

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: P675802

Luminaire Tested: **CCW-SA-1E-722-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675802
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-722-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SLL distribution lens
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

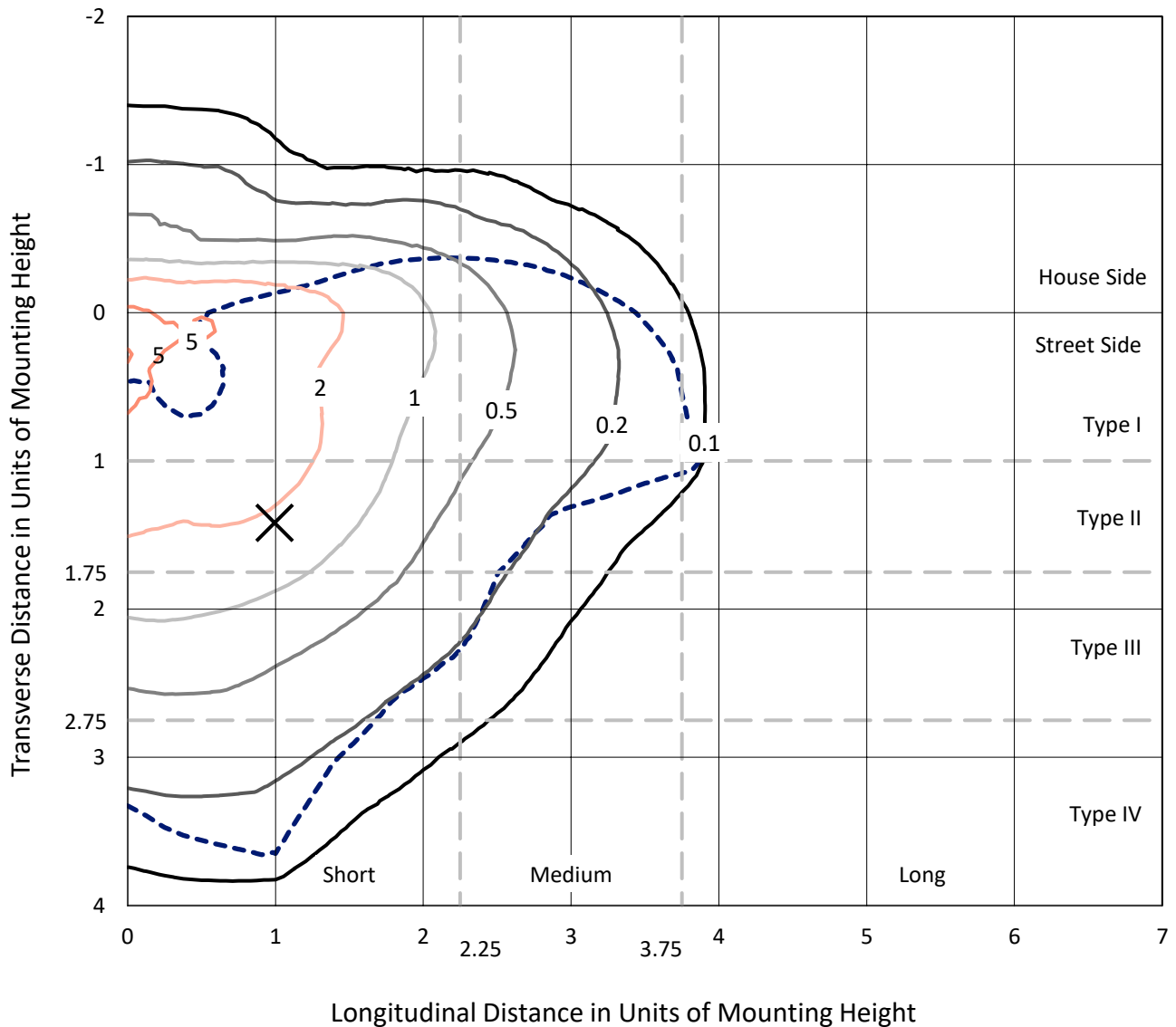
Lumens per Lamp: N/A
Luminaire Lumens: 4178.6 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (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

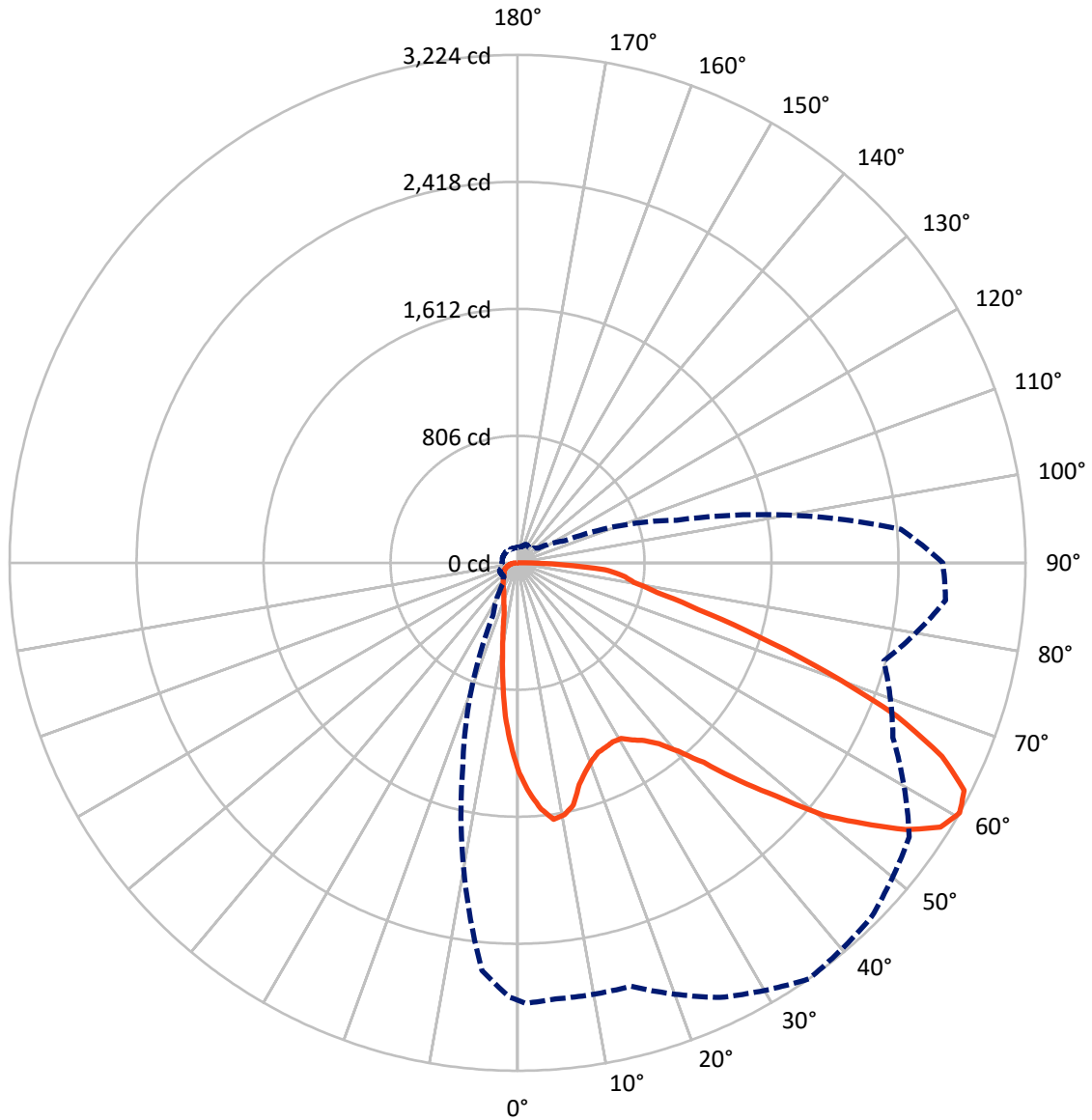
✕ Max cd
 - - - 1/2 Max cd



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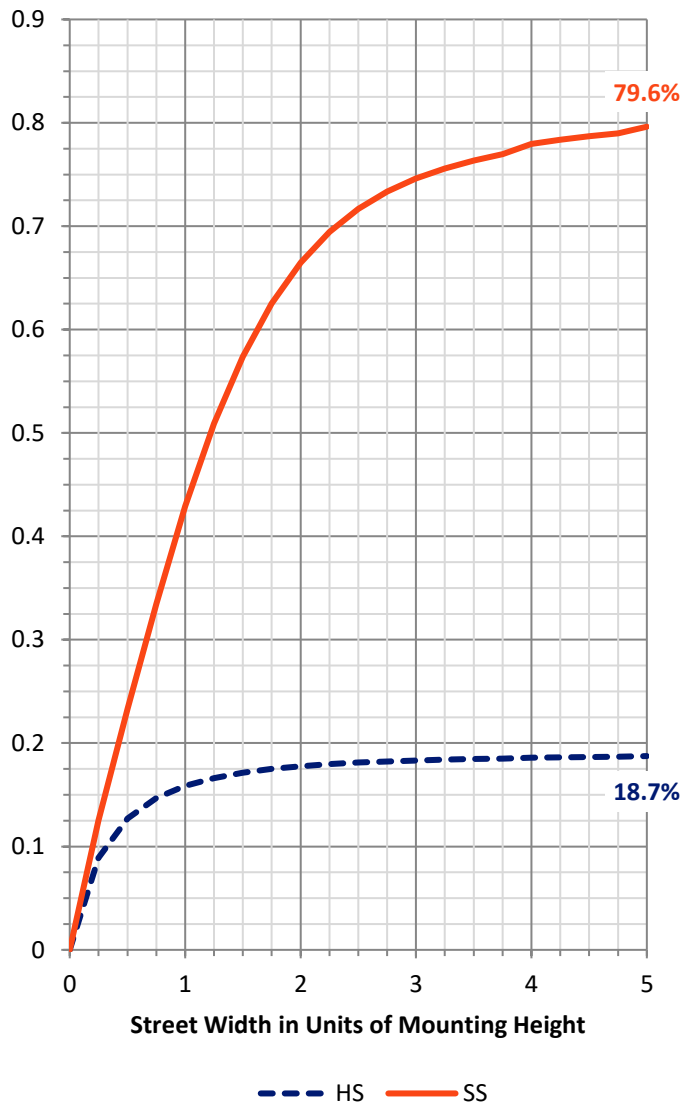
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	795.2	0.0	795.2
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3383.4	0.0	3383.4
	% Fixture	81.0	0.0	81.0
Total	Lumens	4178.6	0.0	4178.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	2.5
10°-20°	218.9	5.2
20°-30°	320.3	7.7
30°-40°	451.3	10.8
40°-50°	620.2	14.8
50°-60°	845.2	20.2
60°-70°	925.1	22.1
70°-80°	534.1	12.8
80°-90°	159.9	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°	4178.6	100.0
0°-180°	4178.6	100.0

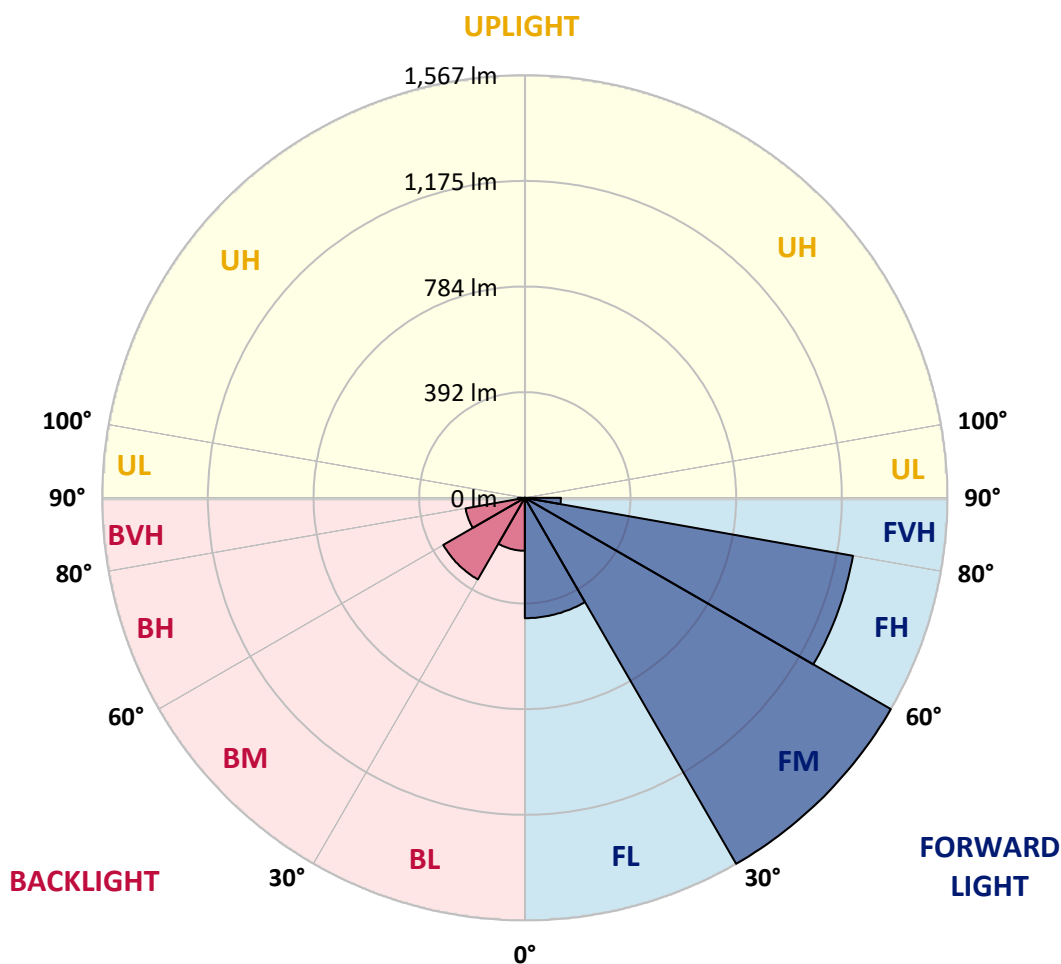


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	446.4	10.7			
FM (30°-60°)	1567.3	37.5			
FH (60°-80°)	1235.8	29.6			G1/1800
FVH (80°-90°)	133.9	3.2			G2/225
BL (0°-30°)	196.5	4.7	B1/500		
BM (30°-60°)	349.3	8.4	B1/1000		
BH (60°-80°)	223.4	5.3	B1/500		G1/500
