

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: P677276

Luminaire Tested: **CCW-SA-1F-735-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677276  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-735-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

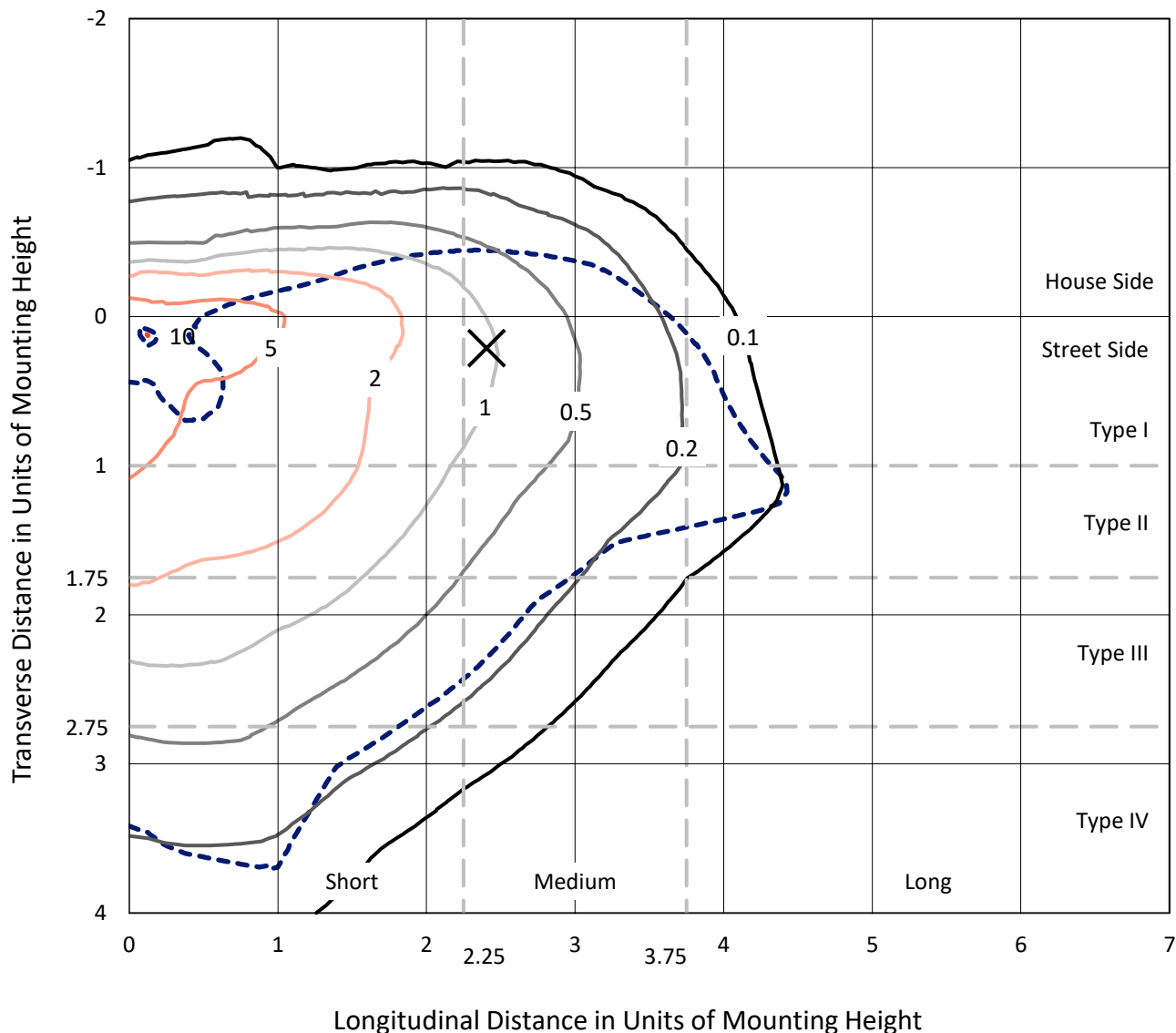
Lumens per Lamp: N/A  
Luminaire Lumens: 5365.3 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

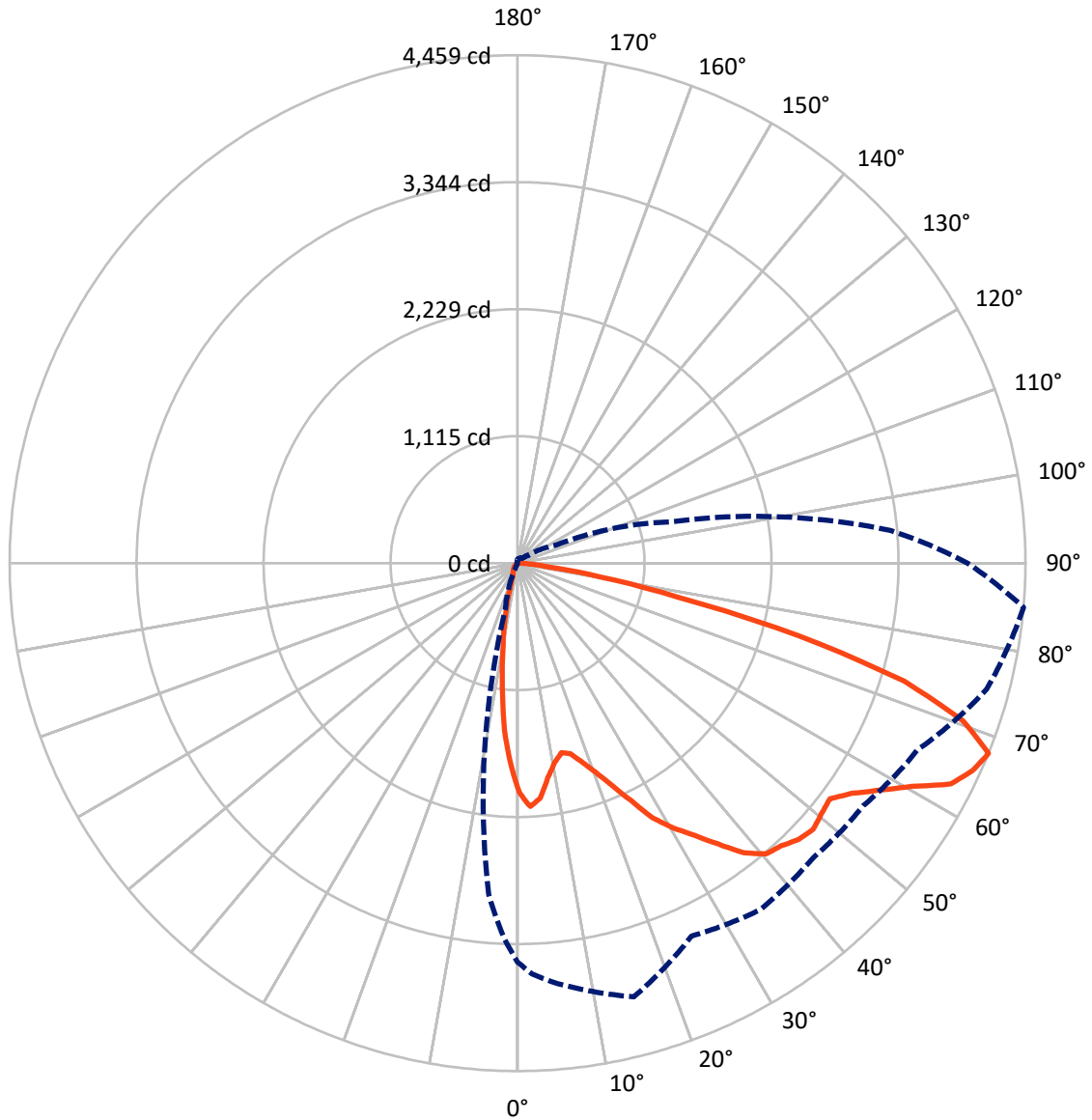
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.1 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	931.6	0.0	931.6
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	4433.7	0.0	4433.7
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	5365.3	0.0	5365.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.3	2.9
10°-20°	300.5	5.6
20°-30°	415.9	7.8
30°-40°	587.7	11.0
40°-50°	800.2	14.9
50°-60°	1059.8	19.8
60°-70°	1230.6	22.9
70°-80°	696.9	13.0
80°-90°	120.4	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°	5365.3	100.0
0°-180°	5365.3	100.0



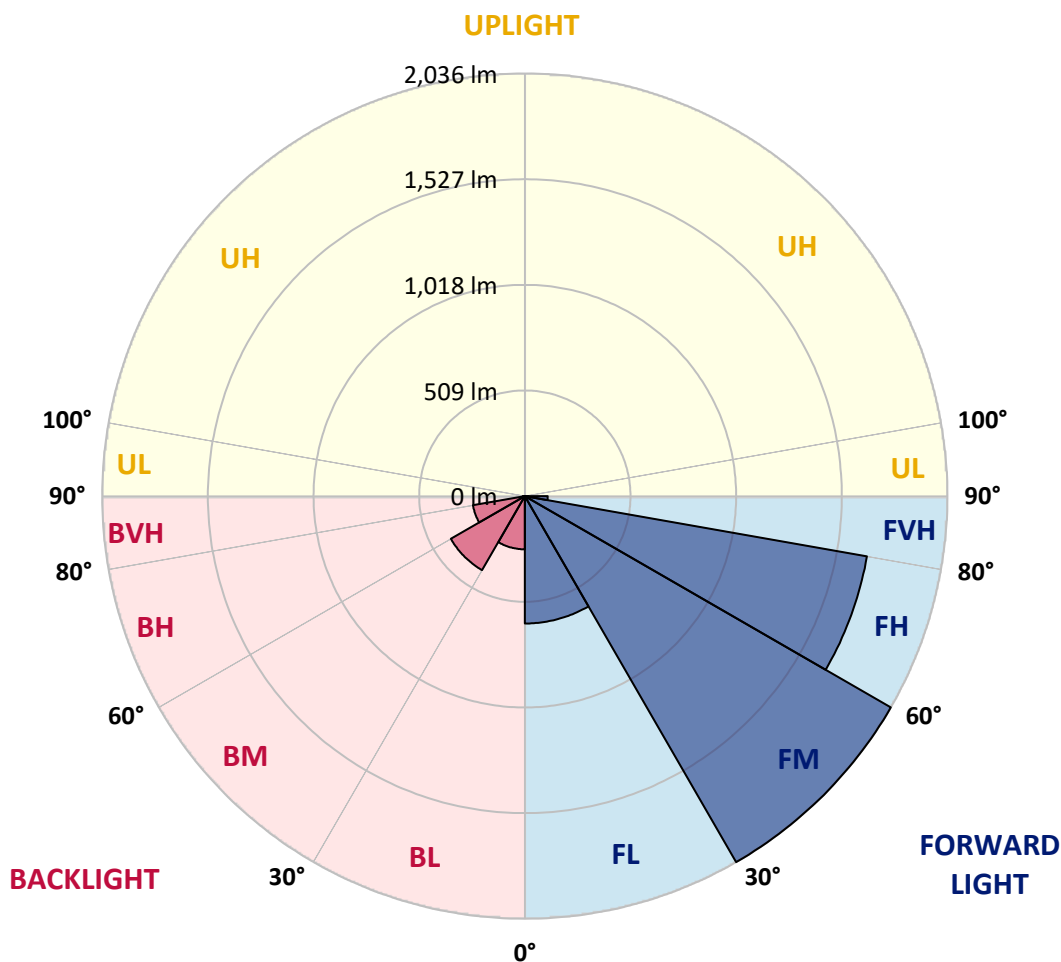
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.6	11.4			
FM (30°-60°)	2036.2	38.0			
FH (60°-80°)	1673.7	31.2			G1/1800
FVH (80°-90°)	110.3	2.1			G2/225
BL (0°-30°)	256.1	4.8	B1/500		
BM (30°-60°)	411.6	7.7	B1/1000		
BH (60°-80°)	253.7	4.7	B1/500		G1/500
BVH (80°-90°)	10.1	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3
2.5°	2096.1	2140.5	2142.0	2162.0	2182.1	2182.1	2229.4	2217.9	2176.4	2169.2	2139.1
5°	2111.9	2127.7	2139.1	2240.8	2326.8	2318.2	2344.0	2326.8	2246.6	2143.4	2073.2
7.5°	1975.8	1993.0	2038.8	2212.2	2328.2	2366.9	2415.6	2308.2	2223.6	2037.4	1902.7
