

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: P633256

Luminaire Tested: GWS-SA2E-735-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633256  
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-SA2E-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**

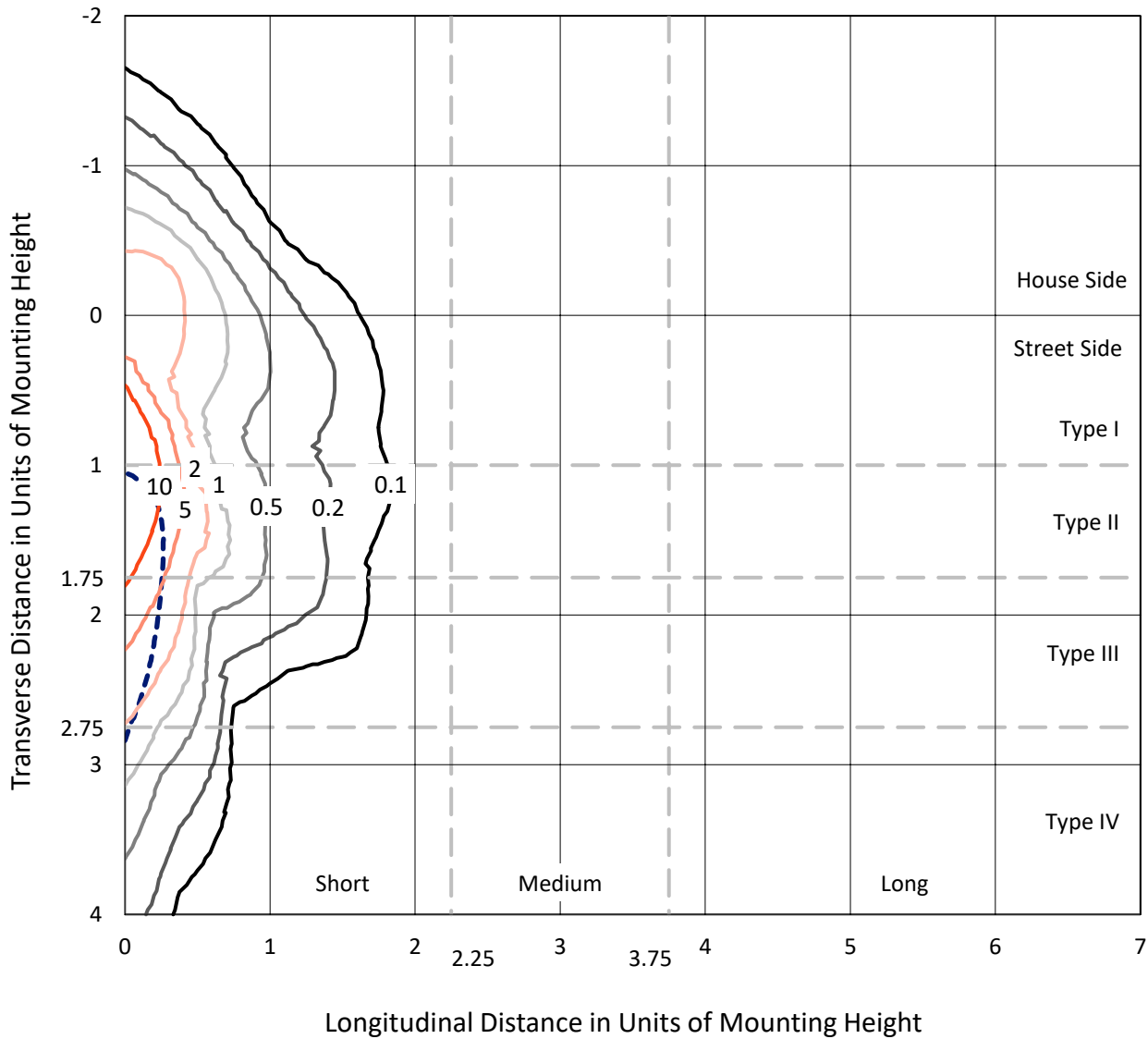
Lumens per Lamp: N/A  
Luminaire Lumens: 8713.4 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

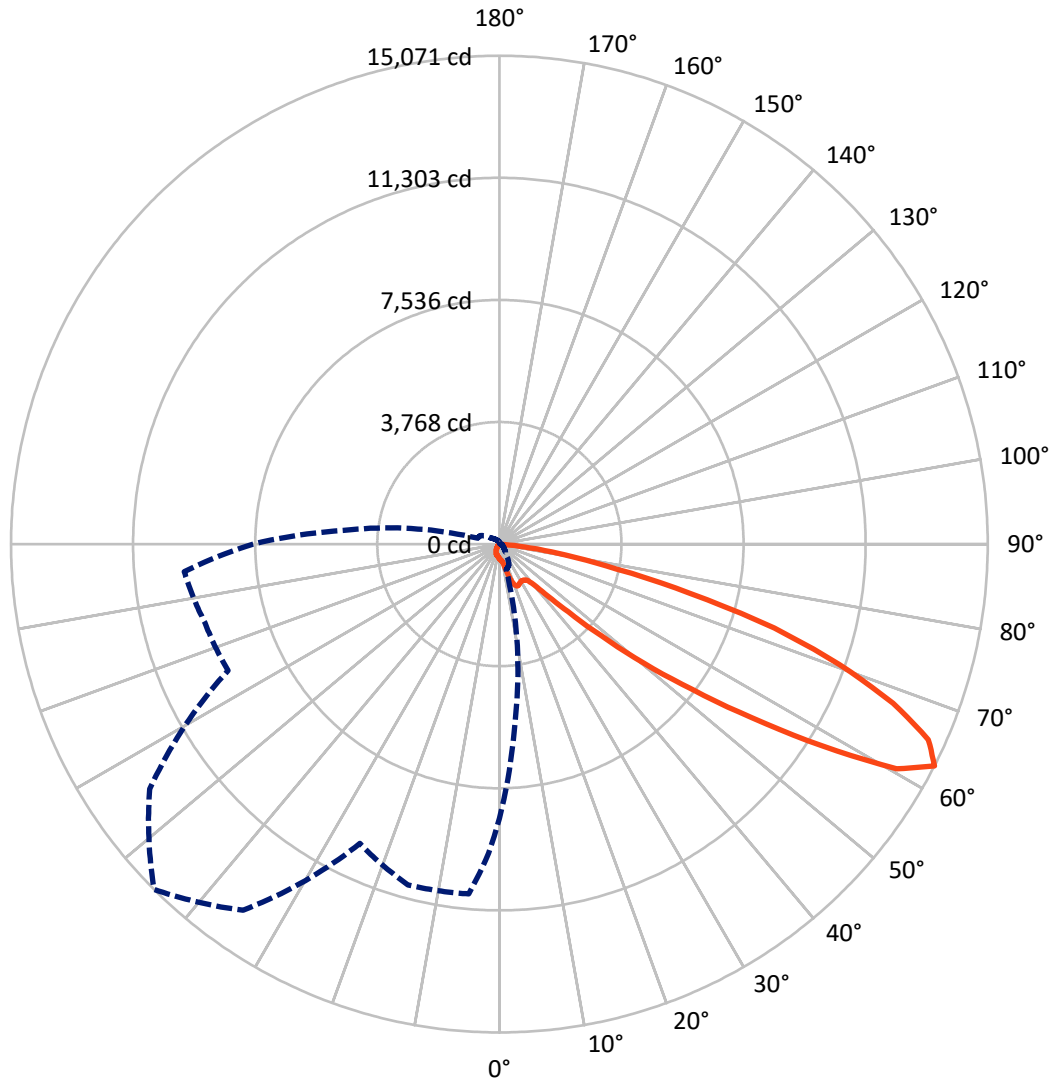
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 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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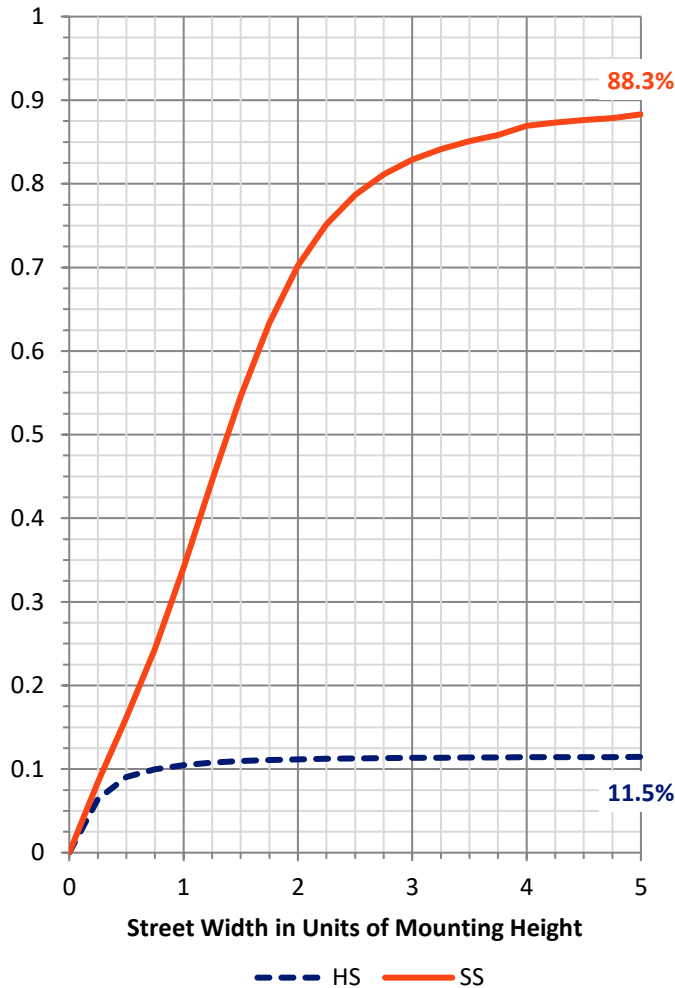
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1012.4	0.0	1012.4
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	7701.0	0.0	7701.0
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	8713.4	0.0	8713.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.0	0.4
10°-20°	133.7	1.5
20°-30°	302.2	3.5
30°-40°	520.5	6.0
40°-50°	981.9	11.3
50°-60°	2192.4	25.2
60°-70°	2932.3	33.7
70°-80°	1470.4	16.9
80°-90°	140.9	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°	8713.4	100.0
0°-180°	8713.4	100.0

**Coefficient of Utilization**

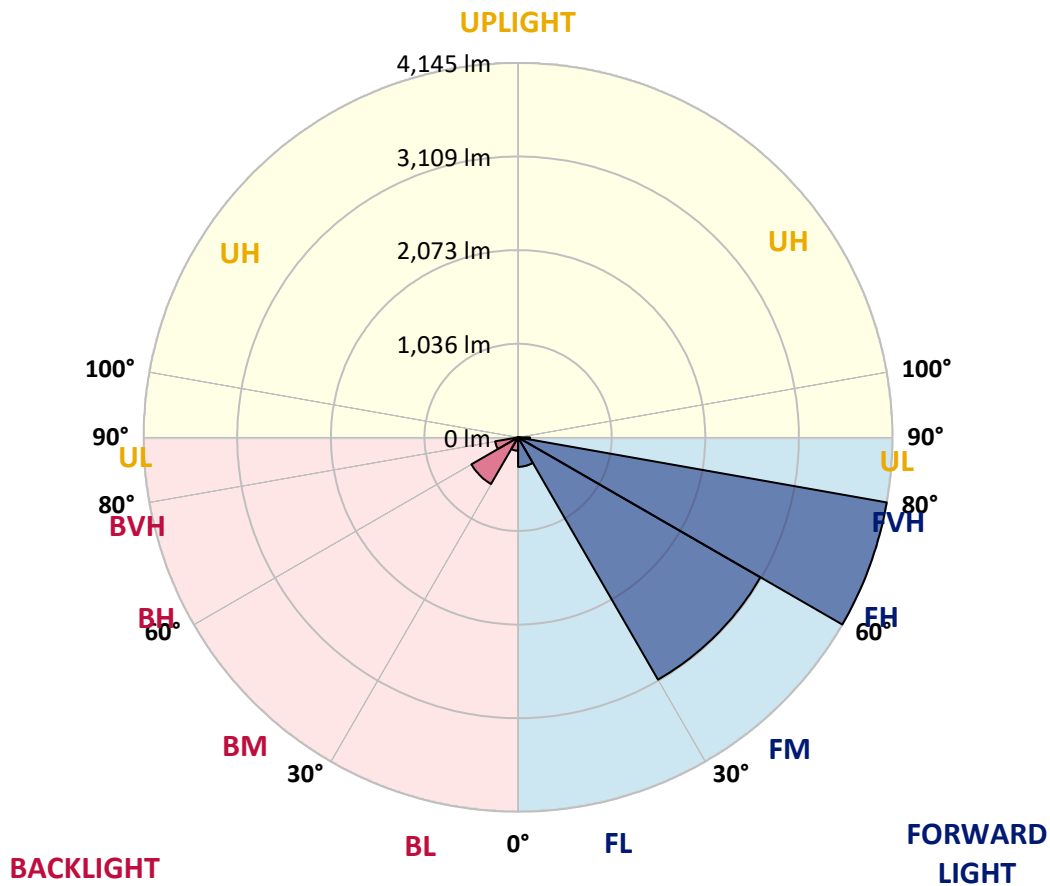


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.3	3.7			
FM (30°-60°)	3097.9	35.6			
FH (60°-80°)	4145.3	47.6			G2/5000
FVH (80°-90°)	131.6	1.5			G2/225
BL (0°-30°)	148.6	1.7	B1/500		
BM (30°-60°)	597.0	6.9	B1/1000		