BVH (80°-90°)	26.1	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°	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6
2.5°	1429.2	1423.6	1429.2	1449.6	1455.1	1464.4	1464.4	1451.4	1427.3	1416.2	1397.7
5°	1460.7	1451.4	1497.8	1540.4	1573.8	1570.0	1538.5	1512.6	1464.4	1392.1	1323.5
7.5°	1397.7	1406.9	1440.3	1551.5	1629.4	1644.2	1594.1	1542.2	1438.4	1338.3	1245.7
10°	1279.0	1292.0	1364.3	1479.2	1601.6	1625.7	1594.1	1531.1	1406.9	1282.7	1175.2
12.5°	1221.6	1251.2	1293.9	1432.9	1520.0	1577.5	1562.6	1521.9	1382.8	1236.4	1132.6
15°	1221.6	1229.0	1292.0	1408.8	1458.8	1460.7	1466.2	1473.7	1390.2	1256.8	1117.8
17.5°	1260.5	1280.9	1334.6	1406.9	1416.2	1393.9	1393.9	1425.5	1405.1	1314.2	1171.5
20°	1355.0	1347.6	1418.0	1447.7	1397.7	1342.0	1336.5	1390.2	1421.8	1375.4	1269.8
22.5°	1449.6	1482.9	1540.4	1473.7	1381.0	1306.8	1299.4	1366.1	1471.8	1481.1	1382.8
25°	1592.3	1625.7	1655.3	1573.8	1379.1	1297.6	1303.1	1355.0	1533.0	1631.2	1571.9
27.5°	1746.1	1766.5	1809.2	1683.1	1423.6	1286.4	1292.0	1369.9	1590.4	1729.5	1720.2
30°	1833.3	1855.5	1846.2	1703.5	1453.3	1293.9	1279.0	1390.2	1558.9	1729.5	1816.6
32.5°	1918.5	1905.6	1900.0	1736.9	1490.3	1340.2	1303.1	1432.9	1577.5	1757.3	1940.8
35°	2022.3	2003.8	1989.0	1801.8	1551.5	1384.7	1368.0	1488.5	1618.2	1814.7	2040.9
37.5°	2137.3	2137.3	2065.0	1849.9	1623.8	1457.0	1438.4	1568.2	1683.1	1849.9	2178.0
40°	2272.6	2278.1	2150.2	1914.8	1705.4	1571.9	1566.3	1672.0	1746.1	1901.8	2309.7
42.5°	2372.7	2376.4	2224.4	1938.9	1799.9	1731.3	1755.4	1838.8	1818.4	1948.2	2318.9
