

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P675894

Luminaire Tested: **CCW-SA-2C-830-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675894  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-830-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/  
SLL distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

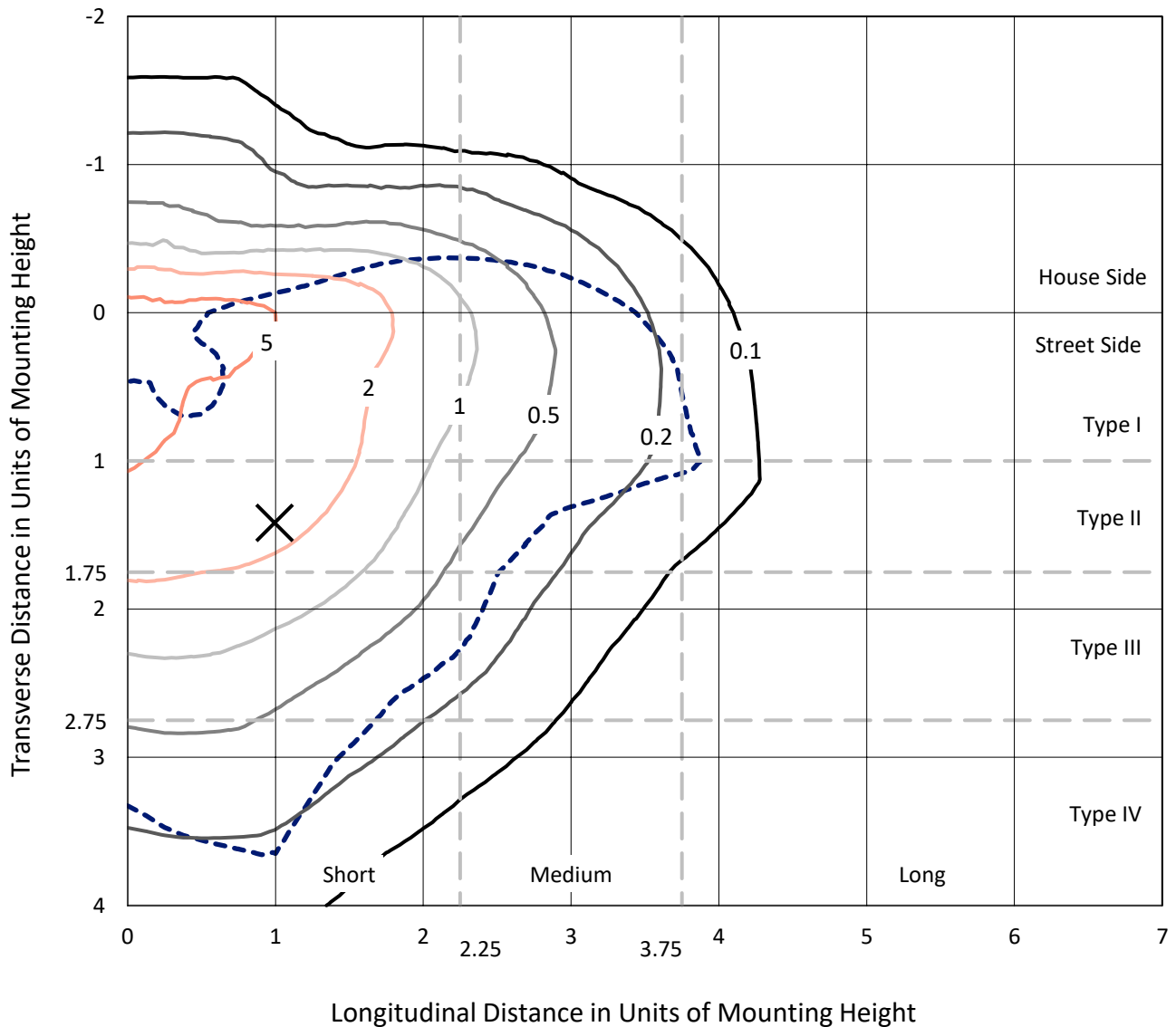
Lumens per Lamp: N/A  
Luminaire Lumens: 5961.1 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

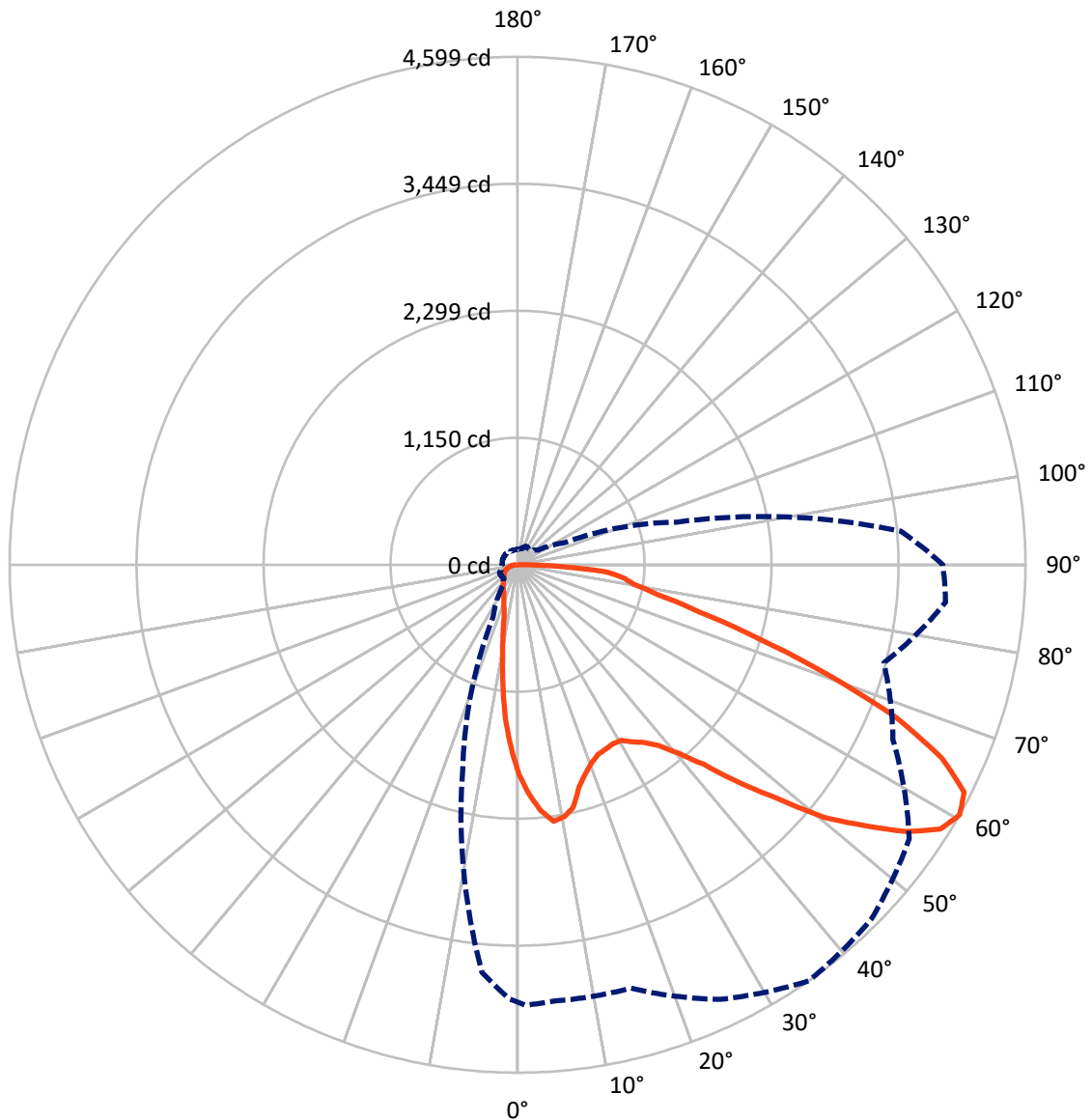
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1134.5	0.0	1134.5
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	4826.6	0.0	4826.6
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	5961.1	0.0	5961.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.9	2.5
10°-20°	312.3	5.2
20°-30°	456.9	7.7
30°-40°	643.8	10.8
40°-50°	884.7	14.8
50°-60°	1205.8	20.2
60°-70°	1319.7	22.1
70°-80°	761.9	12.8
80°-90°	228.2	3.8
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°	5961.1	100.0
0°-180°	5961.1	100.0

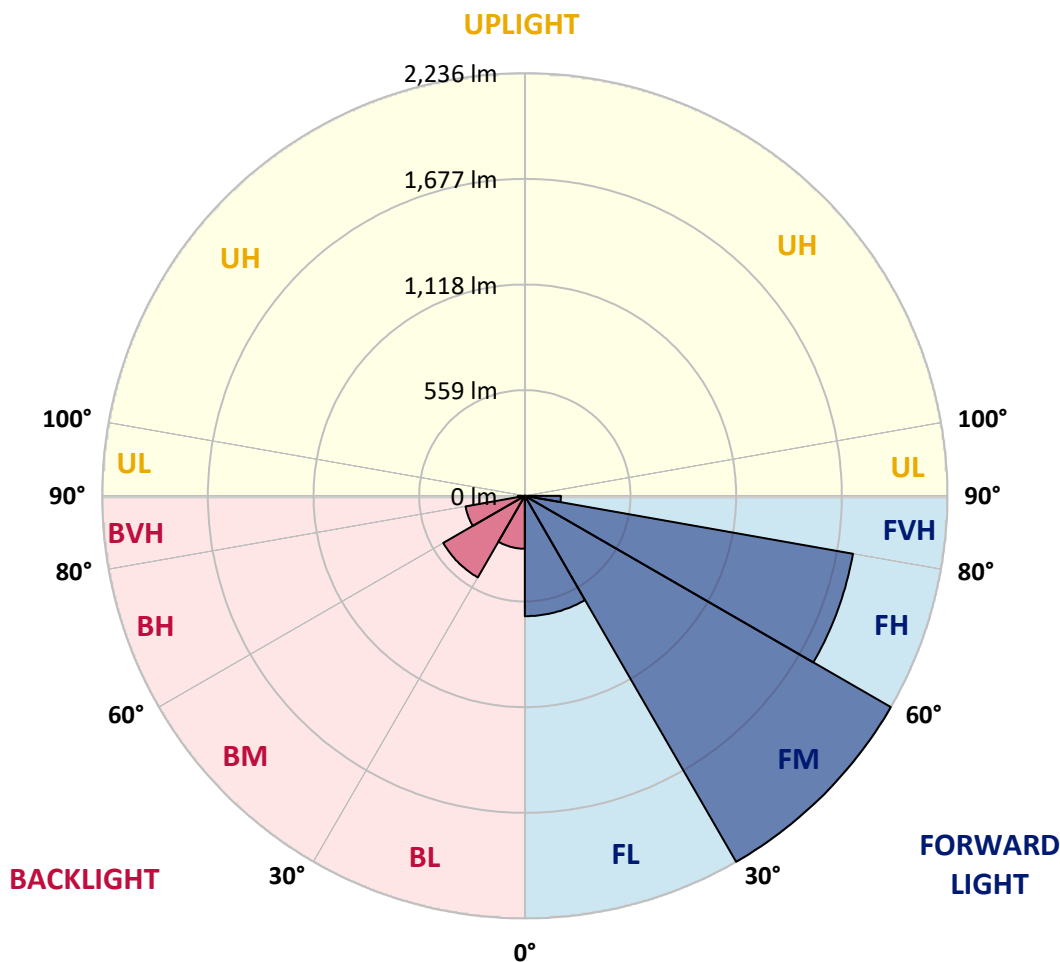


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.8	10.7			
FM (30°-60°)	2235.9	37.5			
FH (60°-80°)	1762.9	29.6			G1/1800
FVH (80°-90°)	191.0	3.2			G2/225
BL (0°-30°)	280.3	4.7	B1/500		
BM (30°-60°)	498.4	8.4	B1/1000		
BH (60°-80°)	318.6	5.3	B1/500		G1/500
BVH (80°-90°)	37.2	0.6			G1/100
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°	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9
2.5°	2038.8	2030.9	2038.8	2067.9	2075.8	2089.0	2089.0	2070.5	2036.2	2020.3	1993.8
5°	2083.8	2070.5	2136.6	2197.5	2245.1	2239.8	2194.8	2157.8	2089.0	1985.9	1888.1
7.5°	1993.8	2007.1	2054.7	2213.3	2324.4	2345.5	2274.1	2200.1	2052.0	1909.2	1777.0
