

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: P636725

Luminaire Tested: GWS-SA4B-735-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636725  
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-SA4B-735-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

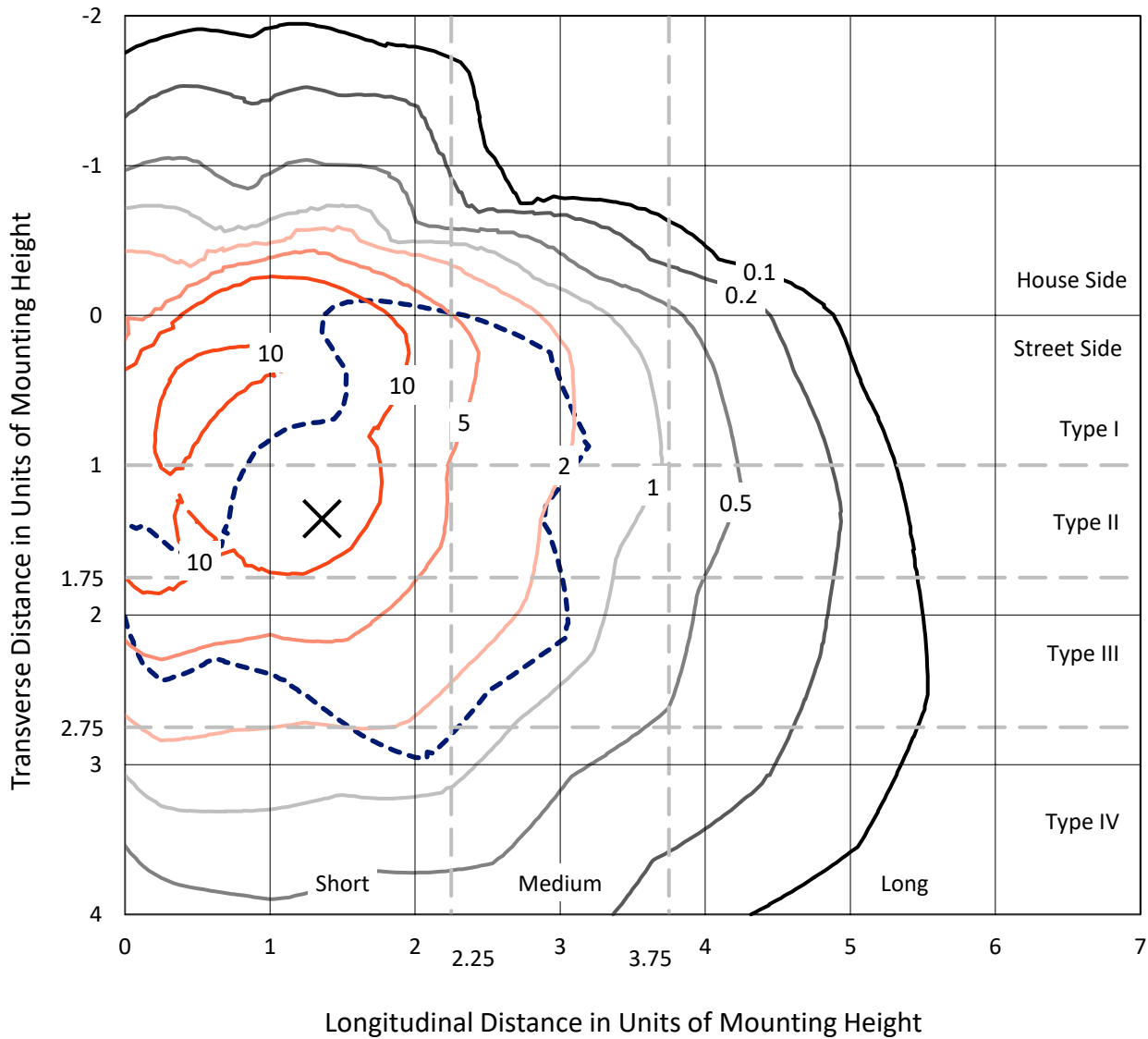
Lumens per Lamp: N/A  
Luminaire Lumens: 8859.6 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

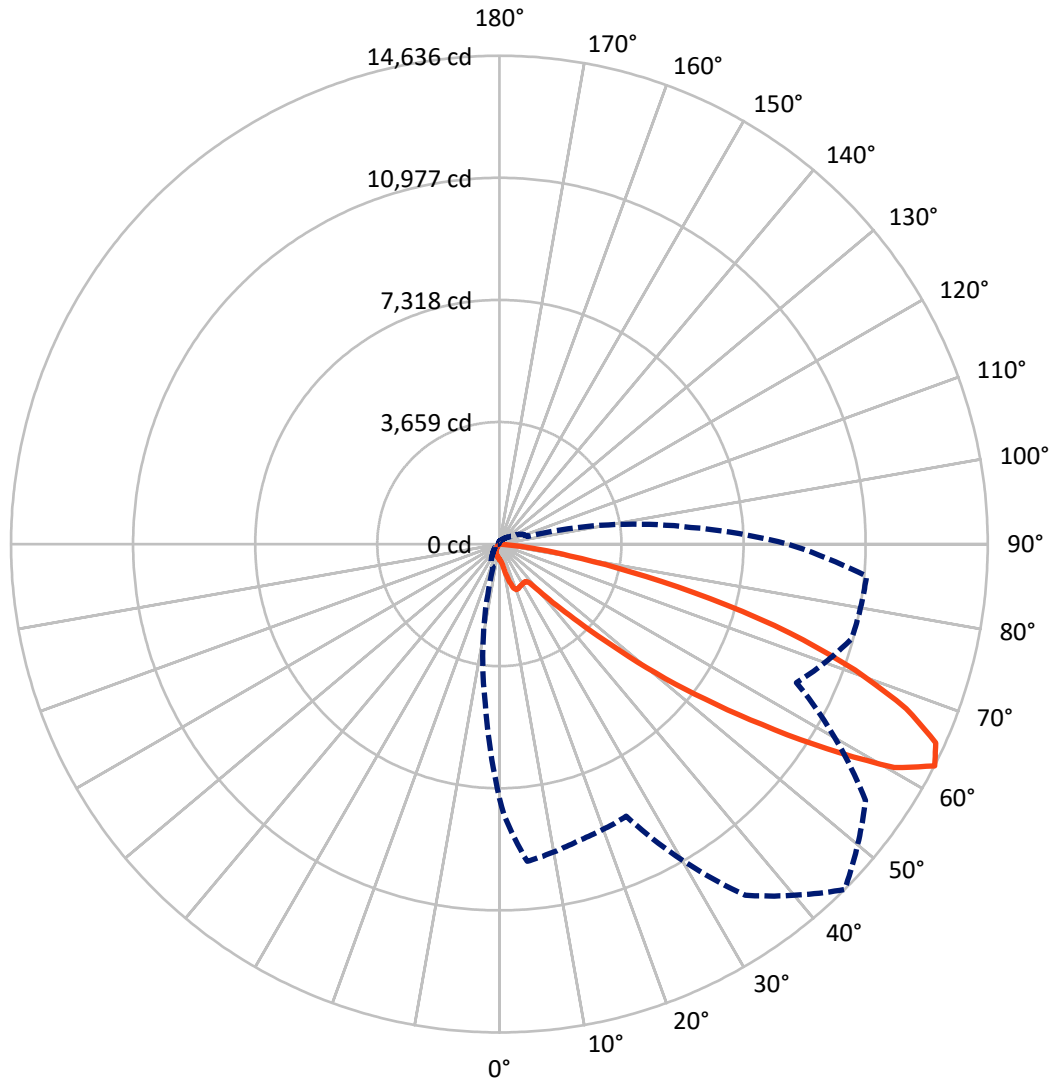
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 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	1093.3	0.0	1093.3
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	7766.3	0.0	7766.3
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	8859.6	0.0	8859.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.9	0.5
10°-20°	154.5	1.7
20°-30°	335.8	3.8
30°-40°	551.1	6.2
40°-50°	1013.2	11.4
50°-60°	2175.8	24.6
60°-70°	2922.4	33.0
70°-80°	1521.7	17.2
80°-90°	144.3	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°	8859.6	100.0
0°-180°	8859.6	100.0

**Coefficient of Utilization**

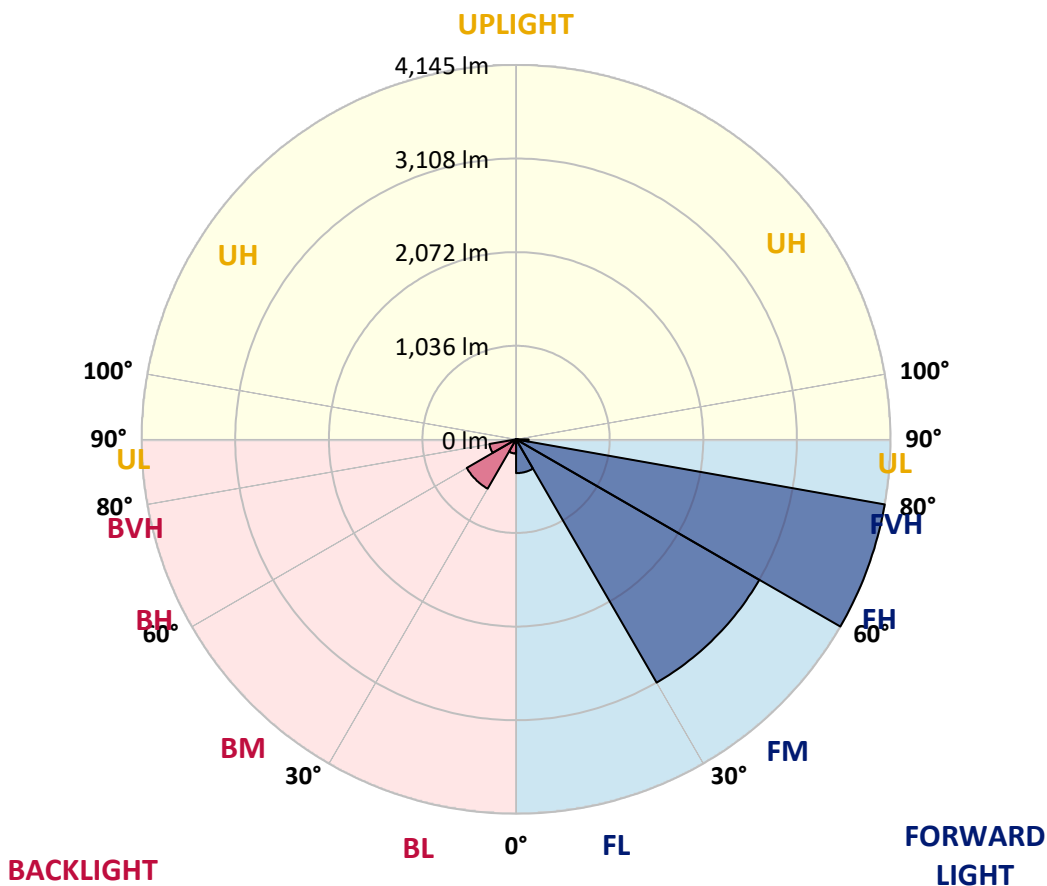


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	374.3	4.2			
FM (30°-60°)	3109.6	35.1			
FH (60°-80°)	4144.6	46.8			G2/5000
FVH (80°-90°)	137.9	1.6			G2/225
BL (0°-30°)	156.8	1.8	B1/500		
BM (30°-60°)	630.5	7.1	B1/1000		
BH (60°-80°)	299.6	3.4	B1/500		G1/500
BVH (80°-90°)	6.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5
2.5°	469.7	471.8	473.8	481.0	486.1	490.2	491.2	488.1	481.0	473.8	463.6
5°	455.4	457.4	464.6	484.1	503.5	518.8	524.0	520.9	503.5	481.0	457.4
7.5°	454.4	458.5	475.9	516.8	558.8	590.5	598.7	591.5	558.8	513.7	465.6