BH (60°-80°)	257.5	3.0	B1/500		G1/500
BVH (80°-90°)	9.4	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°	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9
2.5°	446.7	445.7	443.6	437.4	432.3	429.2	423.0	423.0	422.0	419.9	415.8
5°	432.3	428.2	424.0	412.7	400.3	393.1	384.8	383.8	383.8	381.7	380.7
7.5°	409.6	405.5	400.3	381.7	370.4	363.2	355.9	354.9	351.8	351.8	351.8
10°	397.2	391.0	382.8	362.1	350.8	344.6	339.4	336.3	334.3	331.2	330.1
12.5°	424.0	412.7	395.1	358.0	342.5	334.3	328.1	326.0	319.8	315.7	312.6
15°	507.6	479.7	444.7	367.3	339.4	327.1	318.8	314.7	309.5	302.3	297.1
17.5°	644.8	604.6	545.8	397.2	336.3	320.9	310.5	303.3	296.1	287.8	281.7
20°	834.7	774.8	704.7	451.9	336.3	313.6	301.3	292.0	281.7	272.4	265.1
22.5°	1076.1	1016.2	896.6	544.7	340.5	304.4	289.9	277.5	265.1	256.9	248.6
25°	1346.4	1261.8	1150.4	657.2	351.8	292.0	276.5	264.1	252.8	242.5	233.2
27.5°	1647.6	1555.8	1407.3	817.1	376.6	279.6	262.1	250.7	240.4	230.1	217.7
30°	1925.2	1870.5	1718.8	1009.0	416.8	271.3	250.7	240.4	230.1	216.7	205.3
32.5°	2258.4	2161.4	2036.6	1227.7	470.5	263.1	241.4	227.0	218.7	206.3	194.0
35°	2593.7	2511.2	2347.1	1497.0	530.3	254.8	230.1	216.7	209.4	195.0	181.6
37.5°	2939.3	2920.8	2758.8	1795.2	589.1	245.5	216.7	208.4	201.2	184.7	169.2
40°	3279.8	3245.8	3096.2	2135.6	625.2	235.2	205.3	200.2	191.9	173.3	155.8
42.5°	3605.8	3580.0	3434.6	2461.7	620.1	225.9	194.0	187.8	181.6	163.0	141.3
45°	4006.1	3963.8	3780.2	2703.1	567.4	236.3	182.6	172.3	171.3	153.7	126.9
