

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: P675926

Luminaire Tested: **CCW-SA-2B-850-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675926  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-850-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SLL distribution lens  
Light Source: (32) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5000.2 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

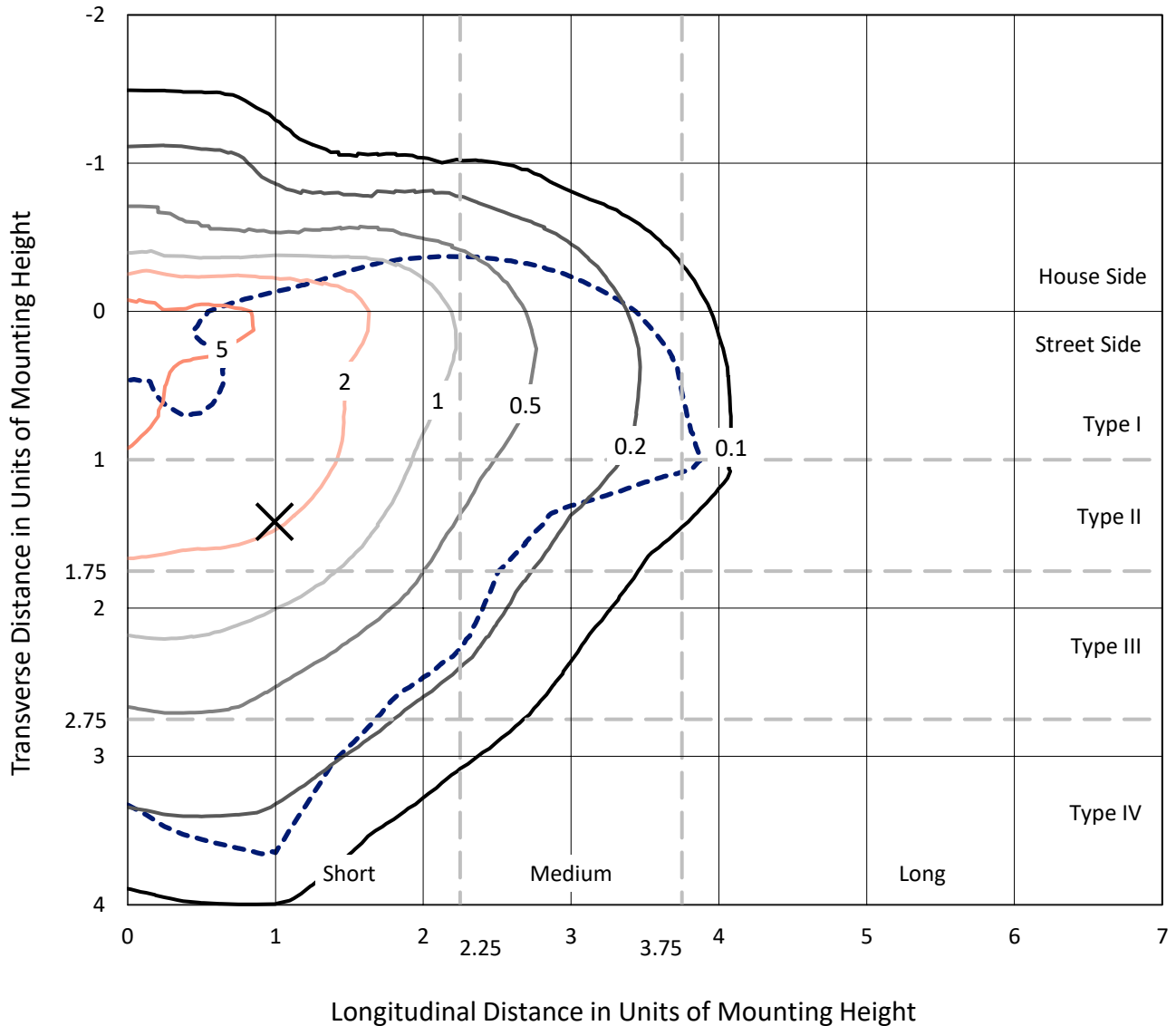
Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

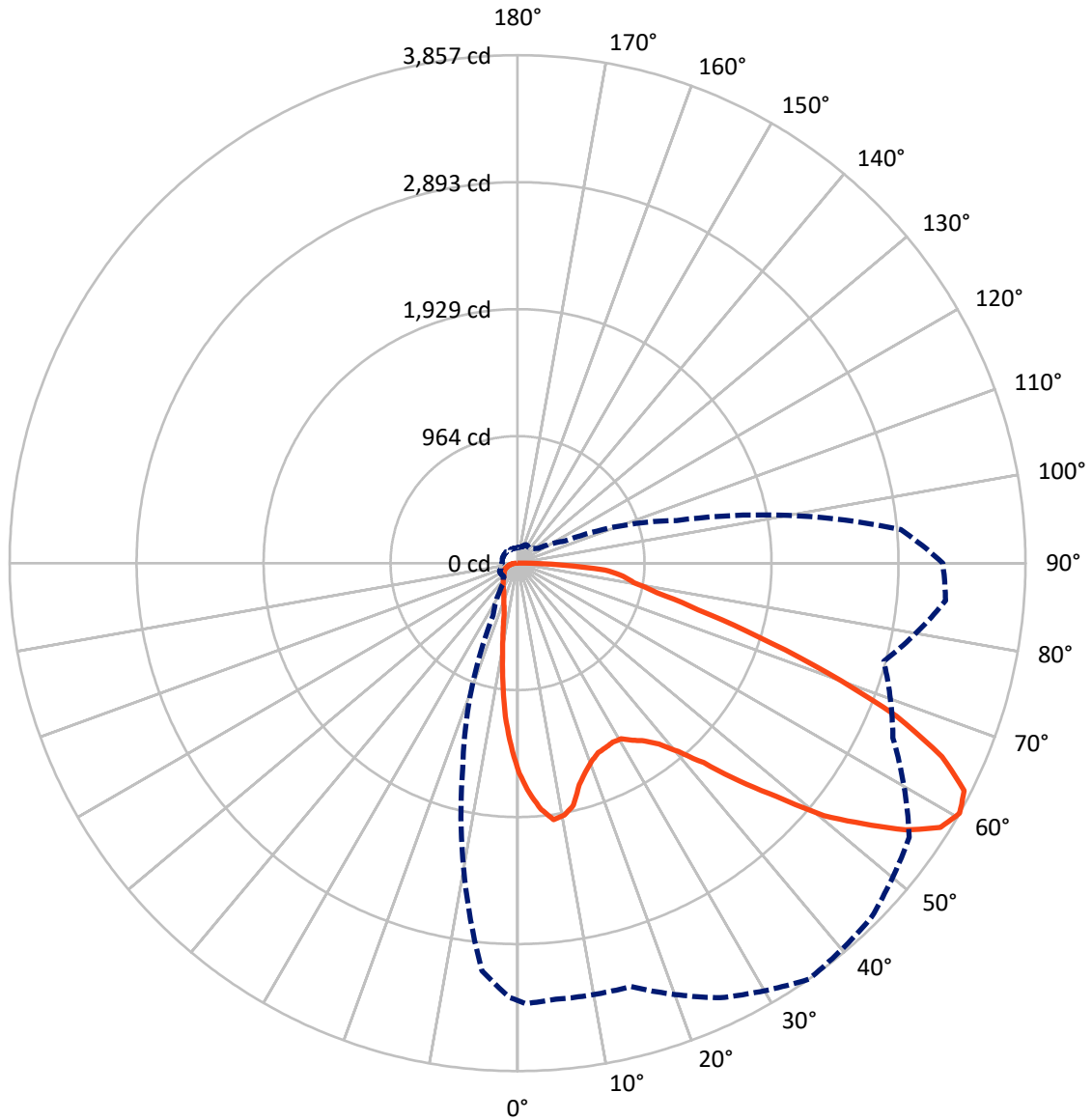
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.1 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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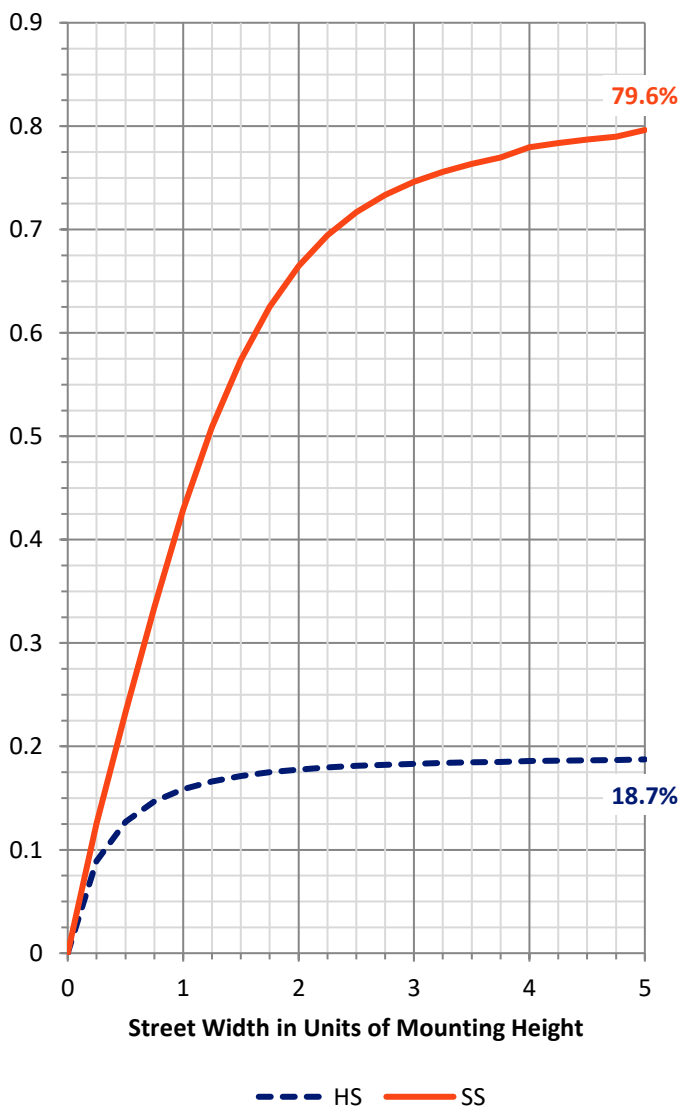
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	951.6	0.0	951.6
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	4048.6	0.0	4048.6
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	5000.2	0.0	5000.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.1	2.5
10°-20°	261.9	5.2
20°-30°	383.3	7.7
30°-40°	540.0	10.8
40°-50°	742.1	14.8
50°-60°	1011.4	20.2
60°-70°	1107.0	22.1
70°-80°	639.1	12.8
80°-90°	191.4	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°	5000.2	100.0
0°-180°	5000.2	100.0



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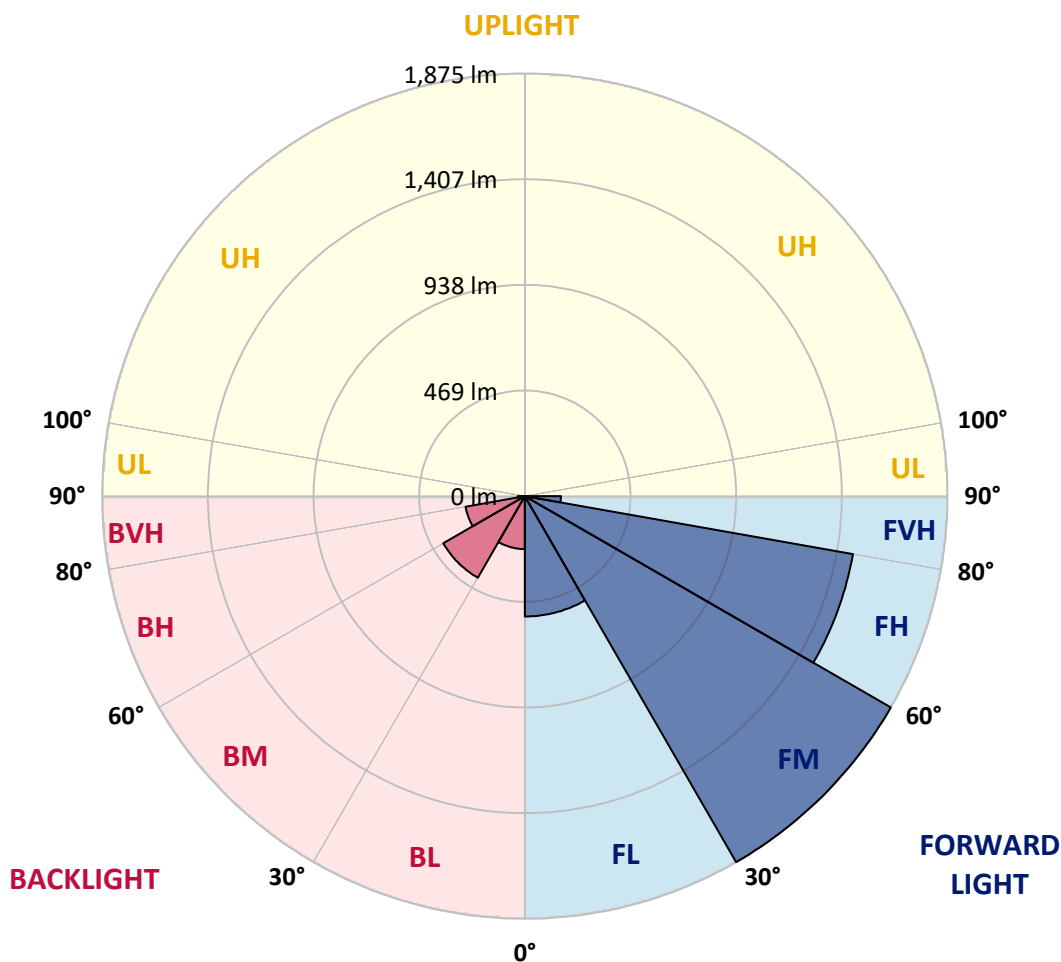
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.2	10.7			
FM (30°-60°)	1875.5	37.5			
FH (60°-80°)	1478.8	29.6			G1/1800
FVH (80°-90°)	160.2	3.2			G2/225
