

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: P675927

Luminaire Tested: **CCW-SA-2C-850-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675927
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-850-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
SLL distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

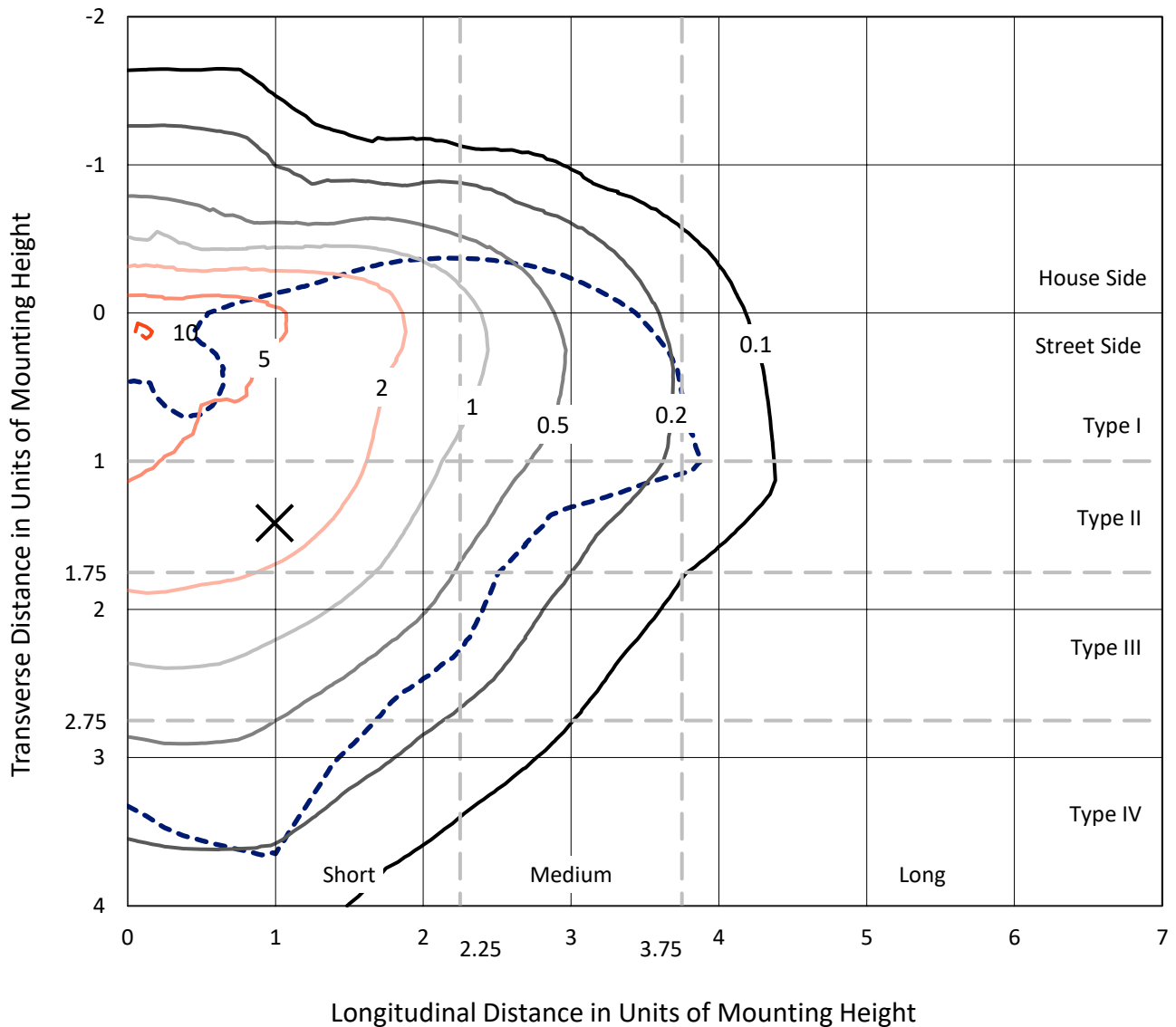
Lumens per Lamp: N/A
Luminaire Lumens: 6546.2 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1
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

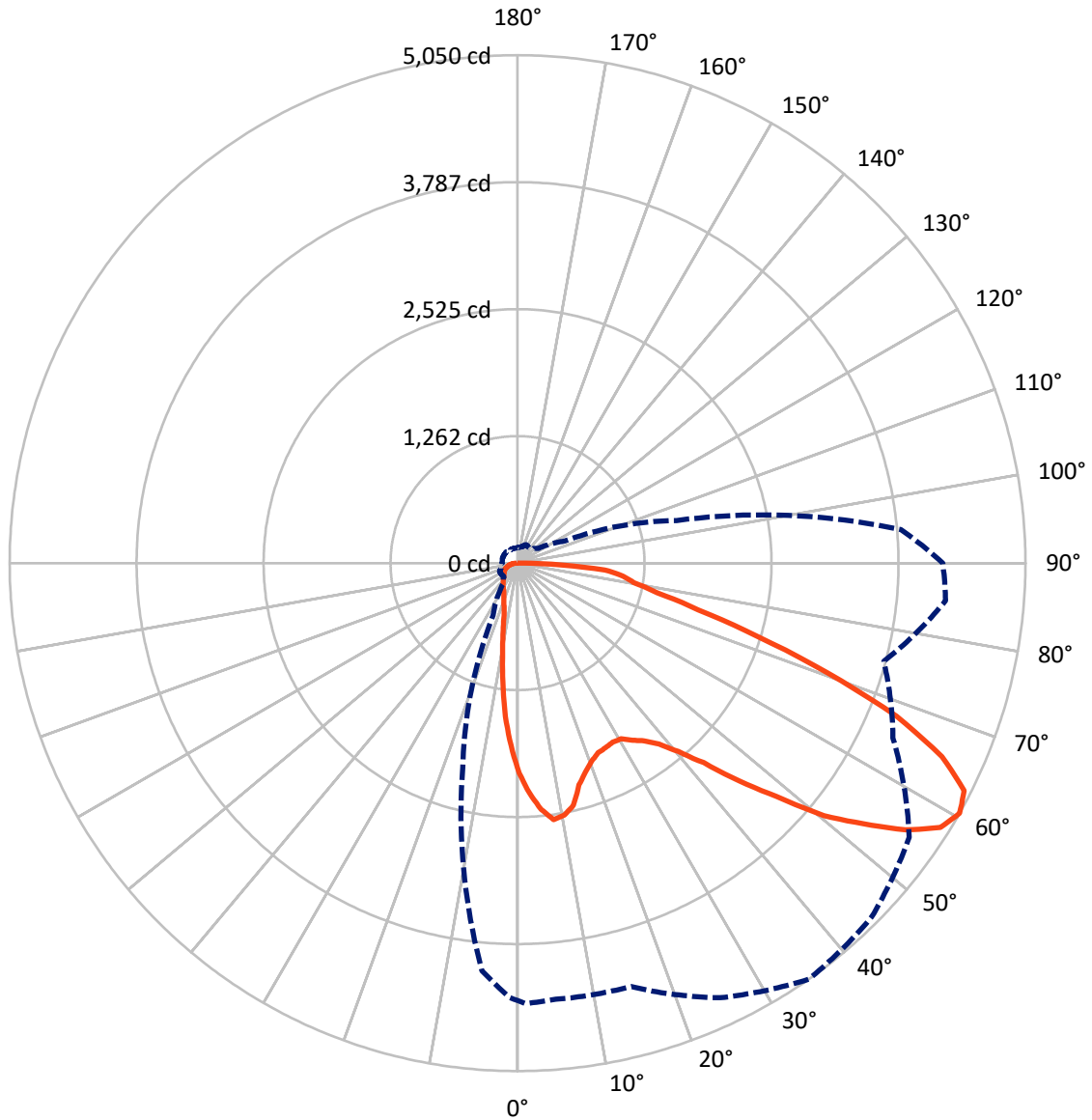
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.6 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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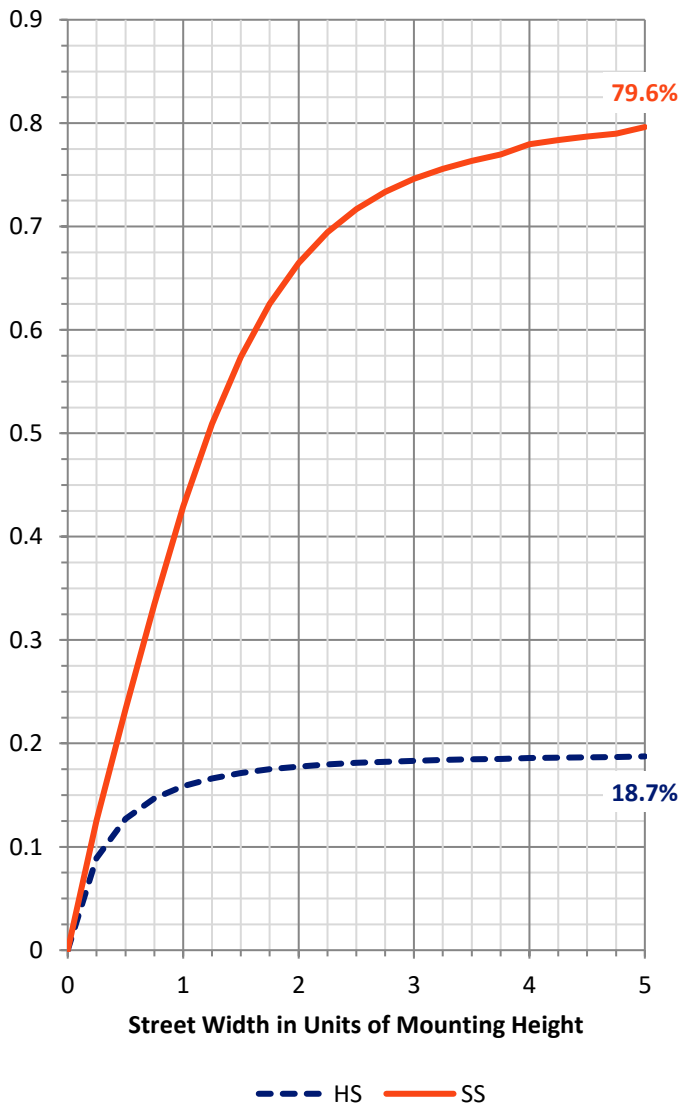
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1245.8	0.0	1245.8
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	5300.4	0.0	5300.4
	% Fixture	81.0	0.0	81.0
Total	Lumens	6546.2	0.0	6546.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	2.5
10°-20°	342.9	5.2
20°-30°	501.8	7.7
30°-40°	707.0	10.8
40°-50°	971.6	14.8
50°-60°	1324.1	20.2
60°-70°	1449.2	22.1
70°-80°	836.7	12.8
80°-90°	250.6	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°	6546.2	100.0
0°-180°	6546.2	100.0



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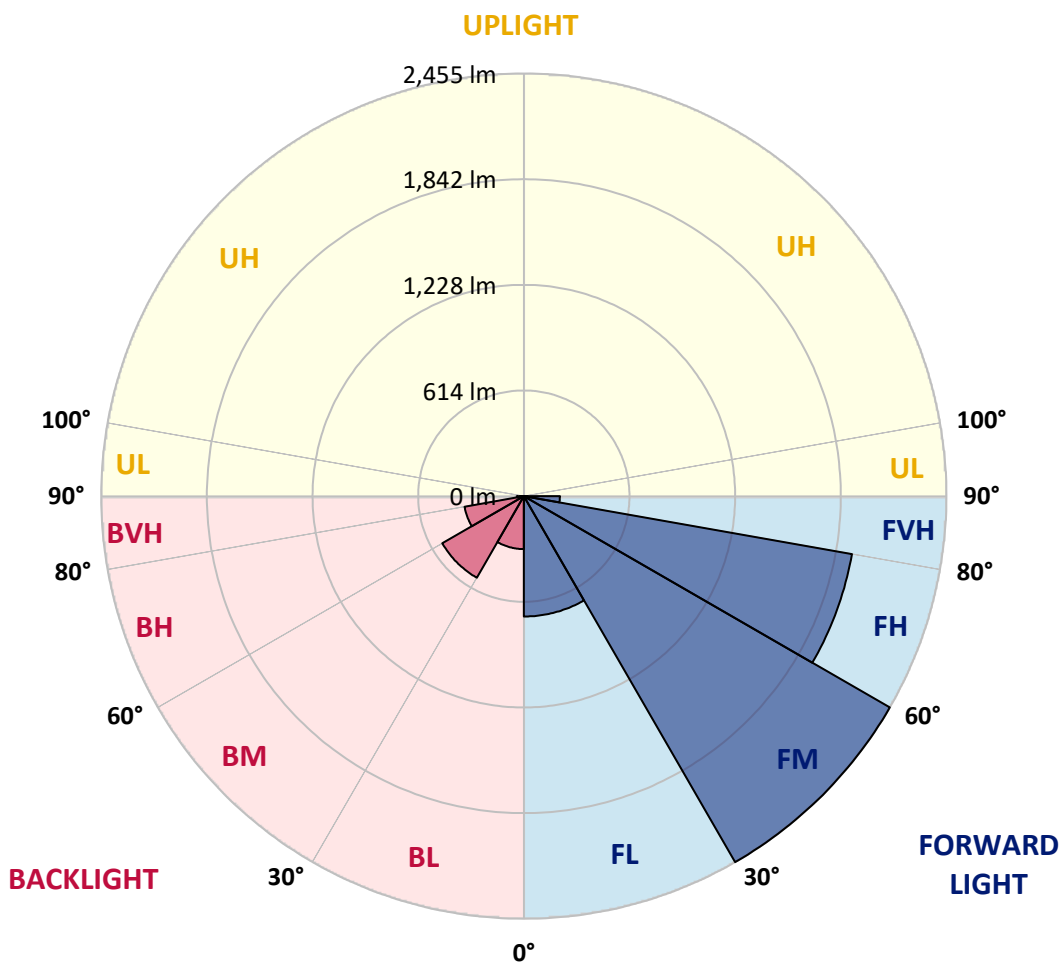
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.3	10.7			
FM (30°-60°)	2455.4	37.5			
FH (60°-80°)	1936.0	29.6			G2/5000
FVH (80°-90°)	209.7	3.2			G2/225
BL (0°-30°)	307.8	4.7	B1/500		