47.5°	4755.2	4615.9	4304.3	2888.8	514.8	263.1	170.2	157.9	165.1	144.4	112.5
50°	5804.4	5640.4	5189.5	3033.2	513.8	298.2	168.2	144.4	159.9	137.2	100.1
52.5°	6858.8	6569.9	6022.1	3110.6	552.0	324.0	186.7	131.0	153.7	130.0	90.8
55°	7868.9	7269.4	6370.8	2854.7	581.9	351.8	220.8	123.8	142.4	121.7	85.6
57.5°	8831.4	7831.7	6522.5	2258.4	682.0	363.2	241.4	126.9	125.9	111.4	81.5
60°	8963.5	7804.9	6216.1	1313.4	752.1	343.6	233.2	141.3	110.4	99.0	74.3
62.5°	8464.2	7285.9	5517.6	819.2	698.5	336.3	207.4	160.9	100.1	87.7	65.0
65°	7705.8	6471.9	4600.4	528.2	529.3	373.5	181.6	157.9	93.9	77.4	55.7
67.5°	6520.4	5416.5	3624.4	353.9	299.2	318.8	158.9	108.3	91.8	66.0	43.3
70°	4759.3	3855.5	2359.5	236.3	178.5	254.8	133.1	77.4	86.7	54.7	31.0
72.5°	3478.9	2590.6	1317.5	154.8	101.1	148.6	98.0	55.7	67.1	40.2	21.7
75°	2504.0	1782.8	752.1	99.0	67.1	81.5	64.0	38.2	43.3	32.0	19.6
77.5°	1205.0	868.7	341.5	54.7	45.4	41.3	34.0	23.7	26.8	28.9	17.5
80°	45.4	34.0	25.8	26.8	28.9	18.6	15.5	12.4	15.5	19.6	9.3
82.5°	0.0	0.0	0.0	3.1	4.1	5.2	6.2	5.2	6.2	7.2	1.0
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°	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9
2.5°	418.9	416.8	418.9	420.9	423.0	425.1	422.0	424.0	426.1	420.9	423.0
5°	385.9	384.8	391.0	394.1	398.2	400.3	398.2	398.2	397.2	391.0	391.0
7.5°	357.0	358.0	363.2	370.4	375.5	378.6	376.6	375.5	372.4	363.2	363.2
10°	335.3	335.3	343.6	349.8	357.0	360.1	358.0	354.9	351.8	342.5	341.5
