

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: P675911

Luminaire Tested: **CCW-SA-1D-840-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675911
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-840-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SLL distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

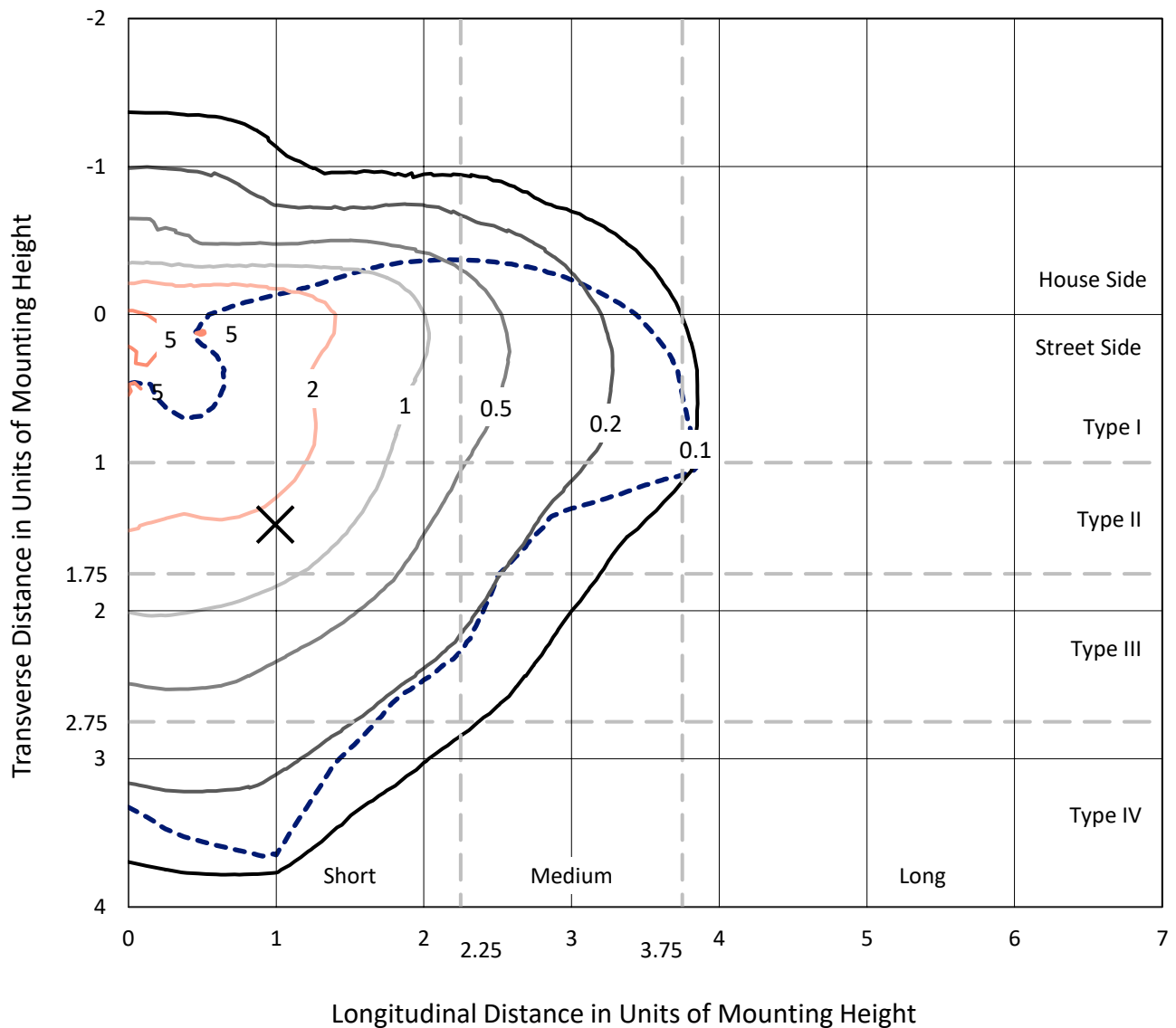
Lumens per Lamp: N/A
Luminaire Lumens: 3945.3 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

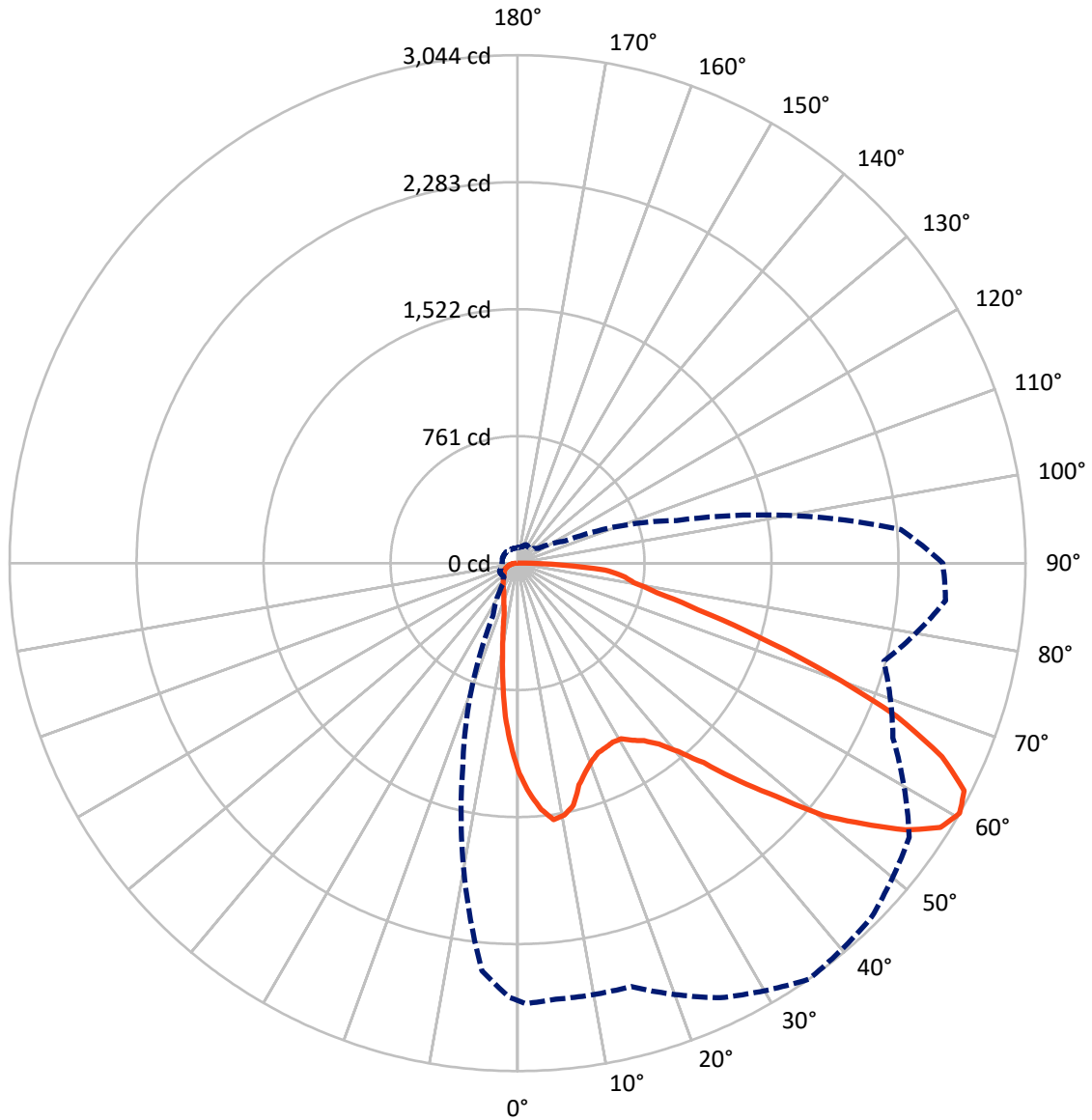
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.4 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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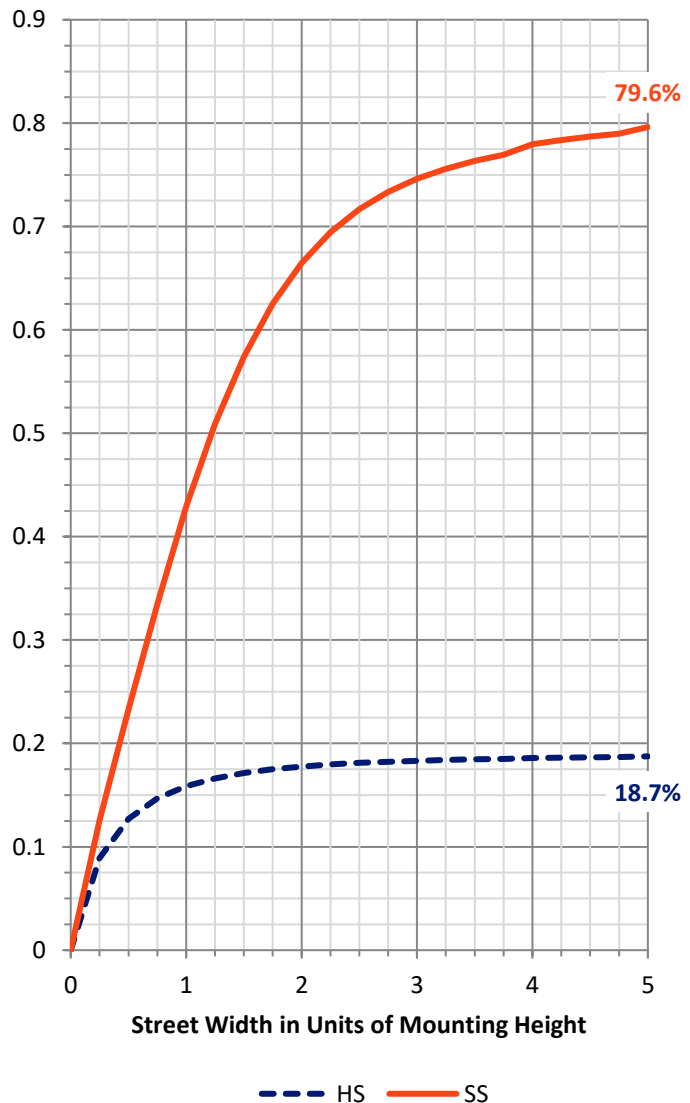
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	750.9	0.0	750.9
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3194.4	0.0	3194.4
	% Fixture	81.0	0.0	81.0
Total	Lumens	3945.3	0.0	3945.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	2.5
10°-20°	206.7	5.2
20°-30°	302.4	7.7
30°-40°	426.1	10.8
40°-50°	585.5	14.8
50°-60°	798.0	20.2
60°-70°	873.4	22.1
70°-80°	504.3	12.8
80°-90°	151.0	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°	3945.3	100.0
0°-180°	3945.3	100.0



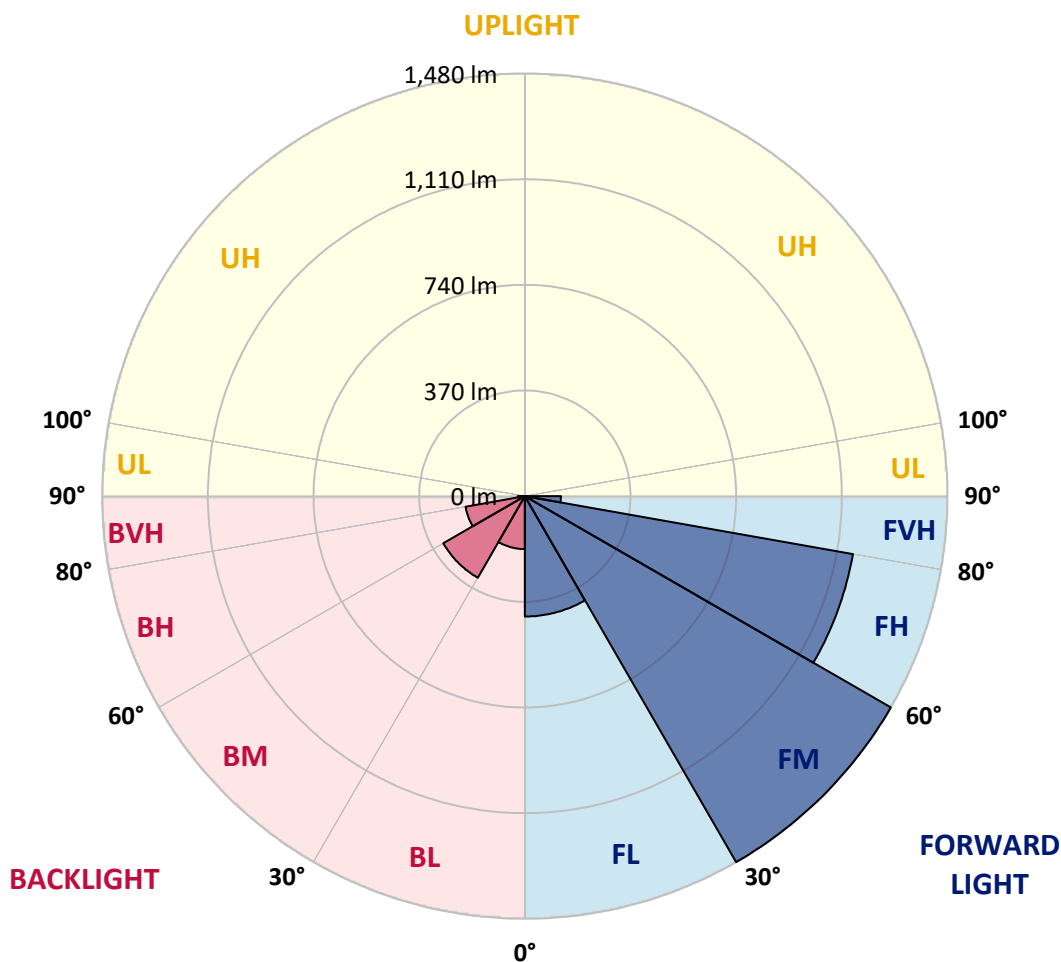
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.5	10.7			
FM (30°-60°)	1479.8	37.5			
FH (60°-80°)	1166.8	29.6			G1/1800
FVH (80°-90°)	126.4	3.2			G2/225
BL (0°-30°)	185.5	4.7	B1/500		
BM (30°-60°)	329.8	8.4	B1/1000		
BH (60°-80°)	210.9	5.3	B1/500		G1/500
