

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: P675825

Luminaire Tested: **CCW-SA-1F-730-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675825  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-730-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/  
SLL distribution lens  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

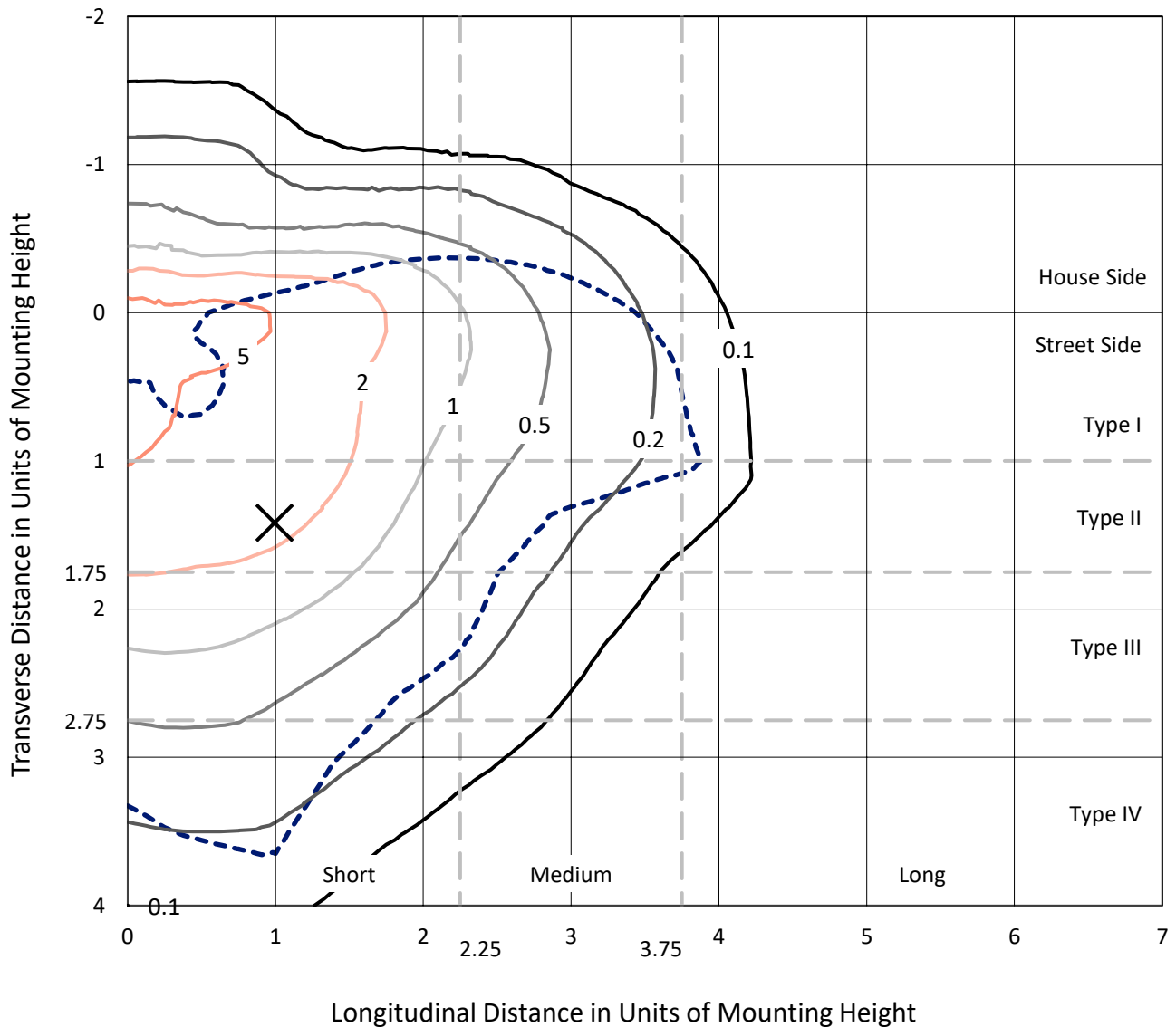
Lumens per Lamp: N/A  
Luminaire Lumens: 5664.9 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

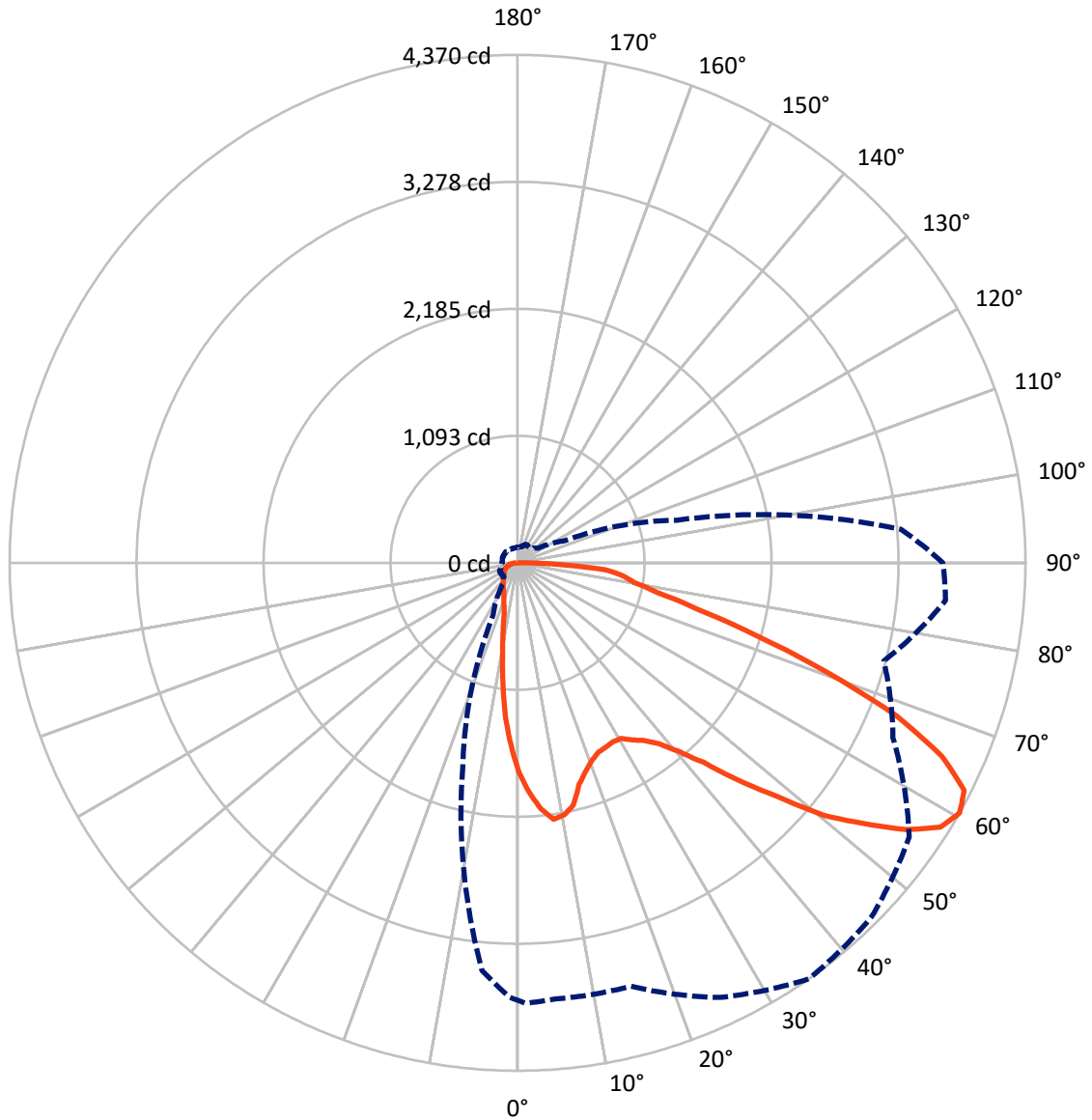
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.2 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	1078.1	0.0	1078.1
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	4586.8	0.0	4586.8
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	5664.9	0.0	5664.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.6	2.5
10°-20°	296.8	5.2
20°-30°	434.2	7.7
30°-40°	611.8	10.8
40°-50°	840.8	14.8
50°-60°	1145.9	20.2
60°-70°	1254.1	22.1
70°-80°	724.0	12.8
80°-90°	216.8	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°	5664.9	100.0
0°-180°	5664.9	100.0

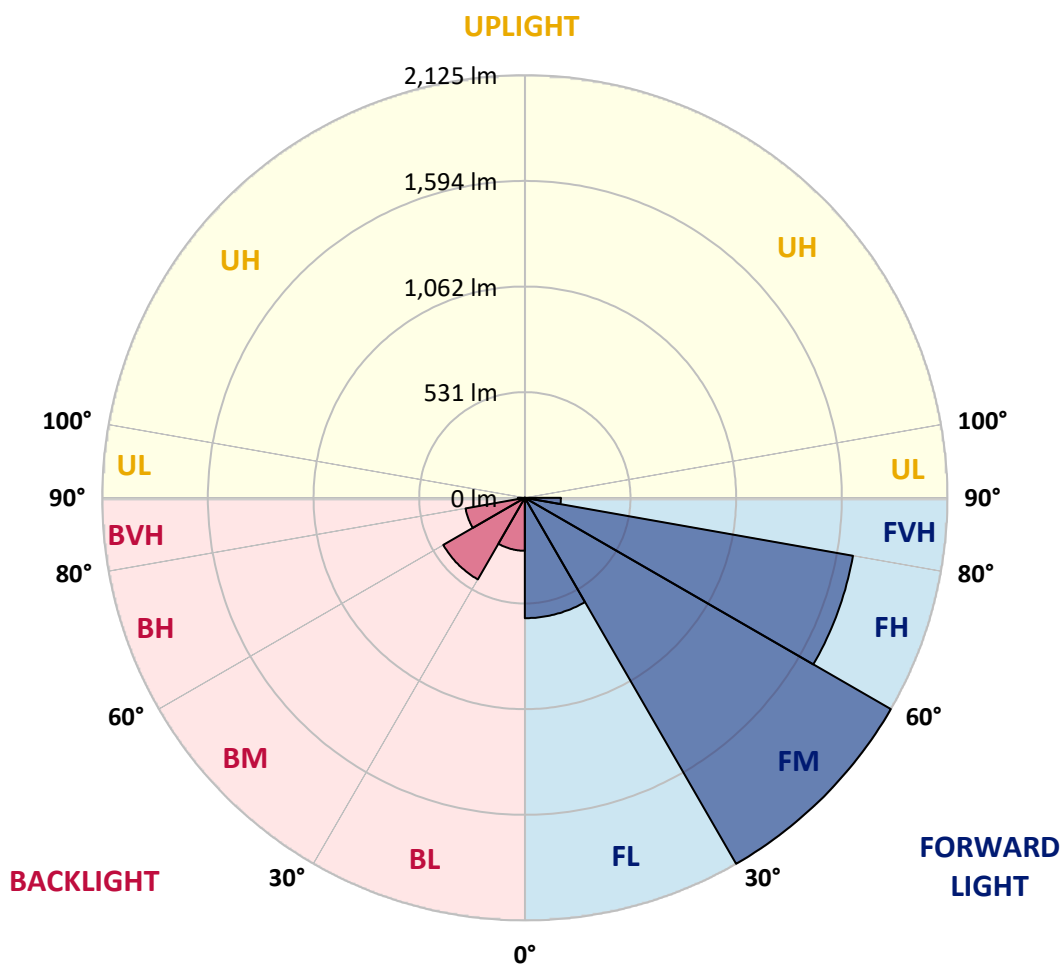


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.2	10.7			
FM (30°-60°)	2124.8	37.5			
FH (60°-80°)	1675.3	29.6			G1/1800
FVH (80°-90°)	181.5	3.2			G2/225
BL (0°-30°)	266.4	4.7	B1/500		
BM (30°-60°)	473.6	8.4	B1/1000		
BH (60°-80°)	302.8	5.3	B1/500		G1/500
BVH (80°-90°)	35.3	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°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3
2.5°	1937.5	1929.9	1937.5	1965.1	1972.7	1985.2	1985.2	1967.6	1935.0	1919.9	1894.8
5°	1980.2	1967.6	2030.5	2088.3	2133.5	2128.5	2085.7	2050.6	1985.2	1887.2	1794.2
