

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: P675803

Luminaire Tested: **CCW-SA-1F-722-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675803
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-722-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SLL distribution lens
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

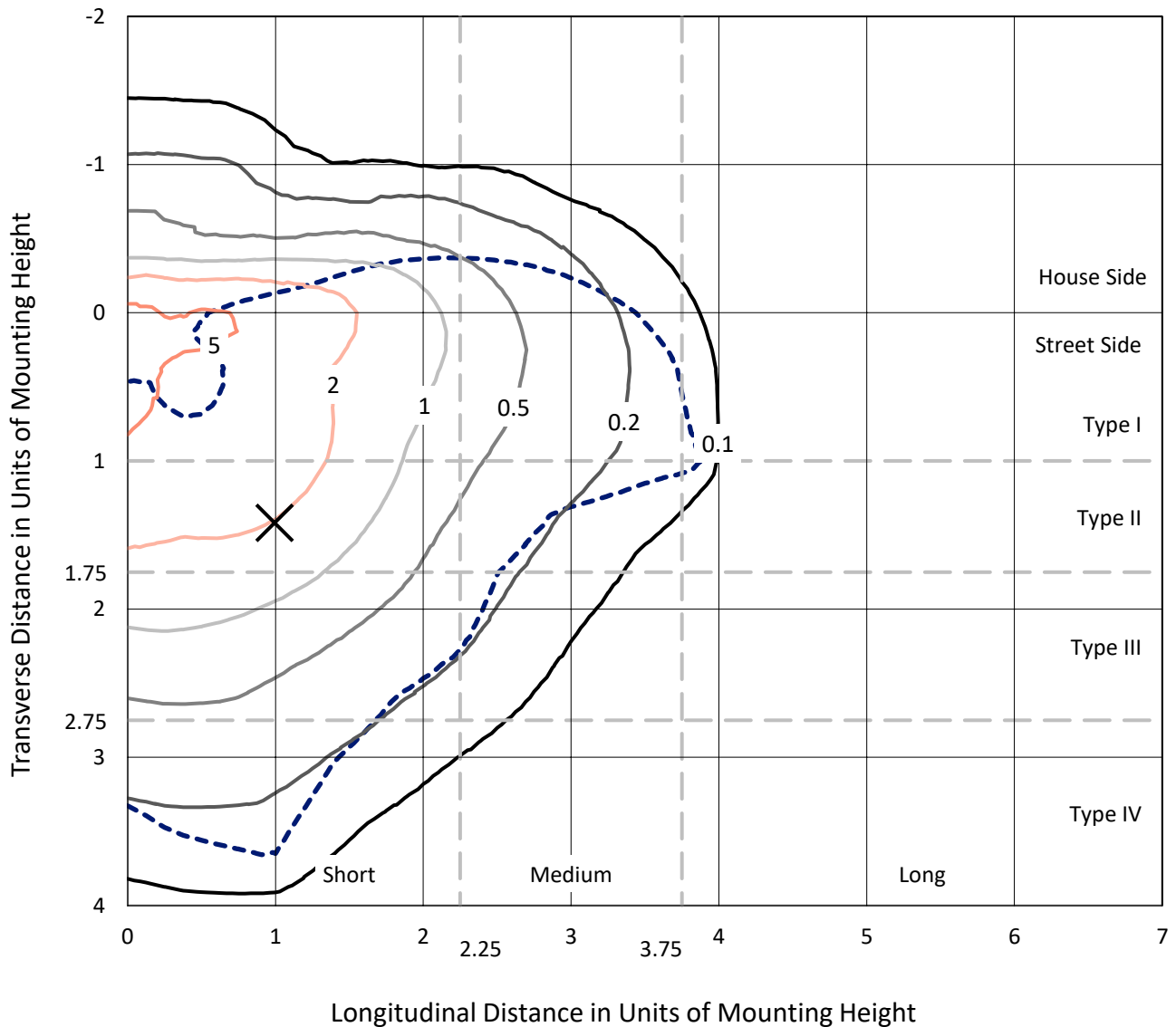
Lumens per Lamp: N/A
Luminaire Lumens: 4582.4 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

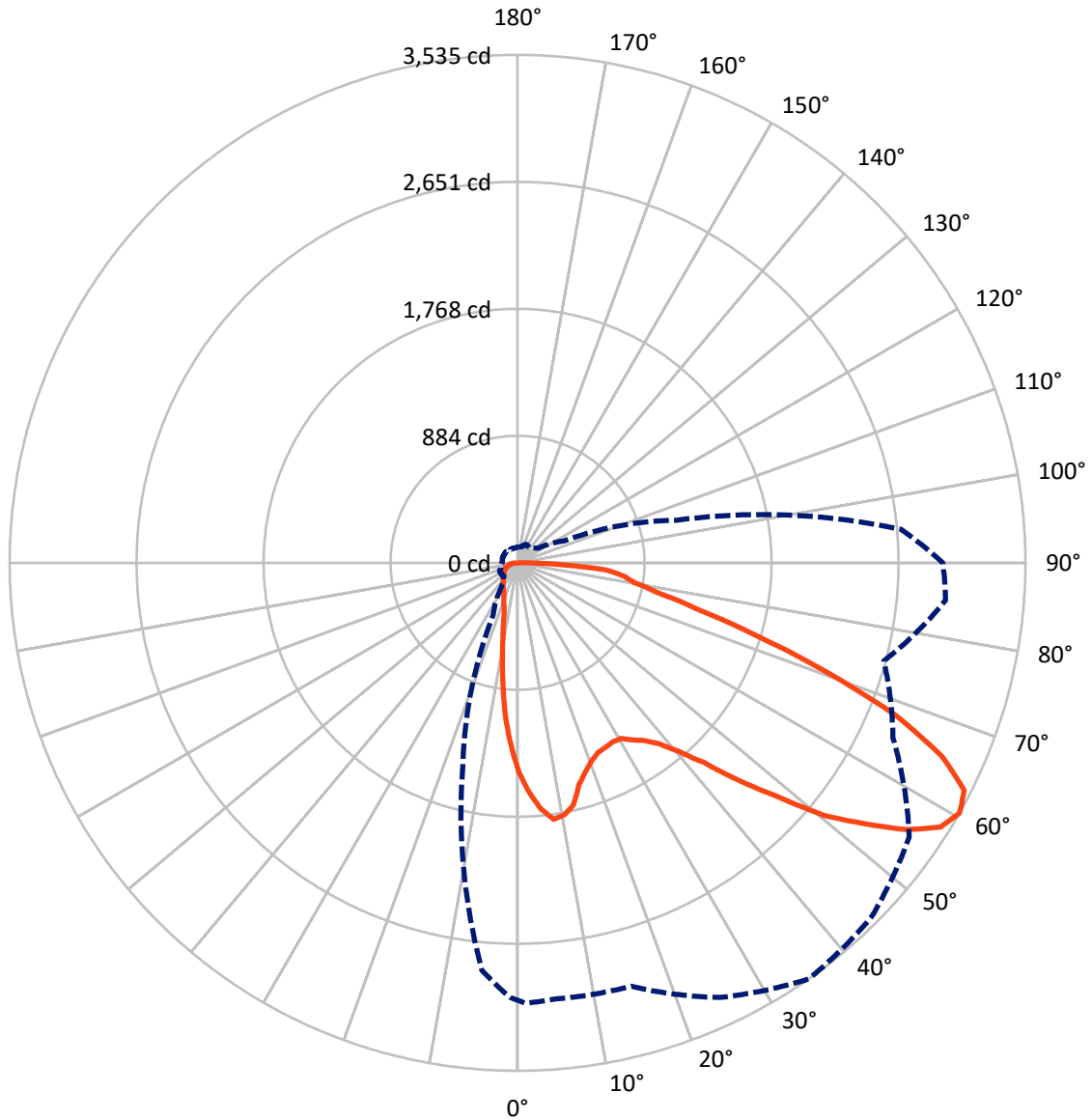
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.4 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
House Side	Lumens	872.1	0.0	872.1
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3710.3	0.0	3710.3
	% Fixture	81.0	0.0	81.0
Total	Lumens	4582.4	0.0	4582.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	2.5
10°-20°	240.1	5.2
20°-30°	351.2	7.7
30°-40°	494.9	10.8
40°-50°	680.1	14.8
50°-60°	926.9	20.2
60°-70°	1014.5	22.1
70°-80°	585.7	12.8
80°-90°	175.4	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°	4582.4	100.0
0°-180°	4582.4	100.0

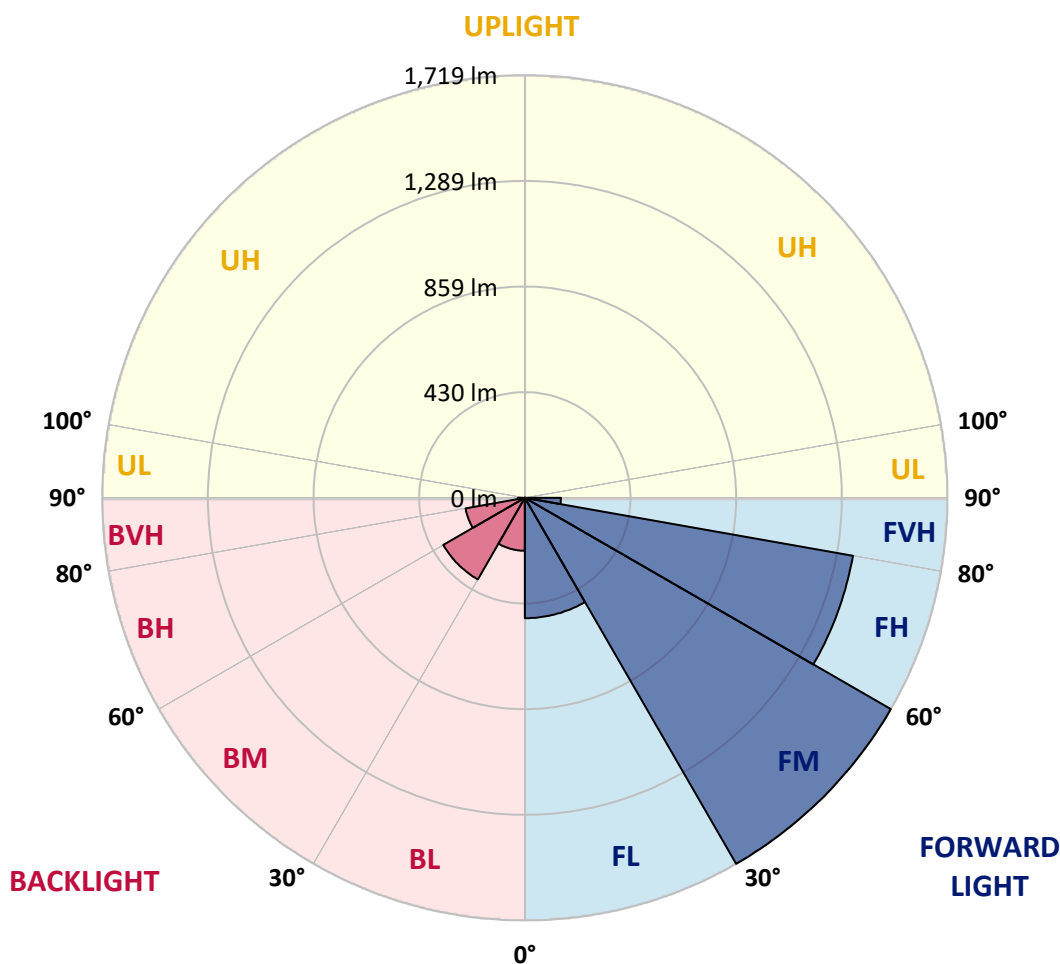


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	489.5	10.7			
FM (30°-60°)	1718.8	37.5			
FH (60°-80°)	1355.2	29.6			G1/1800
FVH (80°-90°)	146.8	3.2			G2/225
BL (0°-30°)	215.5	4.7	B1/500		
BM (30°-60°)	383.1	8.4	B1/1000		
BH (60°-80°)	244.9	5.3	B1/500		G1/500
BVH (80°-90°)	28.6	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°	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6
2.5°	1567.3	1561.2	1567.3	1589.6	1595.7	1605.9	1605.9	1591.7	1565.2	1553.0	1532.7
5°	1601.8	1591.7	1642.5	1689.2	1725.8	1721.8	1687.2	1658.7	1605.9	1526.6	1451.4
