

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: P677300

Luminaire Tested: **CCW-SA-2B-750-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677300  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-750-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
SLL distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

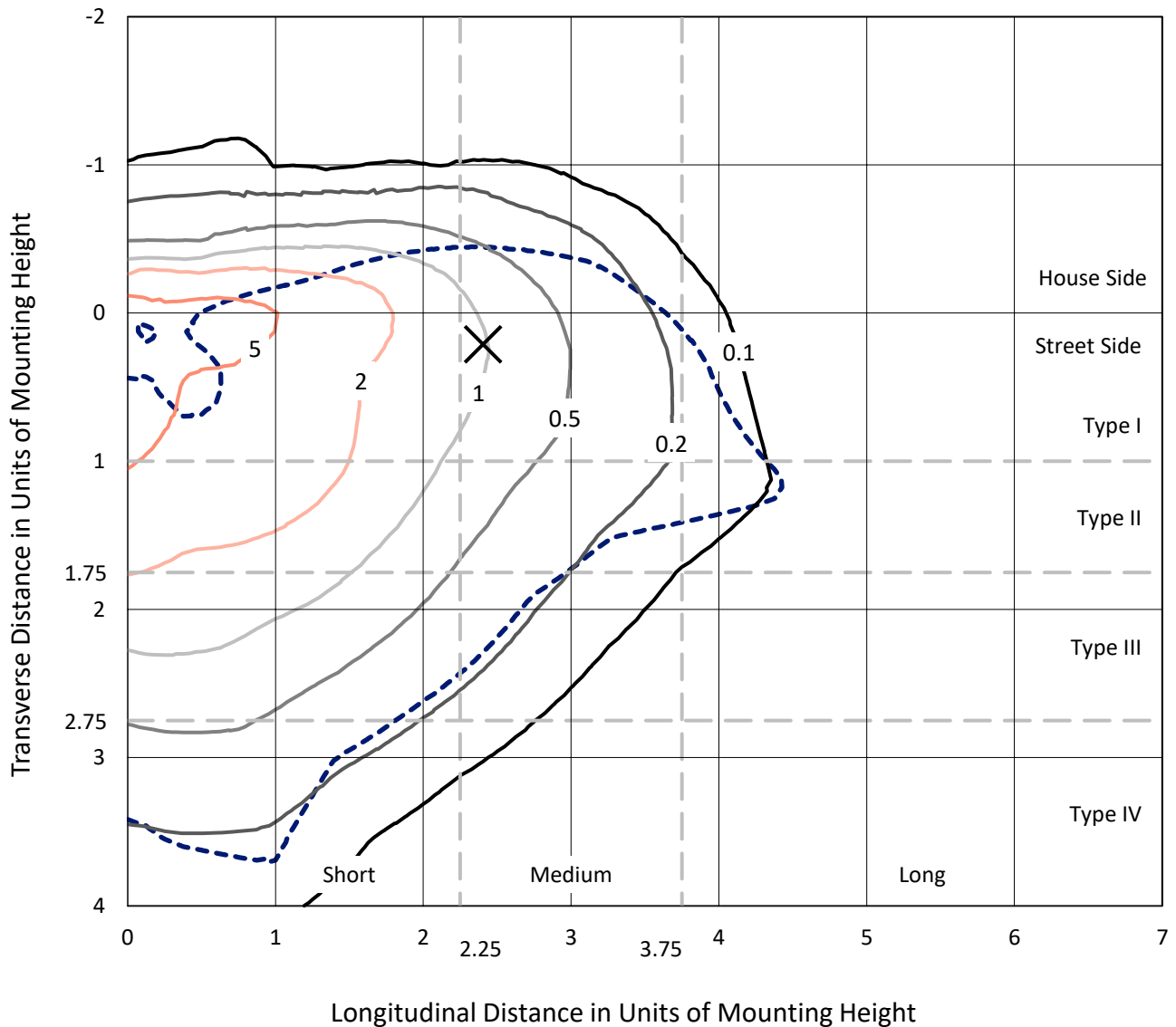
Lumens per Lamp: N/A  
Luminaire Lumens: 5125.5 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

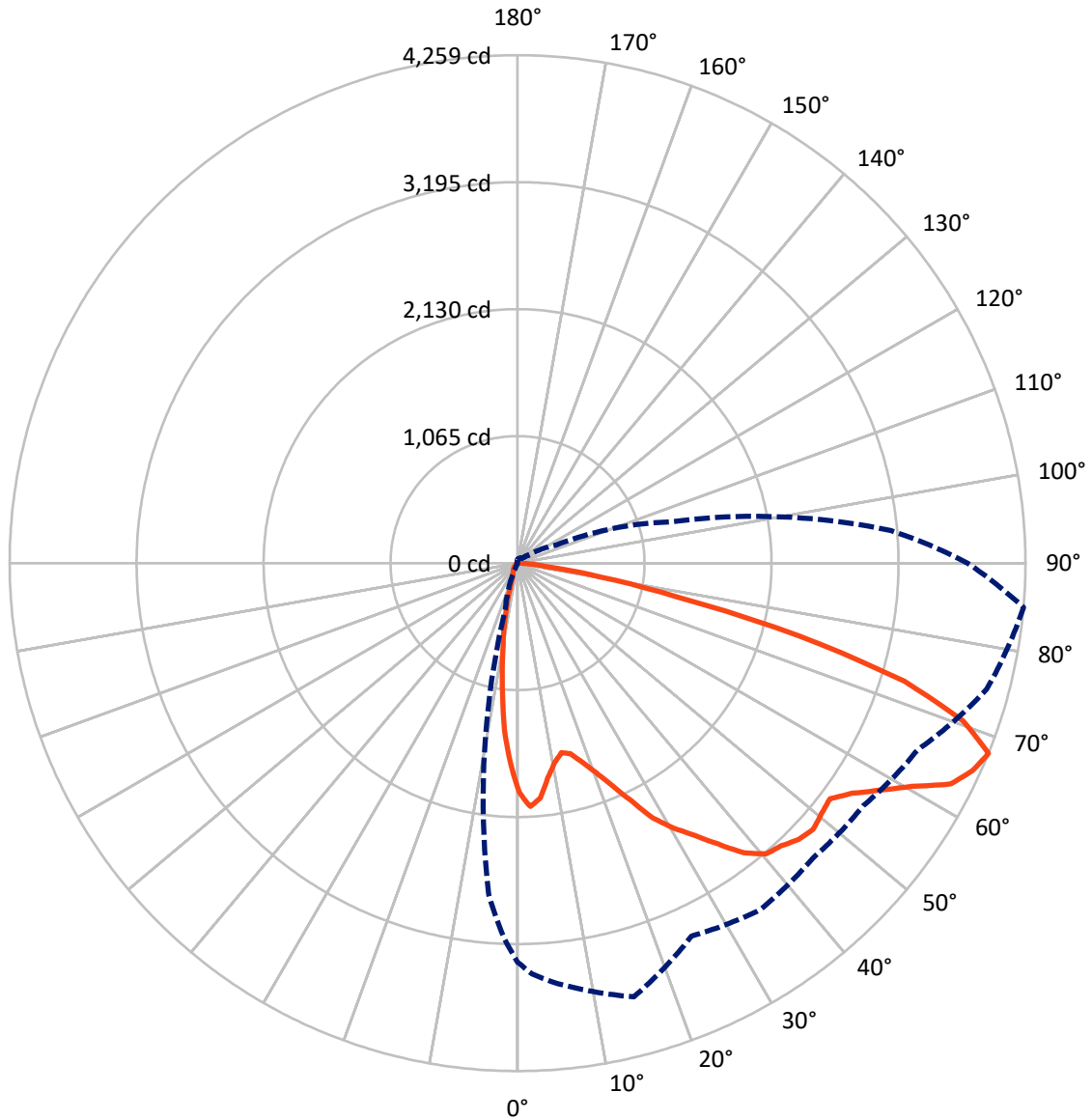
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	889.9	0.0	889.9
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	4235.5	0.0	4235.5
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	5125.5	0.0	5125.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.4	2.9
10°-20°	287.1	5.6
20°-30°	397.3	7.8
30°-40°	561.5	11.0
40°-50°	764.5	14.9
50°-60°	1012.5	19.8
60°-70°	1175.5	22.9
70°-80°	665.7	13.0
80°-90°	115.0	2.2
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°	5125.5	100.0
0°-180°	5125.5	100.0

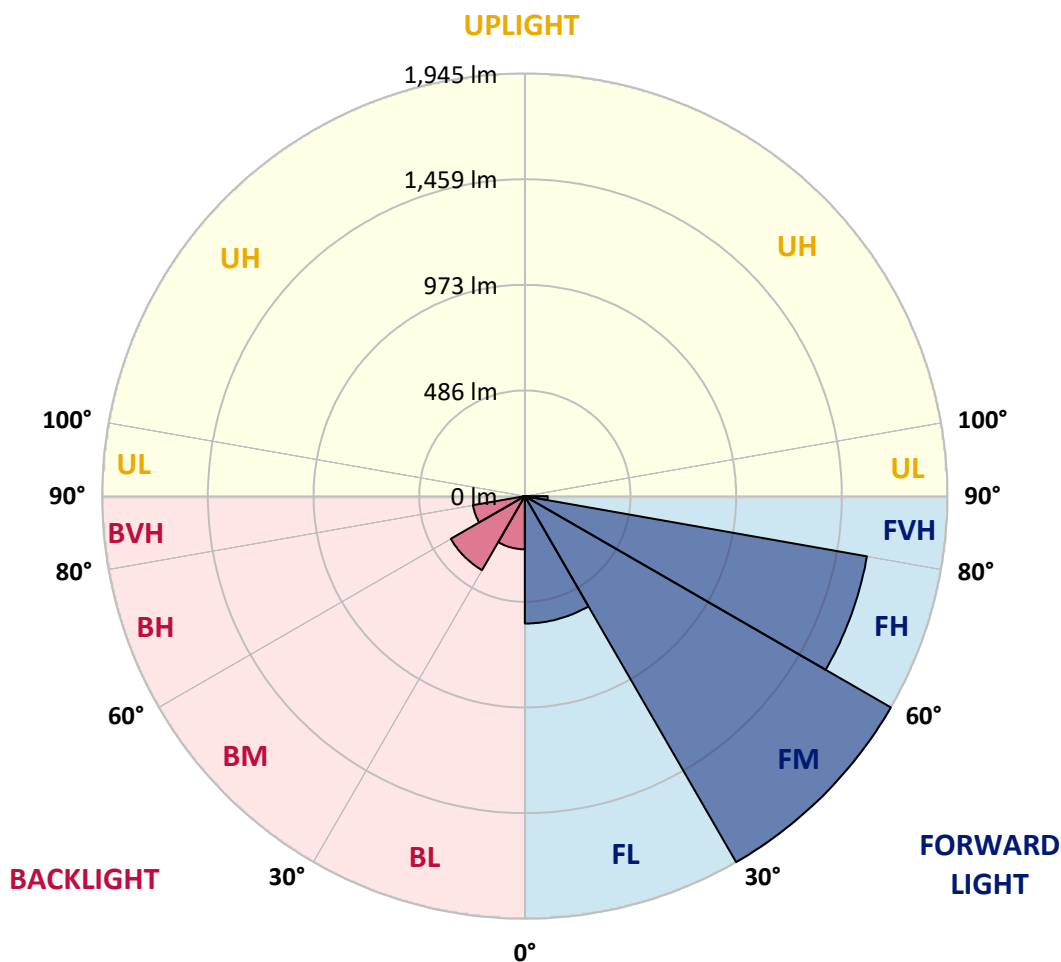


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.1	11.4			
FM (30°-60°)	1945.2	38.0			
FH (60°-80°)	1598.9	31.2			G1/1800
FVH (80°-90°)	105.3	2.1			G2/225
BL (0°-30°)	244.7	4.8	B1/500		
BM (30°-60°)	393.2	7.7	B1/1000		
BH (60°-80°)	242.4	4.7	B1/500		G1/500
BVH (80°-90°)	9.7	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1
2.5°	2002.4	2044.8	2046.2	2065.4	2084.5	2084.5	2129.7	2118.8	2079.1	2072.2	2043.5
5°	2017.5	2032.5	2043.5	2140.7	2222.8	2214.6	2239.2	2222.8	2146.1	2047.6	1980.5
7.5°	1887.4	1903.9	1947.7	2113.3	2224.2	2261.1	2307.6	2205.0	2124.2	1946.3	1817.6