10°	491.2	498.4	524.0	597.6	674.4	730.7	753.2	722.5	670.3	588.4	509.6
12.5°	587.4	599.7	648.8	756.3	875.0	949.7	980.4	942.5	860.6	741.9	617.1
15°	738.9	757.3	831.0	991.6	1131.8	1198.4	1208.6	1187.1	1091.9	960.9	793.1
17.5°	952.8	979.4	1094.0	1257.7	1359.0	1382.6	1379.5	1357.0	1287.4	1197.3	1038.7
20°	1208.6	1240.3	1352.9	1488.0	1498.2	1470.6	1455.2	1441.9	1418.4	1403.0	1279.2
22.5°	1466.5	1505.4	1623.1	1656.8	1564.7	1484.9	1447.0	1457.3	1492.1	1567.8	1517.6
25°	1723.3	1760.2	1870.7	1779.6	1595.4	1462.4	1414.3	1438.8	1521.7	1685.5	1750.0
27.5°	2023.2	2050.8	2116.3	1863.5	1600.5	1444.0	1396.9	1434.8	1536.1	1759.2	2004.8
30°	2335.3	2351.7	2320.0	1886.1	1583.1	1416.3	1379.5	1434.8	1560.6	1808.3	2196.1
32.5°	2564.5	2567.6	2464.3	1888.1	1573.9	1393.8	1363.1	1428.6	1584.2	1849.2	2381.4
35°	2800.9	2785.6	2602.4	1918.8	1598.5	1402.0	1375.4	1446.0	1621.0	1897.3	2544.1
37.5°	3040.4	3012.8	2756.9	1969.0	1661.9	1491.0	1474.7	1535.0	1680.4	1963.8	2723.2
40°	3286.0	3248.2	2917.6	2044.7	1803.2	1794.0	1850.2	1843.1	1843.1	2048.8	2907.4
42.5°	3585.9	3541.9	3155.0	2258.6	2132.7	2338.4	2491.9	2396.7	2220.7	2244.2	3146.8
45°	3981.9	3944.0	3566.4	2667.9	2649.5	3122.3	3329.0	3140.7	2702.7	2695.5	3547.0
47.5°	4615.4	4608.2	4222.4	3142.8	3281.9	4120.1	4519.2	4156.9	3252.3	3173.5	4304.3
50°	5505.7	5484.2	5040.1	3699.5	4034.1	5356.3	6068.5	5464.8	3916.4	3731.2	5318.4
52.5°	6508.6	6531.1	6185.2	4307.3	4833.3	6731.7	7723.3	6963.0	4637.9	4440.4	6594.6
55°	7453.2	7582.1	7491.0	5018.6	5614.2	8250.4	9540.8	8606.5	5531.3	5368.6	8025.2
57.5°	8192.0	8555.3	9193.9	6052.2	6532.1	10026.9	11570.2	10388.2	6574.1	6876.0	9972.7
