

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: P675900

Luminaire Tested: **CCW-SA-1D-835-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675900  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-835-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
SLL distribution lens  
Light Source: (16) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

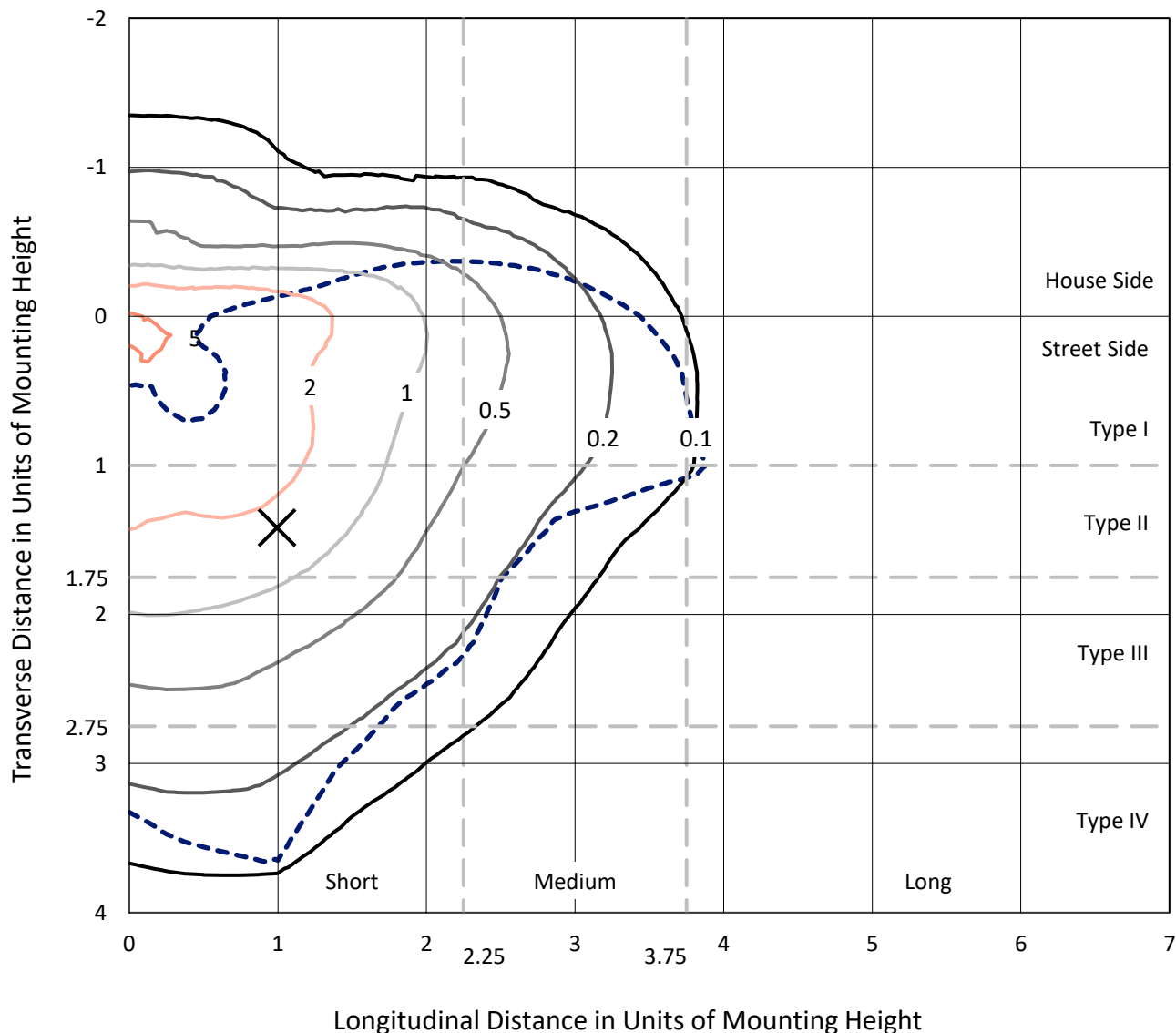
Lumens per Lamp: N/A  
Luminaire Lumens: 3812.9 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 44  
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

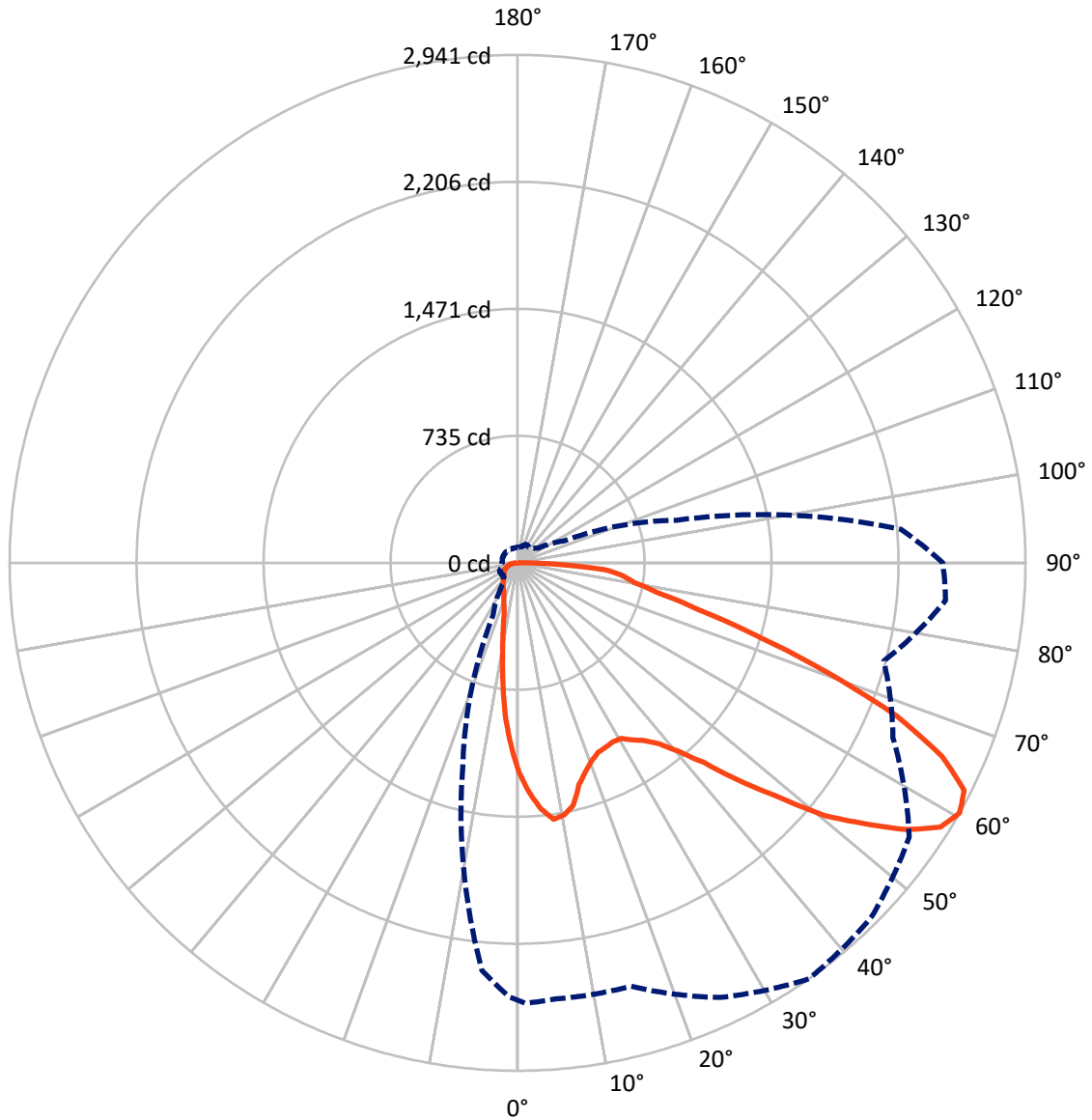
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 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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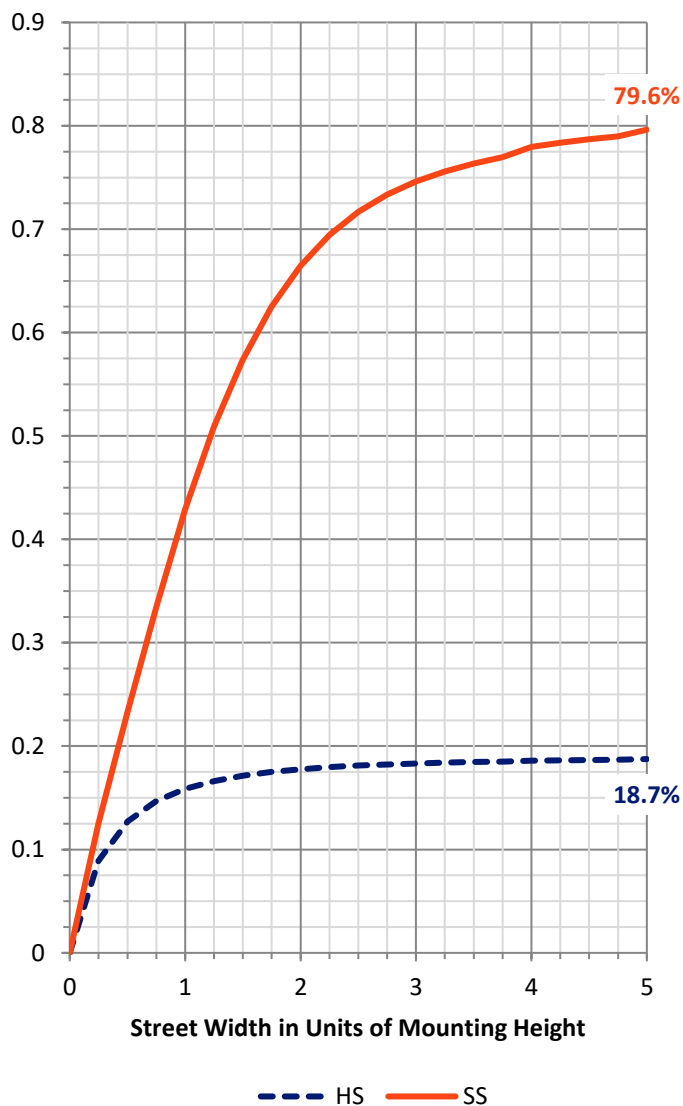
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	725.6	0.0	725.6
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	3087.2	0.0	3087.2
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	3812.9	0.0	3812.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.6	2.5
10°-20°	199.7	5.2
20°-30°	292.3	7.7
30°-40°	411.8	10.8
40°-50°	565.9	14.8
50°-60°	771.3	20.2
60°-70°	844.1	22.1
70°-80°	487.3	12.8
80°-90°	145.9	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°	3812.9	100.0
0°-180°	3812.9	100.0

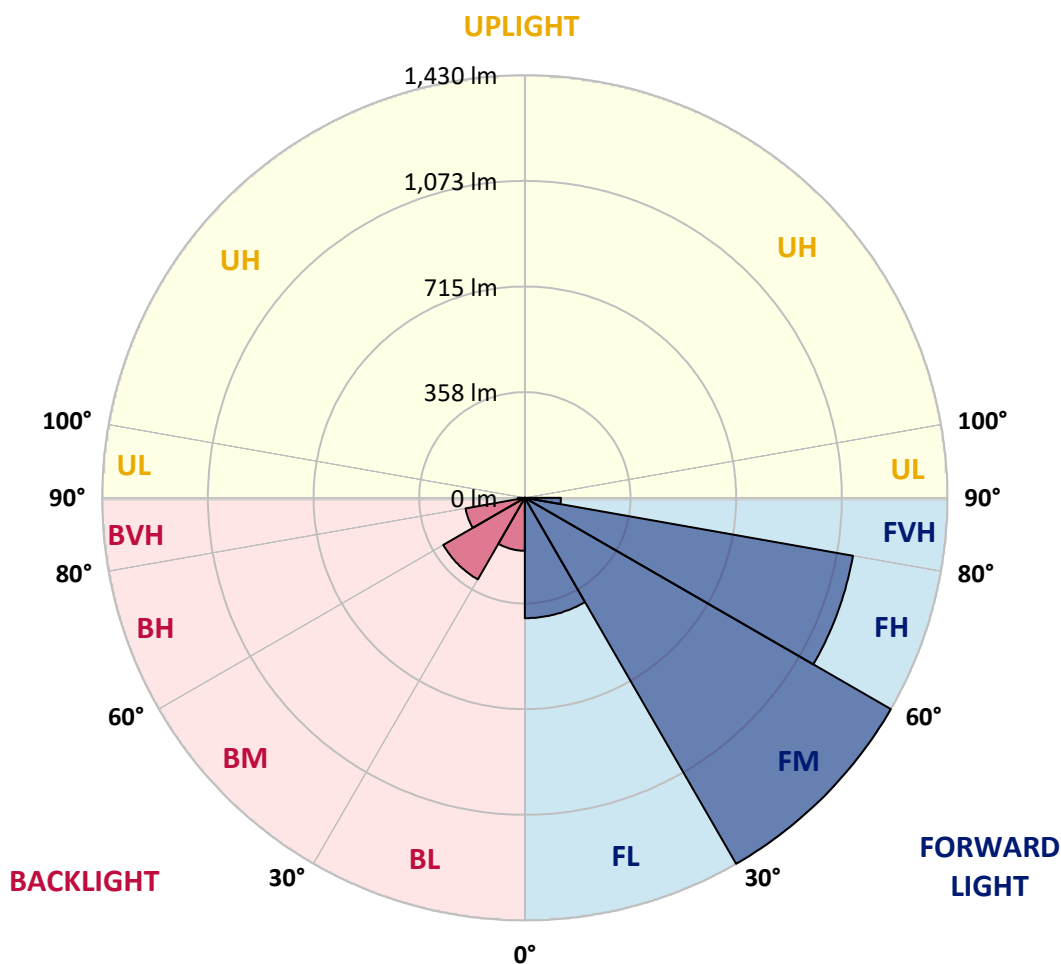


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.3	10.7			
FM (30°-60°)	1430.1	37.5			
FH (60°-80°)	1127.6	29.6			G1/1800
FVH (80°-90°)	122.2	3.2			G2/225
