

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: P675906

Luminaire Tested: **CCW-SA-2D-835-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675906
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-835-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SLL distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

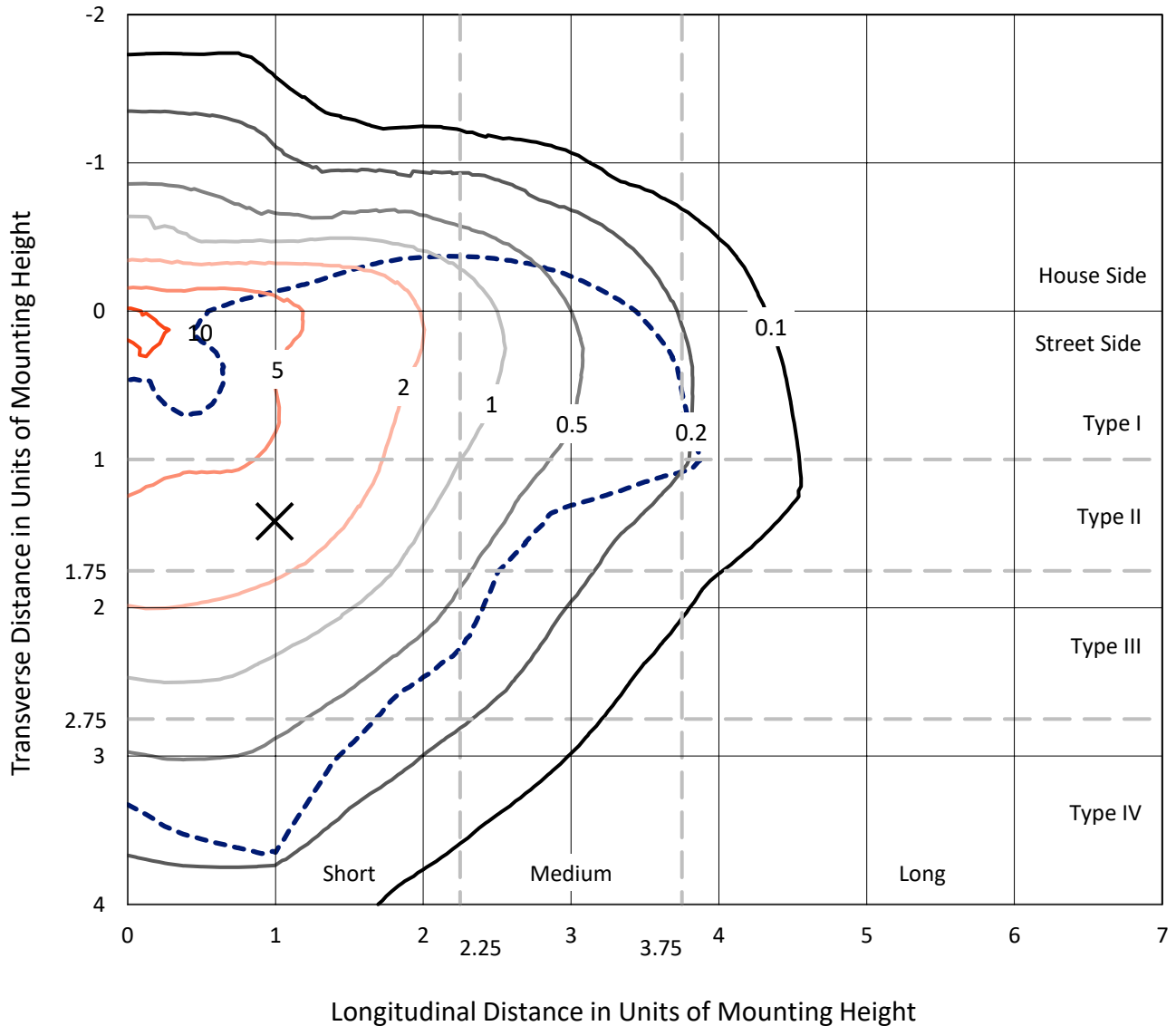
Lumens per Lamp: N/A
Luminaire Lumens: 7625.1 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (A_{in}): 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

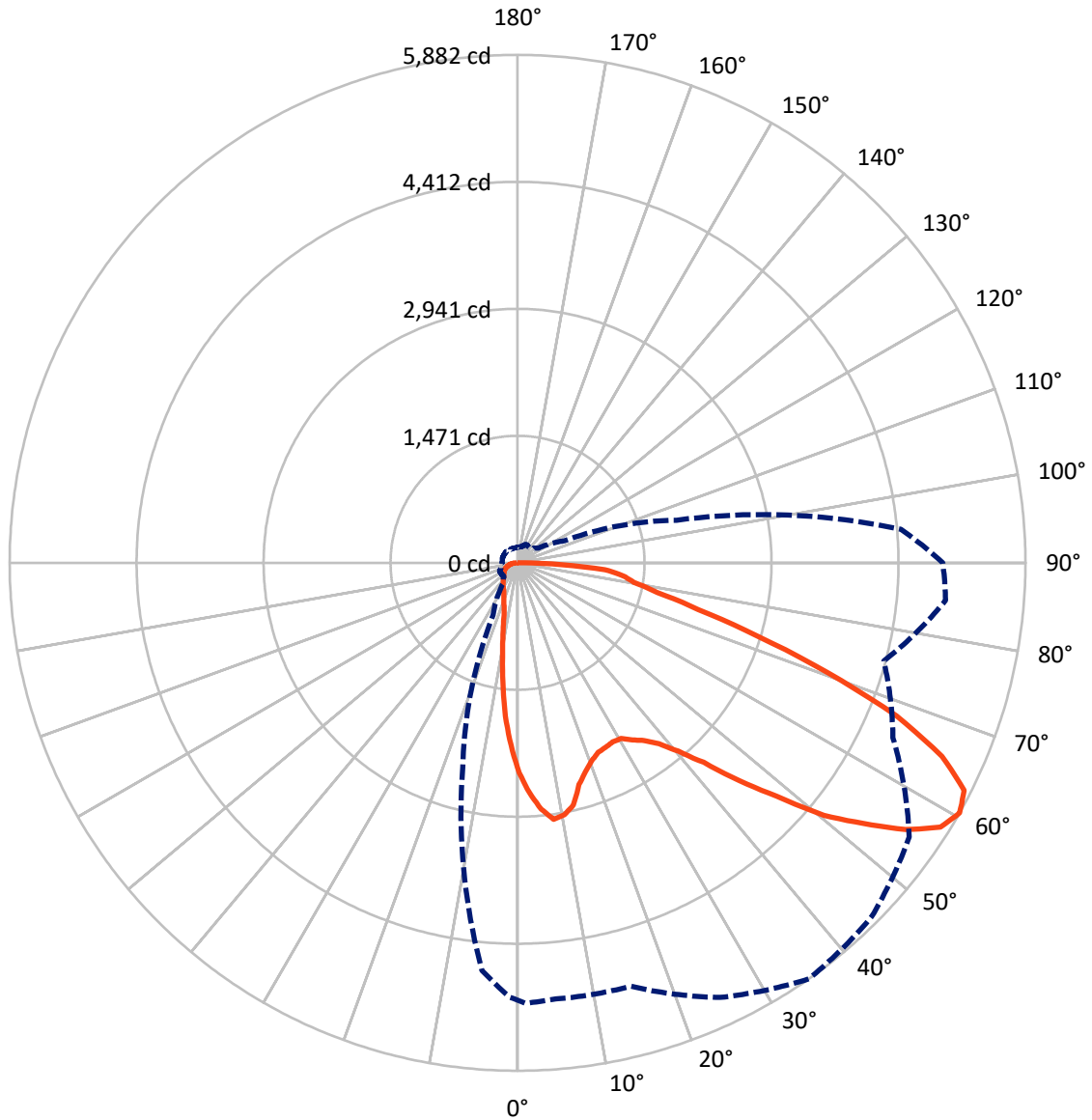
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.3 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	1451.2	0.0	1451.2
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	6173.9	0.0	6173.9
	% Fixture	81.0	0.0	81.0
Total	Lumens	7625.1	0.0	7625.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	2.5
10°-20°	399.5	5.2
20°-30°	584.5	7.7
30°-40°	823.5	10.8
40°-50°	1131.7	14.8
50°-60°	1542.4	20.2
60°-70°	1688.0	22.1
70°-80°	974.6	12.8
80°-90°	291.8	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°	7625.1	100.0
0°-180°	7625.1	100.0

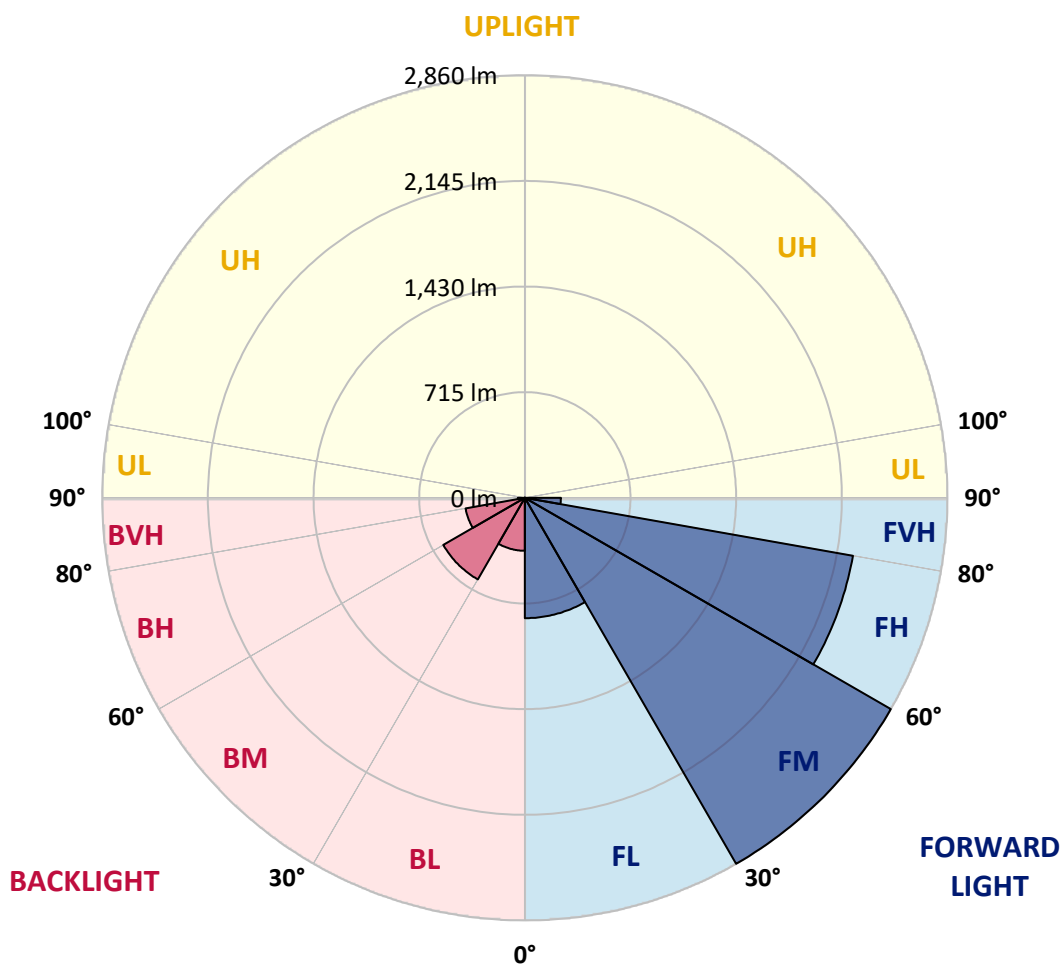


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	814.6	10.7			
FM (30°-60°)	2860.0	37.5			
FH (60°-80°)	2255.0	29.6			G2/5000
FVH (80°-90°)	244.3	3.2			G3/500
BL (0°-30°)	358.5	4.7	B1/500		
BM (30°-60°)	637.5	8.4	B1/1000		
BH (60°-80°)	407.6	5.3	B1/500		G1/500
BVH (80°-90°)	47.6	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-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4
2.5°	2607.9	2597.8	2607.9	2645.1	2655.3	2672.2	2672.2	2648.5	2604.5	2584.2	2550.4
5°	2665.4	2648.5	2733.1	2810.9	2871.8	2865.0	2807.5	2760.1	2672.2	2540.3	2415.1
