

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: P675836

Luminaire Tested: **CCW-SA-1F-735-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675836
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-735-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SLL distribution lens
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6135.8 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

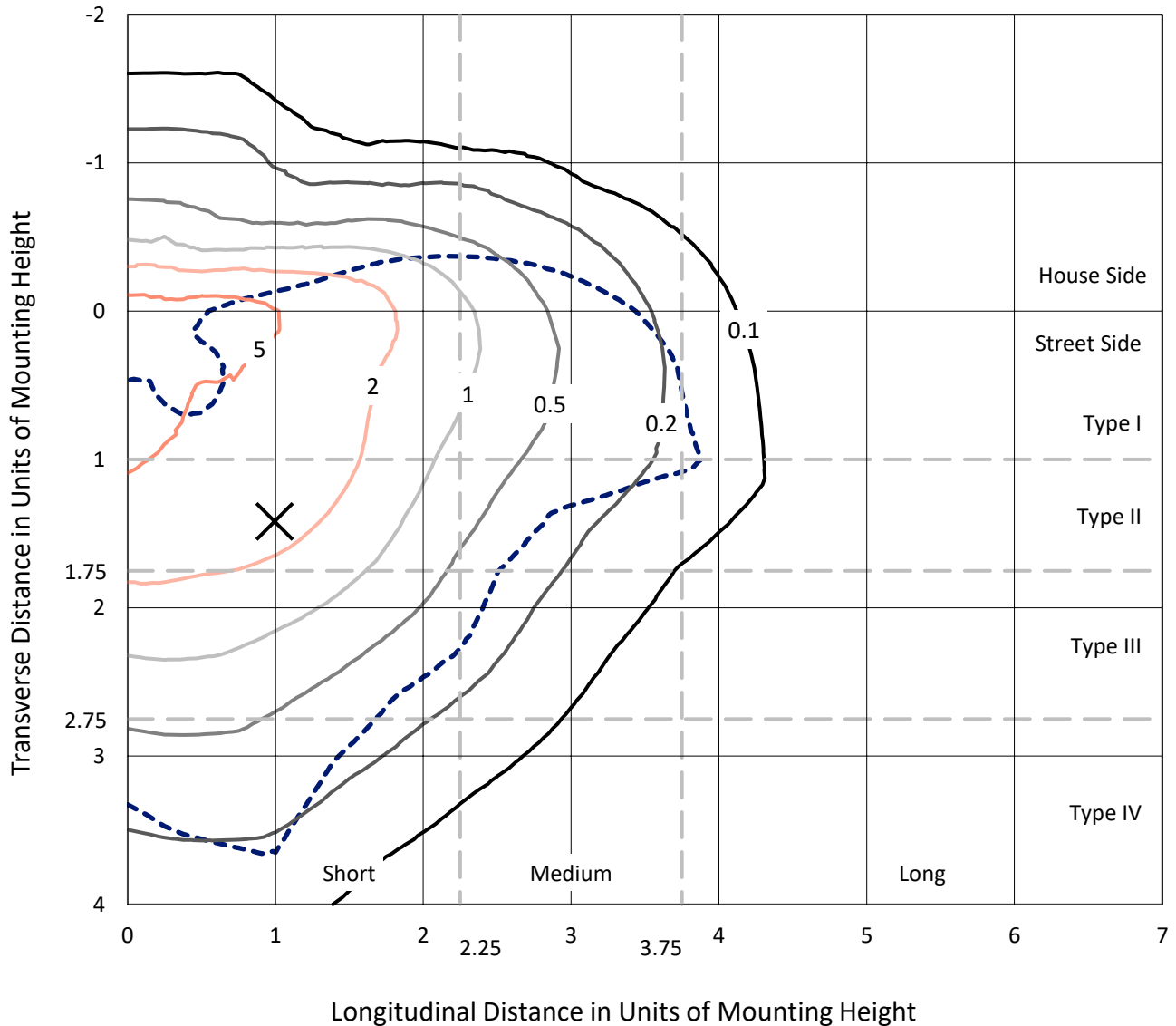
Input Watts (W): 67
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

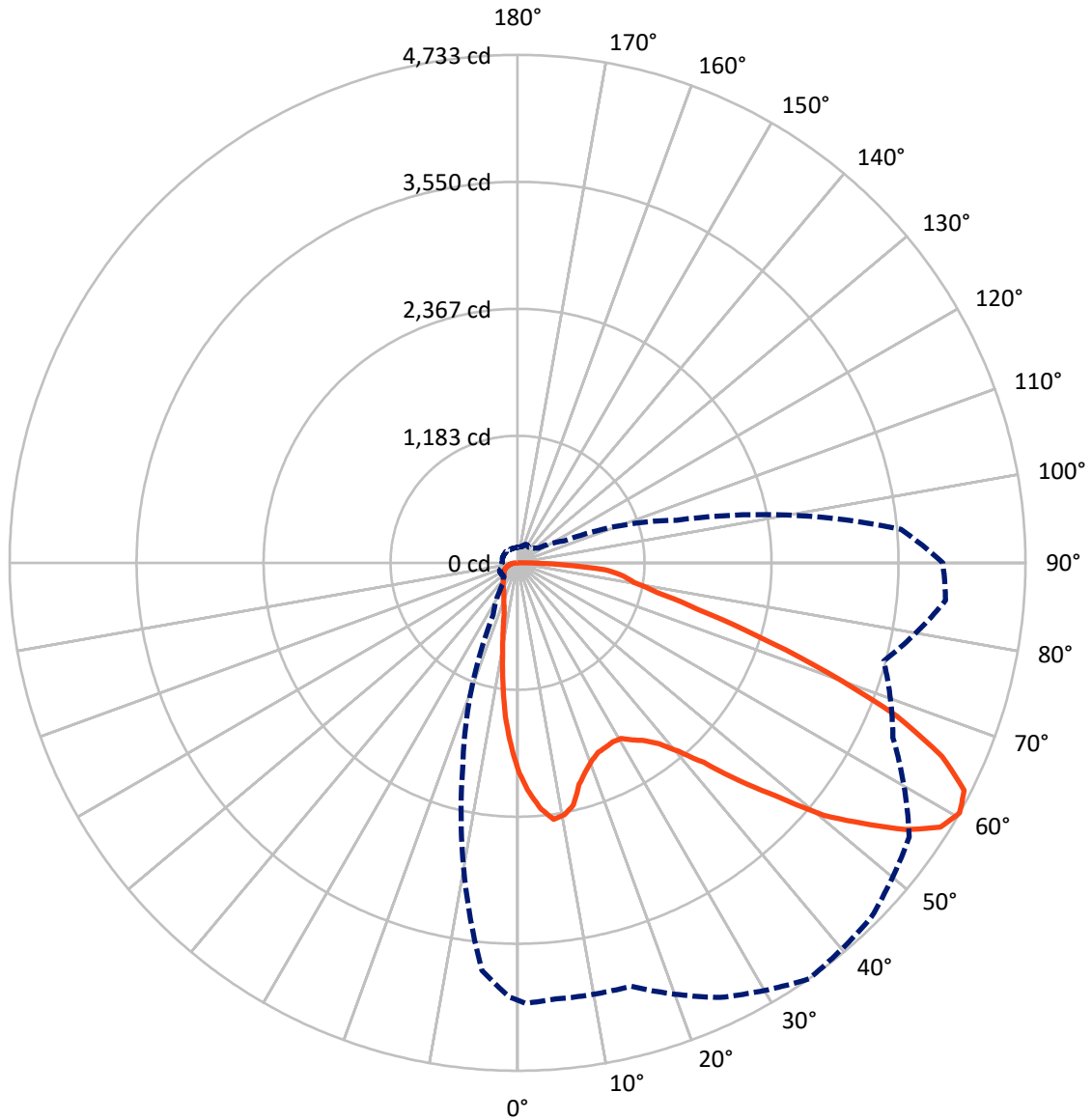
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.9 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	1167.7	0.0	1167.7
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	4968.1	0.0	4968.1
	% Fixture	81.0	0.0	81.0
Total	Lumens	6135.8	0.0	6135.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	2.5
10°-20°	321.4	5.2
20°-30°	470.3	7.7
30°-40°	662.6	10.8
40°-50°	910.7	14.8
50°-60°	1241.1	20.2
60°-70°	1358.3	22.1
70°-80°	784.2	12.8
80°-90°	234.8	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°	6135.8	100.0
0°-180°	6135.8	100.0

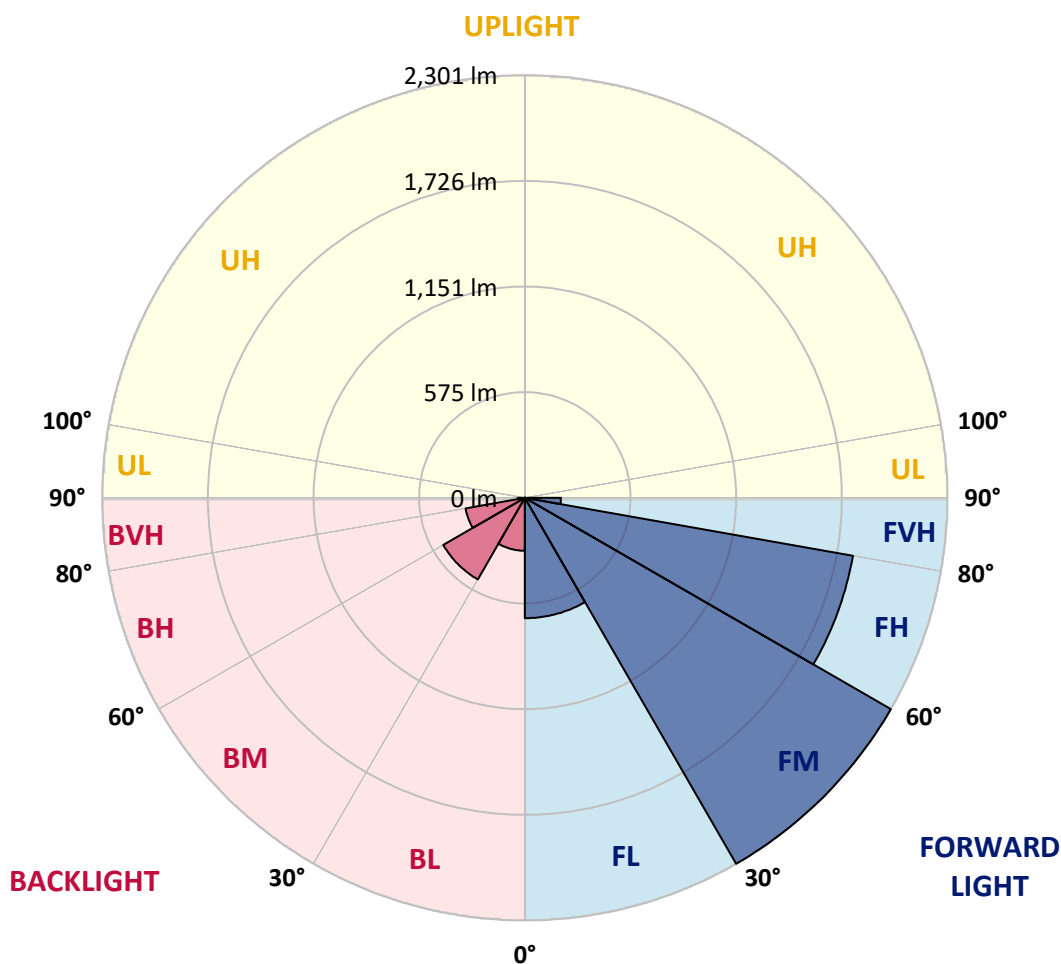


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.5	10.7			
FM (30°-60°)	2301.4	37.5			
FH (60°-80°)	1814.6	29.6			G2/5000
FVH (80°-90°)	196.6	3.2			G2/225
BL (0°-30°)	288.5	4.7	B1/500		
BM (30°-60°)	513.0	8.4	B1/1000		
BH (60°-80°)	328.0	5.3	B1/500		G1/500
BVH (80°-90°)	38.3	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°	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7
2.5°	2098.6	2090.4	2098.6	2128.5	2136.7	2150.3	2150.3	2131.2	2095.8	2079.5	2052.3
5°	2144.8	2131.2	2199.3	2261.9	2310.9	2305.4	2259.1	2221.0	2150.3	2044.1	1943.4
