

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: P675879

Luminaire Tested: **CCW-SA-1E-827-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675879
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-827-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SLL distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

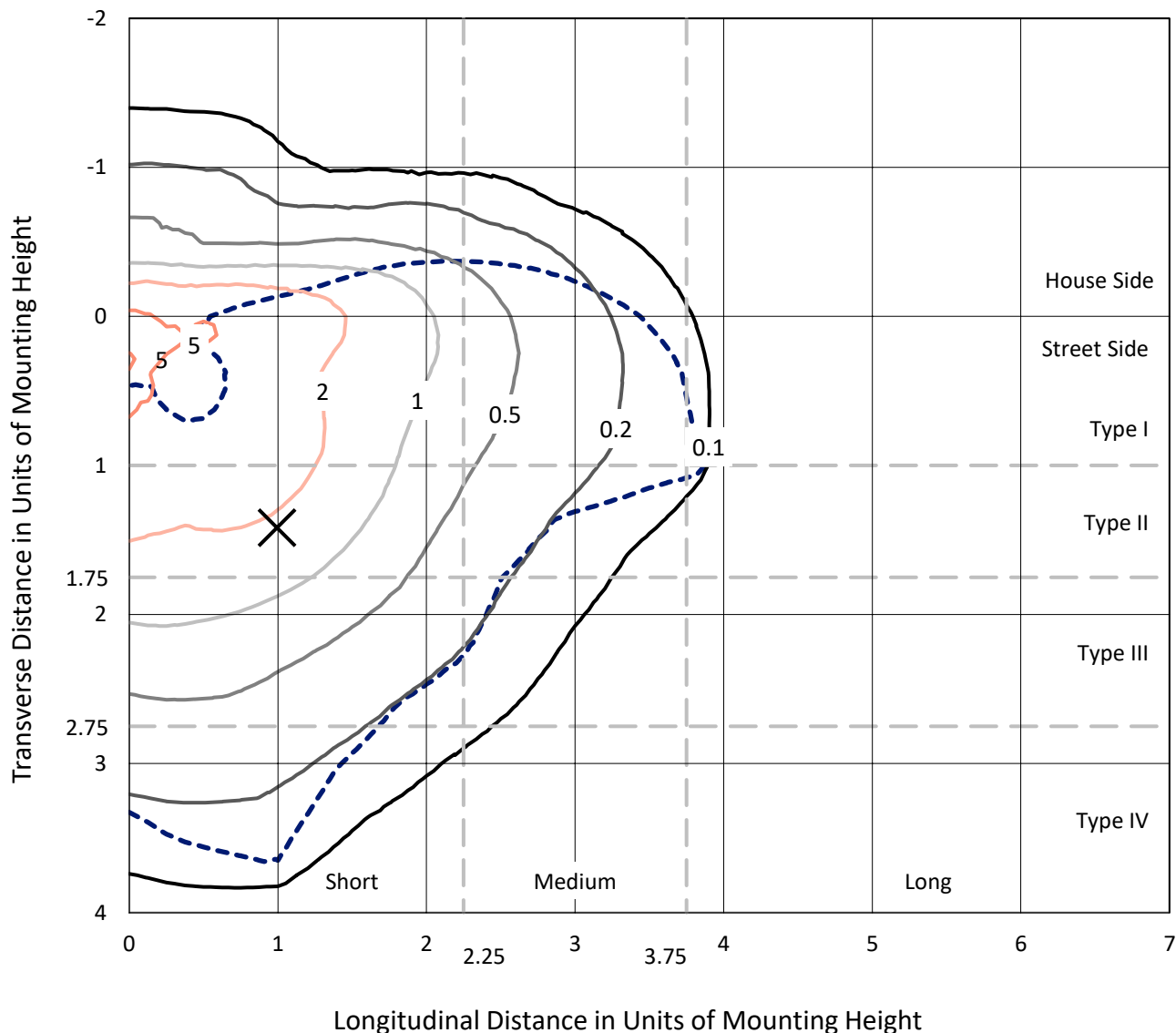
Lumens per Lamp: N/A
Luminaire Lumens: 4170.1 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

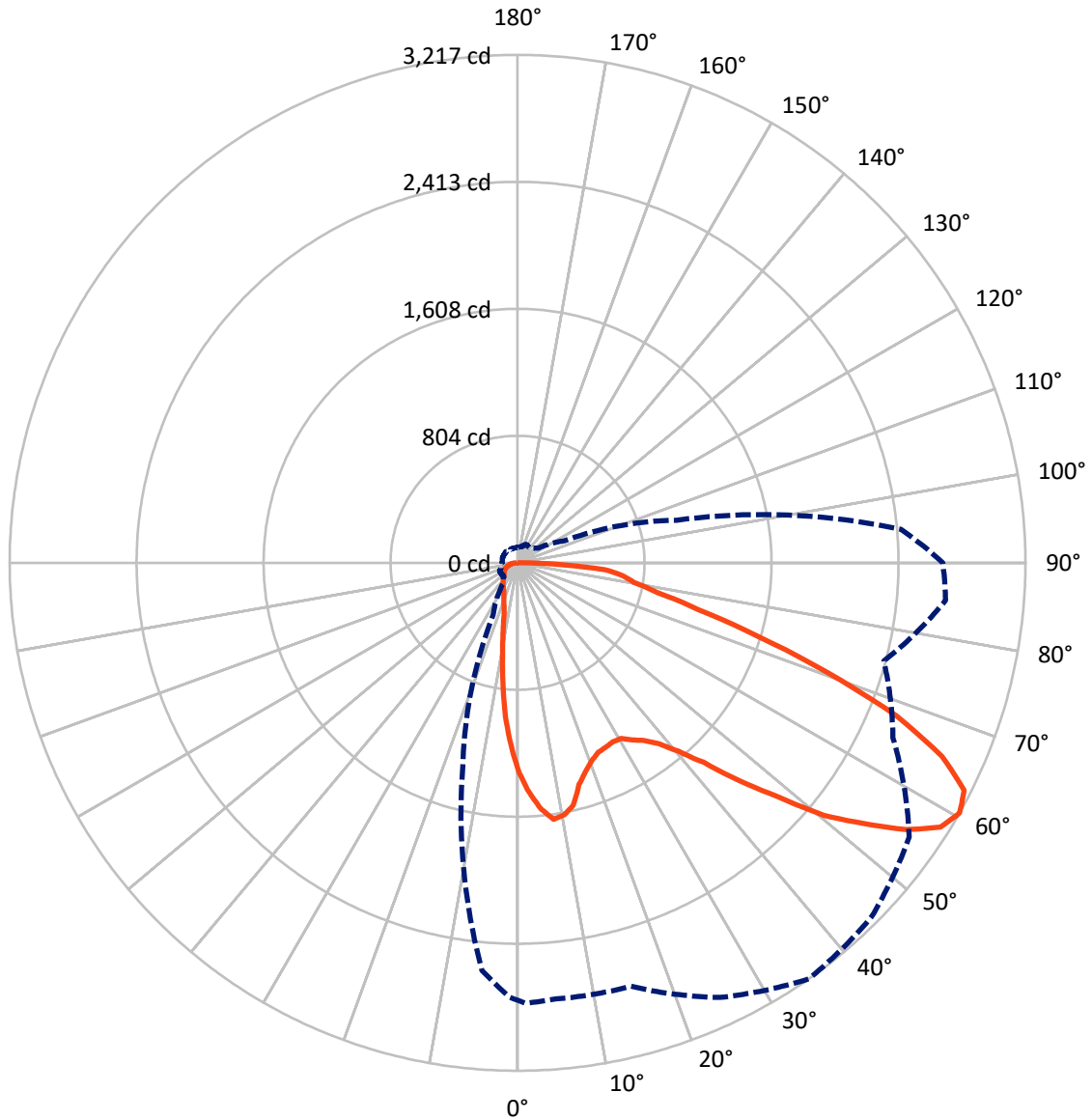
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 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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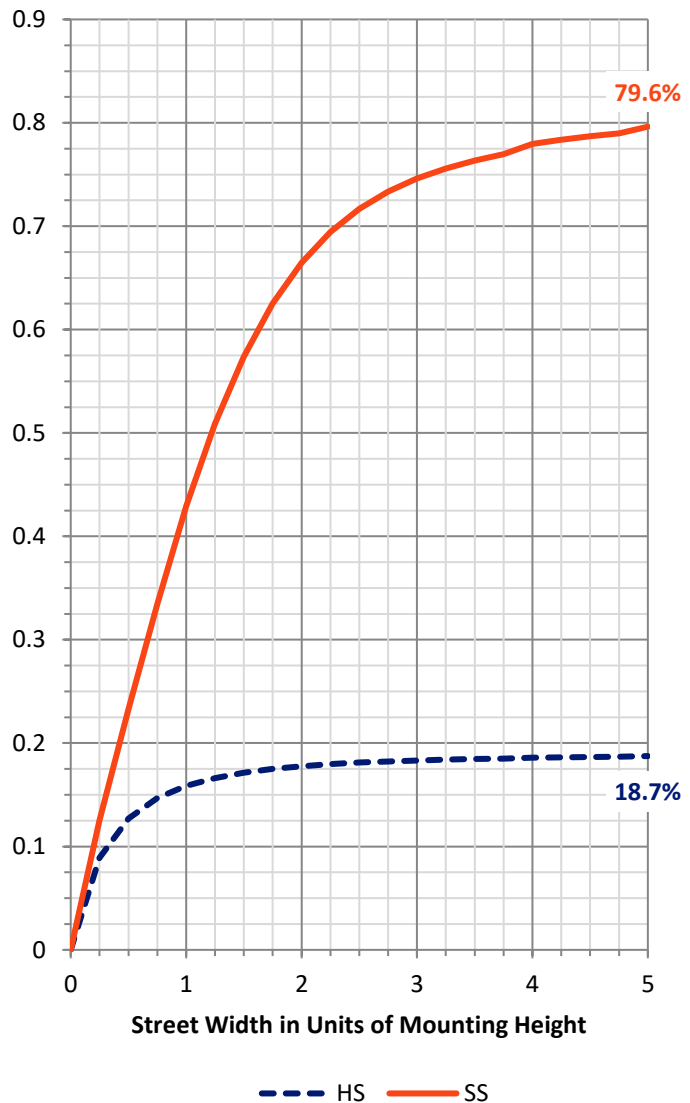
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	793.6	0.0	793.6
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3376.5	0.0	3376.5
	% Fixture	81.0	0.0	81.0
Total	Lumens	4170.1	0.0	4170.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	2.5
10°-20°	218.5	5.2
20°-30°	319.6	7.7
30°-40°	450.3	10.8
40°-50°	618.9	14.8
50°-60°	843.5	20.2
60°-70°	923.2	22.1
70°-80°	533.0	12.8
80°-90°	159.6	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°	4170.1	100.0
0°-180°	4170.1	100.0

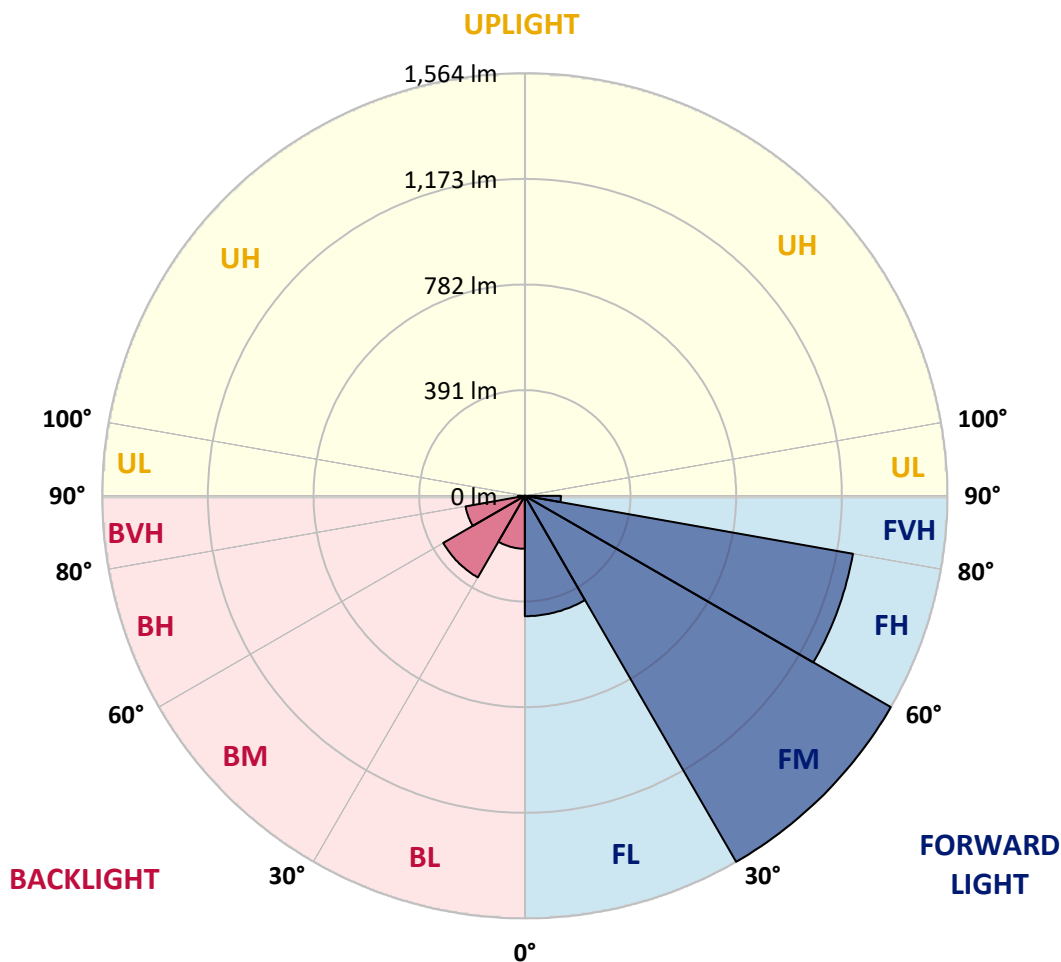


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.5	10.7			
FM (30°-60°)	1564.1	37.5			
FH (60°-80°)	1233.3	29.6			G1/1800
FVH (80°-90°)	133.6	3.2			G2/225
BL (0°-30°)	196.1	4.7	B1/500		
BM (30°-60°)	348.6	8.4	B1/1000		
BH (60°-80°)	222.9	5.3	B1/500		G1/500