BM (30°-60°)	547.3	8.4	B1/1000		
BH (60°-80°)	349.9	5.3	B1/500		G1/500
BVH (80°-90°)	40.8	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°	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8
2.5°	2238.9	2230.2	2238.9	2270.9	2279.6	2294.1	2294.1	2273.8	2236.0	2218.6	2189.6
5°	2288.3	2273.8	2346.4	2413.2	2465.4	2459.6	2410.3	2369.6	2294.1	2180.9	2073.4
7.5°	2189.6	2204.1	2256.4	2430.6	2552.6	2575.8	2497.4	2416.1	2253.5	2096.6	1951.4
10°	2003.7	2024.0	2137.3	2317.3	2509.0	2546.7	2497.4	2398.6	2204.1	2009.5	1841.1
12.5°	1913.7	1960.2	2026.9	2244.7	2381.2	2471.2	2448.0	2384.1	2166.3	1936.9	1774.3
15°	1913.7	1925.3	2024.0	2207.0	2285.4	2288.3	2297.0	2308.6	2177.9	1968.9	1751.1
17.5°	1974.7	2006.6	2090.8	2204.1	2218.6	2183.8	2183.8	2233.1	2201.2	2058.9	1835.3
20°	2122.8	2111.2	2221.5	2268.0	2189.6	2102.4	2093.7	2177.9	2227.3	2154.7	1989.2
22.5°	2270.9	2323.1	2413.2	2308.6	2163.4	2047.3	2035.7	2140.2	2305.7	2320.2	2166.3
25°	2494.5	2546.7	2593.2	2465.4	2160.5	2032.8	2041.5	2122.8	2401.6	2555.5	2462.5
27.5°	2735.5	2767.4	2834.2	2636.8	2230.2	2015.3	2024.0	2146.0	2491.6	2709.4	2694.8
30°	2872.0	2906.8	2892.3	2668.7	2276.7	2026.9	2003.7	2177.9	2442.2	2709.4	2845.9
32.5°	3005.6	2985.2	2976.5	2721.0	2334.8	2099.5	2041.5	2244.7	2471.2	2752.9	3040.4
35°	3168.2	3139.2	3115.9	2822.6	2430.6	2169.2	2143.1	2331.9	2535.1	2842.9	3197.2
37.5°	3348.2	3348.2	3235.0	2898.1	2543.8	2282.5	2253.5	2456.7	2636.8	2898.1	3412.1
40°	3560.2	3568.9	3368.6	2999.8	2671.6	2462.5	2453.8	2619.3	2735.5	2979.4	3618.3