7.5°	2052.3	2065.9	2114.9	2278.2	2392.5	2414.3	2340.8	2264.6	2112.2	1965.2	1829.1
10°	1878.1	1897.1	2003.3	2172.0	2351.7	2387.1	2340.8	2248.3	2065.9	1883.5	1725.7
12.5°	1793.7	1837.3	1899.9	2104.0	2231.9	2316.3	2294.5	2234.6	2030.5	1815.5	1663.1
15°	1793.7	1804.6	1897.1	2068.6	2142.1	2144.8	2153.0	2163.9	2041.4	1845.4	1641.3
17.5°	1850.9	1880.8	1959.7	2065.9	2079.5	2046.8	2046.8	2093.1	2063.2	1929.8	1720.2
20°	1989.7	1978.8	2082.2	2125.8	2052.3	1970.6	1962.5	2041.4	2087.7	2019.6	1864.5
22.5°	2128.5	2177.5	2261.9	2163.9	2027.8	1918.9	1908.0	2006.0	2161.2	2174.8	2030.5
25°	2338.1	2387.1	2430.6	2310.9	2025.1	1905.3	1913.5	1989.7	2251.0	2395.2	2308.1
27.5°	2564.0	2593.9	2656.5	2471.4	2090.4	1889.0	1897.1	2011.5	2335.4	2539.5	2525.9
30°	2691.9	2724.6	2711.0	2501.4	2133.9	1899.9	1878.1	2041.4	2289.1	2539.5	2667.4
32.5°	2817.1	2798.1	2789.9	2550.4	2188.4	1967.9	1913.5	2104.0	2316.3	2580.3	2849.8
35°	2969.5	2942.3	2920.6	2645.6	2278.2	2033.2	2008.7	2185.7	2376.2	2664.7	2996.8
37.5°	3138.3	3138.3	3032.1	2716.4	2384.3	2139.4	2112.2	2302.7	2471.4	2716.4	3198.2
40°	3337.0	3345.2	3157.4	2811.7	2504.1	2308.1	2300.0	2455.1	2564.0	2792.6	3391.4
42.5°	3484.0	3489.4	3266.2	2847.1	2642.9	2542.2	2577.6	2700.1	2670.1	2860.7	3405.0
45°	3584.7	3557.5	3342.4	2947.8	2795.3	2893.3	2904.2	2939.6	2809.0	2901.5	3459.5
47.5°	3633.7	3628.2	3375.1	3064.8	3116.5	3249.9	3312.5	3263.5	2936.9	2858.0	3459.5
50°	3682.7	3636.4	3405.0	3225.4	3429.5	3699.0	3685.4	3595.6	3113.8	2912.4	3407.8
52.5°	3715.3	3674.5	3464.9	3369.7	3728.9	4033.8	4088.2	3922.2	3320.7	3013.1	3432.3
55°	3832.4	3799.7	3644.6	3565.6	4074.6	4387.6	4395.8	4164.4	3538.4	3179.1	3592.9
57.5°	3973.9	3993.0	3892.3	3843.3	4338.6	4646.2	4616.3	4344.1	3723.5	3380.5	3777.9
60°	4074.6	4104.6	4080.1	4085.5	4469.3	4733.3	4665.3	4455.7	3859.6	3533.0	4003.9
