

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: P677307

Luminaire Tested: **CCW-SA-1D-760-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677307  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-760-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

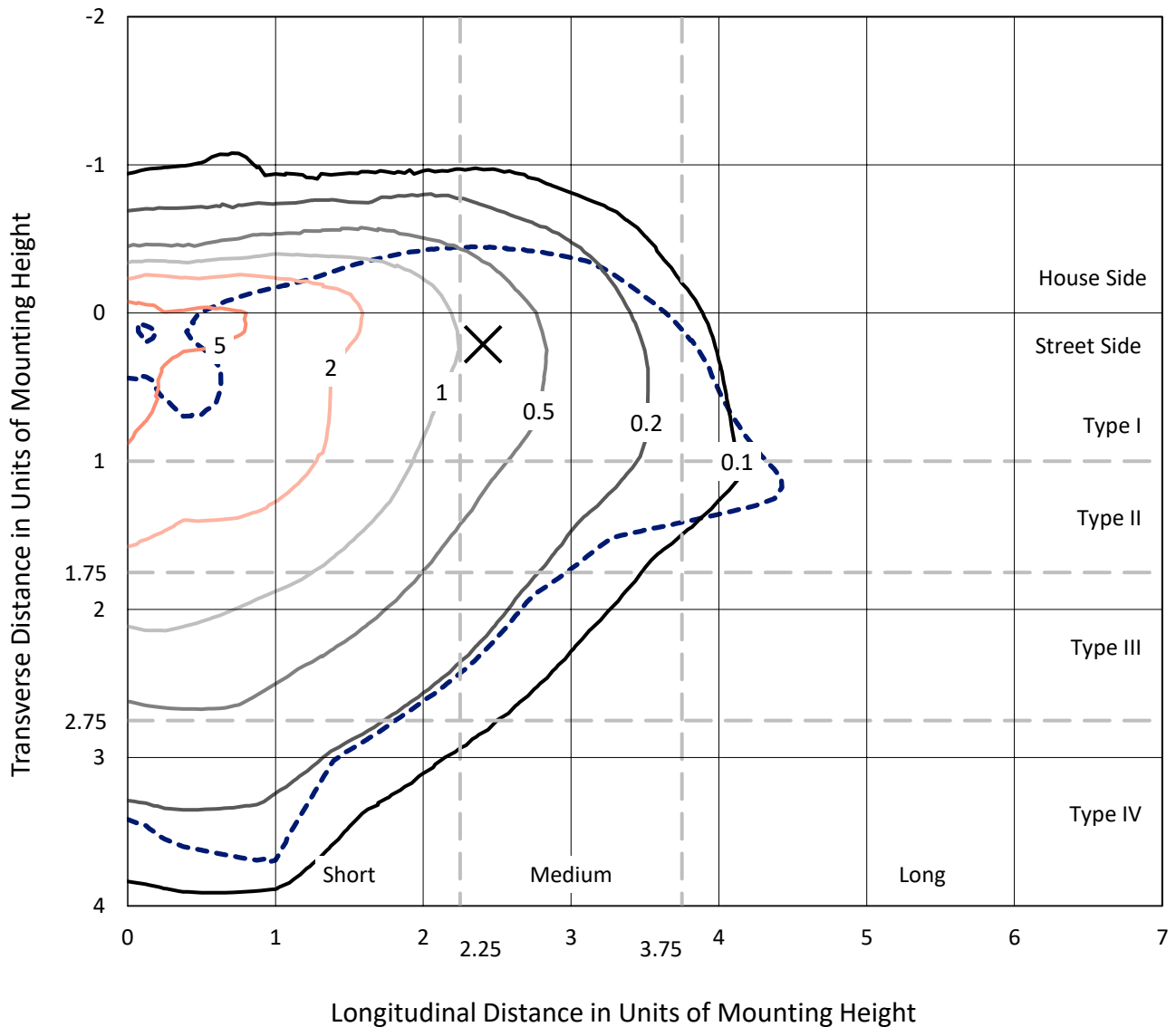
Lumens per Lamp: N/A  
Luminaire Lumens: 4138.9 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

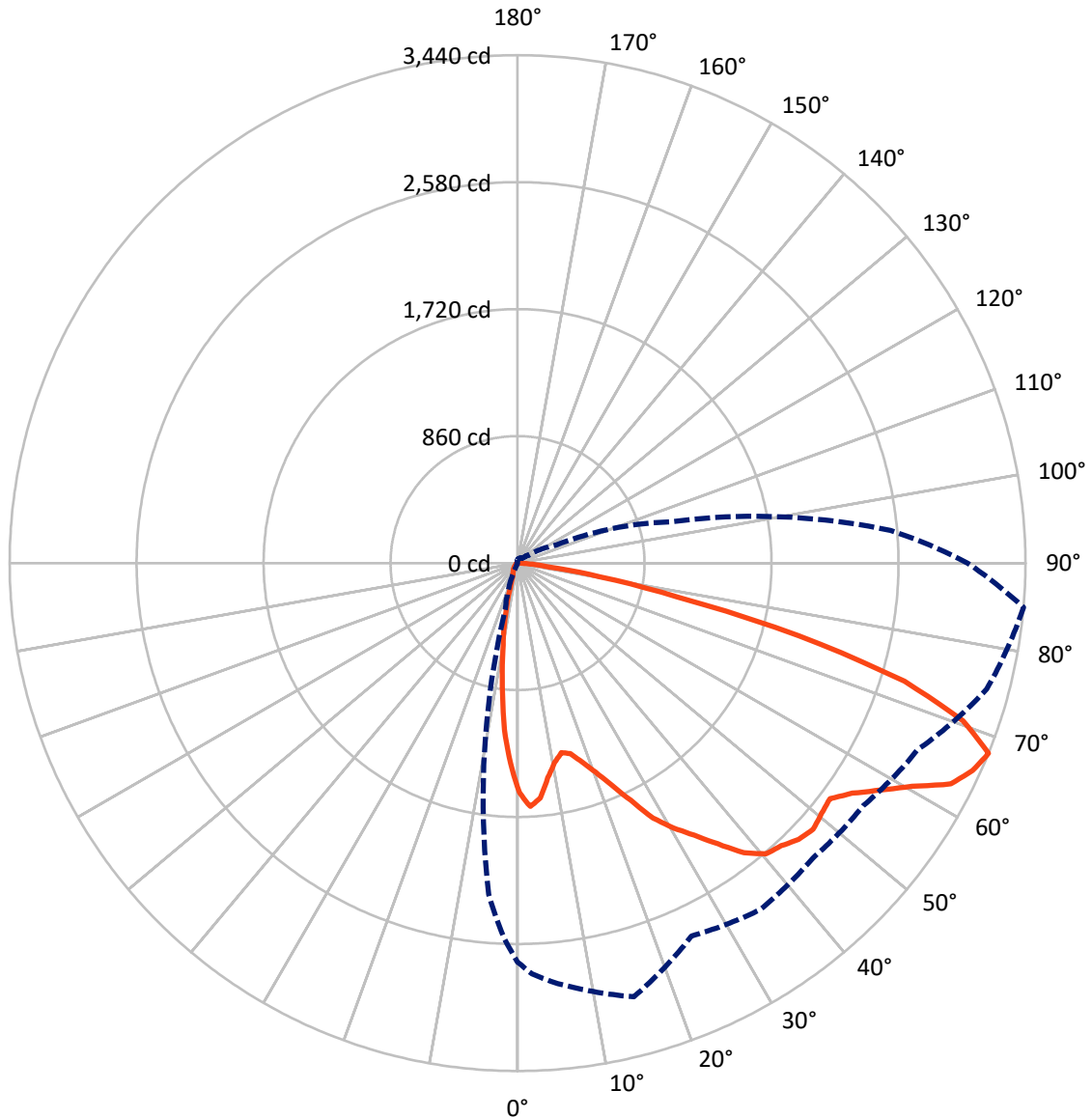
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.8 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	718.7	0.0	718.7
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	3420.3	0.0	3420.3
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	4138.9	0.0	4138.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.2	2.9
10°-20°	231.8	5.6
20°-30°	320.8	7.8
30°-40°	453.4	11.0
40°-50°	617.3	14.9
50°-60°	817.6	19.8
60°-70°	949.3	22.9
70°-80°	537.6	13.0
80°-90°	92.9	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°	4138.9	100.0
0°-180°	4138.9	100.0



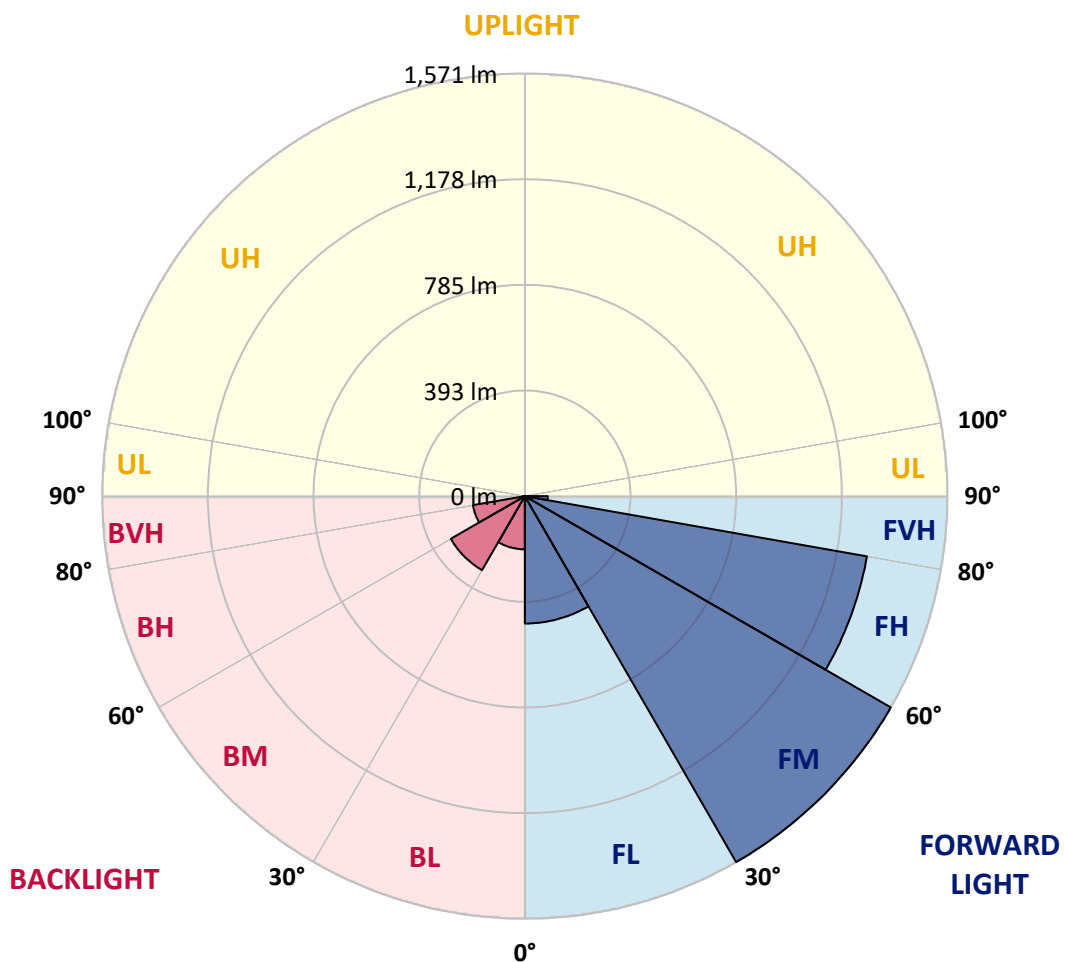
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.3	11.4			
FM (30°-60°)	1570.8	38.0			
FH (60°-80°)	1291.1	31.2			G1/1800
FVH (80°-90°)	85.1	2.1			G1/100
BL (0°-30°)	197.6	4.8	B1/500		
BM (30°-60°)	317.5	7.7	B1/1000		
BH (60°-80°)	195.7	4.7	B1/500		G1/500
BVH (80°-90°)	7.8	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-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2
2.5°	1617.0	1651.3	1652.4	1667.8	1683.3	1683.3	1719.8	1710.9	1678.9	1673.4	1650.2
5°	1629.2	1641.3	1650.2	1728.6	1794.9	1788.3	1808.2	1794.9	1733.0	1653.5	1599.3
