9	10.2	8.3	9.8	12.2	16.1	21.0	28.3	32.7
62.5°	27.3	24.9	20.0	8.3	6.3	7.3	10.2	14.2	19.0	25.9	30.7
65°	22.4	20.0	15.6	5.4	3.9	4.9	7.8	12.2	16.6	23.4	27.8
67.5°	16.6	14.2	10.7	3.4	2.0	3.4	6.3	10.2	15.1	21.0	25.4
70°	10.2	8.3	5.9	2.0	1.5	2.9	5.9	9.8	13.7	19.5	23.9
72.5°	5.9	3.9	2.4	1.0	1.5	2.9	5.9	9.8	13.2	18.5	22.4
75°	4.4	2.4	1.0	0.5	1.0	2.4	5.4	8.8	12.7	17.6	21.5
77.5°	2.9	1.5	0.5	0.0	0.5	2.0	4.9	8.3	11.7	16.6	20.5
80°	0.5	0.0	0.0	0.0	0.0	1.5	4.4	7.3	10.7	14.6	18.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	3.4	6.3	9.3	12.2	14.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.9	7.3	9.3	10.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.9	5.9	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°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7
2.5°	199.6	202.5	202.5	204.5	206.9	211.3	213.7	217.1	219.6	222.0	223.0
5°	184.5	184.9	185.4	186.4	189.3	194.2	198.6	204.0	210.3	215.2	218.1
7.5°	171.8	171.8	171.8	173.2	176.2	179.6	184.0	191.3	198.6	204.5	209.3
10°	161.0	162.5	163.0	165.4	168.8	173.2	178.1	184.5	192.7	200.6	209.3
12.5°	154.2	155.7	158.1	160.5	164.0	168.8	174.2	182.5	199.6	215.7	234.2
15°	147.9	149.8	152.7	156.2	160.1	165.4	171.3	188.4	228.4	258.6	287.9
17.5°	141.0	144.0	147.9	151.3	156.2	162.0	169.3	202.5	281.1	331.3	381.1
20°	132.2	136.1	140.5	145.9	151.8	158.6	169.3	231.8	357.2	429.4	495.3
22.5°	123.9	127.8	133.2	140.0	146.9	153.7	171.8	276.2	455.3	546.5	630.0
25°	117.1	122.0	127.4	133.2	141.0	148.8	177.6	338.7	573.4	691.0	750.0
27.5°	110.8	116.6	122.0	126.9	133.7	142.5	190.8	422.1	712.9	832.5	878.8
30°	104.4	111.3	116.6	121.5	128.3	137.6	210.8	528.5	868.1	984.2	989.1
32.5°	99.1	105.4	111.7	116.6	123.0	133.7	238.6	652.9	1027.2	1139.4	1093.5
35°	93.2	100.5	106.4	111.7	118.6	130.3	270.8	787.1	1187.7	1281.9	1197.5
37.5°	87.3	95.6	103.0	106.9	113.7	126.9	294.2	927.1	1351.7	1421.0	1288.7
40°	82.0	91.3	99.5	103.4	106.9	122.5	297.7	1070.6	1518.1	1558.1	1374.6
42.5°	76.1	86.4	93.7	99.1	102.0	119.6	277.2	1191.6	1657.6	1694.7	1486.8
45°	69.8	82.0	87.8	91.7	97.6	121.5	250.8	1285.3	1817.2	1881.1	1671.8
47.5°	63.4	77.1	82.0	84.9	92.7	133.2	241.1	1347.8	2080.2	2212.9	1983.6
50°	57.6	72.7	78.1	77.6	91.7	148.3	251.8	1395.1	2475.5	2631.6	2411.1
52.5°	51.2	67.8	74.2	72.2	99.1	160.1	273.3	1432.7	2779.5	3122.5	2985.4
55°	45.9	62.5	68.3	67.8	112.7	168.8	289.9	1234.6	2905.4	3578.8	3632.5
57.5°	42.0	56.6	61.5	69.8	121.5	168.8	335.2	876.4	2907.8	3914.5	4491.3
60°	38.5	51.2	54.7	76.6	118.1	160.1	331.8	536.8	2679.9	3891.6	4948.0
62.5°	35.6	46.4	50.7	78.6	104.4	158.6	299.6	332.8	2285.7	3595.4	4616.7
65°	33.2	42.5	48.8	72.2	94.7	169.8	202.0	239.1	1853.8	3257.7	4236.6
67.5°	30.7	39.0	51.7	59.0	85.9	151.8	145.9	169.8	1455.1	2887.3	3887.7
70°	28.8	37.1	54.7	48.3	75.1	118.6	103.4	128.8	1114.0	2409.1	3396.3
72.5°	27.3	34.6	45.9	38.1	61.0	91.7	72.2	93.7	728.1	1880.6	2768.7
75°	25.9	31.7	33.7	30.7	45.4	60.0	54.7	62.9	433.8	1374.6	2100.7
