

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: P677297

Luminaire Tested: **CCW-SA-1E-750-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677297  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-750-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

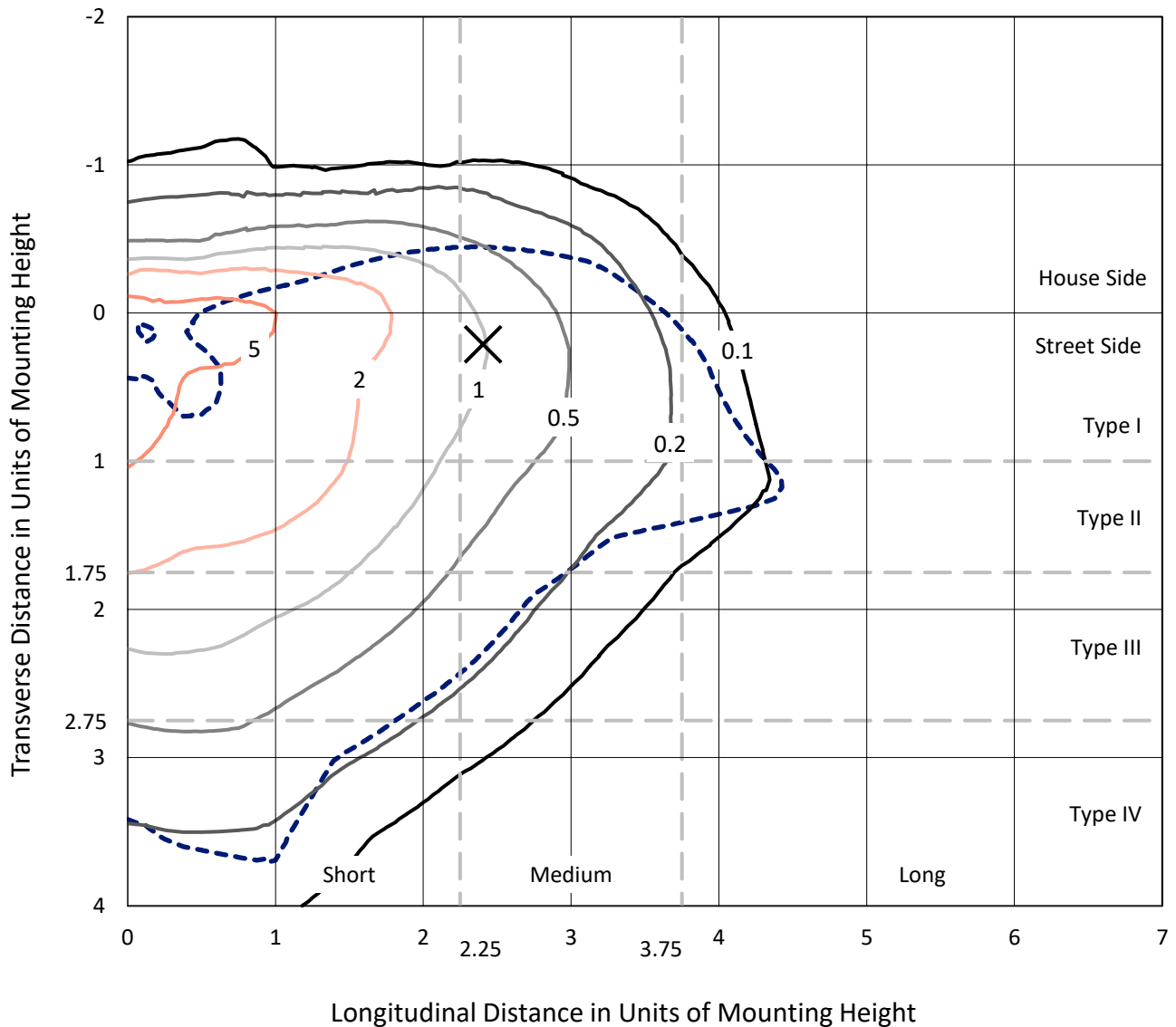
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5074.1 lumens  
Efficiency: N/A  
Efficacy: 90.4 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): 56.1  
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

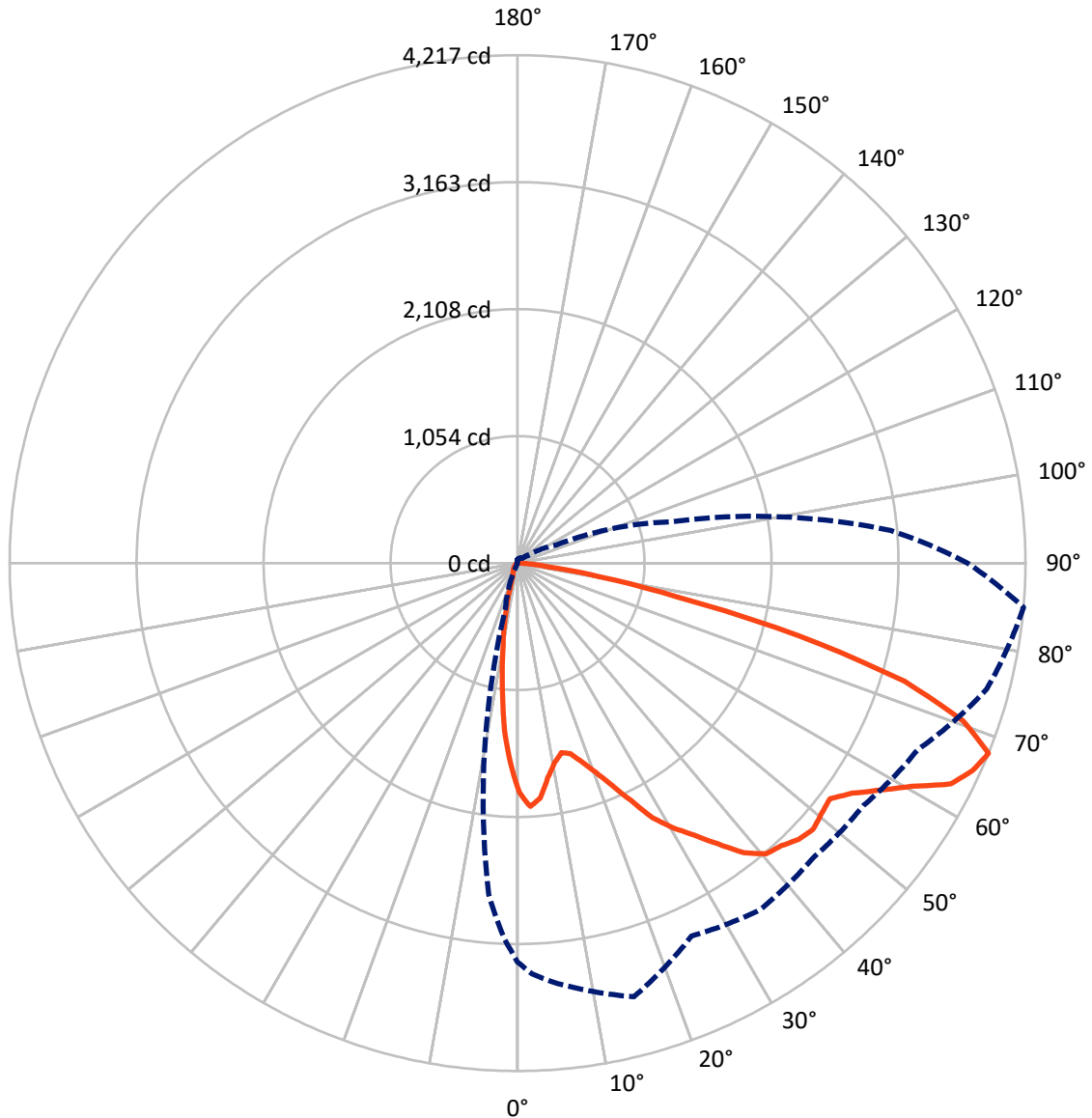
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.5 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	881.0	0.0	881.0
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	4193.1	0.0	4193.1
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	5074.1	0.0	5074.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.9	2.9
10°-20°	284.2	5.6
20°-30°	393.3	7.8
30°-40°	555.8	11.0
40°-50°	756.8	14.9
50°-60°	1002.3	19.8
60°-70°	1163.8	22.9
70°-80°	659.1	13.0
80°-90°	113.9	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°	5074.1	100.0
0°-180°	5074.1	100.0



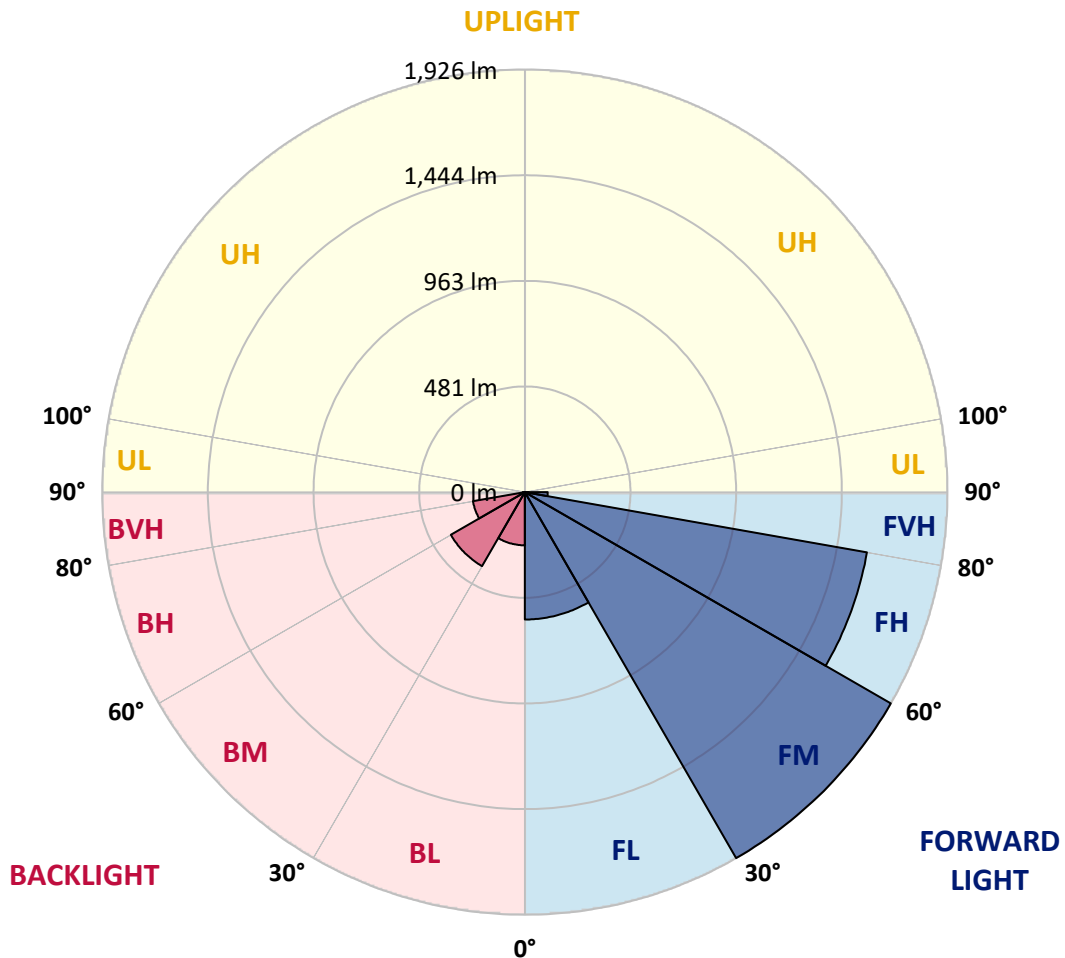
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.3	11.4			
FM (30°-60°)	1925.7	38.0			
FH (60°-80°)	1582.9	31.2			G1/1800
FVH (80°-90°)	104.3	2.1			G2/225
BL (0°-30°)	242.2	4.8	B1/500		
BM (30°-60°)	389.3	7.7	B1/1000		
BH (60°-80°)	239.9	4.7	B1/500		G1/500
BVH (80°-90°)	9.6	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°	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8
2.5°	1982.4	2024.4	2025.7	2044.7	2063.7	2063.7	2108.4	2097.5	2058.2	2051.5	2023.0