45°	2441.3	2422.7	2276.3	2007.5	1903.7	1970.4	1977.8	2001.9	1913.0	1976.0	2356.0
47.5°	2474.6	2470.9	2298.5	2087.2	2122.4	2213.3	2255.9	2222.5	2000.1	1946.3	2356.0
50°	2508.0	2476.5	2318.9	2196.6	2335.6	2519.1	2509.8	2448.7	2120.6	1983.4	2320.8
52.5°	2530.2	2502.4	2359.7	2294.8	2539.5	2747.1	2784.2	2671.1	2261.5	2052.0	2337.5
55°	2609.9	2587.7	2482.0	2428.3	2774.9	2988.1	2993.7	2836.1	2409.8	2165.1	2446.8
57.5°	2706.3	2719.3	2650.7	2617.4	2954.7	3164.2	3143.8	2958.4	2535.8	2302.2	2572.9
60°	2774.9	2795.3	2778.6	2782.3	3043.7	3223.5	3177.2	3034.4	2628.5	2406.0	2726.7
62.5°	2737.8	2778.6	2847.2	2832.4	3047.4	3180.9	3116.0	2934.3	2639.6	2541.4	2843.5
65°	2635.9	2639.6	2773.1	2854.6	2880.6	2960.3	2875.0	2724.9	2524.7	2624.8	2826.8
67.5°	2374.5	2404.2	2524.7	2684.1	2574.7	2593.3	2585.8	2369.0	2350.4	2567.3	2698.9
70°	2096.5	2116.9	2248.5	2435.7	2174.3	2087.2	2103.9	1942.6	2018.6	2389.4	2441.3
72.5°	1733.2	1746.1	1896.3	2061.3	1744.3	1588.6	1627.5	1495.9	1603.4	2090.9	2059.4
75°	1308.7	1332.8	1449.6	1644.2	1284.6	1184.5	1223.4	1169.7	1269.8	1722.0	1597.9
77.5°	930.5	912.0	1056.6	1286.4	965.8	906.4	910.1	919.4	1026.9	1451.4	1147.4
80°	633.9	639.5	769.3	943.5	758.1	748.9	739.6	813.8	861.9	1149.3	834.1
82.5°	376.3	376.3	519.0	671.0	598.7	674.7	632.1	698.8	674.7	845.3	546.8
85°	176.1	176.1	266.9	483.8	463.4	556.1	472.7	528.3	498.6	589.5	246.5
87.5°	29.7	26.0	53.8	237.3	190.9	216.9	85.3	281.8	313.3	411.5	61.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6