62.5°	4020.2	4080.1	4180.8	4159.0	4474.7	4670.7	4575.4	4308.7	3875.9	3731.7	4175.3
65°	3870.5	3875.9	4071.9	4191.7	4229.8	4346.8	4221.6	4001.1	3707.2	3854.1	4150.8
67.5°	3486.7	3530.2	3707.2	3941.2	3780.7	3807.9	3797.0	3478.5	3451.3	3769.8	3963.0
70°	3078.4	3108.4	3301.6	3576.5	3192.7	3064.8	3089.3	2852.5	2964.1	3508.5	3584.7
72.5°	2544.9	2564.0	2784.5	3026.7	2561.3	2332.6	2389.8	2196.5	2354.4	3070.3	3024.0
75°	1921.6	1957.0	2128.5	2414.3	1886.2	1739.3	1796.4	1717.5	1864.5	2528.6	2346.2
77.5°	1366.4	1339.2	1551.5	1889.0	1418.1	1331.0	1336.4	1350.0	1507.9	2131.2	1684.8
80°	930.9	939.0	1129.6	1385.4	1113.2	1099.6	1086.0	1194.9	1265.7	1687.6	1224.8
82.5°	552.5	552.5	762.1	985.3	879.2	990.8	928.2	1026.1	990.8	1241.2	802.9
85°	258.6	258.6	391.9	710.4	680.5	816.6	694.1	775.7	732.2	865.6	362.0
87.5°	43.5	38.1	78.9	348.4	280.4	318.5	125.2	413.7	460.0	604.3	89.8
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°	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7
2.5°	2022.3	2003.3	1965.2	1916.2	1875.4	1823.6	1807.3	1771.9	1722.9	1717.5	1695.7
5°	1905.3	1840.0	1758.3	1657.6	1589.6	1518.8	1458.9	1423.5	1382.7	1377.3	1366.4
7.5°	1777.4	1695.7	1559.6	1439.9	1322.8	1211.2	1156.8	1088.7	1042.5	1007.1	990.8
10°	1657.6	1581.4	1412.6	1249.3	1145.9	1072.4	1007.1	936.3	879.2	835.6	819.3
12.5°	1578.7	1488.9	1306.5	1151.3	1075.1	990.8	917.3	841.1	767.6	710.4	680.5
15°	1543.3	1458.9	1273.8	1102.4	990.8	873.7	789.3	713.1	623.3	582.5	568.9
17.5°	1627.7	1502.5	1262.9	1045.2	887.3	754.0	650.5	568.9	503.5	462.7	446.4
20°	1736.5	1581.4	1282.0	977.1	789.3	639.6	525.3	438.2	394.7	364.7	362.0
22.5°	1875.4	1698.4	1311.9	928.2	680.5	514.4	411.0	359.3	329.3	326.6	321.2