7.5°	1532.7	1542.9	1579.5	1701.4	1786.8	1803.1	1748.2	1691.3	1577.4	1467.7	1366.0
10°	1402.6	1416.8	1496.1	1622.1	1756.3	1782.7	1748.2	1679.1	1542.9	1406.7	1288.8
12.5°	1339.6	1372.1	1418.9	1571.3	1666.9	1729.9	1713.6	1668.9	1516.4	1355.9	1242.0
15°	1339.6	1347.7	1416.8	1544.9	1599.8	1601.8	1607.9	1616.1	1524.6	1378.2	1225.8
17.5°	1382.3	1404.6	1463.6	1542.9	1553.0	1528.6	1528.6	1563.2	1540.8	1441.2	1284.7
20°	1486.0	1477.8	1555.1	1587.6	1532.7	1471.7	1465.6	1524.6	1559.1	1508.3	1392.4
22.5°	1589.6	1626.2	1689.2	1616.1	1514.4	1433.1	1425.0	1498.2	1614.0	1624.2	1516.4
25°	1746.1	1782.7	1815.3	1725.8	1512.4	1422.9	1429.0	1486.0	1681.1	1788.8	1723.8
27.5°	1914.9	1937.2	1984.0	1845.8	1561.2	1410.7	1416.8	1502.2	1744.1	1896.6	1886.4
30°	2010.4	2034.8	2024.6	1868.1	1593.7	1418.9	1402.6	1524.6	1709.6	1896.6	1992.1
32.5°	2103.9	2089.7	2083.6	1904.7	1634.3	1469.7	1429.0	1571.3	1729.9	1927.1	2128.3
35°	2217.8	2197.4	2181.2	1975.9	1701.4	1518.5	1500.2	1632.3	1774.6	1990.1	2238.1
37.5°	2343.8	2343.8	2264.5	2028.7	1780.7	1597.8	1577.4	1719.7	1845.8	2028.7	2388.5
40°	2492.2	2498.3	2358.0	2099.9	1870.1	1723.8	1717.7	1833.6	1914.9	2085.6	2532.8
42.5°	2601.9	2606.0	2439.3	2126.3	1973.8	1898.6	1925.0	2016.5	1994.1	2136.4	2543.0
45°	2677.2	2656.8	2496.2	2201.5	2087.7	2160.8	2169.0	2195.4	2097.8	2166.9	2583.6
47.5°	2713.7	2709.7	2520.6	2288.9	2327.5	2427.1	2473.9	2437.3	2193.4	2134.4	2583.6
50°	2750.3	2715.8	2543.0	2408.8	2561.3	2762.5	2752.4	2685.3	2325.5	2175.1	2545.0
52.5°	2774.7	2744.2	2587.7	2516.6	2784.9	3012.6	3053.2	2929.2	2480.0	2250.3	2563.3
55°	2862.1	2837.7	2721.9	2662.9	3043.1	3276.8	3282.9	3110.1	2642.6	2374.3	2683.3
57.5°	2967.8	2982.1	2906.9	2870.3	3240.2	3469.9	3447.6	3244.3	2780.8	2524.7	2821.5