BVH (80°-90°)	26.0	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°	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1426.3	1420.7	1426.3	1446.6	1452.2	1461.4	1461.4	1448.5	1424.4	1413.3	1394.8
5°	1457.7	1448.5	1494.7	1537.3	1570.5	1566.8	1535.4	1509.5	1461.4	1389.3	1320.8
7.5°	1394.8	1404.1	1437.4	1548.3	1626.0	1640.8	1590.9	1539.1	1435.5	1335.6	1243.1
10°	1276.4	1289.4	1361.5	1476.2	1598.3	1622.3	1590.9	1528.0	1404.1	1280.1	1172.8
12.5°	1219.1	1248.7	1291.2	1430.0	1516.9	1574.2	1559.4	1518.8	1380.0	1233.9	1130.3
15°	1219.1	1226.5	1289.4	1405.9	1455.9	1457.7	1463.3	1470.7	1387.4	1254.2	1115.5
17.5°	1257.9	1278.3	1331.9	1404.1	1413.3	1391.1	1391.1	1422.6	1402.2	1311.6	1169.1
20°	1352.3	1344.9	1415.2	1444.8	1394.8	1339.3	1333.8	1387.4	1418.9	1372.6	1267.2
22.5°	1446.6	1479.9	1537.3	1470.7	1378.2	1304.2	1296.8	1363.4	1468.8	1478.1	1380.0
25°	1589.0	1622.3	1651.9	1570.5	1376.3	1294.9	1300.5	1352.3	1529.9	1627.9	1568.7
27.5°	1742.6	1762.9	1805.5	1679.7	1420.7	1283.8	1289.4	1367.1	1587.2	1725.9	1716.7
30°	1829.5	1851.7	1842.5	1700.0	1450.3	1291.2	1276.4	1387.4	1555.7	1725.9	1812.9
32.5°	1914.6	1901.7	1896.1	1733.3	1487.3	1337.5	1300.5	1430.0	1574.2	1753.7	1936.8
35°	2018.2	1999.7	1984.9	1798.1	1548.3	1381.9	1365.2	1485.5	1614.9	1811.0	2036.7
37.5°	2132.9	2132.9	2060.8	1846.2	1620.5	1454.0	1435.5	1565.0	1679.7	1846.2	2173.6
40°	2268.0	2273.5	2145.9	1910.9	1701.9	1568.7	1563.1	1668.6	1742.6	1898.0	2305.0
42.5°	2367.8	2371.5	2219.9	1935.0	1796.2	1727.8	1751.8	1835.1	1814.7	1944.2	2314.2