7.5°	1894.8	1907.3	1952.6	2103.3	2208.9	2229.0	2161.1	2090.8	1950.0	1814.4	1688.7
10°	1733.9	1751.5	1849.5	2005.3	2171.2	2203.9	2161.1	2075.7	1907.3	1739.0	1593.2
12.5°	1656.0	1696.2	1754.0	1942.5	2060.6	2138.5	2118.4	2063.1	1874.7	1676.1	1535.4
15°	1656.0	1666.1	1751.5	1909.8	1977.7	1980.2	1987.7	1997.8	1884.7	1703.8	1515.3
17.5°	1708.8	1736.4	1809.3	1907.3	1919.9	1889.7	1889.7	1932.5	1904.8	1781.7	1588.2
20°	1837.0	1826.9	1922.4	1962.6	1894.8	1819.4	1811.8	1884.7	1927.4	1864.6	1721.4
22.5°	1965.1	2010.4	2088.3	1997.8	1872.1	1771.6	1761.6	1852.0	1995.3	2007.8	1874.7
25°	2158.6	2203.9	2244.1	2133.5	1869.6	1759.1	1766.6	1837.0	2078.2	2211.4	2131.0
27.5°	2367.2	2394.8	2452.6	2281.8	1929.9	1744.0	1751.5	1857.1	2156.1	2344.6	2332.0
30°	2485.3	2515.5	2502.9	2309.4	1970.2	1754.0	1733.9	1884.7	2113.4	2344.6	2462.7
32.5°	2600.9	2583.3	2575.8	2354.6	2020.4	1816.9	1766.6	1942.5	2138.5	2382.3	2631.1
35°	2741.6	2716.5	2696.4	2442.6	2103.3	1877.2	1854.6	2017.9	2193.8	2460.2	2766.8
37.5°	2897.4	2897.4	2799.4	2507.9	2201.3	1975.2	1950.0	2126.0	2281.8	2507.9	2952.7
40°	3080.9	3088.4	2915.0	2595.9	2311.9	2131.0	2123.4	2266.7	2367.2	2578.3	3131.1
42.5°	3216.6	3221.6	3015.5	2628.5	2440.1	2347.1	2379.8	2492.8	2465.2	2641.1	3143.7
45°	3309.6	3284.4	3085.9	2721.5	2580.8	2671.3	2681.3	2714.0	2593.4	2678.8	3194.0
47.5°	3354.8	3349.8	3116.1	2829.6	2877.3	3000.5	3058.3	3013.0	2711.5	2638.6	3194.0
50°	3400.0	3357.3	3143.7	2977.8	3166.3	3415.1	3402.5	3319.6	2874.8	2688.9	3146.2
52.5°	3430.2	3392.5	3199.0	3111.0	3442.7	3724.2	3774.5	3621.2	3065.8	2781.8	3168.8
55°	3538.2	3508.1	3364.8	3292.0	3761.9	4050.9	4058.4	3844.8	3266.8	2935.1	3317.1
57.5°	3668.9	3686.5	3593.5	3548.3	4005.6	4289.6	4262.0	4010.7	3437.7	3121.1	3488.0