7.5°	2550.4	2567.3	2628.2	2831.2	2973.2	3000.3	2909.0	2814.3	2624.8	2442.2	2273.1
10°	2333.9	2357.6	2489.5	2699.2	2922.5	2966.5	2909.0	2794.0	2567.3	2340.7	2144.5
12.5°	2229.1	2283.2	2361.0	2614.7	2773.7	2878.5	2851.5	2777.0	2523.4	2256.1	2066.7
15°	2229.1	2242.6	2357.6	2570.7	2662.0	2665.4	2675.6	2689.1	2536.9	2293.3	2039.7
17.5°	2300.1	2337.3	2435.4	2567.3	2584.2	2543.7	2543.7	2601.2	2563.9	2398.2	2137.8
20°	2472.6	2459.1	2587.6	2641.7	2550.4	2448.9	2438.8	2536.9	2594.4	2509.8	2317.0
22.5°	2645.1	2706.0	2810.9	2689.1	2520.0	2384.7	2371.1	2492.9	2685.7	2702.6	2523.4
25°	2905.6	2966.5	3020.6	2871.8	2516.6	2367.8	2377.9	2472.6	2797.3	2976.6	2868.4
27.5°	3186.3	3223.5	3301.3	3071.3	2597.8	2347.5	2357.6	2499.7	2902.2	3155.9	3139.0
30°	3345.3	3385.9	3369.0	3108.5	2651.9	2361.0	2333.9	2536.9	2844.7	3155.9	3314.9
32.5°	3500.9	3477.2	3467.1	3169.4	2719.5	2445.6	2377.9	2614.7	2878.5	3206.6	3541.5
35°	3690.3	3656.5	3629.4	3287.8	2831.2	2526.7	2496.3	2716.2	2952.9	3311.5	3724.2
37.5°	3900.0	3900.0	3768.1	3375.8	2963.1	2658.7	2624.8	2861.6	3071.3	3375.8	3974.5
40°	4147.0	4157.1	3923.7	3494.1	3111.9	2868.4	2858.2	3051.0	3186.3	3470.5	4214.6
42.5°	4329.6	4336.4	4059.0	3538.1	3284.4	3159.3	3203.2	3355.5	3318.2	3555.0	4231.5
45°	4454.8	4421.0	4153.7	3663.3	3473.8	3595.6	3609.1	3653.1	3490.8	3605.8	4299.2
47.5°	4515.7	4508.9	4194.3	3808.7	3873.0	4038.7	4116.5	4055.6	3649.7	3551.6	4299.2
50°	4576.5	4519.0	4231.5	4008.3	4262.0	4596.8	4579.9	4468.3	3869.6	3619.3	4234.9
52.5°	4617.1	4566.4	4305.9	4187.6	4634.0	5012.9	5080.5	4874.2	4126.7	3744.4	4265.4
55°	4762.6	4722.0	4529.2	4431.1	5063.6	5452.6	5462.8	5175.3	4397.3	3950.8	4464.9
57.5°	4938.5	4962.2	4837.0	4776.1	5391.7	5774.0	5736.7	5398.5	4627.3	4201.1	4694.9
60°	5063.6	5100.8	5070.4	5077.2	5554.1	5882.2	5797.6	5537.2	4796.4	4390.5	4975.7