12.5°	317.8	317.8	324.0	334.3	342.5	346.7	345.6	341.5	336.3	327.1	326.0
15°	301.3	300.2	309.5	318.8	330.1	335.3	333.2	330.1	320.9	312.6	310.5
17.5°	284.8	283.7	292.0	304.4	316.7	324.0	322.9	315.7	307.4	297.1	295.1
20°	268.2	266.2	276.5	288.9	301.3	308.5	306.4	300.2	289.9	279.6	277.5
22.5°	251.7	250.7	257.9	268.2	279.6	285.8	284.8	279.6	269.3	260.0	260.0
25°	233.2	233.2	238.3	245.5	253.8	256.9	257.9	255.9	249.7	244.5	244.5
27.5°	217.7	214.6	216.7	218.7	222.8	228.0	228.0	230.1	231.1	229.0	230.1
30°	205.3	200.2	197.1	192.9	190.9	192.9	195.0	202.2	209.4	213.6	215.6
32.5°	190.9	184.7	176.4	165.1	157.9	155.8	162.0	175.4	188.8	198.1	203.2
35°	176.4	168.2	152.7	136.2	126.9	123.8	131.0	146.5	166.1	182.6	189.8
37.5°	162.0	150.6	129.0	109.4	99.0	97.0	104.2	120.7	143.4	166.1	175.4
40°	145.5	132.1	106.3	85.6	77.4	75.3	81.5	98.0	121.7	147.5	162.0
42.5°	129.0	112.5	85.6	68.1	59.8	59.8	68.1	80.5	102.1	130.0	147.5
45°	112.5	94.9	70.2	54.7	49.5	50.6	55.7	68.1	85.6	114.5	131.0
47.5°	97.0	81.5	57.8	45.4	41.3	42.3	48.5	58.8	73.3	99.0	116.6
50°	83.6	69.1	50.6	38.2	35.1	37.1	43.3	52.6	65.0	87.7	102.1
52.5°	75.3	61.9	46.4	33.0	31.0	33.0	39.2	47.5	58.8	77.4	91.8
55°	71.2	60.9	46.4	29.9	26.8	28.9	35.1	43.3	52.6	70.2	82.5
57.5°	70.2	62.9	49.5	26.8	22.7	24.8	31.0	39.2	48.5	64.0	74.3
60°	66.0	59.8	48.5	21.7	17.5	20.6	25.8	34.0	44.4	59.8	69.1
62.5°	57.8	52.6	42.3	17.5	13.4	15.5	21.7	29.9	40.2	54.7	65.0
65°	47.5	42.3	33.0	11.3	8.3	10.3	16.5	25.8	35.1	49.5	58.8