60°	3761.9	3789.5	3766.9	3771.9	4126.3	4370.0	4307.2	4113.7	3563.4	3261.8	3696.6
62.5°	3711.6	3766.9	3859.9	3839.8	4131.3	4312.2	4224.3	3978.0	3578.4	3445.3	3854.9
65°	3573.4	3578.4	3759.4	3869.9	3905.1	4013.2	3897.6	3694.0	3422.6	3558.3	3832.2
67.5°	3219.1	3259.3	3422.6	3638.8	3490.5	3515.6	3505.6	3211.6	3186.4	3480.4	3658.9
70°	2842.1	2869.8	3048.2	3302.0	2947.7	2829.6	2852.2	2633.6	2736.6	3239.2	3309.6
72.5°	2349.6	2367.2	2570.7	2794.4	2364.7	2153.6	2206.4	2028.0	2173.7	2834.6	2791.9
75°	1774.1	1806.8	1965.1	2229.0	1741.5	1605.8	1658.5	1585.7	1721.4	2334.5	2166.2
77.5°	1261.5	1236.4	1432.4	1744.0	1309.2	1228.8	1233.9	1246.4	1392.2	1967.6	1555.5
80°	859.4	867.0	1042.9	1279.1	1027.8	1015.2	1002.7	1103.2	1168.5	1558.0	1130.8
82.5°	510.1	510.1	703.6	909.7	811.7	914.7	856.9	947.4	914.7	1145.9	741.3
85°	238.7	238.7	361.9	655.9	628.2	753.9	640.8	716.2	676.0	799.1	334.2
87.5°	40.2	35.2	72.9	321.7	258.8	294.0	115.6	382.0	424.7	557.9	82.9
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3
2.5°	1867.1	1849.5	1814.4	1769.1	1731.4	1683.7	1668.6	1635.9	1590.7	1585.7	1565.6
5°	1759.1	1698.8	1623.4	1530.4	1467.6	1402.2	1346.9	1314.3	1276.6	1271.6	1261.5
7.5°	1641.0	1565.6	1439.9	1329.4	1221.3	1118.3	1068.0	1005.2	962.5	929.8	914.7
10°	1530.4	1460.0	1304.2	1153.4	1058.0	990.1	929.8	864.5	811.7	771.5	756.4
12.5°	1457.5	1374.6	1206.2	1063.0	992.6	914.7	846.9	776.5	708.7	655.9	628.2
15°	1424.8	1346.9	1176.1	1017.7	914.7	806.7	728.8	658.4	575.5	537.8	525.2
17.5°	1502.7	1387.1	1166.0	965.0	819.2	696.1	600.6	525.2	464.9	427.2	412.1
20°	1603.3	1460.0	1183.6	902.1	728.8	590.5	485.0	404.6	364.4	336.7	334.2
22.5°	1731.4	1568.1	1211.2	856.9	628.2	474.9	379.5	331.7	304.1	301.6	296.5
25°	1960.1	1764.1	1256.5	796.6	547.8	392.0	324.2	296.5	284.0	276.4	281.5