10°	1715.0	1746.5	1827.2	2016.1	2153.0	2270.7	2270.7	2188.6	2032.5	1858.7	1701.3
12.5°	1619.2	1682.1	1725.9	1917.6	2095.5	2176.2	2173.5	2129.7	2028.4	1809.4	1631.5
15°	1635.6	1653.4	1746.5	1895.7	2013.4	2009.3	2058.5	2044.8	1973.7	1853.2	1657.5
17.5°	1710.9	1738.3	1819.0	1895.7	1951.8	1935.4	1934.0	1999.7	2003.8	1927.1	1754.7
20°	1834.1	1914.8	1953.1	1976.4	1908.0	1838.2	1830.0	1921.7	1992.8	2021.6	1871.0
22.5°	2031.2	2084.5	2162.6	2043.5	1865.5	1778.0	1761.5	1862.8	2006.5	2133.8	2021.6
25°	2224.2	2265.2	2340.5	2187.2	1913.5	1765.6	1736.9	1824.5	2058.5	2289.8	2203.6
27.5°	2428.1	2463.7	2471.9	2292.6	1939.5	1741.0	1706.8	1824.5	2102.3	2372.0	2421.2
30°	2552.6	2595.1	2603.3	2385.7	1981.9	1761.5	1745.1	1832.7	2132.4	2441.8	2577.3
32.5°	2692.2	2703.2	2696.4	2402.1	2028.4	1821.8	1753.3	1887.4	2166.7	2525.3	2719.6
35°	2859.2	2878.4	2808.6	2477.4	2132.4	1860.1	1835.4	1954.5	2225.5	2563.6	2892.1
37.5°	2986.5	3046.7	2889.3	2506.1	2153.0	1940.8	1944.9	2094.1	2266.6	2610.1	3082.3
40°	3226.0	3124.8	3026.2	2604.7	2231.0	2077.7	2055.8	2237.8	2404.8	2640.2	3206.9
42.5°	3357.4	3304.1	3079.6	2614.2	2351.4	2266.6	2272.1	2400.7	2477.4	2725.1	3241.1
45°	3390.3	3334.2	3152.1	2621.1	2470.5	2489.7	2584.1	2608.8	2584.1	2781.2	3305.4
47.5°	3473.8	3352.0	3143.9	2712.8	2663.5	2737.4	2857.9	2911.2	2729.2	2760.7	3335.5
50°	3457.4	3387.6	3126.1	2751.1	2898.9	3094.6	3175.4	3153.5	2890.7	2718.3	3302.7
52.5°	3388.9	3313.6	3180.9	2855.1	3119.3	3356.1	3468.3	3413.6	3034.4	2814.1	3280.8
55°	3488.8	3431.4	3252.1	2996.1	3284.9	3586.0	3665.4	3624.3	3211.0	2903.0	3405.3
