

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: P675882

Luminaire Tested: **CCW-SA-2B-827-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675882  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-827-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SLL distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

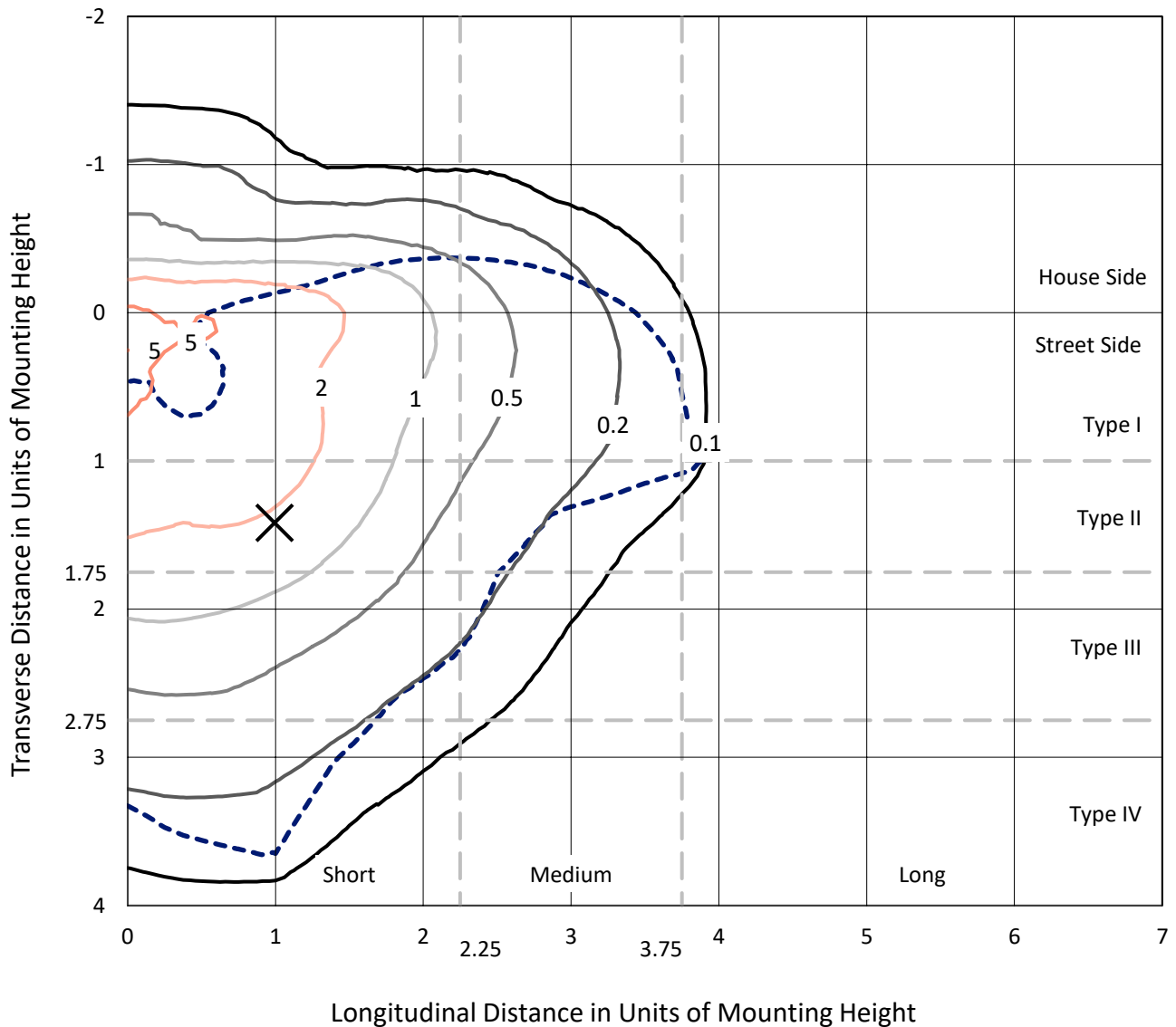
Lumens per Lamp: N/A  
Luminaire Lumens: 4212.3 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

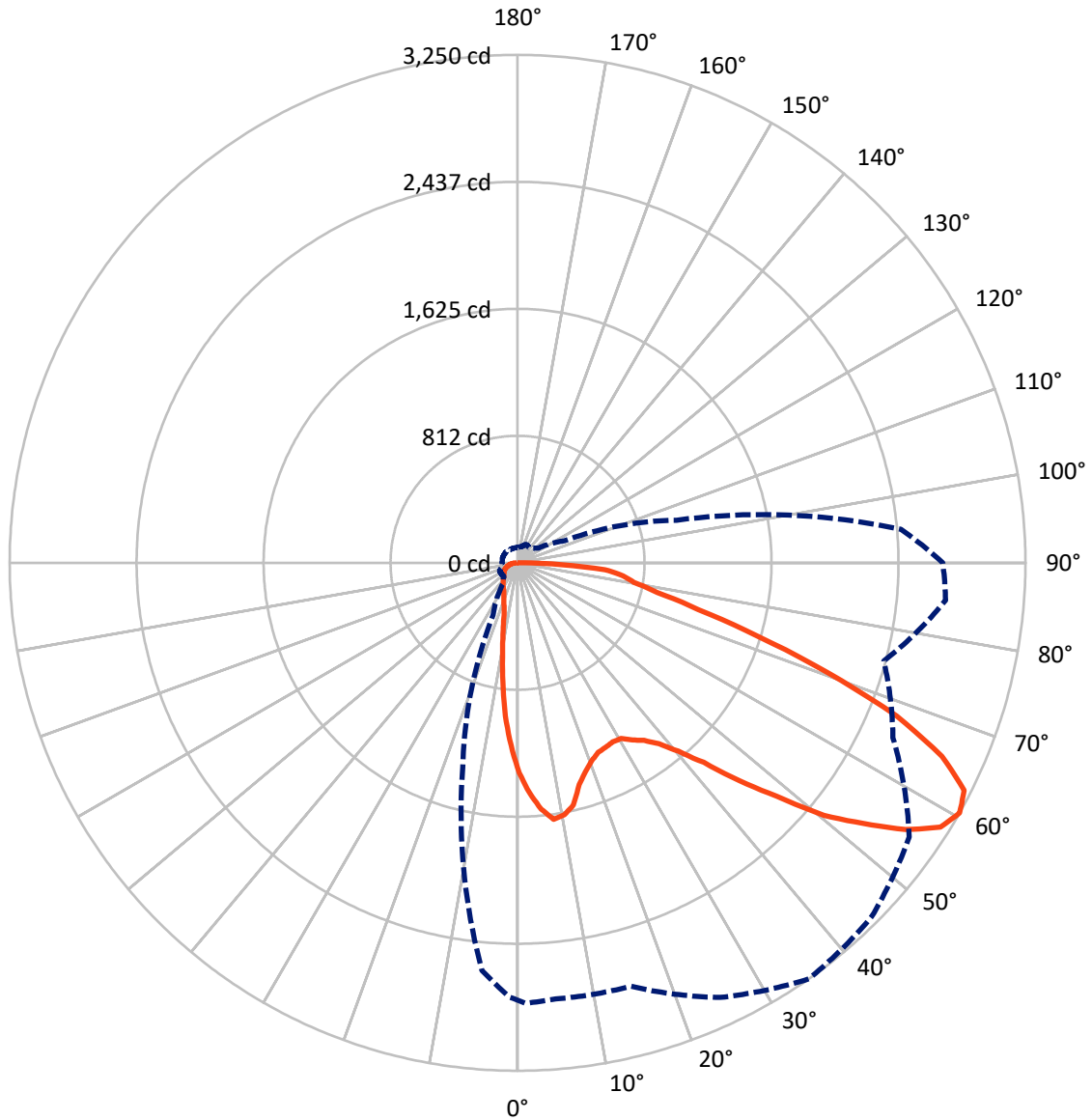
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 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	801.7	0.0	801.7
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	3410.7	0.0	3410.7
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	4212.3	0.0	4212.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.5	2.5
10°-20°	220.7	5.2
20°-30°	322.9	7.7
30°-40°	454.9	10.8
40°-50°	625.2	14.8
50°-60°	852.0	20.2
60°-70°	932.5	22.1
70°-80°	538.4	12.8
80°-90°	161.2	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°	4212.3	100.0
0°-180°	4212.3	100.0



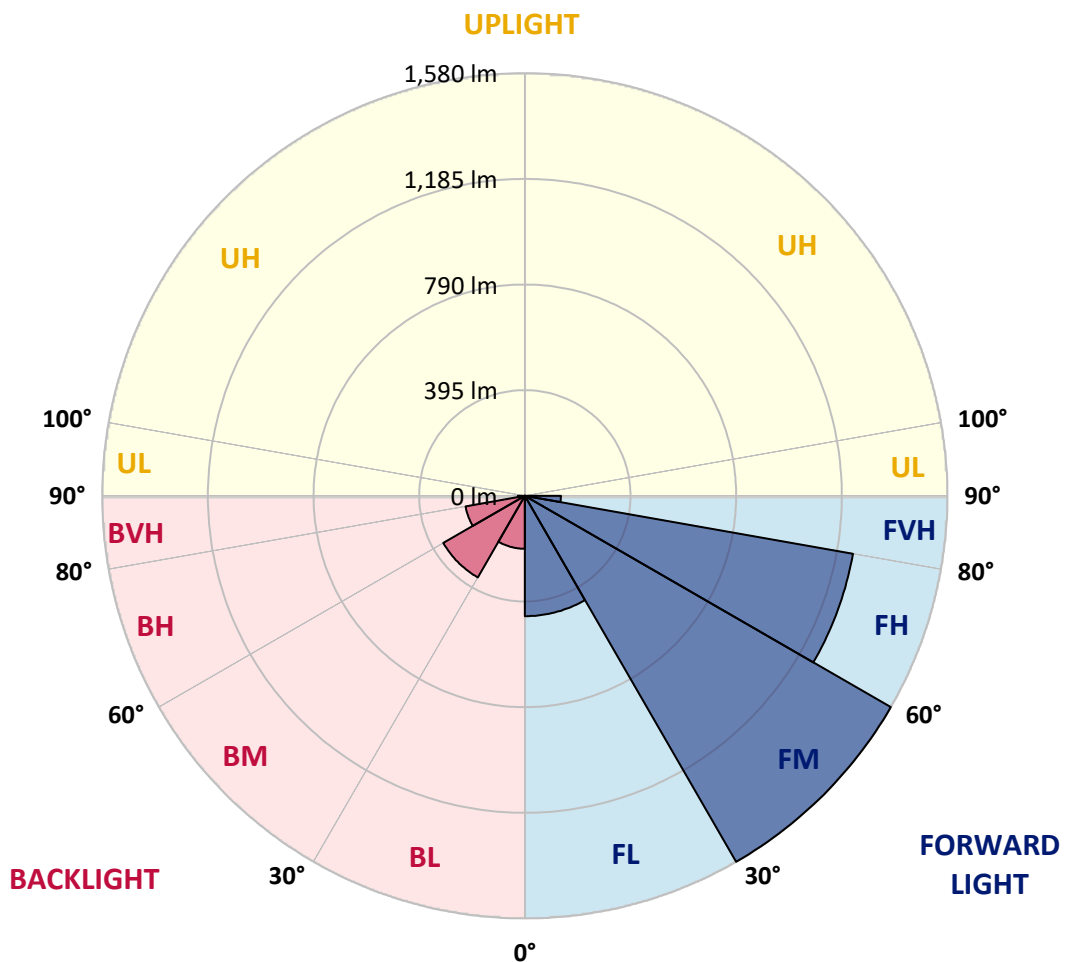
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.0	10.7			
FM (30°-60°)	1580.0	37.5			
FH (60°-80°)	1245.7	29.6			G1/1800
FVH (80°-90°)	135.0	3.2			G2/225
BL (0°-30°)	198.1	4.7	B1/500		
BM (30°-60°)	352.2	8.4	B1/1000		
BH (60°-80°)	225.2	5.3	B1/500		G1/500
BVH (80°-90°)	26.3	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°	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4
2.5°	1440.7	1435.1	1440.7	1461.2	1466.8	1476.2	1476.2	1463.1	1438.8	1427.6	1408.9
5°	1472.5	1463.1	1509.8	1552.8	1586.4	1582.7	1550.9	1524.8	1476.2	1403.3	1334.2
