

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: P676113

Luminaire Tested: **CCW-SA-1F-730-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676113
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-730-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
T1 distribution lens
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

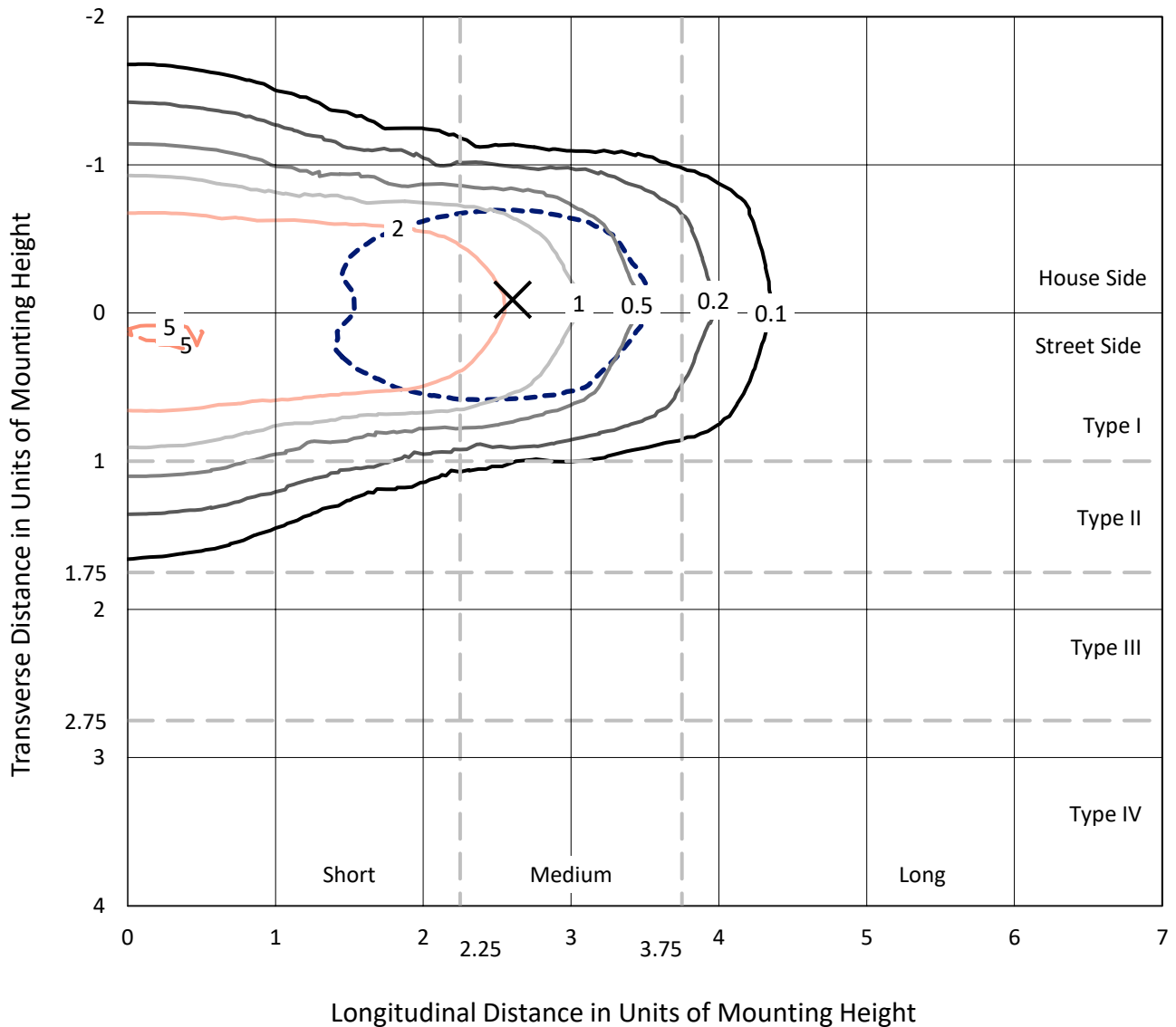
Lumens per Lamp: N/A
Luminaire Lumens: 6648.4 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 67
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

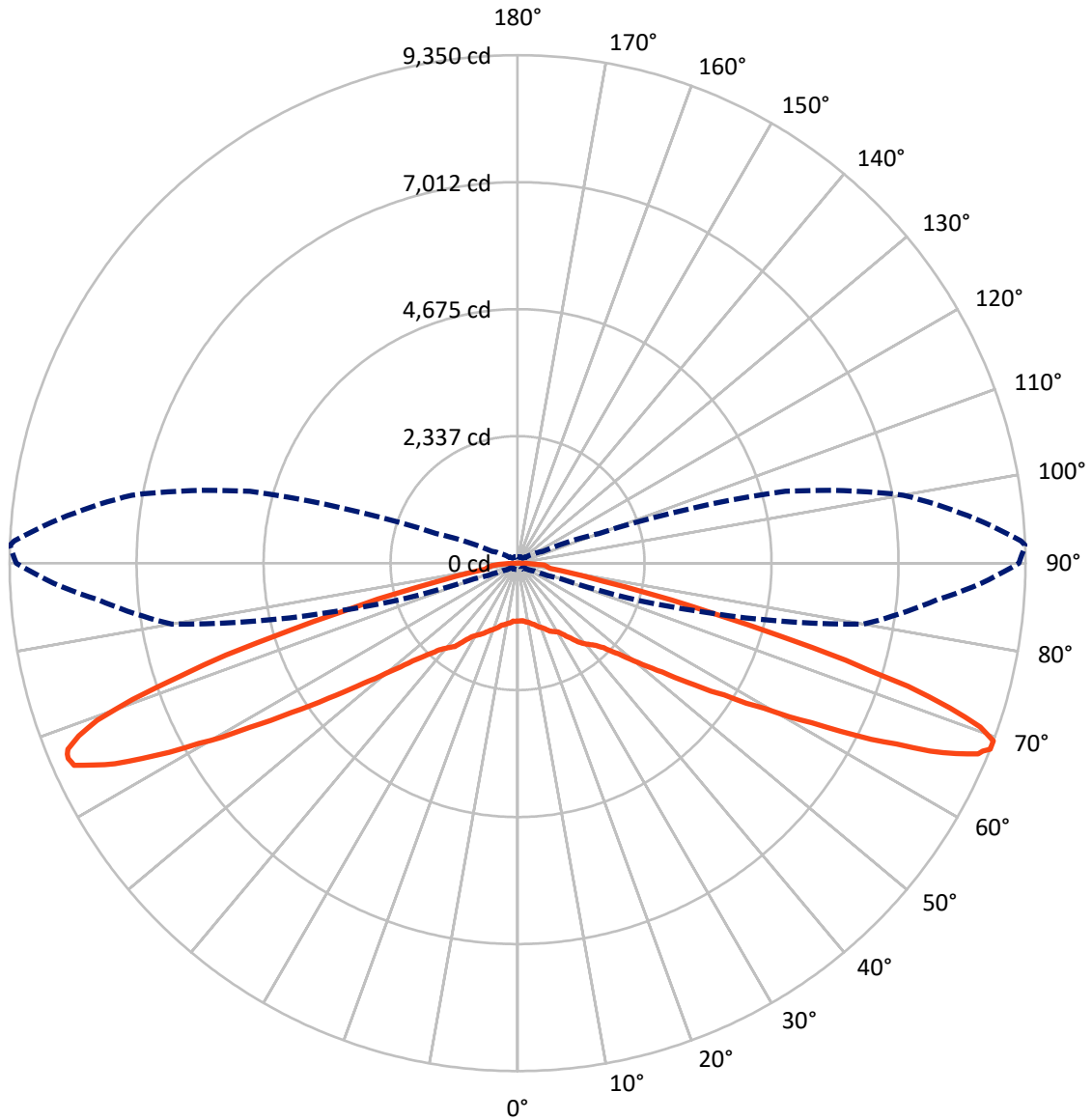
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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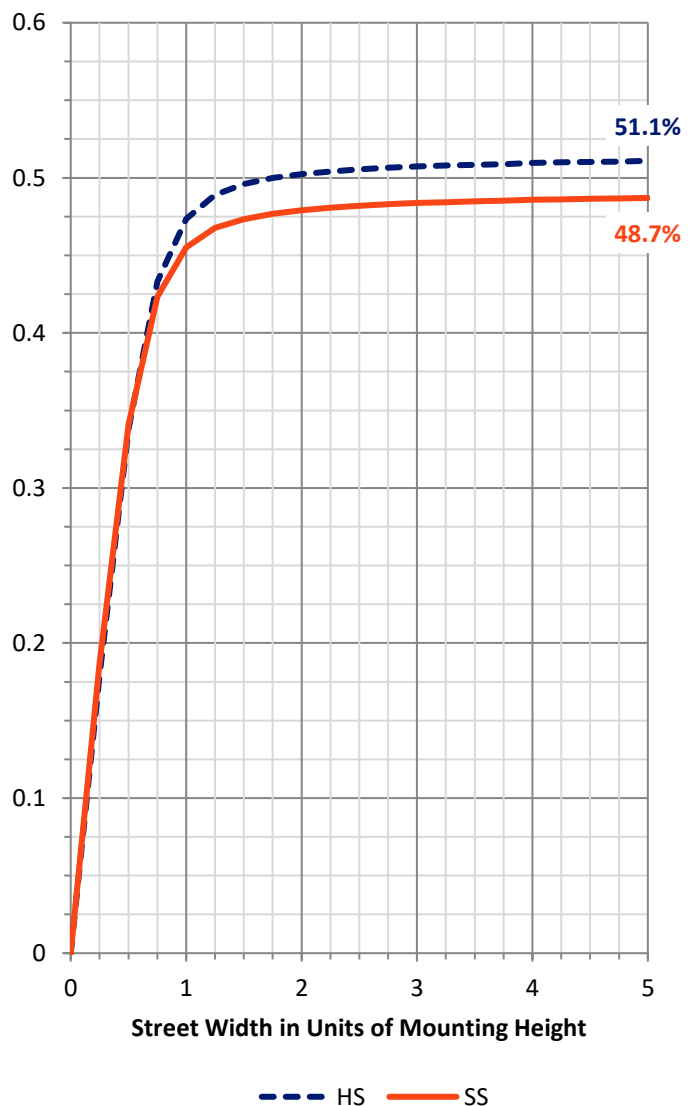
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3423.8	0.0	3423.8
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	3224.6	0.0	3224.6
	% Fixture	48.5	0.0	48.5
Total	Lumens	6648.4	0.0	6648.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	1.6
10°-20°	344.9	5.2
20°-30°	588.6	8.9
30°-40°	821.8	12.4
40°-50°	1045.4	15.7
50°-60°	1321.8	19.9
60°-70°	1630.1	24.5
70°-80°	712.1	10.7
80°-90°	77.2	1.2
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°	6648.4	100.0
0°-180°	6648.4	100.0



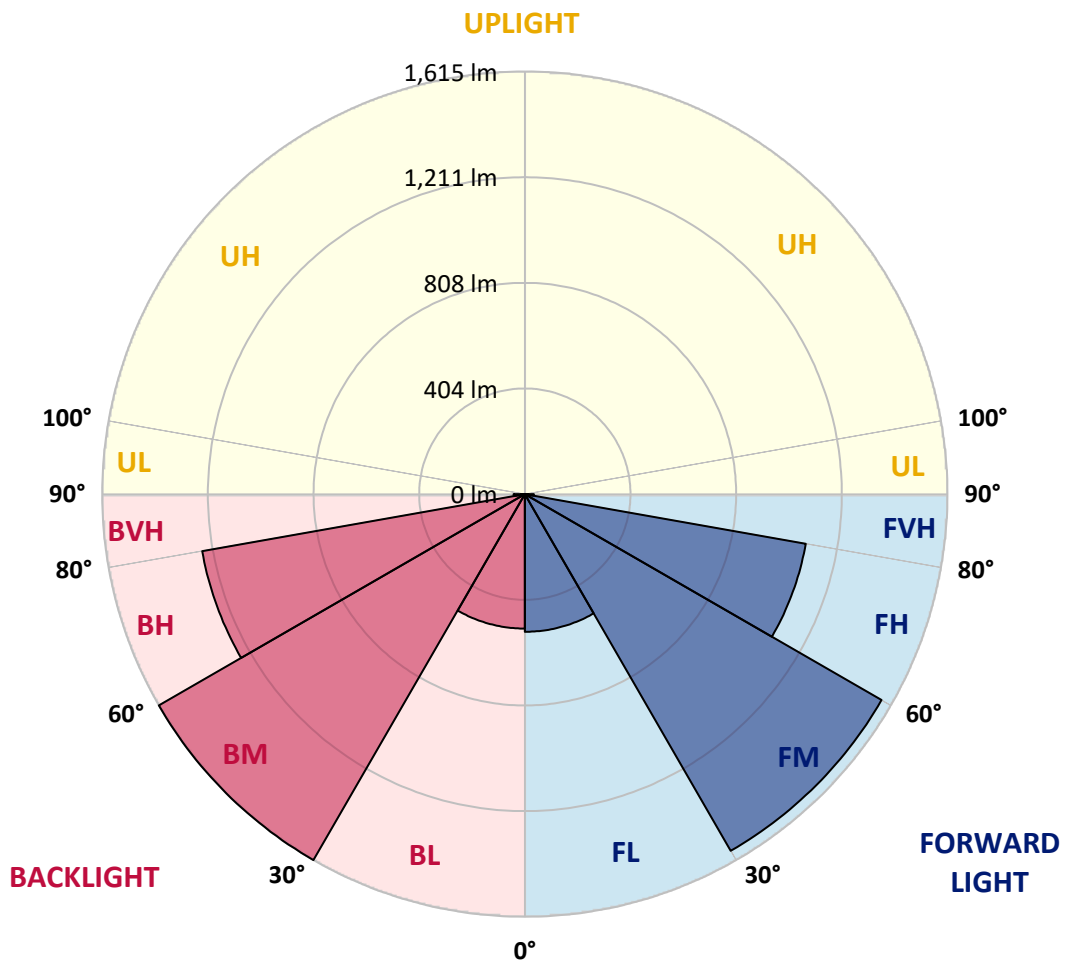
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.2	7.9			
FM (30°-60°)	1574.0	23.7			
FH (60°-80°)	1090.2	16.4			G1/1800
FVH (80°-90°)	34.2	0.5			G1/100
BL (0°-30°)	513.8	7.7	B2/1000		
