

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: P675856

Luminaire Tested: **CCW-SA-1D-750-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675856
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-750-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SLL distribution lens
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

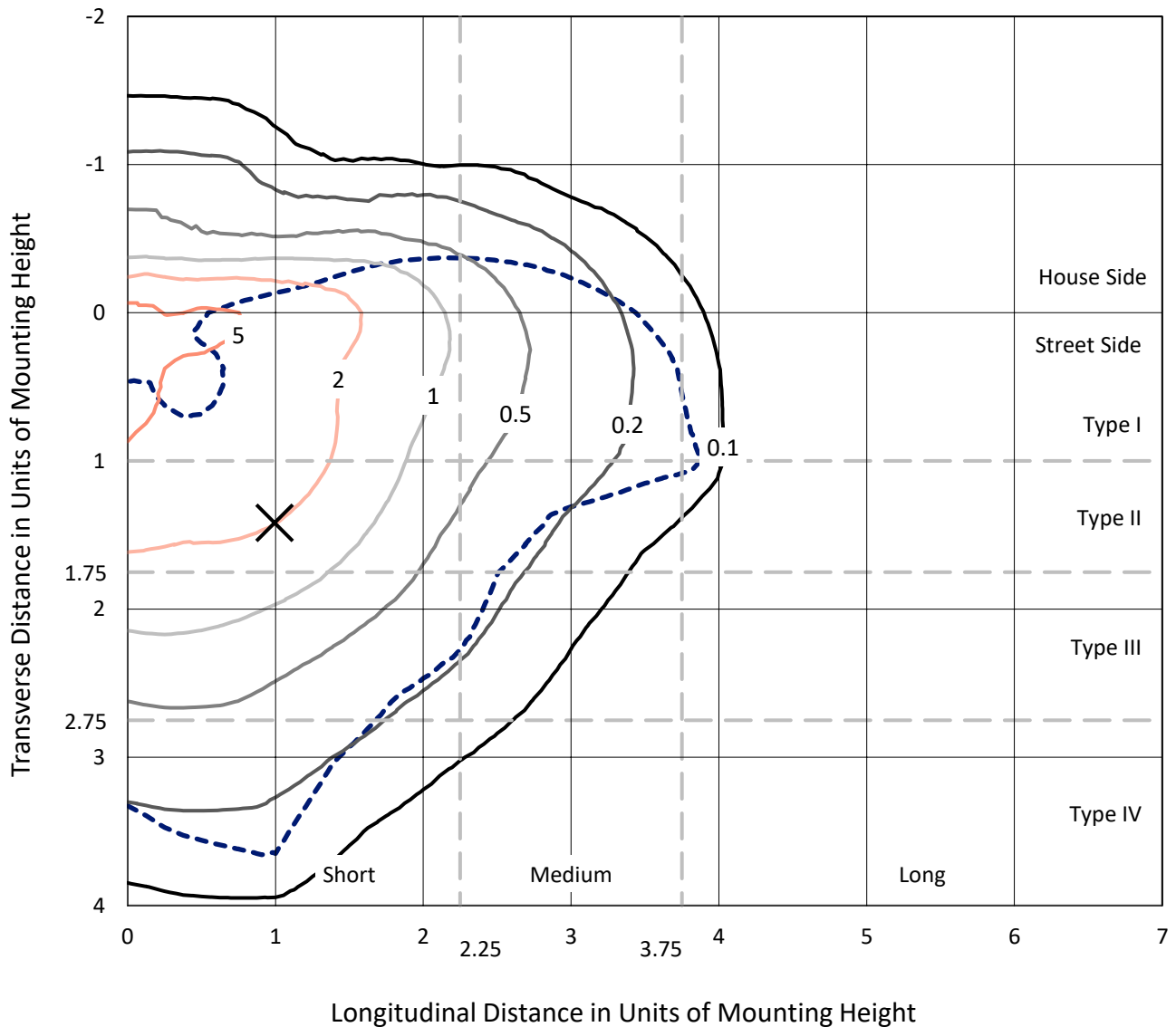
Lumens per Lamp: N/A
Luminaire Lumens: 4733.3 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

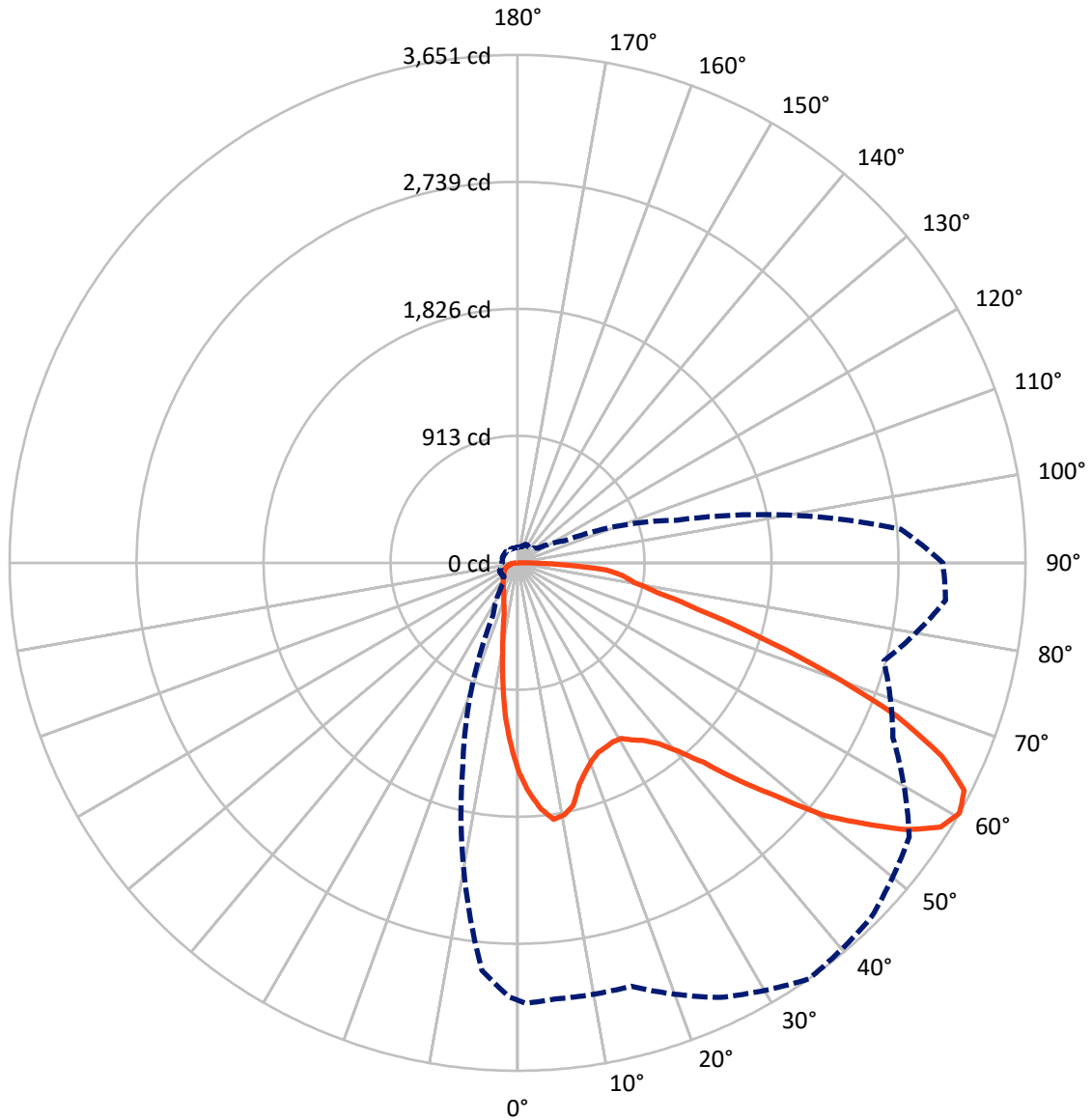
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.7 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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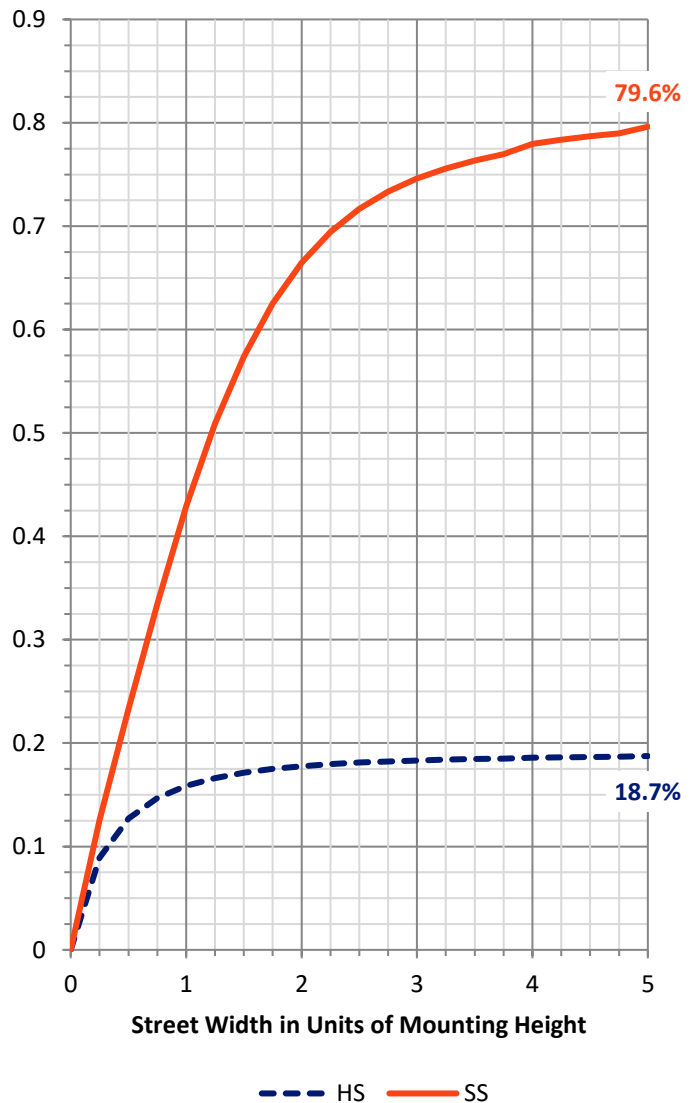
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	900.8	0.0	900.8
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3832.5	0.0	3832.5
	% Fixture	81.0	0.0	81.0
Total	Lumens	4733.3	0.0	4733.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	2.5
10°-20°	248.0	5.2
20°-30°	362.8	7.7
30°-40°	511.2	10.8
40°-50°	702.5	14.8
50°-60°	957.4	20.2
60°-70°	1047.9	22.1
70°-80°	605.0	12.8
80°-90°	181.2	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°	4733.3	100.0
0°-180°	4733.3	100.0

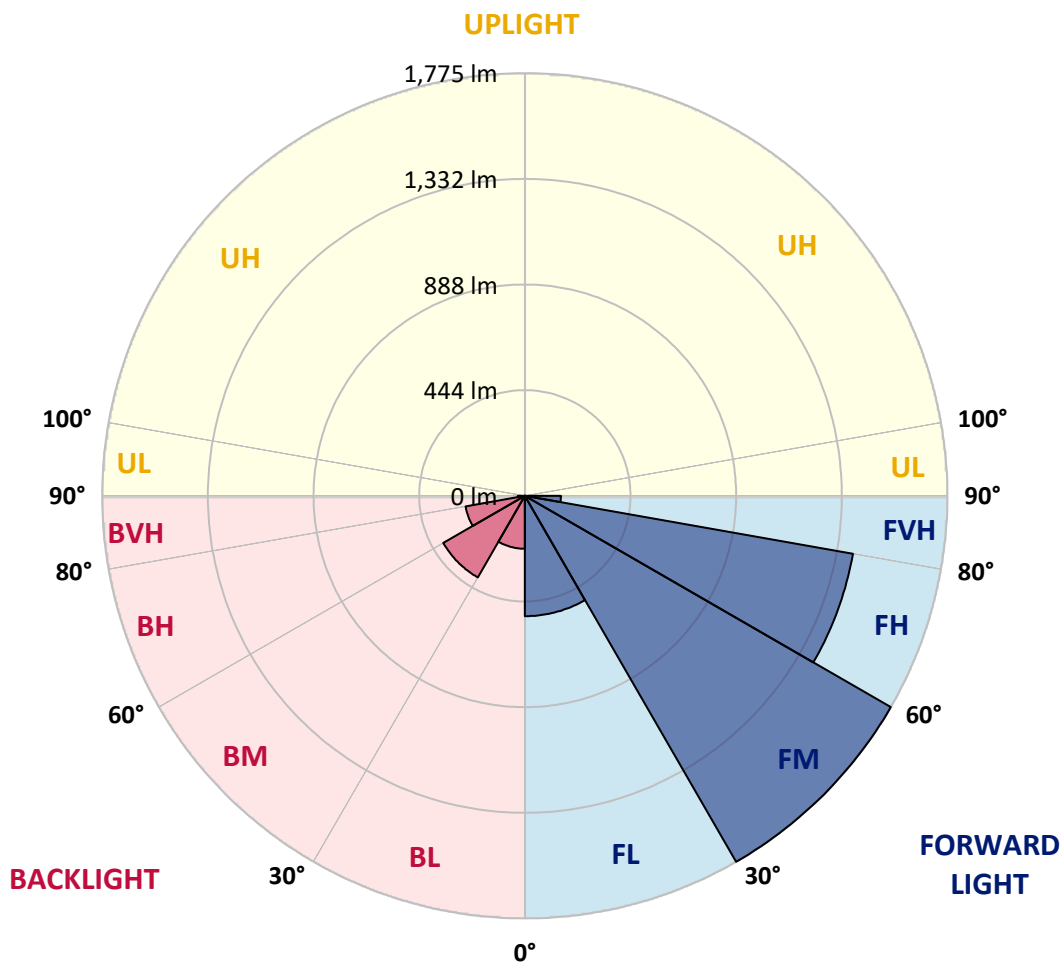


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	505.7	10.7			
FM (30°-60°)	1775.4	37.5			
FH (60°-80°)	1399.8	29.6			G1/1800
FVH (80°-90°)	151.6	3.2			G2/225
BL (0°-30°)	222.6	4.7	B1/500		
BM (30°-60°)	395.7	8.4	B1/1000		
BH (60°-80°)	253.0	5.3	B1/500		G1/500