10°	1795.3	1828.2	1912.7	2110.5	2253.7	2377.0	2377.0	2291.0	2127.7	1945.7	1780.9
12.5°	1695.0	1760.9	1806.7	2007.3	2193.6	2278.1	2275.2	2229.4	2123.4	1894.1	1707.9
15°	1712.2	1730.8	1828.2	1984.4	2107.6	2103.3	2154.9	2140.5	2066.0	1940.0	1735.1
17.5°	1791.0	1819.6	1904.1	1984.4	2043.1	2025.9	2024.5	2093.3	2097.6	2017.3	1836.8
20°	1919.9	2004.4	2044.6	2068.9	1997.3	1924.2	1915.6	2011.6	2086.1	2116.2	1958.6
22.5°	2126.2	2182.1	2263.8	2139.1	1952.9	1861.2	1844.0	1950.0	2100.4	2233.7	2116.2
25°	2328.2	2371.2	2450.0	2289.6	2003.0	1848.3	1818.2	1909.9	2154.9	2397.0	2306.7
27.5°	2541.7	2579.0	2587.6	2399.9	2030.2	1822.5	1786.7	1909.9	2200.7	2483.0	2534.6
30°	2672.1	2716.5	2725.1	2497.3	2074.6	1844.0	1826.8	1918.5	2232.2	2556.0	2697.9
32.5°	2818.2	2829.7	2822.5	2514.5	2123.4	1907.0	1835.4	1975.8	2268.1	2643.4	2846.9
35°	2993.0	3013.1	2940.0	2593.3	2232.2	1947.1	1921.3	2046.0	2329.7	2683.6	3027.4
37.5°	3126.3	3189.3	3024.6	2623.4	2253.7	2031.7	2036.0	2192.1	2372.7	2732.3	3226.6
40°	3377.0	3271.0	3167.8	2726.5	2335.4	2174.9	2152.0	2342.6	2517.4	2763.8	3357.0
42.5°	3514.6	3458.7	3223.7	2736.6	2461.5	2372.7	2378.4	2513.1	2593.3	2852.6	3392.8
45°	3549.0	3490.2	3299.7	2743.7	2586.1	2606.2	2705.1	2730.8	2705.1	2911.4	3460.1
47.5°	3636.3	3508.8	3291.1	2839.7	2788.2	2865.5	2991.6	3047.5	2856.9	2889.9	3491.6
50°	3619.2	3546.1	3272.4	2879.9	3034.6	3239.5	3324.0	3301.1	3026.0	2845.5	3457.3
52.5°	3547.5	3468.7	3329.7	2988.7	3265.3	3513.1	3630.6	3573.3	3176.4	2945.8	3434.3
55°	3652.1	3591.9	3404.2	3136.3	3438.6	3753.8	3836.9	3794.0	3361.3	3038.9	3564.7
57.5°	3765.3	3752.4	3606.3	3309.7	3643.5	4001.7	4001.7	3948.7	3521.7	3173.6	3758.1