BL (0°-30°)	179.3	4.7	B1/500		
BM (30°-60°)	318.8	8.4	B1/1000		
BH (60°-80°)	203.8	5.3	B1/500		G1/500
BVH (80°-90°)	23.8	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°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1304.1	1299.0	1304.1	1322.7	1327.8	1336.2	1336.2	1324.4	1302.4	1292.2	1275.3
5°	1332.8	1324.4	1366.7	1405.6	1436.0	1432.6	1403.9	1380.2	1336.2	1270.2	1207.7
7.5°	1275.3	1283.8	1314.2	1415.7	1486.7	1500.3	1454.6	1407.3	1312.5	1221.2	1136.6
10°	1167.1	1178.9	1244.9	1349.7	1461.4	1483.4	1454.6	1397.1	1283.8	1170.5	1072.4
12.5°	1114.6	1141.7	1180.6	1307.5	1387.0	1439.4	1425.9	1388.6	1261.8	1128.2	1033.5
15°	1114.6	1121.4	1178.9	1285.5	1331.1	1332.8	1337.9	1344.7	1268.6	1146.8	1019.9
17.5°	1150.2	1168.8	1217.8	1283.8	1292.2	1271.9	1271.9	1300.7	1282.1	1199.2	1069.0
20°	1236.4	1229.7	1293.9	1321.0	1275.3	1224.6	1219.5	1268.6	1297.3	1255.0	1158.6
22.5°	1322.7	1353.1	1405.6	1344.7	1260.1	1192.4	1185.7	1246.6	1343.0	1351.4	1261.8
25°	1452.9	1483.4	1510.4	1436.0	1258.4	1184.0	1189.1	1236.4	1398.8	1488.4	1434.3
27.5°	1593.3	1611.9	1650.8	1535.8	1299.0	1173.8	1178.9	1250.0	1451.2	1578.1	1569.6
30°	1672.8	1693.1	1684.6	1554.4	1326.1	1180.6	1167.1	1268.6	1422.5	1578.1	1657.6
32.5°	1750.6	1738.8	1733.7	1584.9	1359.9	1222.9	1189.1	1307.5	1439.4	1603.5	1770.9
35°	1845.3	1828.4	1814.9	1644.1	1415.7	1263.5	1248.3	1358.2	1476.6	1655.9	1862.2
37.5°	1950.2	1950.2	1884.2	1688.0	1481.7	1329.4	1312.5	1430.9	1535.8	1688.0	1987.4
40°	2073.7	2078.7	1962.0	1747.2	1556.1	1434.3	1429.2	1525.7	1593.3	1735.4	2107.5
