

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: P677431

Luminaire Tested: **CCW-SA-1F-740-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677431  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-740-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
SLR distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

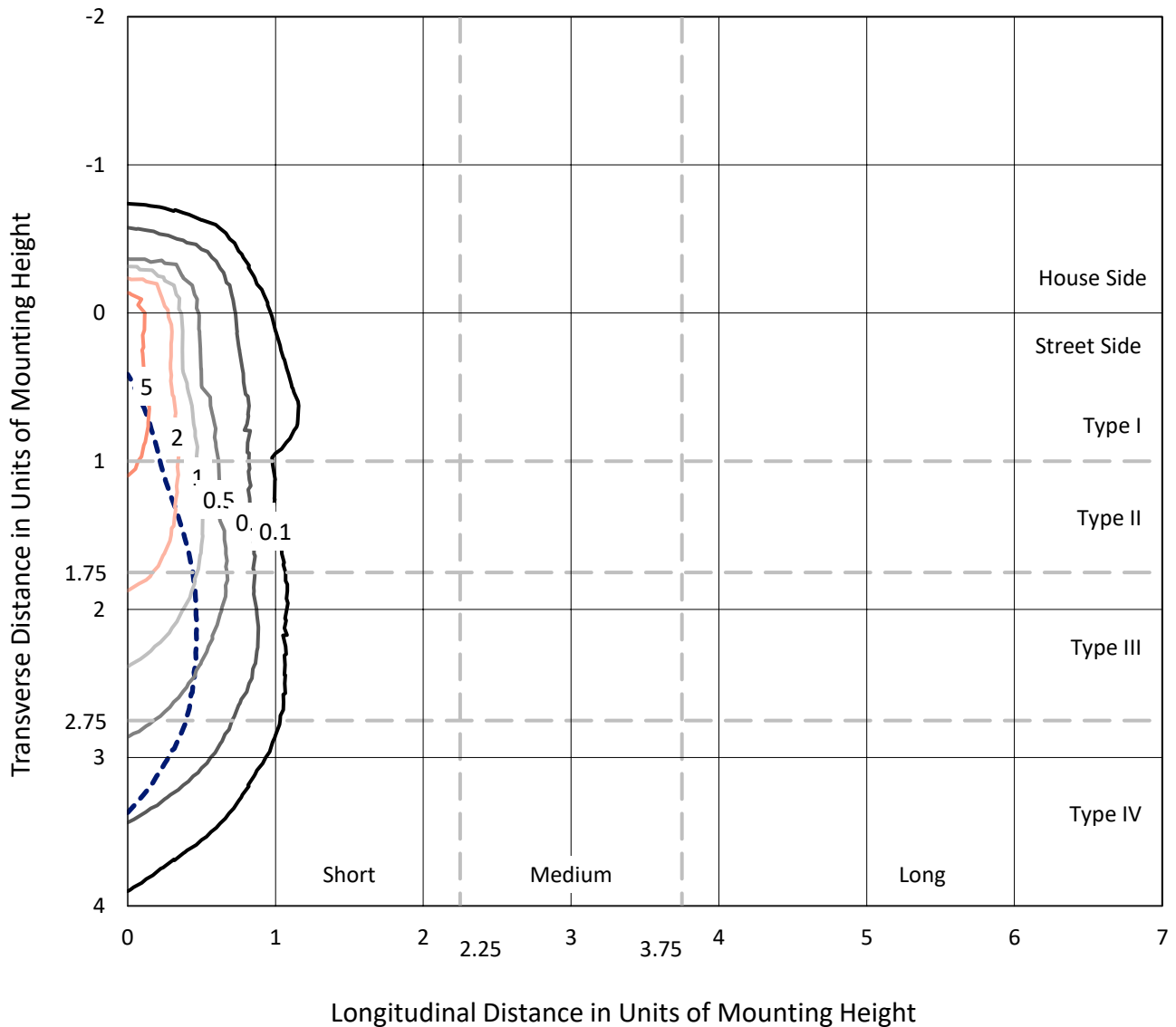
Lumens per Lamp: N/A  
Luminaire Lumens: 5388.1 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 67  
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

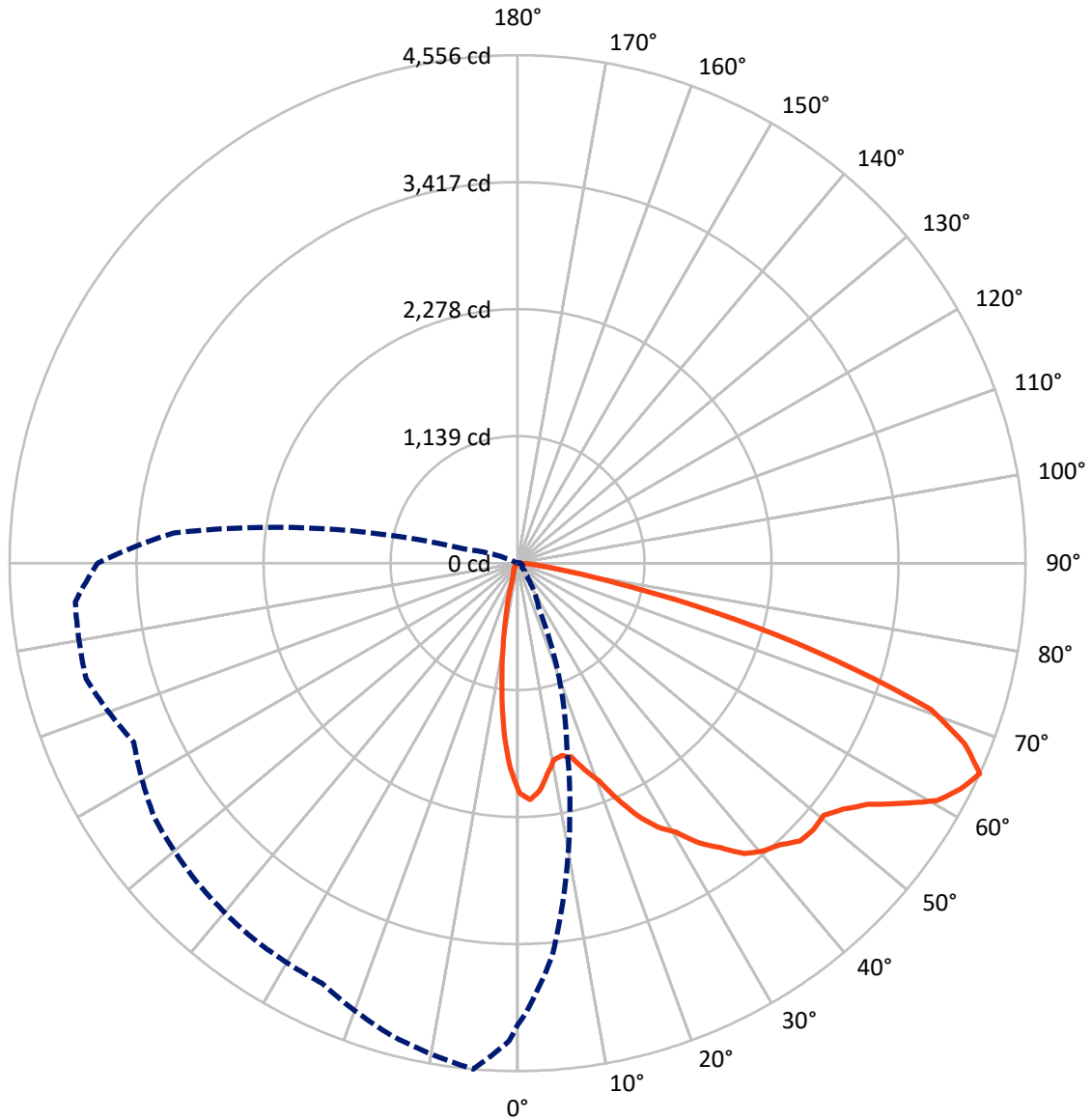
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.2 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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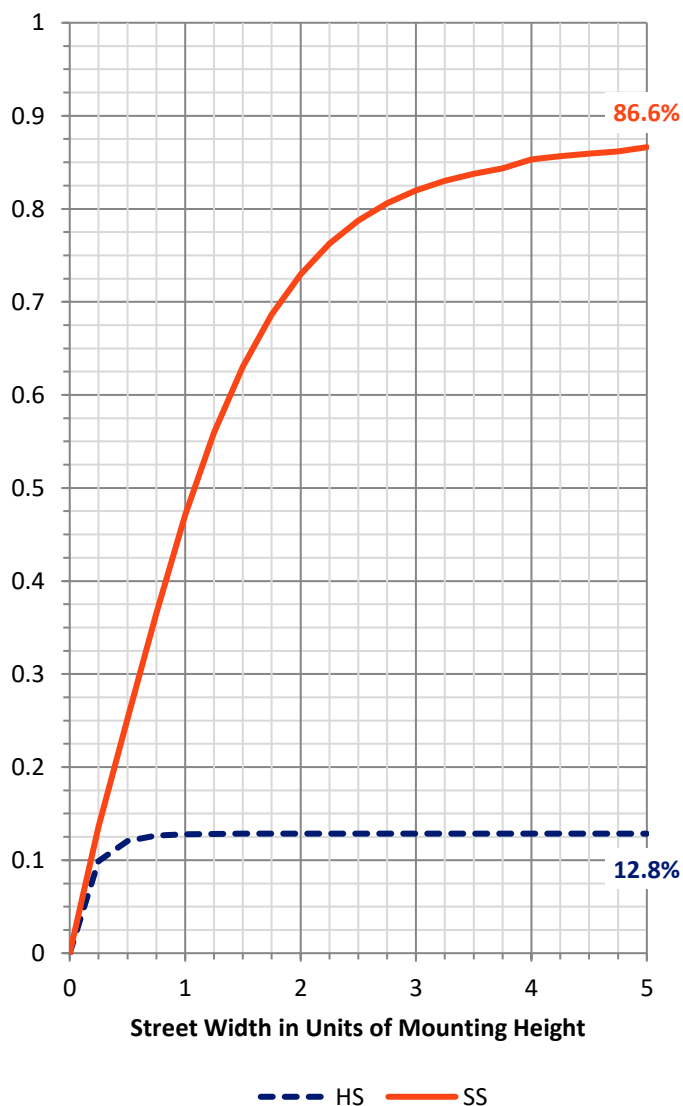
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	699.6	0.0	699.6
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	4688.5	0.0	4688.5
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	5388.1	0.0	5388.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.0	2.9
10°-20°	302.1	5.6
20°-30°	420.8	7.8
30°-40°	597.9	11.1
40°-50°	829.1	15.4
50°-60°	1129.8	21.0
60°-70°	1242.1	23.1
70°-80°	610.5	11.3
80°-90°	99.7	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°	5388.1	100.0
0°-180°	5388.1	100.0

**Coefficient of Utilization**



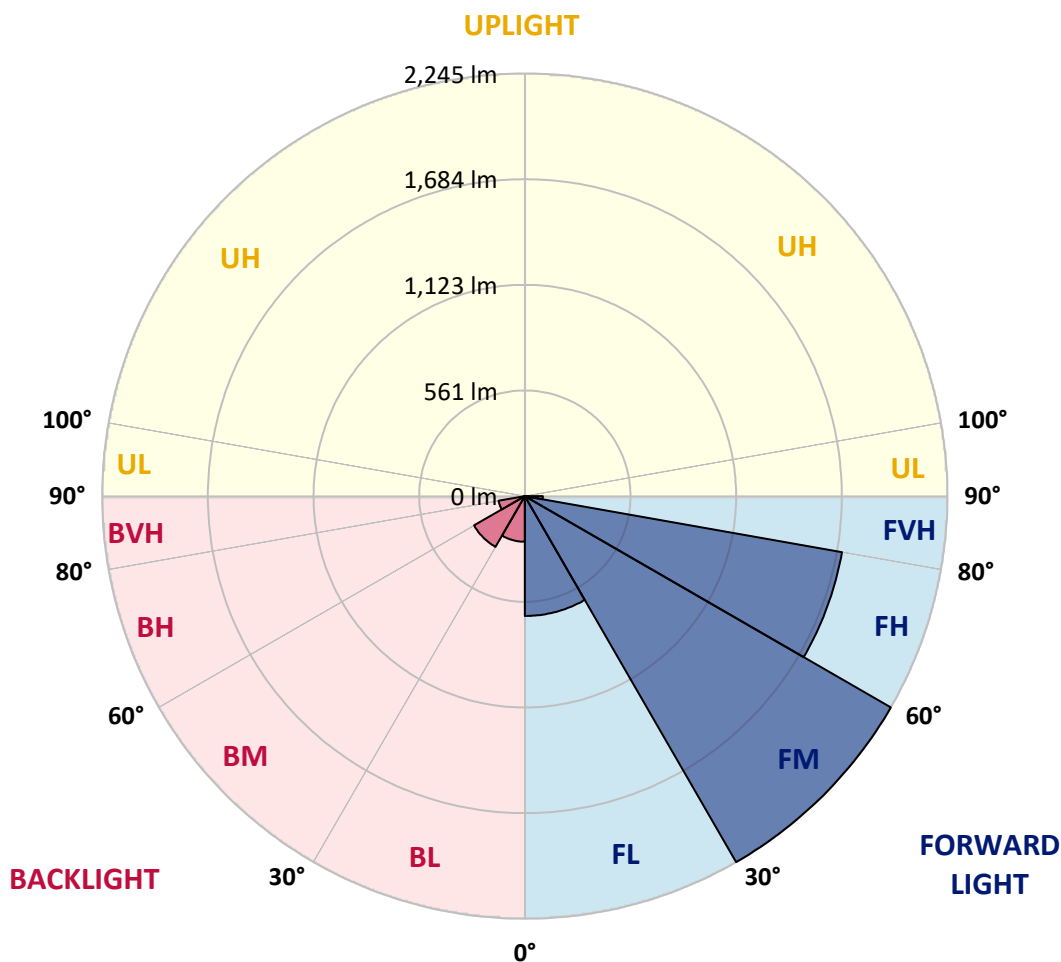
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.8	11.8			
FM (30°-60°)	2245.4	41.7			
FH (60°-80°)	1711.2	31.8			G1/1800
FVH (80°-90°)	95.2	1.8			G1/100
BL (0°-30°)	242.2	4.5	B1/500		
BM (30°-60°)	311.5	5.8	B1/1000		
BH (60°-80°)	141.4	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°	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9
