

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: P677489

Luminaire Tested: **CCW-SA-2C-835-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677489  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-835-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SLR distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

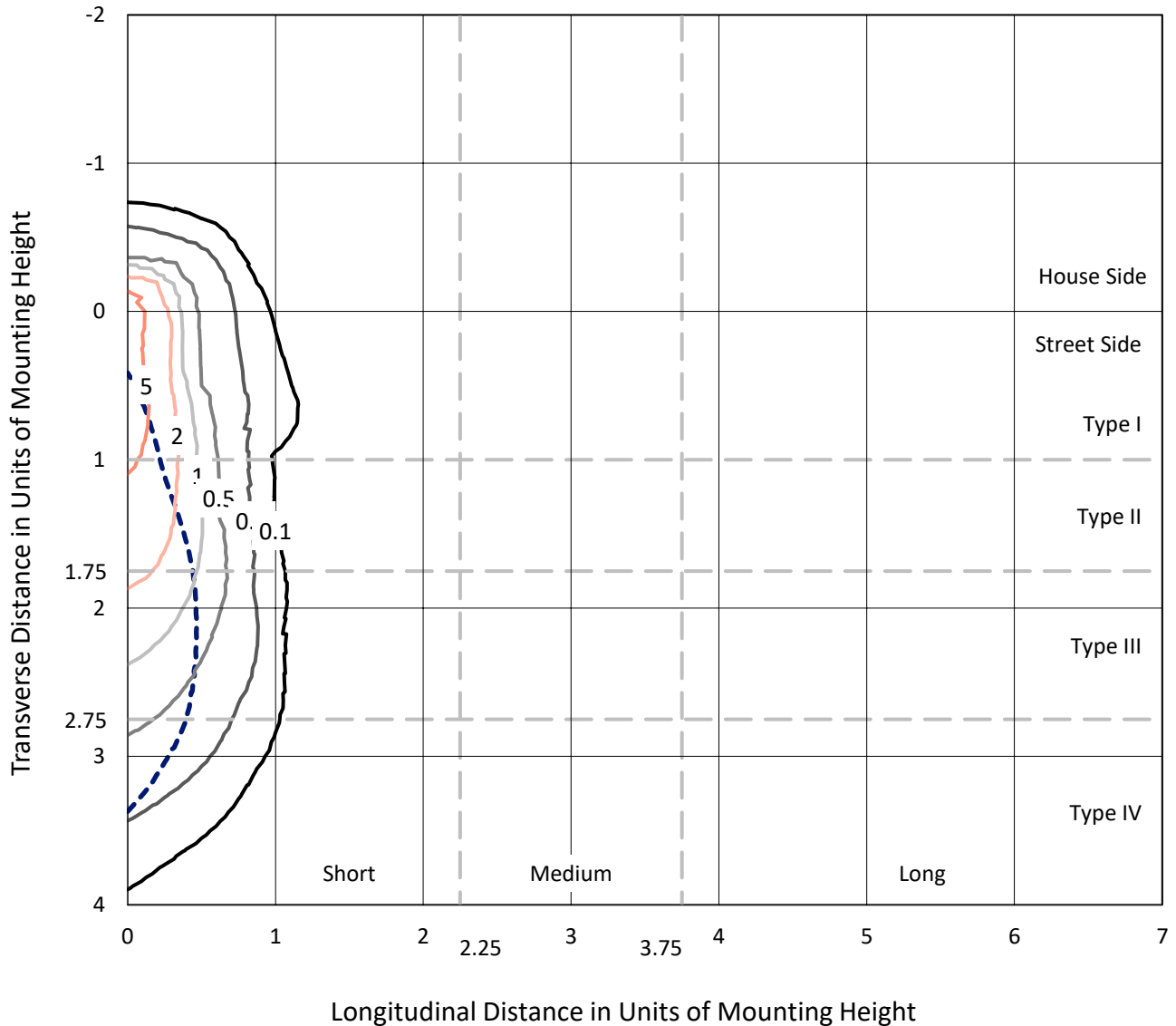
Lumens per Lamp: N/A  
Luminaire Lumens: 5354 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

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

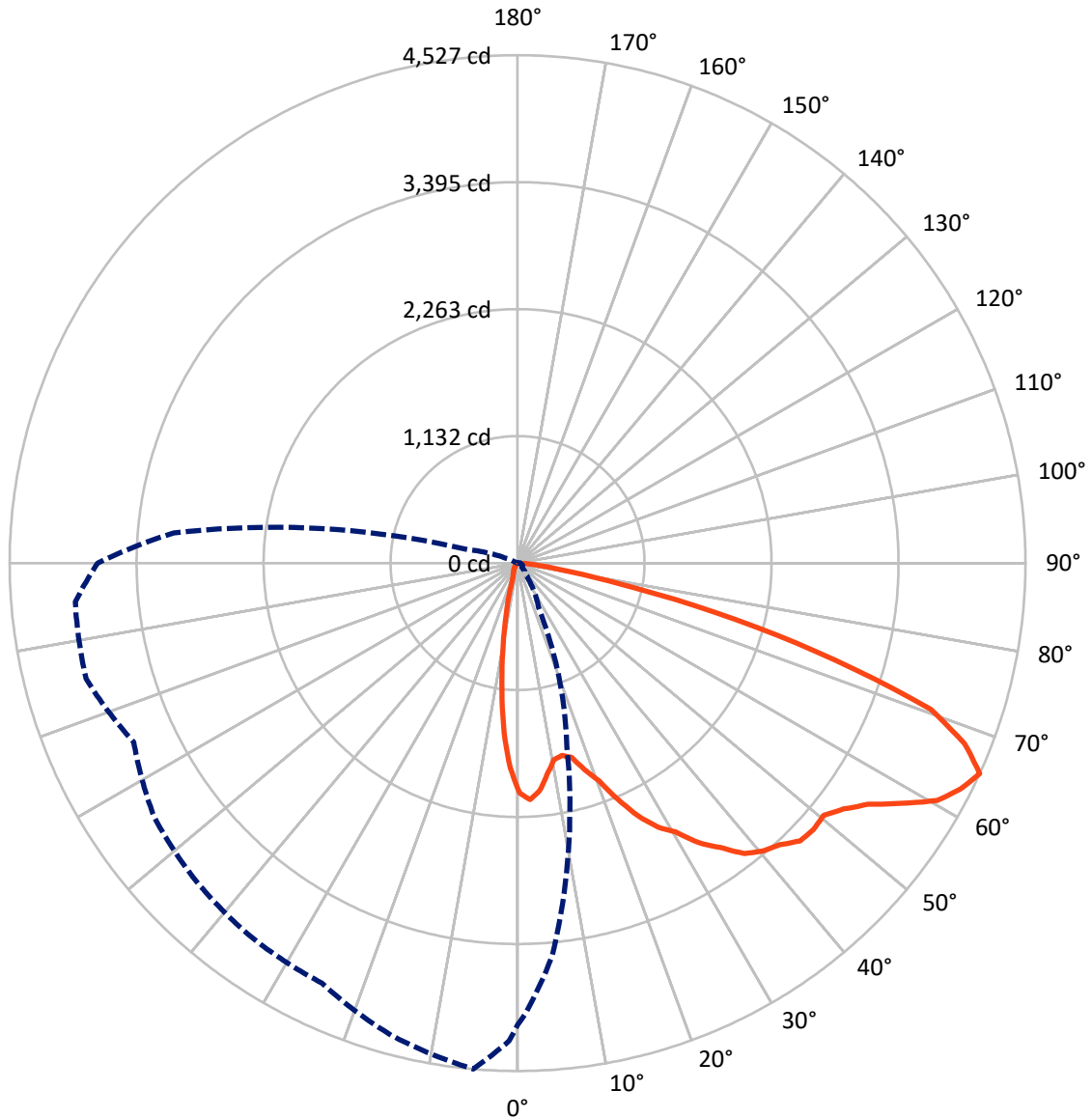
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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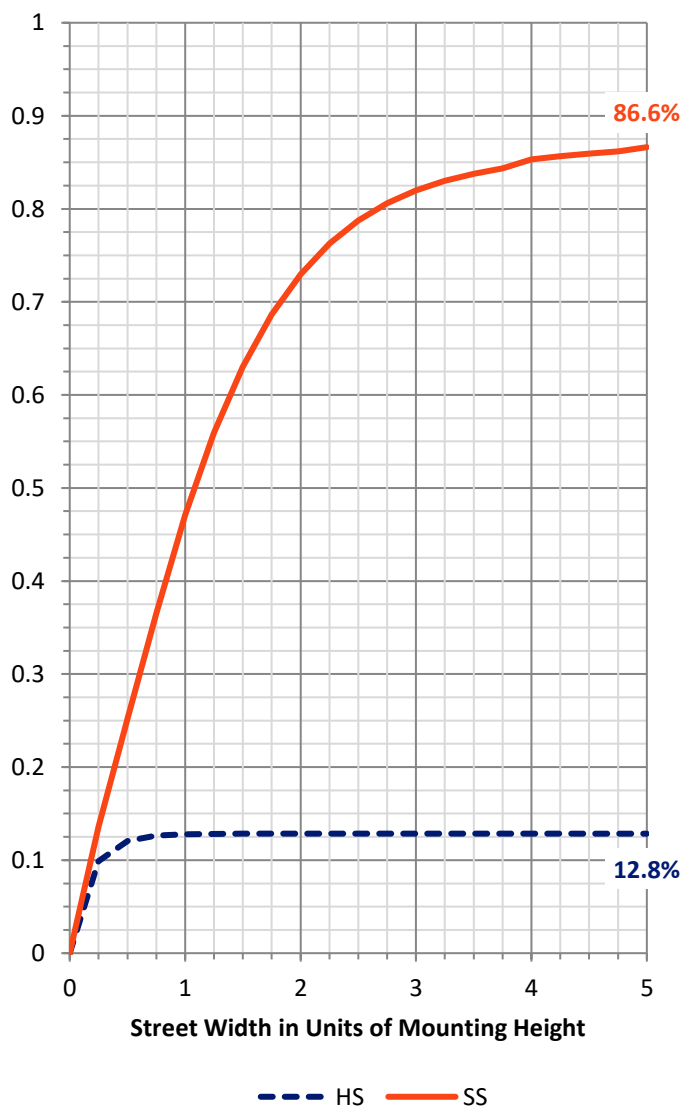
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	695.1	0.0	695.1
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	4658.8	0.0	4658.8
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	5354.0	0.0	5354.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.0	2.9
10°-20°	300.2	5.6
20°-30°	418.1	7.8
30°-40°	594.1	11.1
40°-50°	823.9	15.4
50°-60°	1122.6	21.0
60°-70°	1234.2	23.1
70°-80°	606.6	11.3
80°-90°	99.1	1.9
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°	5354.0	100.0
0°-180°	5354.0	100.0

**Coefficient of Utilization**



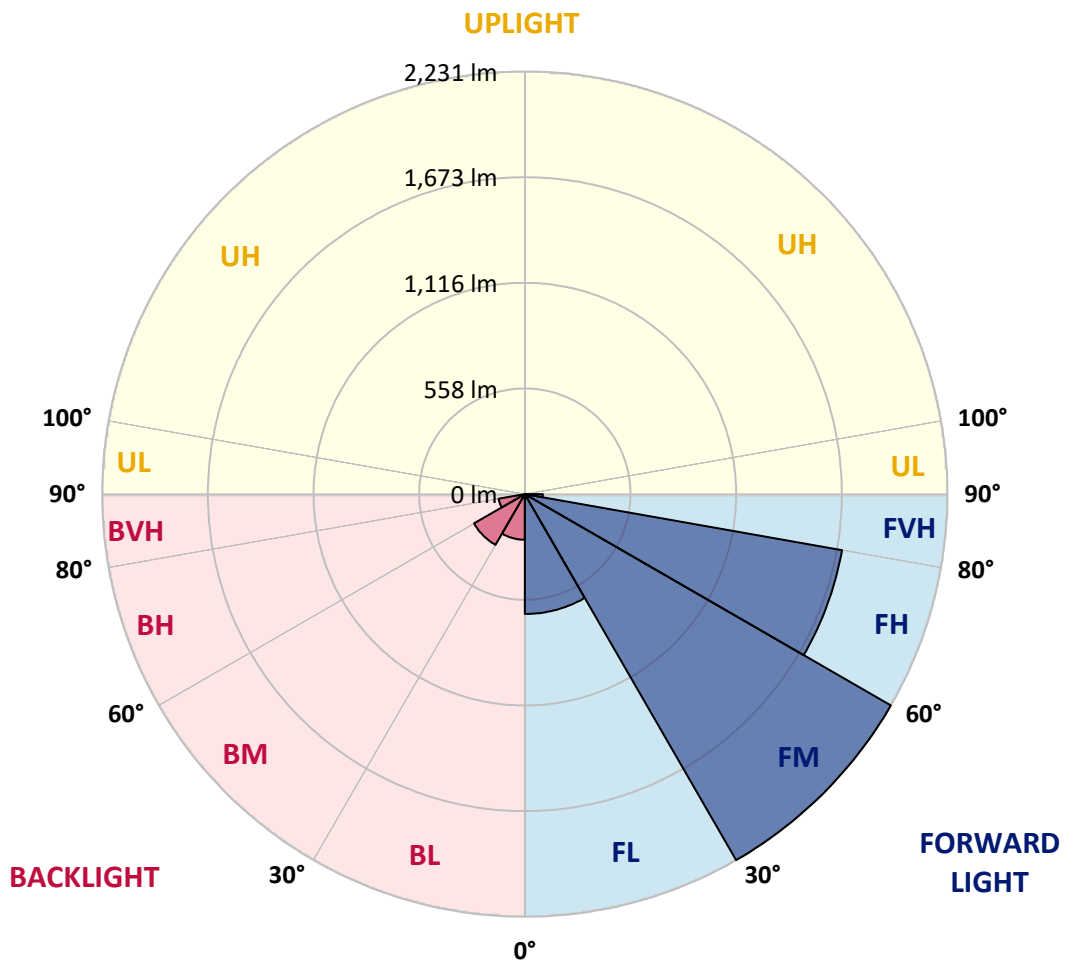
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	632.7	11.8			
FM (30°-60°)	2231.2	41.7			
FH (60°-80°)	1700.3	31.8			G1/1800