25°	2123.0	1910.7	1360.9	862.8	593.4	424.6	351.1	321.2	307.6	299.4	304.8
27.5°	2335.4	2049.6	1396.3	822.0	558.0	400.1	340.2	307.6	294.0	291.2	294.0
30°	2460.6	2177.5	1385.4	745.8	487.2	381.1	362.0	351.1	323.9	302.1	302.1
32.5°	2574.9	2259.1	1382.7	677.7	416.4	318.5	302.1	294.0	310.3	321.2	313.0
35°	2732.7	2387.1	1374.5	639.6	386.5	294.0	266.7	245.0	234.1	228.6	236.8
37.5°	2901.5	2474.2	1352.8	634.2	370.2	280.4	258.6	236.8	225.9	220.5	217.7
40°	3086.6	2566.7	1328.3	607.0	362.0	272.2	250.4	231.4	217.7	209.6	206.9
42.5°	3206.3	2640.2	1303.8	593.4	345.7	266.7	242.2	225.9	212.3	201.4	201.4
45°	3274.4	2727.3	1279.3	579.8	326.6	269.5	242.2	220.5	204.1	198.7	193.3
47.5°	3304.3	2792.6	1271.1	558.0	310.3	258.6	236.8	215.0	198.7	187.8	185.1
50°	3383.3	2931.4	1301.0	541.6	291.2	247.7	250.4	212.3	196.0	182.4	179.6
52.5°	3429.5	3043.0	1366.4	517.2	277.6	234.1	245.0	206.9	187.8	174.2	174.2
55°	3598.3	3228.1	1437.1	498.1	261.3	215.0	225.9	196.0	174.2	166.0	166.0
57.5°	3813.3	3424.1	1497.0	489.9	250.4	201.4	201.4	190.5	166.0	155.1	152.4
60°	3963.0	3584.7	1532.4	484.5	239.5	187.8	179.6	190.5	157.9	147.0	144.3
62.5°	3979.4	3492.1	1497.0	481.8	236.8	174.2	163.3	182.4	149.7	138.8	133.4
65°	3875.9	3304.3	1399.0	470.9	234.1	160.6	152.4	157.9	138.8	130.6	125.2
67.5°	3669.1	2999.5	1257.5	465.4	231.4	149.7	138.8	136.1	127.9	119.8	114.3
70°	3187.3	2602.1	1091.5	440.9	225.9	141.5	125.2	122.5	114.3	108.9	106.2
72.5°	2675.6	2128.5	900.9	408.3	215.0	127.9	114.3	108.9	106.2	98.0	95.3
75°	2049.6	1638.6	721.3	362.0	187.8	114.3	100.7	95.3	92.5	87.1	84.4
77.5°	1439.9	1219.4	533.5	294.0	157.9	103.4	89.8	84.4	81.7	73.5	73.5
80°	977.1	854.7	362.0	204.1	122.5	84.4	78.9	73.5	68.0	62.6	62.6
82.5°	607.0	598.8	261.3	133.4	89.8	68.0	62.6	62.6	54.4	49.0	49.0