42.5°	2165.0	2168.4	2029.7	1769.2	1642.4	1579.8	1601.8	1677.9	1659.3	1777.7	2116.0
45°	2227.6	2210.7	2077.1	1831.8	1737.1	1798.0	1804.7	1826.7	1745.5	1803.0	2149.8
47.5°	2258.0	2254.7	2097.3	1904.5	1936.7	2019.5	2058.4	2028.0	1825.0	1776.0	2149.8
50°	2288.5	2259.7	2116.0	2004.3	2131.2	2298.6	2290.2	2234.4	1935.0	1809.8	2117.6
52.5°	2308.8	2283.4	2153.2	2094.0	2317.2	2506.7	2540.5	2437.3	2063.5	1872.4	2132.9
55°	2381.5	2361.2	2264.8	2215.7	2532.0	2726.6	2731.6	2587.9	2198.8	1975.6	2232.7
57.5°	2469.5	2481.3	2418.7	2388.3	2696.1	2887.2	2868.6	2699.5	2313.8	2100.7	2347.7
60°	2532.0	2550.6	2535.4	2538.8	2777.3	2941.4	2899.1	2768.8	2398.4	2195.5	2488.1
62.5°	2498.2	2535.4	2598.0	2584.5	2780.7	2902.5	2843.3	2677.5	2408.6	2318.9	2594.6
65°	2405.2	2408.6	2530.4	2604.8	2628.5	2701.2	2623.4	2486.4	2303.7	2395.0	2579.4
67.5°	2166.7	2193.8	2303.7	2449.2	2349.4	2366.3	2359.5	2161.6	2144.7	2342.6	2462.7
70°	1913.0	1931.6	2051.7	2222.5	1984.0	1904.5	1919.8	1772.6	1841.9	2180.2	2227.6
72.5°	1581.5	1593.3	1730.3	1880.8	1591.6	1449.5	1485.1	1365.0	1463.1	1907.9	1879.2
75°	1194.1	1216.1	1322.7	1500.3	1172.1	1080.8	1116.3	1067.3	1158.6	1571.3	1458.0
77.5°	849.1	832.2	964.1	1173.8	881.2	827.1	830.5	838.9	937.0	1324.4	1047.0
80°	578.5	583.5	701.9	860.9	691.8	683.3	674.9	742.5	786.5	1048.7	761.1
82.5°	343.4	343.4	473.6	612.3	546.3	615.7	576.8	637.7	615.7	771.3	499.0
85°	160.7	160.7	243.6	441.5	422.9	507.4	431.3	482.1	455.0	537.9	225.0
87.5°	27.1	23.7	49.1	216.5	174.2	197.9	77.8	257.1	285.8	375.5	55.8