BL (0°-30°)	235.1	4.7	B1/500		
BM (30°-60°)	418.0	8.4	B1/1000		
BH (60°-80°)	267.3	5.3	B1/500		G1/500
BVH (80°-90°)	31.2	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°	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0
2.5°	1710.2	1703.5	1710.2	1734.6	1741.2	1752.3	1752.3	1736.8	1707.9	1694.6	1672.5
5°	1747.9	1736.8	1792.2	1843.3	1883.2	1878.7	1841.0	1810.0	1752.3	1665.8	1583.7
7.5°	1672.5	1683.5	1723.5	1856.6	1949.7	1967.5	1907.6	1845.5	1721.3	1601.5	1490.6
10°	1530.5	1546.0	1632.5	1770.1	1916.5	1945.3	1907.6	1832.2	1683.5	1534.9	1406.3
12.5°	1461.7	1497.2	1548.2	1714.6	1818.9	1887.6	1869.9	1821.1	1654.7	1479.5	1355.3
15°	1461.7	1470.6	1546.0	1685.8	1745.7	1747.9	1754.5	1763.4	1663.6	1503.9	1337.5
17.5°	1508.3	1532.7	1597.0	1683.5	1694.6	1668.0	1668.0	1705.7	1681.3	1572.6	1401.8
20°	1621.4	1612.6	1696.9	1732.3	1672.5	1605.9	1599.3	1663.6	1701.3	1645.8	1519.4
22.5°	1734.6	1774.5	1843.3	1763.4	1652.5	1563.8	1554.9	1634.8	1761.2	1772.3	1654.7
25°	1905.4	1945.3	1980.8	1883.2	1650.3	1552.7	1559.3	1621.4	1834.4	1951.9	1881.0
27.5°	2089.5	2113.9	2164.9	2014.0	1703.5	1539.4	1546.0	1639.2	1903.1	2069.5	2058.4
30°	2193.7	2220.3	2209.2	2038.4	1739.0	1548.2	1530.5	1663.6	1865.4	2069.5	2173.8
32.5°	2295.7	2280.2	2273.6	2078.4	1783.4	1603.7	1559.3	1714.6	1887.6	2102.8	2322.4
35°	2420.0	2397.8	2380.0	2156.0	1856.6	1656.9	1637.0	1781.1	1936.4	2171.5	2442.1
37.5°	2557.5	2557.5	2471.0	2213.7	1943.1	1743.4	1721.3	1876.5	2014.0	2213.7	2606.3
40°	2719.4	2726.1	2573.0	2291.3	2040.7	1881.0	1874.3	2000.7	2089.5	2275.8	2763.8