10°	1824.6	1843.1	1946.2	2110.2	2284.7	2319.1	2274.1	2184.2	2007.1	1829.9	1676.5
12.5°	1742.6	1784.9	1845.8	2044.1	2168.4	2250.3	2229.2	2171.0	1972.7	1763.8	1615.7
15°	1742.6	1753.2	1843.1	2009.7	2081.1	2083.8	2091.7	2102.3	1983.3	1792.9	1594.5
17.5°	1798.2	1827.2	1903.9	2007.1	2020.3	1988.6	1988.6	2033.5	2004.4	1874.8	1671.2
20°	1933.0	1922.4	2022.9	2065.2	1993.8	1914.5	1906.6	1983.3	2028.2	1962.1	1811.4
22.5°	2067.9	2115.5	2197.5	2102.3	1970.0	1864.3	1853.7	1948.9	2099.6	2112.8	1972.7
25°	2271.5	2319.1	2361.4	2245.1	1967.4	1851.0	1859.0	1933.0	2186.9	2327.0	2242.4
27.5°	2491.0	2520.1	2580.9	2401.1	2030.9	1835.2	1843.1	1954.2	2268.9	2467.2	2454.0
30°	2615.3	2647.0	2633.8	2430.2	2073.2	1845.8	1824.6	1983.3	2223.9	2467.2	2591.5
32.5°	2736.9	2718.4	2710.5	2477.8	2126.1	1911.9	1859.0	2044.1	2250.3	2506.8	2768.6
35°	2885.0	2858.5	2837.4	2570.3	2213.3	1975.3	1951.5	2123.4	2308.5	2588.8	2911.4
37.5°	3048.9	3048.9	2945.8	2639.1	2316.5	2078.5	2052.0	2237.1	2401.1	2639.1	3107.1
40°	3242.0	3249.9	3067.5	2731.6	2432.8	2242.4	2234.5	2385.2	2491.0	2713.1	3294.9
42.5°	3384.8	3390.1	3173.2	2766.0	2567.7	2469.8	2504.2	2623.2	2594.1	2779.2	3308.1
45°	3482.6	3456.2	3247.3	2863.8	2715.8	2810.9	2821.5	2855.9	2729.0	2818.9	3361.0
47.5°	3530.2	3524.9	3279.0	2977.5	3027.8	3157.4	3218.2	3170.6	2853.3	2776.6	3361.0
50°	3577.8	3532.9	3308.1	3133.6	3331.9	3593.7	3580.5	3493.2	3025.1	2829.5	3310.7
52.5°	3609.5	3569.9	3366.3	3273.7	3622.8	3918.9	3971.8	3810.5	3226.1	2927.3	3334.5
55°	3723.3	3691.5	3540.8	3464.1	3958.6	4262.7	4270.6	4045.9	3437.7	3088.6	3490.5
57.5°	3860.8	3879.3	3781.4	3733.8	4215.1	4513.9	4484.8	4220.4	3617.5	3284.3	3670.4
60°	3958.6	3987.7	3963.9	3969.2	4342.0	4598.5	4532.4	4328.8	3749.7	3432.4	3889.8