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°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1256.7	1244.9	1221.2	1190.8	1165.4	1133.2	1123.1	1101.1	1070.7	1067.3	1053.7
5°	1184.0	1143.4	1092.7	1030.1	987.8	943.8	906.6	884.6	859.2	855.9	849.1
7.5°	1104.5	1053.7	969.2	894.8	822.0	752.7	718.8	676.6	647.8	625.8	615.7
10°	1030.1	982.7	877.8	776.4	712.1	666.4	625.8	581.8	546.3	519.3	509.1
12.5°	981.0	925.2	811.9	715.5	668.1	615.7	570.0	522.6	477.0	441.5	422.9
15°	959.0	906.6	791.6	685.0	615.7	542.9	490.5	443.1	387.3	362.0	353.5
17.5°	1011.5	933.7	784.8	649.5	551.4	468.5	404.2	353.5	312.9	287.5	277.4
20°	1079.1	982.7	796.7	607.2	490.5	397.5	326.4	272.3	245.3	226.6	225.0
22.5°	1165.4	1055.4	815.3	576.8	422.9	319.7	255.4	223.3	204.7	203.0	199.6
25°	1319.3	1187.4	845.7	536.2	368.7	263.9	218.2	199.6	191.1	186.1	189.4
27.5°	1451.2	1273.6	867.7	510.8	346.7	248.6	211.4	191.1	182.7	181.0	182.7
30°	1529.0	1353.1	860.9	463.4	302.8	236.8	225.0	218.2	201.3	187.7	187.7
32.5°	1600.1	1403.9	859.2	421.2	258.8	197.9	187.7	182.7	192.8	199.6	194.5
35°	1698.2	1483.4	854.2	397.5	240.2	182.7	165.8	152.2	145.5	142.1	147.2
37.5°	1803.0	1537.5	840.6	394.1	230.0	174.2	160.7	147.2	140.4	137.0	135.3
40°	1918.1	1595.0	825.4	377.2	225.0	169.1	155.6	143.8	135.3	130.2	128.5
42.5°	1992.5	1640.7	810.2	368.7	214.8	165.8	150.5	140.4	131.9	125.2	125.2
45°	2034.8	1694.8	795.0	360.3	203.0	167.4	150.5	137.0	126.9	123.5	120.1
47.5°	2053.4	1735.4	789.9	346.7	192.8	160.7	147.2	133.6	123.5	116.7	115.0