BM (30°-60°)	1615.0	24.3	B2/2500		
BH (60°-80°)	1252.0	18.8	B3/2500		G3/2500
BVH (80°-90°)	43.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1
2.5°	1085.6	1084.3	1088.1	1090.6	1079.3	1083.1	1080.6	1078.1	1069.4	1065.6	1058.1
5°	1115.5	1119.3	1131.8	1120.5	1125.5	1119.3	1099.3	1105.6	1094.3	1091.8	1084.3
7.5°	1167.9	1160.5	1177.9	1165.4	1169.2	1156.7	1148.0	1136.7	1134.3	1116.8	1118.0
10°	1179.2	1194.1	1201.6	1199.1	1201.6	1207.9	1191.7	1174.2	1150.5	1145.5	1128.0
12.5°	1171.7	1185.4	1205.4	1221.6	1232.8	1235.3	1229.1	1225.3	1215.4	1186.7	1185.4
15°	1164.2	1154.2	1166.7	1222.8	1260.3	1285.2	1294.0	1272.8	1275.3	1237.8	1222.8
17.5°	1114.3	1099.3	1148.0	1202.9	1249.1	1304.0	1346.4	1340.1	1340.1	1310.2	1289.0
20°	1048.2	1073.1	1098.1	1167.9	1252.8	1335.1	1416.3	1412.5	1397.5	1388.8	1342.6
22.5°	992.0	1003.2	1049.4	1123.0	1229.1	1343.9	1440.0	1508.6	1473.7	1438.7	1411.3
25°	953.3	943.3	1002.0	1078.1	1206.6	1328.9	1484.9	1556.0	1574.7	1548.5	1496.1
27.5°	898.4	898.4	944.6	1017.0	1134.3	1321.4	1528.6	1637.1	1664.6	1625.9	1549.8
30°	836.0	843.5	883.4	965.8	1080.6	1266.5	1546.0	1730.7	1753.2	1719.5	1640.9
32.5°	787.4	787.4	832.3	919.6	1043.2	1241.6	1534.8	1823.0	1865.5	1840.5	1759.4
35°	735.0	731.2	763.7	859.7	983.3	1192.9	1531.1	1896.7	1991.5	1992.7	1907.9
37.5°	660.1	675.1	716.2	792.4	935.9	1145.5	1519.8	1985.3	2155.0	2183.7	2125.0
40°	610.2	616.4	653.8	737.5	862.2	1089.3	1503.6	2057.6	2263.5	2362.1	2281.0