FVH (80°-90°)	94.6	1.8			G1/100
BL (0°-30°)	240.7	4.5	B1/500		
BM (30°-60°)	309.5	5.8	B1/1000		
BH (60°-80°)	140.5	2.6	B1/500		G1/500
BVH (80°-90°)	4.5	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8
2.5°	2088.7	2113.2	2090.1	2009.3	1994.9	1955.9	1896.7	1892.4	1830.3	1837.5	1804.3
5°	1963.1	1987.6	1938.6	1831.7	1732.1	1652.8	1605.1	1520.0	1501.2	1459.3	1459.3
7.5°	1834.6	1833.2	1749.5	1660.0	1511.3	1365.5	1299.1	1176.4	1104.2	1065.3	1027.7
10°	1727.8	1704.7	1652.8	1468.0	1306.3	1154.8	1072.5	991.7	916.6	851.6	786.7
12.5°	1652.8	1667.2	1584.9	1384.3	1175.0	1069.6	981.5	896.4	806.9	733.3	661.1
15°	1691.7	1668.6	1571.9	1365.5	1153.3	1009.0	892.1	788.1	688.5	591.8	537.0
17.5°	1813.0	1753.8	1639.8	1365.5	1108.6	916.6	775.1	652.4	545.6	459.0	391.2
20°	1976.1	1908.2	1785.6	1416.0	1075.4	848.8	655.3	500.9	389.7	308.9	256.9
22.5°	2143.5	2090.1	1905.4	1436.2	1036.4	757.8	516.8	362.3	259.8	207.9	181.9
25°	2344.2	2269.1	2067.0	1517.1	978.7	669.8	407.1	252.6	193.4	166.0	150.1
27.5°	2504.4	2491.4	2218.6	1566.1	935.4	597.6	321.9	200.6	160.2	140.0	129.9
30°	2706.5	2635.7	2403.3	1664.3	886.3	515.3	268.5	180.4	147.2	125.6	118.4
32.5°	2827.7	2794.5	2500.1	1719.2	831.4	447.5	231.0	158.8	134.2	118.4	111.1
35°	3003.8	2937.4	2638.6	1753.8	802.6	408.5	207.9	144.3	112.6	96.7	88.1
37.5°	3200.1	3175.6	2804.6	1752.4	760.7	385.4	192.0	134.2	106.8	89.5	79.4
40°	3400.8	3301.2	2905.7	1792.8	739.0	368.1	180.4	128.5	101.0	85.2	72.2
