

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: P633315

Luminaire Tested: GWS-SA2E-740-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633315  
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-SA2E-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

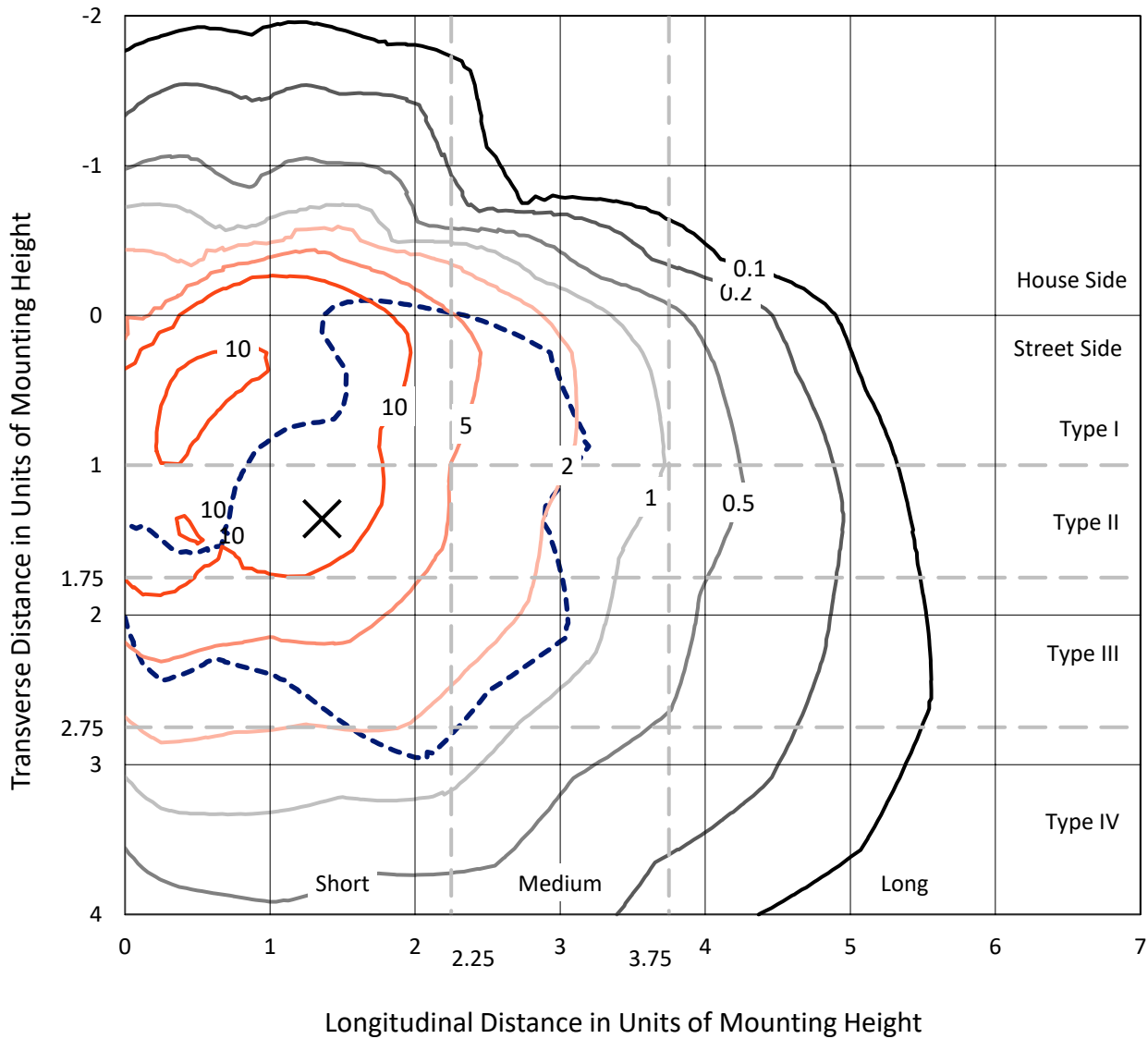
Lumens per Lamp: N/A  
Luminaire Lumens: 9055.1 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

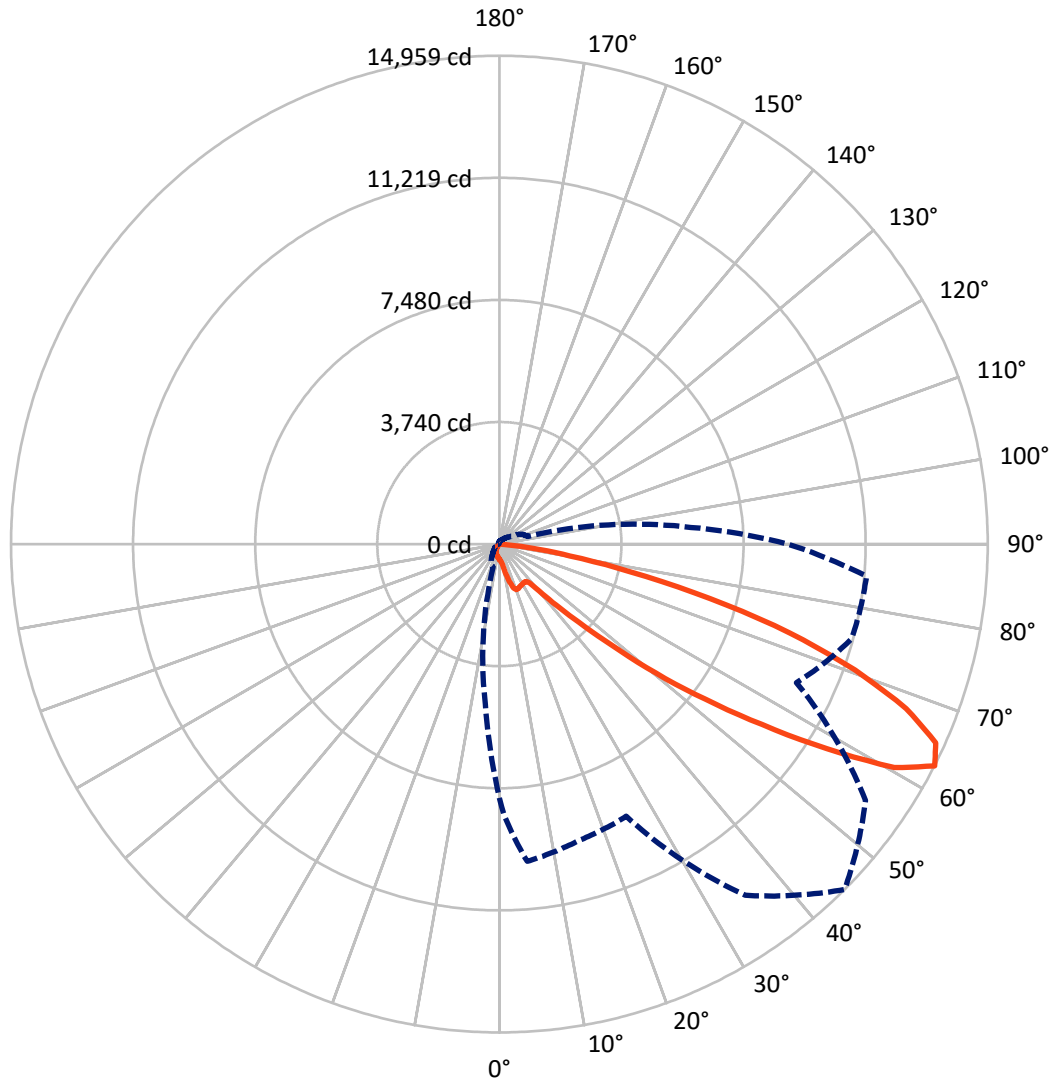
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 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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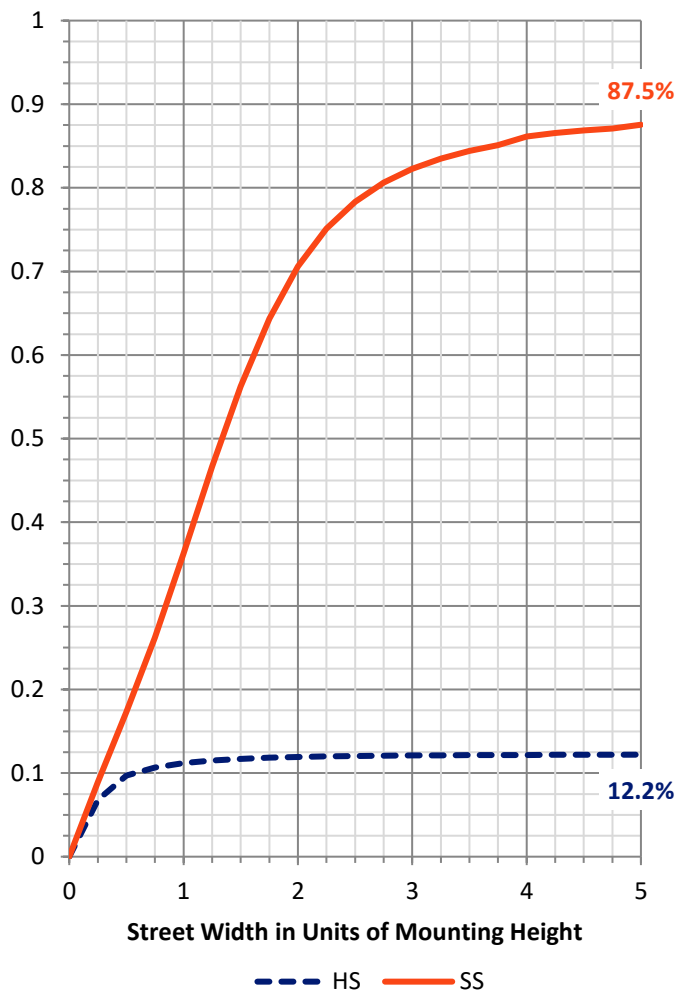
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1117.4	0.0	1117.4
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	7937.7	0.0	7937.7
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	9055.1	0.0	9055.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.8	0.5
10°-20°	157.9	1.7
20°-30°	343.2	3.8
30°-40°	563.3	6.2
40°-50°	1035.5	11.4
50°-60°	2223.8	24.6
60°-70°	2986.9	33.0
70°-80°	1555.3	17.2
80°-90°	147.5	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°	9055.1	100.0
0°-180°	9055.1	100.0

**Coefficient of Utilization**

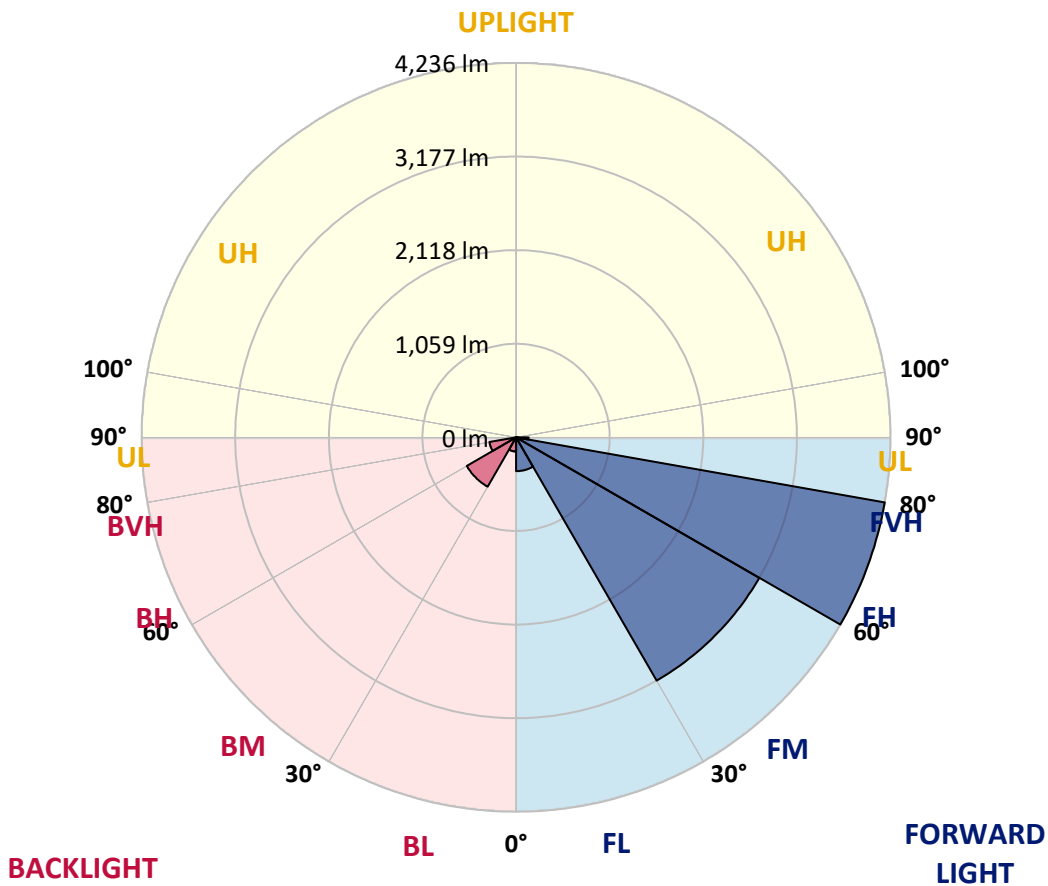


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	382.5	4.2			
FM (30°-60°)	3178.2	35.1			
FH (60°-80°)	4236.0	46.8			G2/5000
FVH (80°-90°)	140.9	1.6			G2/225
BL (0°-30°)	160.3	1.8	B1/500		
BM (30°-60°)	644.4	7.1	B1/1000		