7.5°	1408.9	1418.3	1451.9	1564.0	1642.5	1657.4	1607.0	1554.7	1450.0	1349.1	1255.7
10°	1289.3	1302.4	1375.3	1491.1	1614.5	1638.8	1607.0	1543.5	1418.3	1293.1	1184.7
12.5°	1231.4	1261.3	1304.3	1444.4	1532.2	1590.2	1575.2	1534.1	1394.0	1246.4	1141.7
15°	1231.4	1238.9	1302.4	1420.1	1470.6	1472.5	1478.1	1485.5	1401.4	1266.9	1126.8
17.5°	1270.6	1291.2	1345.4	1418.3	1427.6	1405.2	1405.2	1437.0	1416.4	1324.8	1181.0
20°	1365.9	1358.5	1429.5	1459.4	1408.9	1352.9	1347.3	1401.4	1433.2	1386.5	1280.0
22.5°	1461.2	1494.9	1552.8	1485.5	1392.1	1317.4	1309.9	1377.2	1483.7	1493.0	1394.0
25°	1605.1	1638.8	1668.7	1586.4	1390.2	1308.0	1313.6	1365.9	1545.3	1644.4	1584.6
27.5°	1760.2	1780.8	1823.7	1696.7	1435.1	1296.8	1302.4	1380.9	1603.3	1743.4	1734.1
30°	1848.0	1870.5	1861.1	1717.2	1465.0	1304.3	1289.3	1401.4	1571.5	1743.4	1831.2
32.5°	1934.0	1920.9	1915.3	1750.9	1502.4	1351.0	1313.6	1444.4	1590.2	1771.4	1956.4
35°	2038.6	2020.0	2005.0	1816.3	1564.0	1395.8	1379.0	1500.5	1631.3	1829.4	2057.3
37.5°	2154.5	2154.5	2081.6	1864.9	1636.9	1468.7	1450.0	1580.8	1696.7	1864.9	2195.6
40°	2290.9	2296.5	2167.6	1930.3	1719.1	1584.6	1579.0	1685.5	1760.2	1917.2	2328.3
42.5°	2391.8	2395.5	2242.3	1954.6	1814.4	1745.3	1769.6	1853.6	1833.1	1963.9	2337.6
45°	2460.9	2442.3	2294.6	2023.7	1919.0	1986.3	1993.8	2018.1	1928.4	1991.9	2375.0
47.5°	2494.6	2490.8	2317.1	2104.0	2139.5	2231.1	2274.1	2240.4	2016.2	1962.0	2375.0
50°	2528.2	2496.4	2337.6	2214.3	2354.4	2539.4	2530.1	2468.4	2137.7	1999.4	2339.5
52.5°	2550.6	2522.6	2378.7	2313.3	2560.0	2769.3	2806.6	2692.6	2279.7	2068.5	2356.3
55°	2631.0	2608.6	2502.0	2447.9	2797.3	3012.2	3017.8	2859.0	2429.2	2182.5	2466.5
57.5°	2728.2	2741.2	2672.1	2638.5	2978.5	3189.7	3169.1	2982.3	2556.2	2320.8	2593.6