42.5°	3550.9	3436.9	3022.6	1778.3	713.1	337.8	176.1	119.8	96.7	77.9	66.4
45°	3591.3	3550.9	3128.0	1774.0	694.3	313.2	168.9	118.4	93.8	73.6	62.1
47.5°	3669.3	3641.8	3257.9	1781.2	679.9	294.5	151.6	121.3	89.5	69.3	59.2
50°	3703.9	3654.8	3363.2	1798.5	646.7	271.4	135.7	127.0	88.1	67.8	56.3
52.5°	3846.8	3803.5	3507.6	1847.6	619.2	241.1	119.8	121.3	90.9	63.5	53.4
55°	3986.8	3937.7	3729.9	1960.2	580.3	216.5	102.5	106.8	86.6	57.7	47.6
57.5°	4178.8	4098.0	3878.6	2006.4	545.6	183.3	90.9	88.1	80.8	52.0	41.9
60°	4207.7	4240.9	3856.9	1977.5	509.5	161.7	79.4	67.8	66.6	46.2	36.1
62.5°	4304.4	4165.8	3755.9	1911.1	483.6	148.7	70.7	56.3	75.1	40.4	30.3
65°	4118.2	4015.7	3519.1	1697.5	450.4	150.1	62.1	46.2	47.6	33.2	24.5
67.5°	3845.4	3764.5	3126.5	1465.1	417.2	147.2	54.9	40.4	36.1	28.9	21.7
70°	3374.8	3200.1	2656.0	1189.4	368.1	137.1	46.2	36.1	30.3	23.1	15.9
72.5°	2455.3	2384.6	1905.4	919.5	330.6	124.1	43.3	30.3	26.0	17.3	13.0
75°	1652.8	1535.8	1202.4	603.4	265.6	108.3	36.1	27.4	20.2	13.0	10.1
77.5°	873.3	825.7	681.3	287.2	147.2	50.5	20.2	15.9	11.5	10.1	5.8
80°	378.2	336.3	294.5	116.9	52.0	23.1	13.0	8.7	7.2	5.8	2.9
82.5°	193.4	184.8	153.0	50.5	30.3	17.3	7.2	5.8	4.3	2.9	1.4
85°	95.3	98.2	80.8	15.9	17.3	10.1	1.4	1.4	0.0	0.0	0.0
87.5°	7.2	7.2	5.8	2.9	4.3	1.4	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°	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8
2.5°	1791.3	1811.5	1776.9	1798.5	1788.4	1792.8	1797.1	1785.6	1788.4	1828.9	1830.3