2.5°	1377.3	1364.3	1338.3	1305.0	1277.2	1241.9	1230.8	1206.7	1173.4	1169.7	1154.8
5°	1297.6	1253.1	1197.5	1128.9	1082.5	1034.3	993.6	969.5	941.7	937.9	930.5
7.5°	1210.4	1154.8	1062.1	980.6	900.9	824.9	787.8	741.5	709.9	685.9	674.7
10°	1128.9	1077.0	962.0	850.8	780.4	730.3	685.9	637.7	598.7	569.1	558.0
12.5°	1075.1	1013.9	889.8	784.1	732.2	674.7	624.7	572.8	522.7	483.8	463.4
15°	1051.0	993.6	867.5	750.7	674.7	595.0	537.6	485.7	424.5	396.7	387.4
17.5°	1108.5	1023.2	860.1	711.8	604.3	513.5	443.0	387.4	342.9	315.1	304.0
20°	1182.6	1077.0	873.1	665.5	537.6	435.6	357.8	298.4	268.8	248.4	246.5
22.5°	1277.2	1156.7	893.5	632.1	463.4	350.3	279.9	244.7	224.3	222.4	218.7
25°	1445.9	1301.3	926.8	587.6	404.1	289.2	239.1	218.7	209.5	203.9	207.6
27.5°	1590.4	1395.8	950.9	559.8	380.0	272.5	231.7	209.5	200.2	198.3	200.2
30°	1675.7	1482.9	943.5	507.9	331.8	259.5	246.5	239.1	220.6	205.8	205.8
32.5°	1753.6	1538.5	941.7	461.6	283.6	216.9	205.8	200.2	211.3	218.7	213.2
35°	1861.1	1625.7	936.1	435.6	263.2	200.2	181.7	166.8	159.4	155.7	161.3
37.5°	1976.0	1685.0	921.3	431.9	252.1	190.9	176.1	161.3	153.9	150.1	148.3
40°	2102.0	1748.0	904.6	413.4	246.5	185.4	170.5	157.6	148.3	142.7	140.9
42.5°	2183.6	1798.0	887.9	404.1	235.4	181.7	165.0	153.9	144.6	137.2	137.2
45°	2229.9	1857.4	871.2	394.8	222.4	183.5	165.0	150.1	139.0	135.3	131.6
47.5°	2250.3	1901.8	865.7	380.0	211.3	176.1	161.3	146.4	135.3	127.9	126.0
50°	2304.1	1996.4	886.0	368.9	198.3	168.7	170.5	144.6	133.5	124.2	122.3