60°	3928.6	3957.3	3755.3	3424.3	3713.7	3987.4	4195.1	4133.5	3683.6	3410.0	3977.3
62.5°	3875.6	3967.3	3947.3	3670.7	3794.0	4057.6	4170.8	4216.6	3884.2	3698.0	4269.6
65°	3705.1	3802.6	3945.8	3832.6	3733.8	3887.1	3944.4	4083.4	3984.5	3968.8	4390.0
67.5°	3501.7	3607.7	3696.5	3941.5	3612.0	3713.7	3663.6	3708.0	3875.6	4265.3	4458.8
70°	3057.5	3159.2	3299.7	3699.4	3289.6	3197.9	3185.0	3163.5	3424.3	4159.3	4146.4
72.5°	2514.5	2561.8	2793.9	3007.4	2434.3	2417.1	2437.1	2412.8	2715.1	3765.3	3551.8
75°	1882.6	1929.9	2061.7	2309.6	1657.7	1558.8	1673.5	1786.7	2073.2	2922.8	2551.7
77.5°	1415.6	1475.7	1558.8	1727.9	1216.4	1061.7	1077.4	1184.9	1498.7	2341.1	1429.9
80°	918.4	911.2	1071.7	1189.2	915.5	944.2	904.1	982.9	1086.0	1252.2	730.7
82.5°	530.1	537.3	604.6	682.0	637.6	729.3	525.8	878.3	775.1	510.1	272.2
85°	298.0	310.9	372.5	472.8	399.7	267.9	219.2	435.6	487.1	209.2	131.8
87.5°	30.1	25.8	50.1	179.1	108.9	44.4	65.9	104.6	117.5	78.8	38.7
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°	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3
2.5°	2096.1	2096.1	2060.3	2000.1	1975.8	1932.8	1874.1	1892.7	1872.6	1799.5	1780.9
5°	2010.2	1941.4	1866.9	1775.2	1722.2	1613.3	1578.9	1517.3	1527.3	1465.7	1468.6
7.5°	1831.1	1776.6	1650.5	1530.2	1425.6	1331.0	1197.8	1147.6	1098.9	1074.6	1103.2
10°	1726.5	1624.8	1452.8	1295.2	1156.2	1071.7	982.9	914.1	851.1	803.8	793.8
12.5°	1650.5	1560.3	1352.5	1160.5	1051.6	982.9	901.2	806.6	745.0	663.4	639.0
15°	1627.6	1517.3	1298.1	1107.5	1001.5	888.3	795.2	702.1	621.8	535.9	505.8
17.5°	1706.4	1578.9	1296.6	1064.5	915.5	793.8	664.8	560.2	478.5	399.7	381.1