67.5°	35.1	29.9	22.7	7.2	4.1	7.2	13.4	21.7	32.0	44.4	53.6
70°	21.7	17.5	12.4	4.1	3.1	6.2	12.4	20.6	28.9	41.3	50.6
72.5°	12.4	8.3	5.2	2.1	3.1	6.2	12.4	20.6	27.9	39.2	47.5
75°	9.3	5.2	2.1	1.0	2.1	5.2	11.3	18.6	26.8	37.1	45.4
77.5°	6.2	3.1	1.0	0.0	1.0	4.1	10.3	17.5	24.8	35.1	43.3
80°	1.0	0.0	0.0	0.0	0.0	3.1	9.3	15.5	22.7	31.0	38.2
82.5°	0.0	0.0	0.0	0.0	0.0	1.0	7.2	13.4	19.6	25.8	31.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.1	10.3	15.5	19.6	21.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	10.3	12.4	14.4
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°	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9
2.5°	422.0	428.2	428.2	432.3	437.4	446.7	451.9	459.1	464.3	469.4	471.5
5°	390.0	391.0	392.1	394.1	400.3	410.6	419.9	431.3	444.7	455.0	461.2
7.5°	363.2	363.2	363.2	366.3	372.4	379.7	389.0	404.4	419.9	432.3	442.6
10°	340.5	343.6	344.6	349.8	357.0	366.3	376.6	390.0	407.5	424.0	442.6
12.5°	326.0	329.1	334.3	339.4	346.7	357.0	368.3	385.9	422.0	456.0	495.2
15°	312.6	316.7	322.9	330.1	338.4	349.8	362.1	398.2	482.8	546.8	608.7
17.5°	298.2	304.4	312.6	319.8	330.1	342.5	358.0	428.2	594.3	700.5	805.8
20°	279.6	287.8	297.1	308.5	320.9	335.3	358.0	490.1	755.2	907.9	1047.2
22.5°	262.1	270.3	281.7	296.1	310.5	325.0	363.2	583.9	962.6	1155.5	1331.9
25°	247.6	257.9	269.3	281.7	298.2	314.7	375.5	716.0	1212.3	1460.9	1585.7
27.5°	234.2	246.6	257.9	268.2	282.7	301.3	403.4	892.4	1507.3	1760.1	1858.1
30°	220.8	235.2	246.6	256.9	271.3	290.9	445.7	1117.3	1835.4	2081.0	2091.3