BVH (80°-90°)	29.5	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°	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8
2.5°	1618.9	1612.6	1618.9	1642.0	1648.3	1658.8	1658.8	1644.1	1616.8	1604.2	1583.2
5°	1654.6	1644.1	1696.5	1744.8	1782.6	1778.4	1742.7	1713.3	1658.8	1576.9	1499.2
7.5°	1583.2	1593.7	1631.5	1757.4	1845.6	1862.4	1805.7	1746.9	1629.4	1516.0	1411.0
10°	1448.8	1463.5	1545.4	1675.6	1814.1	1841.4	1805.7	1734.3	1593.7	1453.0	1331.2
12.5°	1383.7	1417.3	1465.6	1623.1	1721.7	1786.8	1770.0	1723.8	1566.4	1400.5	1282.9
15°	1383.7	1392.1	1463.5	1595.8	1652.5	1654.6	1660.9	1669.3	1574.8	1423.6	1266.1
17.5°	1427.8	1450.9	1511.8	1593.7	1604.2	1579.0	1579.0	1614.7	1591.6	1488.7	1327.0
20°	1534.9	1526.5	1606.3	1639.9	1583.2	1520.2	1513.9	1574.8	1610.5	1558.0	1438.3
22.5°	1642.0	1679.8	1744.8	1669.3	1564.3	1480.3	1471.9	1547.5	1667.2	1677.7	1566.4
25°	1803.6	1841.4	1875.0	1782.6	1562.2	1469.8	1476.1	1534.9	1736.4	1847.7	1780.5
27.5°	1977.9	2001.0	2049.3	1906.5	1612.6	1457.2	1463.5	1551.7	1801.5	1959.0	1948.5
30°	2076.6	2101.8	2091.3	1929.6	1646.2	1465.6	1448.8	1574.8	1765.8	1959.0	2057.7
32.5°	2173.2	2158.5	2152.2	1967.4	1688.2	1518.1	1476.1	1623.1	1786.8	1990.5	2198.4
35°	2290.8	2269.8	2253.0	2040.9	1757.4	1568.5	1549.6	1686.1	1833.0	2055.6	2311.8
37.5°	2420.9	2420.9	2339.1	2095.5	1839.3	1650.4	1629.4	1776.3	1906.5	2095.5	2467.1
40°	2574.2	2580.5	2435.6	2169.0	1931.7	1780.5	1774.2	1893.9	1977.9	2154.3	2616.2
42.5°	2687.6	2691.8	2519.6	2196.3	2038.8	1961.1	1988.4	2082.9	2059.8	2206.8	2626.7