BH (60°-80°)	306.2	3.4	B1/500		G1/500
BVH (80°-90°)	6.6	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°	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
2.5°	480.1	482.2	484.3	491.6	496.8	501.0	502.1	498.9	491.6	484.3	473.8
5°	465.4	467.5	474.9	494.7	514.6	530.3	535.5	532.4	514.6	491.6	467.5
7.5°	464.4	468.6	486.4	528.2	571.1	603.5	611.9	604.6	571.1	525.1	475.9
10°	502.1	509.4	535.5	610.8	689.3	746.8	769.8	738.4	685.1	601.4	520.9
12.5°	600.4	612.9	663.1	773.0	894.3	970.6	1002.0	963.3	879.6	758.3	630.7
15°	755.2	774.0	849.3	1013.5	1156.8	1224.8	1235.3	1213.3	1116.0	982.1	810.6
17.5°	973.8	1001.0	1118.1	1285.5	1389.0	1413.1	1409.9	1386.9	1315.8	1223.8	1061.6
20°	1235.3	1267.7	1382.7	1520.8	1531.3	1503.0	1487.3	1473.7	1449.7	1434.0	1307.4
22.5°	1498.8	1538.6	1658.9	1693.4	1599.3	1517.7	1479.0	1489.4	1525.0	1602.4	1551.1
25°	1761.4	1799.0	1912.0	1818.9	1630.6	1494.7	1445.5	1470.6	1555.3	1722.7	1788.6
27.5°	2067.8	2096.1	2163.0	1904.7	1635.9	1475.8	1427.7	1466.4	1570.0	1798.0	2049.0
30°	2386.8	2403.6	2371.2	1927.7	1618.1	1447.6	1409.9	1466.4	1595.1	1848.2	2244.6
32.5°	2621.1	2624.3	2518.6	1929.8	1608.7	1424.6	1393.2	1460.1	1619.1	1890.0	2433.9
35°	2862.8	2847.1	2659.8	1961.1	1633.8	1432.9	1405.8	1477.9	1656.8	1939.2	2600.2
37.5°	3107.5	3079.3	2817.8	2012.4	1698.6	1523.9	1507.2	1568.9	1717.4	2007.2	2783.3
40°	3358.5	3319.8	2982.0	2089.8	1843.0	1833.5	1891.1	1883.7	1883.7	2094.0	2971.5
42.5°	3665.0	3620.0	3224.7	2308.4	2179.8	2390.0	2546.9	2449.6	2269.7	2293.8	3216.3