BVH (80°-90°)	24.6	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°	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1
2.5°	1349.3	1344.1	1349.3	1368.6	1373.8	1382.6	1382.6	1370.3	1347.6	1337.1	1319.6
5°	1379.1	1370.3	1414.1	1454.3	1485.8	1482.3	1452.6	1428.1	1382.6	1314.3	1249.6
7.5°	1319.6	1328.3	1359.8	1464.8	1538.4	1552.4	1505.1	1456.1	1358.1	1263.6	1176.1
10°	1207.6	1219.8	1288.1	1396.6	1512.1	1534.9	1505.1	1445.6	1328.3	1211.1	1109.6
12.5°	1153.3	1181.3	1221.6	1352.8	1435.1	1489.3	1475.3	1436.8	1305.6	1167.3	1069.3
15°	1153.3	1160.3	1219.8	1330.1	1377.3	1379.1	1384.3	1391.3	1312.6	1186.6	1055.3
17.5°	1190.1	1209.3	1260.1	1328.3	1337.1	1316.1	1316.1	1345.8	1326.6	1240.8	1106.1
20°	1279.3	1272.3	1338.8	1366.8	1319.6	1267.1	1261.8	1312.6	1342.3	1298.6	1198.8
22.5°	1368.6	1400.1	1454.3	1391.3	1303.8	1233.8	1226.8	1289.8	1389.6	1398.3	1305.6
25°	1503.4	1534.9	1562.9	1485.8	1302.1	1225.1	1230.3	1279.3	1447.3	1540.1	1484.1
27.5°	1648.6	1667.9	1708.1	1589.1	1344.1	1214.6	1219.8	1293.3	1501.6	1632.9	1624.1
30°	1730.9	1751.9	1743.1	1608.4	1372.1	1221.6	1207.6	1312.6	1471.8	1632.9	1715.1
32.5°	1811.4	1799.1	1793.9	1639.9	1407.1	1265.3	1230.3	1352.8	1489.3	1659.1	1832.4
35°	1909.4	1891.9	1877.9	1701.1	1464.8	1307.3	1291.6	1405.3	1527.9	1713.4	1926.9
37.5°	2017.9	2017.9	1949.6	1746.6	1533.1	1375.6	1358.1	1480.6	1589.1	1746.6	2056.4
40°	2145.6	2150.9	2030.1	1807.9	1610.1	1484.1	1478.8	1578.6	1648.6	1795.6	2180.6
42.5°	2240.2	2243.7	2100.1	1830.6	1699.4	1634.6	1657.4	1736.1	1716.9	1839.4	2189.4