62.5°	4996.0	5070.4	5195.5	5168.5	5560.9	5804.4	5686.0	5354.5	4816.7	4637.4	5188.8
65°	4809.9	4816.7	5060.2	5209.1	5256.4	5401.9	5246.3	4972.3	4607.0	4789.6	5158.3
67.5°	4333.0	4387.1	4607.0	4897.9	4698.3	4732.1	4718.6	4322.9	4289.0	4684.8	4924.9
70°	3825.6	3862.8	4103.0	4444.6	3967.7	3808.7	3839.2	3544.9	3683.6	4360.1	4454.8
72.5°	3162.7	3186.3	3460.3	3761.4	3182.9	2898.8	2969.9	2729.7	2925.9	3815.5	3758.0
75°	2388.1	2432.0	2645.1	3000.3	2344.1	2161.4	2232.5	2134.4	2317.0	3142.4	2915.7
77.5°	1698.0	1664.2	1928.0	2347.5	1762.3	1654.1	1660.8	1677.7	1873.9	2648.5	2093.8
80°	1156.8	1167.0	1403.7	1721.7	1383.4	1366.5	1349.6	1484.9	1572.9	2097.2	1522.1
82.5°	686.7	686.7	947.1	1224.5	1092.6	1231.2	1153.4	1275.2	1231.2	1542.4	997.8
85°	321.3	321.3	487.1	882.8	845.6	1014.8	862.5	964.0	909.9	1075.6	449.9
87.5°	54.1	47.4	98.1	433.0	348.4	395.8	155.6	514.1	571.6	750.9	111.6
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°	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4
2.5°	2513.2	2489.5	2442.2	2381.3	2330.6	2266.3	2246.0	2202.0	2141.1	2134.4	2107.3
5°	2367.8	2286.6	2185.1	2060.0	1975.4	1887.4	1813.0	1769.1	1718.3	1711.6	1698.0
7.5°	2208.8	2107.3	1938.2	1789.4	1643.9	1505.2	1437.6	1353.0	1295.5	1251.5	1231.2
10°	2060.0	1965.2	1755.5	1552.6	1424.0	1332.7	1251.5	1163.6	1092.6	1038.4	1018.1
12.5°	1961.9	1850.2	1623.6	1430.8	1336.1	1231.2	1139.9	1045.2	953.9	882.8	845.6
15°	1917.9	1813.0	1583.0	1369.9	1231.2	1085.8	980.9	886.2	774.6	723.9	706.9
17.5°	2022.7	1867.1	1569.5	1298.9	1102.7	937.0	808.4	706.9	625.8	575.0	554.7
20°	2158.0	1965.2	1593.2	1214.3	980.9	794.9	652.8	544.6	490.5	453.3	449.9
22.5°	2330.6	2110.7	1630.4	1153.4	845.6	639.3	510.8	446.5	409.3	405.9	399.1
25°	2638.4	2374.5	1691.3	1072.3	737.4	527.7	436.3	399.1	382.2	372.1	378.8
