

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: P675838

Luminaire Tested: **CCW-SA-2B-735-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675838
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-735-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SLL distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

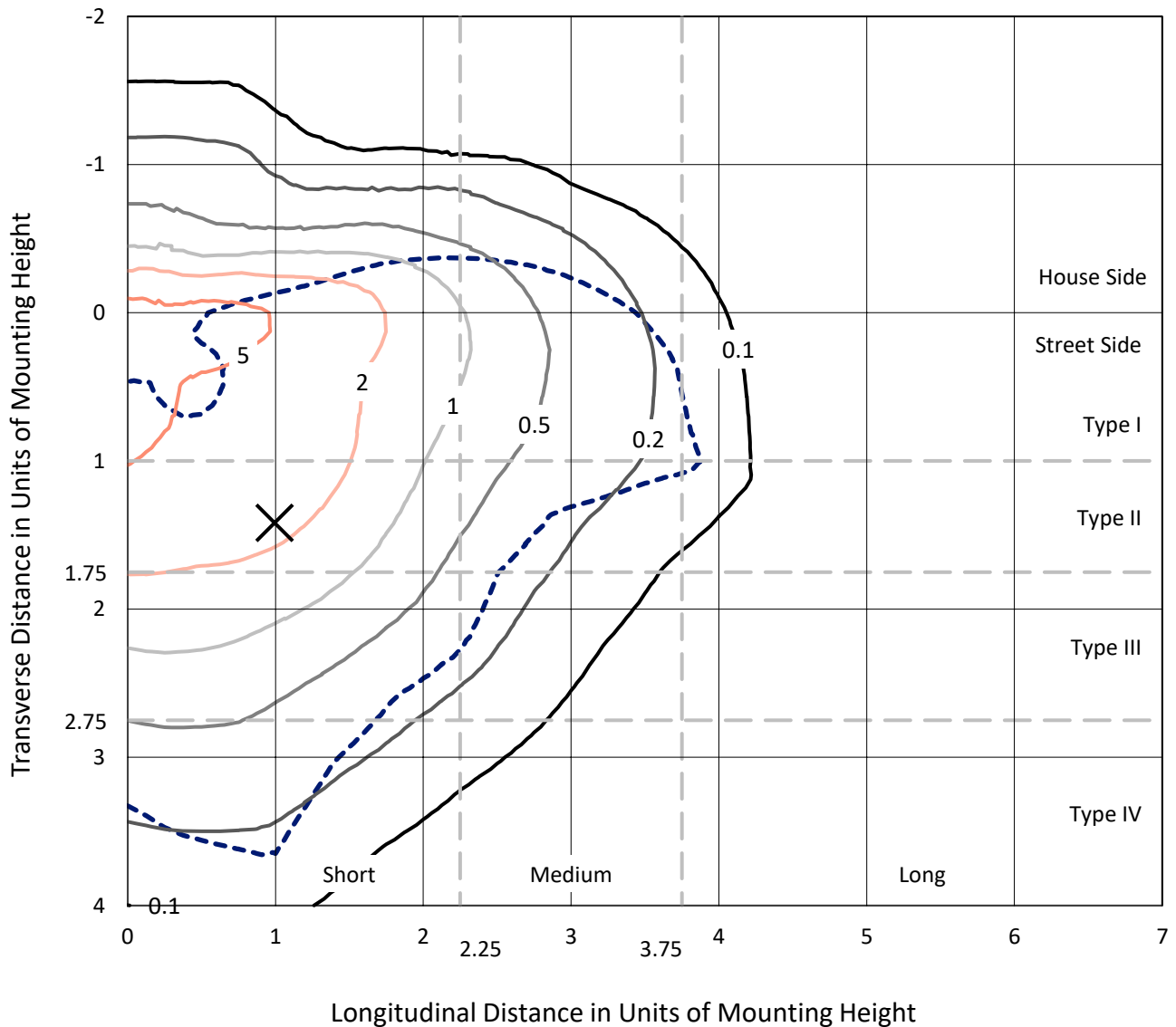
Lumens per Lamp: N/A
Luminaire Lumens: 5651.7 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

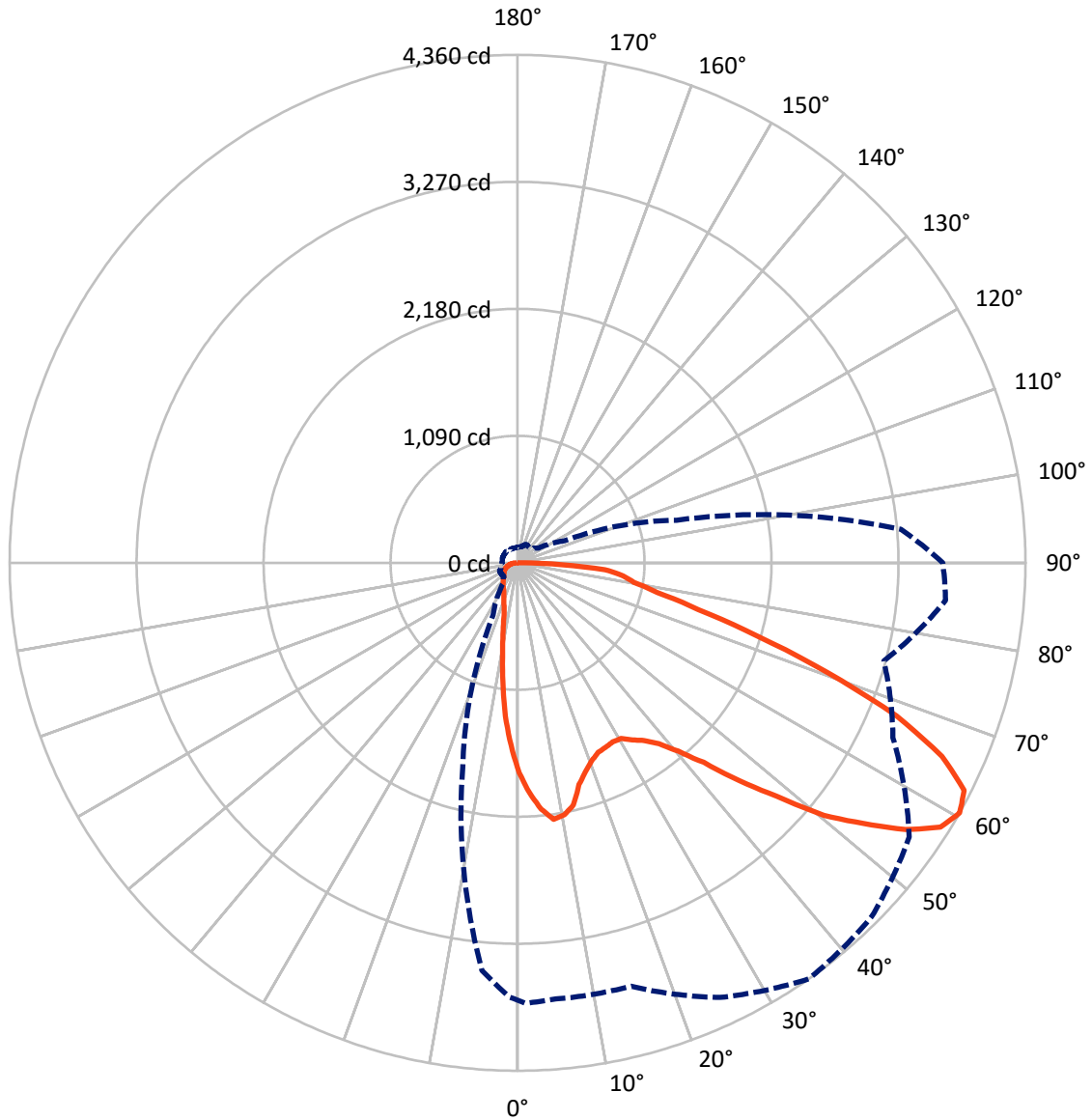
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.1 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
House Side	Lumens	1075.6	0.0	1075.6
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	4576.1	0.0	4576.1
	% Fixture	81.0	0.0	81.0
Total	Lumens	5651.7	0.0	5651.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	2.5
10°-20°	296.1	5.2
20°-30°	433.2	7.7
30°-40°	610.4	10.8
40°-50°	838.8	14.8
50°-60°	1143.2	20.2
60°-70°	1251.2	22.1
70°-80°	722.4	12.8
80°-90°	216.3	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°	5651.7	100.0
0°-180°	5651.7	100.0

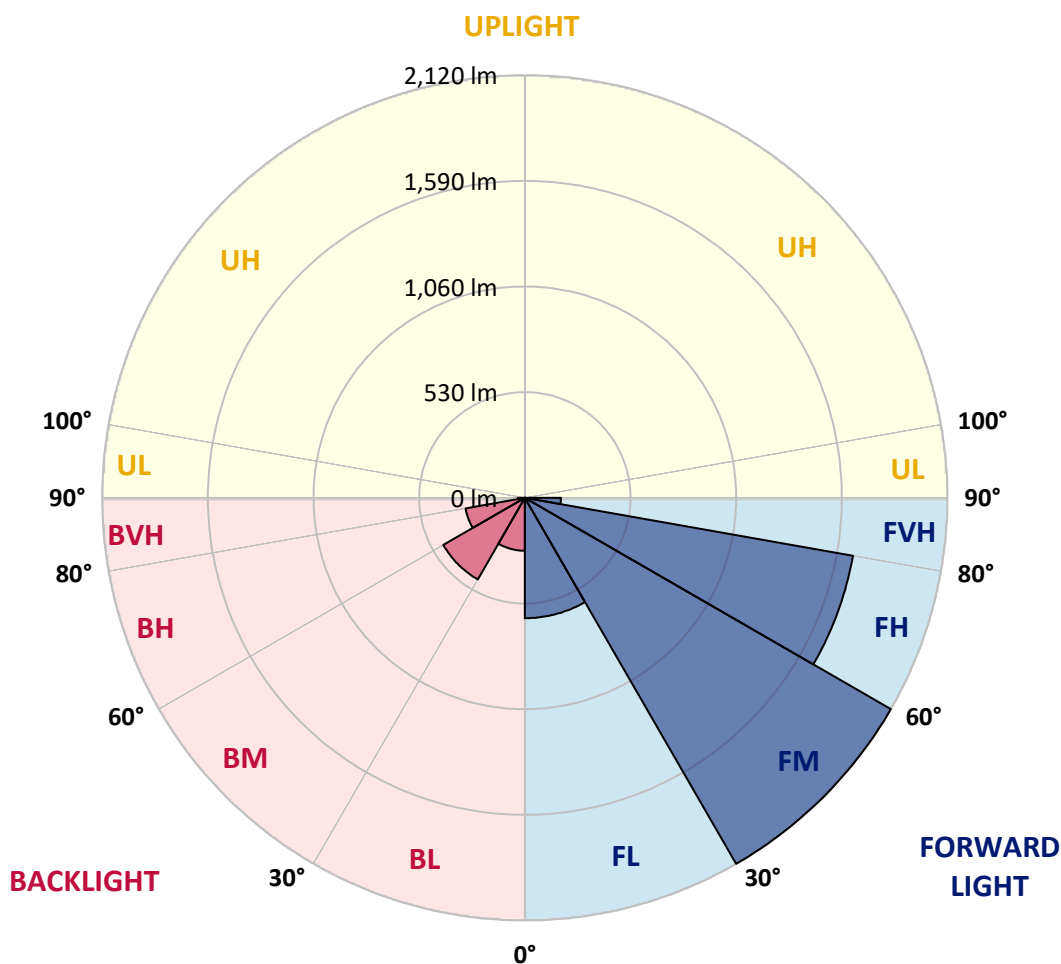


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	603.8	10.7			
FM (30°-60°)	2119.9	37.5			
FH (60°-80°)	1671.4	29.6			G1/1800
FVH (80°-90°)	181.1	3.2			G2/225
BL (0°-30°)	265.7	4.7	B1/500		
BM (30°-60°)	472.5	8.4	B1/1000		
BH (60°-80°)	302.1	5.3	B1/500		G1/500
BVH (80°-90°)	35.2	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°	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1
2.5°	1933.0	1925.5	1933.0	1960.6	1968.1	1980.6	1980.6	1963.1	1930.5	1915.5	1890.4
5°	1975.6	1963.1	2025.8	2083.4	2128.6	2123.5	2080.9	2045.8	1980.6	1882.9	1790.1
7.5°	1890.4	1902.9	1948.0	2098.5	2203.8	2223.8	2156.1	2085.9	1945.5	1810.2	1684.8