20°	1839.7	1644.8	1338.2	1038.8	833.9	670.5	524.4	419.8	328.1	276.5	263.6
22.5°	1991.5	1756.6	1342.5	970.0	752.2	547.3	382.5	276.5	224.9	200.6	193.4
25°	2177.8	1935.7	1394.1	914.1	656.2	415.5	272.2	212.0	182.0	167.6	164.8
27.5°	2331.1	2060.3	1450.0	855.4	561.6	308.0	213.5	173.4	157.6	143.3	141.8
30°	2490.1	2203.6	1465.7	819.5	480.0	253.6	183.4	153.3	136.1	128.9	127.5
32.5°	2629.1	2359.8	1515.9	760.8	402.6	223.5	166.2	137.5	126.1	114.6	113.2
35°	2808.2	2450.0	1540.2	729.3	374.0	202.0	151.9	126.1	108.9	101.7	98.9
37.5°	3000.2	2537.4	1556.0	704.9	349.6	189.1	143.3	118.9	103.2	93.1	90.3
40°	3179.3	2660.6	1533.1	674.8	331.0	173.4	137.5	110.3	96.0	86.0	81.7
42.5°	3316.8	2781.0	1525.9	646.2	310.9	167.6	130.4	106.0	90.3	78.8	77.4
45°	3394.2	2862.7	1475.7	623.3	295.1	170.5	127.5	100.3	86.0	75.9	70.2
47.5°	3375.6	2925.7	1488.6	616.1	273.7	159.0	126.1	96.0	78.8	70.2	65.9
50°	3478.7	3053.2	1467.1	593.2	257.9	143.3	137.5	96.0	77.4	67.3	63.0
52.5°	3495.9	3169.3	1513.0	551.6	233.5	131.8	136.1	94.6	74.5	64.5	58.7
55°	3639.2	3303.9	1601.8	528.7	213.5	114.6	124.7	91.7	67.3	58.7	55.9
57.5°	3834.1	3583.3	1659.1	507.2	186.3	100.3	104.6	90.3	61.6	54.4	50.1
60°	4021.8	3695.1	1663.4	468.5	160.5	90.3	81.7	90.3	57.3	48.7	44.4
62.5°	4162.2	3695.1	1634.8	435.6	140.4	80.2	71.6	86.0	51.6	43.0	40.1
65°	4086.2	3596.2	1560.3	408.3	127.5	70.2	61.6	65.9	45.8	37.3	34.4
67.5°	3950.1	3288.2	1395.5	375.4	126.1	61.6	53.0	48.7	40.1	33.0	30.1
70°	3732.3	2872.7	1162.0	338.1	123.2	55.9	47.3	41.6	35.8	28.7	25.8
72.5°	3007.4	2372.7	954.2	316.6	120.4	48.7	40.1	35.8	30.1	24.4	21.5
75°	2083.2	1515.9	735.0	270.8	117.5	44.4	37.3	31.5	25.8	20.1	18.6
77.5°	1249.4	1013.0	474.2	203.5	77.4	35.8	31.5	24.4	21.5	17.2	15.8