60°	2797.3	2817.8	2801.0	2804.8	3068.2	3249.5	3202.8	3058.9	2649.7	2425.4	2748.7
62.5°	2759.9	2801.0	2870.2	2855.2	3072.0	3206.5	3141.1	2958.0	2660.9	2561.8	2866.4
65°	2657.1	2660.9	2795.4	2877.6	2903.8	2984.1	2898.2	2746.8	2545.0	2645.9	2849.6
67.5°	2393.7	2423.6	2545.0	2705.7	2595.5	2614.2	2606.7	2388.1	2369.4	2588.0	2720.7
70°	2113.4	2133.9	2266.6	2455.3	2191.9	2104.0	2120.9	1958.3	2034.9	2408.6	2460.9
72.5°	1747.1	1760.2	1911.6	2077.9	1758.3	1601.4	1640.6	1508.0	1616.3	2107.8	2076.0
75°	1319.2	1343.5	1461.2	1657.4	1294.9	1194.0	1233.3	1179.1	1280.0	1735.9	1610.7
77.5°	938.0	919.3	1065.1	1296.8	973.5	913.7	917.5	926.8	1035.2	1463.1	1156.7
80°	639.1	644.7	775.5	951.1	764.3	754.9	745.6	820.3	868.9	1158.5	840.9
82.5°	379.3	379.3	523.2	676.4	603.6	680.2	637.2	704.5	680.2	852.1	551.2
85°	177.5	177.5	269.1	487.7	467.1	560.6	476.5	532.5	502.7	594.2	248.5
87.5°	29.9	26.2	54.2	239.2	192.5	218.6	86.0	284.0	315.8	414.8	61.7
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°	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4
2.5°	1388.4	1375.3	1349.1	1315.5	1287.5	1252.0	1240.7	1216.5	1182.8	1179.1	1164.1
5°	1308.0	1263.2	1207.1	1138.0	1091.3	1042.7	1001.6	977.3	949.2	945.5	938.0
7.5°	1220.2	1164.1	1070.7	988.5	908.1	831.5	794.2	747.4	715.7	691.4	680.2
10°	1138.0	1085.7	969.8	857.7	786.7	736.2	691.4	642.8	603.6	573.7	562.4
12.5°	1083.8	1022.1	896.9	790.4	738.1	680.2	629.7	577.4	526.9	487.7	467.1
15°	1059.5	1001.6	874.5	756.8	680.2	599.8	541.9	489.6	427.9	399.9	390.5
17.5°	1117.4	1031.5	867.0	717.5	609.2	517.6	446.6	390.5	345.7	317.7	306.4
20°	1192.2	1085.7	880.1	670.8	541.9	439.1	360.6	300.8	270.9	250.4	248.5
22.5°	1287.5	1166.0	900.7	637.2	467.1	353.2	282.2	246.7	226.1	224.2	220.5