2.5°	2102.0	2126.7	2103.4	2022.1	2007.6	1968.3	1908.8	1904.4	1842.0	1849.2	1815.8
5°	1975.6	2000.3	1950.9	1843.4	1743.2	1663.3	1615.3	1529.6	1510.8	1468.6	1468.6
7.5°	1846.3	1844.9	1760.6	1670.5	1520.9	1374.2	1307.4	1183.9	1111.3	1072.1	1034.3
10°	1738.8	1715.6	1663.3	1477.3	1314.6	1162.1	1079.3	998.0	922.4	857.1	791.7
12.5°	1663.3	1677.8	1595.0	1393.1	1182.5	1076.4	987.8	902.1	812.0	737.9	665.3
15°	1702.5	1679.3	1581.9	1374.2	1160.7	1015.4	897.7	793.1	692.9	595.6	540.4
17.5°	1824.5	1765.0	1650.2	1374.2	1115.6	922.4	780.1	656.6	549.1	461.9	393.7
20°	1988.7	1920.4	1796.9	1425.0	1082.2	854.2	659.5	504.1	392.2	310.9	258.6
22.5°	2157.2	2103.4	1917.5	1445.4	1043.0	762.6	520.0	364.6	261.5	209.2	183.0
25°	2359.1	2283.6	2080.2	1526.7	984.9	674.0	409.6	254.2	194.7	167.1	151.1
27.5°	2520.3	2507.3	2232.7	1576.1	941.3	601.4	323.9	201.9	161.2	140.9	130.7
30°	2723.7	2652.5	2418.7	1674.9	891.9	518.6	270.2	181.6	148.2	126.4	119.1
32.5°	2845.7	2812.3	2516.0	1730.1	836.7	450.3	232.4	159.8	135.1	119.1	111.9
35°	3023.0	2956.1	2655.4	1765.0	807.7	411.1	209.2	145.3	113.3	97.3	88.6
37.5°	3220.5	3195.8	2822.5	1763.5	765.5	387.9	193.2	135.1	107.5	90.1	79.9
40°	3422.4	3322.2	2924.2	1804.2	743.8	370.4	181.6	129.3	101.7	85.7	72.6
42.5°	3573.5	3458.8	3041.8	1789.7	717.6	339.9	177.2	120.6	97.3	78.4	66.8
45°	3614.2	3573.5	3147.9	1785.3	698.7	315.2	170.0	119.1	94.4	74.1	62.5
47.5°	3692.6	3665.0	3278.6	1792.6	684.2	296.3	152.5	122.0	90.1	69.7	59.6
50°	3727.5	3678.1	3384.7	1810.0	650.8	273.1	136.5	127.8	88.6	68.3	56.7
52.5°	3871.3	3827.7	3529.9	1859.4	623.2	242.6	120.6	122.0	91.5	63.9	53.7