42.5°	3717.0	3722.8	3484.7	3037.5	2819.7	2712.3	2750.0	2880.7	2848.8	3052.0	3632.8
45°	3824.5	3795.4	3566.0	3145.0	2982.3	3086.9	3098.5	3136.2	2996.9	3095.6	3690.9
47.5°	3876.7	3870.9	3600.9	3269.8	3325.0	3467.3	3534.1	3481.8	3133.3	3049.1	3690.9
50°	3929.0	3879.7	3632.8	3441.2	3659.0	3946.4	3931.9	3836.1	3322.1	3107.2	3635.7
52.5°	3963.9	3920.3	3696.7	3595.1	3978.4	4303.6	4361.7	4184.6	3542.8	3214.7	3661.9
55°	4088.7	4053.9	3888.4	3804.2	4347.2	4681.1	4689.8	4443.0	3775.1	3391.8	3833.2
57.5°	4239.7	4260.1	4152.6	4100.4	4628.9	4957.0	4925.1	4634.7	3972.6	3606.7	4030.7
60°	4347.2	4379.1	4353.0	4358.8	4768.3	5049.9	4977.3	4753.7	4117.8	3769.3	4271.7
62.5°	4289.1	4353.0	4460.4	4437.2	4774.1	4983.1	4881.5	4596.9	4135.2	3981.3	4454.6
65°	4129.4	4135.2	4344.3	4472.1	4512.7	4637.6	4504.0	4268.8	3955.2	4112.0	4428.5
67.5°	3719.9	3766.4	3955.2	4204.9	4033.6	4062.6	4051.0	3711.2	3682.2	4021.9	4228.1
70°	3284.3	3316.3	3522.5	3815.8	3406.3	3269.8	3296.0	3043.3	3162.4	3743.2	3824.5
72.5°	2715.2	2735.5	2970.7	3229.2	2732.6	2488.7	2549.7	2343.5	2511.9	3275.6	3226.3
75°	2050.2	2087.9	2270.9	2575.8	2012.4	1855.6	1916.6	1832.4	1989.2	2697.8	2503.2
77.5°	1457.8	1428.7	1655.2	2015.3	1512.9	1420.0	1425.8	1440.4	1608.8	2273.8	1797.5
80°	993.1	1001.9	1205.1	1478.1	1187.7	1173.2	1158.7	1274.8	1350.3	1800.4	1306.8
82.5°	589.5	589.5	813.1	1051.2	938.0	1057.0	990.2	1094.8	1057.0	1324.2	856.7
85°	275.9	275.9	418.2	757.9	726.0	871.2	740.5	827.6	781.2	923.5	386.2
87.5°	46.5	40.7	84.2	371.7	299.1	339.8	133.6	441.4	490.8	644.7	95.8
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°	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8