42.5°	537.8	546.5	575.2	678.8	791.1	1009.5	1432.5	2108.8	2418.2	2530.5	2461.9
45°	461.7	466.7	509.1	594.0	715.0	914.6	1356.4	2191.1	2568.0	2797.6	2757.6
47.5°	370.6	373.1	409.3	497.9	623.9	819.8	1239.1	2187.4	2689.0	3064.6	3176.9
50°	289.5	295.7	323.2	395.6	514.1	703.8	1103.1	2157.5	2841.2	3369.1	3589.9
52.5°	230.8	232.1	249.6	307.0	396.8	587.7	957.1	2062.6	2984.7	3667.3	4096.5
55°	190.9	190.9	200.9	235.8	304.5	446.7	786.1	1905.4	3002.2	3996.7	4649.3
56°	183.4	180.9	189.7	219.6	274.5	403.0	706.3	1799.3	3027.2	4148.9	4926.3
57°	173.4	174.7	179.7	200.9	247.1	356.9	617.7	1695.8	3009.7	4273.7	5131.0
58°	168.5	166.0	175.9	189.7	218.4	316.9	556.5	1573.5	2982.2	4376.0	5429.2
59°	161.0	159.7	166.0	178.4	203.4	282.0	481.7	1441.2	2928.6	4508.3	5651.3
60°	158.5	157.2	159.7	169.7	187.2	247.1	424.3	1286.5	2785.1	4644.3	5927.1
61°	151.0	152.2	157.2	163.5	177.2	222.1	381.8	1128.0	2691.5	4759.1	6231.5
62°	152.2	149.7	152.2	157.2	167.2	204.6	334.4	972.0	2524.3	4888.9	6459.9
63°	144.7	143.5	147.2	153.5	158.5	184.7	292.0	839.8	2334.6	4918.8	6653.3
64°	142.2	141.0	142.2	151.0	152.2	173.4	258.3	717.5	2060.1	4970.0	6901.6
65°	136.0	136.0	138.5	142.2	147.2	163.5	230.8	622.7	1786.9	4835.2	6977.7
66°	131.0	132.3	132.3	138.5	142.2	152.2	212.1	529.1	1524.8	4620.6	7051.3
67°	127.3	127.3	128.5	133.5	137.3	143.5	190.9	457.9	1286.5	4364.8	6937.8
67.5°	124.8	126.0	126.0	131.0	134.8	143.5	182.2	434.2	1150.5	4084.1	6852.9
68°	121.0	122.3	122.3	127.3	131.0	138.5	175.9	396.8	1060.6	3901.9	6695.7