45°	4069.8	4031.1	3645.1	2726.8	2708.0	3191.2	3402.5	3210.0	2762.3	2755.0	3625.2
47.5°	4717.2	4709.9	4315.6	3212.1	3354.3	4211.0	4618.9	4248.6	3324.0	3243.5	4399.2
50°	5627.2	5605.2	5151.3	3781.1	4123.1	5474.5	6202.5	5585.4	4002.8	3813.5	5435.8
52.5°	6652.2	6675.2	6321.7	4402.4	4940.0	6880.2	7893.8	7116.6	4740.2	4538.4	6740.1
55°	7617.6	7749.4	7656.3	5129.3	5738.1	8432.4	9751.4	8796.4	5653.3	5487.0	8202.3
57.5°	8372.8	8744.1	9396.8	6185.7	6676.3	10248.2	11825.5	10617.4	6719.2	7027.7	10192.7
60°	8414.6	8906.2	10421.8	8395.8	7883.3	11805.6	13896.4	12396.6	8394.8	9643.6	11752.2
62.5°	7783.9	8311.1	9754.5	9399.9	9198.0	13130.8	14959.1	13693.5	10043.2	11175.9	11289.9
65°	7062.2	7594.6	9009.8	8260.9	9045.3	13074.3	14689.3	13723.9	10192.7	10134.2	10462.6
67.5°	5971.3	6449.3	7730.6	7312.2	8337.2	12443.6	13442.5	12858.9	9390.5	9478.4	9624.8
70°	4358.5	4818.7	6007.9	6028.8	7280.8	11306.7	11550.4	11469.8	8647.9	8741.0	8322.6
72.5°	3148.3	3536.3	4562.4	4944.2	5812.3	9481.5	9313.1	9623.7	7419.9	7785.0	6684.6
75°	2263.4	2554.2	3347.0	4300.9	4607.4	7041.3	6666.9	7453.4	5953.5	6703.5	5025.8
77.5°	918.3	1020.8	1316.8	2897.3	3028.0	4737.1	4081.3	5413.8	4244.4	4404.5	2436.0
80°	37.7	41.8	54.4	1495.7	2076.2	2665.1	2183.9	2894.1	2803.1	1773.9	575.3
82.5°	4.2	4.2	9.4	430.9	908.9	1470.6	1029.2	1667.2	1419.3	752.0	261.5
85°	1.0	1.0	2.1	49.2	213.4	235.3	139.1	511.5	660.0	307.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	9.4	10.5	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°	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
