

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: P675860

Luminaire Tested: **CCW-SA-2B-750-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675860
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-750-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SLL distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

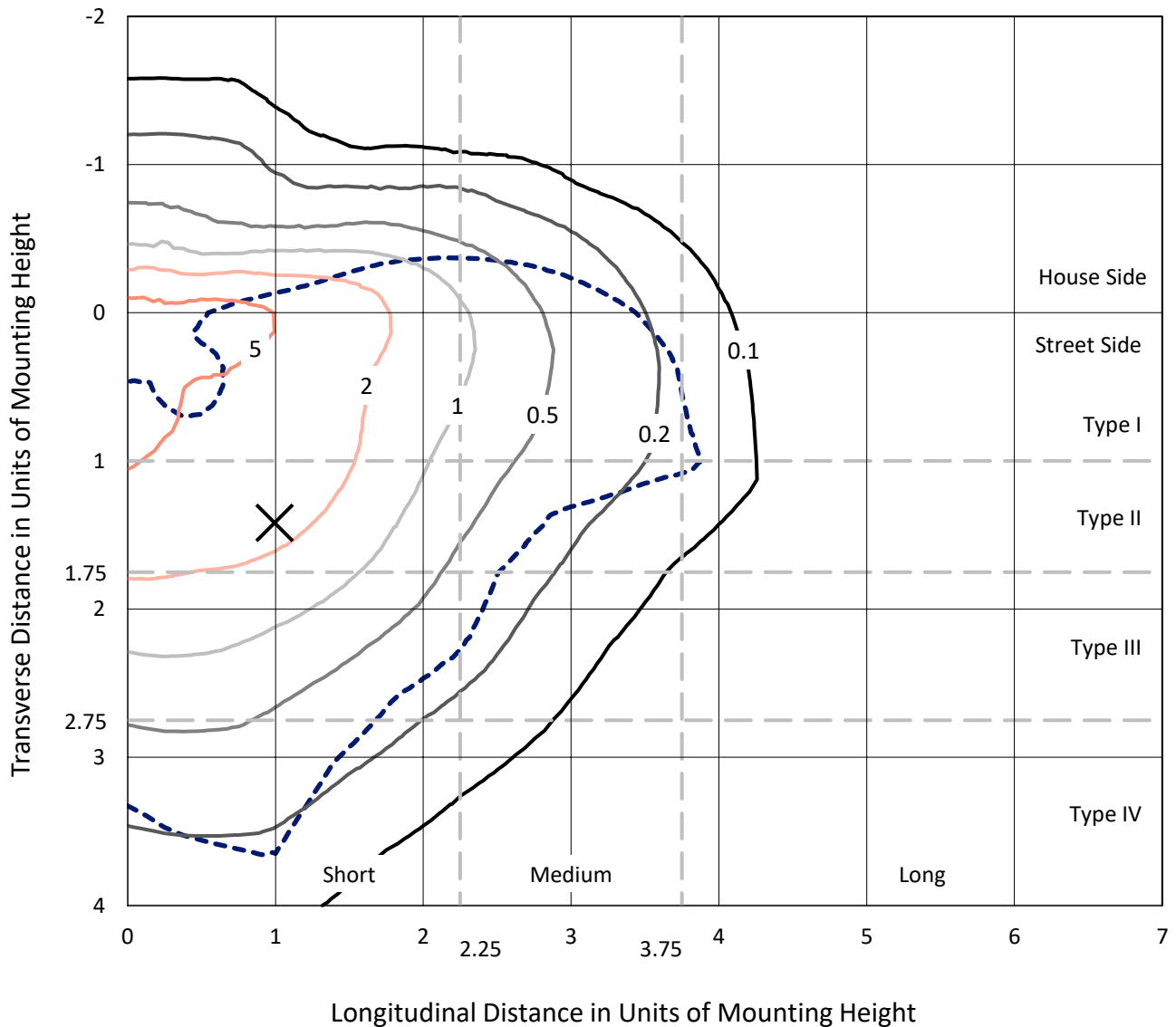
Lumens per Lamp: N/A
Luminaire Lumens: 5861.4 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
Input Voltage (V): 120
Input Current (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

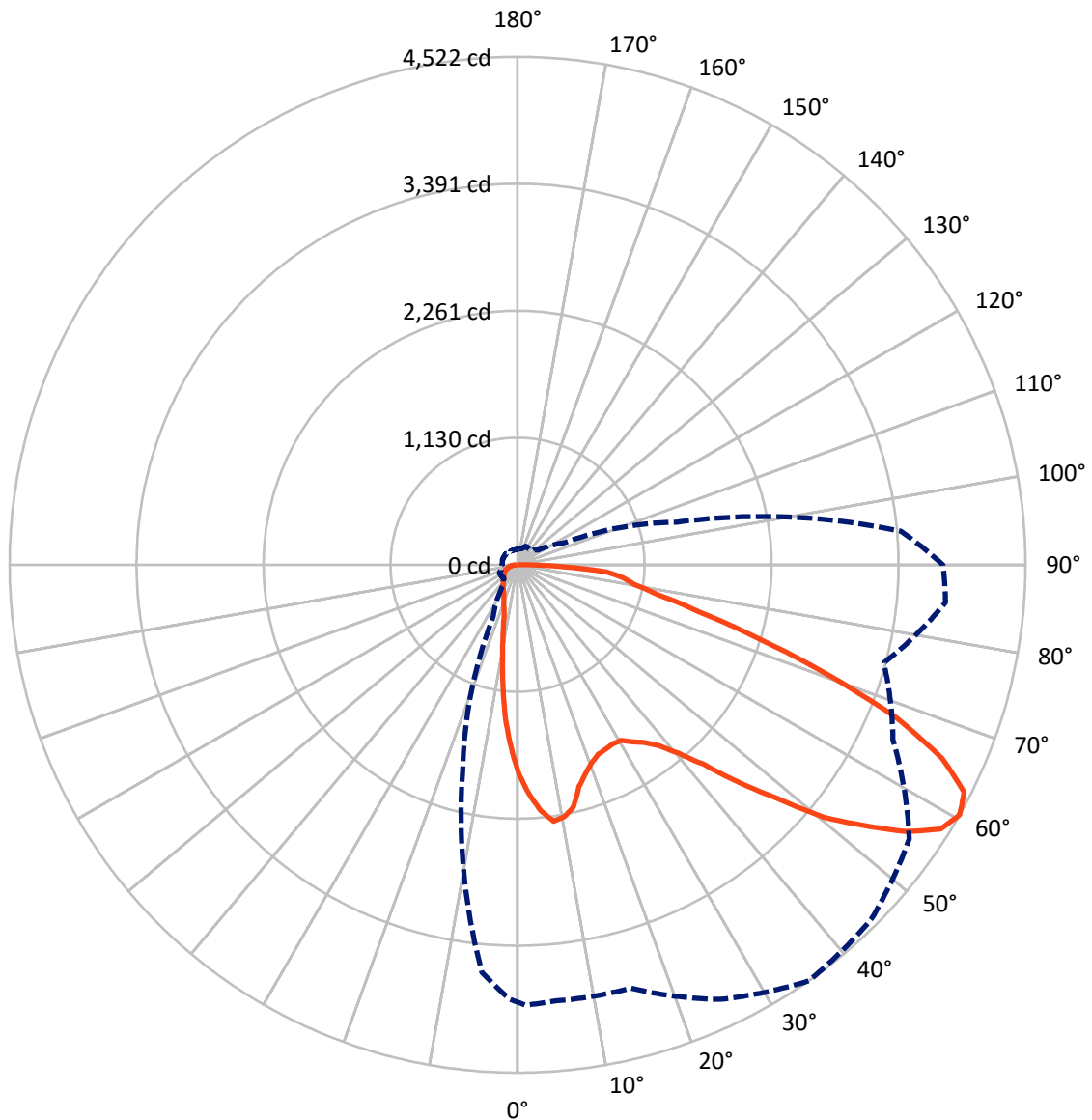
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.5 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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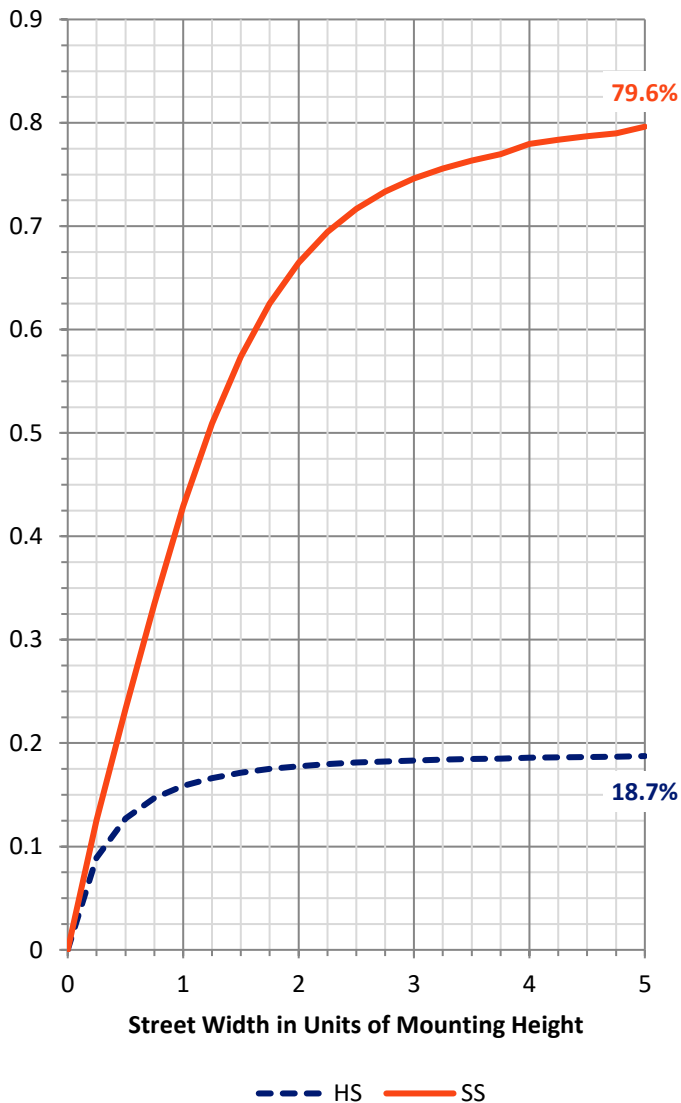
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1115.5	0.0	1115.5
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	4745.9	0.0	4745.9
	% Fixture	81.0	0.0	81.0
Total	Lumens	5861.4	0.0	5861.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	2.5
10°-20°	307.1	5.2
20°-30°	449.3	7.7
30°-40°	633.0	10.8
40°-50°	869.9	14.8
50°-60°	1185.6	20.2
60°-70°	1297.6	22.1
70°-80°	749.2	12.8
80°-90°	224.3	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°	5861.4	100.0
0°-180°	5861.4	100.0

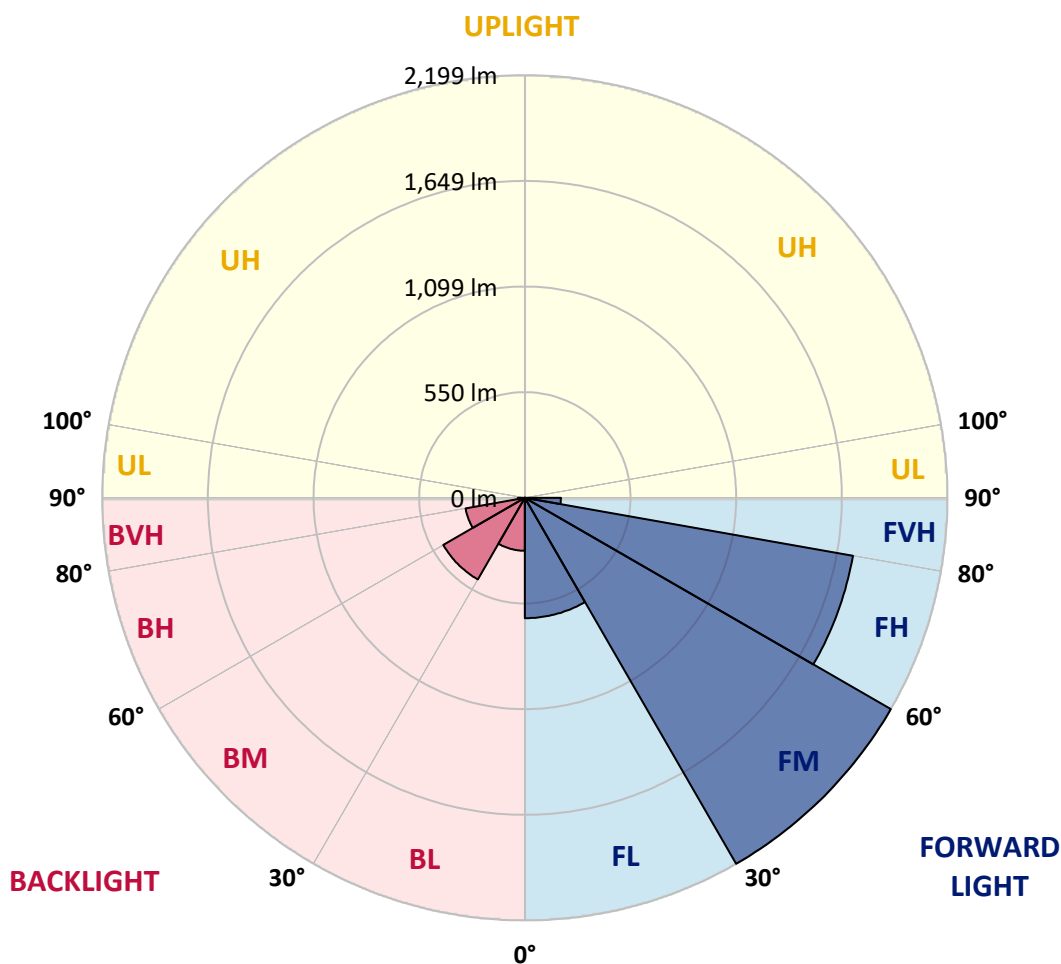


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.2	10.7			
FM (30°-60°)	2198.5	37.5			
FH (60°-80°)	1733.5	29.6			G1/1800
FVH (80°-90°)	187.8	3.2			G2/225
BL (0°-30°)	275.6	4.7	B1/500		