57.5°	3597.0	3584.6	3445.0	3161.7	3480.6	3822.8	3822.8	3772.2	3364.3	3031.7	3590.1
60°	3753.0	3780.4	3587.4	3271.2	3547.7	3809.1	4007.6	3948.7	3518.9	3257.5	3799.5
62.5°	3702.4	3790.0	3770.8	3506.6	3624.3	3876.2	3984.3	4028.1	3710.6	3532.6	4078.8
65°	3539.5	3632.6	3769.4	3661.3	3566.9	3713.3	3768.1	3900.8	3806.4	3791.3	4193.7
67.5°	3345.1	3446.4	3531.3	3765.3	3450.5	3547.7	3499.8	3542.2	3702.4	4074.6	4259.4
70°	2920.8	3018.0	3152.1	3534.0	3142.6	3055.0	3042.6	3022.1	3271.2	3973.4	3961.0
72.5°	2402.1	2447.3	2669.0	2872.9	2325.4	2309.0	2328.2	2304.9	2593.7	3597.0	3393.0
75°	1798.5	1843.6	1969.6	2206.4	1583.6	1489.2	1598.7	1706.8	1980.5	2792.2	2437.7
77.5°	1352.3	1409.8	1489.2	1650.7	1162.0	1014.2	1029.3	1131.9	1431.7	2236.5	1366.0
80°	877.3	870.5	1023.8	1136.0	874.6	902.0	863.7	938.9	1037.5	1196.3	698.0
82.5°	506.4	513.3	577.6	651.5	609.1	696.7	502.3	839.0	740.5	487.3	260.1
85°	284.7	297.0	355.9	451.7	381.9	255.9	209.4	416.1	465.4	199.8	125.9
87.5°	28.7	24.6	47.9	171.1	104.0	42.4	63.0	99.9	112.2	75.3	37.0
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°	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1
2.5°	2002.4	2002.4	1968.2	1910.7	1887.4	1846.4	1790.3	1808.1	1788.9	1719.1	1701.3
5°	1920.3	1854.6	1783.4	1695.8	1645.2	1541.2	1508.3	1449.5	1459.0	1400.2	1402.9
7.5°	1749.2	1697.2	1576.8	1461.8	1361.9	1271.5	1144.2	1096.3	1049.8	1026.5	1053.9
10°	1649.3	1552.1	1387.9	1237.3	1104.5	1023.8	938.9	873.2	813.0	767.8	758.3
12.5°	1576.8	1490.5	1292.1	1108.7	1004.6	938.9	860.9	770.6	711.7	633.7	610.4
15°	1554.9	1449.5	1240.0	1058.0	956.7	848.6	759.6	670.7	594.0	511.9	483.2
17.5°	1630.1	1508.3	1238.7	1017.0	874.6	758.3	635.1	535.2	457.1	381.9	364.1
