

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: P675913

Luminaire Tested: **CCW-SA-1F-840-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675913
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-840-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SLL distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

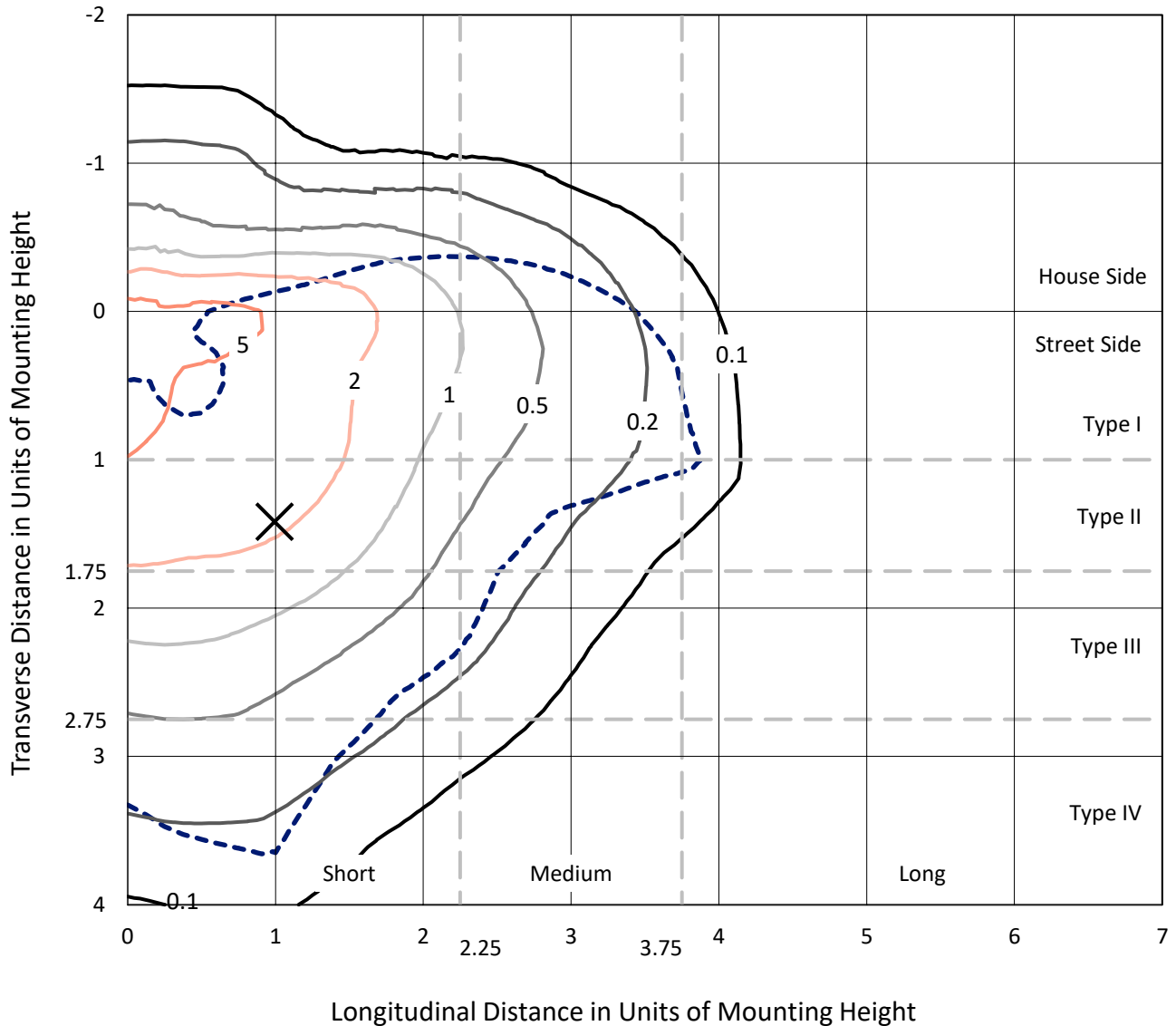
Lumens per Lamp: N/A
Luminaire Lumens: 5304 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

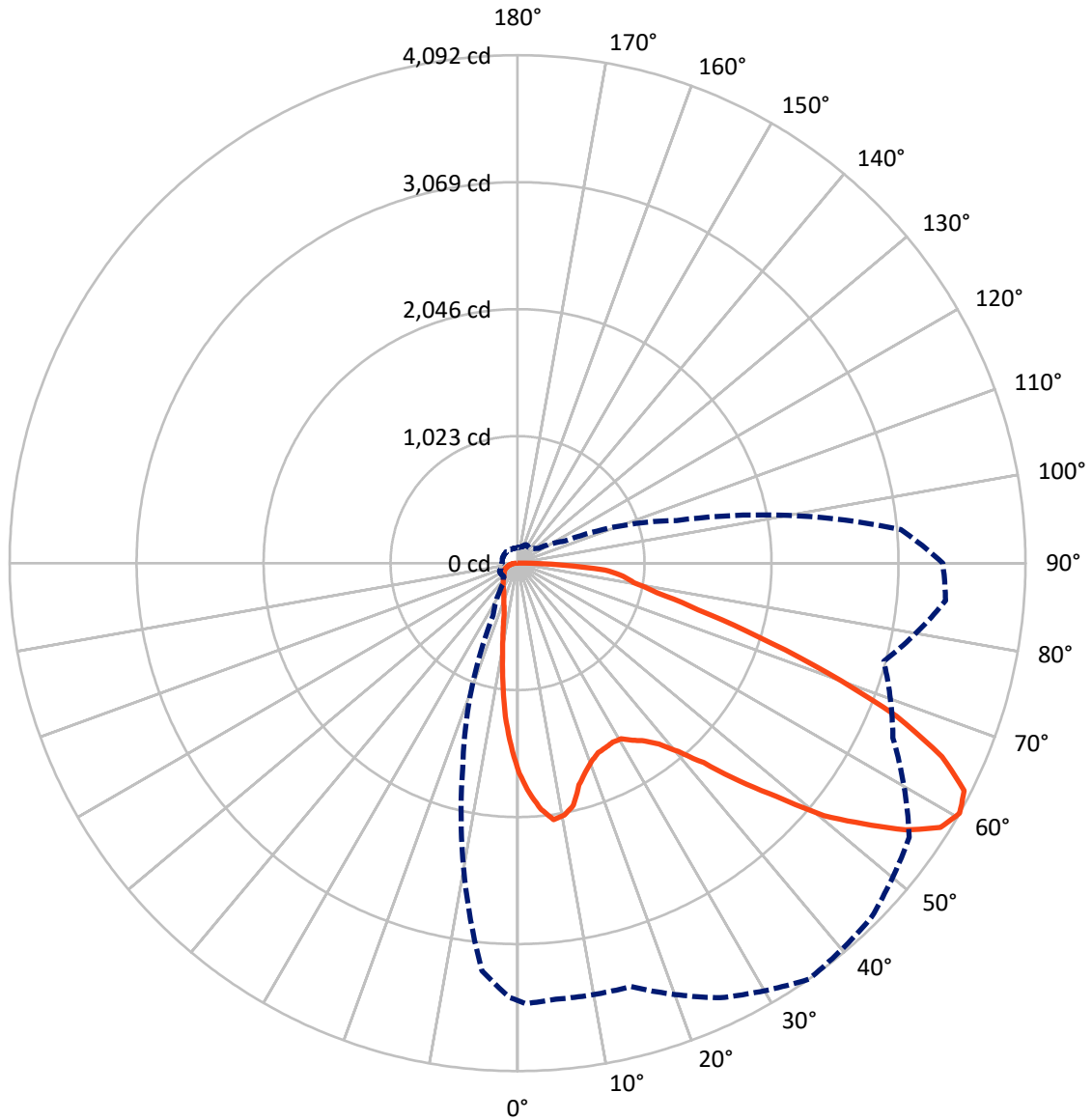
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.6 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	1009.4	0.0	1009.4
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	4294.6	0.0	4294.6
	% Fixture	81.0	0.0	81.0
Total	Lumens	5304.0	0.0	5304.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	2.5
10°-20°	277.9	5.2
20°-30°	406.5	7.7
30°-40°	572.8	10.8
40°-50°	787.2	14.8
50°-60°	1072.9	20.2
60°-70°	1174.2	22.1
70°-80°	677.9	12.8
80°-90°	203.0	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°	5304.0	100.0
0°-180°	5304.0	100.0



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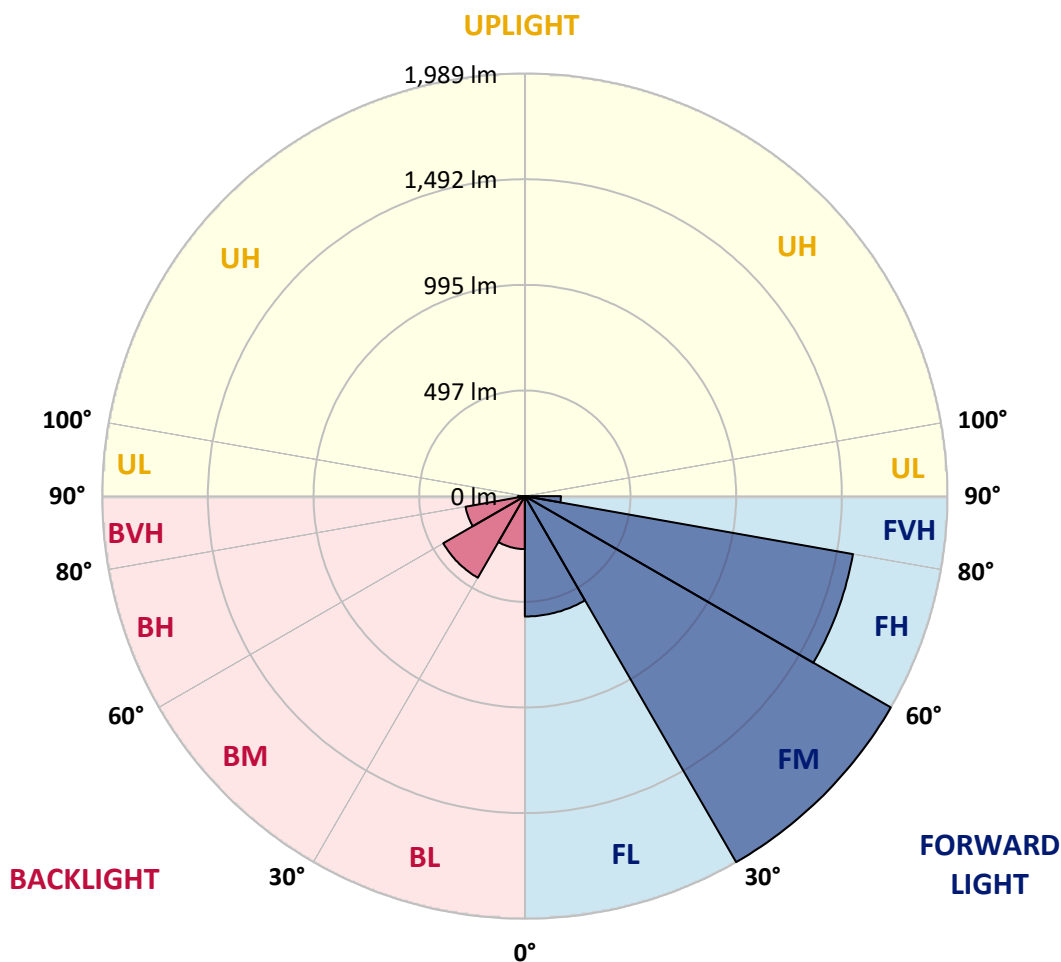
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.6	10.7			
FM (30°-60°)	1989.5	37.5			
FH (60°-80°)	1568.6	29.6			G1/1800
FVH (80°-90°)	169.9	3.2			G2/225
BL (0°-30°)	249.4	4.7	B1/500		
BM (30°-60°)	443.4	8.4	B1/1000		
BH (60°-80°)	283.5	5.3	B1/500		G1/500
BVH (80°-90°)	33.1	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°	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1
2.5°	1814.1	1807.0	1814.1	1840.0	1847.0	1858.8	1858.8	1842.3	1811.7	1797.6	1774.1
5°	1854.1	1842.3	1901.1	1955.3	1997.6	1992.9	1952.9	1920.0	1858.8	1767.0	1680.0