5°	1997.3	2012.2	2023.0	2119.2	2200.5	2192.4	2216.8	2200.5	2124.6	2027.1	1960.7
7.5°	1868.5	1884.8	1928.2	2092.1	2201.9	2238.5	2284.5	2182.9	2103.0	1926.8	1799.4
10°	1697.8	1729.0	1808.9	1995.9	2131.4	2247.9	2247.9	2166.6	2012.2	1840.1	1684.3
12.5°	1603.0	1665.3	1708.7	1898.4	2074.5	2154.4	2151.7	2108.4	2008.1	1791.3	1615.2
15°	1619.2	1636.8	1729.0	1876.7	1993.2	1989.1	2037.9	2024.4	1953.9	1834.7	1640.9
17.5°	1693.7	1720.8	1800.8	1876.7	1932.2	1916.0	1914.6	1979.7	1983.7	1907.8	1737.1
20°	1815.7	1895.6	1933.6	1956.6	1888.9	1819.8	1811.6	1902.4	1972.9	2001.3	1852.3
22.5°	2010.8	2063.7	2140.9	2023.0	1846.9	1760.1	1743.9	1844.2	1986.4	2112.4	2001.3
25°	2201.9	2242.5	2317.0	2165.3	1894.3	1747.9	1719.5	1806.2	2037.9	2266.9	2181.5
27.5°	2403.8	2439.0	2447.1	2269.6	1920.0	1723.6	1689.7	1806.2	2081.3	2348.2	2397.0
30°	2527.1	2569.1	2577.2	2361.8	1962.0	1743.9	1727.6	1814.3	2111.1	2417.3	2551.5
32.5°	2665.3	2676.1	2669.3	2378.0	2008.1	1803.5	1735.8	1868.5	2145.0	2500.0	2692.4
35°	2830.6	2849.6	2780.5	2452.5	2111.1	1841.4	1817.1	1934.9	2203.2	2537.9	2863.1
37.5°	2956.6	3016.2	2860.4	2481.0	2131.4	1921.4	1925.5	2073.1	2243.9	2584.0	3051.5
40°	3193.7	3093.5	2995.9	2578.6	2208.6	2056.9	2035.2	2215.4	2380.7	2613.8	3174.8
42.5°	3323.8	3271.0	3048.7	2588.0	2327.9	2243.9	2249.3	2376.7	2452.5	2697.8	3208.6
45°	3356.3	3300.8	3120.6	2594.8	2445.8	2464.7	2558.2	2582.6	2558.2	2753.4	3272.3
47.5°	3439.0	3318.4	3112.4	2685.6	2636.8	2710.0	2829.2	2882.1	2701.9	2733.0	3302.1
50°	3422.7	3353.6	3094.8	2723.5	2869.9	3063.7	3143.6	3121.9	2861.8	2691.0	3269.6
52.5°	3355.0	3280.5	3149.0	2826.5	3088.0	3322.5	3433.6	3379.4	3004.0	2785.9	3247.9
