

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: P675884

Luminaire Tested: **CCW-SA-2D-827-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675884
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-827-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SLL distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

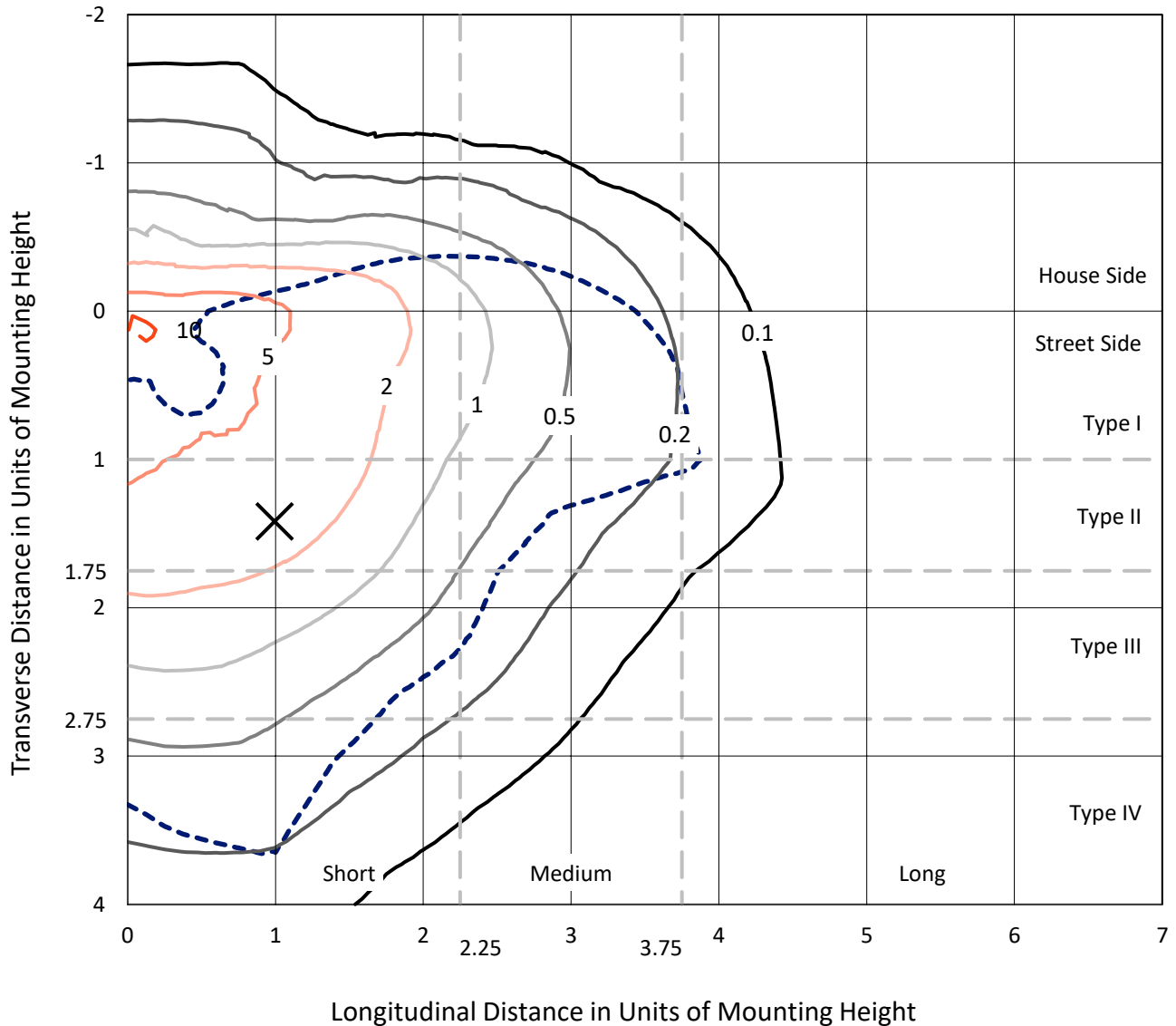
Lumens per Lamp: N/A
Luminaire Lumens: 6802.4 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
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

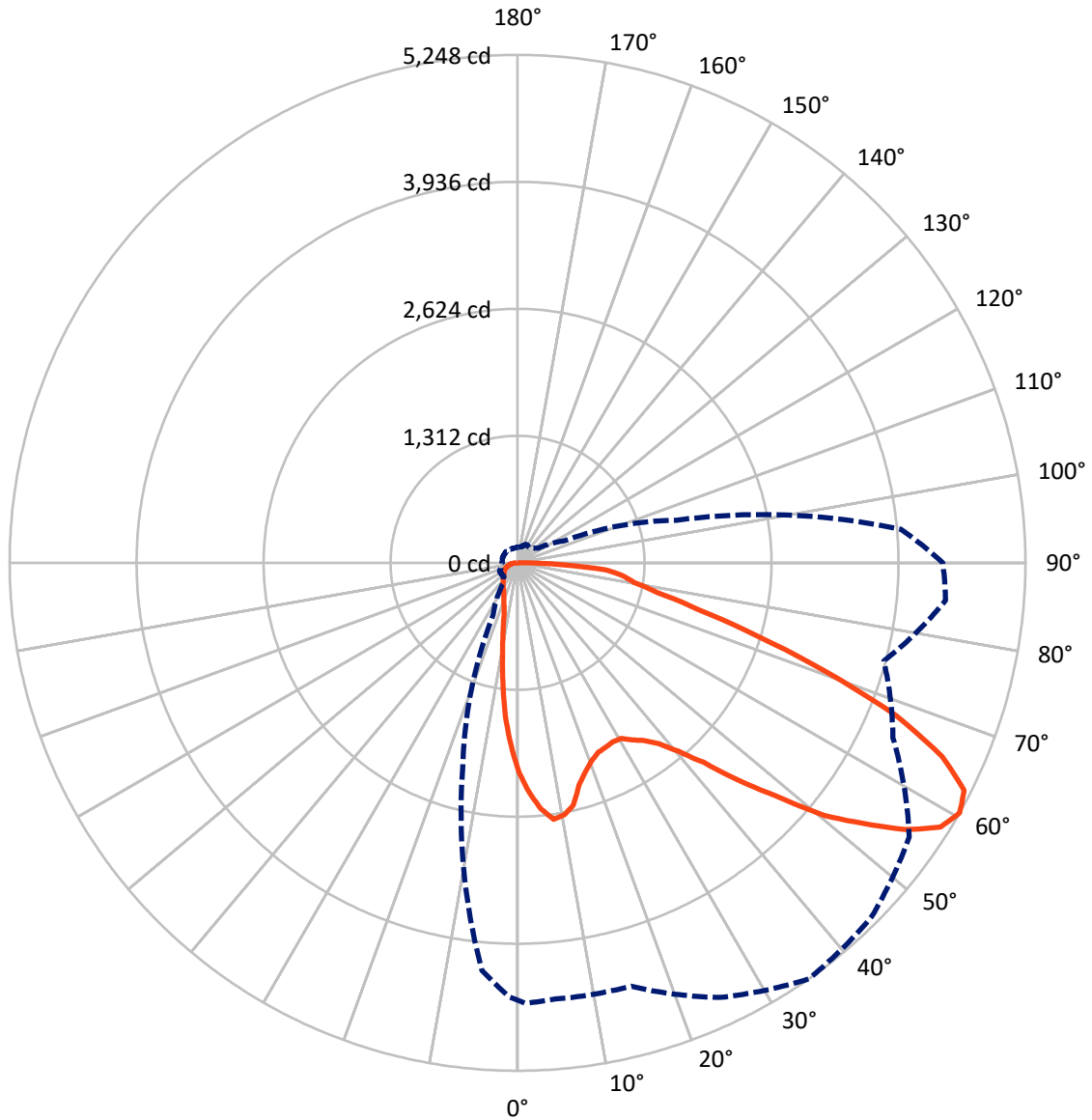
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11 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	1294.6	0.0	1294.6
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	5507.8	0.0	5507.8
	% Fixture	81.0	0.0	81.0
Total	Lumens	6802.4	0.0	6802.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	2.5
10°-20°	356.4	5.2
20°-30°	521.4	7.7
30°-40°	734.6	10.8
40°-50°	1009.6	14.8
50°-60°	1376.0	20.2
60°-70°	1505.9	22.1
70°-80°	869.4	12.8
80°-90°	260.4	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°	6802.4	100.0
0°-180°	6802.4	100.0

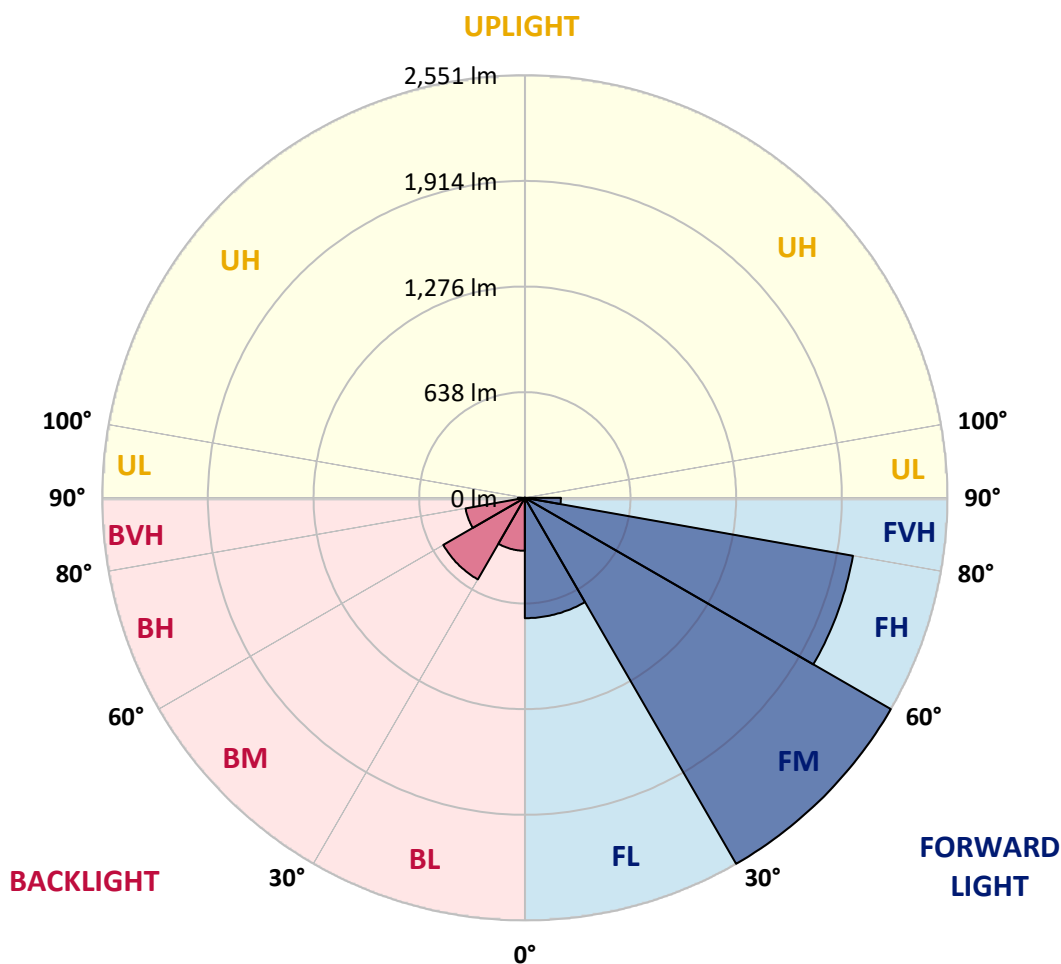


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.7	10.7			
FM (30°-60°)	2551.5	37.5			
FH (60°-80°)	2011.7	29.6			G2/5000
FVH (80°-90°)	217.9	3.2			G2/225
BL (0°-30°)	319.8	4.7	B1/500		
BM (30°-60°)	568.7	8.4	B1/1000		
BH (60°-80°)	363.6	5.3	B1/500		G1/500
BVH (80°-90°)	42.4	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°	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7
2.5°	2326.6	2317.5	2326.6	2359.7	2368.8	2383.9	2383.9	2362.8	2323.5	2305.4	2275.3
5°	2377.9	2362.8	2438.2	2507.6	2561.9	2555.9	2504.6	2462.3	2383.9	2266.2	2154.6