27.5°	2156.1	1892.3	1289.1	758.9	515.2	369.4	314.1	284.0	271.4	268.9	271.4
30°	2271.7	2010.4	1279.1	688.5	449.8	351.8	334.2	324.2	299.0	278.9	278.9
32.5°	2377.3	2085.7	1276.6	625.7	384.5	294.0	278.9	271.4	286.5	296.5	289.0
35°	2523.0	2203.9	1269.0	590.5	356.8	271.4	246.3	226.2	216.1	211.1	218.6
37.5°	2678.8	2284.3	1248.9	585.5	341.8	258.8	238.7	218.6	208.6	203.5	201.0
40°	2849.7	2369.7	1226.3	560.4	334.2	251.3	231.2	213.6	201.0	193.5	191.0
42.5°	2960.3	2437.6	1203.7	547.8	319.1	246.3	223.7	208.6	196.0	186.0	186.0
45°	3023.1	2518.0	1181.1	535.3	301.6	248.8	223.7	203.5	188.5	183.4	178.4
47.5°	3050.7	2578.3	1173.5	515.2	286.5	238.7	218.6	198.5	183.4	173.4	170.9
50°	3123.6	2706.4	1201.2	500.1	268.9	228.7	231.2	196.0	180.9	168.4	165.9
52.5°	3166.3	2809.5	1261.5	477.5	256.3	216.1	226.2	191.0	173.4	160.8	160.8
55°	3322.1	2980.4	1326.8	459.9	241.2	198.5	208.6	180.9	160.8	153.3	153.3
57.5°	3520.6	3161.3	1382.1	452.3	231.2	186.0	186.0	175.9	153.3	143.2	140.7
60°	3658.9	3309.6	1414.8	447.3	221.1	173.4	165.9	175.9	145.8	135.7	133.2
62.5°	3673.9	3224.1	1382.1	444.8	218.6	160.8	150.8	168.4	138.2	128.2	123.1
65°	3578.4	3050.7	1291.7	434.7	216.1	148.3	140.7	145.8	128.2	120.6	115.6
67.5°	3387.5	2769.3	1161.0	429.7	213.6	138.2	128.2	125.6	118.1	110.6	105.5
70°	2942.7	2402.4	1007.7	407.1	208.6	130.7	115.6	113.1	105.5	100.5	98.0
72.5°	2470.2	1965.1	831.8	376.9	198.5	118.1	105.5	100.5	98.0	90.5	88.0
75°	1892.3	1512.8	665.9	334.2	173.4	105.5	93.0	88.0	85.4	80.4	77.9
77.5°	1329.4	1125.8	492.5	271.4	145.8	95.5	82.9	77.9	75.4	67.8	67.8
80°	902.1	789.1	334.2	188.5	113.1	77.9	72.9	67.8	62.8	57.8	57.8
82.5°	560.4	552.8	241.2	123.1	82.9	62.8	57.8	57.8	50.3	45.2	45.2
85°	256.3	339.2	168.4	85.4	62.8	47.7	47.7	45.2	40.2	32.7	32.7