69°	118.5	117.3	117.3	122.3	127.3	132.3	163.5	346.9	843.5	3392.8	6466.1
70°	111.1	111.1	113.6	117.3	121.0	126.0	151.0	305.7	713.7	2808.8	5874.7
71°	107.3	106.1	107.3	111.1	114.8	121.0	138.5	270.8	584.0	2332.1	5293.2
72°	99.8	102.3	102.3	106.1	109.8	113.6	129.8	235.8	490.4	1864.2	4653.1
72.5°	98.6	98.6	99.8	103.6	106.1	112.3	124.8	225.9	448.0	1643.4	4384.8
73°	94.8	94.8	96.1	99.8	102.3	108.6	121.0	203.4	408.0	1462.4	3883.2
74°	91.1	89.8	89.8	94.8	96.1	102.3	113.6	179.7	341.9	1101.8	3117.0
75°	84.9	84.9	86.1	88.6	89.8	94.8	104.8	159.7	288.2	854.7	2438.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	69.9	71.1	72.4	74.9	74.9	78.6	86.1	111.1	175.9	433.0	1119.3
80°	51.2	53.7	57.4	61.1	59.9	59.9	67.4	79.9	104.8	194.7	429.2
82.5°	41.2	43.7	39.9	44.9	44.9	42.4	48.7	58.6	71.1	96.1	153.5
85°	27.5	28.7	23.7	27.5	26.2	26.2	32.4	34.9	43.7	53.7	76.1
87.5°	12.5	12.5	10.0	11.2	11.2	11.2	16.2	12.5	18.7	26.2	44.9
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):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1
2.5°	1065.6	1070.6	1070.6	1065.6	1061.9	1065.6	1063.1	1056.9	1063.1	1065.6	1066.9
5°	1080.6	1070.6	1075.6	1064.4	1071.9	1070.6	1068.1	1074.4	1075.6	1075.6	1084.3
7.5°	1096.8	1109.3	1093.1	1094.3	1098.1	1083.1	1088.1	1090.6	1085.6	1095.6	1103.1
10°	1125.5	1130.5	1125.5	1106.8	1119.3	1109.3	1105.6	1116.8	1114.3	1116.8	1128.0
12.5°	1151.7	1160.5	1146.7	1145.5	1139.2	1130.5	1135.5	1134.3	1151.7	1154.2	1167.9