45°	2765.3	2744.3	2578.4	2274.0	2156.4	2232.0	2240.4	2267.7	2166.9	2238.3	2668.7
47.5°	2803.1	2798.9	2603.6	2364.3	2404.1	2507.0	2555.3	2517.5	2265.6	2204.7	2668.7
50°	2840.9	2805.2	2626.7	2488.1	2645.6	2853.5	2843.0	2773.7	2402.0	2246.7	2628.8
52.5°	2866.1	2834.6	2672.9	2599.4	2876.6	3111.7	3153.7	3025.7	2561.6	2324.4	2647.7
55°	2956.4	2931.2	2811.5	2750.6	3143.2	3384.7	3391.0	3212.5	2729.6	2452.4	2771.6
57.5°	3065.5	3080.2	3002.6	2964.8	3346.9	3584.2	3561.1	3351.1	2872.4	2607.8	2914.4
60°	3143.2	3166.3	3147.4	3151.6	3447.7	3651.4	3598.9	3437.2	2977.4	2725.4	3088.6
62.5°	3101.2	3147.4	3225.1	3208.3	3451.9	3603.1	3529.6	3323.8	2990.0	2878.7	3220.9
65°	2985.8	2990.0	3141.1	3233.5	3262.9	3353.2	3256.6	3086.5	2859.8	2973.2	3202.0
67.5°	2689.7	2723.3	2859.8	3040.4	2916.5	2937.5	2929.1	2683.4	2662.4	2908.1	3057.1
70°	2374.7	2397.8	2546.9	2759.0	2462.9	2364.3	2383.1	2200.5	2286.6	2706.5	2765.3
72.5°	1963.2	1977.9	2148.0	2334.9	1975.8	1799.4	1843.5	1694.4	1816.2	2368.4	2332.8
75°	1482.4	1509.7	1642.0	1862.4	1455.1	1341.7	1385.8	1324.9	1438.3	1950.6	1809.9
77.5°	1054.0	1033.0	1196.8	1457.2	1093.9	1026.7	1030.9	1041.4	1163.2	1644.1	1299.7
80°	718.1	724.4	871.4	1068.7	858.8	848.3	837.8	921.8	976.4	1301.8	944.9
82.5°	426.2	426.2	587.9	760.1	678.2	764.3	716.0	791.6	764.3	957.5	619.4
85°	199.5	199.5	302.4	548.0	524.9	629.9	535.4	598.4	564.8	667.7	279.3
87.5°	33.6	29.4	60.9	268.8	216.3	245.7	96.6	319.2	354.8	466.1	69.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8