42.5°	2839.2	2843.6	2661.7	2320.1	2153.8	2071.7	2100.6	2200.4	2176.0	2331.2	2774.9
45°	2921.3	2899.1	2723.8	2402.2	2278.0	2357.9	2366.7	2395.6	2289.1	2364.5	2819.2
47.5°	2961.2	2956.7	2750.5	2497.6	2539.7	2648.4	2699.4	2659.5	2393.3	2329.0	2819.2
50°	3001.1	2963.4	2774.9	2628.5	2794.8	3014.4	3003.3	2930.1	2537.5	2373.4	2777.1
52.5°	3027.7	2994.5	2823.7	2746.0	3038.8	3287.2	3331.6	3196.3	2706.1	2455.5	2797.0
55°	3123.1	3096.5	2970.1	2905.7	3320.5	3575.6	3582.3	3393.7	2883.6	2590.8	2927.9
57.5°	3238.4	3254.0	3171.9	3132.0	3535.7	3786.3	3761.9	3540.1	3034.4	2754.9	3078.7
60°	3320.5	3344.9	3325.0	3329.4	3642.1	3857.3	3801.9	3631.1	3145.3	2879.1	3262.8
62.5°	3276.2	3325.0	3407.0	3389.3	3646.6	3806.3	3728.7	3511.3	3158.6	3041.0	3402.6
65°	3154.2	3158.6	3318.3	3415.9	3447.0	3542.3	3440.3	3260.6	3021.1	3140.9	3382.6
67.5°	2841.4	2876.9	3021.1	3211.8	3081.0	3103.1	3094.3	2834.8	2812.6	3072.1	3229.6
70°	2508.7	2533.1	2690.6	2914.6	2601.8	2497.6	2517.6	2324.6	2415.5	2859.2	2921.3
72.5°	2073.9	2089.5	2269.1	2466.5	2087.2	1900.9	1947.5	1790.0	1918.7	2502.0	2464.3
75°	1566.0	1594.8	1734.6	1967.5	1537.2	1417.4	1464.0	1399.6	1519.4	2060.6	1912.0
77.5°	1113.5	1091.3	1264.3	1539.4	1155.6	1084.7	1089.1	1100.2	1228.8	1736.8	1373.0
80°	758.6	765.2	920.5	1129.0	907.2	896.1	885.0	973.8	1031.4	1375.2	998.2
82.5°	450.3	450.3	621.1	803.0	716.5	807.4	756.4	836.2	807.4	1011.5	654.3
85°	210.7	210.7	319.4	578.9	554.5	665.4	565.6	632.2	596.7	705.4	295.0
87.5°	35.5	31.1	64.3	283.9	228.5	259.5	102.0	337.2	374.9	492.4	73.2