2.5°	2157.6	2137.3	2096.6	2044.4	2000.8	1945.6	1928.2	1890.5	1838.2	1832.4	1809.1
5°	2032.8	1963.1	1875.9	1768.5	1695.9	1620.4	1556.5	1518.8	1475.2	1469.4	1457.8
7.5°	1896.3	1809.1	1664.0	1536.2	1411.3	1292.2	1234.2	1161.6	1112.2	1074.5	1057.0
10°	1768.5	1687.2	1507.1	1332.9	1222.6	1144.1	1074.5	999.0	938.0	891.5	874.1
12.5°	1684.3	1588.5	1393.9	1228.4	1147.1	1057.0	978.6	897.3	818.9	757.9	726.0
15°	1646.5	1556.5	1359.0	1176.1	1057.0	932.2	842.1	760.8	665.0	621.4	606.9
17.5°	1736.6	1603.0	1347.4	1115.1	946.7	804.4	694.0	606.9	537.2	493.7	476.2
20°	1852.7	1687.2	1367.8	1042.5	842.1	682.4	560.5	467.5	421.1	389.1	386.2
22.5°	2000.8	1812.1	1399.7	990.2	726.0	548.8	438.5	383.3	351.4	348.5	342.7
25°	2265.1	2038.6	1452.0	920.5	633.1	453.0	374.6	342.7	328.1	319.4	325.2
27.5°	2491.6	2186.7	1489.7	877.0	595.3	426.9	363.0	328.1	313.6	310.7	313.6
30°	2625.2	2323.1	1478.1	795.7	519.8	406.6	386.2	374.6	345.6	322.3	322.3
32.5°	2747.1	2410.3	1475.2	723.1	444.3	339.8	322.3	313.6	331.0	342.7	334.0
35°	2915.5	2546.7	1466.5	682.4	412.4	313.6	284.6	261.4	249.7	243.9	252.6
37.5°	3095.6	2639.7	1443.3	676.6	394.9	299.1	275.9	252.6	241.0	235.2	232.3
40°	3293.1	2738.4	1417.1	647.6	386.2	290.4	267.2	246.8	232.3	223.6	220.7
42.5°	3420.8	2816.8	1391.0	633.1	368.8	284.6	258.4	241.0	226.5	214.9	214.9
45°	3493.4	2909.7	1364.8	618.5	348.5	287.5	258.4	235.2	217.8	212.0	206.2
47.5°	3525.4	2979.4	1356.1	595.3	331.0	275.9	252.6	229.4	212.0	200.4	197.5
50°	3609.6	3127.5	1388.1	577.9	310.7	264.3	267.2	226.5	209.1	194.6	191.7