45°	2304.9	2287.4	2149.1	1895.4	1797.4	1860.4	1867.4	1890.1	1806.1	1865.6	2224.4
47.5°	2336.4	2332.9	2170.1	1970.6	2003.9	2089.6	2129.9	2098.4	1888.4	1837.6	2224.4
50°	2367.9	2338.2	2189.4	2073.9	2205.1	2378.4	2369.7	2311.9	2002.1	1872.6	2191.1
52.5°	2388.9	2362.7	2227.9	2166.6	2397.7	2593.7	2628.7	2521.9	2135.1	1937.4	2206.9
55°	2464.2	2443.2	2343.4	2292.7	2619.9	2821.2	2826.4	2677.7	2275.2	2044.1	2310.2
57.5°	2555.2	2567.4	2502.7	2471.2	2789.7	2987.5	2968.2	2793.2	2394.2	2173.6	2429.2
60°	2619.9	2639.2	2623.4	2626.9	2873.7	3043.5	2999.7	2864.9	2481.7	2271.7	2574.4
62.5°	2584.9	2623.4	2688.2	2674.2	2877.2	3003.2	2941.9	2770.4	2492.2	2399.4	2684.7
65°	2488.7	2492.2	2618.2	2695.2	2719.7	2794.9	2714.4	2572.7	2383.7	2478.2	2668.9
67.5°	2241.9	2269.9	2383.7	2534.2	2430.9	2448.4	2441.4	2236.7	2219.1	2423.9	2548.2
70°	1979.4	1998.6	2122.9	2299.7	2052.9	1970.6	1986.4	1834.1	1905.9	2255.9	2304.9
72.5°	1636.4	1648.6	1790.4	1946.1	1646.9	1499.9	1536.6	1412.3	1513.9	1974.1	1944.4
75°	1235.6	1258.3	1368.6	1552.4	1212.8	1118.3	1155.1	1104.3	1198.8	1625.9	1508.6
77.5°	878.6	861.1	997.6	1214.6	911.8	855.8	859.3	868.1	969.6	1370.3	1083.3
80°	598.5	603.8	726.3	890.8	715.8	707.0	698.3	768.3	813.8	1085.1	787.6
82.5°	355.3	355.3	490.0	633.5	565.3	637.0	596.8	659.8	637.0	798.1	516.3
85°	166.3	166.3	252.0	456.8	437.5	525.0	446.3	498.8	470.8	556.5	232.8
87.5°	28.0	24.5	50.8	224.0	180.3	204.8	80.5	266.0	295.8	388.5	57.8
