

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: P632765

Luminaire Tested: GWS-SA2D-735-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632765  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-735-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

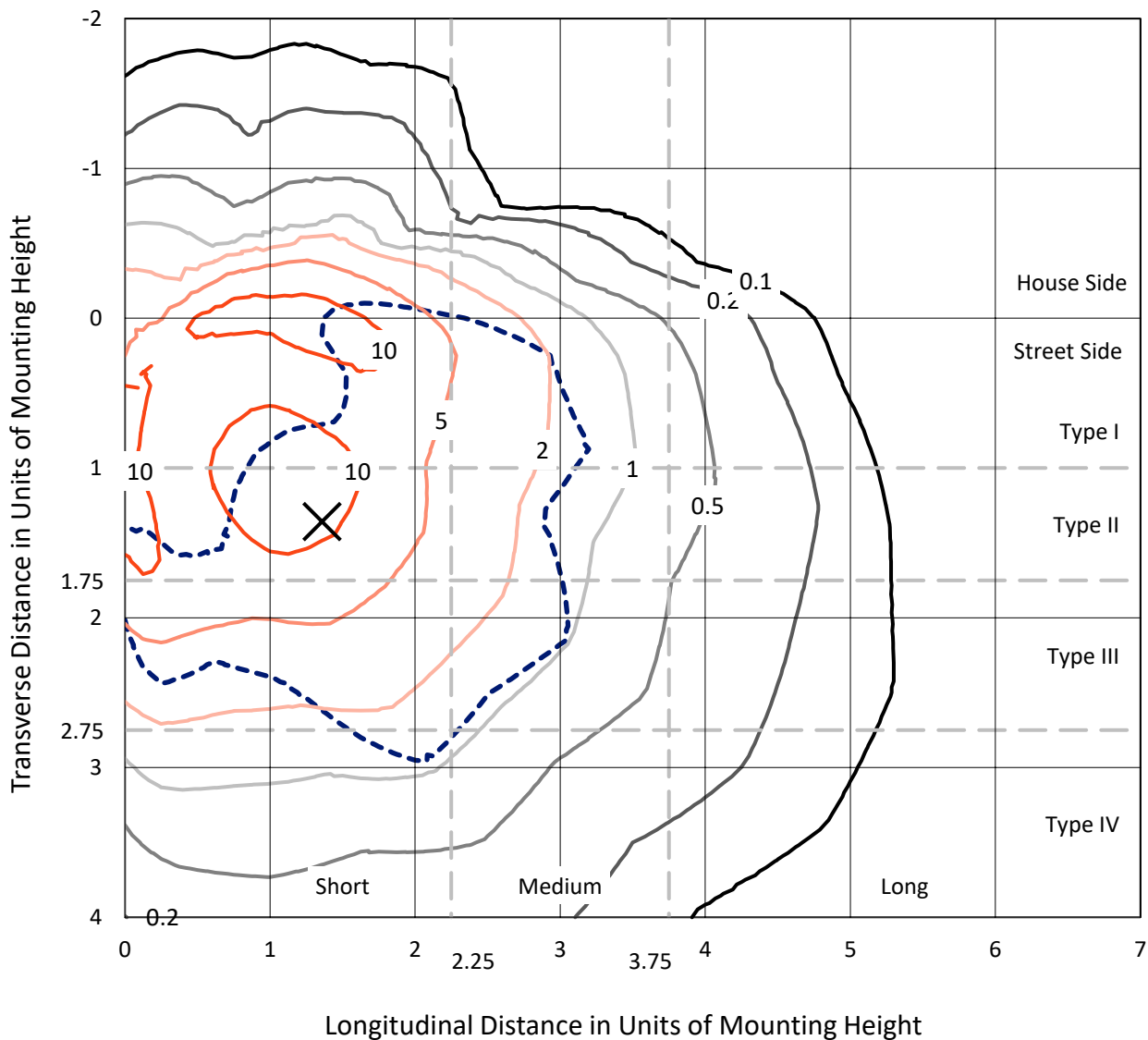
Lumens per Lamp: N/A  
Luminaire Lumens: 7146.8 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

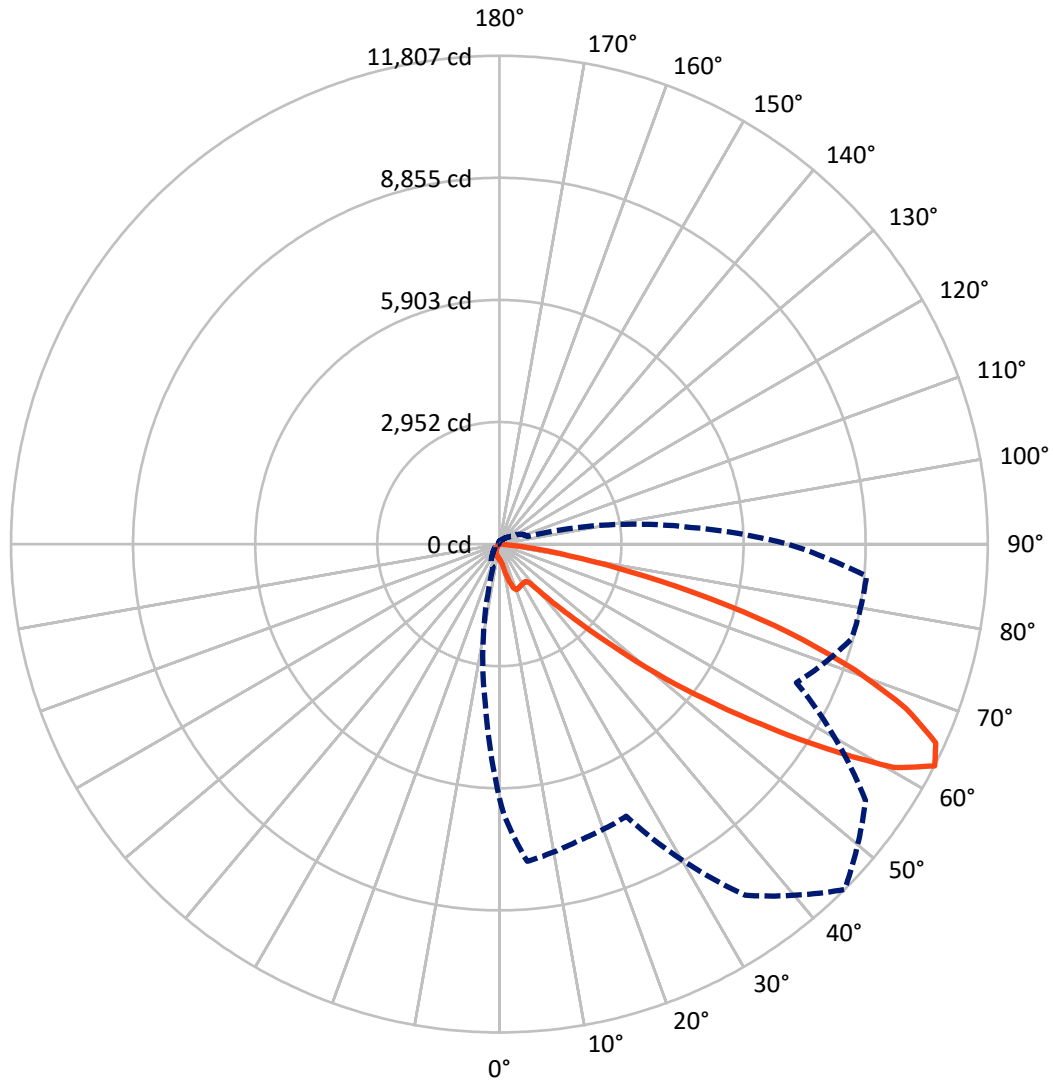
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc  
 Type IV - 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
<b>House Side</b>	Lumens	881.9	0.0	881.9
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	6264.9	0.0	6264.9
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	7146.8	0.0	7146.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.0	0.5
10°-20°	124.6	1.7
20°-30°	270.9	3.8
30°-40°	444.6	6.2
40°-50°	817.3	11.4
50°-60°	1755.1	24.6
60°-70°	2357.4	33.0
70°-80°	1227.5	17.2
80°-90°	116.4	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°	7146.8	100.0
0°-180°	7146.8	100.0

**Coefficient of Utilization**

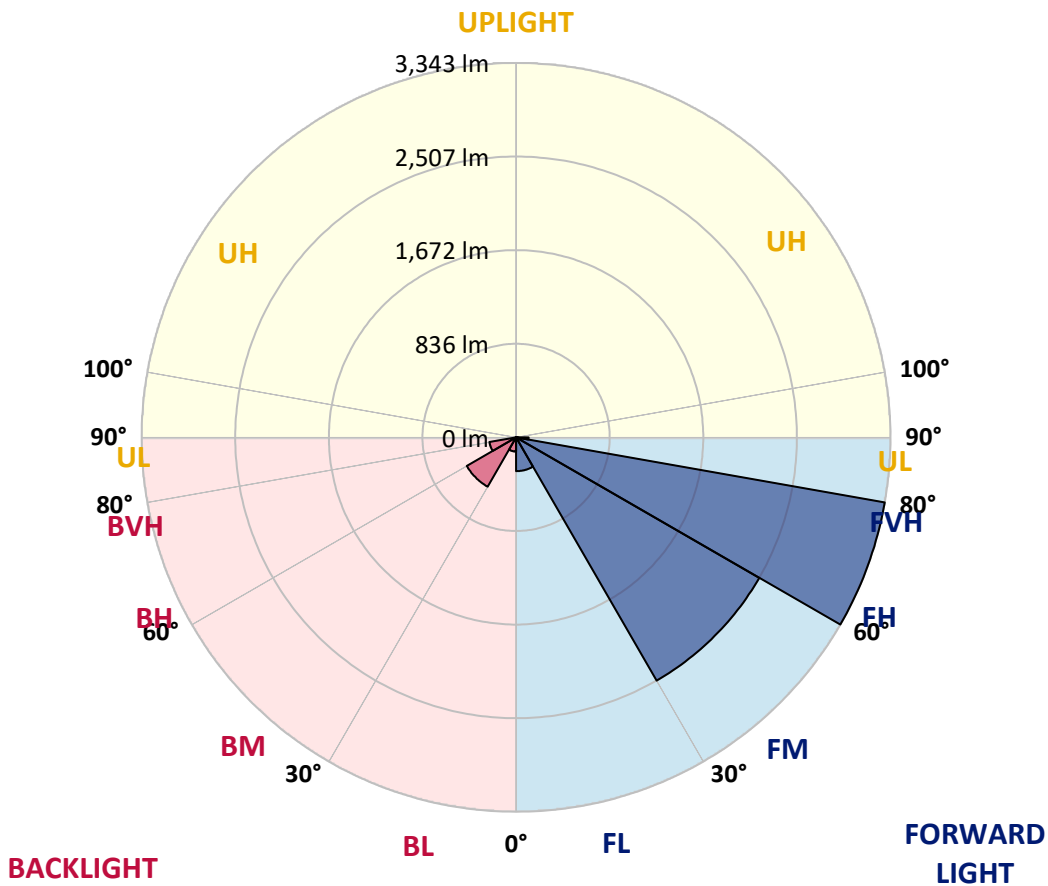


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	301.9	4.2			
FM (30°-60°)	2508.4	35.1			
FH (60°-80°)	3343.3	46.8			G2/5000
FVH (80°-90°)	111.2	1.6			G2/225
BL (0°-30°)	126.5	1.8	B1/500		
BM (30°-60°)	508.6	7.1	B1/1000		
BH (60°-80°)	241.6	3.4	B1/500		G1/500
BVH (80°-90°)	5.2	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5
2.5°	378.9	380.6	382.2	388.0	392.1	395.4	396.2	393.8	388.0	382.2	374.0
5°	367.4	369.0	374.8	390.5	406.2	418.5	422.7	420.2	406.2	388.0	369.0