60°	3043.1	3065.4	3047.1	3051.2	3337.8	3535.0	3484.2	3327.6	2882.5	2638.5	2990.2
62.5°	3002.4	3047.1	3122.3	3106.1	3341.9	3488.2	3417.1	3217.9	2894.7	2786.9	3118.3
65°	2890.6	2894.7	3041.0	3130.5	3158.9	3246.3	3152.8	2988.2	2768.6	2878.4	3100.0
67.5°	2604.0	2636.5	2768.6	2943.4	2823.5	2843.8	2835.7	2597.9	2577.6	2815.4	2959.7
70°	2299.1	2321.4	2465.7	2671.1	2384.4	2288.9	2307.2	2130.3	2213.7	2620.2	2677.2
72.5°	1900.6	1914.9	2079.5	2260.4	1912.8	1742.1	1784.8	1640.4	1758.3	2293.0	2258.4
75°	1435.1	1461.6	1589.6	1803.1	1408.7	1298.9	1341.6	1282.7	1392.4	1888.4	1752.2
77.5°	1020.5	1000.1	1158.7	1410.7	1059.1	994.0	998.1	1008.3	1126.2	1591.7	1258.3
80°	695.2	701.3	843.6	1034.7	831.4	821.2	811.1	892.4	945.2	1260.3	914.7
82.5°	412.7	412.7	569.2	735.9	656.6	739.9	693.2	766.4	739.9	926.9	599.7
85°	193.1	193.1	292.7	530.6	508.2	609.8	518.4	579.3	546.8	646.4	270.4
87.5°	32.5	28.5	59.0	260.2	209.4	237.8	93.5	309.0	343.5	451.3	67.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6
2.5°	1510.3	1496.1	1467.7	1431.1	1400.6	1362.0	1349.8	1323.3	1286.7	1282.7	1266.4
5°	1422.9	1374.2	1313.2	1238.0	1187.1	1134.3	1089.6	1063.1	1032.6	1028.6	1020.5
7.5°	1327.4	1266.4	1164.8	1075.3	987.9	904.6	863.9	813.1	778.6	752.1	739.9
10°	1238.0	1181.0	1055.0	933.0	855.8	800.9	752.1	699.3	656.6	624.1	611.9
12.5°	1179.0	1111.9	975.7	859.9	802.9	739.9	685.0	628.1	573.2	530.6	508.2
15°	1152.6	1089.6	951.3	823.3	739.9	652.5	589.5	532.6	465.5	435.0	424.8
17.5°	1215.6	1122.1	943.2	780.6	662.7	563.1	485.8	424.8	376.1	345.6	333.4
20°	1296.9	1181.0	957.4	729.8	589.5	477.7	392.3	327.3	294.8	272.4	270.4
22.5°	1400.6	1268.4	979.8	693.2	508.2	384.2	306.9	268.3	246.0	243.9	239.9
25°	1585.6	1427.0	1016.4	644.4	443.1	317.1	262.2	239.9	229.7	223.6	227.7