BM (30°-60°)	490.0	8.4	B1/1000		
BH (60°-80°)	313.3	5.3	B1/500		G1/500
BVH (80°-90°)	36.6	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1
2.5°	2004.7	1996.9	2004.7	2033.3	2041.1	2054.1	2054.1	2035.9	2002.1	1986.5	1960.5
5°	2048.9	2035.9	2100.9	2160.7	2207.5	2202.3	2158.1	2121.7	2054.1	1952.7	1856.5
7.5°	1960.5	1973.5	2020.3	2176.3	2285.6	2306.4	2236.1	2163.3	2017.7	1877.3	1747.3
10°	1794.1	1812.3	1913.7	2074.9	2246.5	2280.4	2236.1	2147.7	1973.5	1799.3	1648.5
12.5°	1713.5	1755.1	1814.9	2009.9	2132.1	2212.7	2191.9	2134.7	1939.7	1734.3	1588.7
15°	1713.5	1723.9	1812.3	1976.1	2046.3	2048.9	2056.7	2067.1	1950.1	1762.9	1567.9
17.5°	1768.1	1796.7	1872.1	1973.5	1986.5	1955.3	1955.3	1999.5	1970.9	1843.5	1643.3
20°	1900.7	1890.3	1989.1	2030.7	1960.5	1882.5	1874.7	1950.1	1994.3	1929.3	1781.1
22.5°	2033.3	2080.1	2160.7	2067.1	1937.1	1833.1	1822.7	1916.3	2064.5	2077.5	1939.7
25°	2233.5	2280.4	2322.0	2207.5	1934.5	1820.1	1827.9	1900.7	2150.3	2288.2	2204.9
27.5°	2449.4	2478.0	2537.8	2361.0	1996.9	1804.5	1812.3	1921.5	2230.9	2426.0	2413.0
30°	2571.6	2602.8	2589.8	2389.6	2038.5	1814.9	1794.1	1950.1	2186.7	2426.0	2548.2
32.5°	2691.2	2673.0	2665.2	2436.4	2090.5	1879.9	1827.9	2009.9	2212.7	2465.0	2722.4
35°	2836.8	2810.8	2790.0	2527.4	2176.3	1942.3	1918.9	2087.9	2270.0	2545.6	2862.8
37.5°	2998.0	2998.0	2896.6	2595.0	2277.8	2043.7	2017.7	2199.7	2361.0	2595.0	3055.2
40°	3187.8	3195.6	3016.2	2686.0	2392.2	2204.9	2197.1	2345.4	2449.4	2667.8	3239.8
42.5°	3328.2	3333.4	3120.2	2719.8	2524.8	2428.6	2462.4	2579.4	2550.8	2732.8	3252.8