7.5°	1524.2	1537.4	1572.8	1706.5	1796.0	1825.9	1863.5	1780.6	1715.4	1571.7	1467.8
10°	1384.9	1410.3	1475.5	1628.0	1738.6	1833.6	1833.6	1767.3	1641.3	1500.9	1373.8
12.5°	1307.5	1358.4	1393.7	1548.5	1692.2	1757.4	1755.1	1719.8	1638.0	1461.2	1317.5
15°	1320.8	1335.2	1410.3	1530.8	1625.8	1622.5	1662.3	1651.3	1593.8	1496.5	1338.5
17.5°	1381.6	1403.7	1468.9	1530.8	1576.1	1562.8	1561.7	1614.8	1618.1	1556.2	1416.9
20°	1481.0	1546.3	1577.2	1596.0	1540.7	1484.4	1477.7	1551.8	1609.3	1632.5	1510.9
22.5°	1640.2	1683.3	1746.3	1650.2	1506.5	1435.7	1422.5	1504.3	1620.3	1723.1	1632.5
25°	1796.0	1829.2	1890.0	1766.2	1545.2	1425.8	1402.6	1473.3	1662.3	1849.1	1779.5
27.5°	1960.7	1989.5	1996.1	1851.3	1566.2	1405.9	1378.3	1473.3	1697.7	1915.4	1955.2
30°	2061.3	2095.6	2102.2	1926.5	1600.4	1422.5	1409.2	1479.9	1722.0	1971.8	2081.2
32.5°	2174.0	2182.9	2177.4	1939.7	1638.0	1471.1	1415.8	1524.2	1749.6	2039.2	2196.1
35°	2308.9	2324.4	2268.0	2000.5	1722.0	1502.0	1482.2	1578.3	1797.1	2070.1	2335.4
37.5°	2411.7	2460.3	2333.2	2023.7	1738.6	1567.3	1570.6	1691.0	1830.3	2107.7	2489.0
40°	2605.1	2523.3	2443.7	2103.3	1801.6	1677.8	1660.1	1807.1	1941.9	2132.0	2589.6
42.5°	2711.2	2668.1	2486.8	2111.0	1898.8	1830.3	1834.7	1938.6	2000.5	2200.6	2617.3
45°	2737.7	2692.4	2545.4	2116.6	1995.0	2010.5	2086.7	2106.6	2086.7	2245.9	2669.2
47.5°	2805.1	2706.8	2538.8	2190.6	2150.8	2210.5	2307.8	2350.9	2203.9	2229.3	2693.5
50°	2791.9	2735.5	2524.4	2221.6	2340.9	2499.0	2564.2	2546.5	2334.3	2195.0	2667.0
52.5°	2736.6	2675.8	2568.6	2305.6	2518.9	2710.1	2800.7	2756.5	2450.4	2272.4	2649.3
55°	2817.3	2770.9	2626.1	2419.4	2652.6	2895.8	2959.9	2926.7	2592.9	2344.3	2749.9