2.5°	473.8	468.6	462.3	456.0	452.9	444.5	441.4	439.3	437.2	438.3	438.3
5°	458.1	446.6	433.0	419.4	412.1	403.7	399.6	397.5	398.5	402.7	402.7
7.5°	456.0	434.1	404.8	387.0	378.6	372.4	368.2	366.1	367.1	372.4	374.4
10°	490.5	451.8	399.6	369.2	359.8	353.5	349.3	346.2	344.1	348.3	349.3
12.5°	564.8	511.5	424.7	367.1	350.4	342.0	338.9	332.6	329.5	331.6	332.6
15°	718.6	626.5	474.9	375.5	342.0	332.6	327.4	322.2	316.9	315.9	316.9
17.5°	919.4	787.6	551.2	395.4	335.7	324.2	316.9	309.6	302.3	301.2	300.2
20°	1168.3	985.3	657.9	426.7	330.5	316.9	306.5	296.0	286.6	283.5	283.5
22.5°	1395.3	1223.8	794.9	465.4	323.2	306.5	293.9	281.4	270.9	265.7	264.6
25°	1672.5	1476.9	959.1	510.4	312.7	292.9	279.3	266.7	256.3	250.0	247.9
27.5°	1951.7	1743.6	1145.3	569.0	300.2	279.3	266.7	255.2	243.7	236.4	234.3
30°	2222.6	2031.2	1354.5	642.2	290.8	265.7	255.2	243.7	233.2	221.7	218.6
32.5°	2513.4	2325.1	1588.8	723.8	283.5	256.3	244.8	234.3	220.7	210.2	205.0
35°	2793.7	2628.5	1847.1	803.3	276.1	247.9	235.3	224.9	210.2	198.7	191.4
37.5°	3076.1	2937.0	2117.0	851.4	265.7	236.4	224.9	216.5	199.8	186.2	177.8
40°	3375.3	3256.0	2408.8	831.5	256.3	223.8	217.6	208.1	189.3	173.6	163.2
42.5°	3703.7	3560.4	2705.9	755.2	247.9	213.4	207.1	197.7	179.9	161.1	147.5
45°	4116.8	3894.1	2949.6	640.1	252.1	202.9	190.4	188.3	171.5	147.5	130.7
47.5°	4827.0	4406.6	3138.9	565.9	280.3	191.4	176.8	182.0	164.2	133.9	115.1