27.5°	2902.2	2547.0	1735.2	1021.5	693.4	497.2	422.8	382.2	365.3	361.9	365.3
30°	3057.8	2706.0	1721.7	926.8	605.5	473.6	449.9	436.3	402.5	375.5	375.5
32.5°	3199.9	2807.5	1718.3	842.2	517.5	395.8	375.5	365.3	385.6	399.1	389.0
35°	3396.0	2966.5	1708.2	794.9	480.3	365.3	331.5	304.4	290.9	284.1	294.3
37.5°	3605.8	3074.7	1681.1	788.1	460.0	348.4	321.3	294.3	280.7	274.0	270.6
40°	3835.8	3189.7	1650.7	754.3	449.9	338.3	311.2	287.5	270.6	260.5	257.1
42.5°	3984.6	3281.0	1620.2	737.4	429.6	331.5	301.0	280.7	263.8	250.3	250.3
45°	4069.2	3389.3	1589.8	720.5	405.9	334.9	301.0	274.0	253.7	246.9	240.2
47.5°	4106.4	3470.5	1579.6	693.4	385.6	321.3	294.3	267.2	246.9	233.4	230.0
50°	4204.5	3643.0	1616.8	673.1	361.9	307.8	311.2	263.8	243.5	226.6	223.2
52.5°	4262.0	3781.7	1698.0	642.7	345.0	290.9	304.4	257.1	233.4	216.5	216.5
55°	4471.7	4011.7	1786.0	619.0	324.7	267.2	280.7	243.5	216.5	206.3	206.3
57.5°	4738.9	4255.2	1860.4	608.9	311.2	250.3	250.3	236.8	206.3	192.8	189.4
60°	4924.9	4454.8	1904.4	602.1	297.7	233.4	223.2	236.8	196.2	182.7	179.3
62.5°	4945.2	4339.8	1860.4	598.7	294.3	216.5	203.0	226.6	186.0	172.5	165.7
65°	4816.7	4106.4	1738.6	585.2	290.9	199.6	189.4	196.2	172.5	162.4	155.6
67.5°	4559.6	3727.5	1562.7	578.4	287.5	186.0	172.5	169.1	159.0	148.8	142.1
70°	3960.9	3233.7	1356.4	548.0	280.7	175.9	155.6	152.2	142.1	135.3	131.9
72.5°	3325.0	2645.1	1119.6	507.4	267.2	159.0	142.1	135.3	131.9	121.8	118.4
75°	2547.0	2036.3	896.4	449.9	233.4	142.1	125.2	118.4	115.0	108.2	104.9
77.5°	1789.4	1515.4	663.0	365.3	196.2	128.5	111.6	104.9	101.5	91.3	91.3
80°	1214.3	1062.1	449.9	253.7	152.2	104.9	98.1	91.3	84.6	77.8	77.8
82.5°	754.3	744.2	324.7	165.7	111.6	84.6	77.8	77.8	67.7	60.9	60.9
85°	345.0	456.6	226.6	115.0	84.6	64.3	64.3	60.9	54.1	44.0	44.0