57.5°	2904.6	2894.7	2781.9	2553.1	2810.7	3087.0	3087.0	3046.1	2716.7	2448.1	2899.1
60°	3030.6	3052.7	2896.9	2641.6	2864.8	3075.9	3236.2	3188.7	2841.6	2630.5	3068.2
62.5°	2989.7	3060.5	3045.0	2831.7	2926.7	3130.1	3217.4	3252.8	2996.4	2852.7	3293.7
65°	2858.2	2933.4	3043.9	2956.6	2880.3	2998.6	3042.8	3150.0	3073.7	3061.6	3386.5
67.5°	2701.3	2783.0	2851.6	3040.6	2786.4	2864.8	2826.1	2860.4	2989.7	3290.4	3439.6
70°	2358.6	2437.1	2545.4	2853.8	2537.7	2466.9	2457.0	2440.4	2641.6	3208.6	3198.6
72.5°	1939.7	1976.2	2155.3	2319.9	1877.8	1864.6	1880.0	1861.3	2094.5	2904.6	2739.9
75°	1452.3	1488.8	1590.5	1781.7	1278.8	1202.5	1290.9	1378.3	1599.3	2254.7	1968.5
77.5°	1092.0	1138.4	1202.5	1332.9	938.4	819.0	831.2	914.0	1156.1	1806.0	1103.0
80°	708.5	702.9	826.7	917.4	706.3	728.4	697.4	758.2	837.8	966.0	563.7
82.5°	408.9	414.5	466.4	526.1	491.8	562.6	405.6	677.5	597.9	393.5	210.0
85°	229.9	239.8	287.4	364.7	308.4	206.7	169.1	336.0	375.8	161.4	101.7
87.5°	23.2	19.9	38.7	138.2	84.0	34.3	50.8	80.7	90.6	60.8	29.8
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°	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2
2.5°	1617.0	1617.0	1589.4	1542.9	1524.2	1491.0	1445.7	1460.0	1444.6	1388.2	1373.8
5°	1550.7	1497.6	1440.2	1369.4	1328.5	1244.5	1218.0	1170.5	1178.2	1130.7	1132.9
7.5°	1412.5	1370.5	1273.3	1180.4	1099.7	1026.8	924.0	885.3	847.7	828.9	851.0
10°	1331.8	1253.4	1120.7	999.2	891.9	826.7	758.2	705.2	656.5	620.0	612.3
12.5°	1273.3	1203.6	1043.4	895.3	811.3	758.2	695.2	622.3	574.7	511.7	492.9
15°	1255.6	1170.5	1001.4	854.4	772.6	685.3	613.4	541.6	479.7	413.4	390.2
17.5°	1316.4	1218.0	1000.3	821.2	706.3	612.3	512.8	432.2	369.2	308.4	294.0