85°	277.6	367.5	182.4	92.5	68.0	51.7	51.7	49.0	43.5	35.4	35.4
87.5°	87.1	122.5	95.3	40.8	38.1	29.9	29.9	27.2	27.2	21.8	21.8
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°	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7
2.5°	1717.5	1714.8	1714.8	1703.9	1731.1	1731.1	1747.4	1733.8	1742.0	1744.7	1766.5
5°	1363.7	1385.4	1401.8	1434.4	1453.5	1461.6	1461.6	1483.4	1475.2	1491.6	1524.2
7.5°	998.9	1026.1	1075.1	1116.0	1148.6	1159.5	1156.8	1162.2	1170.4	1151.3	1156.8
10°	808.4	789.3	805.7	843.8	873.7	909.1	881.9	879.2	887.3	879.2	895.5
12.5°	675.0	653.2	639.6	639.6	661.4	677.7	669.6	683.2	713.1	721.3	740.3
15°	547.1	528.0	517.2	503.5	525.3	530.8	538.9	558.0	579.8	590.6	612.4
17.5°	438.2	438.2	438.2	427.3	435.5	443.7	446.4	470.9	473.6	484.5	492.7
20°	359.3	367.5	381.1	386.5	394.7	394.7	389.2	402.8	391.9	400.1	405.6
22.5°	323.9	334.8	340.2	343.0	353.8	356.6	343.0	345.7	348.4	340.2	343.0
25°	304.8	310.3	304.8	307.6	310.3	304.8	307.6	313.0	310.3	315.7	313.0
27.5°	296.7	291.2	288.5	285.8	285.8	280.4	283.1	283.1	288.5	291.2	291.2
30°	296.7	288.5	277.6	269.5	269.5	261.3	266.7	272.2	274.9	280.4	280.4
32.5°	304.8	288.5	269.5	261.3	253.1	247.7	253.1	261.3	272.2	274.9	277.6
35°	242.2	250.4	247.7	236.8	234.1	234.1	231.4	231.4	223.2	223.2	220.5
37.5°	217.7	215.0	220.5	223.2	225.9	217.7	217.7	206.9	204.1	206.9	206.9
40°	204.1	204.1	204.1	212.3	215.0	209.6	201.4	196.0	196.0	196.0	198.7
42.5°	198.7	193.3	190.5	196.0	204.1	198.7	190.5	187.8	187.8	190.5	190.5
45°	190.5	187.8	185.1	182.4	193.3	185.1	182.4	179.6	179.6	179.6	182.4
47.5°	182.4	179.6	174.2	174.2	176.9	174.2	171.5	171.5	171.5	176.9	176.9
50°	176.9	174.2	168.8	168.8	168.8	168.8	166.0	166.0	166.0	168.8	171.5
52.5°	168.8	166.0	163.3	160.6	160.6	160.6	160.6	160.6	160.6	163.3	166.0