52.5°	3659.0	3246.6	1457.8	551.7	296.2	249.7	261.4	220.7	200.4	185.9	185.9
55°	3839.0	3444.1	1533.3	531.4	278.8	229.4	241.0	209.1	185.9	177.1	177.1
57.5°	4068.4	3653.1	1597.2	522.7	267.2	214.9	214.9	203.3	177.1	165.5	162.6
60°	4228.1	3824.5	1634.9	516.9	255.5	200.4	191.7	203.3	168.4	156.8	153.9
62.5°	4245.5	3725.7	1597.2	514.0	252.6	185.9	174.2	194.6	159.7	148.1	142.3
65°	4135.2	3525.4	1492.6	502.4	249.7	171.3	162.6	168.4	148.1	139.4	133.6
67.5°	3914.5	3200.1	1341.6	496.6	246.8	159.7	148.1	145.2	136.5	127.8	122.0
70°	3400.5	2776.2	1164.5	470.4	241.0	151.0	133.6	130.7	122.0	116.2	113.3
72.5°	2854.6	2270.9	961.2	435.6	229.4	136.5	122.0	116.2	113.3	104.5	101.6
75°	2186.7	1748.2	769.5	386.2	200.4	122.0	107.4	101.6	98.7	92.9	90.0
77.5°	1536.2	1301.0	569.2	313.6	168.4	110.3	95.8	90.0	87.1	78.4	78.4
80°	1042.5	911.8	386.2	217.8	130.7	90.0	84.2	78.4	72.6	66.8	66.8
82.5°	647.6	638.9	278.8	142.3	95.8	72.6	66.8	66.8	58.1	52.3	52.3
85°	296.2	392.0	194.6	98.7	72.6	55.2	55.2	52.3	46.5	37.8	37.8
87.5°	92.9	130.7	101.6	43.6	40.7	31.9	31.9	29.0	29.0	23.2	23.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8
2.5°	1832.4	1829.5	1829.5	1817.9	1846.9	1846.9	1864.3	1849.8	1858.5	1861.4	1884.7
5°	1454.9	1478.1	1495.5	1530.4	1550.7	1559.4	1559.4	1582.6	1573.9	1591.4	1626.2
7.5°	1065.7	1094.8	1147.1	1190.6	1225.5	1237.1	1234.2	1240.0	1248.7	1228.4	1234.2
10°	862.5	842.1	859.6	900.2	932.2	969.9	940.9	938.0	946.7	938.0	955.4
12.5°	720.2	696.9	682.4	682.4	705.7	723.1	714.4	728.9	760.8	769.5	789.9
15°	583.7	563.4	551.7	537.2	560.5	566.3	575.0	595.3	618.5	630.2	653.4