45°	2436.3	2417.8	2271.7	2003.4	1899.8	1966.4	1973.8	1997.9	1909.1	1972.0	2351.2
47.5°	2469.6	2465.9	2293.9	2083.0	2118.1	2208.8	2251.3	2218.0	1996.0	1942.4	2351.2
50°	2502.9	2471.4	2314.2	2192.1	2330.8	2514.0	2504.7	2443.7	2116.3	1979.4	2316.0
52.5°	2525.1	2497.3	2354.9	2290.2	2534.3	2741.5	2778.5	2665.7	2256.9	2047.8	2332.7
55°	2604.6	2582.4	2477.0	2423.3	2769.3	2982.0	2987.6	2830.3	2404.8	2160.7	2441.8
57.5°	2700.8	2713.8	2645.3	2612.0	2948.7	3157.7	3137.4	2952.4	2530.6	2297.6	2567.6
60°	2769.3	2789.6	2773.0	2776.7	3037.5	3216.9	3170.7	3028.3	2623.1	2401.1	2721.2
62.5°	2732.3	2773.0	2841.4	2826.6	3041.2	3174.4	3109.6	2928.4	2634.2	2536.2	2837.7
65°	2630.5	2634.2	2767.4	2848.8	2874.7	2954.3	2869.2	2719.3	2519.5	2619.4	2821.1
67.5°	2369.7	2399.3	2519.5	2678.6	2569.5	2588.0	2580.6	2364.1	2345.6	2562.1	2693.4
70°	2092.2	2112.6	2243.9	2430.7	2169.9	2083.0	2099.6	1938.7	2014.5	2384.5	2436.3
72.5°	1729.6	1742.6	1892.4	2057.1	1740.7	1585.3	1624.2	1492.9	1600.1	2086.7	2055.2
75°	1306.0	1330.1	1446.6	1640.8	1282.0	1182.1	1220.9	1167.3	1267.2	1718.5	1594.6
77.5°	928.6	910.1	1054.4	1283.8	963.8	904.6	908.3	917.5	1024.8	1448.5	1145.1
80°	632.7	638.2	767.7	941.6	756.6	747.4	738.1	812.1	860.2	1146.9	832.4
82.5°	375.5	375.5	518.0	669.7	597.5	673.4	630.8	697.4	673.4	843.5	545.7
85°	175.7	175.7	266.4	482.8	462.5	555.0	471.7	527.2	497.6	588.3	246.0
87.5°	29.6	25.9	53.6	236.8	190.5	216.4	85.1	281.2	312.6	410.7	61.0