52.5°	2335.6	2072.4	930.5	352.2	189.1	159.4	166.8	140.9	127.9	118.6	118.6
55°	2450.5	2198.4	978.7	339.2	178.0	146.4	153.9	133.5	118.6	113.1	113.1
57.5°	2597.0	2331.9	1019.5	333.7	170.5	137.2	137.2	129.8	113.1	105.7	103.8
60°	2698.9	2441.3	1043.6	330.0	163.1	127.9	122.3	129.8	107.5	100.1	98.2
62.5°	2710.0	2378.2	1019.5	328.1	161.3	118.6	111.2	124.2	102.0	94.5	90.8
65°	2639.6	2250.3	952.8	320.7	159.4	109.4	103.8	107.5	94.5	89.0	85.3
67.5°	2498.7	2042.7	856.4	317.0	157.6	102.0	94.5	92.7	87.1	81.6	77.9
70°	2170.6	1772.1	743.3	300.3	153.9	96.4	85.3	83.4	77.9	74.1	72.3
72.5°	1822.1	1449.6	613.6	278.0	146.4	87.1	77.9	74.1	72.3	66.7	64.9
75°	1395.8	1115.9	491.2	246.5	127.9	77.9	68.6	64.9	63.0	59.3	57.5
77.5°	980.6	830.4	363.3	200.2	107.5	70.4	61.2	57.5	55.6	50.0	50.0
80°	665.5	582.0	246.5	139.0	83.4	57.5	53.8	50.0	46.3	42.6	42.6
82.5°	413.4	407.8	178.0	90.8	61.2	46.3	42.6	42.6	37.1	33.4	33.4
85°	189.1	250.2	124.2	63.0	46.3	35.2	35.2	33.4	29.7	24.1	24.1
87.5°	59.3	83.4	64.9	27.8	26.0	20.4	20.4	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°	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6
2.5°	1169.7	1167.8	1167.8	1160.4	1178.9	1178.9	1190.0	1180.8	1186.3	1188.2	1203.0
5°	928.7	943.5	954.6	976.9	989.9	995.4	995.4	1010.2	1004.7	1015.8	1038.0
7.5°	680.3	698.8	732.2	760.0	782.2	789.7	787.8	791.5	797.1	784.1	787.8
10°	550.5	537.6	548.7	574.6	595.0	619.1	600.6	598.7	604.3	598.7	609.9
12.5°	459.7	444.9	435.6	435.6	450.4	461.6	456.0	465.3	485.7	491.2	504.2
