

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: P676128

Luminaire Tested: **CCW-SA-2D-735-U-T1**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676128  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-735-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
T1 distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

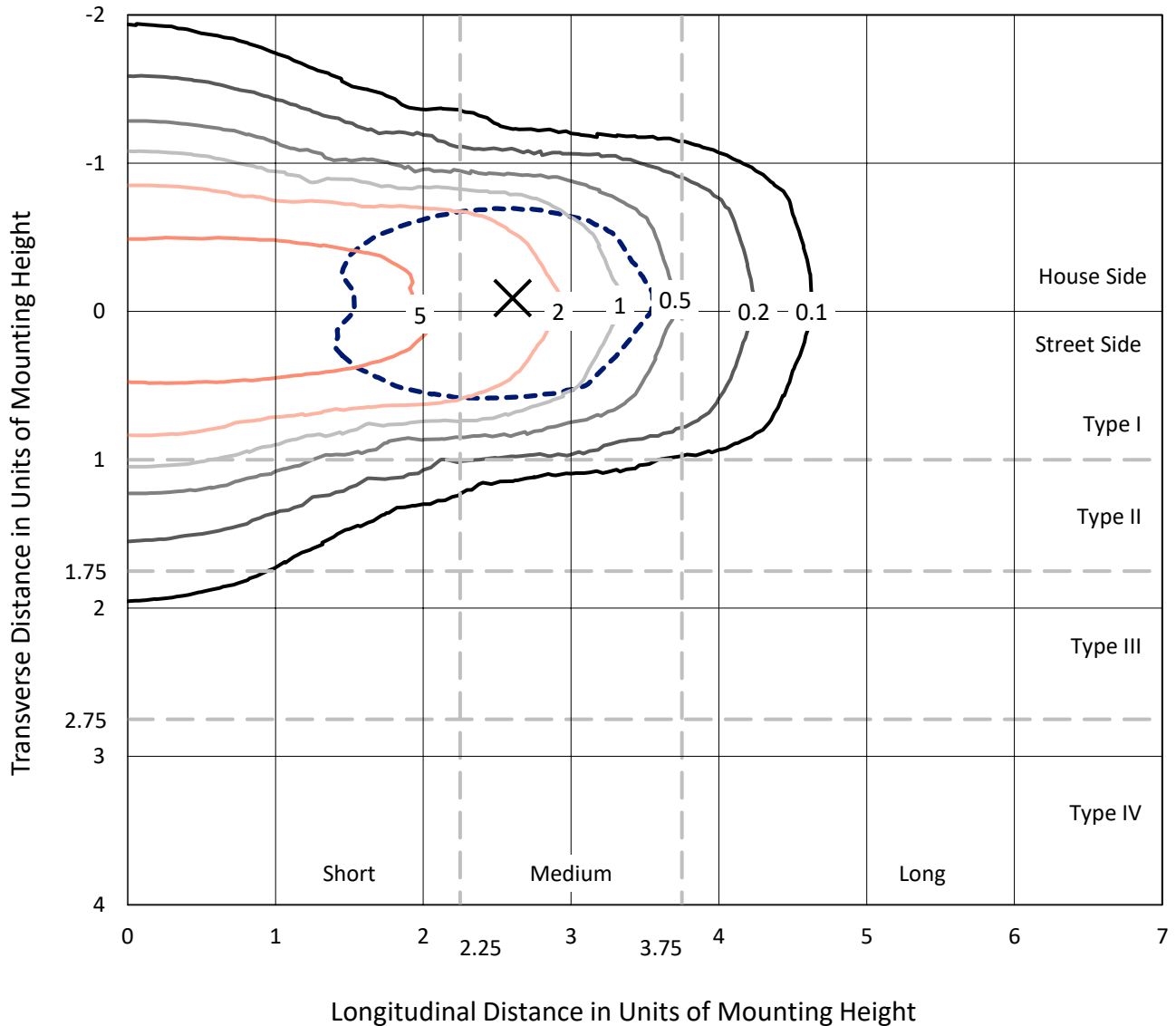
Lumens per Lamp: N/A  
Luminaire Lumens: 10711.6 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 80.8  
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

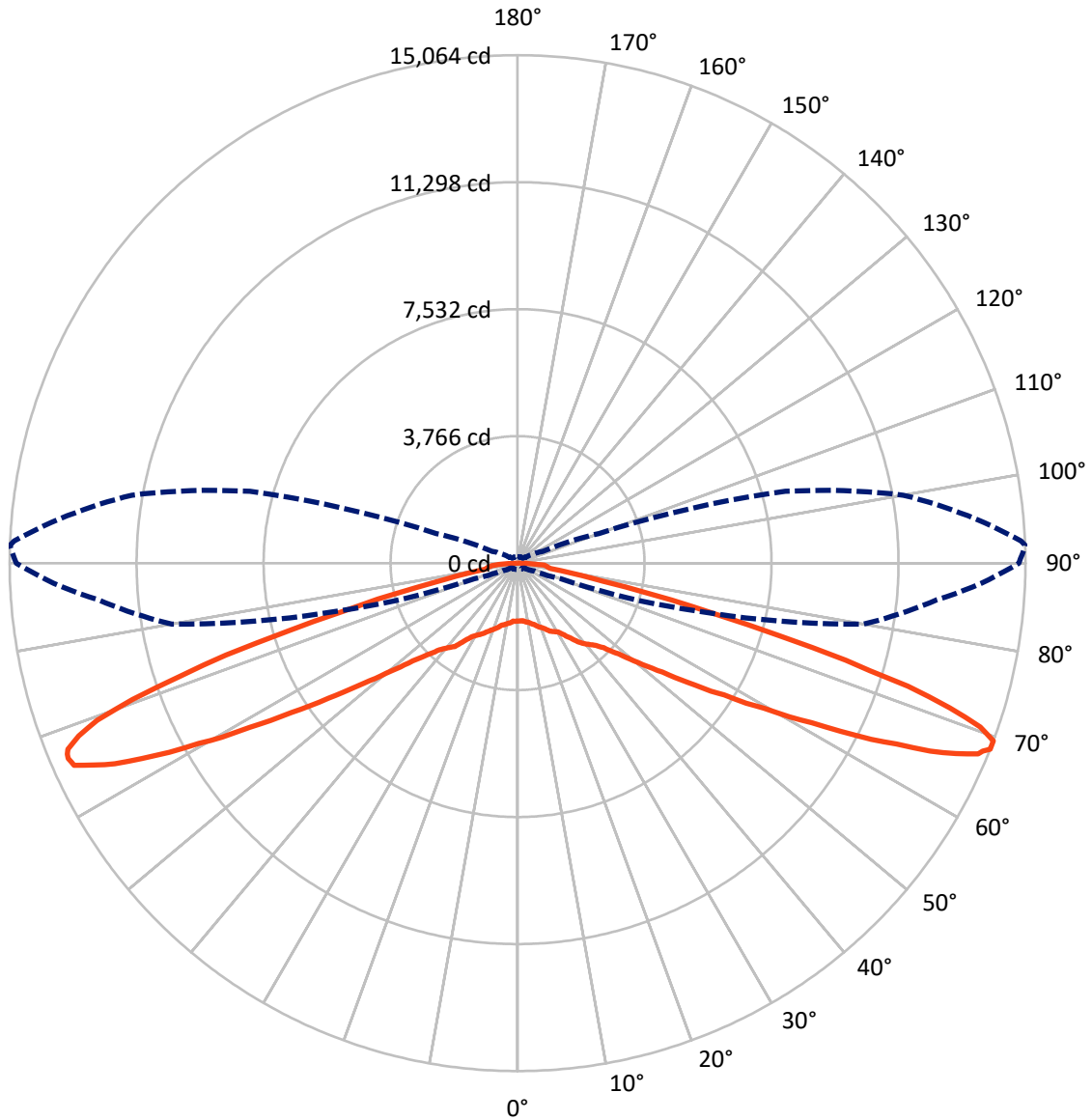
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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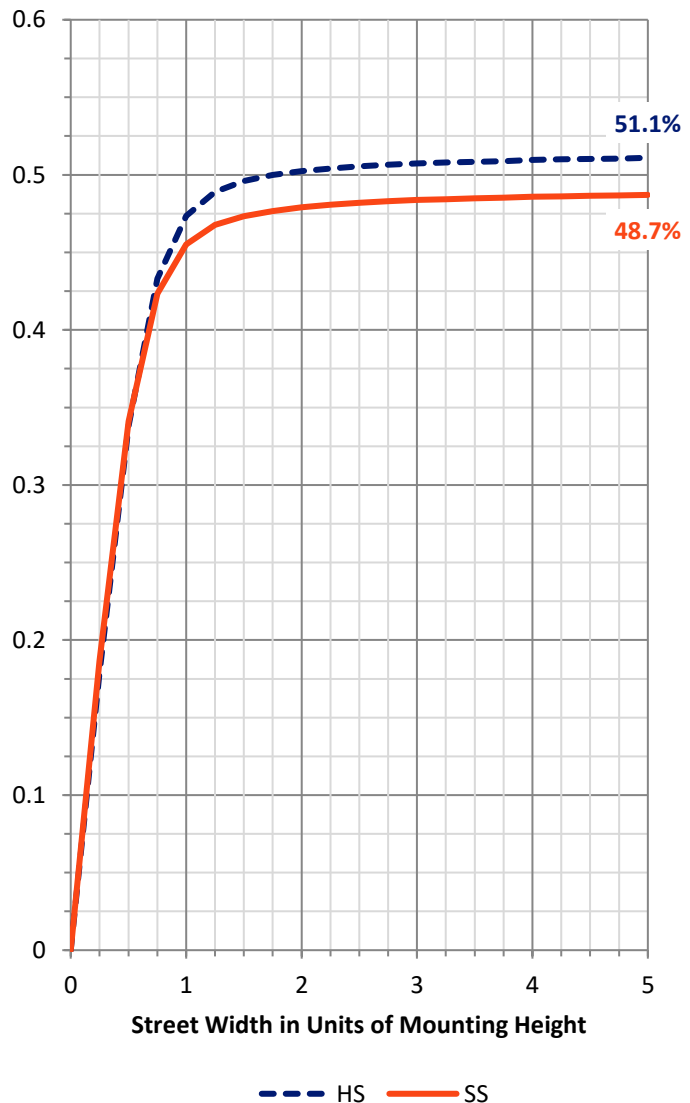
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5516.3	0.0	5516.3
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	5195.3	0.0	5195.3
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	10711.6	0.0	10711.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.6	1.6
10°-20°	555.7	5.2
20°-30°	948.3	8.9
30°-40°	1324.1	12.4
40°-50°	1684.3	15.7
50°-60°	2129.6	19.9
60°-70°	2626.4	24.5
70°-80°	1147.3	10.7
80°-90°	124.4	1.2
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°	10711.6	100.0
0°-180°	10711.6	100.0



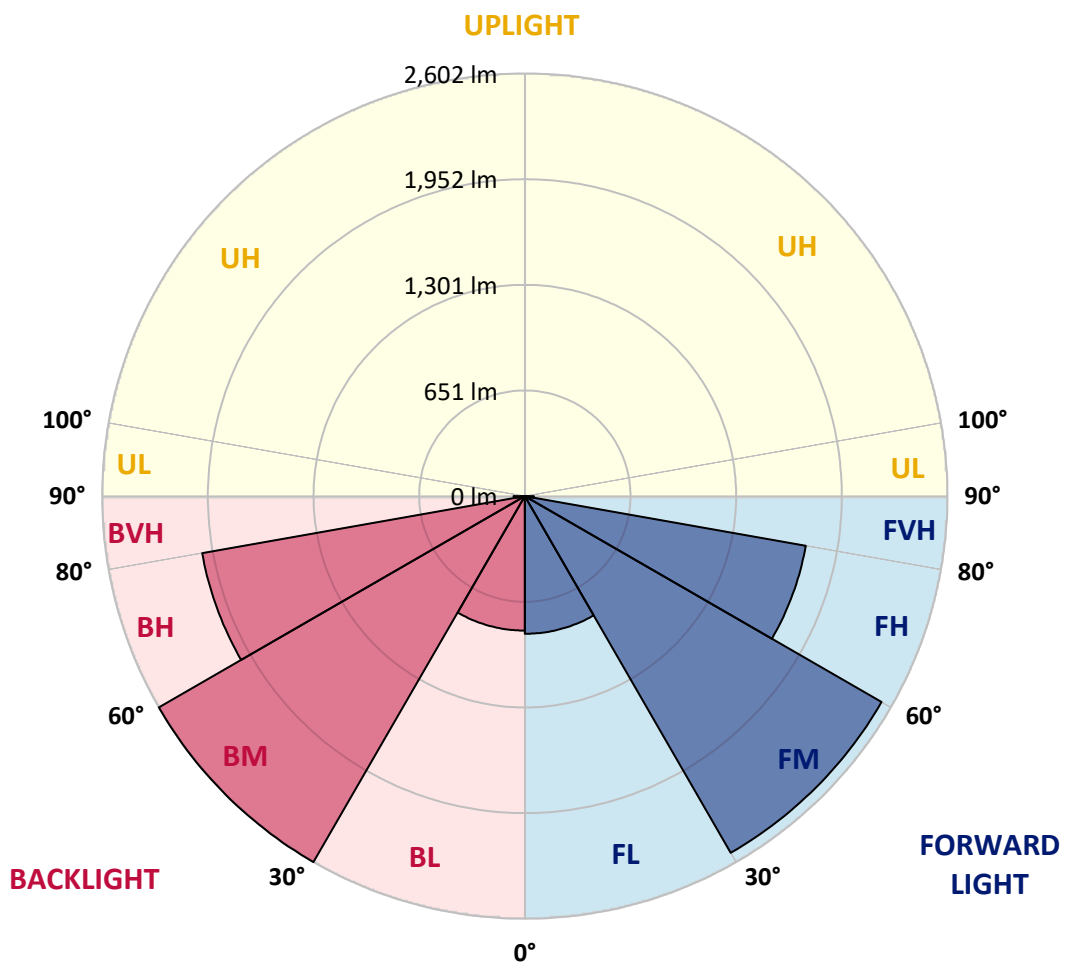
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.7	7.9			
FM (30°-60°)	2535.9	23.7			
FH (60°-80°)	1756.5	16.4			G1/1800
FVH (80°-90°)	55.2	0.5			G1/100
BL (0°-30°)	827.8	7.7	B2/1000		