55°	3453.9	3397.0	3219.5	2966.1	3252.0	3550.1	3628.7	3588.0	3178.8	2874.0	3371.2
57.5°	3560.9	3548.7	3410.5	3130.0	3445.8	3784.5	3784.5	3734.4	3330.6	3001.3	3554.2
60°	3715.4	3742.5	3551.5	3238.4	3512.2	3771.0	3967.4	3909.2	3483.7	3224.9	3761.5
62.5°	3665.3	3752.0	3733.0	3471.5	3588.0	3837.4	3944.4	3987.8	3673.4	3497.3	4037.9
65°	3504.0	3596.2	3731.7	3624.6	3531.1	3676.1	3730.3	3861.7	3768.3	3753.3	4151.7
67.5°	3311.6	3411.9	3495.9	3727.6	3416.0	3512.2	3464.7	3506.7	3665.3	4033.8	4216.8
70°	2891.6	2987.8	3120.6	3498.6	3111.1	3024.4	3012.2	2991.8	3238.4	3933.6	3921.4
72.5°	2378.0	2422.7	2642.2	2844.1	2302.1	2285.9	2304.9	2281.8	2567.7	3560.9	3359.0
75°	1780.5	1825.2	1949.8	2184.3	1567.7	1474.2	1582.6	1689.7	1960.7	2764.2	2413.3
77.5°	1338.7	1395.6	1474.2	1634.1	1150.4	1004.1	1019.0	1120.6	1417.3	2214.1	1352.3
80°	868.6	861.8	1013.5	1124.6	865.8	892.9	855.0	929.5	1027.1	1184.3	691.0
82.5°	501.3	508.1	571.8	645.0	603.0	689.7	497.3	830.6	733.1	482.4	257.4
85°	281.8	294.0	352.3	447.1	378.0	253.4	207.3	411.9	460.7	197.8	124.7
87.5°	28.5	24.4	47.4	169.4	103.0	42.0	62.3	98.9	111.1	74.5	36.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8
2.5°	1982.4	1982.4	1948.5	1891.6	1868.5	1827.9	1772.3	1790.0	1771.0	1701.9	1684.3
5°	1901.1	1836.0	1765.6	1678.8	1628.7	1525.7	1493.2	1434.9	1444.4	1386.2	1388.9
7.5°	1731.7	1680.2	1561.0	1447.1	1348.2	1258.8	1132.8	1085.4	1039.3	1016.2	1043.3
10°	1632.8	1536.6	1374.0	1224.9	1093.5	1013.5	929.5	864.5	804.9	760.2	750.7
12.5°	1561.0	1475.6	1279.1	1097.5	994.6	929.5	852.3	762.9	704.6	627.4	604.3
15°	1539.3	1434.9	1227.6	1047.4	947.1	840.1	752.0	663.9	588.1	506.8	478.3