15°	372.6	359.6	352.2	342.9	357.8	361.5	367.0	380.0	394.8	402.2	417.1
17.5°	298.4	298.4	298.4	291.0	296.6	302.1	304.0	320.7	322.5	330.0	335.5
20°	244.7	250.2	259.5	263.2	268.8	268.8	265.1	274.3	266.9	272.5	276.2
22.5°	220.6	228.0	231.7	233.6	241.0	242.8	233.6	235.4	237.3	231.7	233.6
25°	207.6	211.3	207.6	209.5	211.3	207.6	209.5	213.2	211.3	215.0	213.2
27.5°	202.0	198.3	196.5	194.6	194.6	190.9	192.8	192.8	196.5	198.3	198.3
30°	202.0	196.5	189.1	183.5	183.5	178.0	181.7	185.4	187.2	190.9	190.9
32.5°	207.6	196.5	183.5	178.0	172.4	168.7	172.4	178.0	185.4	187.2	189.1
35°	165.0	170.5	168.7	161.3	159.4	159.4	157.6	157.6	152.0	152.0	150.1
37.5°	148.3	146.4	150.1	152.0	153.9	148.3	148.3	140.9	139.0	140.9	140.9
40°	139.0	139.0	139.0	144.6	146.4	142.7	137.2	133.5	133.5	133.5	135.3
42.5°	135.3	131.6	129.8	133.5	139.0	135.3	129.8	127.9	127.9	129.8	129.8
45°	129.8	127.9	126.0	124.2	131.6	126.0	124.2	122.3	122.3	122.3	124.2
47.5°	124.2	122.3	118.6	118.6	120.5	118.6	116.8	116.8	116.8	120.5	120.5
50°	120.5	118.6	114.9	114.9	114.9	114.9	113.1	113.1	113.1	114.9	116.8
52.5°	114.9	113.1	111.2	109.4	109.4	109.4	109.4	109.4	109.4	111.2	113.1
55°	109.4	107.5	105.7	105.7	107.5	107.5	105.7	107.5	105.7	107.5	109.4
57.5°	103.8	102.0	100.1	102.0	103.8	102.0	102.0	102.0	102.0	102.0	103.8
60°	96.4	96.4	96.4	96.4	100.1	100.1	100.1	100.1	96.4	98.2	100.1
62.5°	92.7	90.8	90.8	92.7	94.5	94.5	96.4	94.5	92.7	94.5	94.5
65°	85.3	85.3	85.3	87.1	87.1	89.0	89.0	89.0	87.1	89.0	89.0
67.5°	79.7	79.7	79.7	79.7	83.4	83.4	83.4	83.4	81.6	81.6	83.4