BM (30°-60°)	2602.1	24.3	B3/5000		
BH (60°-80°)	2017.2	18.8	B3/2500		G3/2500
BVH (80°-90°)	69.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	1712.9	1712.9	1712.9	1712.9	1712.9	1712.9	1712.9	1712.9	1712.9	1712.9	1712.9
2.5°	1749.1	1747.0	1753.1	1757.1	1739.0	1745.0	1741.0	1737.0	1722.9	1716.9	1704.8
5°	1797.3	1803.3	1823.4	1805.3	1813.4	1803.3	1771.2	1781.2	1763.1	1759.1	1747.0
7.5°	1881.7	1869.7	1897.8	1877.7	1883.7	1863.6	1849.6	1831.5	1827.5	1799.3	1801.3
10°	1899.8	1924.0	1936.0	1932.0	1936.0	1946.1	1919.9	1891.8	1853.6	1845.6	1817.4
12.5°	1887.8	1909.9	1942.1	1968.2	1986.3	1990.3	1980.2	1974.2	1958.1	1911.9	1909.9
15°	1875.7	1859.6	1879.7	1970.2	2030.5	2070.7	2084.8	2050.6	2054.6	1994.3	1970.2
17.5°	1795.3	1771.2	1849.6	1938.0	2012.4	2100.9	2169.2	2159.2	2159.2	2110.9	2076.7
20°	1688.7	1728.9	1769.2	1881.7	2018.4	2151.1	2281.8	2275.8	2251.7	2237.6	2163.2
22.5°	1598.3	1616.4	1690.8	1809.4	1980.2	2165.2	2320.0	2430.6	2374.3	2318.0	2273.8
25°	1535.9	1519.9	1614.4	1737.0	1944.1	2141.1	2392.4	2507.0	2537.1	2494.9	2410.5
27.5°	1447.5	1447.5	1521.9	1638.5	1827.5	2129.0	2462.7	2637.7	2681.9	2619.6	2496.9
30°	1347.0	1359.0	1423.4	1556.1	1741.0	2040.6	2490.9	2788.4	2824.6	2770.3	2643.7
32.5°	1268.6	1268.6	1340.9	1481.7	1680.7	2000.4	2472.8	2937.2	3005.6	2965.3	2834.7
35°	1184.1	1178.1	1230.4	1385.2	1584.2	1921.9	2466.8	3055.8	3208.6	3210.6	3073.9
37.5°	1063.5	1087.6	1154.0	1276.6	1507.8	1845.6	2448.7	3198.6	3472.0	3518.2	3423.7
40°	983.1	993.1	1053.5	1188.1	1389.2	1755.1	2422.5	3315.2	3646.9	3805.7	3675.0