7.5°	366.5	369.8	383.9	416.9	450.7	476.3	482.9	477.2	450.7	414.4	375.6
10°	396.2	402.0	422.7	482.1	544.0	589.4	607.6	582.8	540.7	474.7	411.1
12.5°	473.8	483.8	523.4	610.1	705.8	766.1	790.8	760.3	694.3	598.5	497.8
15°	596.0	610.9	670.3	799.9	913.0	966.7	974.9	957.6	880.8	775.2	639.8
17.5°	768.6	790.0	882.5	1014.6	1096.3	1115.3	1112.8	1094.6	1038.5	965.9	837.9
20°	974.9	1000.5	1091.3	1200.3	1208.6	1186.3	1173.9	1163.2	1144.2	1131.8	1031.9
22.5°	1183.0	1214.3	1309.3	1336.5	1262.2	1197.8	1167.3	1175.5	1203.6	1264.7	1224.2
25°	1390.2	1419.9	1509.1	1435.6	1287.0	1179.7	1140.9	1160.7	1227.5	1359.6	1411.6
27.5°	1632.1	1654.3	1707.2	1503.3	1291.1	1164.8	1126.8	1157.4	1239.1	1419.1	1617.2
30°	1883.8	1897.0	1871.5	1521.4	1277.1	1142.5	1112.8	1157.4	1258.9	1458.7	1771.6
32.5°	2068.8	2071.2	1987.9	1523.1	1269.6	1124.4	1099.6	1152.4	1277.9	1491.7	1921.0
35°	2259.4	2247.1	2099.3	1547.9	1289.5	1131.0	1109.5	1166.5	1307.6	1530.5	2052.2
37.5°	2452.6	2430.3	2224.0	1588.3	1340.6	1202.8	1189.6	1238.3	1355.5	1584.2	2196.7
40°	2650.7	2620.2	2353.6	1649.4	1454.6	1447.1	1492.5	1486.8	1486.8	1652.7	2345.3
42.5°	2892.6	2857.1	2545.1	1821.9	1720.4	1886.3	2010.1	1933.4	1791.4	1810.4	2538.5
45°	3212.1	3181.6	2876.9	2152.1	2137.3	2518.7	2685.4	2533.5	2180.2	2174.4	2861.3
47.5°	3723.1	3717.3	3406.1	2535.2	2647.4	3323.5	3645.5	3353.3	2623.5	2559.9	3472.1
50°	4441.3	4424.0	4065.7	2984.3	3254.2	4320.8	4895.3	4408.3	3159.3	3009.8	4290.2
52.5°	5250.3	5268.5	4989.4	3474.6	3898.9	5430.3	6230.2	5616.8	3741.3	3581.9	5319.7
55°	6012.3	6116.3	6042.8	4048.4	4528.8	6655.3	7696.3	6942.6	4461.9	4330.7	6473.7
57.5°	6608.3	6901.3	7416.5	4882.1	5269.3	8088.4	9333.3	8379.9	5303.1	5546.7	8044.7