25°	1457.5	1311.8	934.3	592.3	407.4	291.5	241.0	220.5	211.2	205.5	209.3
27.5°	1603.3	1407.1	958.6	564.3	383.1	274.7	233.6	211.2	201.8	199.9	201.8
30°	1689.2	1494.9	951.1	512.0	334.5	261.6	248.5	241.0	222.4	207.4	207.4
32.5°	1767.7	1550.9	949.2	465.3	285.9	218.6	207.4	201.8	213.0	220.5	214.9
35°	1876.1	1638.8	943.6	439.1	265.3	201.8	183.1	168.2	160.7	157.0	162.6
37.5°	1991.9	1698.6	928.7	435.4	254.1	192.5	177.5	162.6	155.1	151.4	149.5
40°	2119.0	1762.1	911.9	416.7	248.5	186.9	171.9	158.8	149.5	143.9	142.0
42.5°	2201.2	1812.5	895.1	407.4	237.3	183.1	166.3	155.1	145.8	138.3	138.3
45°	2247.9	1872.3	878.2	398.0	224.2	185.0	166.3	151.4	140.1	136.4	132.7
47.5°	2268.5	1917.2	872.6	383.1	213.0	177.5	162.6	147.6	136.4	128.9	127.1
50°	2322.7	2012.5	893.2	371.9	199.9	170.0	171.9	145.8	134.5	125.2	123.3
52.5°	2354.4	2089.1	938.0	355.0	190.6	160.7	168.2	142.0	128.9	119.6	119.6
55°	2470.3	2216.2	986.6	342.0	179.4	147.6	155.1	134.5	119.6	114.0	114.0
57.5°	2617.9	2350.7	1027.7	336.3	171.9	138.3	138.3	130.8	114.0	106.5	104.6
60°	2720.7	2460.9	1052.0	332.6	164.4	128.9	123.3	130.8	108.4	100.9	99.0
62.5°	2731.9	2397.4	1027.7	330.7	162.6	119.6	112.1	125.2	102.8	95.3	91.6
65°	2660.9	2268.5	960.5	323.3	160.7	110.2	104.6	108.4	95.3	89.7	86.0
67.5°	2518.9	2059.2	863.3	319.5	158.8	102.8	95.3	93.4	87.8	82.2	78.5
70°	2188.1	1786.4	749.3	302.7	155.1	97.2	86.0	84.1	78.5	74.7	72.9
72.5°	1836.8	1461.2	618.5	280.3	147.6	87.8	78.5	74.7	72.9	67.3	65.4
75°	1407.1	1124.9	495.2	248.5	128.9	78.5	69.1	65.4	63.5	59.8	57.9
77.5°	988.5	837.1	366.2	201.8	108.4	71.0	61.7	57.9	56.1	50.5	50.5
80°	670.8	586.7	248.5	140.1	84.1	57.9	54.2	50.5	46.7	43.0	43.0
82.5°	416.7	411.1	179.4	91.6	61.7	46.7	43.0	43.0	37.4	33.6	33.6