7.5°	1774.1	1785.8	1828.2	1969.4	2068.2	2087.0	2023.5	1957.6	1825.8	1698.8	1581.1
10°	1623.5	1640.0	1731.7	1877.6	2032.9	2063.5	2023.5	1943.5	1785.8	1628.2	1491.7
12.5°	1550.6	1588.2	1642.3	1818.8	1929.4	2002.3	1983.5	1931.7	1755.3	1569.4	1437.6
15°	1550.6	1560.0	1640.0	1788.2	1851.7	1854.1	1861.1	1870.5	1764.7	1595.3	1418.8
17.5°	1600.0	1625.8	1694.1	1785.8	1797.6	1769.4	1769.4	1809.4	1783.5	1668.2	1487.0
20°	1720.0	1710.6	1800.0	1837.6	1774.1	1703.5	1696.4	1764.7	1804.7	1745.8	1611.7
22.5°	1840.0	1882.3	1955.3	1870.5	1752.9	1658.8	1649.4	1734.1	1868.2	1880.0	1755.3
25°	2021.1	2063.5	2101.1	1997.6	1750.6	1647.0	1654.1	1720.0	1945.8	2070.5	1995.3
27.5°	2216.4	2242.3	2296.4	2136.4	1807.0	1632.9	1640.0	1738.8	2018.8	2195.2	2183.5
30°	2327.0	2355.2	2343.5	2162.3	1844.7	1642.3	1623.5	1764.7	1978.8	2195.2	2305.8
32.5°	2435.2	2418.8	2411.7	2204.7	1891.7	1701.1	1654.1	1818.8	2002.3	2230.5	2463.5
35°	2567.0	2543.5	2524.7	2287.0	1969.4	1757.6	1736.4	1889.4	2054.1	2303.5	2590.5
37.5°	2712.9	2712.9	2621.1	2348.2	2061.1	1849.4	1825.8	1990.5	2136.4	2348.2	2764.6
40°	2884.6	2891.7	2729.4	2430.5	2164.7	1995.3	1988.2	2122.3	2216.4	2414.1	2931.7
42.5°	3011.7	3016.4	2823.5	2461.1	2284.7	2197.6	2228.2	2334.1	2308.2	2472.9	2943.5
45°	3098.8	3075.2	2889.3	2548.2	2416.4	2501.1	2510.5	2541.1	2428.2	2508.2	2990.5
47.5°	3141.1	3136.4	2917.6	2649.4	2694.1	2809.4	2863.5	2821.1	2538.8	2470.5	2990.5
50°	3183.5	3143.5	2943.5	2788.2	2964.6	3197.6	3185.8	3108.2	2691.7	2517.6	2945.8
52.5°	3211.7	3176.4	2995.2	2912.9	3223.5	3487.0	3534.0	3390.5	2870.5	2604.6	2967.0
55°	3312.9	3284.6	3150.5	3082.3	3522.3	3792.9	3799.9	3599.9	3058.8	2748.2	3105.8
57.5°	3435.2	3451.7	3364.6	3322.3	3750.5	4016.4	3990.5	3755.2	3218.8	2922.3	3265.8