27.5°	1744.1	1530.7	1042.8	613.9	416.7	298.8	254.1	229.7	219.5	217.5	219.5
30°	1837.6	1626.2	1034.7	557.0	363.9	284.6	270.4	262.2	241.9	225.6	225.6
32.5°	1923.0	1687.2	1032.6	506.2	311.0	237.8	225.6	219.5	231.7	239.9	233.8
35°	2040.9	1782.7	1026.5	477.7	288.7	219.5	199.2	182.9	174.8	170.8	176.9
37.5°	2166.9	1847.8	1010.3	473.6	276.5	209.4	193.1	176.9	168.7	164.7	162.6
40°	2305.2	1916.9	992.0	453.3	270.4	203.3	187.0	172.8	162.6	156.5	154.5
42.5°	2394.6	1971.8	973.7	443.1	258.2	199.2	180.9	168.7	158.6	150.4	150.4
45°	2445.4	2036.8	955.4	433.0	243.9	201.2	180.9	164.7	152.5	148.4	144.3
47.5°	2467.8	2085.6	949.3	416.7	231.7	193.1	176.9	160.6	148.4	140.3	138.2
50°	2526.7	2189.3	971.7	404.5	217.5	185.0	187.0	158.6	146.4	136.2	134.2
52.5°	2561.3	2272.6	1020.5	386.2	207.3	174.8	182.9	154.5	140.3	130.1	130.1
55°	2687.3	2410.9	1073.3	372.0	195.1	160.6	168.7	146.4	130.1	124.0	124.0
57.5°	2847.9	2557.2	1118.0	365.9	187.0	150.4	150.4	142.3	124.0	115.9	113.8
60°	2959.7	2677.2	1144.4	361.8	178.9	140.3	134.2	142.3	117.9	109.8	107.7
62.5°	2971.9	2608.0	1118.0	359.8	176.9	130.1	122.0	136.2	111.8	103.7	99.6
65°	2894.7	2467.8	1044.8	351.7	174.8	119.9	113.8	117.9	103.7	97.6	93.5
67.5°	2740.2	2240.1	939.1	347.6	172.8	111.8	103.7	101.6	95.5	89.4	85.4
70°	2380.4	1943.3	815.1	329.3	168.7	105.7	93.5	91.5	85.4	81.3	79.3
72.5°	1998.2	1589.6	672.8	304.9	160.6	95.5	85.4	81.3	79.3	73.2	71.1
75°	1530.7	1223.7	538.7	270.4	140.3	85.4	75.2	71.1	69.1	65.0	63.0
77.5°	1075.3	910.7	398.4	219.5	117.9	77.2	67.1	63.0	61.0	54.9	54.9
80°	729.8	638.3	270.4	152.5	91.5	63.0	59.0	54.9	50.8	46.8	46.8
82.5°	453.3	447.2	195.1	99.6	67.1	50.8	46.8	46.8	40.7	36.6	36.6