15°	1205.4	1182.9	1177.9	1176.7	1174.2	1170.4	1172.9	1174.2	1196.6	1200.4	1232.8
17.5°	1251.5	1247.8	1220.4	1230.3	1230.3	1215.4	1209.1	1230.3	1247.8	1266.5	1289.0
20°	1299.0	1295.2	1265.3	1266.5	1255.3	1269.0	1261.5	1281.5	1311.4	1317.7	1337.6
22.5°	1355.1	1338.9	1317.7	1320.2	1323.9	1313.9	1308.9	1336.4	1366.3	1383.8	1385.1
25°	1443.7	1402.5	1385.1	1387.6	1382.6	1375.1	1378.8	1413.8	1428.7	1466.2	1458.7
27.5°	1491.1	1467.4	1454.9	1426.2	1427.5	1416.3	1431.2	1483.6	1513.6	1542.3	1484.9
30°	1548.5	1533.5	1478.6	1468.7	1467.4	1462.4	1489.9	1557.3	1602.2	1618.4	1536.0
32.5°	1660.8	1600.9	1587.2	1578.5	1558.5	1564.7	1578.5	1667.1	1738.2	1734.4	1583.5
35°	1789.3	1748.2	1709.5	1702.0	1699.5	1682.0	1705.7	1809.3	1864.2	1848.0	1600.9
37.5°	1995.2	1932.8	1880.4	1851.7	1846.7	1834.3	1890.4	1972.8	2043.9	1980.3	1614.7
40°	2096.3	2026.4	1977.8	1960.3	1964.0	1981.5	2036.4	2162.4	2193.6	2076.3	1625.9
42.5°	2241.1	2164.9	2068.9	2060.1	2048.9	2057.6	2163.7	2333.4	2359.6	2206.1	1583.5
45°	2498.1	2383.3	2272.2	2222.3	2224.8	2248.5	2413.2	2599.2	2550.5	2296.0	1516.1
47.5°	2822.5	2654.1	2564.2	2496.9	2529.3	2503.1	2765.1	2913.6	2747.7	2409.5	1433.7
50°	3310.4	3074.6	2952.3	2871.2	2884.9	2907.4	3173.2	3299.2	2966.0	2464.4	1307.7
52.5°	3925.6	3622.4	3442.7	3334.1	3344.1	3392.8	3735.9	3697.2	3215.6	2510.6	1139.2
55°	4661.8	4349.8	4001.7	3956.8	3945.6	4061.6	4439.7	4114.0	3440.2	2437.0	964.6
56°	5051.1	4719.2	4357.3	4265.0	4237.5	4318.6	4762.9	4322.4	3517.6	2354.6	880.9