87.5°	108.2	152.2	118.4	50.7	47.4	37.2	37.2	33.8	33.8	27.1	27.1
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°	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4
2.5°	2134.4	2131.0	2131.0	2117.5	2151.3	2151.3	2171.6	2154.7	2164.8	2168.2	2195.3
5°	1694.6	1721.7	1742.0	1782.6	1806.3	1816.4	1816.4	1843.5	1833.3	1853.6	1894.2
7.5°	1241.4	1275.2	1336.1	1386.8	1427.4	1441.0	1437.6	1444.3	1454.5	1430.8	1437.6
10°	1004.6	980.9	1001.2	1048.6	1085.8	1129.8	1095.9	1092.6	1102.7	1092.6	1112.8
12.5°	838.9	811.8	794.9	794.9	822.0	842.2	832.1	849.0	886.2	896.4	920.0
15°	679.9	656.2	642.7	625.8	652.8	659.6	669.7	693.4	720.5	734.0	761.1
17.5°	544.6	544.6	544.6	531.1	541.2	551.4	554.7	585.2	588.6	602.1	612.2
20°	446.5	456.6	473.6	480.3	490.5	490.5	483.7	500.6	487.1	497.2	504.0
22.5°	402.5	416.0	422.8	426.2	439.7	443.1	426.2	429.6	433.0	422.8	426.2
25°	378.8	385.6	378.8	382.2	385.6	378.8	382.2	389.0	385.6	392.4	389.0
27.5°	368.7	361.9	358.5	355.2	355.2	348.4	351.8	351.8	358.5	361.9	361.9
30°	368.7	358.5	345.0	334.9	334.9	324.7	331.5	338.3	341.6	348.4	348.4
32.5°	378.8	358.5	334.9	324.7	314.6	307.8	314.6	324.7	338.3	341.6	345.0
35°	301.0	311.2	307.8	294.3	290.9	290.9	287.5	287.5	277.4	277.4	274.0
37.5°	270.6	267.2	274.0	277.4	280.7	270.6	270.6	257.1	253.7	257.1	257.1
40°	253.7	253.7	253.7	263.8	267.2	260.5	250.3	243.5	243.5	243.5	246.9
42.5°	246.9	240.2	236.8	243.5	253.7	246.9	236.8	233.4	233.4	236.8	236.8
45°	236.8	233.4	230.0	226.6	240.2	230.0	226.6	223.2	223.2	223.2	226.6
47.5°	226.6	223.2	216.5	216.5	219.9	216.5	213.1	213.1	213.1	219.9	219.9
50°	219.9	216.5	209.7	209.7	209.7	209.7	206.3	206.3	206.3	209.7	213.1
52.5°	209.7	206.3	203.0	199.6	199.6	199.6	199.6	199.6	199.6	203.0	206.3