7.5°	2275.3	2290.3	2344.7	2525.7	2652.5	2676.6	2595.1	2510.6	2341.6	2178.7	2027.8
10°	2082.1	2103.3	2220.9	2408.0	2607.2	2646.4	2595.1	2492.5	2290.3	2088.2	1913.1
12.5°	1988.6	2036.9	2106.3	2332.6	2474.4	2568.0	2543.8	2477.4	2251.1	2012.7	1843.7
15°	1988.6	2000.7	2103.3	2293.4	2374.8	2377.9	2386.9	2399.0	2263.2	2045.9	1819.6
17.5°	2052.0	2085.1	2172.7	2290.3	2305.4	2269.2	2269.2	2320.5	2287.3	2139.5	1907.1
20°	2205.9	2193.8	2308.5	2356.7	2275.3	2184.7	2175.7	2263.2	2314.5	2239.0	2067.0
22.5°	2359.7	2414.1	2507.6	2399.0	2248.1	2127.4	2115.3	2224.0	2396.0	2411.0	2251.1
25°	2592.1	2646.4	2694.7	2561.9	2245.1	2112.3	2121.4	2205.9	2495.5	2655.5	2558.9
27.5°	2842.6	2875.8	2945.2	2740.0	2317.5	2094.2	2103.3	2230.0	2589.1	2815.4	2800.3
30°	2984.4	3020.6	3005.5	2773.2	2365.8	2106.3	2082.1	2263.2	2537.8	2815.4	2957.2
32.5°	3123.2	3102.1	3093.0	2827.5	2426.1	2181.7	2121.4	2332.6	2568.0	2860.7	3159.4
35°	3292.2	3262.0	3237.9	2933.1	2525.7	2254.1	2227.0	2423.1	2634.4	2954.2	3322.4
37.5°	3479.3	3479.3	3361.6	3011.5	2643.4	2371.8	2341.6	2552.9	2740.0	3011.5	3545.7
40°	3699.6	3708.6	3500.4	3117.2	2776.2	2558.9	2549.9	2721.9	2842.6	3096.0	3759.9
42.5°	3862.5	3868.5	3621.1	3156.4	2930.1	2818.4	2857.7	2993.4	2960.2	3171.5	3775.0
45°	3974.2	3944.0	3705.6	3268.0	3099.1	3207.7	3219.8	3259.0	3114.1	3216.7	3835.3
47.5°	4028.5	4022.4	3741.8	3397.8	3455.1	3603.0	3672.4	3618.1	3256.0	3168.5	3835.3
50°	4082.8	4031.5	3775.0	3575.8	3802.2	4100.9	4085.8	3986.2	3452.1	3228.8	3778.0
52.5°	4119.0	4073.7	3841.4	3735.8	4134.1	4472.1	4532.4	4348.3	3681.5	3340.5	3805.2
55°	4248.8	4212.5	4040.5	3953.0	4517.3	4864.3	4873.4	4616.9	3922.9	3524.5	3983.2
57.5°	4405.7	4426.8	4315.1	4260.8	4810.0	5151.0	5117.8	4816.1	4128.1	3747.8	4188.4
60°	4517.3	4550.5	4523.4	4529.4	4954.9	5247.6	5172.1	4939.8	4278.9	3916.8	4438.9