55°	4012.2	3962.8	3753.6	1972.7	584.0	217.9	103.1	107.5	87.2	58.1	47.9
57.5°	4205.4	4124.1	3903.3	2019.2	549.1	184.5	91.5	88.6	81.3	52.3	42.1
60°	4234.5	4267.9	3881.5	1990.1	512.8	162.7	79.9	68.3	87.2	46.5	36.3
62.5°	4331.8	4192.3	3779.8	1923.3	486.6	149.6	71.2	56.7	75.5	40.7	30.5
65°	4144.4	4041.3	3541.6	1708.3	453.2	151.1	62.5	46.5	47.9	33.4	24.7
67.5°	3869.9	3788.5	3146.4	1474.4	419.8	148.2	55.2	40.7	36.3	29.1	21.8
70°	3396.3	3220.5	2672.9	1197.0	370.4	138.0	46.5	36.3	30.5	23.2	16.0
72.5°	2471.0	2399.8	1917.5	925.3	332.7	124.9	43.6	30.5	26.1	17.4	13.1
75°	1663.3	1545.6	1210.1	607.2	267.3	108.9	36.3	27.6	20.3	13.1	10.2
77.5°	878.9	830.9	685.6	289.1	148.2	50.8	20.3	16.0	11.6	10.2	5.8
80°	380.6	338.5	296.3	117.7	52.3	23.2	13.1	8.7	7.3	5.8	2.9
82.5°	194.7	185.9	154.0	50.8	30.5	17.4	7.3	5.8	4.4	2.9	1.5
85°	95.9	98.8	81.3	16.0	17.4	10.2	1.5	1.5	0.0	0.0	0.0
87.5°	7.3	7.3	5.8	2.9	4.4	1.5	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°	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9
2.5°	1802.7	1823.1	1788.2	1810.0	1799.8	1804.2	1808.5	1796.9	1799.8	1840.5	1842.0
5°	1443.9	1483.2	1468.6	1489.0	1523.8	1506.4	1522.4	1519.5	1522.4	1528.2	1554.3
7.5°	1029.9	1018.3	1045.9	1099.7	1162.1	1199.9	1181.0	1170.8	1165.0	1150.5	1167.9
10°	777.2	771.4	764.1	780.1	820.7	862.9	886.1	846.9	825.1	797.5	787.3
12.5°	645.0	608.7	588.3	563.6	575.2	613.0	614.5	576.7	541.8	527.3	543.3
15°	508.4	483.7	447.4	412.6	395.1	424.2	399.5	363.2	318.1	312.3	310.9
17.5°	363.2	348.6	322.5	308.0	287.6	280.4	254.2	199.0	167.1	158.3	161.2
20°	247.0	235.3	233.9	220.8	212.1	206.3	164.1	127.8	117.7	119.1	120.6
22.5°	183.0	177.2	170.0	168.5	161.2	154.0	120.6	107.5	100.2	100.2	104.6