55°	199.6	196.2	192.8	192.8	196.2	196.2	192.8	196.2	192.8	196.2	199.6
57.5°	189.4	186.0	182.7	186.0	189.4	186.0	186.0	186.0	186.0	186.0	189.4
60°	175.9	175.9	175.9	175.9	182.7	182.7	182.7	182.7	175.9	179.3	182.7
62.5°	169.1	165.7	165.7	169.1	172.5	172.5	175.9	172.5	169.1	172.5	172.5
65°	155.6	155.6	155.6	159.0	159.0	162.4	162.4	162.4	159.0	162.4	162.4
67.5°	145.4	145.4	145.4	145.4	152.2	152.2	152.2	152.2	148.8	148.8	152.2
70°	128.5	131.9	128.5	135.3	142.1	138.7	142.1	142.1	138.7	135.3	142.1
72.5°	118.4	118.4	118.4	118.4	128.5	128.5	128.5	131.9	128.5	125.2	128.5
75°	104.9	104.9	104.9	108.2	115.0	115.0	115.0	115.0	115.0	111.6	111.6
77.5°	91.3	94.7	91.3	94.7	101.5	98.1	101.5	104.9	101.5	98.1	98.1
80°	77.8	77.8	77.8	81.2	84.6	84.6	84.6	87.9	84.6	81.2	81.2
82.5°	60.9	60.9	64.3	64.3	67.7	67.7	67.7	71.0	67.7	64.3	64.3
85°	47.4	47.4	47.4	50.7	50.7	54.1	54.1	57.5	57.5	54.1	54.1
87.5°	30.4	27.1	30.4	30.4	33.8	33.8	30.4	27.1	30.4	27.1	23.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4	2435.4
2.5°	2222.3	2283.2	2327.2	2357.6	2401.6	2486.2	2520.0	2580.9	2597.8	2607.9
5°	1911.1	1975.4	2070.1	2137.8	2215.5	2374.5	2496.3	2587.6	2628.2	2665.4
7.5°	1498.5	1583.0	1681.1	1769.1	1897.6	2093.8	2252.8	2442.2	2513.2	2550.4
10°	1170.4	1248.1	1356.4	1464.6	1643.9	1809.6	2036.3	2208.8	2306.9	2333.9
12.5°	987.7	1079.0	1207.6	1339.5	1451.1	1640.5	1870.5	2120.8	2212.2	2229.1
15°	838.9	964.0	1095.9	1231.2	1359.8	1525.5	1772.4	2076.9	2212.2	2229.1
17.5°	693.4	805.0	960.6	1106.1	1254.9	1481.5	1789.4	2114.1	2249.4	2300.1
20°	551.4	659.6	781.4	964.0	1167.0	1407.1	1826.6	2239.2	2418.5	2472.6
22.5°	456.6	504.0	622.4	798.3	1038.4	1356.4	1863.8	2435.4	2624.8	2645.1
25°	399.1	433.0	507.4	673.1	937.0	1322.6	1951.7	2662.0	2905.6	2905.6
27.5°	372.1	385.6	436.3	585.2	865.9	1292.1	2039.7	2912.3	3139.0	3186.3