50°	2102.4	1821.6	808.5	336.6	181.0	153.9	155.6	131.9	121.8	113.3	111.6
52.5°	2131.2	1891.0	849.1	321.4	172.5	145.5	152.2	128.5	116.7	108.3	108.3
55°	2236.0	2006.0	893.1	309.5	162.4	133.6	140.4	121.8	108.3	103.2	103.2
57.5°	2369.7	2127.8	930.3	304.5	155.6	125.2	125.2	118.4	103.2	96.4	94.7
60°	2462.7	2227.6	952.3	301.1	148.8	116.7	111.6	118.4	98.1	91.3	89.6
62.5°	2472.8	2170.1	930.3	299.4	147.2	108.3	101.5	113.3	93.0	86.3	82.9
65°	2408.6	2053.4	869.4	292.6	145.5	99.8	94.7	98.1	86.3	81.2	77.8
67.5°	2280.0	1863.9	781.4	289.2	143.8	93.0	86.3	84.6	79.5	74.4	71.0
70°	1980.6	1617.0	678.3	274.0	140.4	88.0	77.8	76.1	71.0	67.7	66.0
72.5°	1662.7	1322.7	559.9	253.7	133.6	79.5	71.0	67.7	66.0	60.9	59.2
75°	1273.6	1018.2	448.2	225.0	116.7	71.0	62.6	59.2	57.5	54.1	52.4
77.5°	894.8	757.8	331.5	182.7	98.1	64.3	55.8	52.4	50.7	45.7	45.7
80°	607.2	531.1	225.0	126.9	76.1	52.4	49.1	45.7	42.3	38.9	38.9
82.5°	377.2	372.1	162.4	82.9	55.8	42.3	38.9	38.9	33.8	30.4	30.4
85°	172.5	228.3	113.3	57.5	42.3	32.1	32.1	30.4	27.1	22.0	22.0
87.5°	54.1	76.1	59.2	25.4	23.7	18.6	18.6	16.9	16.9	13.5	13.5
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°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1067.3	1065.6	1065.6	1058.8	1075.7	1075.7	1085.9	1077.4	1082.5	1084.2	1097.7
5°	847.4	860.9	871.1	891.4	903.2	908.3	908.3	921.8	916.7	926.9	947.2
7.5°	620.7	637.7	668.1	693.5	713.8	720.5	718.8	722.2	727.3	715.5	718.8
10°	502.3	490.5	500.7	524.3	542.9	564.9	548.0	546.3	551.4	546.3	556.5
12.5°	419.5	405.9	397.5	397.5	411.0	421.2	416.1	424.5	443.1	448.2	460.1