25°	149.6	146.7	139.5	136.5	133.6	123.5	101.7	91.5	88.6	85.7	90.1
27.5°	127.8	126.4	122.0	117.7	114.8	104.6	88.6	79.9	77.0	77.0	77.0
30°	114.8	114.8	108.9	100.2	100.2	88.6	75.5	69.7	66.8	66.8	65.4
32.5°	107.5	104.6	97.3	91.5	87.2	75.5	66.8	61.0	56.7	56.7	58.1
35°	87.2	87.2	85.7	81.3	75.5	63.9	56.7	50.8	47.9	46.5	47.9
37.5°	77.0	72.6	66.8	68.3	65.4	55.2	47.9	43.6	39.2	39.2	39.2
40°	69.7	65.4	59.6	55.2	53.7	49.4	42.1	34.9	30.5	29.1	29.1
42.5°	62.5	59.6	50.8	43.6	42.1	42.1	32.0	26.1	21.8	21.8	21.8
45°	58.1	53.7	46.5	37.8	30.5	32.0	26.1	18.9	16.0	14.5	14.5
47.5°	55.2	50.8	40.7	32.0	23.2	23.2	18.9	13.1	10.2	8.7	8.7
50°	50.8	46.5	36.3	26.1	17.4	14.5	11.6	7.3	4.4	2.9	2.9
52.5°	47.9	43.6	32.0	21.8	14.5	10.2	7.3	1.5	0.0	0.0	0.0
55°	43.6	37.8	27.6	17.4	11.6	5.8	1.5	0.0	0.0	0.0	0.0
57.5°	37.8	33.4	21.8	13.1	7.3	1.5	0.0	0.0	0.0	0.0	0.0
60°	32.0	27.6	17.4	10.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	26.1	23.2	13.1	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	21.8	17.4	10.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	18.9	14.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14.5	10.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.2	7.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.5	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°	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9
2.5°	1847.8	1891.3	1932.0	1943.6	1975.6	2064.2	2064.2	2106.3	2181.9	2209.5	2215.3
5°	1558.7	1605.2	1613.9	1704.0	1746.1	1836.1	1895.7	2038.1	2123.8	2177.5	2210.9
7.5°	1185.4	1201.3	1234.8	1319.0	1401.8	1510.8	1624.1	1805.6	1956.7	2017.7	2131.0
10°	814.9	862.9	935.5	1011.0	1140.3	1260.9	1407.6	1579.0	1765.0	1840.5	1937.8