45°	3424.4	3398.4	3193.0	2816.0	2670.4	2764.0	2774.4	2808.2	2683.4	2771.8	3304.8
47.5°	3471.2	3466.0	3224.2	2927.8	2977.2	3104.6	3164.4	3117.6	2805.6	2730.2	3304.8
50°	3518.0	3473.8	3252.8	3081.2	3276.2	3533.6	3520.6	3434.8	2974.6	2782.2	3255.4
52.5°	3549.2	3510.2	3310.0	3219.0	3562.2	3853.5	3905.5	3746.8	3172.2	2878.4	3278.8
55°	3661.0	3629.8	3481.6	3406.2	3892.5	4191.5	4199.3	3978.3	3380.2	3037.0	3432.2
57.5°	3796.3	3814.5	3718.2	3671.4	4144.7	4438.5	4409.9	4149.9	3557.0	3229.4	3609.0
60°	3892.5	3921.1	3897.7	3902.9	4269.5	4521.7	4456.7	4256.5	3687.0	3375.0	3824.9
62.5°	3840.5	3897.7	3993.9	3973.1	4274.7	4461.9	4370.9	4116.1	3702.6	3564.8	3988.7
65°	3697.4	3702.6	3889.9	4004.3	4040.7	4152.5	4032.9	3822.3	3541.4	3681.8	3965.3
67.5°	3330.8	3372.4	3541.4	3765.0	3611.6	3637.6	3627.2	3323.0	3297.0	3601.2	3785.9
70°	2940.8	2969.4	3154.0	3416.6	3050.0	2927.8	2951.2	2725.0	2831.6	3351.6	3424.4
72.5°	2431.2	2449.4	2660.0	2891.4	2446.8	2228.3	2283.0	2098.3	2249.1	2933.0	2888.8
75°	1835.7	1869.5	2033.3	2306.4	1801.9	1661.5	1716.1	1640.7	1781.1	2415.6	2241.3
77.5°	1305.3	1279.3	1482.1	1804.5	1354.7	1271.5	1276.7	1289.7	1440.5	2035.9	1609.5
80°	889.3	897.1	1079.1	1323.5	1063.5	1050.5	1037.5	1141.5	1209.1	1612.1	1170.1
82.5°	527.8	527.8	728.0	941.3	839.9	946.5	886.7	980.3	946.5	1185.7	767.1
85°	247.0	247.0	374.4	678.6	650.0	780.1	663.0	741.0	699.4	826.9	345.8
87.5°	41.6	36.4	75.4	332.8	267.8	304.2	119.6	395.2	439.4	577.2	85.8
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°	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1