20°	1757.4	1571.3	1278.4	992.3	796.6	640.6	500.9	401.0	313.4	264.2	251.8
22.5°	1902.5	1678.0	1282.5	926.6	718.6	522.8	365.4	264.2	214.9	191.6	184.8
25°	2080.4	1849.1	1331.8	873.2	626.9	396.9	260.1	202.6	173.8	160.1	157.4
27.5°	2226.9	1968.2	1385.1	817.1	536.5	294.3	203.9	165.6	150.6	136.9	135.5
30°	2378.8	2105.1	1400.2	782.9	458.5	242.3	175.2	146.5	130.0	123.2	121.8
32.5°	2511.6	2254.3	1448.1	726.8	384.6	213.5	158.8	131.4	120.4	109.5	108.1
35°	2682.7	2340.5	1471.4	696.7	357.2	193.0	145.1	120.4	104.0	97.2	94.4
37.5°	2866.1	2424.0	1486.4	673.4	334.0	180.7	136.9	113.6	98.5	89.0	86.2
40°	3037.2	2541.7	1464.5	644.7	316.2	165.6	131.4	105.4	91.7	82.1	78.0
42.5°	3168.6	2656.7	1457.7	617.3	297.0	160.1	124.6	101.3	86.2	75.3	73.9
45°	3242.5	2734.7	1409.8	595.4	282.0	162.9	121.8	95.8	82.1	72.5	67.1
47.5°	3224.7	2794.9	1422.1	588.5	261.4	151.9	120.4	91.7	75.3	67.1	63.0
50°	3323.2	2916.7	1401.6	566.6	246.4	136.9	131.4	91.7	73.9	64.3	60.2
52.5°	3339.6	3027.6	1445.4	527.0	223.1	125.9	130.0	90.3	71.2	61.6	56.1
55°	3476.5	3156.2	1530.2	505.1	203.9	109.5	119.1	87.6	64.3	56.1	53.4
57.5°	3662.7	3423.1	1585.0	484.5	177.9	95.8	99.9	86.2	58.9	52.0	47.9
60°	3842.0	3529.9	1589.1	447.6	153.3	86.2	78.0	86.2	54.7	46.5	42.4
62.5°	3976.1	3529.9	1561.7	416.1	134.1	76.6	68.4	82.1	49.3	41.1	38.3
65°	3903.6	3435.5	1490.5	390.1	121.8	67.1	58.9	63.0	43.8	35.6	32.8
67.5°	3773.5	3141.2	1333.1	358.6	120.4	58.9	50.6	46.5	38.3	31.5	28.7
70°	3565.5	2744.3	1110.0	323.0	117.7	53.4	45.2	39.7	34.2	27.4	24.6
72.5°	2872.9	2266.6	911.6	302.5	115.0	46.5	38.3	34.2	28.7	23.3	20.5
75°	1990.1	1448.1	702.1	258.7	112.2	42.4	35.6	30.1	24.6	19.2	17.8