60°	8233.0	8713.9	10196.8	8214.5	7713.1	11550.7	13596.4	12128.9	8213.5	9435.4	11498.5
62.5°	7615.9	8131.6	9543.9	9197.0	8999.5	12847.3	14636.2	13397.9	9826.3	10934.6	11046.2
65°	6909.8	7430.6	8815.3	8082.5	8850.1	12792.0	14372.1	13427.6	9972.7	9915.4	10236.7
67.5°	5842.4	6310.1	7563.7	7154.3	8157.2	12175.0	13152.3	12581.2	9187.8	9273.7	9417.0
70°	4264.4	4714.6	5878.2	5898.7	7123.6	11062.6	11301.0	11222.2	8461.2	8552.3	8142.9
72.5°	3080.3	3460.0	4463.9	4837.4	5686.8	9276.8	9112.0	9416.0	7259.7	7616.9	6540.3
75°	2214.6	2499.1	3274.8	4208.1	4507.9	6889.3	6522.9	7292.5	5825.0	6558.7	4917.3
77.5°	898.5	998.8	1288.4	2834.7	2962.6	4634.8	3993.2	5296.9	4152.8	4309.4	2383.4
80°	36.8	40.9	53.2	1463.4	2031.4	2607.5	2136.8	2831.6	2742.6	1735.6	562.9
82.5°	4.1	4.1	9.2	421.6	889.3	1438.8	1007.0	1631.2	1388.7	735.8	255.8
85°	1.0	1.0	2.0	48.1	208.8	230.3	136.1	500.4	645.7	300.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	9.2	10.2	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°	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5
2.5°	463.6	458.5	452.3	446.2	443.1	434.9	431.9	429.8	427.8	428.8	428.8
5°	448.2	437.0	423.7	410.4	403.2	395.0	390.9	388.9	389.9	394.0	394.0
7.5°	446.2	424.7	396.0	378.6	370.5	364.3	360.2	358.2	359.2	364.3	366.4
10°	480.0	442.1	390.9	361.2	352.0	345.9	341.8	338.7	336.7	340.8	341.8
12.5°	552.6	500.4	415.5	359.2	342.8	334.6	331.6	325.4	322.4	324.4	325.4
15°	703.1	613.0	464.6	367.4	334.6	325.4	320.3	315.2	310.1	309.1	310.1
17.5°	899.5	770.6	539.3	386.8	328.5	317.2	310.1	302.9	295.8	294.7	293.7
20°	1143.1	964.0	643.7	417.5	323.4	310.1	299.8	289.6	280.4	277.3	277.3
22.5°	1365.2	1197.3	777.8	455.4	316.2	299.8	287.6	275.3	265.1	259.9	258.9