2.5°	1560.1	1545.4	1516.0	1478.2	1446.7	1406.8	1394.2	1366.9	1329.1	1324.9	1308.1
5°	1469.8	1419.4	1356.4	1278.7	1226.2	1171.6	1125.4	1098.1	1066.6	1062.4	1054.0
7.5°	1371.1	1308.1	1203.1	1110.7	1020.4	934.4	892.4	839.9	804.2	776.9	764.3
10°	1278.7	1219.9	1089.7	963.8	884.0	827.3	776.9	722.3	678.2	644.6	632.0
12.5°	1217.8	1148.5	1007.9	888.2	829.4	764.3	707.6	648.8	592.1	548.0	524.9
15°	1190.5	1125.4	982.7	850.4	764.3	674.0	608.9	550.1	480.8	449.3	438.8
17.5°	1255.6	1159.0	974.3	806.3	684.5	581.6	501.8	438.8	388.4	356.9	344.3
20°	1339.6	1219.9	989.0	753.8	608.9	493.4	405.2	338.0	304.5	281.4	279.3
22.5°	1446.7	1310.2	1012.1	716.0	524.9	396.8	317.1	277.2	254.1	252.0	247.8
25°	1637.8	1474.0	1049.8	665.6	457.7	327.6	270.9	247.8	237.3	231.0	235.2
27.5°	1801.5	1581.1	1077.1	634.1	430.4	308.7	262.5	237.3	226.8	224.7	226.8
30°	1898.1	1679.8	1068.7	575.3	375.8	294.0	279.3	270.9	249.9	233.1	233.1
32.5°	1986.3	1742.7	1066.6	522.8	321.3	245.7	233.1	226.8	239.4	247.8	241.5
35°	2108.1	1841.4	1060.3	493.4	298.2	226.8	205.8	189.0	180.6	176.4	182.7
37.5°	2238.3	1908.6	1043.5	489.2	285.6	216.3	199.5	182.7	174.3	170.1	168.0
40°	2381.0	1980.0	1024.6	468.2	279.3	210.0	193.2	178.5	168.0	161.7	159.6
42.5°	2473.4	2036.7	1005.8	457.7	266.7	205.8	186.9	174.3	163.8	155.4	155.4
45°	2525.9	2103.9	986.9	447.2	252.0	207.9	186.9	170.1	157.5	153.3	149.1
47.5°	2549.0	2154.3	980.6	430.4	239.4	199.5	182.7	165.9	153.3	144.9	142.8
50°	2609.9	2261.4	1003.7	417.8	224.7	191.1	193.2	163.8	151.2	140.7	138.6
52.5°	2645.6	2347.5	1054.0	398.9	214.2	180.6	189.0	159.6	144.9	134.4	134.4