42.5°	866.5	880.6	926.8	1093.7	1274.6	1626.4	2307.9	3397.6	3896.2	4077.1	3966.5
45°	743.8	751.9	820.2	957.0	1152.0	1473.6	2185.3	3530.3	4137.4	4507.3	4443.0
47.5°	597.1	601.1	659.4	802.2	1005.2	1320.8	1996.3	3524.2	4332.4	4937.6	5118.5
50°	466.4	476.5	520.7	637.3	828.3	1133.9	1777.2	3476.0	4577.7	5428.1	5783.9
52.5°	371.9	373.9	402.1	494.6	639.3	946.9	1542.0	3323.2	4808.9	5908.6	6600.2
55°	307.6	307.6	323.7	380.0	490.5	719.7	1266.6	3069.9	4837.0	6439.3	7490.8
56°	295.5	291.5	305.6	353.8	442.3	649.4	1137.9	2899.0	4877.2	6684.6	7937.1
57°	279.4	281.5	289.5	323.7	398.1	575.0	995.2	2732.1	4849.1	6885.6	8266.8
58°	271.4	267.4	283.5	305.6	351.8	510.6	896.6	2535.1	4804.9	7050.5	8747.3
59°	259.3	257.3	267.4	287.5	327.7	454.4	776.0	2322.0	4718.4	7263.6	9105.1
60°	255.3	253.3	257.3	273.4	301.6	398.1	683.5	2072.7	4487.2	7482.7	9549.4
61°	243.3	245.3	253.3	263.4	285.5	357.9	615.2	1817.4	4336.4	7667.7	10040.0
62°	245.3	241.2	245.3	253.3	269.4	329.7	538.8	1566.1	4067.1	7876.8	10407.9
63°	233.2	231.2	237.2	247.3	255.3	297.5	470.4	1353.0	3761.5	7925.0	10719.5
64°	229.2	227.2	229.2	243.3	245.3	279.4	416.2	1156.0	3319.2	8007.4	11119.6
65°	219.1	219.1	223.2	229.2	237.2	263.4	371.9	1003.2	2878.9	7790.3	11242.2
66°	211.1	213.1	213.1	223.2	229.2	245.3	341.8	852.4	2456.7	7444.5	11360.8
67°	205.1	205.1	207.1	215.1	221.1	231.2	307.6	737.8	2072.7	7032.4	11177.9
67.5°	201.0	203.1	203.1	211.1	217.1	231.2	293.5	699.6	1853.6	6580.1	11041.1
68°	195.0	197.0	197.0	205.1	211.1	223.2	283.5	639.3	1708.8	6286.5	10787.8