17.5°	467.5	467.5	467.5	455.9	464.6	473.3	476.2	502.4	505.3	516.9	525.6
20°	383.3	392.0	406.6	412.4	421.1	421.1	415.3	429.8	418.2	426.9	432.7
22.5°	345.6	357.2	363.0	365.9	377.5	380.4	365.9	368.8	371.7	363.0	365.9
25°	325.2	331.0	325.2	328.1	331.0	325.2	328.1	334.0	331.0	336.9	334.0
27.5°	316.5	310.7	307.8	304.9	304.9	299.1	302.0	302.0	307.8	310.7	310.7
30°	316.5	307.8	296.2	287.5	287.5	278.8	284.6	290.4	293.3	299.1	299.1
32.5°	325.2	307.8	287.5	278.8	270.1	264.3	270.1	278.8	290.4	293.3	296.2
35°	258.4	267.2	264.3	252.6	249.7	249.7	246.8	246.8	238.1	238.1	235.2
37.5°	232.3	229.4	235.2	238.1	241.0	232.3	232.3	220.7	217.8	220.7	220.7
40°	217.8	217.8	217.8	226.5	229.4	223.6	214.9	209.1	209.1	209.1	212.0
42.5°	212.0	206.2	203.3	209.1	217.8	212.0	203.3	200.4	200.4	203.3	203.3
45°	203.3	200.4	197.5	194.6	206.2	197.5	194.6	191.7	191.7	191.7	194.6
47.5°	194.6	191.7	185.9	185.9	188.8	185.9	182.9	182.9	182.9	188.8	188.8
50°	188.8	185.9	180.0	180.0	180.0	180.0	177.1	177.1	177.1	180.0	182.9
52.5°	180.0	177.1	174.2	171.3	171.3	171.3	171.3	171.3	171.3	174.2	177.1
55°	171.3	168.4	165.5	165.5	168.4	168.4	165.5	168.4	165.5	168.4	171.3
57.5°	162.6	159.7	156.8	159.7	162.6	159.7	159.7	159.7	159.7	159.7	162.6
60°	151.0	151.0	151.0	151.0	156.8	156.8	156.8	156.8	151.0	153.9	156.8
62.5°	145.2	142.3	142.3	145.2	148.1	148.1	151.0	148.1	145.2	148.1	148.1
65°	133.6	133.6	133.6	136.5	136.5	139.4	139.4	139.4	136.5	139.4	139.4
67.5°	124.9	124.9	124.9	124.9	130.7	130.7	130.7	130.7	127.8	127.8	130.7