87.5°	80.4	113.1	88.0	37.7	35.2	27.6	27.6	25.1	25.1	20.1	20.1
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°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3
2.5°	1585.7	1583.2	1583.2	1573.1	1598.2	1598.2	1613.3	1600.7	1608.3	1610.8	1630.9
5°	1259.0	1279.1	1294.2	1324.3	1341.9	1349.5	1349.5	1369.6	1362.0	1377.1	1407.3
7.5°	922.3	947.4	992.6	1030.3	1060.5	1070.5	1068.0	1073.0	1080.6	1063.0	1068.0
10°	746.3	728.8	743.8	779.0	806.7	839.3	814.2	811.7	819.2	811.7	826.8
12.5°	623.2	603.1	590.5	590.5	610.6	625.7	618.2	630.8	658.4	665.9	683.5
15°	505.1	487.5	477.5	464.9	485.0	490.0	497.6	515.2	535.3	545.3	565.4
17.5°	404.6	404.6	404.6	394.5	402.1	409.6	412.1	434.7	437.3	447.3	454.8
20°	331.7	339.2	351.8	356.8	364.4	364.4	359.4	371.9	361.9	369.4	374.4
22.5°	299.0	309.1	314.1	316.6	326.7	329.2	316.6	319.1	321.7	314.1	316.6
25°	281.5	286.5	281.5	284.0	286.5	281.5	284.0	289.0	286.5	291.5	289.0
27.5°	273.9	268.9	266.4	263.9	263.9	258.8	261.3	261.3	266.4	268.9	268.9
30°	273.9	266.4	256.3	248.8	248.8	241.2	246.3	251.3	253.8	258.8	258.8
32.5°	281.5	266.4	248.8	241.2	233.7	228.7	233.7	241.2	251.3	253.8	256.3
35°	223.7	231.2	228.7	218.6	216.1	216.1	213.6	213.6	206.1	206.1	203.5
37.5°	201.0	198.5	203.5	206.1	208.6	201.0	201.0	191.0	188.5	191.0	191.0
40°	188.5	188.5	188.5	196.0	198.5	193.5	186.0	180.9	180.9	180.9	183.4
42.5°	183.4	178.4	175.9	180.9	188.5	183.4	175.9	173.4	173.4	175.9	175.9
45°	175.9	173.4	170.9	168.4	178.4	170.9	168.4	165.9	165.9	165.9	168.4
47.5°	168.4	165.9	160.8	160.8	163.3	160.8	158.3	158.3	158.3	163.3	163.3
50°	163.3	160.8	155.8	155.8	155.8	155.8	153.3	153.3	153.3	155.8	158.3
52.5°	155.8	153.3	150.8	148.3	148.3	148.3	148.3	148.3	148.3	150.8	153.3
55°	148.3	145.8	143.2	143.2	145.8	145.8	143.2	145.8	143.2	145.8	148.3