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0
2.5°	1648.1	1632.5	1601.5	1561.6	1528.3	1486.1	1472.8	1444.0	1404.1	1399.6	1381.9
5°	1552.7	1499.4	1432.9	1350.8	1295.4	1237.7	1188.9	1160.1	1126.8	1122.4	1113.5
7.5°	1448.4	1381.9	1271.0	1173.4	1078.0	987.1	942.7	887.2	849.5	820.7	807.4
10°	1350.8	1288.7	1151.2	1018.1	933.8	873.9	820.7	763.0	716.5	681.0	667.7
12.5°	1286.5	1213.3	1064.7	938.3	876.2	807.4	747.5	685.4	625.5	578.9	554.5
15°	1257.7	1188.9	1038.1	898.3	807.4	712.0	643.3	581.1	507.9	474.7	463.6
17.5°	1326.4	1224.4	1029.2	851.8	723.1	614.4	530.1	463.6	410.4	377.1	363.8
20°	1415.2	1288.7	1044.7	796.3	643.3	521.3	428.1	357.1	321.6	297.2	295.0
22.5°	1528.3	1384.1	1069.1	756.4	554.5	419.2	334.9	292.8	268.4	266.2	261.7
25°	1730.1	1557.1	1109.1	703.1	483.5	346.0	286.1	261.7	250.6	244.0	248.4
27.5°	1903.1	1670.2	1137.9	669.9	454.7	326.1	277.3	250.6	239.6	237.3	239.6
30°	2005.2	1774.5	1129.0	607.8	397.0	310.5	295.0	286.1	264.0	246.2	246.2
32.5°	2098.3	1841.0	1126.8	552.3	339.4	259.5	246.2	239.6	252.9	261.7	255.1
35°	2227.0	1945.3	1120.1	521.3	315.0	239.6	217.4	199.6	190.8	186.3	193.0
37.5°	2364.5	2016.3	1102.4	516.8	301.7	228.5	210.7	193.0	184.1	179.7	177.4
40°	2515.3	2091.7	1082.4	494.6	295.0	221.8	204.1	188.5	177.4	170.8	168.6
42.5°	2612.9	2151.6	1062.5	483.5	281.7	217.4	197.4	184.1	173.0	164.1	164.1
45°	2668.4	2222.6	1042.5	472.5	266.2	219.6	197.4	179.7	166.4	161.9	157.5
47.5°	2692.8	2275.8	1035.9	454.7	252.9	210.7	193.0	175.2	161.9	153.0	150.8