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°	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1
2.5°	1300.3	1288.1	1263.6	1232.1	1205.8	1172.6	1162.1	1139.3	1107.8	1104.3	1090.3
5°	1225.1	1183.1	1130.6	1065.8	1022.1	976.6	938.1	915.3	889.1	885.6	878.6
7.5°	1142.8	1090.3	1002.8	925.8	850.6	778.8	743.8	700.0	670.3	647.5	637.0
10°	1065.8	1016.8	908.3	803.3	736.8	689.5	647.5	602.0	565.3	537.3	526.8
12.5°	1015.1	957.3	840.1	740.3	691.3	637.0	589.8	540.8	493.5	456.8	437.5
15°	992.3	938.1	819.1	708.8	637.0	561.8	507.5	458.5	400.8	374.5	365.8
17.5°	1046.6	966.1	812.1	672.0	570.5	484.8	418.3	365.8	323.8	297.5	287.0
20°	1116.6	1016.8	824.3	628.3	507.5	411.3	337.8	281.8	253.8	234.5	232.8
22.5°	1205.8	1092.1	843.6	596.8	437.5	330.8	264.3	231.0	211.8	210.0	206.5
25°	1365.1	1228.6	875.1	554.8	381.5	273.0	225.8	206.5	197.8	192.5	196.0
27.5°	1501.6	1317.8	897.8	528.5	358.8	257.3	218.8	197.8	189.0	187.3	189.0
30°	1582.1	1400.1	890.8	479.5	313.3	245.0	232.8	225.8	208.3	194.3	194.3
32.5°	1655.6	1452.6	889.1	435.8	267.8	204.8	194.3	189.0	199.5	206.5	201.3
35°	1757.1	1534.9	883.8	411.3	248.5	189.0	171.5	157.5	150.5	147.0	152.3
37.5°	1865.6	1590.9	869.8	407.8	238.0	180.3	166.3	152.3	145.3	141.8	140.0
40°	1984.6	1650.4	854.1	390.3	232.8	175.0	161.0	148.8	140.0	134.8	133.0
42.5°	2061.6	1697.6	838.3	381.5	222.3	171.5	155.8	145.3	136.5	129.5	129.5
45°	2105.4	1753.6	822.6	372.8	210.0	173.3	155.8	141.8	131.3	127.8	124.3
47.5°	2124.6	1795.6	817.3	358.8	199.5	166.3	152.3	138.3	127.8	120.8	119.0
50°	2175.4	1884.9	836.6	348.3	187.3	159.3	161.0	136.5	126.0	117.3	115.5