10°	1729.9	1747.5	1845.3	2000.7	2166.2	2198.8	2156.1	2070.9	1902.9	1734.9	1589.5
12.5°	1652.2	1692.3	1750.0	1938.0	2055.9	2133.6	2113.5	2058.4	1870.3	1672.3	1531.9
15°	1652.2	1662.2	1747.5	1905.4	1973.1	1975.6	1983.1	1993.2	1880.4	1699.8	1511.8
17.5°	1704.9	1732.4	1805.1	1902.9	1915.5	1885.4	1885.4	1928.0	1900.4	1777.6	1584.5
20°	1832.7	1822.7	1918.0	1958.1	1890.4	1815.2	1807.6	1880.4	1923.0	1860.3	1717.4
22.5°	1960.6	2005.7	2083.4	1993.2	1867.8	1767.5	1757.5	1847.8	1990.7	2003.2	1870.3
25°	2153.6	2198.8	2238.9	2128.6	1865.3	1755.0	1762.5	1832.7	2073.4	2206.3	2126.1
27.5°	2361.7	2389.3	2447.0	2276.5	1925.5	1740.0	1747.5	1852.8	2151.1	2339.2	2326.6
30°	2479.6	2509.6	2497.1	2304.1	1965.6	1750.0	1729.9	1880.4	2108.5	2339.2	2457.0
32.5°	2594.9	2577.3	2569.8	2349.2	2015.7	1812.7	1762.5	1938.0	2133.6	2376.8	2625.0
35°	2735.3	2710.2	2690.2	2436.9	2098.5	1872.8	1850.3	2013.2	2188.7	2454.5	2760.4
37.5°	2890.7	2890.7	2793.0	2502.1	2196.3	1970.6	1945.5	2121.0	2276.5	2502.1	2945.9
40°	3073.7	3081.3	2908.3	2589.9	2306.6	2126.1	2118.5	2261.4	2361.7	2572.3	3123.9
42.5°	3209.1	3214.1	3008.6	2622.5	2434.4	2341.7	2374.3	2487.1	2459.5	2635.0	3136.4
45°	3301.9	3276.8	3078.8	2715.2	2574.8	2665.1	2675.1	2707.7	2587.4	2672.6	3186.6
47.5°	3347.0	3342.0	3108.8	2823.0	2870.7	2993.5	3051.2	3006.1	2705.2	2632.5	3186.6
50°	3392.2	3349.5	3136.4	2971.0	3159.0	3407.2	3394.7	3311.9	2868.2	2682.6	3138.9
52.5°	3422.2	3384.6	3191.6	3103.8	3434.8	3715.6	3765.7	3612.8	3058.7	2775.4	3161.5
55°	3530.0	3500.0	3357.1	3284.3	3753.2	4041.5	4049.0	3835.9	3259.3	2928.3	3309.4
57.5°	3660.4	3678.0	3585.2	3540.1	3996.4	4279.7	4252.1	4001.4	3429.8	3113.9	3479.9
60°	3753.2	3780.8	3758.2	3763.2	4116.7	4359.9	4297.2	4104.2	3555.1	3254.3	3688.0