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°	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1374.5	1361.5	1335.6	1302.3	1274.6	1239.4	1228.3	1204.3	1171.0	1167.3	1152.5
5°	1294.9	1250.5	1195.0	1126.6	1080.3	1032.2	991.5	967.5	939.7	936.0	928.6
7.5°	1208.0	1152.5	1060.0	978.6	899.0	823.2	786.2	740.0	708.5	684.5	673.4
10°	1126.6	1074.8	960.1	849.1	778.8	728.9	684.5	636.4	597.5	567.9	556.8
12.5°	1072.9	1011.9	887.9	782.5	730.7	673.4	623.4	571.6	521.7	482.8	462.5
15°	1048.9	991.5	865.7	749.2	673.4	593.8	536.5	484.7	423.6	395.9	386.6
17.5°	1106.2	1021.1	858.3	710.4	603.1	512.4	442.1	386.6	342.2	314.5	303.4
20°	1180.2	1074.8	871.3	664.1	536.5	434.7	357.0	297.8	268.2	247.9	246.0
22.5°	1274.6	1154.3	891.6	630.8	462.5	349.6	279.3	244.2	223.8	222.0	218.3
25°	1442.9	1298.6	924.9	586.4	403.3	288.6	238.6	218.3	209.0	203.5	207.2
27.5°	1587.2	1393.0	949.0	558.7	379.2	271.9	231.2	209.0	199.8	197.9	199.8
30°	1672.3	1479.9	941.6	506.9	331.1	259.0	246.0	238.6	220.1	205.3	205.3
32.5°	1750.0	1535.4	939.7	460.6	283.0	216.4	205.3	199.8	210.9	218.3	212.7
35°	1857.3	1622.3	934.2	434.7	262.7	199.8	181.3	166.5	159.1	155.4	160.9
37.5°	1972.0	1681.5	919.4	431.0	251.6	190.5	175.7	160.9	153.5	149.8	148.0
40°	2097.8	1744.4	902.7	412.5	246.0	185.0	170.2	157.2	148.0	142.4	140.6
42.5°	2179.2	1794.4	886.1	403.3	234.9	181.3	164.6	153.5	144.3	136.9	136.9
45°	2225.4	1853.6	869.4	394.0	222.0	183.1	164.6	149.8	138.7	135.0	131.3
47.5°	2245.8	1898.0	863.9	379.2	210.9	175.7	160.9	146.1	135.0	127.6	125.8
50°	2299.4	1992.3	884.2	368.1	197.9	168.3	170.2	144.3	133.2	123.9	122.1