69°	191.0	189.0	189.0	197.0	205.1	213.1	263.4	558.9	1359.0	5466.3	10417.9
70°	178.9	178.9	182.9	189.0	195.0	203.1	243.3	492.5	1150.0	4525.4	9465.0
71°	172.9	170.9	172.9	178.9	185.0	195.0	223.2	436.3	940.9	3757.4	8528.1
72°	160.8	164.9	164.9	170.9	176.9	182.9	209.1	380.0	790.1	3003.5	7496.8
72.5°	158.8	158.8	160.8	166.9	170.9	180.9	201.0	363.9	721.7	2647.7	7064.6
73°	152.8	152.8	154.8	160.8	164.9	174.9	195.0	327.7	657.4	2356.2	6256.4
74°	146.8	144.7	144.7	152.8	154.8	164.9	182.9	289.5	550.9	1775.2	5022.0
75°	136.7	136.7	138.7	142.7	144.7	152.8	168.9	257.3	464.4	1377.1	3928.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	112.6	114.6	116.6	120.6	120.6	126.7	138.7	178.9	283.5	697.6	1803.3
80°	82.4	86.4	92.5	98.5	96.5	96.5	108.6	128.7	168.9	313.6	691.6
82.5°	66.3	70.4	64.3	72.4	72.4	68.4	78.4	94.5	114.6	154.8	247.3
85°	44.2	46.2	38.2	44.2	42.2	42.2	52.3	56.3	70.4	86.4	122.6
87.5°	20.1	20.1	16.1	18.1	18.1	18.1	26.1	20.1	30.2	42.2	72.4
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):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	1712.9	1712.9	1712.9	1712.9	1712.9	1712.9	1712.9	1712.9	1712.9	1712.9	1712.9
2.5°	1716.9	1724.9	1724.9	1716.9	1710.9	1716.9	1712.9	1702.8	1712.9	1716.9	1718.9
5°	1741.0	1724.9	1733.0	1714.9	1726.9	1724.9	1720.9	1731.0	1733.0	1733.0	1747.0
7.5°	1767.1	1787.3	1761.1	1763.1	1769.2	1745.0	1753.1	1757.1	1749.1	1765.1	1777.2
10°	1813.4	1821.4	1813.4	1783.2	1803.3	1787.3	1781.2	1799.3	1795.3	1799.3	1817.4