62.5°	3703.0	3758.2	3851.0	3830.9	4121.7	4302.2	4214.5	3968.8	3570.2	3437.3	3845.9
65°	3565.1	3570.2	3750.7	3861.0	3896.1	4003.9	3888.6	3685.5	3414.7	3550.1	3823.4
67.5°	3211.6	3251.8	3414.7	3630.3	3482.4	3507.5	3497.5	3204.1	3179.0	3472.4	3650.4
70°	2835.6	2863.2	3041.2	3294.4	2940.9	2823.0	2845.6	2627.5	2730.3	3231.7	3301.9
72.5°	2344.2	2361.7	2564.8	2787.9	2359.2	2148.6	2201.3	2023.3	2168.7	2828.1	2785.4
75°	1770.0	1802.6	1960.6	2223.8	1737.4	1602.1	1654.7	1582.0	1717.4	2329.1	2161.2
77.5°	1258.6	1233.5	1429.1	1740.0	1306.2	1226.0	1231.0	1243.5	1389.0	1963.1	1551.9
80°	857.4	865.0	1040.5	1276.1	1025.4	1012.9	1000.3	1100.6	1165.8	1554.4	1128.2
82.5°	508.9	508.9	702.0	907.6	809.8	912.6	854.9	945.2	912.6	1143.3	739.6
85°	238.2	238.2	361.0	654.4	626.8	752.1	639.3	714.5	674.4	797.3	333.4
87.5°	40.1	35.1	72.7	320.9	258.2	293.3	115.3	381.1	423.7	556.6	82.7
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°	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1
2.5°	1862.8	1845.3	1810.2	1765.0	1727.4	1679.8	1664.7	1632.1	1587.0	1582.0	1561.9
5°	1755.0	1694.8	1619.6	1526.8	1464.2	1399.0	1343.8	1311.2	1273.6	1268.6	1258.6
7.5°	1637.2	1561.9	1436.6	1326.3	1218.5	1115.7	1065.5	1002.9	960.2	927.6	912.6
10°	1526.8	1456.6	1301.2	1150.8	1055.5	987.8	927.6	862.5	809.8	769.7	754.6
12.5°	1454.1	1371.4	1203.4	1060.5	990.3	912.6	844.9	774.7	707.0	654.4	626.8
15°	1421.5	1343.8	1173.3	1015.4	912.6	804.8	727.1	656.9	574.1	536.5	524.0
17.5°	1499.3	1383.9	1163.3	962.7	817.3	694.5	599.2	524.0	463.8	426.2	411.2
20°	1599.6	1456.6	1180.9	900.1	727.1	589.2	483.9	403.6	363.5	336.0	333.4
22.5°	1727.4	1564.5	1208.4	854.9	626.8	473.8	378.6	330.9	303.4	300.9	295.8
25°	1955.6	1760.0	1253.6	794.8	546.6	391.1	323.4	295.8	283.3	275.8	280.8