55°	2775.8	2490.2	1108.6	384.2	201.6	165.9	174.3	151.2	134.4	128.1	128.1
57.5°	2941.7	2641.4	1154.8	377.9	193.2	155.4	155.4	147.0	128.1	119.7	117.6
60°	3057.1	2765.3	1182.1	373.7	184.8	144.9	138.6	147.0	121.8	113.4	111.3
62.5°	3069.7	2693.9	1154.8	371.6	182.7	134.4	126.0	140.7	115.5	107.1	102.9
65°	2990.0	2549.0	1079.2	363.2	180.6	123.9	117.6	121.8	107.1	100.8	96.6
67.5°	2830.4	2313.9	970.1	359.0	178.5	115.5	107.1	105.0	98.7	92.4	88.2
70°	2458.7	2007.3	842.0	340.1	174.3	109.2	96.6	94.5	88.2	84.0	81.9
72.5°	2064.0	1642.0	695.0	315.0	165.9	98.7	88.2	84.0	81.9	75.6	73.5
75°	1581.1	1264.0	556.4	279.3	144.9	88.2	77.7	73.5	71.4	67.2	65.1
77.5°	1110.7	940.7	411.5	226.8	121.8	79.8	69.3	65.1	63.0	56.7	56.7
80°	753.8	659.3	279.3	157.5	94.5	65.1	60.9	56.7	52.5	48.3	48.3
82.5°	468.2	461.9	201.6	102.9	69.3	52.5	48.3	48.3	42.0	37.8	37.8
85°	214.2	283.5	140.7	71.4	52.5	39.9	39.9	37.8	33.6	27.3	27.3
87.5°	67.2	94.5	73.5	31.5	29.4	23.1	23.1	21.0	21.0	16.8	16.8
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°	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8
2.5°	1324.9	1322.8	1322.8	1314.4	1335.4	1335.4	1348.0	1337.5	1343.8	1345.9	1362.7
5°	1051.9	1068.7	1081.3	1106.5	1121.2	1127.5	1127.5	1144.3	1138.0	1150.6	1175.8
7.5°	770.6	791.6	829.4	860.9	886.1	894.5	892.4	896.6	902.9	888.2	892.4
10°	623.6	608.9	621.5	650.9	674.0	701.3	680.3	678.2	684.5	678.2	690.8
12.5°	520.7	503.9	493.4	493.4	510.2	522.8	516.5	527.0	550.1	556.4	571.1
15°	422.0	407.3	398.9	388.4	405.2	409.4	415.7	430.4	447.2	455.6	472.4