17.5°	1613.8	1493.2	1226.3	1006.8	865.8	750.7	628.7	529.8	452.6	378.0	360.4
20°	1739.8	1555.5	1265.6	982.4	788.6	634.1	495.9	397.0	310.3	261.5	249.3
22.5°	1883.4	1661.2	1269.6	917.3	711.4	517.6	361.8	261.5	212.7	189.7	182.9
25°	2059.6	1830.6	1318.4	864.5	620.6	392.9	257.4	200.5	172.1	158.5	155.8
27.5°	2204.6	1948.5	1371.3	808.9	531.2	291.3	201.9	164.0	149.0	135.5	134.1
30°	2355.0	2084.0	1386.2	775.1	453.9	239.8	173.4	145.0	128.7	121.9	120.6
32.5°	2486.4	2231.7	1433.6	719.5	380.8	211.4	157.2	130.1	119.2	108.4	107.0
35°	2655.8	2317.0	1456.6	689.7	353.7	191.1	143.6	119.2	103.0	96.2	93.5
37.5°	2837.4	2399.7	1471.5	666.7	330.6	178.9	135.5	112.5	97.6	88.1	85.4
40°	3006.7	2516.2	1449.8	638.2	313.0	164.0	130.1	104.3	90.8	81.3	77.2
42.5°	3136.8	2630.1	1443.1	611.1	294.0	158.5	123.3	100.3	85.4	74.5	73.2
45°	3210.0	2707.3	1395.6	589.4	279.1	161.2	120.6	94.8	81.3	71.8	66.4
47.5°	3192.4	2766.9	1407.8	582.6	258.8	150.4	119.2	90.8	74.5	66.4	62.3
50°	3289.9	2887.5	1387.5	561.0	243.9	135.5	130.1	90.8	73.2	63.7	59.6
52.5°	3306.2	2997.3	1430.9	521.7	220.9	124.7	128.7	89.4	70.5	61.0	55.6
55°	3441.7	3124.6	1514.9	500.0	201.9	108.4	117.9	86.7	63.7	55.6	52.8
57.5°	3626.0	3388.9	1569.1	479.7	176.1	94.8	98.9	85.4	58.3	51.5	47.4
60°	3803.5	3494.5	1573.2	443.1	151.8	85.4	77.2	85.4	54.2	46.1	42.0
62.5°	3936.3	3494.5	1546.1	411.9	132.8	75.9	67.7	81.3	48.8	40.6	37.9
65°	3864.5	3401.0	1475.6	386.2	120.6	66.4	58.3	62.3	43.4	35.2	32.5
67.5°	3735.7	3109.7	1319.8	355.0	119.2	58.3	50.1	46.1	37.9	31.2	28.5
70°	3529.8	2716.8	1098.9	319.8	116.5	52.8	44.7	39.3	33.9	27.1	24.4
72.5°	2844.1	2243.9	902.4	299.5	113.8	46.1	37.9	33.9	28.5	23.0	20.3
75°	1970.2	1433.6	695.1	256.1	111.1	42.0	35.2	29.8	24.4	19.0	17.6