62.5°	3905.7	3963.9	4061.7	4040.6	4347.3	4537.7	4445.2	4186.0	3765.6	3625.4	4056.4
65°	3760.3	3765.6	3956.0	4072.3	4109.3	4223.0	4101.4	3887.2	3601.6	3744.4	4032.6
67.5°	3387.4	3429.7	3601.6	3829.0	3673.0	3699.5	3688.9	3379.5	3353.0	3662.4	3850.2
70°	2990.8	3019.9	3207.6	3474.7	3101.8	2977.5	3001.3	2771.3	2879.7	3408.6	3482.6
72.5°	2472.5	2491.0	2705.2	2940.5	2488.3	2266.2	2321.7	2134.0	2287.4	2982.8	2937.9
75°	1866.9	1901.3	2067.9	2345.5	1832.5	1689.7	1745.3	1668.6	1811.4	2456.6	2279.4
77.5°	1327.5	1301.0	1507.3	1835.2	1377.7	1293.1	1298.4	1311.6	1465.0	2070.5	1636.9
80°	904.4	912.3	1097.4	1346.0	1081.5	1068.3	1055.1	1160.9	1229.6	1639.5	1190.0
82.5°	536.8	536.8	740.4	957.3	854.1	962.5	901.7	996.9	962.5	1205.8	780.1
85°	251.2	251.2	380.8	690.2	661.1	793.3	674.3	753.6	711.3	840.9	351.7
87.5°	42.3	37.0	76.7	338.5	272.4	309.4	121.6	401.9	446.9	587.0	87.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9
2.5°	1964.8	1946.2	1909.2	1861.6	1822.0	1771.7	1755.9	1721.5	1673.9	1668.6	1647.4
5°	1851.0	1787.6	1708.3	1610.4	1544.3	1475.6	1417.4	1383.0	1343.3	1338.0	1327.5
7.5°	1726.8	1647.4	1515.2	1398.9	1285.2	1176.7	1123.9	1057.7	1012.8	978.4	962.5
10°	1610.4	1536.4	1372.4	1213.8	1113.3	1041.9	978.4	909.7	854.1	811.8	796.0
12.5°	1533.7	1446.5	1269.3	1118.6	1044.5	962.5	891.1	817.1	745.7	690.2	661.1
15°	1499.3	1417.4	1237.6	1071.0	962.5	848.8	766.9	692.8	605.6	565.9	552.7
17.5°	1581.3	1459.7	1227.0	1015.4	862.1	732.5	632.0	552.7	489.2	449.5	433.7
20°	1687.1	1536.4	1245.5	949.3	766.9	621.4	510.4	425.7	383.4	354.3	351.7
22.5°	1822.0	1650.1	1274.6	901.7	661.1	499.8	399.3	349.1	320.0	317.3	312.0
25°	2062.6	1856.3	1322.2	838.3	576.5	412.5	341.1	312.0	298.8	290.9	296.2
27.5°	2268.9	1991.2	1356.6	798.6	542.1	388.7	330.5	298.8	285.6	282.9	285.6