62.5°	4457.0	4523.4	4635.0	4610.9	4960.9	5178.2	5072.6	4776.8	4297.0	4137.1	4629.0
65°	4291.0	4297.0	4514.3	4647.1	4689.3	4819.1	4680.3	4435.8	4109.9	4272.9	4601.8
67.5°	3865.5	3913.8	4109.9	4369.5	4191.4	4221.6	4209.5	3856.5	3826.3	4179.4	4393.6
70°	3412.9	3446.1	3660.3	3965.1	3539.6	3397.8	3425.0	3162.4	3286.1	3889.7	3974.2
72.5°	2821.4	2842.6	3087.0	3355.6	2839.5	2586.1	2649.4	2435.2	2610.2	3403.8	3352.5
75°	2130.4	2169.6	2359.7	2676.6	2091.2	1928.2	1991.6	1904.1	2067.0	2803.3	2601.2
77.5°	1514.8	1484.7	1720.0	2094.2	1572.2	1475.6	1481.6	1496.7	1671.7	2362.8	1867.9
80°	1032.0	1041.1	1252.3	1535.9	1234.2	1219.1	1204.0	1324.7	1403.2	1870.9	1357.9
82.5°	612.6	612.6	844.9	1092.4	974.7	1098.4	1029.0	1137.6	1098.4	1376.0	890.2
85°	286.7	286.7	434.5	787.6	754.4	905.3	769.5	860.0	811.7	959.6	401.3
87.5°	48.3	42.2	87.5	386.3	310.8	353.1	138.8	458.7	510.0	669.9	99.6
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°	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7
2.5°	2242.1	2220.9	2178.7	2124.4	2079.1	2021.8	2003.7	1964.4	1910.1	1904.1	1880.0
5°	2112.3	2039.9	1949.4	1837.7	1762.3	1683.8	1617.4	1578.2	1532.9	1526.9	1514.8
7.5°	1970.5	1880.0	1729.1	1596.3	1466.5	1342.8	1282.5	1207.0	1155.7	1116.5	1098.4
10°	1837.7	1753.2	1566.1	1385.1	1270.4	1188.9	1116.5	1038.0	974.7	926.4	908.3
12.5°	1750.2	1650.6	1448.4	1276.4	1191.9	1098.4	1016.9	932.4	851.0	787.6	754.4
15°	1711.0	1617.4	1412.2	1222.1	1098.4	968.6	875.1	790.6	691.0	645.8	630.7
17.5°	1804.5	1665.7	1400.2	1158.8	983.7	835.9	721.2	630.7	558.3	513.0	494.9
20°	1925.2	1753.2	1421.3	1083.3	875.1	709.1	582.4	485.8	437.5	404.4	401.3
22.5°	2079.1	1883.0	1454.5	1029.0	754.4	570.3	455.7	398.3	365.1	362.1	356.1
25°	2353.7	2118.3	1508.8	956.6	657.8	470.7	389.3	356.1	341.0	331.9	338.0