32.5°	209.4	222.8	236.3	246.6	260.0	282.7	504.5	1380.4	2171.8	2409.0	2312.1
35°	197.1	212.5	224.9	236.3	250.7	275.5	572.6	1664.1	2511.2	2710.3	2531.8
37.5°	184.7	202.2	217.7	225.9	240.4	268.2	622.1	1960.3	2857.8	3004.3	2724.7
40°	173.3	192.9	210.5	218.7	225.9	259.0	629.3	2263.6	3209.7	3294.3	2906.3
42.5°	160.9	182.6	198.1	209.4	215.6	252.8	586.0	2519.4	3504.7	3583.1	3143.6
45°	147.5	173.3	185.7	194.0	206.3	256.9	530.3	2717.5	3842.1	3977.2	3534.6
47.5°	134.1	163.0	173.3	179.5	196.0	281.7	509.7	2849.6	4398.2	4678.8	4193.9
50°	121.7	153.7	165.1	164.0	194.0	313.6	532.4	2949.7	5233.9	5564.0	5097.7
52.5°	108.3	143.4	156.8	152.7	209.4	338.4	577.8	3029.1	5876.6	6601.9	6312.0
55°	97.0	132.1	144.4	143.4	238.3	357.0	612.8	2610.2	6142.8	7566.6	7680.1
57.5°	88.7	119.7	130.0	147.5	256.9	357.0	708.8	1853.0	6148.0	8276.4	9495.9
60°	81.5	108.3	115.6	162.0	249.7	338.4	701.6	1134.9	5666.2	8227.9	10461.6
62.5°	75.3	98.0	107.3	166.1	220.8	335.3	633.5	703.6	4832.5	7601.6	9761.0
65°	70.2	89.8	103.2	152.7	200.2	359.0	427.1	505.5	3919.5	6887.7	8957.3
67.5°	65.0	82.5	109.4	124.8	181.6	320.9	308.5	359.0	3076.6	6104.6	8219.6
70°	60.9	78.4	115.6	102.1	158.9	250.7	218.7	272.4	2355.4	5093.6	7180.7
72.5°	57.8	73.3	97.0	80.5	129.0	194.0	152.7	198.1	1539.3	3976.2	5853.9
75°	54.7	67.1	71.2	65.0	95.9	126.9	115.6	133.1	917.2	2906.3	4441.5
77.5°	53.6	62.9	57.8	52.6	65.0	75.3	87.7	89.8	447.8	1453.7	2327.5
80°	47.5	56.7	49.5	43.3	44.4	49.5	65.0	59.8	102.1	369.4	621.1