27.5°	2151.1	1887.9	1286.2	757.2	514.0	368.5	313.4	283.3	270.8	268.3	270.8
30°	2266.5	2005.7	1276.1	687.0	448.8	351.0	333.4	323.4	298.3	278.3	278.3
32.5°	2371.8	2080.9	1273.6	624.3	383.6	293.3	278.3	270.8	285.8	295.8	288.3
35°	2517.2	2198.8	1266.1	589.2	356.0	270.8	245.7	225.6	215.6	210.6	218.1
37.5°	2672.6	2279.0	1246.0	584.2	341.0	258.2	238.2	218.1	208.1	203.1	200.6
40°	2843.1	2364.2	1223.5	559.1	333.4	250.7	230.7	213.1	200.6	193.0	190.5
42.5°	2953.4	2431.9	1200.9	546.6	318.4	245.7	223.1	208.1	195.6	185.5	185.5
45°	3016.1	2512.2	1178.4	534.0	300.9	248.2	223.1	203.1	188.0	183.0	178.0
47.5°	3043.7	2572.3	1170.8	514.0	285.8	238.2	218.1	198.1	183.0	173.0	170.5
50°	3116.4	2700.2	1198.4	498.9	268.3	228.1	230.7	195.6	180.5	168.0	165.5
52.5°	3159.0	2803.0	1258.6	476.4	255.7	215.6	225.6	190.5	173.0	160.5	160.5
55°	3314.4	2973.5	1323.8	458.8	240.7	198.1	208.1	180.5	160.5	152.9	152.9
57.5°	3512.5	3154.0	1378.9	451.3	230.7	185.5	185.5	175.5	152.9	142.9	140.4
60°	3650.4	3301.9	1411.5	446.3	220.6	173.0	165.5	175.5	145.4	135.4	132.9
62.5°	3665.4	3216.7	1378.9	443.8	218.1	160.5	150.4	168.0	137.9	127.9	122.8
65°	3570.2	3043.7	1288.7	433.7	215.6	147.9	140.4	145.4	127.9	120.3	115.3
67.5°	3379.6	2762.9	1158.3	428.7	213.1	137.9	127.9	125.4	117.8	110.3	105.3
70°	2935.9	2396.8	1005.4	406.2	208.1	130.4	115.3	112.8	105.3	100.3	97.8
72.5°	2464.5	1960.6	829.9	376.1	198.1	117.8	105.3	100.3	97.8	90.3	87.7
75°	1887.9	1509.3	664.4	333.4	173.0	105.3	92.8	87.7	85.2	80.2	77.7
77.5°	1326.3	1123.2	491.4	270.8	145.4	95.3	82.7	77.7	75.2	67.7	67.7
80°	900.1	787.2	333.4	188.0	112.8	77.7	72.7	67.7	62.7	57.7	57.7
82.5°	559.1	551.6	240.7	122.8	82.7	62.7	57.7	57.7	50.1	45.1	45.1