52.5°	2330.8	2068.2	928.6	351.5	188.7	159.1	166.5	140.6	127.6	118.4	118.4
55°	2445.5	2194.0	976.7	338.5	177.6	146.1	153.5	133.2	118.4	112.8	112.8
57.5°	2591.7	2327.1	1017.4	333.0	170.2	136.9	136.9	129.5	112.8	105.4	103.6
60°	2693.4	2436.3	1041.5	329.3	162.8	127.6	122.1	129.5	107.3	99.9	98.0
62.5°	2704.5	2373.4	1017.4	327.4	160.9	118.4	111.0	123.9	101.7	94.3	90.6
65°	2634.2	2245.8	950.8	320.0	159.1	109.1	103.6	107.3	94.3	88.8	85.1
67.5°	2493.6	2038.6	854.6	316.3	157.2	101.7	94.3	92.5	86.9	81.4	77.7
70°	2166.2	1768.5	741.8	299.7	153.5	96.2	85.1	83.2	77.7	74.0	72.1
72.5°	1818.4	1446.6	612.3	277.5	146.1	86.9	77.7	74.0	72.1	66.6	64.7
75°	1393.0	1113.6	490.2	246.0	127.6	77.7	68.4	64.7	62.9	59.2	57.3
77.5°	978.6	828.7	362.6	199.8	107.3	70.3	61.0	57.3	55.5	49.9	49.9
80°	664.1	580.9	246.0	138.7	83.2	57.3	53.6	49.9	46.2	42.5	42.5
82.5°	412.5	407.0	177.6	90.6	61.0	46.2	42.5	42.5	37.0	33.3	33.3
85°	188.7	249.7	123.9	62.9	46.2	35.1	35.1	33.3	29.6	24.0	24.0
87.5°	59.2	83.2	64.7	27.7	25.9	20.3	20.3	18.5	18.5	14.8	14.8
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°	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1167.3	1165.4	1165.4	1158.0	1176.5	1176.5	1187.6	1178.4	1183.9	1185.8	1200.6
5°	926.8	941.6	952.7	974.9	987.8	993.4	993.4	1008.2	1002.6	1013.7	1035.9
7.5°	678.9	697.4	730.7	758.5	780.6	788.0	786.2	789.9	795.4	782.5	786.2
10°	549.4	536.5	547.6	573.5	593.8	617.9	599.4	597.5	603.1	597.5	608.6
12.5°	458.8	444.0	434.7	434.7	449.5	460.6	455.1	464.3	484.7	490.2	503.2