82.5°	37.1	44.4	41.3	36.1	36.1	36.1	43.3	40.2	33.0	166.1	280.6
85°	25.8	31.0	31.0	28.9	27.9	27.9	26.8	25.8	9.3	10.3	15.5
87.5°	17.5	21.7	22.7	21.7	18.6	16.5	14.4	12.4	4.1	0.0	2.1
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°	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9	451.9
2.5°	478.7	481.8	481.8	477.7	474.6	466.3	458.1	449.8	447.8	446.7
5°	478.7	491.1	497.3	496.3	489.0	475.6	458.1	439.5	434.4	432.3
7.5°	471.5	495.2	513.8	516.9	503.5	479.7	447.8	419.9	412.7	409.6
10°	488.0	534.4	571.6	576.7	561.3	514.8	463.2	415.8	404.4	397.2
12.5°	576.7	653.1	698.5	720.1	690.2	631.4	545.8	461.2	435.4	424.0
15°	756.2	864.6	951.2	951.2	923.4	819.2	710.8	573.6	538.6	507.6
17.5°	986.3	1122.5	1198.8	1190.6	1148.3	1075.0	945.0	748.0	676.8	644.8
20°	1248.4	1329.9	1347.4	1342.3	1323.7	1281.4	1191.6	980.1	884.2	834.7
22.5°	1475.3	1453.7	1427.9	1407.3	1402.1	1414.5	1402.1	1239.1	1163.8	1076.1
25°	1629.1	1506.3	1428.9	1391.8	1409.3	1480.5	1557.9	1497.0	1437.2	1346.4
27.5°	1712.6	1500.1	1388.7	1350.5	1380.4	1481.5	1649.7	1752.9	1691.0	1647.6
30°	1758.0	1494.9	1362.9	1325.7	1371.1	1498.0	1713.7	1992.2	1994.3	1925.2
32.5°	1823.0	1528.0	1368.0	1334.0	1394.9	1547.6	1794.1	2235.7	2295.6	2258.4
35°	1896.3	1578.5	1391.8	1360.8	1436.1	1613.6	1883.9	2481.3	2606.1	2593.7
37.5°	1965.4	1635.3	1447.5	1417.6	1499.1	1670.3	1970.6	2722.7	2896.0	2939.3
40°	2037.6	1714.7	1618.8	1647.6	1693.0	1760.1	2047.9	2932.1	3214.8	3279.8