85°	255.7	338.5	168.0	85.2	62.7	47.6	47.6	45.1	40.1	32.6	32.6
87.5°	80.2	112.8	87.7	37.6	35.1	27.6	27.6	25.1	25.1	20.1	20.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1
2.5°	1582.0	1579.5	1579.5	1569.5	1594.5	1594.5	1609.6	1597.0	1604.6	1607.1	1627.1
5°	1256.1	1276.1	1291.2	1321.3	1338.8	1346.3	1346.3	1366.4	1358.9	1373.9	1404.0
7.5°	920.1	945.2	990.3	1027.9	1058.0	1068.0	1065.5	1070.5	1078.1	1060.5	1065.5
10°	744.6	727.1	742.1	777.2	804.8	837.4	812.3	809.8	817.3	809.8	824.8
12.5°	621.8	601.7	589.2	589.2	609.2	624.3	616.8	629.3	656.9	664.4	681.9
15°	503.9	486.4	476.4	463.8	483.9	488.9	496.4	514.0	534.0	544.0	564.1
17.5°	403.6	403.6	403.6	393.6	401.1	408.7	411.2	433.7	436.2	446.3	453.8
20°	330.9	338.5	351.0	356.0	363.5	363.5	358.5	371.1	361.0	368.5	373.6
22.5°	298.3	308.4	313.4	315.9	325.9	328.4	315.9	318.4	320.9	313.4	315.9
25°	280.8	285.8	280.8	283.3	285.8	280.8	283.3	288.3	285.8	290.8	288.3
27.5°	273.3	268.3	265.8	263.2	263.2	258.2	260.7	260.7	265.8	268.3	268.3
30°	273.3	265.8	255.7	248.2	248.2	240.7	245.7	250.7	253.2	258.2	258.2
32.5°	280.8	265.8	248.2	240.7	233.2	228.1	233.2	240.7	250.7	253.2	255.7
35°	223.1	230.7	228.1	218.1	215.6	215.6	213.1	213.1	205.6	205.6	203.1
37.5°	200.6	198.1	203.1	205.6	208.1	200.6	200.6	190.5	188.0	190.5	190.5
40°	188.0	188.0	188.0	195.6	198.1	193.0	185.5	180.5	180.5	180.5	183.0
42.5°	183.0	178.0	175.5	180.5	188.0	183.0	175.5	173.0	173.0	175.5	175.5
45°	175.5	173.0	170.5	168.0	178.0	170.5	168.0	165.5	165.5	165.5	168.0
47.5°	168.0	165.5	160.5	160.5	163.0	160.5	157.9	157.9	157.9	163.0	163.0
50°	163.0	160.5	155.4	155.4	155.4	155.4	152.9	152.9	152.9	155.4	157.9
52.5°	155.4	152.9	150.4	147.9	147.9	147.9	147.9	147.9	147.9	150.4	152.9
55°	147.9	145.4	142.9	142.9	145.4	145.4	142.9	145.4	142.9	145.4	147.9