60°	6641.3	7029.3	8225.5	6626.4	6221.9	9317.6	10967.9	9784.1	6625.6	7611.3	9275.5
62.5°	6143.5	6559.6	7698.8	7418.9	7259.6	10363.6	11806.6	10807.7	7926.6	8820.7	8910.7
65°	5573.9	5994.1	7111.0	6520.0	7139.1	10319.0	11593.6	10831.6	8044.7	7998.5	8257.7
67.5°	4712.9	5090.2	6101.4	5771.2	6580.2	9821.2	10609.6	10148.9	7411.5	7480.9	7596.4
70°	3439.9	3803.2	4741.8	4758.3	5746.4	8923.9	9116.2	9052.7	6825.4	6898.9	6568.7
72.5°	2484.8	2791.1	3600.9	3902.2	4587.4	7483.3	7350.4	7595.6	5856.2	6144.3	5275.9
75°	1786.4	2015.9	2641.7	3394.5	3636.4	5557.4	5261.9	5882.7	4698.9	5290.8	3966.6
77.5°	724.8	805.7	1039.3	2286.7	2389.9	3738.8	3221.2	4272.9	3350.0	3476.3	1922.6
80°	29.7	33.0	42.9	1180.5	1638.7	2103.4	1723.7	2284.2	2212.4	1400.1	454.0
82.5°	3.3	3.3	7.4	340.1	717.4	1160.7	812.3	1315.9	1120.2	593.5	206.4
85°	0.8	0.8	1.7	38.8	168.4	185.7	109.8	403.7	520.9	242.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	7.4	8.3	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°	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5
2.5°	374.0	369.8	364.9	359.9	357.5	350.8	348.4	346.7	345.1	345.9	345.9
5°	361.6	352.5	341.8	331.0	325.3	318.7	315.3	313.7	314.5	317.8	317.8
7.5°	359.9	342.6	319.5	305.4	298.8	293.9	290.6	288.9	289.8	293.9	295.5
10°	387.2	356.6	315.3	291.4	284.0	279.0	275.7	273.2	271.6	274.9	275.7
12.5°	445.8	403.7	335.2	289.8	276.5	269.9	267.5	262.5	260.0	261.7	262.5
15°	567.1	494.5	374.8	296.4	269.9	262.5	258.4	254.3	250.1	249.3	250.1
17.5°	725.6	621.6	435.0	312.0	265.0	255.9	250.1	244.4	238.6	237.7	236.9
20°	922.1	777.6	519.3	336.8	260.9	250.1	241.9	233.6	226.2	223.7	223.7
22.5°	1101.2	965.9	627.4	367.4	255.1	241.9	232.0	222.1	213.8	209.7	208.9