15°	371.8	358.9	351.5	342.2	357.0	360.7	366.3	379.2	394.0	401.4	416.2
17.5°	297.8	297.8	297.8	290.4	296.0	301.5	303.4	320.0	321.9	329.3	334.8
20°	244.2	249.7	259.0	262.7	268.2	268.2	264.5	273.8	266.4	271.9	275.6
22.5°	220.1	227.5	231.2	233.1	240.5	242.3	233.1	234.9	236.8	231.2	233.1
25°	207.2	210.9	207.2	209.0	210.9	207.2	209.0	212.7	210.9	214.6	212.7
27.5°	201.6	197.9	196.1	194.2	194.2	190.5	192.4	192.4	196.1	197.9	197.9
30°	201.6	196.1	188.7	183.1	183.1	177.6	181.3	185.0	186.8	190.5	190.5
32.5°	207.2	196.1	183.1	177.6	172.0	168.3	172.0	177.6	185.0	186.8	188.7
35°	164.6	170.2	168.3	160.9	159.1	159.1	157.2	157.2	151.7	151.7	149.8
37.5°	148.0	146.1	149.8	151.7	153.5	148.0	148.0	140.6	138.7	140.6	140.6
40°	138.7	138.7	138.7	144.3	146.1	142.4	136.9	133.2	133.2	133.2	135.0
42.5°	135.0	131.3	129.5	133.2	138.7	135.0	129.5	127.6	127.6	129.5	129.5
45°	129.5	127.6	125.8	123.9	131.3	125.8	123.9	122.1	122.1	122.1	123.9
47.5°	123.9	122.1	118.4	118.4	120.2	118.4	116.5	116.5	116.5	120.2	120.2
50°	120.2	118.4	114.7	114.7	114.7	114.7	112.8	112.8	112.8	114.7	116.5
52.5°	114.7	112.8	111.0	109.1	109.1	109.1	109.1	109.1	109.1	111.0	112.8
55°	109.1	107.3	105.4	105.4	107.3	107.3	105.4	107.3	105.4	107.3	109.1
57.5°	103.6	101.7	99.9	101.7	103.6	101.7	101.7	101.7	101.7	101.7	103.6
60°	96.2	96.2	96.2	96.2	99.9	99.9	99.9	99.9	96.2	98.0	99.9
62.5°	92.5	90.6	90.6	92.5	94.3	94.3	96.2	94.3	92.5	94.3	94.3
65°	85.1	85.1	85.1	86.9	86.9	88.8	88.8	88.8	86.9	88.8	88.8
67.5°	79.5	79.5	79.5	79.5	83.2	83.2	83.2	83.2	81.4	81.4	83.2