20°	1419.2	1268.8	1032.3	801.3	643.3	517.3	404.5	323.8	253.1	213.3	203.4
22.5°	1536.3	1355.0	1035.6	748.3	580.3	422.2	295.1	213.3	173.5	154.7	149.2
25°	1680.0	1493.2	1075.4	705.2	506.2	320.5	210.0	163.6	140.4	129.3	127.1
27.5°	1798.3	1589.4	1118.5	659.8	433.3	237.6	164.7	133.7	121.6	110.5	109.4
30°	1920.9	1699.9	1130.7	632.2	370.3	195.6	141.5	118.3	105.0	99.5	98.4
32.5°	2028.1	1820.4	1169.4	586.9	310.6	172.4	128.2	106.1	97.3	88.4	87.3
35°	2166.3	1890.0	1188.2	562.6	288.5	155.8	117.2	97.3	84.0	78.5	76.3
37.5°	2314.4	1957.4	1200.3	543.8	269.7	145.9	110.5	91.7	79.6	71.8	69.6
40°	2452.6	2052.5	1182.6	520.6	255.3	133.7	106.1	85.1	74.1	66.3	63.0
42.5°	2558.7	2145.3	1177.1	498.5	239.8	129.3	100.6	81.8	69.6	60.8	59.7
45°	2618.4	2208.3	1138.4	480.8	227.7	131.5	98.4	77.4	66.3	58.6	54.2
47.5°	2604.0	2256.9	1148.4	475.3	211.1	122.7	97.3	74.1	60.8	54.2	50.8
50°	2683.6	2355.3	1131.8	457.6	198.9	110.5	106.1	74.1	59.7	51.9	48.6
52.5°	2696.8	2444.8	1167.2	425.5	180.2	101.7	105.0	72.9	57.5	49.7	45.3
55°	2807.4	2548.7	1235.7	407.8	164.7	88.4	96.2	70.7	51.9	45.3	43.1
57.5°	2957.7	2764.3	1279.9	391.3	143.7	77.4	80.7	69.6	47.5	42.0	38.7
60°	3102.5	2850.5	1283.2	361.4	123.8	69.6	63.0	69.6	44.2	37.6	34.3
62.5°	3210.8	2850.5	1261.1	336.0	108.3	61.9	55.3	66.3	39.8	33.2	30.9
65°	3152.2	2774.2	1203.6	315.0	98.4	54.2	47.5	50.8	35.4	28.7	26.5
67.5°	3047.2	2536.6	1076.5	289.6	97.3	47.5	40.9	37.6	30.9	25.4	23.2
70°	2879.2	2216.0	896.4	260.8	95.1	43.1	36.5	32.1	27.6	22.1	19.9
72.5°	2319.9	1830.3	736.1	244.3	92.8	37.6	30.9	27.6	23.2	18.8	16.6
75°	1607.0	1169.4	567.0	208.9	90.6	34.3	28.7	24.3	19.9	15.5	14.4