60°	3522.3	3548.2	3527.0	3531.7	3863.4	4091.7	4032.9	3851.7	3336.4	3054.1	3461.1
62.5°	3475.2	3527.0	3614.0	3595.2	3868.2	4037.6	3955.2	3724.6	3350.5	3225.8	3609.3
65°	3345.8	3350.5	3519.9	3623.5	3656.4	3757.6	3649.3	3458.7	3204.6	3331.7	3588.2
67.5°	3014.1	3051.7	3204.6	3407.0	3268.2	3291.7	3282.3	3007.0	2983.5	3258.8	3425.8
70°	2661.1	2687.0	2854.1	3091.7	2759.9	2649.4	2670.5	2465.8	2562.3	3032.9	3098.8
72.5°	2200.0	2216.4	2407.0	2616.4	2214.1	2016.4	2065.8	1898.8	2035.2	2654.1	2614.1
75°	1661.1	1691.7	1840.0	2087.0	1630.6	1503.5	1552.9	1484.7	1611.7	2185.8	2028.2
77.5°	1181.2	1157.6	1341.1	1632.9	1225.9	1150.6	1155.3	1167.0	1303.5	1842.3	1456.4
80°	804.7	811.7	976.4	1197.6	962.3	950.6	938.8	1032.9	1094.1	1458.8	1058.8
82.5°	477.6	477.6	658.8	851.7	760.0	856.5	802.3	887.0	856.5	1072.9	694.1
85°	223.5	223.5	338.8	614.1	588.2	705.9	600.0	670.6	632.9	748.2	312.9
87.5°	37.6	32.9	68.2	301.2	242.3	275.3	108.2	357.6	397.6	522.3	77.6
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°	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1
2.5°	1748.2	1731.7	1698.8	1656.4	1621.1	1576.4	1562.3	1531.7	1489.4	1484.7	1465.9
5°	1647.0	1590.6	1520.0	1432.9	1374.1	1312.9	1261.1	1230.6	1195.3	1190.6	1181.2
7.5°	1536.4	1465.9	1348.2	1244.7	1143.5	1047.0	1000.0	941.2	901.2	870.6	856.5
10°	1432.9	1367.0	1221.1	1080.0	990.6	927.0	870.6	809.4	760.0	722.3	708.2
12.5°	1364.7	1287.0	1129.4	995.3	929.4	856.5	792.9	727.0	663.5	614.1	588.2
15°	1334.1	1261.1	1101.2	952.9	856.5	755.3	682.3	616.5	538.8	503.5	491.8
17.5°	1407.0	1298.8	1091.7	903.5	767.0	651.8	562.3	491.8	435.3	400.0	385.9
20°	1501.1	1367.0	1108.2	844.7	682.3	552.9	454.1	378.8	341.2	315.3	312.9
22.5°	1621.1	1468.2	1134.1	802.3	588.2	444.7	355.3	310.6	284.7	282.3	277.6