85°	207.3	274.4	136.2	69.1	50.8	38.6	38.6	36.6	32.5	26.4	26.4
87.5°	65.0	91.5	71.1	30.5	28.5	22.4	22.4	20.3	20.3	16.3	16.3
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°	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6
2.5°	1282.7	1280.6	1280.6	1272.5	1292.8	1292.8	1305.0	1294.9	1301.0	1303.0	1319.3
5°	1018.4	1034.7	1046.9	1071.3	1085.5	1091.6	1091.6	1107.9	1101.8	1114.0	1138.4
7.5°	746.0	766.4	802.9	833.4	857.8	866.0	863.9	868.0	874.1	859.9	863.9
10°	603.7	589.5	601.7	630.2	652.5	678.9	658.6	656.6	662.7	656.6	668.8
12.5°	504.1	487.9	477.7	477.7	494.0	506.2	500.1	510.2	532.6	538.7	552.9
15°	408.6	394.4	386.2	376.1	392.3	396.4	402.5	416.7	433.0	441.1	457.4
17.5°	327.3	327.3	327.3	319.1	325.2	331.3	333.4	351.7	353.7	361.8	367.9
20°	268.3	274.4	284.6	288.7	294.8	294.8	290.7	300.8	292.7	298.8	302.9
22.5°	241.9	250.0	254.1	256.1	264.3	266.3	256.1	258.2	260.2	254.1	256.1
25°	227.7	231.7	227.7	229.7	231.7	227.7	229.7	233.8	231.7	235.8	233.8
27.5°	221.6	217.5	215.5	213.4	213.4	209.4	211.4	211.4	215.5	217.5	217.5
30°	221.6	215.5	207.3	201.2	201.2	195.1	199.2	203.3	205.3	209.4	209.4
32.5°	227.7	215.5	201.2	195.1	189.0	185.0	189.0	195.1	203.3	205.3	207.3
35°	180.9	187.0	185.0	176.9	174.8	174.8	172.8	172.8	166.7	166.7	164.7
37.5°	162.6	160.6	164.7	166.7	168.7	162.6	162.6	154.5	152.5	154.5	154.5
40°	152.5	152.5	152.5	158.6	160.6	156.5	150.4	146.4	146.4	146.4	148.4
42.5°	148.4	144.3	142.3	146.4	152.5	148.4	142.3	140.3	140.3	142.3	142.3
45°	142.3	140.3	138.2	136.2	144.3	138.2	136.2	134.2	134.2	134.2	136.2
47.5°	136.2	134.2	130.1	130.1	132.1	130.1	128.1	128.1	128.1	132.1	132.1
50°	132.1	130.1	126.0	126.0	126.0	126.0	124.0	124.0	124.0	126.0	128.1
52.5°	126.0	124.0	122.0	119.9	119.9	119.9	119.9	119.9	119.9	122.0	124.0