77.5°	1193.5	967.7	453.0	194.4	73.9	34.2	30.1	23.3	20.5	16.4	15.1
80°	558.4	457.1	183.4	75.3	35.6	24.6	20.5	17.8	16.4	13.7	12.3
82.5°	219.0	193.0	89.0	43.8	28.7	19.2	16.4	15.1	13.7	10.9	9.6
85°	117.7	104.0	42.4	30.1	20.5	13.7	13.7	12.3	10.9	9.6	8.2
87.5°	26.0	19.2	17.8	17.8	15.1	10.9	10.9	9.6	8.2	6.8	5.5
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1
2.5°	1691.7	1712.3	1679.4	1699.9	1671.2	1693.1	1695.8	1675.3	1680.8	1708.1	1720.5
5°	1441.2	1427.6	1397.5	1387.9	1389.2	1371.4	1378.3	1387.9	1402.9	1411.1	1435.8
7.5°	1038.8	1070.3	1069.0	1092.2	1093.6	1090.9	1071.7	1030.6	1044.3	1033.4	1047.1
10°	743.2	756.9	782.9	798.0	825.3	810.3	766.5	750.1	741.8	740.5	754.2
12.5°	594.0	561.2	558.4	563.9	577.6	559.8	537.9	518.7	528.3	547.5	562.5
15°	459.9	432.5	396.9	391.5	394.2	386.0	362.7	338.1	344.9	364.1	375.0
17.5°	353.1	321.6	297.0	280.6	275.1	246.4	212.1	191.6	186.1	184.8	194.4
20°	238.2	232.7	228.6	208.0	208.0	167.0	138.2	123.2	123.2	125.9	127.3
22.5°	177.9	171.1	172.5	168.4	157.4	124.6	109.5	105.4	105.4	108.1	108.1
25°	154.7	145.1	142.3	141.0	130.0	106.8	95.8	91.7	91.7	94.4	94.4
27.5°	131.4	128.7	124.6	119.1	109.5	91.7	84.9	80.8	82.1	83.5	82.1
30°	120.4	113.6	108.1	108.1	97.2	82.1	76.6	73.9	71.2	73.9	75.3
32.5°	106.8	102.7	99.9	95.8	83.5	72.5	67.1	64.3	63.0	63.0	64.3
35°	91.7	91.7	89.0	83.5	72.5	65.7	58.9	56.1	54.7	56.1	56.1
37.5°	82.1	78.0	79.4	73.9	64.3	57.5	50.6	47.9	47.9	46.5	47.9
40°	76.6	69.8	65.7	63.0	57.5	49.3	43.8	41.1	39.7	39.7	39.7
42.5°	68.4	63.0	54.7	53.4	52.0	42.4	35.6	34.2	32.8	31.5	31.5
45°	64.3	56.1	49.3	42.4	42.4	35.6	30.1	27.4	26.0	24.6	26.0