80°	584.6	478.5	192.0	78.8	37.3	25.8	21.5	18.6	17.2	14.3	12.9
82.5°	229.2	202.0	93.1	45.8	30.1	20.1	17.2	15.8	14.3	11.5	10.0
85°	123.2	108.9	44.4	31.5	21.5	14.3	14.3	12.9	11.5	10.0	8.6
87.5°	27.2	20.1	18.6	18.6	15.8	11.5	11.5	10.0	8.6	7.2	5.7
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°	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3
2.5°	1770.9	1792.4	1758.0	1779.5	1749.4	1772.3	1775.2	1753.7	1759.4	1788.1	1801.0
5°	1508.7	1494.4	1462.8	1452.8	1454.3	1435.6	1442.8	1452.8	1468.6	1477.2	1503.0
7.5°	1087.5	1120.4	1119.0	1143.3	1144.8	1141.9	1121.9	1078.9	1093.2	1081.7	1096.1
10°	778.0	792.3	819.5	835.3	864.0	848.2	802.3	785.2	776.6	775.1	789.5
12.5°	621.8	587.4	584.6	590.3	604.6	586.0	563.1	543.0	553.0	573.1	588.9
15°	481.4	452.8	415.5	409.8	412.6	404.0	379.7	353.9	361.1	381.1	392.6
17.5°	369.7	336.7	310.9	293.7	288.0	257.9	222.1	200.6	194.9	193.4	203.5
20°	249.3	243.6	239.3	217.8	217.8	174.8	144.7	128.9	128.9	131.8	133.2
22.5°	186.3	179.1	180.5	176.2	164.8	130.4	114.6	110.3	110.3	113.2	113.2
25°	161.9	151.9	149.0	147.6	136.1	111.8	100.3	96.0	96.0	98.9	98.9
27.5°	137.5	134.7	130.4	124.7	114.6	96.0	88.8	84.5	86.0	87.4	86.0
30°	126.1	118.9	113.2	113.2	101.7	86.0	80.2	77.4	74.5	77.4	78.8
32.5°	111.8	107.5	104.6	100.3	87.4	75.9	70.2	67.3	65.9	65.9	67.3
35°	96.0	96.0	93.1	87.4	75.9	68.8	61.6	58.7	57.3	58.7	58.7
37.5°	86.0	81.7	83.1	77.4	67.3	60.2	53.0	50.1	50.1	48.7	50.1
40°	80.2	73.1	68.8	65.9	60.2	51.6	45.8	43.0	41.6	41.6	41.6
42.5°	71.6	65.9	57.3	55.9	54.4	44.4	37.3	35.8	34.4	33.0	33.0
45°	67.3	58.7	51.6	44.4	44.4	37.3	31.5	28.7	27.2	25.8	27.2
47.5°	61.6	53.0	44.4	37.3	35.8	30.1	24.4	21.5	20.1	20.1	20.1