27.5°	2589.1	2272.2	1548.0	911.3	618.6	443.6	377.2	341.0	325.9	322.9	325.9
30°	2727.9	2414.1	1535.9	826.8	540.1	422.5	401.3	389.3	359.1	335.0	335.0
32.5°	2854.6	2504.6	1532.9	751.4	461.7	353.1	335.0	325.9	344.0	356.1	347.0
35°	3029.7	2646.4	1523.9	709.1	428.5	325.9	295.7	271.6	259.5	253.5	262.5
37.5°	3216.7	2743.0	1499.7	703.1	410.4	310.8	286.7	262.5	250.5	244.4	241.4
40°	3421.9	2845.6	1472.6	672.9	401.3	301.8	277.6	256.5	241.4	232.4	229.3
42.5°	3554.7	2927.1	1445.4	657.8	383.2	295.7	268.6	250.5	235.4	223.3	223.3
45°	3630.2	3023.6	1418.3	642.7	362.1	298.7	268.6	244.4	226.3	220.3	214.2
47.5°	3663.3	3096.0	1409.2	618.6	344.0	286.7	262.5	238.4	220.3	208.2	205.2
50°	3750.9	3249.9	1442.4	600.5	322.9	274.6	277.6	235.4	217.3	202.2	199.2
52.5°	3802.2	3373.7	1514.8	573.3	307.8	259.5	271.6	229.3	208.2	193.1	193.1
55°	3989.2	3578.9	1593.3	552.2	289.7	238.4	250.5	217.3	193.1	184.1	184.1
57.5°	4227.6	3796.1	1659.7	543.2	277.6	223.3	223.3	211.2	184.1	172.0	169.0
60°	4393.6	3974.2	1698.9	537.1	265.5	208.2	199.2	211.2	175.0	162.9	159.9
62.5°	4411.7	3871.6	1659.7	534.1	262.5	193.1	181.1	202.2	166.0	153.9	147.9
65°	4297.0	3663.3	1551.0	522.0	259.5	178.0	169.0	175.0	153.9	144.8	138.8
67.5°	4067.7	3325.4	1394.1	516.0	256.5	166.0	153.9	150.9	141.8	132.8	126.7
70°	3533.6	2884.8	1210.1	488.8	250.5	156.9	138.8	135.8	126.7	120.7	117.7
72.5°	2966.3	2359.7	998.8	452.6	238.4	141.8	126.7	120.7	117.7	108.6	105.6
75°	2272.2	1816.6	799.7	401.3	208.2	126.7	111.7	105.6	102.6	96.6	93.5
77.5°	1596.3	1351.9	591.4	325.9	175.0	114.7	99.6	93.5	90.5	81.5	81.5
80°	1083.3	947.5	401.3	226.3	135.8	93.5	87.5	81.5	75.4	69.4	69.4
82.5°	672.9	663.9	289.7	147.9	99.6	75.4	69.4	69.4	60.4	54.3	54.3
85°	307.8	407.4	202.2	102.6	75.4	57.3	57.3	54.3	48.3	39.2	39.2