25°	1636.4	1445.0	938.4	499.4	306.0	286.5	273.2	261.0	250.7	244.6	242.5
27.5°	1909.6	1705.9	1120.6	556.7	293.7	273.2	261.0	249.7	238.4	231.3	229.2
30°	2174.6	1987.4	1325.3	628.3	284.5	259.9	249.7	238.4	228.2	217.0	213.9
32.5°	2459.1	2274.9	1554.5	708.2	277.3	250.7	239.5	229.2	215.9	205.7	200.6
35°	2733.4	2571.7	1807.3	785.9	270.2	242.5	230.3	220.0	205.7	194.4	187.3
37.5°	3009.7	2873.6	2071.3	833.0	259.9	231.3	220.0	211.8	195.5	182.2	174.0
40°	3302.4	3185.7	2356.8	813.6	250.7	219.0	212.9	203.6	185.2	169.9	159.6
42.5°	3623.7	3483.5	2647.4	738.9	242.5	208.8	202.6	193.4	176.0	157.6	144.3
45°	4028.0	3810.0	2885.9	626.3	246.6	198.5	186.3	184.2	167.8	144.3	127.9
47.5°	4722.8	4311.4	3071.1	553.6	274.3	187.3	172.9	178.1	160.7	131.0	112.6
50°	5786.1	5142.4	3244.1	548.5	316.2	182.2	160.7	174.0	153.5	117.7	99.3
52.5°	6799.2	5986.7	3354.6	593.6	353.1	195.5	148.4	168.9	148.4	108.5	90.1
55°	7768.4	6473.8	3157.1	626.3	387.9	235.4	139.2	160.7	142.2	103.4	87.0
57.5°	8813.2	6690.8	2485.8	692.8	412.4	269.1	141.2	148.4	134.1	100.3	86.0
60°	9125.3	6413.4	1500.3	779.8	399.1	279.4	156.6	132.0	122.8	94.1	82.9
62.5°	8640.3	5755.4	885.2	710.2	387.9	264.0	179.1	121.8	111.5	86.0	76.8
65°	7914.7	4862.0	577.2	599.7	411.4	235.4	190.3	116.7	101.3	77.8	67.5
67.5°	7085.8	3916.4	404.2	354.1	379.7	211.8	160.7	115.6	91.1	65.5	55.3
70°	5968.3	2933.0	284.5	234.4	316.2	188.3	124.9	112.6	79.8	53.2	43.0
72.5°	4611.3	1835.9	211.8	151.5	225.1	153.5	99.3	95.2	64.5	44.0	32.7
75°	3400.6	1046.9	149.4	109.5	148.4	116.7	73.7	67.5	55.3	42.0	29.7
77.5°	1775.5	524.0	93.1	83.9	84.9	72.7	53.2	49.1	51.2	42.0	27.6
80°	340.8	104.4	56.3	61.4	46.1	46.1	38.9	40.9	45.0	33.8	23.5