47.5°	58.9	50.6	42.4	35.6	34.2	28.7	23.3	20.5	19.2	19.2	19.2
50°	56.1	45.2	37.0	30.1	26.0	23.3	17.8	15.1	13.7	13.7	13.7
52.5°	52.0	42.4	32.8	26.0	20.5	17.8	13.7	10.9	9.6	9.6	9.6
55°	46.5	38.3	28.7	21.9	17.8	13.7	9.6	6.8	5.5	5.5	5.5
57.5°	43.8	34.2	24.6	19.2	13.7	9.6	5.5	4.1	4.1	2.7	4.1
60°	39.7	30.1	20.5	15.1	10.9	6.8	4.1	1.4	1.4	1.4	1.4
62.5°	34.2	26.0	17.8	12.3	8.2	4.1	1.4	0.0	0.0	0.0	0.0
65°	28.7	20.5	13.7	9.6	5.5	1.4	0.0	0.0	0.0	0.0	0.0
67.5°	24.6	17.8	10.9	6.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	21.9	15.1	8.2	5.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17.8	12.3	6.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.1	9.6	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.3	6.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.6	5.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	1.4	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1
2.5°	1738.3	1730.0	1771.1	1838.2	1872.4	1939.5	1955.9	1998.3	1987.4	2002.4
5°	1438.5	1454.9	1515.2	1613.7	1649.3	1746.5	1838.2	1929.9	1988.7	2017.5
7.5°	1067.6	1122.3	1196.3	1286.6	1378.3	1505.6	1661.6	1768.4	1825.9	1887.4
10°	795.2	854.1	938.9	1027.9	1177.1	1319.4	1475.5	1608.2	1657.5	1715.0
12.5°	625.5	717.2	815.8	911.6	1000.5	1136.0	1329.0	1522.0	1575.4	1619.2
15°	435.2	547.5	688.5	813.0	937.6	1055.3	1255.1	1489.2	1561.7	1635.6
17.5°	240.9	329.9	491.4	666.6	850.0	1030.6	1279.7	1549.4	1658.9	1710.9
20°	139.6	175.2	290.2	498.2	740.5	977.3	1292.1	1663.0	1808.1	1834.1
22.5°	115.0	127.3	164.2	312.1	606.3	943.0	1355.0	1821.8	1969.6	2031.2
25°	98.5	108.1	127.3	187.5	458.5	870.5	1394.7	2020.2	2157.1	2224.2