77.5°	1181.6	958.0	448.5	192.4	73.2	33.9	29.8	23.0	20.3	16.3	14.9
80°	552.8	452.6	181.6	74.5	35.2	24.4	20.3	17.6	16.3	13.5	12.2
82.5°	216.8	191.1	88.1	43.4	28.5	19.0	16.3	14.9	13.5	10.8	9.5
85°	116.5	103.0	42.0	29.8	20.3	13.5	13.5	12.2	10.8	9.5	8.1
87.5°	25.7	19.0	17.6	17.6	14.9	10.8	10.8	9.5	8.1	6.8	5.4
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°	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8
2.5°	1674.8	1695.1	1662.6	1682.9	1654.5	1676.1	1678.8	1658.5	1663.9	1691.0	1703.2
5°	1426.8	1413.3	1383.5	1374.0	1375.3	1357.7	1364.5	1374.0	1388.9	1397.0	1421.4
7.5°	1028.4	1059.6	1058.3	1081.3	1082.6	1079.9	1061.0	1020.3	1033.9	1023.0	1036.6
10°	735.8	749.3	775.1	790.0	817.1	802.2	758.8	742.5	734.4	733.1	746.6
12.5°	588.1	555.5	552.8	558.3	571.8	554.2	532.5	513.5	523.0	542.0	556.9
15°	455.3	428.2	392.9	387.5	390.2	382.1	359.1	334.7	341.5	360.4	371.3
17.5°	349.6	318.4	294.0	277.8	272.4	243.9	210.0	189.7	184.3	182.9	192.4
20°	235.8	230.3	226.3	206.0	206.0	165.3	136.9	121.9	121.9	124.7	126.0
22.5°	176.1	169.4	170.7	166.7	155.8	123.3	108.4	104.3	104.3	107.0	107.0
25°	153.1	143.6	140.9	139.6	128.7	105.7	94.8	90.8	90.8	93.5	93.5
27.5°	130.1	127.4	123.3	117.9	108.4	90.8	84.0	79.9	81.3	82.7	81.3
30°	119.2	112.5	107.0	107.0	96.2	81.3	75.9	73.2	70.5	73.2	74.5
32.5°	105.7	101.6	98.9	94.8	82.7	71.8	66.4	63.7	62.3	62.3	63.7
35°	90.8	90.8	88.1	82.7	71.8	65.0	58.3	55.6	54.2	55.6	55.6
37.5°	81.3	77.2	78.6	73.2	63.7	56.9	50.1	47.4	47.4	46.1	47.4
40°	75.9	69.1	65.0	62.3	56.9	48.8	43.4	40.6	39.3	39.3	39.3
42.5°	67.7	62.3	54.2	52.8	51.5	42.0	35.2	33.9	32.5	31.2	31.2
45°	63.7	55.6	48.8	42.0	42.0	35.2	29.8	27.1	25.7	24.4	25.7