50°	5913.8	5255.9	3315.6	560.6	323.2	186.2	164.2	177.8	156.9	120.3	101.5
52.5°	6949.3	6118.8	3428.6	606.6	360.9	199.8	151.7	172.6	151.7	110.9	92.0
55°	7939.8	6616.7	3226.7	640.1	396.4	240.6	142.2	164.2	145.4	105.6	88.9
57.5°	9007.7	6838.4	2540.6	708.1	421.5	275.1	144.3	151.7	137.0	102.5	87.9
60°	9326.7	6554.9	1533.4	797.0	407.9	285.5	160.0	134.9	125.5	96.2	84.7
62.5°	8830.9	5882.4	904.7	725.9	396.4	269.9	183.0	124.5	114.0	87.9	78.4
65°	8089.3	4969.3	589.9	612.9	420.5	240.6	194.5	119.2	103.5	79.5	69.0
67.5°	7242.1	4002.8	413.1	361.9	388.0	216.5	164.2	118.2	93.1	66.9	56.5
70°	6100.0	2997.7	290.8	239.5	323.2	192.5	127.6	115.1	81.6	54.4	43.9
72.5°	4713.0	1876.4	216.5	154.8	230.1	156.9	101.5	97.3	65.9	45.0	33.5
75°	3475.7	1070.0	152.7	111.9	151.7	119.2	75.3	69.0	56.5	42.9	30.3
77.5°	1814.7	535.5	95.2	85.8	86.8	74.3	54.4	50.2	52.3	42.9	28.2
80°	348.3	106.7	57.5	62.8	47.1	47.1	39.7	41.8	46.0	34.5	24.1
82.5°	145.4	23.0	31.4	35.6	29.3	32.4	32.4	33.5	32.4	25.1	17.8
85°	0.0	0.0	13.6	14.6	19.9	19.9	16.7	16.7	16.7	14.6	10.5
87.5°	0.0	0.0	0.0	0.0	1.0	3.1	6.3	7.3	8.4	6.3	4.2
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°	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
2.5°	437.2	435.1	438.3	440.3	442.4	442.4	440.3	438.3	435.1	438.3	435.1
5°	403.7	406.9	412.1	414.2	416.3	412.1	410.0	403.7	398.5	399.6	397.5
7.5°	377.6	380.7	387.0	391.2	391.2	389.1	382.8	376.5	368.2	368.2	367.1
10°	353.5	357.7	365.0	370.3	372.4	370.3	364.0	355.6	348.3	348.3	345.2