70°	110.3	113.3	110.3	116.2	122.0	119.1	122.0	122.0	119.1	116.2	122.0
72.5°	101.6	101.6	101.6	101.6	110.3	110.3	110.3	113.3	110.3	107.4	110.3
75°	90.0	90.0	90.0	92.9	98.7	98.7	98.7	98.7	98.7	95.8	95.8
77.5°	78.4	81.3	78.4	81.3	87.1	84.2	87.1	90.0	87.1	84.2	84.2
80°	66.8	66.8	66.8	69.7	72.6	72.6	72.6	75.5	72.6	69.7	69.7
82.5°	52.3	52.3	55.2	55.2	58.1	58.1	58.1	61.0	58.1	55.2	55.2
85°	40.7	40.7	40.7	43.6	43.6	46.5	46.5	49.4	49.4	46.5	46.5
87.5°	26.1	23.2	26.1	26.1	29.0	29.0	26.1	23.2	26.1	23.2	20.3
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°	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8
2.5°	1907.9	1960.2	1997.9	2024.0	2061.8	2134.4	2163.4	2215.7	2230.2	2238.9
5°	1640.7	1695.9	1777.2	1835.3	1902.1	2038.6	2143.1	2221.5	2256.4	2288.3
7.5°	1286.4	1359.0	1443.3	1518.8	1629.1	1797.5	1934.0	2096.6	2157.6	2189.6
10°	1004.8	1071.6	1164.5	1257.4	1411.3	1553.6	1748.2	1896.3	1980.5	2003.7
12.5°	847.9	926.4	1036.7	1150.0	1245.8	1408.4	1605.9	1820.8	1899.2	1913.7
15°	720.2	827.6	940.9	1057.0	1167.4	1309.7	1521.7	1783.0	1899.2	1913.7
17.5°	595.3	691.1	824.7	949.6	1077.4	1271.9	1536.2	1815.0	1931.1	1974.7
20°	473.3	566.3	670.8	827.6	1001.9	1208.0	1568.1	1922.4	2076.3	2122.8
22.5°	392.0	432.7	534.3	685.3	891.5	1164.5	1600.1	2090.8	2253.5	2270.9
25°	342.7	371.7	435.6	577.9	804.4	1135.4	1675.6	2285.4	2494.5	2494.5
27.5°	319.4	331.0	374.6	502.4	743.4	1109.3	1751.1	2500.3	2694.8	2735.5
30°	313.6	342.7	365.9	447.2	676.6	1036.7	1820.8	2668.7	2869.1	2872.0
32.5°	307.8	302.0	319.4	389.1	595.3	961.2	1878.8	2840.0	2996.9	3005.6