5°	1434.8	1473.8	1459.3	1479.5	1514.2	1496.9	1512.7	1509.9	1512.7	1518.5	1544.5
7.5°	1023.4	1011.9	1039.3	1092.7	1154.8	1192.3	1173.5	1163.4	1157.6	1143.2	1160.5
10°	772.2	766.5	759.3	775.1	815.6	857.4	880.5	841.5	819.9	792.5	782.4
12.5°	640.9	604.8	584.6	560.1	571.6	609.1	610.6	573.1	538.4	524.0	539.9
15°	505.2	480.7	444.6	409.9	392.6	421.5	396.9	360.9	316.1	310.3	308.9
17.5°	360.9	346.4	320.4	306.0	285.8	278.6	252.6	197.8	166.0	157.3	160.2
20°	245.4	233.8	232.4	219.4	210.7	205.0	163.1	127.0	116.9	118.4	119.8
22.5°	181.9	176.1	168.9	167.4	160.2	153.0	119.8	106.8	99.6	99.6	103.9
25°	148.7	145.8	138.6	135.7	132.8	122.7	101.0	90.9	88.1	85.2	89.5
27.5°	127.0	125.6	121.3	116.9	114.0	103.9	88.1	79.4	76.5	76.5	76.5
30°	114.0	114.0	108.3	99.6	99.6	88.1	75.1	69.3	66.4	66.4	65.0
32.5°	106.8	103.9	96.7	90.9	86.6	75.1	66.4	60.6	56.3	56.3	57.7
35°	86.6	86.6	85.2	80.8	75.1	63.5	56.3	50.5	47.6	46.2	47.6
37.5°	76.5	72.2	66.4	67.8	65.0	54.9	47.6	43.3	39.0	39.0	39.0
40°	69.3	65.0	59.2	54.9	53.4	49.1	41.9	34.6	30.3	28.9	28.9
42.5°	62.1	59.2	50.5	43.3	41.9	41.9	31.8	26.0	21.7	21.7	21.7
45°	57.7	53.4	46.2	37.5	30.3	31.8	26.0	18.8	15.9	14.4	14.4
47.5°	54.9	50.5	40.4	31.8	23.1	23.1	18.8	13.0	10.1	8.7	8.7
50°	50.5	46.2	36.1	26.0	17.3	14.4	11.5	7.2	4.3	2.9	2.9
52.5°	47.6	43.3	31.8	21.7	14.4	10.1	7.2	1.4	0.0	0.0	0.0
55°	43.3	37.5	27.4	17.3	11.5	5.8	1.4	0.0	0.0	0.0	0.0
57.5°	37.5	33.2	21.7	13.0	7.2	1.4	0.0	0.0	0.0	0.0	0.0