47.5°	58.3	50.1	42.0	35.2	33.9	28.5	23.0	20.3	19.0	19.0	19.0
50°	55.6	44.7	36.6	29.8	25.7	23.0	17.6	14.9	13.5	13.5	13.5
52.5°	51.5	42.0	32.5	25.7	20.3	17.6	13.5	10.8	9.5	9.5	9.5
55°	46.1	37.9	28.5	21.7	17.6	13.5	9.5	6.8	5.4	5.4	5.4
57.5°	43.4	33.9	24.4	19.0	13.5	9.5	5.4	4.1	4.1	2.7	4.1
60°	39.3	29.8	20.3	14.9	10.8	6.8	4.1	1.4	1.4	1.4	1.4
62.5°	33.9	25.7	17.6	12.2	8.1	4.1	1.4	0.0	0.0	0.0	0.0
65°	28.5	20.3	13.5	9.5	5.4	1.4	0.0	0.0	0.0	0.0	0.0
67.5°	24.4	17.6	10.8	6.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	21.7	14.9	8.1	5.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17.6	12.2	6.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.9	9.5	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.2	6.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.5	5.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.4	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°	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8
2.5°	1720.8	1712.7	1753.4	1819.8	1853.6	1920.0	1936.3	1978.3	1967.5	1982.4
5°	1424.1	1440.4	1500.0	1597.5	1632.8	1729.0	1819.8	1910.5	1968.8	1997.3
7.5°	1056.9	1111.1	1184.3	1273.7	1364.5	1490.5	1645.0	1750.7	1807.6	1868.5
10°	787.3	845.5	929.5	1017.6	1165.3	1306.2	1460.7	1592.1	1640.9	1697.8
12.5°	619.2	710.0	807.6	902.4	990.5	1124.6	1315.7	1506.8	1559.6	1603.0
15°	430.9	542.0	681.6	804.9	928.2	1044.7	1242.5	1474.2	1546.1	1619.2
17.5°	238.5	326.6	486.4	659.9	841.5	1020.3	1266.9	1533.9	1642.3	1693.7
20°	138.2	173.4	287.3	493.2	733.1	967.5	1279.1	1646.3	1790.0	1815.7
22.5°	113.8	126.0	162.6	308.9	600.3	933.6	1341.4	1803.5	1949.8	2010.8
25°	97.6	107.0	126.0	185.6	453.9	861.8	1380.7	2000.0	2135.5	2201.9