25°	1835.3	1651.7	1176.4	745.9	512.9	367.1	303.5	277.6	265.9	258.8	263.5
27.5°	2018.8	1771.7	1207.0	710.6	482.3	345.9	294.1	265.9	254.1	251.8	254.1
30°	2127.0	1882.3	1197.6	644.7	421.2	329.4	312.9	303.5	280.0	261.2	261.2
32.5°	2225.8	1952.9	1195.3	585.9	360.0	275.3	261.2	254.1	268.2	277.6	270.6
35°	2362.3	2063.5	1188.2	552.9	334.1	254.1	230.6	211.8	202.3	197.6	204.7
37.5°	2508.2	2138.8	1169.4	548.2	320.0	242.3	223.5	204.7	195.3	190.6	188.2
40°	2668.2	2218.8	1148.2	524.7	312.9	235.3	216.5	200.0	188.2	181.2	178.8
42.5°	2771.7	2282.3	1127.0	512.9	298.8	230.6	209.4	195.3	183.5	174.1	174.1
45°	2830.5	2357.6	1105.9	501.2	282.3	232.9	209.4	190.6	176.5	171.8	167.1
47.5°	2856.4	2414.1	1098.8	482.3	268.2	223.5	204.7	185.9	171.8	162.3	160.0
50°	2924.6	2534.1	1124.7	468.2	251.8	214.1	216.5	183.5	169.4	157.6	155.3
52.5°	2964.6	2630.5	1181.2	447.0	240.0	202.3	211.8	178.8	162.3	150.6	150.6
55°	3110.5	2790.5	1242.3	430.6	225.9	185.9	195.3	169.4	150.6	143.5	143.5
57.5°	3296.4	2959.9	1294.1	423.5	216.5	174.1	174.1	164.7	143.5	134.1	131.8
60°	3425.8	3098.8	1324.7	418.8	207.1	162.3	155.3	164.7	136.5	127.1	124.7
62.5°	3439.9	3018.8	1294.1	416.5	204.7	150.6	141.2	157.6	129.4	120.0	115.3
65°	3350.5	2856.4	1209.4	407.0	202.3	138.8	131.8	136.5	120.0	112.9	108.2
67.5°	3171.7	2592.9	1087.0	402.3	200.0	129.4	120.0	117.6	110.6	103.5	98.8
70°	2755.2	2249.4	943.5	381.2	195.3	122.4	108.2	105.9	98.8	94.1	91.8
72.5°	2312.9	1840.0	778.8	352.9	185.9	110.6	98.8	94.1	91.8	84.7	82.4
75°	1771.7	1416.4	623.5	312.9	162.3	98.8	87.1	82.4	80.0	75.3	72.9
77.5°	1244.7	1054.1	461.2	254.1	136.5	89.4	77.6	72.9	70.6	63.5	63.5
80°	844.7	738.8	312.9	176.5	105.9	72.9	68.2	63.5	58.8	54.1	54.1
82.5°	524.7	517.6	225.9	115.3	77.6	58.8	54.1	54.1	47.1	42.4	42.4