30°	2390.5	2115.5	1346.0	724.6	473.3	370.2	351.7	341.1	314.7	293.5	293.5
32.5°	2501.6	2194.8	1343.3	658.4	404.6	309.4	293.5	285.6	301.5	312.0	304.1
35°	2654.9	2319.1	1335.4	621.4	375.5	285.6	259.1	238.0	227.4	222.1	230.1
37.5°	2818.9	2403.7	1314.2	616.1	359.6	272.4	251.2	230.1	219.5	214.2	211.5
40°	2998.7	2493.6	1290.4	589.7	351.7	264.4	243.3	224.8	211.5	203.6	201.0
42.5°	3115.1	2565.0	1266.6	576.5	335.8	259.1	235.3	219.5	206.3	195.7	195.7
45°	3181.2	2649.6	1242.8	563.2	317.3	261.8	235.3	214.2	198.3	193.0	187.7
47.5°	3210.2	2713.1	1234.9	542.1	301.5	251.2	230.1	208.9	193.0	182.5	179.8
50°	3286.9	2848.0	1264.0	526.2	282.9	240.6	243.3	206.3	190.4	177.2	174.5
52.5°	3331.9	2956.4	1327.5	502.4	269.7	227.4	238.0	201.0	182.5	169.2	169.2
55°	3495.8	3136.2	1396.2	483.9	253.9	208.9	219.5	190.4	169.2	161.3	161.3
57.5°	3704.7	3326.6	1454.4	476.0	243.3	195.7	195.7	185.1	161.3	150.7	148.1
60°	3850.2	3482.6	1488.8	470.7	232.7	182.5	174.5	185.1	153.4	142.8	140.2
62.5°	3866.0	3392.7	1454.4	468.1	230.1	169.2	158.7	177.2	145.4	134.9	129.6
65°	3765.6	3210.2	1359.2	457.5	227.4	156.0	148.1	153.4	134.9	126.9	121.6
67.5°	3564.6	2914.1	1221.7	452.2	224.8	145.4	134.9	132.2	124.3	116.4	111.1
70°	3096.5	2528.0	1060.4	428.4	219.5	137.5	121.6	119.0	111.1	105.8	103.1
72.5°	2599.4	2067.9	875.3	396.7	208.9	124.3	111.1	105.8	103.1	95.2	92.6
75°	1991.2	1591.9	700.8	351.7	182.5	111.1	97.8	92.6	89.9	84.6	82.0
77.5°	1398.9	1184.7	518.3	285.6	153.4	100.5	87.3	82.0	79.3	71.4	71.4
80°	949.3	830.3	351.7	198.3	119.0	82.0	76.7	71.4	66.1	60.8	60.8
82.5°	589.7	581.8	253.9	129.6	87.3	66.1	60.8	60.8	52.9	47.6	47.6
85°	269.7	357.0	177.2	89.9	66.1	50.2	50.2	47.6	42.3	34.4	34.4
87.5°	84.6	119.0	92.6	39.7	37.0	29.1	29.1	26.4	26.4	21.2	21.2