17.5°	338.0	338.0	338.0	329.7	336.0	342.2	344.3	363.2	365.3	373.7	380.0
20°	277.2	283.5	294.0	298.2	304.5	304.5	300.3	310.8	302.4	308.7	312.9
22.5°	249.9	258.3	262.5	264.6	273.0	275.1	264.6	266.7	268.8	262.5	264.6
25°	235.2	239.4	235.2	237.3	239.4	235.2	237.3	241.5	239.4	243.6	241.5
27.5°	228.9	224.7	222.6	220.5	220.5	216.3	218.4	218.4	222.6	224.7	224.7
30°	228.9	222.6	214.2	207.9	207.9	201.6	205.8	210.0	212.1	216.3	216.3
32.5°	235.2	222.6	207.9	201.6	195.3	191.1	195.3	201.6	210.0	212.1	214.2
35°	186.9	193.2	191.1	182.7	180.6	180.6	178.5	178.5	172.2	172.2	170.1
37.5°	168.0	165.9	170.1	172.2	174.3	168.0	168.0	159.6	157.5	159.6	159.6
40°	157.5	157.5	157.5	163.8	165.9	161.7	155.4	151.2	151.2	151.2	153.3
42.5°	153.3	149.1	147.0	151.2	157.5	153.3	147.0	144.9	144.9	147.0	147.0
45°	147.0	144.9	142.8	140.7	149.1	142.8	140.7	138.6	138.6	138.6	140.7
47.5°	140.7	138.6	134.4	134.4	136.5	134.4	132.3	132.3	132.3	136.5	136.5
50°	136.5	134.4	130.2	130.2	130.2	130.2	128.1	128.1	128.1	130.2	132.3
52.5°	130.2	128.1	126.0	123.9	123.9	123.9	123.9	123.9	123.9	126.0	128.1
55°	123.9	121.8	119.7	119.7	121.8	121.8	119.7	121.8	119.7	121.8	123.9
57.5°	117.6	115.5	113.4	115.5	117.6	115.5	115.5	115.5	115.5	115.5	117.6
60°	109.2	109.2	109.2	109.2	113.4	113.4	113.4	113.4	109.2	111.3	113.4
62.5°	105.0	102.9	102.9	105.0	107.1	107.1	109.2	107.1	105.0	107.1	107.1
65°	96.6	96.6	96.6	98.7	98.7	100.8	100.8	100.8	98.7	100.8	100.8
67.5°	90.3	90.3	90.3	90.3	94.5	94.5	94.5	94.5	92.4	92.4	94.5