12.5°	333.7	338.9	347.3	354.6	356.7	354.6	348.3	339.9	331.6	331.6	329.5
15°	316.9	323.2	332.6	341.0	344.1	341.0	333.7	323.2	314.8	315.9	312.7
17.5°	301.2	306.5	319.0	328.4	331.6	328.4	319.0	305.4	297.0	299.1	297.0
20°	283.5	289.7	302.3	312.7	315.9	312.7	302.3	287.6	279.3	279.3	280.3
22.5°	264.6	270.9	283.5	290.8	295.0	291.8	281.4	267.8	259.4	259.4	260.4
25°	247.9	251.0	260.4	267.8	268.8	265.7	257.3	246.8	240.6	243.7	244.8
27.5°	232.2	232.2	236.4	240.6	239.5	236.4	233.2	224.9	223.8	227.0	230.1
30°	215.5	210.2	208.1	205.0	204.0	202.9	206.1	206.1	208.1	212.3	215.5
32.5°	200.8	190.4	180.9	171.5	166.3	170.5	178.9	186.2	193.5	199.8	202.9
35°	184.1	167.4	151.7	139.1	130.7	137.0	150.6	164.2	176.8	185.1	190.4
37.5°	167.4	143.3	124.5	108.8	102.5	107.7	122.4	141.2	160.0	170.5	177.8
40°	149.6	119.2	97.3	84.7	78.4	83.7	98.3	117.1	142.2	155.8	165.3
42.5°	131.8	98.3	78.4	65.9	62.8	65.9	77.4	96.2	123.4	140.2	152.7
45°	114.0	81.6	62.8	53.3	50.2	53.3	62.8	78.4	105.6	124.5	139.1
47.5°	98.3	69.0	52.3	43.9	41.8	45.0	52.3	65.9	88.9	107.7	124.5
50°	85.8	60.7	45.0	37.7	35.6	38.7	45.0	55.4	75.3	92.0	109.8
52.5°	77.4	56.5	39.7	32.4	31.4	33.5	38.7	47.1	63.8	78.4	95.2
55°	75.3	56.5	36.6	29.3	28.2	30.3	34.5	40.8	55.4	68.0	82.6
57.5°	77.4	60.7	34.5	25.1	24.1	26.1	30.3	35.6	48.1	58.6	72.2
60°	77.4	61.7	30.3	19.9	18.8	20.9	25.1	31.4	42.9	51.3	62.8
62.5°	70.1	56.5	25.1	15.7	13.6	15.7	20.9	26.1	37.7	46.0	55.4
65°	60.7	48.1	20.9	11.5	9.4	11.5	16.7	22.0	32.4	39.7	50.2