25°	1320.0	1165.6	757.0	402.9	246.8	231.1	220.4	210.5	202.3	197.3	195.6
27.5°	1540.4	1376.1	903.9	449.1	236.9	220.4	210.5	201.4	192.3	186.6	184.9
30°	1754.2	1603.2	1069.0	506.9	229.5	209.7	201.4	192.3	184.1	175.0	172.5
32.5°	1983.7	1835.1	1254.0	571.3	223.7	202.3	193.2	184.9	174.2	165.9	161.8
35°	2205.0	2074.5	1457.9	634.0	217.9	195.6	185.7	177.5	165.9	156.8	151.1
37.5°	2427.9	2318.1	1670.9	672.0	209.7	186.6	177.5	170.9	157.7	146.9	140.3
40°	2664.0	2569.8	1901.2	656.3	202.3	176.7	171.7	164.3	149.4	137.0	128.8
42.5°	2923.2	2810.1	2135.6	596.0	195.6	168.4	163.5	156.0	142.0	127.1	116.4
45°	3249.2	3073.4	2328.0	505.2	199.0	160.2	150.2	148.6	135.4	116.4	103.2
47.5°	3809.8	3477.9	2477.4	446.6	221.2	151.1	139.5	143.6	129.6	105.7	90.8
50°	4667.5	4148.2	2616.9	442.5	255.1	146.9	129.6	140.3	123.8	94.9	80.1
52.5°	5484.8	4829.3	2706.1	478.8	284.8	157.7	119.7	136.2	119.7	87.5	72.6
55°	6266.5	5222.2	2546.7	505.2	312.9	189.9	112.3	129.6	114.7	83.4	70.2
57.5°	7109.4	5397.2	2005.2	558.9	332.7	217.1	113.9	119.7	108.1	80.9	69.3
60°	7361.2	5173.5	1210.2	629.0	322.0	225.4	126.3	106.5	99.1	75.9	66.9
62.5°	6969.9	4642.7	714.1	572.9	312.9	213.0	144.5	98.2	90.0	69.3	61.9
65°	6384.6	3922.0	465.6	483.8	331.9	189.9	153.5	94.1	81.7	62.7	54.5
67.5°	5715.9	3159.3	326.1	285.6	306.3	170.9	129.6	93.3	73.5	52.8	44.6
70°	4814.4	2365.9	229.5	189.0	255.1	151.9	100.7	90.8	64.4	42.9	34.7
72.5°	3719.8	1481.0	170.9	122.2	181.6	123.8	80.1	76.8	52.0	35.5	26.4
75°	2743.2	844.5	120.5	88.3	119.7	94.1	59.4	54.5	44.6	33.8	23.9
77.5°	1432.3	422.7	75.1	67.7	68.5	58.6	42.9	39.6	41.3	33.8	22.3
80°	274.9	84.2	45.4	49.5	37.1	37.1	31.4	33.0	36.3	27.2	19.0