52.5°	2205.1	1956.6	878.6	332.5	178.5	150.5	157.5	133.0	120.8	112.0	112.0
55°	2313.7	2075.6	924.1	320.3	168.0	138.3	145.3	126.0	112.0	106.8	106.8
57.5°	2451.9	2201.6	962.6	315.0	161.0	129.5	129.5	122.5	106.8	99.8	98.0
60°	2548.2	2304.9	985.3	311.5	154.0	120.8	115.5	122.5	101.5	94.5	92.8
62.5°	2558.7	2245.4	962.6	309.8	152.3	112.0	105.0	117.3	96.3	89.3	85.8
65°	2492.2	2124.6	899.6	302.8	150.5	103.3	98.0	101.5	89.3	84.0	80.5
67.5°	2359.2	1928.6	808.6	299.3	148.8	96.3	89.3	87.5	82.3	77.0	73.5
70°	2049.4	1673.1	701.8	283.5	145.3	91.0	80.5	78.8	73.5	70.0	68.3
72.5°	1720.4	1368.6	579.3	262.5	138.3	82.3	73.5	70.0	68.3	63.0	61.3
75°	1317.8	1053.6	463.8	232.8	120.8	73.5	64.8	61.3	59.5	56.0	54.3
77.5°	925.8	784.1	343.0	189.0	101.5	66.5	57.8	54.3	52.5	47.3	47.3
80°	628.3	549.5	232.8	131.3	78.8	54.3	50.8	47.3	43.8	40.3	40.3
82.5°	390.3	385.0	168.0	85.8	57.8	43.8	40.3	40.3	35.0	31.5	31.5
85°	178.5	236.3	117.3	59.5	43.8	33.3	33.3	31.5	28.0	22.8	22.8
87.5°	56.0	78.8	61.3	26.3	24.5	19.3	19.3	17.5	17.5	14.0	14.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1
2.5°	1104.3	1102.6	1102.6	1095.6	1113.1	1113.1	1123.6	1114.8	1120.1	1121.8	1135.8
5°	876.8	890.8	901.3	922.3	934.6	939.8	939.8	953.8	948.6	959.1	980.1
7.5°	642.3	659.8	691.3	717.5	738.5	745.6	743.8	747.3	752.6	740.3	743.8
10°	519.8	507.5	518.0	542.5	561.8	584.5	567.0	565.3	570.5	565.3	575.8
12.5°	434.0	420.0	411.3	411.3	425.3	435.8	430.5	439.3	458.5	463.8	476.0
15°	351.8	339.5	332.5	323.8	337.8	341.3	346.5	358.8	372.8	379.8	393.8