67.5°	49.2	36.6	15.7	8.4	6.3	8.4	12.6	17.8	27.2	34.5	45.0
70°	36.6	26.1	12.6	7.3	6.3	7.3	11.5	16.7	24.1	31.4	41.8
72.5°	27.2	17.8	10.5	7.3	5.2	7.3	10.5	15.7	23.0	30.3	39.7
75°	23.0	14.6	9.4	6.3	5.2	6.3	9.4	14.6	20.9	28.2	37.7
77.5°	22.0	13.6	8.4	5.2	4.2	5.2	8.4	12.6	18.8	26.1	36.6
80°	18.8	11.5	7.3	4.2	3.1	4.2	7.3	10.5	14.6	19.9	28.2
82.5°	14.6	9.4	5.2	2.1	1.0	2.1	5.2	6.3	9.4	11.5	16.7
85°	9.4	5.2	2.1	0.0	0.0	0.0	2.1	4.2	4.2	5.2	8.4
87.5°	4.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	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°	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
2.5°	441.4	442.4	444.5	447.7	455.0	461.3	467.5	475.9	480.1	480.1
5°	399.6	400.6	401.6	405.8	416.3	424.7	438.3	455.0	463.4	465.4
7.5°	367.1	369.2	371.3	374.4	384.9	396.4	414.2	445.6	461.3	464.4
10°	348.3	351.4	355.6	361.9	371.3	383.9	414.2	470.7	496.8	502.1
12.5°	333.7	338.9	343.1	350.4	361.9	381.8	442.4	541.8	587.8	600.4
15°	319.0	325.3	331.6	338.9	351.4	389.1	496.8	669.4	745.8	755.2
17.5°	304.4	311.7	320.1	328.4	344.1	406.9	582.6	846.2	952.9	973.8
20°	287.6	297.0	308.6	319.0	336.8	435.1	701.8	1056.4	1190.3	1235.3
22.5°	269.9	281.4	295.0	308.6	328.4	469.6	846.2	1282.3	1469.6	1498.8
25°	255.2	266.7	279.3	292.9	314.8	511.5	1020.8	1562.6	1733.1	1761.4
27.5°	241.6	253.1	264.6	277.2	301.2	565.9	1231.1	1860.7	2038.5	2067.8
30°	227.0	240.6	252.1	264.6	288.7	632.8	1473.7	2191.3	2359.7	2386.8
32.5°	214.4	228.0	239.5	252.1	279.3	706.0	1728.9	2484.1	2621.1	2621.1