42.5°	2207.9	1990.2	2136.7	2191.4	2197.5	2059.3	2217.1	3200.4	3528.5	3605.8
45°	2587.5	2480.2	2900.1	2977.5	2937.3	2518.4	2624.7	3587.3	3966.9	4006.1
47.5°	3067.3	3116.8	3945.3	4212.5	3971.1	3060.1	3118.9	4401.3	4769.6	4755.2
50°	3626.5	3860.7	5131.7	5762.1	5184.3	3763.7	3688.4	5402.0	5848.8	5804.4
52.5°	4287.8	4725.2	6557.6	7453.1	6906.3	4555.0	4524.1	6727.8	7000.2	6858.8
55°	5120.4	5559.9	8198.0	9449.4	8671.5	5520.7	5627.0	8265.0	8317.7	7868.9
57.5°	6362.6	6648.3	10131.4	11738.8	10514.2	6833.0	7603.7	10310.9	9681.6	8831.4
60°	8617.9	8048.4	11999.8	14080.8	12474.4	8678.8	10210.8	11523.2	10135.5	8963.5
62.5°	9403.0	9236.9	13169.8	15071.2	13792.9	10194.3	10888.7	10836.1	9547.5	8464.2
65°	8213.5	8940.8	12960.4	14548.2	13623.7	9944.7	9771.3	10077.8	8885.1	7705.8
67.5°	7587.2	8245.4	12167.0	13104.8	12685.9	9097.6	8709.7	8626.1	7459.3	6520.4
70°	6955.8	7607.8	11016.6	11133.2	10938.2	7717.2	7207.5	6647.3	5575.4	4759.3
72.5°	6196.5	6555.5	9420.6	8867.6	8646.8	6061.3	5954.0	5005.9	4179.5	3478.9
75°	5404.1	5299.9	7344.8	6086.1	6251.1	4716.0	5028.6	3676.0	3062.1	2504.0
77.5°	3930.8	3853.4	4919.2	3696.6	4093.8	3088.9	2775.3	1467.1	1396.9	1205.0
80°	2193.4	2644.3	2656.7	2071.7	2584.4	2013.9	694.3	48.5	31.0	45.4
82.5°	1019.3	1136.9	1440.3	960.5	1474.3	997.7	143.4	0.0	0.0	0.0
85°	330.1	482.8	404.4	141.3	357.0	337.4	23.7	0.0	0.0	0.0
87.5°	19.6	40.2	10.3	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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