82.5°	142.2	22.5	30.7	34.8	28.7	31.7	31.7	32.7	31.7	24.6	17.4
85°	0.0	0.0	13.3	14.3	19.4	19.4	16.4	16.4	16.4	14.3	10.2
87.5°	0.0	0.0	0.0	0.0	1.0	3.1	6.1	7.2	8.2	6.1	4.1
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5
2.5°	427.8	425.7	428.8	430.8	432.9	432.9	430.8	428.8	425.7	428.8	425.7
5°	395.0	398.1	403.2	405.3	407.3	403.2	401.2	395.0	389.9	390.9	388.9
7.5°	369.4	372.5	378.6	382.7	382.7	380.7	374.6	368.4	360.2	360.2	359.2
10°	345.9	350.0	357.2	362.3	364.3	362.3	356.1	347.9	340.8	340.8	337.7
12.5°	326.5	331.6	339.8	346.9	349.0	346.9	340.8	332.6	324.4	324.4	322.4
15°	310.1	316.2	325.4	333.6	336.7	333.6	326.5	316.2	308.0	309.1	306.0
17.5°	294.7	299.8	312.1	321.3	324.4	321.3	312.1	298.8	290.6	292.7	290.6
20°	277.3	283.5	295.8	306.0	309.1	306.0	295.8	281.4	273.2	273.2	274.3
22.5°	258.9	265.1	277.3	284.5	288.6	285.5	275.3	262.0	253.8	253.8	254.8
25°	242.5	245.6	254.8	262.0	263.0	259.9	251.7	241.5	235.4	238.4	239.5
27.5°	227.2	227.2	231.3	235.4	234.4	231.3	228.2	220.0	219.0	222.1	225.1
30°	210.8	205.7	203.6	200.6	199.6	198.5	201.6	201.6	203.6	207.7	210.8
32.5°	196.5	186.3	177.0	167.8	162.7	166.8	175.0	182.2	189.3	195.5	198.5
35°	180.1	163.7	148.4	136.1	127.9	134.1	147.4	160.7	172.9	181.1	186.3
37.5°	163.7	140.2	121.8	106.4	100.3	105.4	119.7	138.2	156.6	166.8	174.0
40°	146.3	116.7	95.2	82.9	76.8	81.9	96.2	114.6	139.2	152.5	161.7
42.5°	128.9	96.2	76.8	64.5	61.4	64.5	75.7	94.1	120.8	137.1	149.4
45°	111.5	79.8	61.4	52.2	49.1	52.2	61.4	76.8	103.4	121.8	136.1
47.5°	96.2	67.5	51.2	43.0	40.9	44.0	51.2	64.5	87.0	105.4	121.8
50°	83.9	59.4	44.0	36.8	34.8	37.9	44.0	54.2	73.7	90.1	107.5
52.5°	75.7	55.3	38.9	31.7	30.7	32.7	37.9	46.1	62.4	76.8	93.1