12.5°	549.1	615.9	732.1	839.6	958.7	1080.8	1220.2	1449.7	1660.4	1765.0	1862.3
15°	321.0	402.4	502.6	676.9	835.3	971.8	1111.3	1343.7	1599.4	1734.5	1853.6
17.5°	162.7	187.4	270.2	421.3	630.4	854.2	1061.9	1358.2	1645.9	1811.5	1910.2
20°	122.0	129.3	152.5	223.7	431.4	706.0	1015.4	1380.0	1775.1	1977.1	2030.8
22.5°	106.0	111.9	122.0	145.3	242.6	540.4	950.0	1433.8	1950.9	2141.2	2254.5
25°	90.1	95.9	104.6	119.1	155.4	367.5	870.1	1490.4	2107.8	2347.5	2453.5
27.5°	78.4	82.8	91.5	103.1	126.4	233.9	732.1	1566.0	2347.5	2597.3	2624.9
30°	66.8	71.2	78.4	91.5	107.5	165.6	537.5	1576.1	2479.7	2706.3	2783.3
32.5°	58.1	59.6	68.3	79.9	90.1	130.7	377.7	1586.3	2577.0	2847.2	2863.2
35°	47.9	50.8	59.6	66.8	78.4	103.1	286.2	1535.4	2703.4	2992.5	2988.1
37.5°	39.2	43.6	49.4	55.2	63.9	87.2	228.1	1441.0	2861.7	3217.6	3081.1
40°	30.5	34.9	40.7	47.9	53.7	78.4	171.4	1298.7	3027.3	3328.0	3182.8
42.5°	21.8	24.7	30.5	37.8	47.9	65.4	123.5	1130.2	3092.7	3457.3	3304.8
45°	16.0	18.9	23.2	32.0	49.4	52.3	85.7	976.2	3162.4	3514.0	3277.2
47.5°	8.7	11.6	17.4	27.6	43.6	39.2	61.0	838.2	3242.3	3564.8	3299.0
50°	2.9	4.4	10.2	29.1	34.9	30.5	47.9	764.1	3320.8	3575.0	3342.5
52.5°	0.0	0.0	5.8	30.5	26.1	23.2	42.1	735.0	3300.4	3606.9	3314.9
55°	0.0	0.0	1.5	13.1	14.5	17.4	34.9	733.6	3444.2	3617.1	3466.0
57.5°	0.0	0.0	0.0	4.4	8.7	14.5	30.5	687.1	3535.7	3869.9	3669.4
60°	0.0	0.0	0.0	1.5	5.8	10.2	23.2	646.4	3628.7	3983.2	3887.3
62.5°	0.0	0.0	0.0	0.0	1.5	4.4	16.0	584.0	3441.3	3974.4	4097.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	10.2	461.9	3095.6	3766.7	3981.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.8	319.6	2710.6	3505.2	3768.