77.5°	963.8	781.4	365.8	156.9	59.7	27.6	24.3	18.8	16.6	13.3	12.2
80°	450.9	369.2	148.1	60.8	28.7	19.9	16.6	14.4	13.3	11.1	9.9
82.5°	176.8	155.8	71.8	35.4	23.2	15.5	13.3	12.2	11.1	8.8	7.7
85°	95.1	84.0	34.3	24.3	16.6	11.1	11.1	9.9	8.8	7.7	6.6
87.5°	21.0	15.5	14.4	14.4	12.2	8.8	8.8	7.7	6.6	5.5	4.4
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°	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2
2.5°	1366.1	1382.7	1356.2	1372.7	1349.5	1367.2	1369.4	1352.8	1357.3	1379.4	1389.3
5°	1163.8	1152.8	1128.5	1120.7	1121.8	1107.5	1113.0	1120.7	1132.9	1139.5	1159.4
7.5°	838.9	864.3	863.2	882.0	883.1	880.9	865.4	832.3	843.3	834.5	845.5
10°	600.2	611.2	632.2	644.4	666.5	654.3	618.9	605.7	599.0	597.9	609.0
12.5°	479.7	453.2	450.9	455.4	466.4	452.1	434.4	418.9	426.6	442.1	454.3
15°	371.4	349.3	320.5	316.1	318.3	311.7	292.9	273.0	278.5	294.0	302.8
17.5°	285.2	259.7	239.8	226.6	222.2	198.9	171.3	154.7	150.3	149.2	156.9
20°	192.3	187.9	184.6	168.0	168.0	134.8	111.6	99.5	99.5	101.7	102.8
22.5°	143.7	138.2	139.3	135.9	127.1	100.6	88.4	85.1	85.1	87.3	87.3
25°	124.9	117.2	114.9	113.8	105.0	86.2	77.4	74.1	74.1	76.3	76.3
27.5°	106.1	103.9	100.6	96.2	88.4	74.1	68.5	65.2	66.3	67.4	66.3
30°	97.3	91.7	87.3	87.3	78.5	66.3	61.9	59.7	57.5	59.7	60.8
32.5°	86.2	82.9	80.7	77.4	67.4	58.6	54.2	51.9	50.8	50.8	51.9
35°	74.1	74.1	71.8	67.4	58.6	53.1	47.5	45.3	44.2	45.3	45.3
37.5°	66.3	63.0	64.1	59.7	51.9	46.4	40.9	38.7	38.7	37.6	38.7
40°	61.9	56.4	53.1	50.8	46.4	39.8	35.4	33.2	32.1	32.1	32.1
42.5°	55.3	50.8	44.2	43.1	42.0	34.3	28.7	27.6	26.5	25.4	25.4
45°	51.9	45.3	39.8	34.3	34.3	28.7	24.3	22.1	21.0	19.9	21.0