85°	190.6	252.3	125.2	63.5	46.7	35.5	35.5	33.6	29.9	24.3	24.3
87.5°	59.8	84.1	65.4	28.0	26.2	20.6	20.6	18.7	18.7	14.9	14.9
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4
2.5°	1179.1	1177.2	1177.2	1169.7	1188.4	1188.4	1199.6	1190.3	1195.9	1197.8	1212.7
5°	936.2	951.1	962.3	984.8	997.8	1003.4	1003.4	1018.4	1012.8	1024.0	1046.4
7.5°	685.8	704.5	738.1	766.1	788.5	796.0	794.2	797.9	803.5	790.4	794.2
10°	555.0	541.9	553.1	579.3	599.8	624.1	605.4	603.6	609.2	603.6	614.8
12.5°	463.4	448.5	439.1	439.1	454.1	465.3	459.7	469.0	489.6	495.2	508.3
15°	375.6	362.5	355.0	345.7	360.6	364.4	370.0	383.1	398.0	405.5	420.4
17.5°	300.8	300.8	300.8	293.4	299.0	304.6	306.4	323.3	325.1	332.6	338.2
20°	246.7	252.3	261.6	265.3	270.9	270.9	267.2	276.6	269.1	274.7	278.4
22.5°	222.4	229.8	233.6	235.4	242.9	244.8	235.4	237.3	239.2	233.6	235.4
25°	209.3	213.0	209.3	211.2	213.0	209.3	211.2	214.9	213.0	216.8	214.9
27.5°	203.7	199.9	198.1	196.2	196.2	192.5	194.3	194.3	198.1	199.9	199.9
30°	203.7	198.1	190.6	185.0	185.0	179.4	183.1	186.9	188.7	192.5	192.5
32.5°	209.3	198.1	185.0	179.4	173.8	170.0	173.8	179.4	186.9	188.7	190.6
35°	166.3	171.9	170.0	162.6	160.7	160.7	158.8	158.8	153.2	153.2	151.4
37.5°	149.5	147.6	151.4	153.2	155.1	149.5	149.5	142.0	140.1	142.0	142.0
40°	140.1	140.1	140.1	145.8	147.6	143.9	138.3	134.5	134.5	134.5	136.4
42.5°	136.4	132.7	130.8	134.5	140.1	136.4	130.8	128.9	128.9	130.8	130.8
45°	130.8	128.9	127.1	125.2	132.7	127.1	125.2	123.3	123.3	123.3	125.2
47.5°	125.2	123.3	119.6	119.6	121.5	119.6	117.7	117.7	117.7	121.5	121.5
50°	121.5	119.6	115.9	115.9	115.9	115.9	114.0	114.0	114.0	115.9	117.7
52.5°	115.9	114.0	112.1	110.2	110.2	110.2	110.2	110.2	110.2	112.1	114.0