85°	240.0	317.6	157.6	80.0	58.8	44.7	44.7	42.4	37.6	30.6	30.6
87.5°	75.3	105.9	82.4	35.3	32.9	25.9	25.9	23.5	23.5	18.8	18.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1
2.5°	1484.7	1482.3	1482.3	1472.9	1496.4	1496.4	1510.6	1498.8	1505.8	1508.2	1527.0
5°	1178.8	1197.6	1211.7	1240.0	1256.4	1263.5	1263.5	1282.3	1275.3	1289.4	1317.6
7.5°	863.5	887.0	929.4	964.7	992.9	1002.3	1000.0	1004.7	1011.7	995.3	1000.0
10°	698.8	682.3	696.5	729.4	755.3	785.9	762.3	760.0	767.0	760.0	774.1
12.5°	583.5	564.7	552.9	552.9	571.8	585.9	578.8	590.6	616.5	623.5	640.0
15°	472.9	456.5	447.0	435.3	454.1	458.8	465.9	482.3	501.2	510.6	529.4
17.5°	378.8	378.8	378.8	369.4	376.5	383.5	385.9	407.0	409.4	418.8	425.9
20°	310.6	317.6	329.4	334.1	341.2	341.2	336.5	348.2	338.8	345.9	350.6
22.5°	280.0	289.4	294.1	296.5	305.9	308.2	296.5	298.8	301.2	294.1	296.5
25°	263.5	268.2	263.5	265.9	268.2	263.5	265.9	270.6	268.2	272.9	270.6
27.5°	256.5	251.8	249.4	247.1	247.1	242.3	244.7	244.7	249.4	251.8	251.8
30°	256.5	249.4	240.0	232.9	232.9	225.9	230.6	235.3	237.6	242.3	242.3
32.5°	263.5	249.4	232.9	225.9	218.8	214.1	218.8	225.9	235.3	237.6	240.0
35°	209.4	216.5	214.1	204.7	202.3	202.3	200.0	200.0	192.9	192.9	190.6
37.5°	188.2	185.9	190.6	192.9	195.3	188.2	188.2	178.8	176.5	178.8	178.8
40°	176.5	176.5	176.5	183.5	185.9	181.2	174.1	169.4	169.4	169.4	171.8
42.5°	171.8	167.1	164.7	169.4	176.5	171.8	164.7	162.3	162.3	164.7	164.7
45°	164.7	162.3	160.0	157.6	167.1	160.0	157.6	155.3	155.3	155.3	157.6
47.5°	157.6	155.3	150.6	150.6	152.9	150.6	148.2	148.2	148.2	152.9	152.9
50°	152.9	150.6	145.9	145.9	145.9	145.9	143.5	143.5	143.5	145.9	148.2
52.5°	145.9	143.5	141.2	138.8	138.8	138.8	138.8	138.8	138.8	141.2	143.5
55°	138.8	136.5	134.1	134.1	136.5	136.5	134.1	136.5	134.1	136.5	138.8