50°	58.7	47.3	38.7	31.5	27.2	24.4	18.6	15.8	14.3	14.3	14.3
52.5°	54.4	44.4	34.4	27.2	21.5	18.6	14.3	11.5	10.0	10.0	10.0
55°	48.7	40.1	30.1	22.9	18.6	14.3	10.0	7.2	5.7	5.7	5.7
57.5°	45.8	35.8	25.8	20.1	14.3	10.0	5.7	4.3	4.3	2.9	4.3
60°	41.6	31.5	21.5	15.8	11.5	7.2	4.3	1.4	1.4	1.4	1.4
62.5°	35.8	27.2	18.6	12.9	8.6	4.3	1.4	0.0	0.0	0.0	0.0
65°	30.1	21.5	14.3	10.0	5.7	1.4	0.0	0.0	0.0	0.0	0.0
67.5°	25.8	18.6	11.5	7.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	22.9	15.8	8.6	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	18.6	12.9	7.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.8	10.0	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.9	7.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.0	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	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°	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3
2.5°	1819.6	1811.0	1854.0	1924.2	1960.0	2030.2	2047.4	2091.8	2080.4	2096.1
5°	1505.8	1523.0	1586.1	1689.2	1726.5	1828.2	1924.2	2020.2	2081.8	2111.9
7.5°	1117.6	1174.9	1252.2	1346.8	1442.8	1576.0	1739.4	1851.1	1911.3	1975.8
10°	832.4	894.0	982.9	1076.0	1232.2	1381.2	1544.5	1683.5	1735.1	1795.3
12.5°	654.8	750.8	853.9	954.2	1047.3	1189.2	1391.2	1593.2	1649.1	1695.0
15°	455.6	573.1	720.7	851.1	981.4	1104.7	1313.8	1558.8	1634.8	1712.2
17.5°	252.2	345.3	514.4	697.8	889.7	1078.9	1339.6	1621.9	1736.5	1791.0
20°	146.1	183.4	303.7	521.5	775.1	1023.0	1352.5	1740.8	1892.7	1919.9
22.5°	120.4	133.2	171.9	326.7	634.7	987.2	1418.4	1907.0	2061.7	2126.2
25°	103.2	113.2	133.2	196.3	480.0	911.2	1460.0	2114.8	2258.0	2328.2