50°	2757.1	2388.9	1060.3	441.4	237.3	201.8	204.1	173.0	159.7	148.6	146.4
52.5°	2794.8	2479.9	1113.5	421.4	226.2	190.8	199.6	168.6	153.0	142.0	142.0
55°	2932.3	2630.7	1171.2	405.9	212.9	175.2	184.1	159.7	142.0	135.3	135.3
57.5°	3107.6	2790.4	1220.0	399.3	204.1	164.1	164.1	155.3	135.3	126.4	124.2
60°	3229.6	2921.3	1248.8	394.8	195.2	153.0	146.4	155.3	128.7	119.8	117.6
62.5°	3242.9	2845.8	1220.0	392.6	193.0	142.0	133.1	148.6	122.0	113.1	108.7
65°	3158.6	2692.8	1140.1	383.7	190.8	130.9	124.2	128.7	113.1	106.5	102.0
67.5°	2990.0	2444.4	1024.8	379.3	188.5	122.0	113.1	110.9	104.3	97.6	93.2
70°	2597.4	2120.5	889.5	359.3	184.1	115.3	102.0	99.8	93.2	88.7	86.5
72.5°	2180.4	1734.6	734.2	332.7	175.2	104.3	93.2	88.7	86.5	79.9	77.6
75°	1670.2	1335.3	587.8	295.0	153.0	93.2	82.1	77.6	75.4	71.0	68.8
77.5°	1173.4	993.7	434.8	239.6	128.7	84.3	73.2	68.8	66.5	59.9	59.9
80°	796.3	696.5	295.0	166.4	99.8	68.8	64.3	59.9	55.5	51.0	51.0
82.5°	494.6	488.0	212.9	108.7	73.2	55.5	51.0	51.0	44.4	39.9	39.9
85°	226.2	299.4	148.6	75.4	55.5	42.1	42.1	39.9	35.5	28.8	28.8
87.5°	71.0	99.8	77.6	33.3	31.1	24.4	24.4	22.2	22.2	17.7	17.7
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0
2.5°	1399.6	1397.4	1397.4	1388.5	1410.7	1410.7	1424.0	1412.9	1419.6	1421.8	1439.6
5°	1111.3	1129.0	1142.3	1168.9	1184.5	1191.1	1191.1	1208.9	1202.2	1215.5	1242.1
7.5°	814.0	836.2	876.2	909.4	936.0	944.9	942.7	947.1	953.8	938.3	942.7
10°	658.8	643.3	656.6	687.6	712.0	740.9	718.7	716.5	723.1	716.5	729.8
12.5°	550.1	532.3	521.3	521.3	539.0	552.3	545.7	556.7	581.1	587.8	603.3