87.5°	96.6	135.8	105.6	45.3	42.2	33.2	33.2	30.2	30.2	24.1	24.1
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°	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7
2.5°	1904.1	1901.1	1901.1	1889.0	1919.2	1919.2	1937.3	1922.2	1931.3	1934.3	1958.4
5°	1511.8	1535.9	1554.1	1590.3	1611.4	1620.4	1620.4	1644.6	1635.5	1653.6	1689.8
7.5°	1107.5	1137.6	1191.9	1237.2	1273.4	1285.5	1282.5	1288.5	1297.6	1276.4	1282.5
10°	896.2	875.1	893.2	935.5	968.6	1007.9	977.7	974.7	983.7	974.7	992.8
12.5°	748.4	724.2	709.1	709.1	733.3	751.4	742.3	757.4	790.6	799.7	820.8
15°	606.5	585.4	573.3	558.3	582.4	588.4	597.5	618.6	642.7	654.8	679.0
17.5°	485.8	485.8	485.8	473.8	482.8	491.9	494.9	522.0	525.1	537.1	546.2
20°	398.3	407.4	422.5	428.5	437.5	437.5	431.5	446.6	434.5	443.6	449.6
22.5°	359.1	371.2	377.2	380.2	392.3	395.3	380.2	383.2	386.3	377.2	380.2
25°	338.0	344.0	338.0	341.0	344.0	338.0	341.0	347.0	344.0	350.0	347.0
27.5°	328.9	322.9	319.9	316.8	316.8	310.8	313.8	313.8	319.9	322.9	322.9
30°	328.9	319.9	307.8	298.7	298.7	289.7	295.7	301.8	304.8	310.8	310.8
32.5°	338.0	319.9	298.7	289.7	280.6	274.6	280.6	289.7	301.8	304.8	307.8
35°	268.6	277.6	274.6	262.5	259.5	259.5	256.5	256.5	247.4	247.4	244.4
37.5°	241.4	238.4	244.4	247.4	250.5	241.4	241.4	229.3	226.3	229.3	229.3
40°	226.3	226.3	226.3	235.4	238.4	232.4	223.3	217.3	217.3	217.3	220.3
42.5°	220.3	214.2	211.2	217.3	226.3	220.3	211.2	208.2	208.2	211.2	211.2
45°	211.2	208.2	205.2	202.2	214.2	205.2	202.2	199.2	199.2	199.2	202.2
47.5°	202.2	199.2	193.1	193.1	196.1	193.1	190.1	190.1	190.1	196.1	196.1
50°	196.1	193.1	187.1	187.1	187.1	187.1	184.1	184.1	184.1	187.1	190.1
52.5°	187.1	184.1	181.1	178.0	178.0	178.0	178.0	178.0	178.0	181.1	184.1
55°	178.0	175.0	172.0	172.0	175.0	175.0	172.0	175.0	172.0	175.0	178.0