55°	160.6	157.9	155.1	155.1	157.9	157.9	155.1	157.9	155.1	157.9	160.6
57.5°	152.4	149.7	147.0	149.7	152.4	149.7	149.7	149.7	149.7	149.7	152.4
60°	141.5	141.5	141.5	141.5	147.0	147.0	147.0	147.0	141.5	144.3	147.0
62.5°	136.1	133.4	133.4	136.1	138.8	138.8	141.5	138.8	136.1	138.8	138.8
65°	125.2	125.2	125.2	127.9	127.9	130.6	130.6	130.6	127.9	130.6	130.6
67.5°	117.0	117.0	117.0	117.0	122.5	122.5	122.5	122.5	119.8	119.8	122.5
70°	103.4	106.2	103.4	108.9	114.3	111.6	114.3	114.3	111.6	108.9	114.3
72.5°	95.3	95.3	95.3	95.3	103.4	103.4	103.4	106.2	103.4	100.7	103.4
75°	84.4	84.4	84.4	87.1	92.5	92.5	92.5	92.5	92.5	89.8	89.8
77.5°	73.5	76.2	73.5	76.2	81.7	78.9	81.7	84.4	81.7	78.9	78.9
80°	62.6	62.6	62.6	65.3	68.0	68.0	68.0	70.8	68.0	65.3	65.3
82.5°	49.0	49.0	51.7	51.7	54.4	54.4	54.4	57.2	54.4	51.7	51.7
85°	38.1	38.1	38.1	40.8	40.8	43.5	43.5	46.3	46.3	43.5	43.5
87.5°	24.5	21.8	24.5	24.5	27.2	27.2	24.5	21.8	24.5	21.8	19.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7
2.5°	1788.3	1837.3	1872.6	1897.1	1932.5	2000.6	2027.8	2076.8	2090.4	2098.6
5°	1537.8	1589.6	1665.8	1720.2	1782.8	1910.7	2008.7	2082.2	2114.9	2144.8
7.5°	1205.8	1273.8	1352.8	1423.5	1527.0	1684.8	1812.8	1965.2	2022.3	2052.3
10°	941.8	1004.4	1091.5	1178.6	1322.8	1456.2	1638.6	1777.4	1856.3	1878.1
12.5°	794.8	868.3	971.7	1077.9	1167.7	1320.1	1505.2	1706.6	1780.1	1793.7
15°	675.0	775.7	881.9	990.8	1094.2	1227.6	1426.3	1671.2	1780.1	1793.7
17.5°	558.0	647.8	773.0	890.0	1009.8	1192.2	1439.9	1701.2	1810.0	1850.9
20°	443.7	530.8	628.7	775.7	939.0	1132.3	1469.8	1801.9	1946.1	1989.7
22.5°	367.5	405.6	500.8	642.4	835.6	1091.5	1499.7	1959.7	2112.2	2128.5
25°	321.2	348.4	408.3	541.6	754.0	1064.2	1570.5	2142.1	2338.1	2338.1
27.5°	299.4	310.3	351.1	470.9	696.8	1039.7	1641.3	2343.5	2525.9	2564.0