60°	31.8	27.4	17.3	10.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	26.0	23.1	13.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	21.7	17.3	10.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	18.8	14.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14.4	10.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.1	7.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8
2.5°	1836.1	1879.4	1919.8	1931.3	1963.1	2051.1	2051.1	2093.0	2168.1	2195.5	2201.3
5°	1548.8	1595.0	1603.7	1693.2	1735.0	1824.5	1883.7	2025.2	2110.3	2163.7	2196.9
7.5°	1177.9	1193.7	1226.9	1310.7	1392.9	1501.2	1613.8	1794.2	1944.3	2005.0	2117.5
10°	809.8	857.4	929.6	1004.6	1133.1	1252.9	1398.7	1569.0	1753.8	1828.9	1925.6
12.5°	545.6	612.0	727.5	834.3	952.7	1073.9	1212.5	1440.6	1649.9	1753.8	1850.5
15°	319.0	399.8	499.4	672.6	830.0	965.7	1104.2	1335.2	1589.2	1723.5	1841.8
17.5°	161.7	186.2	268.5	418.6	626.5	848.8	1055.2	1349.6	1635.4	1800.0	1898.1
20°	121.3	128.5	151.6	222.3	428.7	701.5	1009.0	1371.3	1763.9	1964.5	2017.9
22.5°	105.4	111.1	121.3	144.3	241.1	537.0	944.0	1424.7	1938.6	2127.6	2240.2
25°	89.5	95.3	103.9	118.4	154.4	365.2	864.6	1481.0	2094.4	2332.6	2438.0
27.5°	77.9	82.3	90.9	102.5	125.6	232.4	727.5	1556.0	2332.6	2580.9	2608.3
30°	66.4	70.7	77.9	90.9	106.8	164.6	534.1	1566.1	2464.0	2689.2	2765.7
32.5°	57.7	59.2	67.8	79.4	89.5	129.9	375.3	1576.3	2560.7	2829.2	2845.0