70°	70.3	72.1	70.3	74.0	77.7	75.8	77.7	77.7	75.8	74.0	77.7
72.5°	64.7	64.7	64.7	64.7	70.3	70.3	70.3	72.1	70.3	68.4	70.3
75°	57.3	57.3	57.3	59.2	62.9	62.9	62.9	62.9	62.9	61.0	61.0
77.5°	49.9	51.8	49.9	51.8	55.5	53.6	55.5	57.3	55.5	53.6	53.6
80°	42.5	42.5	42.5	44.4	46.2	46.2	46.2	48.1	46.2	44.4	44.4
82.5°	33.3	33.3	35.1	35.1	37.0	37.0	37.0	38.8	37.0	35.1	35.1
85°	25.9	25.9	25.9	27.7	27.7	29.6	29.6	31.4	31.4	29.6	29.6
87.5°	16.6	14.8	16.6	16.6	18.5	18.5	16.6	14.8	16.6	14.8	12.9
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°	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1215.4	1248.7	1272.7	1289.4	1313.4	1359.7	1378.2	1411.5	1420.7	1426.3
5°	1045.2	1080.3	1132.1	1169.1	1211.7	1298.6	1365.2	1415.2	1437.4	1457.7
7.5°	819.5	865.7	919.4	967.5	1037.8	1145.1	1232.0	1335.6	1374.5	1394.8
10°	640.1	682.6	741.8	801.0	899.0	989.7	1113.6	1208.0	1261.6	1276.4
12.5°	540.2	590.1	660.4	732.6	793.6	897.2	1023.0	1159.9	1209.8	1219.1
15°	458.8	527.2	599.4	673.4	743.7	834.3	969.3	1135.8	1209.8	1219.1
17.5°	379.2	440.3	525.4	604.9	686.3	810.2	978.6	1156.2	1230.2	1257.9
20°	301.5	360.7	427.3	527.2	638.2	769.6	998.9	1224.6	1322.7	1352.3
22.5°	249.7	275.6	340.4	436.6	567.9	741.8	1019.3	1331.9	1435.5	1446.6
25°	218.3	236.8	277.5	368.1	512.4	723.3	1067.4	1455.9	1589.0	1589.0
27.5°	203.5	210.9	238.6	320.0	473.6	706.7	1115.5	1592.7	1716.7	1742.6
30°	199.8	218.3	233.1	284.9	431.0	660.4	1159.9	1700.0	1827.7	1829.5
32.5°	196.1	192.4	203.5	247.9	379.2	612.3	1196.9	1809.2	1909.1	1914.6
35°	153.5	160.9	179.4	218.3	340.4	577.2	1215.4	1868.4	2012.7	2018.2