55°	73.7	55.3	35.8	28.7	27.6	29.7	33.8	39.9	54.2	66.5	80.8
57.5°	75.7	59.4	33.8	24.6	23.5	25.6	29.7	34.8	47.1	57.3	70.6
60°	75.7	60.4	29.7	19.4	18.4	20.5	24.6	30.7	42.0	50.1	61.4
62.5°	68.6	55.3	24.6	15.4	13.3	15.4	20.5	25.6	36.8	45.0	54.2
65°	59.4	47.1	20.5	11.3	9.2	11.3	16.4	21.5	31.7	38.9	49.1
67.5°	48.1	35.8	15.4	8.2	6.1	8.2	12.3	17.4	26.6	33.8	44.0
70°	35.8	25.6	12.3	7.2	6.1	7.2	11.3	16.4	23.5	30.7	40.9
72.5°	26.6	17.4	10.2	7.2	5.1	7.2	10.2	15.4	22.5	29.7	38.9
75°	22.5	14.3	9.2	6.1	5.1	6.1	9.2	14.3	20.5	27.6	36.8
77.5°	21.5	13.3	8.2	5.1	4.1	5.1	8.2	12.3	18.4	25.6	35.8
80°	18.4	11.3	7.2	4.1	3.1	4.1	7.2	10.2	14.3	19.4	27.6
82.5°	14.3	9.2	5.1	2.0	1.0	2.0	5.1	6.1	9.2	11.3	16.4
85°	9.2	5.1	2.0	0.0	0.0	0.0	2.0	4.1	4.1	5.1	8.2
87.5°	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.1
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°	359°	360°
0°	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5
2.5°	431.9	432.9	434.9	438.0	445.2	451.3	457.4	465.6	469.7	469.7
5°	390.9	391.9	393.0	397.1	407.3	415.5	428.8	445.2	453.4	455.4
7.5°	359.2	361.2	363.3	366.4	376.6	387.9	405.3	436.0	451.3	454.4
10°	340.8	343.9	347.9	354.1	363.3	375.6	405.3	460.5	486.1	491.2
12.5°	326.5	331.6	335.7	342.8	354.1	373.5	432.9	530.1	575.1	587.4
15°	312.1	318.3	324.4	331.6	343.9	380.7	486.1	655.0	729.7	738.9
17.5°	297.8	305.0	313.1	321.3	336.7	398.1	570.0	827.9	932.3	952.8
20°	281.4	290.6	301.9	312.1	329.5	425.7	686.7	1033.6	1164.6	1208.6
22.5°	264.0	275.3	288.6	301.9	321.3	459.5	827.9	1254.6	1437.8	1466.5
25°	249.7	261.0	273.2	286.5	308.0	500.4	998.8	1528.9	1695.7	1723.3
27.5°	236.4	247.7	258.9	271.2	294.7	553.6	1204.5	1820.6	1994.5	2023.2