15°	445.8	430.3	421.4	410.4	428.1	432.5	439.2	454.7	472.5	481.3	499.1
17.5°	357.1	357.1	357.1	348.2	354.9	361.6	363.8	383.7	386.0	394.8	401.5
20°	292.8	299.4	310.5	315.0	321.6	321.6	317.2	328.3	319.4	326.1	330.5
22.5°	264.0	272.8	277.3	279.5	288.4	290.6	279.5	281.7	283.9	277.3	279.5
25°	248.4	252.9	248.4	250.6	252.9	248.4	250.6	255.1	252.9	257.3	255.1
27.5°	241.8	237.3	235.1	232.9	232.9	228.5	230.7	230.7	235.1	237.3	237.3
30°	241.8	235.1	226.2	219.6	219.6	212.9	217.4	221.8	224.0	228.5	228.5
32.5°	248.4	235.1	219.6	212.9	206.3	201.8	206.3	212.9	221.8	224.0	226.2
35°	197.4	204.1	201.8	193.0	190.8	190.8	188.5	188.5	181.9	181.9	179.7
37.5°	177.4	175.2	179.7	181.9	184.1	177.4	177.4	168.6	166.4	168.6	168.6
40°	166.4	166.4	166.4	173.0	175.2	170.8	164.1	159.7	159.7	159.7	161.9
42.5°	161.9	157.5	155.3	159.7	166.4	161.9	155.3	153.0	153.0	155.3	155.3
45°	155.3	153.0	150.8	148.6	157.5	150.8	148.6	146.4	146.4	146.4	148.6
47.5°	148.6	146.4	142.0	142.0	144.2	142.0	139.7	139.7	139.7	144.2	144.2
50°	144.2	142.0	137.5	137.5	137.5	137.5	135.3	135.3	135.3	137.5	139.7
52.5°	137.5	135.3	133.1	130.9	130.9	130.9	130.9	130.9	130.9	133.1	135.3
55°	130.9	128.7	126.4	126.4	128.7	128.7	126.4	128.7	126.4	128.7	130.9
57.5°	124.2	122.0	119.8	122.0	124.2	122.0	122.0	122.0	122.0	122.0	124.2
60°	115.3	115.3	115.3	115.3	119.8	119.8	119.8	119.8	115.3	117.6	119.8
62.5°	110.9	108.7	108.7	110.9	113.1	113.1	115.3	113.1	110.9	113.1	113.1
65°	102.0	102.0	102.0	104.3	104.3	106.5	106.5	106.5	104.3	106.5	106.5
67.5°	95.4	95.4	95.4	95.4	99.8	99.8	99.8	99.8	97.6	97.6	99.8