15°	340.0	328.1	321.4	312.9	326.4	329.8	334.9	346.7	360.3	367.0	380.6
17.5°	272.3	272.3	272.3	265.6	270.6	275.7	277.4	292.6	294.3	301.1	306.1
20°	223.3	228.3	236.8	240.2	245.3	245.3	241.9	250.3	243.6	248.6	252.0
22.5°	201.3	208.0	211.4	213.1	219.9	221.6	213.1	214.8	216.5	211.4	213.1
25°	189.4	192.8	189.4	191.1	192.8	189.4	191.1	194.5	192.8	196.2	194.5
27.5°	184.4	181.0	179.3	177.6	177.6	174.2	175.9	175.9	179.3	181.0	181.0
30°	184.4	179.3	172.5	167.4	167.4	162.4	165.8	169.1	170.8	174.2	174.2
32.5°	189.4	179.3	167.4	162.4	157.3	153.9	157.3	162.4	169.1	170.8	172.5
35°	150.5	155.6	153.9	147.2	145.5	145.5	143.8	143.8	138.7	138.7	137.0
37.5°	135.3	133.6	137.0	138.7	140.4	135.3	135.3	128.5	126.9	128.5	128.5
40°	126.9	126.9	126.9	131.9	133.6	130.2	125.2	121.8	121.8	121.8	123.5
42.5°	123.5	120.1	118.4	121.8	126.9	123.5	118.4	116.7	116.7	118.4	118.4
45°	118.4	116.7	115.0	113.3	120.1	115.0	113.3	111.6	111.6	111.6	113.3
47.5°	113.3	111.6	108.3	108.3	109.9	108.3	106.6	106.6	106.6	109.9	109.9
50°	109.9	108.3	104.9	104.9	104.9	104.9	103.2	103.2	103.2	104.9	106.6
52.5°	104.9	103.2	101.5	99.8	99.8	99.8	99.8	99.8	99.8	101.5	103.2
55°	99.8	98.1	96.4	96.4	98.1	98.1	96.4	98.1	96.4	98.1	99.8
57.5°	94.7	93.0	91.3	93.0	94.7	93.0	93.0	93.0	93.0	93.0	94.7
60°	88.0	88.0	88.0	88.0	91.3	91.3	91.3	91.3	88.0	89.6	91.3
62.5°	84.6	82.9	82.9	84.6	86.3	86.3	88.0	86.3	84.6	86.3	86.3
65°	77.8	77.8	77.8	79.5	79.5	81.2	81.2	81.2	79.5	81.2	81.2
67.5°	72.7	72.7	72.7	72.7	76.1	76.1	76.1	76.1	74.4	74.4	76.1