27.5°	86.7	96.2	111.1	136.9	308.9	762.9	1445.8	2177.5	2313.0	2403.8
30°	75.9	84.0	98.9	116.5	214.1	651.8	1501.3	2307.6	2498.6	2527.1
32.5°	67.7	74.5	85.4	100.3	158.5	494.6	1546.1	2441.7	2603.0	2665.3
35°	58.3	66.4	73.2	85.4	120.6	372.6	1519.0	2546.0	2756.1	2830.6
37.5°	51.5	56.9	63.7	71.8	101.6	291.3	1463.4	2670.7	2887.5	2956.6
40°	43.4	47.4	55.6	63.7	92.1	224.9	1399.7	2821.1	3071.8	3193.7
42.5°	36.6	40.6	46.1	59.6	75.9	166.7	1271.0	2937.6	3220.8	3323.8
45°	28.5	33.9	42.0	59.6	61.0	123.3	1138.2	3024.4	3304.8	3356.3
47.5°	21.7	27.1	40.6	51.5	48.8	85.4	981.0	3123.3	3391.6	3439.0
50°	16.3	21.7	46.1	44.7	40.6	65.0	882.1	3192.4	3397.0	3422.7
52.5°	10.8	16.3	37.9	33.9	33.9	56.9	855.0	3189.7	3410.5	3355.0
55°	8.1	12.2	21.7	24.4	29.8	50.1	830.6	3291.3	3414.6	3453.9
57.5°	5.4	9.5	14.9	19.0	25.7	43.4	780.5	3413.2	3540.6	3560.9
60°	2.7	6.8	10.8	14.9	21.7	37.9	710.0	3502.7	3693.7	3715.4
62.5°	1.4	4.1	8.1	12.2	17.6	29.8	636.8	3360.4	3627.3	3665.3
65°	0.0	2.7	5.4	8.1	10.8	21.7	517.6	3033.8	3364.5	3504.0
67.5°	0.0	0.0	2.7	5.4	6.8	16.3	390.2	2760.1	3121.9	3311.6
70°	0.0	0.0	1.4	1.4	4.1	12.2	249.3	2285.9	2787.2	2891.6
72.5°	0.0	0.0	0.0	0.0	1.4	8.1	145.0	1697.8	2184.3	2378.0
75°	0.0	0.0	0.0	0.0	0.0	6.8	73.2	1092.1	1520.3	1780.5
77.5°	0.0	0.0	0.0	0.0	0.0	5.4	39.3	704.6	1120.6	1338.7
80°	0.0	0.0	0.0	0.0	0.0	1.4	23.0	409.2	716.8	868.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.5	200.5	428.2	501.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	107.0	214.1	281.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	14.9	28.5
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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