57.5°	131.8	129.4	127.1	129.4	131.8	129.4	129.4	129.4	129.4	129.4	131.8
60°	122.4	122.4	122.4	122.4	127.1	127.1	127.1	127.1	122.4	124.7	127.1
62.5°	117.6	115.3	115.3	117.6	120.0	120.0	122.4	120.0	117.6	120.0	120.0
65°	108.2	108.2	108.2	110.6	110.6	112.9	112.9	112.9	110.6	112.9	112.9
67.5°	101.2	101.2	101.2	101.2	105.9	105.9	105.9	105.9	103.5	103.5	105.9
70°	89.4	91.8	89.4	94.1	98.8	96.5	98.8	98.8	96.5	94.1	98.8
72.5°	82.4	82.4	82.4	82.4	89.4	89.4	89.4	91.8	89.4	87.1	89.4
75°	72.9	72.9	72.9	75.3	80.0	80.0	80.0	80.0	80.0	77.6	77.6
77.5°	63.5	65.9	63.5	65.9	70.6	68.2	70.6	72.9	70.6	68.2	68.2
80°	54.1	54.1	54.1	56.5	58.8	58.8	58.8	61.2	58.8	56.5	56.5
82.5°	42.4	42.4	44.7	44.7	47.1	47.1	47.1	49.4	47.1	44.7	44.7
85°	32.9	32.9	32.9	35.3	35.3	37.6	37.6	40.0	40.0	37.6	37.6
87.5°	21.2	18.8	21.2	21.2	23.5	23.5	21.2	18.8	21.2	18.8	16.5
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°	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1
2.5°	1545.8	1588.2	1618.8	1640.0	1670.6	1729.4	1752.9	1795.3	1807.0	1814.1
5°	1329.4	1374.1	1440.0	1487.0	1541.1	1651.7	1736.4	1800.0	1828.2	1854.1
7.5°	1042.3	1101.2	1169.4	1230.6	1320.0	1456.4	1567.0	1698.8	1748.2	1774.1
10°	814.1	868.2	943.5	1018.8	1143.5	1258.8	1416.4	1536.4	1604.7	1623.5
12.5°	687.0	750.6	840.0	931.7	1009.4	1141.2	1301.1	1475.3	1538.8	1550.6
15°	583.5	670.6	762.3	856.5	945.9	1061.2	1232.9	1444.7	1538.8	1550.6
17.5°	482.3	560.0	668.2	769.4	872.9	1030.6	1244.7	1470.6	1564.7	1600.0
20°	383.5	458.8	543.5	670.6	811.7	978.8	1270.6	1557.6	1682.3	1720.0
22.5°	317.6	350.6	432.9	555.3	722.3	943.5	1296.4	1694.1	1825.8	1840.0
25°	277.6	301.2	352.9	468.2	651.8	920.0	1357.6	1851.7	2021.1	2021.1
27.5°	258.8	268.2	303.5	407.0	602.3	898.8	1418.8	2025.8	2183.5	2216.4