57°	5381.8	5064.8	4668.0	4510.8	4545.7	4698.0	5083.5	4518.3	3588.7	2269.8	802.3
58°	5836.0	5474.1	5054.8	4935.1	4903.9	5024.9	5429.2	4715.4	3612.4	2182.4	730.0
59°	6288.9	5854.7	5476.6	5258.2	5267.0	5487.8	5769.8	4950.0	3648.6	2071.4	637.6
60°	6633.3	6415.0	5909.6	5746.1	5723.7	6043.1	6109.2	5107.3	3687.3	1921.6	572.7
61°	7121.2	6836.7	6366.3	6155.4	6216.6	6472.4	6476.1	5304.4	3629.9	1731.9	492.9
62°	7471.8	7397.0	6902.8	6701.9	6683.2	7022.6	6857.9	5477.9	3579.9	1552.3	435.5
63°	7882.4	7882.4	7431.9	7274.7	7283.4	7551.7	7023.9	5651.3	3522.5	1353.9	383.1
64°	8095.7	8364.0	7948.5	7727.6	7785.0	8017.1	7319.6	5764.8	3345.4	1153.0	336.9
65°	8280.4	8683.5	8452.6	8350.3	8262.9	8400.2	7575.4	5870.9	3074.6	980.8	299.5
66°	8436.4	8984.2	8908.1	8798.3	8789.5	8758.3	7625.3	5867.2	2795.1	828.5	262.0
67°	8357.8	8990.4	9128.9	9175.1	9161.4	8831.9	7538.0	5733.7	2437.0	700.0	233.3
67.5°	8286.7	8939.3	9261.2	9235.0	9292.4	8894.3	7552.9	5570.2	2182.4	633.9	219.6
68°	8224.3	8870.6	9314.8	9348.5	9319.8	8901.8	7470.6	5440.4	2009.0	595.2	207.1
69°	7751.3	8544.9	9228.7	9349.8	9276.2	8616.1	7208.6	5102.3	1595.9	507.9	190.9
70°	7277.2	8123.2	8810.7	9032.8	8941.8	8063.3	6877.9	4564.5	1316.4	434.2	172.2
71°	6620.8	7339.6	8254.2	8387.7	8277.9	7434.4	6194.1	3996.7	1024.4	368.1	153.5
72°	5729.9	6340.1	7213.5	7536.7	7374.5	6529.7	5502.8	3302.9	829.8	309.5	139.8
72.5°	5288.2	5913.3	6755.6	6781.8	6813.0	6136.7	5209.6	2901.1	723.7	287.0	136.0