17.5°	281.8	281.8	281.8	274.8	280.0	285.3	287.0	302.8	304.5	311.5	316.8
20°	231.0	236.3	245.0	248.5	253.8	253.8	250.3	259.0	252.0	257.3	260.8
22.5°	208.3	215.3	218.8	220.5	227.5	229.3	220.5	222.3	224.0	218.8	220.5
25°	196.0	199.5	196.0	197.8	199.5	196.0	197.8	201.3	199.5	203.0	201.3
27.5°	190.8	187.3	185.5	183.8	183.8	180.3	182.0	182.0	185.5	187.3	187.3
30°	190.8	185.5	178.5	173.3	173.3	168.0	171.5	175.0	176.8	180.3	180.3
32.5°	196.0	185.5	173.3	168.0	162.8	159.3	162.8	168.0	175.0	176.8	178.5
35°	155.8	161.0	159.3	152.3	150.5	150.5	148.8	148.8	143.5	143.5	141.8
37.5°	140.0	138.3	141.8	143.5	145.3	140.0	140.0	133.0	131.3	133.0	133.0
40°	131.3	131.3	131.3	136.5	138.3	134.8	129.5	126.0	126.0	126.0	127.8
42.5°	127.8	124.3	122.5	126.0	131.3	127.8	122.5	120.8	120.8	122.5	122.5
45°	122.5	120.8	119.0	117.3	124.3	119.0	117.3	115.5	115.5	115.5	117.3
47.5°	117.3	115.5	112.0	112.0	113.8	112.0	110.3	110.3	110.3	113.8	113.8
50°	113.8	112.0	108.5	108.5	108.5	108.5	106.8	106.8	106.8	108.5	110.3
52.5°	108.5	106.8	105.0	103.3	103.3	103.3	103.3	103.3	103.3	105.0	106.8
55°	103.3	101.5	99.8	99.8	101.5	101.5	99.8	101.5	99.8	101.5	103.3
57.5°	98.0	96.3	94.5	96.3	98.0	96.3	96.3	96.3	96.3	96.3	98.0
60°	91.0	91.0	91.0	91.0	94.5	94.5	94.5	94.5	91.0	92.8	94.5
62.5°	87.5	85.8	85.8	87.5	89.3	89.3	91.0	89.3	87.5	89.3	89.3
65°	80.5	80.5	80.5	82.3	82.3	84.0	84.0	84.0	82.3	84.0	84.0
67.5°	75.3	75.3	75.3	75.3	78.8	78.8	78.8	78.8	77.0	77.0	78.8
70°	66.5	68.3	66.5	70.0	73.5	71.8	73.5	73.5	71.8	70.0	73.5