70°	79.8	81.9	79.8	84.0	88.2	86.1	88.2	88.2	86.1	84.0	88.2
72.5°	73.5	73.5	73.5	73.5	79.8	79.8	79.8	81.9	79.8	77.7	79.8
75°	65.1	65.1	65.1	67.2	71.4	71.4	71.4	71.4	71.4	69.3	69.3
77.5°	56.7	58.8	56.7	58.8	63.0	60.9	63.0	65.1	63.0	60.9	60.9
80°	48.3	48.3	48.3	50.4	52.5	52.5	52.5	54.6	52.5	50.4	50.4
82.5°	37.8	37.8	39.9	39.9	42.0	42.0	42.0	44.1	42.0	39.9	39.9
85°	29.4	29.4	29.4	31.5	31.5	33.6	33.6	35.7	35.7	33.6	33.6
87.5°	18.9	16.8	18.9	18.9	21.0	21.0	18.9	16.8	18.9	16.8	14.7
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°	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8
2.5°	1379.5	1417.3	1444.6	1463.5	1490.8	1543.3	1564.3	1602.1	1612.6	1618.9
5°	1186.3	1226.2	1285.0	1327.0	1375.3	1474.0	1549.6	1606.3	1631.5	1654.6
7.5°	930.2	982.7	1043.5	1098.1	1177.9	1299.7	1398.4	1516.0	1560.1	1583.2
10°	726.5	774.8	842.0	909.2	1020.4	1123.3	1264.0	1371.1	1432.0	1448.8
12.5°	613.1	669.8	749.6	831.5	900.8	1018.3	1161.1	1316.5	1373.2	1383.7
15°	520.7	598.4	680.3	764.3	844.1	947.0	1100.2	1289.2	1373.2	1383.7
17.5°	430.4	499.7	596.3	686.6	779.0	919.7	1110.7	1312.3	1396.3	1427.8
20°	342.2	409.4	485.0	598.4	724.4	873.5	1133.8	1390.0	1501.3	1534.9
22.5°	283.5	312.9	386.3	495.5	644.6	842.0	1156.9	1511.8	1629.4	1642.0
25°	247.8	268.8	315.0	417.8	581.6	821.0	1211.5	1652.5	1803.6	1803.6
27.5°	231.0	239.4	270.9	363.2	537.5	802.1	1266.1	1807.8	1948.5	1977.9
30°	226.8	247.8	264.6	323.4	489.2	749.6	1316.5	1929.6	2074.5	2076.6
32.5°	222.6	218.4	231.0	281.4	430.4	695.0	1358.5	2053.5	2166.9	2173.2
35°	174.3	182.7	203.7	247.8	386.3	655.1	1379.5	2120.7	2284.5	2290.8