70°	84.3	86.5	84.3	88.7	93.2	90.9	93.2	93.2	90.9	88.7	93.2
72.5°	77.6	77.6	77.6	77.6	84.3	84.3	84.3	86.5	84.3	82.1	84.3
75°	68.8	68.8	68.8	71.0	75.4	75.4	75.4	75.4	75.4	73.2	73.2
77.5°	59.9	62.1	59.9	62.1	66.5	64.3	66.5	68.8	66.5	64.3	64.3
80°	51.0	51.0	51.0	53.2	55.5	55.5	55.5	57.7	55.5	53.2	53.2
82.5°	39.9	39.9	42.1	42.1	44.4	44.4	44.4	46.6	44.4	42.1	42.1
85°	31.1	31.1	31.1	33.3	33.3	35.5	35.5	37.7	37.7	35.5	35.5
87.5°	20.0	17.7	20.0	20.0	22.2	22.2	20.0	17.7	20.0	17.7	15.5
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0	1597.0
2.5°	1457.3	1497.2	1526.1	1546.0	1574.9	1630.3	1652.5	1692.4	1703.5	1710.2
5°	1253.2	1295.4	1357.5	1401.8	1452.9	1557.1	1637.0	1696.9	1723.5	1747.9
7.5°	982.6	1038.1	1102.4	1160.1	1244.4	1373.0	1477.3	1601.5	1648.1	1672.5
10°	767.5	818.5	889.5	960.4	1078.0	1186.7	1335.3	1448.4	1512.8	1530.5
12.5°	647.7	707.6	791.9	878.4	951.6	1075.8	1226.6	1390.8	1450.6	1461.7
15°	550.1	632.2	718.7	807.4	891.7	1000.4	1162.3	1361.9	1450.6	1461.7
17.5°	454.7	527.9	629.9	725.3	822.9	971.5	1173.4	1386.3	1475.0	1508.3
20°	361.6	432.5	512.4	632.2	765.2	922.7	1197.8	1468.4	1586.0	1621.4
22.5°	299.4	330.5	408.1	523.5	681.0	889.5	1222.2	1597.0	1721.3	1734.6
25°	261.7	283.9	332.7	441.4	614.4	867.3	1279.9	1745.7	1905.4	1905.4
27.5°	244.0	252.9	286.1	383.7	567.8	847.3	1337.5	1909.8	2058.4	2089.5
30°	239.6	261.7	279.5	341.6	516.8	791.9	1390.8	2038.4	2191.5	2193.7
32.5°	235.1	230.7	244.0	297.2	454.7	734.2	1435.1	2169.3	2289.1	2295.7
35°	184.1	193.0	215.2	261.7	408.1	692.1	1457.3	2240.3	2413.3	2420.0