47.5°	47.5	40.9	34.3	28.7	27.6	23.2	18.8	16.6	15.5	15.5	15.5
50°	45.3	36.5	29.8	24.3	21.0	18.8	14.4	12.2	11.1	11.1	11.1
52.5°	42.0	34.3	26.5	21.0	16.6	14.4	11.1	8.8	7.7	7.7	7.7
55°	37.6	30.9	23.2	17.7	14.4	11.1	7.7	5.5	4.4	4.4	4.4
57.5°	35.4	27.6	19.9	15.5	11.1	7.7	4.4	3.3	3.3	2.2	3.3
60°	32.1	24.3	16.6	12.2	8.8	5.5	3.3	1.1	1.1	1.1	1.1
62.5°	27.6	21.0	14.4	9.9	6.6	3.3	1.1	0.0	0.0	0.0	0.0
65°	23.2	16.6	11.1	7.7	4.4	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	19.9	14.4	8.8	5.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.7	12.2	6.6	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14.4	9.9	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.2	7.7	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.9	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.7	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	1.1	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°	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2
2.5°	1403.7	1397.0	1430.2	1484.4	1512.0	1566.2	1579.4	1613.7	1604.8	1617.0
5°	1161.6	1174.9	1223.5	1303.1	1331.8	1410.3	1484.4	1558.4	1605.9	1629.2
7.5°	862.1	906.3	966.0	1038.9	1113.0	1215.8	1341.8	1428.0	1474.4	1524.2
10°	642.2	689.7	758.2	830.0	950.5	1065.5	1191.5	1298.7	1338.5	1384.9
12.5°	505.1	579.2	658.7	736.1	807.9	917.4	1073.2	1229.0	1272.2	1307.5
15°	351.5	442.1	555.9	656.5	757.1	852.2	1013.5	1202.5	1261.1	1320.8
17.5°	194.5	266.4	396.8	538.3	686.4	832.3	1033.4	1251.2	1339.6	1381.6
20°	112.7	141.5	234.3	402.3	597.9	789.2	1043.4	1342.9	1460.0	1481.0
22.5°	92.8	102.8	132.6	252.0	489.6	761.5	1094.2	1471.1	1590.5	1640.2
25°	79.6	87.3	102.8	151.4	370.3	702.9	1126.3	1631.4	1741.9	1796.0