27.5°	87.6	97.2	112.2	138.2	312.1	770.6	1460.4	2199.5	2336.4	2428.1
30°	76.6	84.9	99.9	117.7	216.3	658.3	1516.5	2330.9	2523.9	2552.6
32.5°	68.4	75.3	86.2	101.3	160.1	499.6	1561.7	2466.4	2629.3	2692.2
35°	58.9	67.1	73.9	86.2	121.8	376.4	1534.3	2571.8	2784.0	2859.2
37.5°	52.0	57.5	64.3	72.5	102.7	294.3	1478.2	2697.7	2916.7	2986.5
40°	43.8	47.9	56.1	64.3	93.1	227.2	1413.9	2849.7	3102.9	3226.0
42.5°	37.0	41.1	46.5	60.2	76.6	168.4	1283.8	2967.4	3253.4	3357.4
45°	28.7	34.2	42.4	60.2	61.6	124.6	1149.7	3055.0	3338.3	3390.3
47.5°	21.9	27.4	41.1	52.0	49.3	86.2	990.9	3154.9	3425.9	3473.8
50°	16.4	21.9	46.5	45.2	41.1	65.7	891.0	3224.7	3431.4	3457.4
52.5°	10.9	16.4	38.3	34.2	34.2	57.5	863.7	3221.9	3445.0	3388.9
55°	8.2	12.3	21.9	24.6	30.1	50.6	839.0	3324.6	3449.1	3488.8
57.5°	5.5	9.6	15.1	19.2	26.0	43.8	788.4	3447.8	3576.4	3597.0
60°	2.7	6.8	10.9	15.1	21.9	38.3	717.2	3538.1	3731.1	3753.0
62.5°	1.4	4.1	8.2	12.3	17.8	30.1	643.3	3394.4	3664.0	3702.4
65°	0.0	2.7	5.5	8.2	10.9	21.9	522.8	3064.5	3398.5	3539.5
67.5°	0.0	0.0	2.7	5.5	6.8	16.4	394.2	2788.1	3153.5	3345.1
70°	0.0	0.0	1.4	1.4	4.1	12.3	251.8	2309.0	2815.4	2920.8
72.5°	0.0	0.0	0.0	0.0	1.4	8.2	146.5	1715.0	2206.4	2402.1
75°	0.0	0.0	0.0	0.0	0.0	6.8	73.9	1103.2	1535.7	1798.5
77.5°	0.0	0.0	0.0	0.0	0.0	5.5	39.7	711.7	1131.9	1352.3
80°	0.0	0.0	0.0	0.0	0.0	1.4	23.3	413.3	724.0	877.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.6	202.6	432.5	506.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	108.1	216.3	284.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	15.1	28.7
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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