35°	47.6	50.5	59.2	66.4	77.9	102.5	284.4	1525.7	2686.3	2973.5	2969.2
37.5°	39.0	43.3	49.1	54.9	63.5	86.6	226.6	1431.9	2843.6	3197.2	3061.6
40°	30.3	34.6	40.4	47.6	53.4	77.9	170.3	1290.4	3008.2	3306.9	3162.6
42.5°	21.7	24.5	30.3	37.5	47.6	65.0	122.7	1123.0	3073.1	3435.4	3283.9
45°	15.9	18.8	23.1	31.8	49.1	52.0	85.2	970.0	3142.4	3491.7	3256.4
47.5°	8.7	11.5	17.3	27.4	43.3	39.0	60.6	832.9	3221.8	3542.2	3278.1
50°	2.9	4.3	10.1	28.9	34.6	30.3	47.6	759.3	3299.7	3552.3	3321.4
52.5°	0.0	0.0	5.8	30.3	26.0	23.1	41.9	730.4	3279.5	3584.1	3294.0
55°	0.0	0.0	1.4	13.0	14.4	17.3	34.6	728.9	3422.4	3594.2	3444.1
57.5°	0.0	0.0	0.0	4.3	8.7	14.4	30.3	682.8	3513.4	3845.4	3646.2
60°	0.0	0.0	0.0	1.4	5.8	10.1	23.1	642.3	3605.7	3957.9	3862.7
62.5°	0.0	0.0	0.0	0.0	1.4	4.3	15.9	580.3	3419.5	3949.3	4072.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	10.1	459.0	3076.0	3742.9	3956.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.8	317.6	2693.5	3483.1	3744.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	192.0	2173.8	3054.3	3175.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.3	1551.7	2425.0	2605.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.2	959.9	1772.6	1994.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	622.1	1342.4	1514.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	332.0	841.5	978.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	144.3	511.0	588.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.2	310.3	353.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.6	63.5