30°	222.1	235.4	246.6	258.9	282.4	619.1	1441.9	2143.9	2308.7	2335.3
32.5°	209.8	223.1	234.4	246.6	273.2	690.8	1691.6	2430.5	2564.5	2564.5
35°	199.6	213.9	222.1	238.4	266.1	736.8	1928.0	2703.7	2805.0	2800.9
37.5°	188.3	205.7	211.8	223.1	256.9	741.9	2150.1	2992.3	3067.0	3040.4
40°	177.0	195.5	204.7	210.8	246.6	700.0	2393.6	3257.4	3320.8	3286.0
42.5°	166.8	181.1	194.4	201.6	240.5	626.3	2589.1	3540.8	3616.6	3585.9
45°	156.6	168.9	177.0	190.3	244.6	575.1	2756.9	3871.4	4004.4	3981.9
47.5°	146.3	156.6	161.7	182.2	272.2	551.6	2859.3	4383.1	4633.8	4615.4
50°	135.1	147.4	147.4	180.1	313.1	559.8	2948.3	5124.0	5511.8	5505.7
52.5°	123.8	137.1	135.1	195.5	344.9	597.6	3049.6	5777.9	6452.3	6508.6
55°	112.6	124.9	126.9	226.2	363.3	630.4	2657.7	6053.2	7255.7	7453.2
57.5°	100.3	107.5	132.0	249.7	357.2	725.6	1820.6	6103.3	7768.4	8192.0
60°	87.0	93.1	149.4	244.6	337.7	670.3	1146.2	5653.1	7695.7	8233.0
62.5°	75.7	86.0	157.6	215.9	343.9	581.3	730.7	4818.0	7002.9	7615.9
65°	66.5	82.9	143.3	195.5	347.9	394.0	493.3	3919.5	6326.4	6909.8
67.5°	59.4	92.1	117.7	174.0	298.8	277.3	338.7	3045.5	5319.4	5842.4
70°	54.2	94.1	96.2	149.4	231.3	178.1	223.1	2049.8	3666.7	4264.4
72.5°	49.1	69.6	72.7	119.7	149.4	108.5	144.3	1172.8	2673.0	3080.3
75°	47.1	47.1	50.1	77.8	82.9	78.8	93.1	700.0	1916.8	2214.6
77.5°	44.0	35.8	31.7	50.1	45.0	56.3	55.3	311.1	831.0	898.5
80°	34.8	25.6	21.5	31.7	30.7	37.9	32.7	25.6	37.9	36.8
82.5°	21.5	16.4	15.4	19.4	17.4	19.4	15.4	4.1	4.1	4.1
85°	10.2	9.2	8.2	8.2	9.2	8.2	6.1	2.0	1.0	1.0
87.5°	5.1	5.1	4.1	3.1	4.1	4.1	3.1	1.0	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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