70°	64.3	66.0	64.3	67.7	71.0	69.3	71.0	71.0	69.3	67.7	71.0
72.5°	59.2	59.2	59.2	59.2	64.3	64.3	64.3	66.0	64.3	62.6	64.3
75°	52.4	52.4	52.4	54.1	57.5	57.5	57.5	57.5	57.5	55.8	55.8
77.5°	45.7	47.4	45.7	47.4	50.7	49.1	50.7	52.4	50.7	49.1	49.1
80°	38.9	38.9	38.9	40.6	42.3	42.3	42.3	44.0	42.3	40.6	40.6
82.5°	30.4	30.4	32.1	32.1	33.8	33.8	33.8	35.5	33.8	32.1	32.1
85°	23.7	23.7	23.7	25.4	25.4	27.1	27.1	28.8	28.8	27.1	27.1
87.5°	15.2	13.5	15.2	15.2	16.9	16.9	15.2	13.5	15.2	13.5	11.8
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°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1111.3	1141.7	1163.7	1178.9	1200.9	1243.2	1260.1	1290.5	1299.0	1304.1
5°	955.6	987.8	1035.1	1069.0	1107.9	1187.4	1248.3	1293.9	1314.2	1332.8
7.5°	749.3	791.6	840.6	884.6	948.9	1047.0	1126.5	1221.2	1256.7	1275.3
10°	585.2	624.1	678.3	732.4	822.0	904.9	1018.2	1104.5	1153.5	1167.1
12.5°	493.9	539.6	603.8	669.8	725.6	820.3	935.4	1060.5	1106.2	1114.6
15°	419.5	482.1	548.0	615.7	679.9	762.8	886.3	1038.5	1106.2	1114.6
17.5°	346.7	402.6	480.4	553.1	627.5	740.8	894.8	1057.1	1124.8	1150.2
20°	275.7	329.8	390.7	482.1	583.5	703.6	913.4	1119.7	1209.4	1236.4
22.5°	228.3	252.0	311.2	399.2	519.3	678.3	932.0	1217.8	1312.5	1322.7
25°	199.6	216.5	253.7	336.6	468.5	661.3	975.9	1331.1	1452.9	1452.9
27.5°	186.1	192.8	218.2	292.6	433.0	646.1	1019.9	1456.3	1569.6	1593.3
30°	182.7	199.6	213.1	260.5	394.1	603.8	1060.5	1554.4	1671.1	1672.8
32.5°	179.3	175.9	186.1	226.6	346.7	559.9	1094.3	1654.2	1745.5	1750.6