73°	4868.9	5481.6	6210.3	6302.6	6170.4	5474.1	4771.6	2594.2	661.3	262.0	131.0
74°	3945.6	4294.9	4898.9	4988.7	4872.7	4463.4	3899.4	1989.0	526.6	225.9	119.8
75°	3104.5	3296.7	3843.2	3788.3	3614.9	3471.4	3023.4	1519.8	426.7	198.4	111.1



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1395.0	1511.1	1602.2	1602.2	1612.2	1538.5	1393.8	697.5	263.3	143.5	91.1
80°	531.6	595.2	615.2	616.4	625.1	647.6	602.7	343.1	156.0	102.3	73.6
82.5°	385.6	539.1	580.2	550.3	552.8	499.1	230.8	152.2	98.6	71.1	53.7
85°	349.4	469.2	496.6	492.9	494.1	461.7	136.0	74.9	57.4	44.9	37.4
87.5°	169.7	166.0	175.9	198.4	193.4	250.8	114.8	37.4	25.0	18.7	18.7
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):

	135°	145°	155°	165°	175°	180°
0°	1063.1	1063.1	1063.1	1063.1	1063.1	1063.1
2.5°	1056.9	1055.6	1073.1	1055.6	1065.6	1058.1
5°	1069.4	1074.4	1078.1	1085.6	1068.1	1085.6
7.5°	1106.8	1111.8	1113.0	1119.3	1111.8	1110.5
10°	1135.5	1148.0	1155.5	1130.5	1145.5	1144.2
12.5°	1191.7	1179.2	1177.9	1172.9	1159.2	1154.2
15°	1231.6	1212.9	1201.6	1181.7	1165.4	1159.2
17.5°	1287.7	1251.5	1205.4	1164.2	1135.5	1113.0
20°	1322.7	1257.8	1165.4	1116.8	1073.1	1083.1
22.5°	1345.1	1251.5	1129.3	1066.9	1023.2	1035.7
25°	1352.6	1220.4	1104.3	1026.9	984.5	975.8
27.5°	1331.4	1184.2	1055.6	968.3	930.9	938.3
30°	1321.4	1131.8	1010.7	924.6	874.7	882.2
32.5°	1295.2	1078.1	950.8	863.5	827.3	814.8
35°	1257.8	1033.2	893.4	811.1	767.4	757.4
37.5°	1211.6	977.0	843.5	743.7	705.0	697.5