12.5°	1855.6	1869.7	1847.6	1845.6	1835.5	1821.4	1829.5	1827.5	1855.6	1859.6	1881.7
15°	1942.1	1905.9	1897.8	1895.8	1891.8	1885.8	1889.8	1891.8	1928.0	1934.0	1986.3
17.5°	2016.4	2010.4	1966.2	1982.3	1982.3	1958.1	1948.1	1982.3	2010.4	2040.6	2076.7
20°	2092.8	2086.8	2038.6	2040.6	2022.5	2044.6	2032.5	2064.7	2112.9	2123.0	2155.2
22.5°	2183.3	2157.2	2123.0	2127.0	2133.0	2117.0	2108.9	2153.1	2201.4	2229.5	2231.5
25°	2326.0	2259.7	2231.5	2235.6	2227.5	2215.5	2221.5	2277.8	2301.9	2362.2	2350.2
27.5°	2402.4	2364.2	2344.1	2297.9	2299.9	2281.8	2305.9	2390.4	2438.6	2484.9	2392.4
30°	2494.9	2470.8	2382.3	2366.2	2364.2	2356.2	2400.4	2509.0	2581.4	2607.5	2474.8
32.5°	2675.8	2579.4	2557.2	2543.2	2511.0	2521.0	2543.2	2685.9	2800.5	2794.5	2551.2
35°	2882.9	2816.6	2754.3	2742.2	2738.2	2710.0	2748.2	2915.1	3003.5	2977.4	2579.4
37.5°	3214.6	3114.1	3029.7	2983.4	2975.4	2955.3	3045.8	3178.5	3293.0	3190.5	2601.5
40°	3377.5	3264.9	3186.5	3158.3	3164.4	3192.5	3281.0	3484.0	3534.3	3345.3	2619.6
42.5°	3610.7	3488.1	3333.3	3319.2	3301.1	3315.2	3486.0	3759.5	3801.7	3554.4	2551.2
45°	4024.8	3839.9	3660.9	3580.5	3584.6	3622.8	3888.1	4187.7	4109.3	3699.1	2442.6
47.5°	4547.5	4276.1	4131.4	4022.8	4075.1	4032.9	4455.1	4694.3	4426.9	3882.1	2310.0
50°	5333.6	4953.6	4756.6	4625.9	4648.1	4684.2	5112.5	5315.5	4778.7	3970.6	2106.9
52.5°	6324.7	5836.2	5546.7	5371.8	5387.9	5466.3	6019.2	5956.8	5180.8	4044.9	1835.5
55°	7510.9	7008.3	6447.4	6375.0	6356.9	6543.9	7153.0	6628.3	5542.7	3926.3	1554.0