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°	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9
2.5°	1668.6	1665.9	1665.9	1655.4	1681.8	1681.8	1697.7	1684.5	1692.4	1695.0	1716.2
5°	1324.8	1346.0	1361.8	1393.6	1412.1	1420.0	1420.0	1441.2	1433.2	1449.1	1480.8
7.5°	970.5	996.9	1044.5	1084.2	1115.9	1126.5	1123.9	1129.1	1137.1	1118.6	1123.9
10°	785.4	766.9	782.7	819.8	848.8	883.2	856.8	854.1	862.1	854.1	870.0
12.5°	655.8	634.6	621.4	621.4	642.6	658.4	650.5	663.7	692.8	700.8	719.3
15°	531.5	513.0	502.4	489.2	510.4	515.6	523.6	542.1	563.2	573.8	595.0
17.5°	425.7	425.7	425.7	415.2	423.1	431.0	433.7	457.5	460.1	470.7	478.6
20°	349.1	357.0	370.2	375.5	383.4	383.4	378.1	391.4	380.8	388.7	394.0
22.5°	314.7	325.3	330.5	333.2	343.8	346.4	333.2	335.8	338.5	330.5	333.2
25°	296.2	301.5	296.2	298.8	301.5	296.2	298.8	304.1	301.5	306.7	304.1
27.5°	288.2	282.9	280.3	277.7	277.7	272.4	275.0	275.0	280.3	282.9	282.9
30°	288.2	280.3	269.7	261.8	261.8	253.9	259.1	264.4	267.1	272.4	272.4
32.5°	296.2	280.3	261.8	253.9	245.9	240.6	245.9	253.9	264.4	267.1	269.7
35°	235.3	243.3	240.6	230.1	227.4	227.4	224.8	224.8	216.8	216.8	214.2
37.5°	211.5	208.9	214.2	216.8	219.5	211.5	211.5	201.0	198.3	201.0	201.0
40°	198.3	198.3	198.3	206.3	208.9	203.6	195.7	190.4	190.4	190.4	193.0
42.5°	193.0	187.7	185.1	190.4	198.3	193.0	185.1	182.5	182.5	185.1	185.1
45°	185.1	182.5	179.8	177.2	187.7	179.8	177.2	174.5	174.5	174.5	177.2
47.5°	177.2	174.5	169.2	169.2	171.9	169.2	166.6	166.6	166.6	171.9	171.9
50°	171.9	169.2	164.0	164.0	164.0	164.0	161.3	161.3	161.3	164.0	166.6
52.5°	164.0	161.3	158.7	156.0	156.0	156.0	156.0	156.0	156.0	158.7	161.3
55°	156.0	153.4	150.7	150.7	153.4	153.4	150.7	153.4	150.7	153.4	156.0