2.5°	1931.9	1913.7	1877.3	1830.5	1791.5	1742.1	1726.5	1692.7	1645.9	1640.7	1619.9
5°	1820.1	1757.7	1679.7	1583.5	1518.5	1450.9	1393.7	1359.9	1320.9	1315.7	1305.3
7.5°	1697.9	1619.9	1489.9	1375.5	1263.7	1157.1	1105.1	1040.1	995.9	962.1	946.5
10°	1583.5	1510.7	1349.5	1193.5	1094.7	1024.5	962.1	894.5	839.9	798.3	782.7
12.5°	1508.1	1422.3	1248.1	1099.9	1027.1	946.5	876.3	803.5	733.2	678.6	650.0
15°	1474.3	1393.7	1216.9	1053.1	946.5	834.7	754.1	681.2	595.4	556.4	543.4
17.5°	1554.9	1435.3	1206.5	998.5	847.7	720.2	621.4	543.4	481.0	442.0	426.4
20°	1658.9	1510.7	1224.7	933.5	754.1	611.0	501.8	418.6	377.0	348.4	345.8
22.5°	1791.5	1622.5	1253.3	886.7	650.0	491.4	392.6	343.2	314.6	312.0	306.8
25°	2028.1	1825.3	1300.1	824.3	566.8	405.6	335.4	306.8	293.8	286.0	291.2
27.5°	2230.9	1957.9	1333.9	785.3	533.0	382.2	325.0	293.8	280.8	278.2	280.8
30°	2350.6	2080.1	1323.5	712.4	465.4	364.0	345.8	335.4	309.4	288.6	288.6
32.5°	2459.8	2158.1	1320.9	647.4	397.8	304.2	288.6	280.8	296.4	306.8	299.0
35°	2610.6	2280.4	1313.1	611.0	369.2	280.8	254.8	234.0	223.6	218.4	226.2
37.5°	2771.8	2363.6	1292.3	605.8	353.6	267.8	247.0	226.2	215.8	210.6	208.0
40°	2948.6	2452.0	1268.9	579.8	345.8	260.0	239.2	221.0	208.0	200.2	197.6
42.5°	3063.0	2522.2	1245.5	566.8	330.2	254.8	231.4	215.8	202.8	192.4	192.4
45°	3128.0	2605.4	1222.1	553.8	312.0	257.4	231.4	210.6	195.0	189.8	184.6
47.5°	3156.6	2667.8	1214.3	533.0	296.4	247.0	226.2	205.4	189.8	179.4	176.8
50°	3232.0	2800.4	1242.9	517.4	278.2	236.6	239.2	202.8	187.2	174.2	171.6
52.5°	3276.2	2907.0	1305.3	494.0	265.2	223.6	234.0	197.6	179.4	166.4	166.4