56°	8138.1	7603.4	7020.3	6871.6	6827.3	6958.0	7673.7	6964.0	5667.3	3793.6	1419.3
57°	8670.9	8160.2	7520.9	7267.6	7323.9	7569.2	8190.4	7279.7	5781.9	3656.9	1292.7
58°	9402.7	8819.6	8144.2	7951.2	7900.9	8095.9	8747.3	7597.3	5820.1	3516.2	1176.1
59°	10132.4	9432.8	8823.7	8471.8	8485.9	8841.8	9296.1	7975.3	5878.4	3337.3	1027.3
60°	10687.3	10335.5	9521.3	9257.9	9221.7	9736.4	9842.9	8228.6	5940.7	3096.0	922.8
61°	11473.4	11015.0	10257.1	9917.3	10015.8	10428.0	10434.0	8546.2	5848.3	2790.4	794.1
62°	12038.3	11917.7	11121.6	10797.9	10767.7	11314.6	11049.2	8825.7	5767.9	2500.9	701.6
63°	12699.7	12699.7	11974.0	11720.7	11734.7	12167.0	11316.6	9105.1	5675.4	2181.3	617.2
64°	13043.5	13475.7	12806.3	12450.4	12542.9	12916.9	11793.0	9288.1	5389.9	1857.6	542.8
65°	13341.1	13990.4	13618.5	13453.6	13312.9	13534.0	12205.2	9459.0	4953.6	1580.2	482.5
66°	13592.4	14474.9	14352.3	14175.4	14161.3	14111.0	12285.6	9452.9	4503.3	1334.9	422.2
67°	13465.7	14485.0	14708.1	14782.5	14760.4	14229.6	12144.9	9237.8	3926.3	1127.8	375.9
67.5°	13351.1	14402.5	14921.2	14879.0	14971.5	14330.2	12169.0	8974.4	3516.2	1021.3	353.8
68°	13250.6	14292.0	15007.7	15062.0	15015.7	14342.2	12036.3	8765.4	3236.8	959.0	333.7
69°	12488.6	13767.3	14869.0	15064.0	14945.4	13881.8	11614.1	8220.5	2571.3	818.2	307.6
70°	11724.7	13087.7	14195.5	14553.3	14406.6	12991.2	11081.4	7354.1	2121.0	699.6	277.4
71°	10667.2	11825.2	13298.8	13513.9	13337.0	11978.0	9979.7	6439.3	1650.5	593.1	247.3
72°	9231.8	10214.9	11622.2	12142.8	11881.5	10520.5	8865.9	5321.5	1336.9	498.6	225.2