77.5°	25.4	29.8	27.3	24.9	30.7	35.6	41.5	42.5	211.8	687.6	1100.9
80°	22.4	26.8	23.4	20.5	21.0	23.4	30.7	28.3	48.3	174.7	293.8
82.5°	17.6	21.0	19.5	17.1	17.1	17.1	20.5	19.0	15.6	78.6	132.7
85°	12.2	14.6	14.6	13.7	13.2	13.2	12.7	12.2	4.4	4.9	7.3
87.5°	8.3	10.2	10.7	10.2	8.8	7.8	6.8	5.9	2.0	0.0	1.0
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°	358°	360°
0°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7
2.5°	226.4	227.9	227.9	225.9	224.5	220.6	216.7	212.8	211.8	211.3
5°	226.4	232.3	235.2	234.7	231.3	225.0	216.7	207.9	205.4	204.5
7.5°	223.0	234.2	243.0	244.5	238.1	226.9	211.8	198.6	195.2	193.7
10°	230.8	252.8	270.3	272.8	265.5	243.5	219.1	196.7	191.3	187.9
12.5°	272.8	308.9	330.4	340.6	326.5	298.6	258.1	218.1	205.9	200.6
15°	357.7	408.9	449.9	449.9	436.7	387.4	336.2	271.3	254.7	240.1
17.5°	466.5	530.9	567.0	563.1	543.1	508.5	447.0	353.8	320.1	305.0
20°	590.4	629.0	637.3	634.9	626.1	606.1	563.6	463.6	418.2	394.8
22.5°	697.8	687.6	675.4	665.6	663.2	669.0	663.2	586.1	550.4	509.0
25°	770.5	712.4	675.8	658.3	666.6	700.2	736.8	708.0	679.7	636.8
27.5°	810.0	709.5	656.8	638.8	652.9	700.7	780.3	829.1	799.8	779.3
30°	831.5	707.1	644.6	627.0	648.5	708.5	810.5	942.3	943.2	910.6
32.5°	862.2	722.7	647.0	630.9	659.7	732.0	848.6	1057.4	1085.7	1068.2
35°	896.9	746.6	658.3	643.6	679.3	763.2	891.0	1173.6	1232.6	1226.8
37.5°	929.6	773.4	684.6	670.5	709.0	790.0	932.0	1287.8	1369.7	1390.2
40°	963.7	811.0	765.6	779.3	800.8	832.5	968.6	1386.8	1520.5	1551.3
42.5°	1044.3	941.3	1010.6	1036.5	1039.4	974.0	1048.6	1513.7	1668.9	1705.5
45°	1223.8	1173.1	1371.7	1408.3	1389.3	1191.1	1241.4	1696.7	1876.2	1894.8
47.5°	1450.7	1474.2	1866.0	1992.4	1878.2	1447.3	1475.1	2081.7	2255.9	2249.1
50°	1715.2	1826.0	2427.2	2725.3	2452.1	1780.1	1744.5	2555.0	2766.3	2745.3
52.5°	2028.0	2234.9	3101.5	3525.1	3266.5	2154.4	2139.8	3182.1	3310.9	3244.0
55°	2421.8	2629.7	3877.4	4469.3	4101.4	2611.1	2661.4	3909.1	3934.0	3721.8
57.5°	3009.3	3144.5	4791.9	5552.1	4972.9	3231.8	3596.3	4876.8	4579.1	4177.0
60°	4076.0	3806.7	5675.6	6659.8	5900.1	4104.8	4829.5	5450.1	4793.8	4239.5
62.5°	4447.4	4368.8	6229.0	7128.3	6523.7	4821.6	5150.0	5125.2	4515.7	4003.3
65°	3884.7	4228.8	6129.9	6880.9	6443.7	4703.6	4621.6	4766.5	4202.4	3644.7
67.5°	3588.5	3899.9	5754.6	6198.2	6000.1	4302.9	4119.5	4079.9	3528.0	3084.0
70°	3289.9	3598.3	5210.6	5265.7	5173.5	3650.0	3409.0	3144.0	2637.0	2251.0
72.5°	2930.8	3100.6	4455.7	4194.1	4089.7	2866.8	2816.1	2367.6	1976.8	1645.4
75°	2556.0	2506.7	3473.9	2878.5	2956.6	2230.5	2378.4	1738.6	1448.3	1184.3
77.5°	1859.2	1822.6	2326.6	1748.4	1936.3	1461.0	1312.6	693.9	660.7	570.0
80°	1037.4	1250.7	1256.5	979.8	1222.4	952.5	328.4	22.9	14.6	21.5
82.5°	482.1	537.7	681.2	454.3	697.3	471.9	67.8	0.0	0.0	0.0
85°	156.2	228.4	191.3	66.9	168.8	159.6	11.2	0.0	0.0	0.0
87.5°	9.3	19.0	4.9	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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