72.5°	61.3	61.3	61.3	61.3	66.5	66.5	66.5	68.3	66.5	64.8	66.5
75°	54.3	54.3	54.3	56.0	59.5	59.5	59.5	59.5	59.5	57.8	57.8
77.5°	47.3	49.0	47.3	49.0	52.5	50.8	52.5	54.3	52.5	50.8	50.8
80°	40.3	40.3	40.3	42.0	43.8	43.8	43.8	45.5	43.8	42.0	42.0
82.5°	31.5	31.5	33.3	33.3	35.0	35.0	35.0	36.8	35.0	33.3	33.3
85°	24.5	24.5	24.5	26.3	26.3	28.0	28.0	29.8	29.8	28.0	28.0
87.5°	15.8	14.0	15.8	15.8	17.5	17.5	15.8	14.0	15.8	14.0	12.3
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°	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1	1260.1
2.5°	1149.8	1181.3	1204.1	1219.8	1242.6	1286.3	1303.8	1335.3	1344.1	1349.3
5°	988.8	1022.1	1071.1	1106.1	1146.3	1228.6	1291.6	1338.8	1359.8	1379.1
7.5°	775.3	819.1	869.8	915.3	981.8	1083.3	1165.6	1263.6	1300.3	1319.6
10°	605.5	645.8	701.8	757.8	850.6	936.3	1053.6	1142.8	1193.6	1207.6
12.5°	511.0	558.3	624.8	693.0	750.8	848.8	967.8	1097.3	1144.6	1153.3
15°	434.0	498.8	567.0	637.0	703.5	789.3	917.1	1074.6	1144.6	1153.3
17.5°	358.8	416.5	497.0	572.3	649.3	766.6	925.8	1093.8	1163.8	1190.1
20°	285.3	341.3	404.3	498.8	603.8	728.0	945.1	1158.6	1251.3	1279.3
22.5°	236.3	260.8	322.0	413.0	537.3	701.8	964.3	1260.1	1358.1	1368.6
25°	206.5	224.0	262.5	348.3	484.8	684.3	1009.8	1377.3	1503.4	1503.4
27.5°	192.5	199.5	225.8	302.8	448.0	668.5	1055.3	1506.9	1624.1	1648.6
30°	189.0	206.5	220.5	269.5	407.8	624.8	1097.3	1608.4	1729.1	1730.9
32.5°	185.5	182.0	192.5	234.5	358.8	579.3	1132.3	1711.6	1806.1	1811.4
35°	145.3	152.3	169.8	206.5	322.0	546.0	1149.8	1767.6	1904.1	1909.4