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	193.2	2187.7	3073.8	3195.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.8	1561.6	2440.4	2622.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.4	966.0	1783.9	2007.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	626.1	1351.0	1523.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	334.1	846.9	984.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	145.3	514.2	592.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.5	312.3	355.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.9	63.9
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°	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9	2059.9
2.5°	2218.2	2260.3	2276.3	2251.6	2254.5	2203.7	2196.4	2125.2	2096.2	2102.0
5°	2319.9	2380.9	2414.3	2386.7	2324.2	2226.9	2138.3	2054.0	2001.7	1975.6
7.5°	2296.6	2364.9	2407.0	2433.2	2362.0	2205.1	2070.0	1911.7	1844.9	1846.3
10°	2168.8	2311.2	2396.9	2363.5	2330.0	2173.2	1964.0	1792.6	1733.0	1738.8
12.5°	2065.7	2224.0	2274.8	2301.0	2232.7	2107.8	1966.9	1770.8	1704.0	1663.3
15°	2001.7	2119.4	2122.3	2163.0	2135.4	2135.4	1997.4	1805.6	1747.5	1702.5
17.5°	2001.7	2027.9	2025.0	2039.5	2086.0	2141.2	2074.4	1946.5	1831.8	1824.5
20°	2046.8	1965.4	1946.5	1952.4	1991.6	2155.7	2244.3	2084.5	2011.9	1988.7
22.5°	2151.4	1972.7	1857.9	1837.6	1958.2	2154.3	2353.3	2302.4	2176.1	2157.2
25°	2295.2	1959.6	1834.7	1808.5	1900.1	2206.6	2502.9	2513.1	2398.3	2359.1
27.5°	2431.7	2017.7	1831.8	1826.0	1946.5	2195.0	2606.1	2681.6	2552.3	2520.3
30°	2478.2	2075.8	1885.5	1808.5	1964.0	2237.1	2603.1	2800.7	2716.5	2723.7
32.5°	2533.4	2133.9	1891.3	1860.8	2038.1	2305.4	2685.9	2992.5	2931.4	2845.7
35°	2614.8	2212.4	1946.5	1918.9	2090.4	2366.4	2703.4	3133.4	3123.2	3023.0