37.5°	163.8	174.3	191.1	228.9	356.9	621.5	1385.8	2250.9	2408.3	2420.9
40°	159.6	168.0	180.6	212.1	333.9	579.5	1398.4	2385.2	2591.0	2574.2
42.5°	151.2	161.7	174.3	203.7	315.0	548.0	1400.5	2458.7	2687.6	2687.6
45°	149.1	155.4	170.1	203.7	294.0	520.7	1366.9	2532.2	2798.9	2765.3
47.5°	140.7	153.3	165.9	197.4	268.8	493.4	1327.0	2570.0	2813.6	2803.1
50°	138.6	151.2	172.2	186.9	254.1	480.8	1318.6	2664.5	2843.0	2840.9
52.5°	134.4	147.0	178.5	178.5	235.2	464.0	1358.5	2706.5	2849.3	2866.1
55°	128.1	147.0	165.9	163.8	218.4	443.0	1402.6	2815.7	2960.6	2956.4
57.5°	123.9	142.8	157.5	149.1	199.5	428.3	1467.7	2920.7	3094.9	3065.5
60°	117.6	142.8	140.7	138.6	184.8	415.7	1522.3	2941.7	3124.3	3143.2
62.5°	113.4	149.1	123.9	128.1	172.2	409.4	1499.2	2784.2	3084.4	3101.2
65°	109.2	128.1	113.4	117.6	168.0	396.8	1408.9	2595.2	2912.3	2985.8
67.5°	100.8	105.0	105.0	109.2	163.8	367.4	1224.1	2255.1	2649.8	2689.7
70°	92.4	94.5	94.5	100.8	159.6	333.9	1010.0	1950.6	2299.2	2374.7
72.5°	84.0	84.0	84.0	92.4	147.0	306.6	831.5	1499.2	1910.7	1963.2
75°	73.5	73.5	73.5	81.9	132.3	279.3	655.1	1114.9	1406.8	1482.4
77.5°	65.1	65.1	63.0	73.5	115.5	226.8	472.4	787.4	991.1	1054.0
80°	54.6	52.5	52.5	58.8	90.3	163.8	304.5	556.4	690.8	718.1
82.5°	44.1	42.0	39.9	44.1	65.1	102.9	189.0	388.4	443.0	426.2
85°	42.0	44.1	35.7	33.6	46.2	67.2	119.7	239.4	199.5	199.5
87.5°	16.8	14.7	14.7	12.6	23.1	25.2	52.5	44.1	33.6	33.6
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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