57.5°	140.4	137.9	135.4	137.9	140.4	137.9	137.9	137.9	137.9	137.9	140.4
60°	130.4	130.4	130.4	130.4	135.4	135.4	135.4	135.4	130.4	132.9	135.4
62.5°	125.4	122.8	122.8	125.4	127.9	127.9	130.4	127.9	125.4	127.9	127.9
65°	115.3	115.3	115.3	117.8	117.8	120.3	120.3	120.3	117.8	120.3	120.3
67.5°	107.8	107.8	107.8	107.8	112.8	112.8	112.8	112.8	110.3	110.3	112.8
70°	95.3	97.8	95.3	100.3	105.3	102.8	105.3	105.3	102.8	100.3	105.3
72.5°	87.7	87.7	87.7	87.7	95.3	95.3	95.3	97.8	95.3	92.8	95.3
75°	77.7	77.7	77.7	80.2	85.2	85.2	85.2	85.2	85.2	82.7	82.7
77.5°	67.7	70.2	67.7	70.2	75.2	72.7	75.2	77.7	75.2	72.7	72.7
80°	57.7	57.7	57.7	60.2	62.7	62.7	62.7	65.2	62.7	60.2	60.2
82.5°	45.1	45.1	47.6	47.6	50.1	50.1	50.1	52.6	50.1	47.6	47.6
85°	35.1	35.1	35.1	37.6	37.6	40.1	40.1	42.6	42.6	40.1	40.1
87.5°	22.6	20.1	22.6	22.6	25.1	25.1	22.6	20.1	22.6	20.1	17.5
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°	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1
2.5°	1647.2	1692.3	1724.9	1747.5	1780.1	1842.7	1867.8	1912.9	1925.5	1933.0
5°	1416.5	1464.2	1534.4	1584.5	1642.2	1760.0	1850.3	1918.0	1948.0	1975.6
7.5°	1110.7	1173.3	1246.0	1311.2	1406.5	1551.9	1669.8	1810.2	1862.8	1890.4
10°	867.5	925.1	1005.4	1085.6	1218.5	1341.3	1509.3	1637.2	1709.9	1729.9
12.5°	732.1	799.8	895.0	992.8	1075.6	1216.0	1386.4	1572.0	1639.7	1652.2
15°	621.8	714.5	812.3	912.6	1007.9	1130.7	1313.7	1539.4	1639.7	1652.2
17.5°	514.0	596.7	712.0	819.8	930.1	1098.1	1326.3	1567.0	1667.2	1704.9
20°	408.7	488.9	579.1	714.5	865.0	1043.0	1353.9	1659.7	1792.6	1832.7
22.5°	338.5	373.6	461.3	591.7	769.7	1005.4	1381.4	1805.1	1945.5	1960.6
25°	295.8	320.9	376.1	498.9	694.5	980.3	1446.6	1973.1	2153.6	2153.6
27.5°	275.8	285.8	323.4	433.7	641.8	957.7	1511.8	2158.6	2326.6	2361.7