57.5°	140.7	138.2	135.7	138.2	140.7	138.2	138.2	138.2	138.2	138.2	140.7
60°	130.7	130.7	130.7	130.7	135.7	135.7	135.7	135.7	130.7	133.2	135.7
62.5°	125.6	123.1	123.1	125.6	128.2	128.2	130.7	128.2	125.6	128.2	128.2
65°	115.6	115.6	115.6	118.1	118.1	120.6	120.6	120.6	118.1	120.6	120.6
67.5°	108.1	108.1	108.1	108.1	113.1	113.1	113.1	113.1	110.6	110.6	113.1
70°	95.5	98.0	95.5	100.5	105.5	103.0	105.5	105.5	103.0	100.5	105.5
72.5°	88.0	88.0	88.0	88.0	95.5	95.5	95.5	98.0	95.5	93.0	95.5
75°	77.9	77.9	77.9	80.4	85.4	85.4	85.4	85.4	85.4	82.9	82.9
77.5°	67.8	70.4	67.8	70.4	75.4	72.9	75.4	77.9	75.4	72.9	72.9
80°	57.8	57.8	57.8	60.3	62.8	62.8	62.8	65.3	62.8	60.3	60.3
82.5°	45.2	45.2	47.7	47.7	50.3	50.3	50.3	52.8	50.3	47.7	47.7
85°	35.2	35.2	35.2	37.7	37.7	40.2	40.2	42.7	42.7	40.2	40.2
87.5°	22.6	20.1	22.6	22.6	25.1	25.1	22.6	20.1	22.6	20.1	17.6
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°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3
2.5°	1651.0	1696.2	1728.9	1751.5	1784.2	1847.0	1872.1	1917.4	1929.9	1937.5
5°	1419.8	1467.6	1537.9	1588.2	1646.0	1764.1	1854.6	1922.4	1952.6	1980.2
7.5°	1113.2	1176.1	1248.9	1314.3	1409.8	1555.5	1673.6	1814.4	1867.1	1894.8
10°	869.5	927.3	1007.7	1088.1	1221.3	1344.4	1512.8	1641.0	1713.8	1733.9
12.5°	733.8	801.6	897.1	995.1	1078.1	1218.8	1389.7	1575.6	1643.5	1656.0
15°	623.2	716.2	814.2	914.7	1010.2	1133.3	1316.8	1543.0	1643.5	1656.0
17.5°	515.2	598.1	713.7	821.7	932.3	1100.7	1329.4	1570.6	1671.1	1708.8
20°	409.6	490.0	580.5	716.2	867.0	1045.4	1357.0	1663.6	1796.8	1837.0
22.5°	339.2	374.4	462.4	593.1	771.5	1007.7	1384.6	1809.3	1950.0	1965.1
25°	296.5	321.7	376.9	500.1	696.1	982.6	1450.0	1977.7	2158.6	2158.6
27.5°	276.4	286.5	324.2	434.7	643.3	959.9	1515.3	2163.7	2332.0	2367.2