35°	204.0	218.6	227.0	243.7	271.9	753.1	1970.6	2763.4	2866.9	2862.8
37.5°	192.5	210.2	216.5	228.0	262.5	758.3	2197.5	3058.3	3134.7	3107.5
40°	180.9	199.8	209.2	215.5	252.1	715.4	2446.5	3329.2	3394.1	3358.5
42.5°	170.5	185.1	198.7	206.1	245.8	640.1	2646.2	3619.0	3696.4	3665.0
45°	160.0	172.6	180.9	194.5	250.0	587.8	2817.8	3956.8	4092.8	4069.8
47.5°	149.6	160.0	165.3	186.2	278.2	563.8	2922.4	4479.8	4736.0	4717.2
50°	138.1	150.6	150.6	184.1	320.1	572.1	3013.4	5237.1	5633.5	5627.2
52.5°	126.6	140.2	138.1	199.8	352.5	610.8	3116.9	5905.4	6594.7	6652.2
55°	115.1	127.6	129.7	231.2	371.3	644.3	2716.3	6186.8	7415.8	7617.6
57.5°	102.5	109.8	134.9	255.2	365.0	741.6	1860.7	6238.0	7939.8	8372.8
60°	88.9	95.2	152.7	250.0	345.2	685.1	1171.5	5777.8	7865.5	8414.6
62.5°	77.4	87.9	161.1	220.7	351.4	594.1	746.8	4924.3	7157.4	7783.9
65°	68.0	84.7	146.4	199.8	355.6	402.7	504.1	4006.0	6466.0	7062.2
67.5°	60.7	94.1	120.3	177.8	305.4	283.5	346.2	3112.7	5436.8	5971.3
70°	55.4	96.2	98.3	152.7	236.4	182.0	228.0	2095.0	3747.6	4358.5
72.5°	50.2	71.1	74.3	122.4	152.7	110.9	147.5	1198.7	2732.0	3148.3
75°	48.1	48.1	51.3	79.5	84.7	80.5	95.2	715.4	1959.1	2263.4
77.5°	45.0	36.6	32.4	51.3	46.0	57.5	56.5	318.0	849.3	918.3
80°	35.6	26.1	22.0	32.4	31.4	38.7	33.5	26.1	38.7	37.7
82.5°	22.0	16.7	15.7	19.9	17.8	19.9	15.7	4.2	4.2	4.2
85°	10.5	9.4	8.4	8.4	9.4	8.4	6.3	2.1	1.0	1.0
87.5°	5.2	5.2	4.2	3.1	4.2	4.2	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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