37.5°	136.5	145.3	159.3	190.8	297.5	518.0	1155.1	1876.1	2007.4	2017.9
40°	133.0	140.0	150.5	176.8	278.3	483.0	1165.6	1988.1	2159.6	2145.6
42.5°	126.0	134.8	145.3	169.8	262.5	456.8	1167.3	2049.4	2240.2	2240.2
45°	124.3	129.5	141.8	169.8	245.0	434.0	1139.3	2110.6	2332.9	2304.9
47.5°	117.3	127.8	138.3	164.5	224.0	411.3	1106.1	2142.1	2345.2	2336.4
50°	115.5	126.0	143.5	155.8	211.8	400.8	1099.1	2220.9	2369.7	2367.9
52.5°	112.0	122.5	148.8	148.8	196.0	386.8	1132.3	2255.9	2374.9	2388.9
55°	106.8	122.5	138.3	136.5	182.0	369.3	1169.1	2346.9	2467.7	2464.2
57.5°	103.3	119.0	131.3	124.3	166.3	357.0	1223.3	2434.4	2579.7	2555.2
60°	98.0	119.0	117.3	115.5	154.0	346.5	1268.8	2451.9	2604.2	2619.9
62.5°	94.5	124.3	103.3	106.8	143.5	341.3	1249.6	2320.7	2570.9	2584.9
65°	91.0	106.8	94.5	98.0	140.0	330.8	1174.3	2163.1	2427.4	2488.7
67.5°	84.0	87.5	87.5	91.0	136.5	306.3	1020.3	1879.6	2208.6	2241.9
70°	77.0	78.8	78.8	84.0	133.0	278.3	841.8	1625.9	1916.4	1979.4
72.5°	70.0	70.0	70.0	77.0	122.5	255.5	693.0	1249.6	1592.6	1636.4
75°	61.3	61.3	61.3	68.3	110.3	232.8	546.0	929.3	1172.6	1235.6
77.5°	54.3	54.3	52.5	61.3	96.3	189.0	393.8	656.3	826.1	878.6
80°	45.5	43.8	43.8	49.0	75.3	136.5	253.8	463.8	575.8	598.5
82.5°	36.8	35.0	33.3	36.8	54.3	85.8	157.5	323.8	369.3	355.3
85°	35.0	36.8	29.8	28.0	38.5	56.0	99.8	199.5	166.3	166.3
87.5°	14.0	12.3	12.3	10.5	19.3	21.0	43.8	36.8	28.0	28.0
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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