27.5°	70.7	78.5	90.6	111.6	252.0	622.3	1179.3	1776.1	1886.7	1960.7
30°	61.9	68.5	80.7	95.1	174.6	531.6	1224.6	1882.3	2038.1	2061.3
32.5°	55.3	60.8	69.6	81.8	129.3	403.4	1261.1	1991.7	2123.2	2174.0
35°	47.5	54.2	59.7	69.6	98.4	303.9	1239.0	2076.8	2248.1	2308.9
37.5°	42.0	46.4	51.9	58.6	82.9	237.6	1193.7	2178.5	2355.3	2411.7
40°	35.4	38.7	45.3	51.9	75.2	183.5	1141.7	2301.1	2505.6	2605.1
42.5°	29.8	33.2	37.6	48.6	61.9	135.9	1036.7	2396.2	2627.2	2711.2
45°	23.2	27.6	34.3	48.6	49.7	100.6	928.4	2466.9	2695.7	2737.7
47.5°	17.7	22.1	33.2	42.0	39.8	69.6	800.2	2547.6	2766.5	2805.1
50°	13.3	17.7	37.6	36.5	33.2	53.1	719.5	2604.0	2770.9	2791.9
52.5°	8.8	13.3	30.9	27.6	27.6	46.4	697.4	2601.8	2781.9	2736.6
55°	6.6	9.9	17.7	19.9	24.3	40.9	677.5	2684.7	2785.3	2817.3
57.5°	4.4	7.7	12.2	15.5	21.0	35.4	636.6	2784.1	2888.0	2904.6
60°	2.2	5.5	8.8	12.2	17.7	30.9	579.2	2857.1	3012.9	3030.6
62.5°	1.1	3.3	6.6	9.9	14.4	24.3	519.5	2741.0	2958.8	2989.7
65°	0.0	2.2	4.4	6.6	8.8	17.7	422.2	2474.7	2744.4	2858.2
67.5°	0.0	0.0	2.2	4.4	5.5	13.3	318.3	2251.4	2546.5	2701.3
70°	0.0	0.0	1.1	1.1	3.3	9.9	203.4	1864.6	2273.5	2358.6
72.5°	0.0	0.0	0.0	0.0	1.1	6.6	118.3	1384.9	1781.7	1939.7
75°	0.0	0.0	0.0	0.0	0.0	5.5	59.7	890.8	1240.1	1452.3
77.5°	0.0	0.0	0.0	0.0	0.0	4.4	32.1	574.7	914.0	1092.0
80°	0.0	0.0	0.0	0.0	0.0	1.1	18.8	333.8	584.7	708.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.7	163.6	349.3	408.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	87.3	174.6	229.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	12.2	23.2
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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