55°	110.2	108.4	106.5	106.5	108.4	108.4	106.5	108.4	106.5	108.4	110.2
57.5°	104.6	102.8	100.9	102.8	104.6	102.8	102.8	102.8	102.8	102.8	104.6
60°	97.2	97.2	97.2	97.2	100.9	100.9	100.9	100.9	97.2	99.0	100.9
62.5°	93.4	91.6	91.6	93.4	95.3	95.3	97.2	95.3	93.4	95.3	95.3
65°	86.0	86.0	86.0	87.8	87.8	89.7	89.7	89.7	87.8	89.7	89.7
67.5°	80.3	80.3	80.3	80.3	84.1	84.1	84.1	84.1	82.2	82.2	84.1
70°	71.0	72.9	71.0	74.7	78.5	76.6	78.5	78.5	76.6	74.7	78.5
72.5°	65.4	65.4	65.4	65.4	71.0	71.0	71.0	72.9	71.0	69.1	71.0
75°	57.9	57.9	57.9	59.8	63.5	63.5	63.5	63.5	63.5	61.7	61.7
77.5°	50.5	52.3	50.5	52.3	56.1	54.2	56.1	57.9	56.1	54.2	54.2
80°	43.0	43.0	43.0	44.8	46.7	46.7	46.7	48.6	46.7	44.8	44.8
82.5°	33.6	33.6	35.5	35.5	37.4	37.4	37.4	39.2	37.4	35.5	35.5
85°	26.2	26.2	26.2	28.0	28.0	29.9	29.9	31.8	31.8	29.9	29.9
87.5°	16.8	14.9	16.8	16.8	18.7	18.7	16.8	14.9	16.8	14.9	13.1
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4
2.5°	1227.7	1261.3	1285.6	1302.4	1326.7	1373.4	1392.1	1425.7	1435.1	1440.7
5°	1055.8	1091.3	1143.6	1181.0	1223.9	1311.8	1379.0	1429.5	1451.9	1472.5
7.5°	827.8	874.5	928.7	977.3	1048.3	1156.7	1244.5	1349.1	1388.4	1408.9
10°	646.5	689.5	749.3	809.1	908.1	999.7	1124.9	1220.2	1274.4	1289.3
12.5°	545.6	596.1	667.1	740.0	801.6	906.3	1033.3	1171.6	1222.1	1231.4
15°	463.4	532.5	605.4	680.2	751.2	842.7	979.1	1147.3	1222.1	1231.4
17.5°	383.1	444.7	530.7	611.0	693.2	818.4	988.5	1167.9	1242.6	1270.6
20°	304.6	364.4	431.6	532.5	644.7	777.3	1009.0	1237.0	1336.0	1365.9
22.5°	252.3	278.4	343.8	441.0	573.7	749.3	1029.6	1345.4	1450.0	1461.2
25°	220.5	239.2	280.3	371.9	517.6	730.6	1078.2	1470.6	1605.1	1605.1
27.5°	205.5	213.0	241.0	323.3	478.4	713.8	1126.8	1608.9	1734.1	1760.2