82.5°	114.7	18.2	24.8	28.1	23.1	25.6	25.6	26.4	25.6	19.8	14.0
85°	0.0	0.0	10.7	11.6	15.7	15.7	13.2	13.2	13.2	11.6	8.3
87.5°	0.0	0.0	0.0	0.0	0.8	2.5	5.0	5.8	6.6	5.0	3.3
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5
2.5°	345.1	343.4	345.9	347.5	349.2	349.2	347.5	345.9	343.4	345.9	343.4
5°	318.7	321.1	325.3	326.9	328.6	325.3	323.6	318.7	314.5	315.3	313.7
7.5°	298.0	300.5	305.4	308.7	308.7	307.1	302.1	297.2	290.6	290.6	289.8
10°	279.0	282.3	288.1	292.2	293.9	292.2	287.3	280.7	274.9	274.9	272.4
12.5°	263.3	267.5	274.1	279.9	281.5	279.9	274.9	268.3	261.7	261.7	260.0
15°	250.1	255.1	262.5	269.1	271.6	269.1	263.3	255.1	248.5	249.3	246.8
17.5°	237.7	241.9	251.8	259.2	261.7	259.2	251.8	241.1	234.4	236.1	234.4
20°	223.7	228.7	238.6	246.8	249.3	246.8	238.6	227.0	220.4	220.4	221.2
22.5°	208.9	213.8	223.7	229.5	232.8	230.3	222.1	211.3	204.7	204.7	205.6
25°	195.6	198.1	205.6	211.3	212.2	209.7	203.1	194.8	189.9	192.3	193.2
27.5°	183.3	183.3	186.6	189.9	189.0	186.6	184.1	177.5	176.7	179.1	181.6
30°	170.1	165.9	164.3	161.8	161.0	160.2	162.6	162.6	164.3	167.6	170.1
32.5°	158.5	150.2	142.8	135.4	131.3	134.6	141.2	146.9	152.7	157.7	160.2
35°	145.3	132.1	119.7	109.8	103.2	108.1	118.9	129.6	139.5	146.1	150.2
37.5°	132.1	113.1	98.2	85.9	80.9	85.0	96.6	111.4	126.3	134.6	140.3
40°	118.0	94.1	76.8	66.9	61.9	66.0	77.6	92.5	112.3	123.0	130.4
42.5°	104.0	77.6	61.9	52.0	49.5	52.0	61.1	75.9	97.4	110.6	120.5
45°	90.0	64.4	49.5	42.1	39.6	42.1	49.5	61.9	83.4	98.2	109.8
47.5°	77.6	54.5	41.3	34.7	33.0	35.5	41.3	52.0	70.2	85.0	98.2
50°	67.7	47.9	35.5	29.7	28.1	30.5	35.5	43.8	59.4	72.6	86.7
52.5°	61.1	44.6	31.4	25.6	24.8	26.4	30.5	37.1	50.4	61.9	75.1