35°	140.4	147.2	164.1	199.6	311.2	527.7	1111.3	1708.3	1840.3	1845.3
37.5°	131.9	140.4	153.9	184.4	287.5	500.7	1116.3	1813.2	1940.0	1950.2
40°	128.5	135.3	145.5	170.8	268.9	466.8	1126.5	1921.4	2087.2	2073.7
42.5°	121.8	130.2	140.4	164.1	253.7	441.5	1128.2	1980.6	2165.0	2165.0
45°	120.1	125.2	137.0	164.1	236.8	419.5	1101.1	2039.8	2254.7	2227.6
47.5°	113.3	123.5	133.6	159.0	216.5	397.5	1069.0	2070.3	2266.5	2258.0
50°	111.6	121.8	138.7	150.5	204.7	387.3	1062.2	2146.4	2290.2	2288.5
52.5°	108.3	118.4	143.8	143.8	189.4	373.8	1094.3	2180.2	2295.2	2308.8
55°	103.2	118.4	133.6	131.9	175.9	356.9	1129.9	2268.2	2384.9	2381.5
57.5°	99.8	115.0	126.9	120.1	160.7	345.0	1182.3	2352.8	2493.1	2469.5
60°	94.7	115.0	113.3	111.6	148.8	334.9	1226.3	2369.7	2516.8	2532.0
62.5°	91.3	120.1	99.8	103.2	138.7	329.8	1207.7	2242.8	2484.7	2498.2
65°	88.0	103.2	91.3	94.7	135.3	319.7	1134.9	2090.6	2346.0	2405.2
67.5°	81.2	84.6	84.6	88.0	131.9	296.0	986.1	1816.6	2134.6	2166.7
70°	74.4	76.1	76.1	81.2	128.5	268.9	813.6	1571.3	1852.1	1913.0
72.5°	67.7	67.7	67.7	74.4	118.4	246.9	669.8	1207.7	1539.2	1581.5
75°	59.2	59.2	59.2	66.0	106.6	225.0	527.7	898.1	1133.2	1194.1
77.5°	52.4	52.4	50.7	59.2	93.0	182.7	380.6	634.3	798.3	849.1
80°	44.0	42.3	42.3	47.4	72.7	131.9	245.3	448.2	556.5	578.5
82.5°	35.5	33.8	32.1	35.5	52.4	82.9	152.2	312.9	356.9	343.4
85°	33.8	35.5	28.8	27.1	37.2	54.1	96.4	192.8	160.7	160.7
87.5°	13.5	11.8	11.8	10.1	18.6	20.3	42.3	35.5	27.1	27.1
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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