57.5°	169.0	166.0	162.9	166.0	169.0	166.0	166.0	166.0	166.0	166.0	169.0
60°	156.9	156.9	156.9	156.9	162.9	162.9	162.9	162.9	156.9	159.9	162.9
62.5°	150.9	147.9	147.9	150.9	153.9	153.9	156.9	153.9	150.9	153.9	153.9
65°	138.8	138.8	138.8	141.8	141.8	144.8	144.8	144.8	141.8	144.8	144.8
67.5°	129.8	129.8	129.8	129.8	135.8	135.8	135.8	135.8	132.8	132.8	135.8
70°	114.7	117.7	114.7	120.7	126.7	123.7	126.7	126.7	123.7	120.7	126.7
72.5°	105.6	105.6	105.6	105.6	114.7	114.7	114.7	117.7	114.7	111.7	114.7
75°	93.5	93.5	93.5	96.6	102.6	102.6	102.6	102.6	102.6	99.6	99.6
77.5°	81.5	84.5	81.5	84.5	90.5	87.5	90.5	93.5	90.5	87.5	87.5
80°	69.4	69.4	69.4	72.4	75.4	75.4	75.4	78.5	75.4	72.4	72.4
82.5°	54.3	54.3	57.3	57.3	60.4	60.4	60.4	63.4	60.4	57.3	57.3
85°	42.2	42.2	42.2	45.3	45.3	48.3	48.3	51.3	51.3	48.3	48.3
87.5°	27.2	24.1	27.2	27.2	30.2	30.2	27.2	24.1	27.2	24.1	21.1
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°	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7	2172.7
2.5°	1982.6	2036.9	2076.1	2103.3	2142.5	2217.9	2248.1	2302.4	2317.5	2326.6
5°	1704.9	1762.3	1846.8	1907.1	1976.5	2118.3	2227.0	2308.5	2344.7	2377.9
7.5°	1336.8	1412.2	1499.7	1578.2	1692.9	1867.9	2009.7	2178.7	2242.1	2275.3
10°	1044.1	1113.5	1210.1	1306.6	1466.5	1614.4	1816.6	1970.5	2058.0	2082.1
12.5°	881.1	962.6	1077.3	1195.0	1294.5	1463.5	1668.7	1892.0	1973.5	1988.6
15°	748.4	860.0	977.7	1098.4	1213.1	1360.9	1581.2	1852.8	1973.5	1988.6
17.5°	618.6	718.2	857.0	986.7	1119.5	1321.7	1596.3	1886.0	2006.7	2052.0
20°	491.9	588.4	697.1	860.0	1041.1	1255.3	1629.5	1997.6	2157.6	2205.9
22.5°	407.4	449.6	555.2	712.1	926.4	1210.1	1662.7	2172.7	2341.6	2359.7
25°	356.1	386.3	452.6	600.5	835.9	1179.9	1741.1	2374.8	2592.1	2592.1
27.5°	331.9	344.0	389.3	522.0	772.5	1152.7	1819.6	2598.1	2800.3	2842.6