30°	294.0	321.2	343.0	419.2	634.2	971.7	1706.6	2501.4	2689.2	2691.9
32.5°	288.5	283.1	299.4	364.7	558.0	900.9	1761.0	2662.0	2809.0	2817.1
35°	225.9	236.8	264.0	321.2	500.8	849.2	1788.3	2749.1	2961.4	2969.5
37.5°	212.3	225.9	247.7	296.7	462.7	805.7	1796.4	2917.8	3122.0	3138.3
40°	206.9	217.7	234.1	274.9	432.8	751.2	1812.8	3092.0	3358.8	3337.0
42.5°	196.0	209.6	225.9	264.0	408.3	710.4	1815.5	3187.3	3484.0	3484.0
45°	193.3	201.4	220.5	264.0	381.1	675.0	1771.9	3282.6	3628.2	3584.7
47.5°	182.4	198.7	215.0	255.9	348.4	639.6	1720.2	3331.6	3647.3	3633.7
50°	179.6	196.0	223.2	242.2	329.3	623.3	1709.3	3454.0	3685.4	3682.7
52.5°	174.2	190.5	231.4	231.4	304.8	601.5	1761.0	3508.5	3693.6	3715.3
55°	166.0	190.5	215.0	212.3	283.1	574.3	1818.2	3650.0	3837.8	3832.4
57.5°	160.6	185.1	204.1	193.3	258.6	555.3	1902.6	3786.1	4012.0	3973.9
60°	152.4	185.1	182.4	179.6	239.5	538.9	1973.3	3813.3	4050.1	4074.6
62.5°	147.0	193.3	160.6	166.0	223.2	530.8	1943.4	3609.2	3998.4	4020.2
65°	141.5	166.0	147.0	152.4	217.7	514.4	1826.4	3364.2	3775.2	3870.5
67.5°	130.6	136.1	136.1	141.5	212.3	476.3	1586.8	2923.3	3435.0	3486.7
70°	119.8	122.5	122.5	130.6	206.9	432.8	1309.2	2528.6	2980.4	3078.4
72.5°	108.9	108.9	108.9	119.8	190.5	397.4	1077.9	1943.4	2476.9	2544.9
75°	95.3	95.3	95.3	106.2	171.5	362.0	849.2	1445.3	1823.6	1921.6
77.5°	84.4	84.4	81.7	95.3	149.7	294.0	612.4	1020.7	1284.7	1366.4
80°	70.8	68.0	68.0	76.2	117.0	212.3	394.7	721.3	895.5	930.9
82.5°	57.2	54.4	51.7	57.2	84.4	133.4	245.0	503.5	574.3	552.5
85°	54.4	57.2	46.3	43.5	59.9	87.1	155.1	310.3	258.6	258.6
87.5°	21.8	19.1	19.1	16.3	29.9	32.7	68.0	57.2	43.5	43.5
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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