72.5°	8520.1	9527.3	10884.3	10926.6	10976.8	9887.2	8393.4	4674.2	1166.0	462.4	219.1
73°	7844.6	8831.7	10005.8	10154.6	9941.5	8819.6	7687.8	4179.6	1065.5	422.2	211.1
74°	6356.9	6919.8	7892.9	8037.6	7850.6	7191.2	6282.5	3204.6	848.4	363.9	193.0
75°	5001.9	5311.5	6192.0	6103.6	5824.1	5592.9	4871.2	2448.7	687.6	319.7	178.9



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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	2247.6	2434.6	2581.4	2581.4	2597.4	2478.8	2245.6	1123.8	424.2	231.2	146.8
80°	856.4	959.0	991.1	993.1	1007.2	1043.4	971.0	552.9	251.3	164.9	118.6
82.5°	621.2	868.5	934.8	886.6	890.6	804.2	371.9	245.3	158.8	114.6	86.4
85°	562.9	755.9	800.1	794.1	796.1	743.8	219.1	120.6	92.5	72.4	60.3
87.5°	273.4	267.4	283.5	319.7	311.6	404.1	185.0	60.3	40.2	30.2	30.2
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):**

	135°	145°	155°	165°	175°	180°
0°	1712.9	1712.9	1712.9	1712.9	1712.9	1712.9
2.5°	1702.8	1700.8	1728.9	1700.8	1716.9	1704.8
5°	1722.9	1731.0	1737.0	1749.1	1720.9	1749.1
7.5°	1783.2	1791.3	1793.3	1803.3	1791.3	1789.3
10°	1829.5	1849.6	1861.6	1821.4	1845.6	1843.5
12.5°	1919.9	1899.8	1897.8	1889.8	1867.7	1859.6
15°	1984.3	1954.1	1936.0	1903.9	1877.7	1867.7
17.5°	2074.7	2016.4	1942.1	1875.7	1829.5	1793.3
20°	2131.0	2026.5	1877.7	1799.3	1728.9	1745.0
22.5°	2167.2	2016.4	1819.4	1718.9	1648.5	1668.6
25°	2179.3	1966.2	1779.2	1654.6	1586.2	1572.1
27.5°	2145.1	1907.9	1700.8	1560.1	1499.8	1511.8
30°	2129.0	1823.4	1628.4	1489.7	1409.3	1421.4