57.5°	148.1	145.4	142.8	145.4	148.1	145.4	145.4	145.4	145.4	145.4	148.1
60°	137.5	137.5	137.5	137.5	142.8	142.8	142.8	142.8	137.5	140.2	142.8
62.5°	132.2	129.6	129.6	132.2	134.9	134.9	137.5	134.9	132.2	134.9	134.9
65°	121.6	121.6	121.6	124.3	124.3	126.9	126.9	126.9	124.3	126.9	126.9
67.5°	113.7	113.7	113.7	113.7	119.0	119.0	119.0	119.0	116.4	116.4	119.0
70°	100.5	103.1	100.5	105.8	111.1	108.4	111.1	111.1	108.4	105.8	111.1
72.5°	92.6	92.6	92.6	92.6	100.5	100.5	100.5	103.1	100.5	97.8	100.5
75°	82.0	82.0	82.0	84.6	89.9	89.9	89.9	89.9	89.9	87.3	87.3
77.5°	71.4	74.0	71.4	74.0	79.3	76.7	79.3	82.0	79.3	76.7	76.7
80°	60.8	60.8	60.8	63.5	66.1	66.1	66.1	68.8	66.1	63.5	63.5
82.5°	47.6	47.6	50.2	50.2	52.9	52.9	52.9	55.5	52.9	50.2	50.2
85°	37.0	37.0	37.0	39.7	39.7	42.3	42.3	45.0	45.0	42.3	42.3
87.5°	23.8	21.2	23.8	23.8	26.4	26.4	23.8	21.2	23.8	21.2	18.5
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°	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9	1903.9
2.5°	1737.3	1784.9	1819.3	1843.1	1877.5	1943.6	1970.0	2017.6	2030.9	2038.8
5°	1494.1	1544.3	1618.3	1671.2	1732.1	1856.3	1951.5	2022.9	2054.7	2083.8
7.5°	1171.4	1237.6	1314.2	1383.0	1483.5	1636.9	1761.1	1909.2	1964.8	1993.8
10°	914.9	975.8	1060.4	1145.0	1285.2	1414.7	1591.9	1726.8	1803.5	1824.6
12.5°	772.2	843.5	944.0	1047.2	1134.4	1282.5	1462.3	1658.0	1729.4	1742.6
15°	655.8	753.6	856.8	962.5	1063.0	1192.6	1385.6	1623.6	1729.4	1742.6
17.5°	542.1	629.4	751.0	864.7	981.1	1158.2	1398.9	1652.7	1758.5	1798.2
20°	431.0	515.6	610.8	753.6	912.3	1100.1	1428.0	1750.6	1890.7	1933.0
22.5°	357.0	394.0	486.6	624.1	811.8	1060.4	1457.0	1903.9	2052.0	2067.9
25°	312.0	338.5	396.7	526.2	732.5	1033.9	1525.8	2081.1	2271.5	2271.5
27.5°	290.9	301.5	341.1	457.5	677.0	1010.1	1594.5	2276.8	2454.0	2491.0