55°	59.4	44.6	28.9	23.1	22.3	23.9	27.2	32.2	43.8	53.7	65.2
57.5°	61.1	47.9	27.2	19.8	19.0	20.6	23.9	28.1	38.0	46.2	57.0
60°	61.1	48.7	23.9	15.7	14.9	16.5	19.8	24.8	33.8	40.5	49.5
62.5°	55.3	44.6	19.8	12.4	10.7	12.4	16.5	20.6	29.7	36.3	43.8
65°	47.9	38.0	16.5	9.1	7.4	9.1	13.2	17.3	25.6	31.4	39.6
67.5°	38.8	28.9	12.4	6.6	5.0	6.6	9.9	14.0	21.5	27.2	35.5
70°	28.9	20.6	9.9	5.8	5.0	5.8	9.1	13.2	19.0	24.8	33.0
72.5°	21.5	14.0	8.3	5.8	4.1	5.8	8.3	12.4	18.2	23.9	31.4
75°	18.2	11.6	7.4	5.0	4.1	5.0	7.4	11.6	16.5	22.3	29.7
77.5°	17.3	10.7	6.6	4.1	3.3	4.1	6.6	9.9	14.9	20.6	28.9
80°	14.9	9.1	5.8	3.3	2.5	3.3	5.8	8.3	11.6	15.7	22.3
82.5°	11.6	7.4	4.1	1.7	0.8	1.7	4.1	5.0	7.4	9.1	13.2
85°	7.4	4.1	1.7	0.0	0.0	0.0	1.7	3.3	3.3	4.1	6.6
87.5°	3.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7	2.5
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°	359°	360°
0°	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5
2.5°	348.4	349.2	350.8	353.3	359.1	364.1	369.0	375.6	378.9	378.9
5°	315.3	316.2	317.0	320.3	328.6	335.2	345.9	359.1	365.7	367.4
7.5°	289.8	291.4	293.1	295.5	303.8	312.9	326.9	351.7	364.1	366.5
10°	274.9	277.4	280.7	285.6	293.1	303.0	326.9	371.5	392.1	396.2
12.5°	263.3	267.5	270.8	276.5	285.6	301.3	349.2	427.6	463.9	473.8
15°	251.8	256.7	261.7	267.5	277.4	307.1	392.1	528.3	588.6	596.0
17.5°	240.2	246.0	252.6	259.2	271.6	321.1	459.8	667.8	752.0	768.6
20°	227.0	234.4	243.5	251.8	265.8	343.4	553.9	833.8	939.4	974.9
22.5°	213.0	222.1	232.8	243.5	259.2	370.7	667.8	1012.1	1159.9	1183.0
25°	201.4	210.5	220.4	231.1	248.5	403.7	805.7	1233.3	1367.9	1390.2
27.5°	190.7	199.8	208.9	218.8	237.7	446.6	971.6	1468.6	1608.9	1632.1