27.5°	91.7	101.7	117.5	144.7	326.7	806.6	1528.8	2302.4	2445.7	2541.7
30°	80.2	88.8	104.6	123.2	226.4	689.2	1587.5	2440.0	2642.0	2672.1
32.5°	71.6	78.8	90.3	106.0	167.6	523.0	1634.8	2581.8	2752.3	2818.2
35°	61.6	70.2	77.4	90.3	127.5	394.0	1606.1	2692.2	2914.2	2993.0
37.5°	54.4	60.2	67.3	75.9	107.5	308.0	1547.4	2824.0	3053.2	3126.3
40°	45.8	50.1	58.7	67.3	97.4	237.8	1480.0	2983.0	3248.1	3377.0
42.5°	38.7	43.0	48.7	63.0	80.2	176.2	1343.9	3106.2	3405.7	3514.6
45°	30.1	35.8	44.4	63.0	64.5	130.4	1203.5	3197.9	3494.5	3549.0
47.5°	22.9	28.7	43.0	54.4	51.6	90.3	1037.3	3302.5	3586.2	3636.3
50°	17.2	22.9	48.7	47.3	43.0	68.8	932.7	3375.6	3591.9	3619.2
52.5°	11.5	17.2	40.1	35.8	35.8	60.2	904.1	3372.7	3606.3	3547.5
55°	8.6	12.9	22.9	25.8	31.5	53.0	878.3	3480.2	3610.6	3652.1
57.5°	5.7	10.0	15.8	20.1	27.2	45.8	825.3	3609.1	3743.8	3765.3
60°	2.9	7.2	11.5	15.8	22.9	40.1	750.8	3703.7	3905.7	3928.6
62.5°	1.4	4.3	8.6	12.9	18.6	31.5	673.4	3553.2	3835.5	3875.6
65°	0.0	2.9	5.7	8.6	11.5	22.9	547.3	3208.0	3557.5	3705.1
67.5°	0.0	0.0	2.9	5.7	7.2	17.2	412.6	2918.5	3301.1	3501.7
70°	0.0	0.0	1.4	1.4	4.3	12.9	263.6	2417.1	2947.2	3057.5
72.5°	0.0	0.0	0.0	0.0	1.4	8.6	153.3	1795.3	2309.6	2514.5
75°	0.0	0.0	0.0	0.0	0.0	7.2	77.4	1154.8	1607.6	1882.6
77.5°	0.0	0.0	0.0	0.0	0.0	5.7	41.6	745.0	1184.9	1415.6
80°	0.0	0.0	0.0	0.0	0.0	1.4	24.4	432.7	757.9	918.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.0	212.0	452.8	530.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	113.2	226.4	298.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	15.8	30.1
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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