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°	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8	2046.8
2.5°	2204.2	2246.0	2261.9	2237.4	2240.2	2189.7	2182.5	2111.8	2082.9	2088.7
5°	2305.2	2365.8	2399.0	2371.6	2309.5	2212.8	2124.8	2041.0	1989.1	1963.1
7.5°	2282.1	2349.9	2391.8	2417.8	2347.1	2191.2	2056.9	1899.6	1833.2	1834.6
10°	2155.1	2296.5	2381.7	2348.5	2315.3	2159.4	1951.5	1781.2	1722.0	1727.8
12.5°	2052.6	2209.9	2260.4	2286.4	2218.6	2094.4	1954.4	1759.6	1693.2	1652.8
15°	1989.1	2106.0	2108.9	2149.3	2121.9	2121.9	1984.7	1794.2	1736.5	1691.7
17.5°	1989.1	2015.1	2012.2	2026.6	2072.8	2127.6	2061.3	1934.2	1820.2	1813.0
20°	2033.8	1953.0	1934.2	1940.0	1979.0	2142.1	2230.1	2071.4	1999.2	1976.1
22.5°	2137.8	1960.2	1846.2	1826.0	1945.8	2140.6	2338.4	2287.9	2162.3	2143.5
25°	2280.7	1947.2	1823.1	1797.1	1888.0	2192.6	2487.1	2497.2	2383.1	2344.2
27.5°	2416.3	2005.0	1820.2	1814.4	1934.2	2181.1	2589.6	2664.6	2536.1	2504.4
30°	2462.5	2062.7	1873.6	1797.1	1951.5	2222.9	2586.7	2783.0	2699.3	2706.5
32.5°	2517.4	2120.4	1879.4	1849.1	2025.2	2290.8	2668.9	2973.5	2912.9	2827.7
35°	2598.2	2198.4	1934.2	1906.8	2077.1	2351.4	2686.3	3113.5	3103.4	3003.8
37.5°	2667.5	2274.9	2048.3	2052.6	2235.9	2449.5	2762.8	3285.3	3268.0	3200.1
40°	2716.6	2381.7	2225.8	2237.4	2374.5	2559.2	2898.5	3371.9	3500.4	3400.8
42.5°	2723.8	2477.0	2429.3	2521.7	2650.2	2729.6	2953.3	3431.1	3615.8	3550.9