30°	179.1	189.9	199.0	208.9	227.8	499.4	1163.2	1729.5	1862.4	1883.8
32.5°	169.2	180.0	189.0	199.0	220.4	557.2	1364.6	1960.6	2068.8	2068.8
35°	161.0	172.5	179.1	192.3	214.6	594.4	1555.3	2181.0	2262.8	2259.4
37.5°	151.9	165.9	170.9	180.0	207.2	598.5	1734.4	2413.8	2474.1	2452.6
40°	142.8	157.7	165.1	170.1	199.0	564.7	1930.9	2627.6	2678.8	2650.7
42.5°	134.6	146.1	156.8	162.6	194.0	505.2	2088.6	2856.3	2917.4	2892.6
45°	126.3	136.2	142.8	153.5	197.3	463.9	2224.0	3122.9	3230.3	3212.1
47.5°	118.0	126.3	130.4	146.9	219.6	445.0	2306.5	3535.7	3738.0	3723.1
50°	109.0	118.9	118.9	145.3	252.6	451.6	2378.3	4133.4	4446.3	4441.3
52.5°	99.9	110.6	109.0	157.7	278.2	482.1	2460.0	4660.9	5204.9	5250.3
55°	90.8	100.7	102.4	182.4	293.1	508.5	2143.9	4883.0	5852.9	6012.3
57.5°	80.9	86.7	106.5	201.4	288.1	585.3	1468.6	4923.4	6266.5	6608.3
60°	70.2	75.1	120.5	197.3	272.4	540.7	924.6	4560.2	6207.9	6641.3
62.5°	61.1	69.3	127.1	174.2	277.4	468.9	589.4	3886.5	5649.0	6143.5
65°	53.7	66.9	115.6	157.7	280.7	317.8	397.9	3161.7	5103.4	5573.9
67.5°	47.9	74.3	94.9	140.3	241.1	223.7	273.2	2456.7	4291.1	4712.9
70°	43.8	75.9	77.6	120.5	186.6	143.6	180.0	1653.5	2957.8	3439.9
72.5°	39.6	56.1	58.6	96.6	120.5	87.5	116.4	946.0	2156.3	2484.8
75°	38.0	38.0	40.5	62.7	66.9	63.6	75.1	564.7	1546.2	1786.4
77.5°	35.5	28.9	25.6	40.5	36.3	45.4	44.6	251.0	670.3	724.8
80°	28.1	20.6	17.3	25.6	24.8	30.5	26.4	20.6	30.5	29.7
82.5°	17.3	13.2	12.4	15.7	14.0	15.7	12.4	3.3	3.3	3.3
85°	8.3	7.4	6.6	6.6	7.4	6.6	5.0	1.7	0.8	0.8
87.5°	4.1	4.1	3.3	2.5	3.3	3.3	2.5	0.8	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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