55°	3437.4	3083.8	1372.9	475.8	249.6	205.4	215.8	187.2	166.4	158.6	158.6
57.5°	3642.8	3271.0	1430.1	468.0	239.2	192.4	192.4	182.0	158.6	148.2	145.6
60°	3785.9	3424.4	1463.9	462.8	228.8	179.4	171.6	182.0	150.8	140.4	137.8
62.5°	3801.5	3336.0	1430.1	460.2	226.2	166.4	156.0	174.2	143.0	132.6	127.4
65°	3702.6	3156.6	1336.5	449.8	223.6	153.4	145.6	150.8	132.6	124.8	119.6
67.5°	3505.0	2865.4	1201.3	444.6	221.0	143.0	132.6	130.0	122.2	114.4	109.2
70°	3044.8	2485.8	1042.7	421.2	215.8	135.2	119.6	117.0	109.2	104.0	101.4
72.5°	2556.0	2033.3	860.7	390.0	205.4	122.2	109.2	104.0	101.4	93.6	91.0
75°	1957.9	1565.3	689.0	345.8	179.4	109.2	96.2	91.0	88.4	83.2	80.6
77.5°	1375.5	1164.9	509.6	280.8	150.8	98.8	85.8	80.6	78.0	70.2	70.2
80°	933.5	816.5	345.8	195.0	117.0	80.6	75.4	70.2	65.0	59.8	59.8
82.5°	579.8	572.0	249.6	127.4	85.8	65.0	59.8	59.8	52.0	46.8	46.8
85°	265.2	351.0	174.2	88.4	65.0	49.4	49.4	46.8	41.6	33.8	33.8
87.5°	83.2	117.0	91.0	39.0	36.4	28.6	28.6	26.0	26.0	20.8	20.8
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°	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1
2.5°	1640.7	1638.1	1638.1	1627.7	1653.7	1653.7	1669.3	1656.3	1664.1	1666.7	1687.5
5°	1302.7	1323.5	1339.1	1370.3	1388.5	1396.3	1396.3	1417.1	1409.3	1424.9	1456.1
7.5°	954.3	980.3	1027.1	1066.1	1097.3	1107.7	1105.1	1110.3	1118.1	1099.9	1105.1
10°	772.3	754.1	769.7	806.1	834.7	868.5	842.5	839.9	847.7	839.9	855.5
12.5°	644.8	624.0	611.0	611.0	631.8	647.4	639.6	652.6	681.2	689.0	707.2
15°	522.6	504.4	494.0	481.0	501.8	507.0	514.8	533.0	553.8	564.2	585.0