37.5°	144.3	153.5	168.3	201.6	314.5	547.6	1220.9	1983.1	2121.8	2132.9
40°	140.6	148.0	159.1	186.8	294.1	510.6	1232.0	2101.5	2282.8	2268.0
42.5°	133.2	142.4	153.5	179.4	277.5	482.8	1233.9	2166.2	2367.8	2367.8
45°	131.3	136.9	149.8	179.4	259.0	458.8	1204.3	2231.0	2465.9	2436.3
47.5°	123.9	135.0	146.1	173.9	236.8	434.7	1169.1	2264.3	2478.8	2469.6
50°	122.1	133.2	151.7	164.6	223.8	423.6	1161.7	2347.5	2504.7	2502.9
52.5°	118.4	129.5	157.2	157.2	207.2	408.8	1196.9	2384.5	2510.3	2525.1
55°	112.8	129.5	146.1	144.3	192.4	390.3	1235.7	2480.7	2608.3	2604.6
57.5°	109.1	125.8	138.7	131.3	175.7	377.4	1293.1	2573.2	2726.7	2700.8
60°	103.6	125.8	123.9	122.1	162.8	366.3	1341.2	2591.7	2752.6	2769.3
62.5°	99.9	131.3	109.1	112.8	151.7	360.7	1320.8	2452.9	2717.5	2732.3
65°	96.2	112.8	99.9	103.6	148.0	349.6	1241.3	2286.5	2565.8	2630.5
67.5°	88.8	92.5	92.5	96.2	144.3	323.7	1078.5	1986.8	2334.5	2369.7
70°	81.4	83.2	83.2	88.8	140.6	294.1	889.8	1718.5	2025.6	2092.2
72.5°	74.0	74.0	74.0	81.4	129.5	270.1	732.6	1320.8	1683.4	1729.6
75°	64.7	64.7	64.7	72.1	116.5	246.0	577.2	982.3	1239.4	1306.0
77.5°	57.3	57.3	55.5	64.7	101.7	199.8	416.2	693.7	873.1	928.6
80°	48.1	46.2	46.2	51.8	79.5	144.3	268.2	490.2	608.6	632.7
82.5°	38.8	37.0	35.1	38.8	57.3	90.6	166.5	342.2	390.3	375.5
85°	37.0	38.8	31.4	29.6	40.7	59.2	105.4	210.9	175.7	175.7
87.5°	14.8	12.9	12.9	11.1	20.3	22.2	46.2	38.8	29.6	29.6
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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