40°	1143.0	909.6	771.1	685.0	640.1	638.9
42.5°	1083.1	844.8	703.8	615.2	570.2	572.7
45°	1007.0	757.4	626.4	550.3	505.4	507.9
47.5°	909.6	676.3	552.8	467.9	430.5	428.0
50°	794.9	584.0	462.9	390.6	359.4	353.1
52.5°	685.0	490.4	379.3	314.4	288.2	285.7
55°	546.5	381.8	295.7	247.1	227.1	228.3
56°	496.6	351.9	269.5	225.9	210.9	210.9
57°	449.2	312.0	244.6	208.4	194.7	194.7
58°	396.8	274.5	222.1	188.4	182.2	177.2
59°	360.6	249.6	200.9	178.4	168.5	167.2
60°	318.2	224.6	187.2	167.2	159.7	158.5
61°	282.0	202.1	172.2	156.0	153.5	153.5
62°	252.1	187.2	159.7	151.0	149.7	146.0
63°	225.9	172.2	153.5	143.5	139.8	143.5
64°	202.1	158.5	148.5	141.0	136.0	138.5
65°	183.4	152.2	142.2	137.3	132.3	133.5
66°	170.9	142.2	137.3	131.0	128.5	129.8
67°	154.7	137.3	132.3	126.0	124.8	126.0
67.5°	149.7	133.5	129.8	123.5	122.3	123.5
68°	146.0	131.0	128.5	122.3	121.0	119.8
69°	136.0	126.0	122.3	119.8	117.3	116.0
70°	127.3	121.0	118.5	114.8	112.3	111.1
71°	122.3	114.8	113.6	109.8	107.3	106.1
72°	116.0	111.1	108.6	103.6	102.3	103.6
72.5°	114.8	108.6	107.3	102.3	101.1	101.1
73°	111.1	103.6	104.8	99.8	97.3	99.8
74°	103.6	101.1	98.6	94.8	93.6	93.6
75°	97.3	94.8	92.3	89.8	89.8	89.8



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	82.4	81.1	82.4	77.4	76.1	74.9
80°	66.1	66.1	67.4	63.6	61.1	59.9
82.5°	49.9	51.2	53.7	49.9	47.4	44.9
85°	32.4	33.7	33.7	29.9	34.9	32.4
87.5°	16.2	17.5	16.2	15.0	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)