17.5°	418.6	418.6	418.6	408.2	416.0	423.8	426.4	449.8	452.4	462.8	470.6
20°	343.2	351.0	364.0	369.2	377.0	377.0	371.8	384.8	374.4	382.2	387.4
22.5°	309.4	319.8	325.0	327.6	338.0	340.6	327.6	330.2	332.8	325.0	327.6
25°	291.2	296.4	291.2	293.8	296.4	291.2	293.8	299.0	296.4	301.6	299.0
27.5°	283.4	278.2	275.6	273.0	273.0	267.8	270.4	270.4	275.6	278.2	278.2
30°	283.4	275.6	265.2	257.4	257.4	249.6	254.8	260.0	262.6	267.8	267.8
32.5°	291.2	275.6	257.4	249.6	241.8	236.6	241.8	249.6	260.0	262.6	265.2
35°	231.4	239.2	236.6	226.2	223.6	223.6	221.0	221.0	213.2	213.2	210.6
37.5°	208.0	205.4	210.6	213.2	215.8	208.0	208.0	197.6	195.0	197.6	197.6
40°	195.0	195.0	195.0	202.8	205.4	200.2	192.4	187.2	187.2	187.2	189.8
42.5°	189.8	184.6	182.0	187.2	195.0	189.8	182.0	179.4	179.4	182.0	182.0
45°	182.0	179.4	176.8	174.2	184.6	176.8	174.2	171.6	171.6	171.6	174.2
47.5°	174.2	171.6	166.4	166.4	169.0	166.4	163.8	163.8	163.8	169.0	169.0
50°	169.0	166.4	161.2	161.2	161.2	161.2	158.6	158.6	158.6	161.2	163.8
52.5°	161.2	158.6	156.0	153.4	153.4	153.4	153.4	153.4	153.4	156.0	158.6
55°	153.4	150.8	148.2	148.2	150.8	150.8	148.2	150.8	148.2	150.8	153.4
57.5°	145.6	143.0	140.4	143.0	145.6	143.0	143.0	143.0	143.0	143.0	145.6
60°	135.2	135.2	135.2	135.2	140.4	140.4	140.4	140.4	135.2	137.8	140.4
62.5°	130.0	127.4	127.4	130.0	132.6	132.6	135.2	132.6	130.0	132.6	132.6
65°	119.6	119.6	119.6	122.2	122.2	124.8	124.8	124.8	122.2	124.8	124.8
67.5°	111.8	111.8	111.8	111.8	117.0	117.0	117.0	117.0	114.4	114.4	117.0