37.5°	2684.5	2289.4	2061.3	2065.7	2250.2	2465.1	2780.4	3306.2	3288.8	3220.5
40°	2733.9	2396.9	2240.0	2251.6	2389.6	2575.5	2916.9	3393.4	3522.7	3422.4
42.5°	2741.1	2492.7	2444.8	2537.8	2667.1	2747.0	2972.1	3452.9	3638.9	3573.5
45°	2768.7	2645.3	2778.9	2847.2	2953.2	2898.0	2969.2	3554.6	3647.6	3614.2
47.5°	2876.2	2922.7	3091.2	3299.0	3336.7	3155.2	3038.9	3570.6	3697.0	3692.6
50°	2988.1	3220.5	3457.3	3595.3	3643.2	3332.4	3104.3	3557.5	3762.4	3727.5
52.5°	3113.0	3479.1	3820.5	3990.4	3964.3	3528.5	3178.4	3663.6	3882.9	3871.3
55°	3191.5	3595.3	4054.3	4291.1	4270.8	3747.8	3413.7	3816.1	4041.3	4012.2
57.5°	3399.2	3784.1	4286.8	4397.2	4450.9	4035.5	3577.9	4066.0	4173.5	4205.4
60°	3570.6	3907.6	4347.8	4507.6	4526.5	4206.9	3865.5	4323.1	4342.0	4234.5
62.5°	3821.9	3955.6	4218.5	4362.3	4459.6	4304.2	4124.1	4461.1	4339.1	4331.8
65°	4006.4	3798.7	3977.4	4057.2	4119.7	4156.0	4384.1	4555.5	4285.3	4144.4
67.5°	3903.3	3502.3	3468.9	3473.3	3492.2	3711.5	4296.9	4324.5	3986.1	3869.9
70°	3435.5	2873.3	2828.3	2863.2	2768.7	3033.1	3943.9	3930.9	3516.9	3396.3
72.5°	2778.9	2094.7	2017.7	2065.7	2087.5	2367.8	3317.8	2980.8	2565.4	2471.0
75°	2208.0	1535.4	1295.8	1412.0	1486.1	1724.3	2591.5	2025.0	1791.1	1663.3
77.5°	1734.5	1162.1	1008.1	961.7	1029.9	1253.6	1885.5	1063.3	938.4	878.9
80°	1099.7	854.2	926.8	860.0	889.0	894.8	982.0	483.7	385.0	380.6
82.5°	662.4	584.0	694.4	382.0	695.8	621.7	408.2	219.3	194.7	194.7
85°	469.2	361.7	239.7	155.4	309.4	341.4	158.3	113.3	98.8	95.9
87.5°	235.3	111.9	53.7	34.9	39.2	63.9	18.9	8.7	8.7	7.3
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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