30°	270.8	295.8	315.9	386.1	584.2	895.0	1572.0	2304.1	2477.1	2479.6
32.5°	265.8	260.7	275.8	336.0	514.0	829.9	1622.1	2452.0	2587.4	2594.9
35°	208.1	218.1	243.2	295.8	461.3	782.2	1647.2	2532.2	2727.8	2735.3
37.5°	195.6	208.1	228.1	273.3	426.2	742.1	1654.7	2687.7	2875.7	2890.7
40°	190.5	200.6	215.6	253.2	398.6	692.0	1669.8	2848.1	3093.8	3073.7
42.5°	180.5	193.0	208.1	243.2	376.1	654.4	1672.3	2935.9	3209.1	3209.1
45°	178.0	185.5	203.1	243.2	351.0	621.8	1632.1	3023.6	3342.0	3301.9
47.5°	168.0	183.0	198.1	235.7	320.9	589.2	1584.5	3068.7	3359.6	3347.0
50°	165.5	180.5	205.6	223.1	303.4	574.1	1574.5	3181.6	3394.7	3392.2
52.5°	160.5	175.5	213.1	213.1	280.8	554.1	1622.1	3231.7	3402.2	3422.2
55°	152.9	175.5	198.1	195.6	260.7	529.0	1674.8	3362.1	3535.1	3530.0
57.5°	147.9	170.5	188.0	178.0	238.2	511.5	1752.5	3487.4	3695.5	3660.4
60°	140.4	170.5	168.0	165.5	220.6	496.4	1817.7	3512.5	3730.6	3753.2
62.5°	135.4	178.0	147.9	152.9	205.6	488.9	1790.1	3324.5	3683.0	3703.0
65°	130.4	152.9	135.4	140.4	200.6	473.8	1682.3	3098.8	3477.4	3565.1
67.5°	120.3	125.4	125.4	130.4	195.6	438.7	1461.7	2692.7	3164.0	3211.6
70°	110.3	112.8	112.8	120.3	190.5	398.6	1205.9	2329.1	2745.3	2835.6
72.5°	100.3	100.3	100.3	110.3	175.5	366.0	992.8	1790.1	2281.5	2344.2
75°	87.7	87.7	87.7	97.8	157.9	333.4	782.2	1331.3	1679.8	1770.0
77.5°	77.7	77.7	75.2	87.7	137.9	270.8	564.1	940.2	1183.4	1258.6
80°	65.2	62.7	62.7	70.2	107.8	195.6	363.5	664.4	824.8	857.4
82.5°	52.6	50.1	47.6	52.6	77.7	122.8	225.6	463.8	529.0	508.9
85°	50.1	52.6	42.6	40.1	55.2	80.2	142.9	285.8	238.2	238.2
87.5°	20.1	17.5	17.5	15.0	27.6	30.1	62.7	52.6	40.1	40.1
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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