70°	98.8	101.4	98.8	104.0	109.2	106.6	109.2	109.2	106.6	104.0	109.2
72.5°	91.0	91.0	91.0	91.0	98.8	98.8	98.8	101.4	98.8	96.2	98.8
75°	80.6	80.6	80.6	83.2	88.4	88.4	88.4	88.4	88.4	85.8	85.8
77.5°	70.2	72.8	70.2	72.8	78.0	75.4	78.0	80.6	78.0	75.4	75.4
80°	59.8	59.8	59.8	62.4	65.0	65.0	65.0	67.6	65.0	62.4	62.4
82.5°	46.8	46.8	49.4	49.4	52.0	52.0	52.0	54.6	52.0	49.4	49.4
85°	36.4	36.4	36.4	39.0	39.0	41.6	41.6	44.2	44.2	41.6	41.6
87.5°	23.4	20.8	23.4	23.4	26.0	26.0	23.4	20.8	23.4	20.8	18.2
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°	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1
2.5°	1708.3	1755.1	1788.9	1812.3	1846.1	1911.1	1937.1	1983.9	1996.9	2004.7
5°	1469.1	1518.5	1591.3	1643.3	1703.1	1825.3	1918.9	1989.1	2020.3	2048.9
7.5°	1151.9	1216.9	1292.3	1359.9	1458.7	1609.5	1731.7	1877.3	1931.9	1960.5
10°	899.7	959.5	1042.7	1125.9	1263.7	1391.1	1565.3	1697.9	1773.3	1794.1
12.5°	759.3	829.5	928.3	1029.7	1115.5	1261.1	1437.9	1630.3	1700.5	1713.5
15°	644.8	741.0	842.5	946.5	1045.3	1172.7	1362.5	1596.5	1700.5	1713.5
17.5°	533.0	618.8	738.4	850.3	964.7	1138.9	1375.5	1625.1	1729.1	1768.1
20°	423.8	507.0	600.6	741.0	897.1	1081.7	1404.1	1721.3	1859.1	1900.7
22.5°	351.0	387.4	478.4	613.6	798.3	1042.7	1432.7	1872.1	2017.7	2033.3
25°	306.8	332.8	390.0	517.4	720.2	1016.7	1500.3	2046.3	2233.5	2233.5
27.5°	286.0	296.4	335.4	449.8	665.6	993.3	1567.9	2238.7	2413.0	2449.4
30°	280.8	306.8	327.6	400.4	605.8	928.3	1630.3	2389.6	2569.0	2571.6
32.5°	275.6	270.4	286.0	348.4	533.0	860.7	1682.3	2543.0	2683.4	2691.2