55°	119.9	117.9	115.9	115.9	117.9	117.9	115.9	117.9	115.9	117.9	119.9
57.5°	113.8	111.8	109.8	111.8	113.8	111.8	111.8	111.8	111.8	111.8	113.8
60°	105.7	105.7	105.7	105.7	109.8	109.8	109.8	109.8	105.7	107.7	109.8
62.5°	101.6	99.6	99.6	101.6	103.7	103.7	105.7	103.7	101.6	103.7	103.7
65°	93.5	93.5	93.5	95.5	95.5	97.6	97.6	97.6	95.5	97.6	97.6
67.5°	87.4	87.4	87.4	87.4	91.5	91.5	91.5	91.5	89.4	89.4	91.5
70°	77.2	79.3	77.2	81.3	85.4	83.3	85.4	85.4	83.3	81.3	85.4
72.5°	71.1	71.1	71.1	71.1	77.2	77.2	77.2	79.3	77.2	75.2	77.2
75°	63.0	63.0	63.0	65.0	69.1	69.1	69.1	69.1	69.1	67.1	67.1
77.5°	54.9	56.9	54.9	56.9	61.0	59.0	61.0	63.0	61.0	59.0	59.0
80°	46.8	46.8	46.8	48.8	50.8	50.8	50.8	52.9	50.8	48.8	48.8
82.5°	36.6	36.6	38.6	38.6	40.7	40.7	40.7	42.7	40.7	38.6	38.6
85°	28.5	28.5	28.5	30.5	30.5	32.5	32.5	34.6	34.6	32.5	32.5
87.5°	18.3	16.3	18.3	18.3	20.3	20.3	18.3	16.3	18.3	16.3	14.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6
2.5°	1335.5	1372.1	1398.5	1416.8	1443.3	1494.1	1514.4	1551.0	1561.2	1567.3
5°	1148.5	1187.1	1244.1	1284.7	1331.5	1427.0	1500.2	1555.1	1579.5	1601.8
7.5°	900.5	951.3	1010.3	1063.1	1140.4	1258.3	1353.8	1467.7	1510.3	1532.7
10°	703.3	750.1	815.1	880.2	987.9	1087.5	1223.7	1327.4	1386.3	1402.6
12.5°	593.6	648.5	725.7	805.0	872.1	985.9	1124.1	1274.5	1329.4	1339.6
15°	504.1	579.3	658.6	739.9	817.2	916.8	1065.2	1248.1	1329.4	1339.6
17.5°	416.7	483.8	577.3	664.7	754.2	890.4	1075.3	1270.5	1351.8	1382.3
20°	331.3	396.4	469.6	579.3	701.3	845.6	1097.7	1345.7	1453.4	1486.0
22.5°	274.4	302.9	374.0	479.7	624.1	815.1	1120.1	1463.6	1577.4	1589.6
25°	239.9	260.2	304.9	404.5	563.1	794.8	1172.9	1599.8	1746.1	1746.1
27.5°	223.6	231.7	262.2	351.7	520.4	776.5	1225.8	1750.2	1886.4	1914.9