45°	2751.2	2628.5	2761.3	2829.2	2934.5	2879.7	2950.4	3532.1	3624.5	3591.3
47.5°	2858.0	2904.2	3071.7	3278.1	3315.6	3135.2	3019.7	3548.0	3673.6	3669.3
50°	2969.2	3200.1	3435.4	3572.5	3620.2	3311.3	3084.7	3535.0	3738.5	3703.9
52.5°	3093.3	3457.1	3796.3	3965.2	3939.2	3506.1	3158.3	3640.4	3858.3	3846.8
55°	3171.3	3572.5	4028.7	4264.0	4243.8	3724.1	3392.1	3791.9	4015.7	3986.8
57.5°	3377.7	3760.2	4259.6	4369.3	4422.7	4009.9	3555.2	4040.2	4147.0	4178.8
60°	3548.0	3882.9	4320.3	4479.0	4497.8	4180.2	3841.0	4295.7	4314.5	4207.7
62.5°	3797.7	3930.5	4191.8	4334.7	4431.4	4276.9	4098.0	4432.8	4311.6	4304.4
65°	3981.0	3774.6	3952.2	4031.6	4093.6	4129.7	4356.3	4526.7	4258.2	4118.2
67.5°	3878.6	3480.2	3447.0	3451.3	3470.1	3688.0	4269.7	4297.2	3960.8	3845.4
70°	3413.8	2855.1	2810.4	2845.0	2751.2	3013.9	3919.0	3906.0	3494.6	3374.8
72.5°	2761.3	2081.5	2005.0	2052.6	2074.2	2352.8	3296.8	2962.0	2549.1	2455.3
75°	2194.0	1525.7	1287.6	1403.0	1476.7	1713.4	2575.1	2012.2	1779.8	1652.8
77.5°	1723.5	1154.8	1001.8	955.6	1023.4	1245.7	1873.6	1056.6	932.5	873.3
80°	1092.7	848.8	920.9	854.5	883.4	889.2	975.8	480.7	382.5	378.2
82.5°	658.2	580.3	690.0	379.6	691.4	617.8	405.6	218.0	193.4	193.4
85°	466.2	359.4	238.2	154.4	307.5	339.2	157.3	112.6	98.2	95.3
87.5°	233.8	111.1	53.4	34.6	39.0	63.5	18.8	8.7	8.7	7.2
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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