35°	241.0	252.6	281.7	342.7	534.3	906.0	1907.9	2933.0	3159.5	3168.2
37.5°	226.5	241.0	264.3	316.5	493.7	859.6	1916.6	3113.0	3330.8	3348.2
40°	220.7	232.3	249.7	293.3	461.7	801.5	1934.0	3298.9	3583.5	3560.2
42.5°	209.1	223.6	241.0	281.7	435.6	757.9	1936.9	3400.5	3717.0	3717.0
45°	206.2	214.9	235.2	281.7	406.6	720.2	1890.5	3502.1	3870.9	3824.5
47.5°	194.6	212.0	229.4	273.0	371.7	682.4	1835.3	3554.4	3891.3	3876.7
50°	191.7	209.1	238.1	258.4	351.4	665.0	1823.7	3685.1	3931.9	3929.0
52.5°	185.9	203.3	246.8	246.8	325.2	641.8	1878.8	3743.2	3940.6	3963.9
55°	177.1	203.3	229.4	226.5	302.0	612.7	1939.8	3894.2	4094.5	4088.7
57.5°	171.3	197.5	217.8	206.2	275.9	592.4	2029.8	4039.4	4280.4	4239.7
60°	162.6	197.5	194.6	191.7	255.5	575.0	2105.4	4068.4	4321.1	4347.2
62.5°	156.8	206.2	171.3	177.1	238.1	566.3	2073.4	3850.6	4265.9	4289.1
65°	151.0	177.1	156.8	162.6	232.3	548.8	1948.5	3589.3	4027.8	4129.4
67.5°	139.4	145.2	145.2	151.0	226.5	508.2	1693.0	3118.8	3664.8	3719.9
70°	127.8	130.7	130.7	139.4	220.7	461.7	1396.8	2697.8	3179.8	3284.3
72.5°	116.2	116.2	116.2	127.8	203.3	424.0	1150.0	2073.4	2642.6	2715.2
75°	101.6	101.6	101.6	113.3	182.9	386.2	906.0	1542.0	1945.6	2050.2
77.5°	90.0	90.0	87.1	101.6	159.7	313.6	653.4	1089.0	1370.7	1457.8
80°	75.5	72.6	72.6	81.3	124.9	226.5	421.1	769.5	955.4	993.1
82.5°	61.0	58.1	55.2	61.0	90.0	142.3	261.4	537.2	612.7	589.5
85°	58.1	61.0	49.4	46.5	63.9	92.9	165.5	331.0	275.9	275.9
87.5°	23.2	20.3	20.3	17.4	31.9	34.8	72.6	61.0	46.5	46.5
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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