30°	219.5	239.9	256.1	313.0	473.6	725.7	1274.5	1868.1	2008.4	2010.4
32.5°	215.5	211.4	223.6	272.4	416.7	672.8	1315.2	1988.0	2097.8	2103.9
35°	168.7	176.9	197.2	239.9	374.0	634.2	1335.5	2053.1	2211.7	2217.8
37.5°	158.6	168.7	185.0	221.6	345.6	601.7	1341.6	2179.1	2331.6	2343.8
40°	154.5	162.6	174.8	205.3	323.2	561.0	1353.8	2309.2	2508.4	2492.2
42.5°	146.4	156.5	168.7	197.2	304.9	530.6	1355.9	2380.4	2601.9	2601.9
45°	144.3	150.4	164.7	197.2	284.6	504.1	1323.3	2451.5	2709.7	2677.2
47.5°	136.2	148.4	160.6	191.1	260.2	477.7	1284.7	2488.1	2723.9	2713.7
50°	134.2	146.4	166.7	180.9	246.0	465.5	1276.6	2579.6	2752.4	2750.3
52.5°	130.1	142.3	172.8	172.8	227.7	449.2	1315.2	2620.2	2758.5	2774.7
55°	124.0	142.3	160.6	158.6	211.4	428.9	1357.9	2725.9	2866.2	2862.1
57.5°	119.9	138.2	152.5	144.3	193.1	414.7	1420.9	2827.6	2996.3	2967.8
60°	113.8	138.2	136.2	134.2	178.9	402.5	1473.8	2847.9	3024.8	3043.1
62.5°	109.8	144.3	119.9	124.0	166.7	396.4	1451.4	2695.5	2986.1	3002.4
65°	105.7	124.0	109.8	113.8	162.6	384.2	1364.0	2512.5	2819.5	2890.6
67.5°	97.6	101.6	101.6	105.7	158.6	355.7	1185.1	2183.2	2565.4	2604.0
70°	89.4	91.5	91.5	97.6	154.5	323.2	977.8	1888.4	2225.9	2299.1
72.5°	81.3	81.3	81.3	89.4	142.3	296.8	805.0	1451.4	1849.8	1900.6
75°	71.1	71.1	71.1	79.3	128.1	270.4	634.2	1079.4	1362.0	1435.1
77.5°	63.0	63.0	61.0	71.1	111.8	219.5	457.4	762.3	959.5	1020.5
80°	52.9	50.8	50.8	56.9	87.4	158.6	294.8	538.7	668.8	695.2
82.5°	42.7	40.7	38.6	42.7	63.0	99.6	182.9	376.1	428.9	412.7
85°	40.7	42.7	34.6	32.5	44.7	65.0	115.9	231.7	193.1	193.1
87.5°	16.3	14.2	14.2	12.2	22.4	24.4	50.8	42.7	32.5	32.5
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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