30°	325.9	356.1	380.2	464.7	703.1	1077.3	1892.0	2773.2	2981.4	2984.4
32.5°	319.9	313.8	331.9	404.4	618.6	998.8	1952.4	2951.2	3114.1	3123.2
35°	250.5	262.5	292.7	356.1	555.2	941.5	1982.6	3047.8	3283.1	3292.2
37.5°	235.4	250.5	274.6	328.9	513.0	893.2	1991.6	3234.8	3461.2	3479.3
40°	229.3	241.4	259.5	304.8	479.8	832.9	2009.7	3428.0	3723.7	3699.6
42.5°	217.3	232.4	250.5	292.7	452.6	787.6	2012.7	3533.6	3862.5	3862.5
45°	214.2	223.3	244.4	292.7	422.5	748.4	1964.4	3639.2	4022.4	3974.2
47.5°	202.2	220.3	238.4	283.7	386.3	709.1	1907.1	3693.5	4043.6	4028.5
50°	199.2	217.3	247.4	268.6	365.1	691.0	1895.0	3829.3	4085.8	4082.8
52.5°	193.1	211.2	256.5	256.5	338.0	666.9	1952.4	3889.7	4094.9	4119.0
55°	184.1	211.2	238.4	235.4	313.8	636.7	2015.7	4046.6	4254.8	4248.8
57.5°	178.0	205.2	226.3	214.2	286.7	615.6	2109.3	4197.5	4447.9	4405.7
60°	169.0	205.2	202.2	199.2	265.5	597.5	2187.7	4227.6	4490.2	4517.3
62.5°	162.9	214.2	178.0	184.1	247.4	588.4	2154.6	4001.3	4432.8	4457.0
65°	156.9	184.1	162.9	169.0	241.4	570.3	2024.8	3729.7	4185.4	4291.0
67.5°	144.8	150.9	150.9	156.9	235.4	528.1	1759.3	3240.9	3808.2	3865.5
70°	132.8	135.8	135.8	144.8	229.3	479.8	1451.5	2803.3	3304.3	3412.9
72.5°	120.7	120.7	120.7	132.8	211.2	440.6	1195.0	2154.6	2746.0	2821.4
75°	105.6	105.6	105.6	117.7	190.1	401.3	941.5	1602.3	2021.8	2130.4
77.5°	93.5	93.5	90.5	105.6	166.0	325.9	679.0	1131.6	1424.3	1514.8
80°	78.5	75.4	75.4	84.5	129.8	235.4	437.5	799.7	992.8	1032.0
82.5°	63.4	60.4	57.3	63.4	93.5	147.9	271.6	558.3	636.7	612.6
85°	60.4	63.4	51.3	48.3	66.4	96.6	172.0	344.0	286.7	286.7
87.5°	24.1	21.1	21.1	18.1	33.2	36.2	75.4	63.4	48.3	48.3
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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