32.5°	2086.8	1737.0	1531.9	1391.2	1332.9	1312.8
35°	2026.5	1664.6	1439.5	1306.8	1236.4	1220.3
37.5°	1952.1	1574.1	1359.0	1198.2	1135.9	1123.8
40°	1841.5	1465.6	1242.4	1103.7	1031.3	1029.3
42.5°	1745.0	1361.0	1133.9	991.1	918.8	922.8
45°	1622.4	1220.3	1009.2	886.6	814.2	818.2
47.5°	1465.6	1089.6	890.6	753.9	693.6	689.6
50°	1280.6	940.9	745.9	629.3	579.0	568.9
52.5°	1103.7	790.1	611.2	506.6	464.4	460.4
55°	880.6	615.2	476.5	398.1	365.9	367.9
56°	800.1	566.9	434.2	363.9	339.8	339.8
57°	723.7	502.6	394.0	335.7	313.6	313.6
58°	639.3	442.3	357.9	303.6	293.5	285.5
59°	581.0	402.1	323.7	287.5	271.4	269.4
60°	512.7	361.9	301.6	269.4	257.3	255.3
61°	454.4	325.7	277.4	251.3	247.3	247.3
62°	406.1	301.6	257.3	243.3	241.2	235.2
63°	363.9	277.4	247.3	231.2	225.2	231.2
64°	325.7	255.3	239.2	227.2	219.1	223.2
65°	295.5	245.3	229.2	221.1	213.1	215.1
66°	275.4	229.2	221.1	211.1	207.1	209.1
67°	249.3	221.1	213.1	203.1	201.0	203.1
67.5°	241.2	215.1	209.1	199.0	197.0	199.0
68°	235.2	211.1	207.1	197.0	195.0	193.0
69°	219.1	203.1	197.0	193.0	189.0	187.0
70°	205.1	195.0	191.0	185.0	180.9	178.9
71°	197.0	185.0	182.9	176.9	172.9	170.9
72°	187.0	178.9	174.9	166.9	164.9	166.9
72.5°	185.0	174.9	172.9	164.9	162.8	162.8
73°	178.9	166.9	168.9	160.8	156.8	160.8
74°	166.9	162.8	158.8	152.8	150.8	150.8
75°	156.8	152.8	148.8	144.7	144.7	144.7



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82.5°	80.4	82.4	86.4	80.4	76.4	72.4
85°	52.3	54.3	54.3	48.2	56.3	52.3
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