30°	285.6	312.0	333.2	407.2	616.1	944.0	1658.0	2430.2	2612.6	2615.3
32.5°	280.3	275.0	290.9	354.3	542.1	875.3	1710.9	2586.2	2729.0	2736.9
35°	219.5	230.1	256.5	312.0	486.6	825.0	1737.3	2670.8	2877.1	2885.0
37.5°	206.3	219.5	240.6	288.2	449.5	782.7	1745.3	2834.7	3033.1	3048.9
40°	201.0	211.5	227.4	267.1	420.5	729.8	1761.1	3004.0	3263.1	3242.0
42.5°	190.4	203.6	219.5	256.5	396.7	690.2	1763.8	3096.5	3384.8	3384.8
45°	187.7	195.7	214.2	256.5	370.2	655.8	1721.5	3189.1	3524.9	3482.6
47.5°	177.2	193.0	208.9	248.6	338.5	621.4	1671.2	3236.7	3543.4	3530.2
50°	174.5	190.4	216.8	235.3	320.0	605.6	1660.7	3355.7	3580.5	3577.8
52.5°	169.2	185.1	224.8	224.8	296.2	584.4	1710.9	3408.6	3588.4	3609.5
55°	161.3	185.1	208.9	206.3	275.0	558.0	1766.4	3546.1	3728.5	3723.3
57.5°	156.0	179.8	198.3	187.7	251.2	539.4	1848.4	3678.3	3897.8	3860.8
60°	148.1	179.8	177.2	174.5	232.7	523.6	1917.2	3704.7	3934.8	3958.6
62.5°	142.8	187.7	156.0	161.3	216.8	515.6	1888.1	3506.4	3884.6	3905.7
65°	137.5	161.3	142.8	148.1	211.5	499.8	1774.4	3268.4	3667.7	3760.3
67.5°	126.9	132.2	132.2	137.5	206.3	462.8	1541.7	2840.0	3337.2	3387.4
70°	116.4	119.0	119.0	126.9	201.0	420.5	1271.9	2456.6	2895.6	2990.8
72.5°	105.8	105.8	105.8	116.4	185.1	386.1	1047.2	1888.1	2406.4	2472.5
75°	92.6	92.6	92.6	103.1	166.6	351.7	825.0	1404.2	1771.7	1866.9
77.5°	82.0	82.0	79.3	92.6	145.4	285.6	595.0	991.6	1248.1	1327.5
80°	68.8	66.1	66.1	74.0	113.7	206.3	383.4	700.8	870.0	904.4
82.5°	55.5	52.9	50.2	55.5	82.0	129.6	238.0	489.2	558.0	536.8
85°	52.9	55.5	45.0	42.3	58.2	84.6	150.7	301.5	251.2	251.2
87.5°	21.2	18.5	18.5	15.9	29.1	31.7	66.1	55.5	42.3	42.3
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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