37.5°	173.0	184.1	201.8	241.8	377.1	656.6	1464.0	2377.8	2544.2	2557.5
40°	168.6	177.4	190.8	224.0	352.7	612.2	1477.3	2519.8	2737.2	2719.4
42.5°	159.7	170.8	184.1	215.2	332.7	578.9	1479.5	2597.4	2839.2	2839.2
45°	157.5	164.1	179.7	215.2	310.5	550.1	1444.0	2675.0	2956.7	2921.3
47.5°	148.6	161.9	175.2	208.5	283.9	521.3	1401.8	2715.0	2972.3	2961.2
50°	146.4	159.7	181.9	197.4	268.4	507.9	1393.0	2814.8	3003.3	3001.1
52.5°	142.0	155.3	188.5	188.5	248.4	490.2	1435.1	2859.2	3010.0	3027.7
55°	135.3	155.3	175.2	173.0	230.7	468.0	1481.7	2974.5	3127.5	3123.1
57.5°	130.9	150.8	166.4	157.5	210.7	452.5	1550.5	3085.4	3269.5	3238.4
60°	124.2	150.8	148.6	146.4	195.2	439.2	1608.1	3107.6	3300.6	3320.5
62.5°	119.8	157.5	130.9	135.3	181.9	432.5	1583.7	2941.2	3258.4	3276.2
65°	115.3	135.3	119.8	124.2	177.4	419.2	1488.4	2741.6	3076.5	3154.2
67.5°	106.5	110.9	110.9	115.3	173.0	388.2	1293.2	2382.3	2799.3	2841.4
70°	97.6	99.8	99.8	106.5	168.6	352.7	1066.9	2060.6	2428.8	2508.7
72.5°	88.7	88.7	88.7	97.6	155.3	323.8	878.4	1583.7	2018.5	2073.9
75°	77.6	77.6	77.6	86.5	139.7	295.0	692.1	1177.8	1486.1	1566.0
77.5°	68.8	68.8	66.5	77.6	122.0	239.6	499.1	831.8	1047.0	1113.5
80°	57.7	55.5	55.5	62.1	95.4	173.0	321.6	587.8	729.8	758.6
82.5°	46.6	44.4	42.1	46.6	68.8	108.7	199.6	410.4	468.0	450.3
85°	44.4	46.6	37.7	35.5	48.8	71.0	126.4	252.9	210.7	210.7
87.5°	17.7	15.5	15.5	13.3	24.4	26.6	55.5	46.6	35.5	35.5
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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