70°	70.4	72.3	70.4	74.1	77.9	76.0	77.9	77.9	76.0	74.1	77.9
72.5°	64.9	64.9	64.9	64.9	70.4	70.4	70.4	72.3	70.4	68.6	70.4
75°	57.5	57.5	57.5	59.3	63.0	63.0	63.0	63.0	63.0	61.2	61.2
77.5°	50.0	51.9	50.0	51.9	55.6	53.8	55.6	57.5	55.6	53.8	53.8
80°	42.6	42.6	42.6	44.5	46.3	46.3	46.3	48.2	46.3	44.5	44.5
82.5°	33.4	33.4	35.2	35.2	37.1	37.1	37.1	38.9	37.1	35.2	35.2
85°	26.0	26.0	26.0	27.8	27.8	29.7	29.7	31.5	31.5	29.7	29.7
87.5°	16.7	14.8	16.7	16.7	18.5	18.5	16.7	14.8	16.7	14.8	13.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6	1334.6
2.5°	1217.9	1251.2	1275.3	1292.0	1316.1	1362.4	1381.0	1414.3	1423.6	1429.2
5°	1047.3	1082.5	1134.4	1171.5	1214.1	1301.3	1368.0	1418.0	1440.3	1460.7
7.5°	821.2	867.5	921.3	969.5	1039.9	1147.4	1234.5	1338.3	1377.3	1397.7
10°	641.4	684.0	743.3	802.6	900.9	991.7	1115.9	1210.4	1264.2	1279.0
12.5°	541.3	591.3	661.8	734.0	795.2	899.0	1025.1	1162.2	1212.3	1221.6
15°	459.7	528.3	600.6	674.7	745.2	836.0	971.3	1138.1	1212.3	1221.6
17.5°	380.0	441.2	526.4	606.1	687.7	811.9	980.6	1158.5	1232.7	1260.5
20°	302.1	361.5	428.2	528.3	639.5	771.1	1001.0	1227.1	1325.4	1355.0
22.5°	250.2	276.2	341.1	437.5	569.1	743.3	1021.4	1334.6	1438.4	1449.6
25°	218.7	237.3	278.0	368.9	513.5	724.8	1069.6	1458.8	1592.3	1592.3
27.5°	203.9	211.3	239.1	320.7	474.5	708.1	1117.8	1596.0	1720.2	1746.1
30°	200.2	218.7	233.6	285.5	431.9	661.8	1162.2	1703.5	1831.4	1833.3
32.5°	196.5	192.8	203.9	248.4	380.0	613.6	1199.3	1812.9	1913.0	1918.5
35°	153.9	161.3	179.8	218.7	341.1	578.3	1217.9	1872.2	2016.8	2022.3