30°	254.1	277.6	296.5	362.3	548.2	840.0	1475.3	2162.3	2324.7	2327.0
32.5°	249.4	244.7	258.8	315.3	482.3	778.8	1522.3	2301.1	2428.2	2435.2
35°	195.3	204.7	228.2	277.6	432.9	734.1	1545.8	2376.4	2559.9	2567.0
37.5°	183.5	195.3	214.1	256.5	400.0	696.5	1552.9	2522.3	2698.8	2712.9
40°	178.8	188.2	202.3	237.6	374.1	649.4	1567.0	2672.9	2903.5	2884.6
42.5°	169.4	181.2	195.3	228.2	352.9	614.1	1569.4	2755.2	3011.7	3011.7
45°	167.1	174.1	190.6	228.2	329.4	583.5	1531.7	2837.6	3136.4	3098.8
47.5°	157.6	171.8	185.9	221.2	301.2	552.9	1487.0	2879.9	3152.9	3141.1
50°	155.3	169.4	192.9	209.4	284.7	538.8	1477.6	2985.8	3185.8	3183.5
52.5°	150.6	164.7	200.0	200.0	263.5	520.0	1522.3	3032.9	3192.9	3211.7
55°	143.5	164.7	185.9	183.5	244.7	496.5	1571.7	3155.2	3317.6	3312.9
57.5°	138.8	160.0	176.5	167.1	223.5	480.0	1644.7	3272.9	3468.2	3435.2
60°	131.8	160.0	157.6	155.3	207.1	465.9	1705.8	3296.4	3501.1	3522.3
62.5°	127.1	167.1	138.8	143.5	192.9	458.8	1680.0	3119.9	3456.4	3475.2
65°	122.4	143.5	127.1	131.8	188.2	444.7	1578.8	2908.2	3263.5	3345.8
67.5°	112.9	117.6	117.6	122.4	183.5	411.8	1371.7	2527.0	2969.3	3014.1
70°	103.5	105.9	105.9	112.9	178.8	374.1	1131.7	2185.8	2576.4	2661.1
72.5°	94.1	94.1	94.1	103.5	164.7	343.5	931.7	1680.0	2141.1	2200.0
75°	82.4	82.4	82.4	91.8	148.2	312.9	734.1	1249.4	1576.4	1661.1
77.5°	72.9	72.9	70.6	82.4	129.4	254.1	529.4	882.3	1110.6	1181.2
80°	61.2	58.8	58.8	65.9	101.2	183.5	341.2	623.5	774.1	804.7
82.5°	49.4	47.1	44.7	49.4	72.9	115.3	211.8	435.3	496.5	477.6
85°	47.1	49.4	40.0	37.6	51.8	75.3	134.1	268.2	223.5	223.5
87.5°	18.8	16.5	16.5	14.1	25.9	28.2	58.8	49.4	37.6	37.6
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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