35°	215.8	226.2	252.2	306.8	478.4	811.3	1708.3	2626.2	2829.0	2836.8
37.5°	202.8	215.8	236.6	283.4	442.0	769.7	1716.1	2787.4	2982.4	2998.0
40°	197.6	208.0	223.6	262.6	413.4	717.6	1731.7	2953.8	3208.6	3187.8
42.5°	187.2	200.2	215.8	252.2	390.0	678.6	1734.3	3044.8	3328.2	3328.2
45°	184.6	192.4	210.6	252.2	364.0	644.8	1692.7	3135.8	3466.0	3424.4
47.5°	174.2	189.8	205.4	244.4	332.8	611.0	1643.3	3182.6	3484.2	3471.2
50°	171.6	187.2	213.2	231.4	314.6	595.4	1632.9	3299.6	3520.6	3518.0
52.5°	166.4	182.0	221.0	221.0	291.2	574.6	1682.3	3351.6	3528.4	3549.2
55°	158.6	182.0	205.4	202.8	270.4	548.6	1736.9	3486.8	3666.2	3661.0
57.5°	153.4	176.8	195.0	184.6	247.0	530.4	1817.5	3616.8	3832.7	3796.3
60°	145.6	176.8	174.2	171.6	228.8	514.8	1885.1	3642.8	3869.1	3892.5
62.5°	140.4	184.6	153.4	158.6	213.2	507.0	1856.5	3447.8	3819.7	3840.5
65°	135.2	158.6	140.4	145.6	208.0	491.4	1744.7	3213.8	3606.4	3697.4
67.5°	124.8	130.0	130.0	135.2	202.8	455.0	1515.9	2792.6	3281.4	3330.8
70°	114.4	117.0	117.0	124.8	197.6	413.4	1250.7	2415.6	2847.2	2940.8
72.5°	104.0	104.0	104.0	114.4	182.0	379.6	1029.7	1856.5	2366.2	2431.2
75°	91.0	91.0	91.0	101.4	163.8	345.8	811.3	1380.7	1742.1	1835.7
77.5°	80.6	80.6	78.0	91.0	143.0	280.8	585.0	975.1	1227.3	1305.3
80°	67.6	65.0	65.0	72.8	111.8	202.8	377.0	689.0	855.5	889.3
82.5°	54.6	52.0	49.4	54.6	80.6	127.4	234.0	481.0	548.6	527.8
85°	52.0	54.6	44.2	41.6	57.2	83.2	148.2	296.4	247.0	247.0
87.5°	20.8	18.2	18.2	15.6	28.6	31.2	65.0	54.6	41.6	41.6
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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