30°	201.8	220.5	235.4	287.8	435.4	667.1	1171.6	1717.2	1846.2	1848.0
32.5°	198.1	194.3	205.5	250.4	383.1	618.5	1209.0	1827.5	1928.4	1934.0
35°	155.1	162.6	181.3	220.5	343.8	583.0	1227.7	1887.3	2033.0	2038.6
37.5°	145.8	155.1	170.0	203.7	317.7	553.1	1233.3	2003.1	2143.3	2154.5
40°	142.0	149.5	160.7	188.7	297.1	515.7	1244.5	2122.7	2305.8	2290.9
42.5°	134.5	143.9	155.1	181.3	280.3	487.7	1246.4	2188.1	2391.8	2391.8
45°	132.7	138.3	151.4	181.3	261.6	463.4	1216.5	2253.5	2490.8	2460.9
47.5°	125.2	136.4	147.6	175.6	239.2	439.1	1181.0	2287.2	2503.9	2494.6
50°	123.3	134.5	153.2	166.3	226.1	427.9	1173.5	2371.2	2530.1	2528.2
52.5°	119.6	130.8	158.8	158.8	209.3	413.0	1209.0	2408.6	2535.7	2550.6
55°	114.0	130.8	147.6	145.8	194.3	394.3	1248.2	2505.8	2634.7	2631.0
57.5°	110.2	127.1	140.1	132.7	177.5	381.2	1306.1	2599.2	2754.3	2728.2
60°	104.6	127.1	125.2	123.3	164.4	370.0	1354.7	2617.9	2780.5	2797.3
62.5°	100.9	132.7	110.2	114.0	153.2	364.4	1334.2	2477.8	2745.0	2759.9
65°	97.2	114.0	100.9	104.6	149.5	353.2	1253.8	2309.6	2591.7	2657.1
67.5°	89.7	93.4	93.4	97.2	145.8	327.0	1089.4	2006.9	2358.2	2393.7
70°	82.2	84.1	84.1	89.7	142.0	297.1	898.8	1735.9	2046.1	2113.4
72.5°	74.7	74.7	74.7	82.2	130.8	272.8	740.0	1334.2	1700.4	1747.1
75°	65.4	65.4	65.4	72.9	117.7	248.5	583.0	992.2	1252.0	1319.2
77.5°	57.9	57.9	56.1	65.4	102.8	201.8	420.4	700.7	882.0	938.0
80°	48.6	46.7	46.7	52.3	80.3	145.8	270.9	495.2	614.8	639.1
82.5°	39.2	37.4	35.5	39.2	57.9	91.6	168.2	345.7	394.3	379.3
85°	37.4	39.2	31.8	29.9	41.1	59.8	106.5	213.0	177.5	177.5
87.5°	14.9	13.1	13.1	11.2	20.6	22.4	46.7	39.2	29.9	29.9
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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