30°	365.3	399.1	426.2	520.9	788.1	1207.6	2120.8	3108.5	3341.9	3345.3
32.5°	358.5	351.8	372.1	453.3	693.4	1119.6	2188.5	3308.1	3490.8	3500.9
35°	280.7	294.3	328.1	399.1	622.4	1055.3	2222.3	3416.3	3680.2	3690.3
37.5°	263.8	280.7	307.8	368.7	575.0	1001.2	2232.5	3626.1	3879.7	3900.0
40°	257.1	270.6	290.9	341.6	537.8	933.6	2252.8	3842.5	4174.0	4147.0
42.5°	243.5	260.5	280.7	328.1	507.4	882.8	2256.1	3960.9	4329.6	4329.6
45°	240.2	250.3	274.0	328.1	473.6	838.9	2202.0	4079.3	4508.9	4454.8
47.5°	226.6	246.9	267.2	318.0	433.0	794.9	2137.8	4140.2	4532.6	4515.7
50°	223.2	243.5	277.4	301.0	409.3	774.6	2124.2	4292.4	4579.9	4576.5
52.5°	216.5	236.8	287.5	287.5	378.8	747.5	2188.5	4360.1	4590.1	4617.1
55°	206.3	236.8	267.2	263.8	351.8	713.7	2259.5	4536.0	4769.3	4762.6
57.5°	199.6	230.0	253.7	240.2	321.3	690.0	2364.4	4705.1	4985.8	4938.5
60°	189.4	230.0	226.6	223.2	297.7	669.7	2452.3	4738.9	5033.2	5063.6
62.5°	182.7	240.2	199.6	206.3	277.4	659.6	2415.1	4485.2	4968.9	4996.0
65°	175.9	206.3	182.7	189.4	270.6	639.3	2269.7	4180.8	4691.6	4809.9
67.5°	162.4	169.1	169.1	175.9	263.8	591.9	1972.0	3632.8	4268.7	4333.0
70°	148.8	152.2	152.2	162.4	257.1	537.8	1627.0	3142.4	3703.9	3825.6
72.5°	135.3	135.3	135.3	148.8	236.8	493.8	1339.5	2415.1	3078.1	3162.7
75°	118.4	118.4	118.4	131.9	213.1	449.9	1055.3	1796.1	2266.3	2388.1
77.5°	104.9	104.9	101.5	118.4	186.0	365.3	761.1	1268.4	1596.5	1698.0
80°	87.9	84.6	84.6	94.7	145.4	263.8	490.5	896.4	1112.8	1156.8
82.5°	71.0	67.7	64.3	71.0	104.9	165.7	304.4	625.8	713.7	686.7
85°	67.7	71.0	57.5	54.1	74.4	108.2	192.8	385.6	321.3	321.3
87.5°	27.1	23.7	23.7	20.3	37.2	40.6	84.6	71.0	54.1	54.1
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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