37.5°	144.6	153.9	168.7	202.0	315.1	548.7	1223.4	1987.1	2126.1	2137.3
40°	140.9	148.3	159.4	187.2	294.7	511.6	1234.5	2105.8	2287.4	2272.6
42.5°	133.5	142.7	153.9	179.8	278.0	483.8	1236.4	2170.6	2372.7	2372.7
45°	131.6	137.2	150.1	179.8	259.5	459.7	1206.7	2235.5	2470.9	2441.3
47.5°	124.2	135.3	146.4	174.2	237.3	435.6	1171.5	2268.9	2483.9	2474.6
50°	122.3	133.5	152.0	165.0	224.3	424.5	1164.1	2352.3	2509.8	2508.0
52.5°	118.6	129.8	157.6	157.6	207.6	409.7	1199.3	2389.4	2515.4	2530.2
55°	113.1	129.8	146.4	144.6	192.8	391.1	1238.2	2485.8	2613.7	2609.9
57.5°	109.4	126.0	139.0	131.6	176.1	378.1	1295.7	2578.4	2732.3	2706.3
60°	103.8	126.0	124.2	122.3	163.1	367.0	1343.9	2597.0	2758.2	2774.9
62.5°	100.1	131.6	109.4	113.1	152.0	361.5	1323.5	2457.9	2723.0	2737.8
65°	96.4	113.1	100.1	103.8	148.3	350.3	1243.8	2291.1	2571.0	2635.9
67.5°	89.0	92.7	92.7	96.4	144.6	324.4	1080.7	1990.8	2339.3	2374.5
70°	81.6	83.4	83.4	89.0	140.9	294.7	891.6	1722.0	2029.8	2096.5
72.5°	74.1	74.1	74.1	81.6	129.8	270.6	734.0	1323.5	1686.8	1733.2
75°	64.9	64.9	64.9	72.3	116.8	246.5	578.3	984.3	1241.9	1308.7
77.5°	57.5	57.5	55.6	64.9	102.0	200.2	417.1	695.1	874.9	930.5
80°	48.2	46.3	46.3	51.9	79.7	144.6	268.8	491.2	609.9	633.9
82.5°	38.9	37.1	35.2	38.9	57.5	90.8	166.8	342.9	391.1	376.3
85°	37.1	38.9	31.5	29.7	40.8	59.3	105.7	211.3	176.1	176.1
87.5°	14.8	13.0	13.0	11.1	20.4	22.2	46.3	38.9	29.7	29.7
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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