30°	271.4	296.5	316.6	387.0	585.5	897.1	1575.6	2309.4	2482.8	2485.3
32.5°	266.4	261.3	276.4	336.7	515.2	831.8	1625.9	2457.7	2593.4	2600.9
35°	208.6	218.6	243.8	296.5	462.4	784.0	1651.0	2538.1	2734.1	2741.6
37.5°	196.0	208.6	228.7	273.9	427.2	743.8	1658.5	2693.9	2882.4	2897.4
40°	191.0	201.0	216.1	253.8	399.6	693.6	1673.6	2854.7	3101.0	3080.9
42.5°	180.9	193.5	208.6	243.8	376.9	655.9	1676.1	2942.7	3216.6	3216.6
45°	178.4	186.0	203.5	243.8	351.8	623.2	1635.9	3030.6	3349.8	3309.6
47.5°	168.4	183.4	198.5	236.2	321.7	590.5	1588.2	3075.9	3367.4	3354.8
50°	165.9	180.9	206.1	223.7	304.1	575.5	1578.1	3188.9	3402.5	3400.0
52.5°	160.8	175.9	213.6	213.6	281.5	555.4	1625.9	3239.2	3410.1	3430.2
55°	153.3	175.9	198.5	196.0	261.3	530.2	1678.7	3369.9	3543.3	3538.2
57.5°	148.3	170.9	188.5	178.4	238.7	512.6	1756.6	3495.5	3704.1	3668.9
60°	140.7	170.9	168.4	165.9	221.1	497.6	1821.9	3520.6	3739.3	3761.9
62.5°	135.7	178.4	148.3	153.3	206.1	490.0	1794.2	3332.2	3691.5	3711.6
65°	130.7	153.3	135.7	140.7	201.0	474.9	1686.2	3106.0	3485.5	3573.4
67.5°	120.6	125.6	125.6	130.7	196.0	439.8	1465.1	2698.9	3171.3	3219.1
70°	110.6	113.1	113.1	120.6	191.0	399.6	1208.7	2334.5	2751.7	2842.1
72.5°	100.5	100.5	100.5	110.6	175.9	366.9	995.1	1794.2	2286.8	2349.6
75°	88.0	88.0	88.0	98.0	158.3	334.2	784.0	1334.4	1683.7	1774.1
77.5°	77.9	77.9	75.4	88.0	138.2	271.4	565.4	942.4	1186.1	1261.5
80°	65.3	62.8	62.8	70.4	108.1	196.0	364.4	665.9	826.8	859.4
82.5°	52.8	50.3	47.7	52.8	77.9	123.1	226.2	464.9	530.2	510.1
85°	50.3	52.8	42.7	40.2	55.3	80.4	143.2	286.5	238.7	238.7
87.5°	20.1	17.6	17.6	15.1	27.6	30.2	62.8	52.8	40.2	40.2
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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