

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: P676171

Luminaire Tested: **CCW-SA-2C-827-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676171
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-827-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T1 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

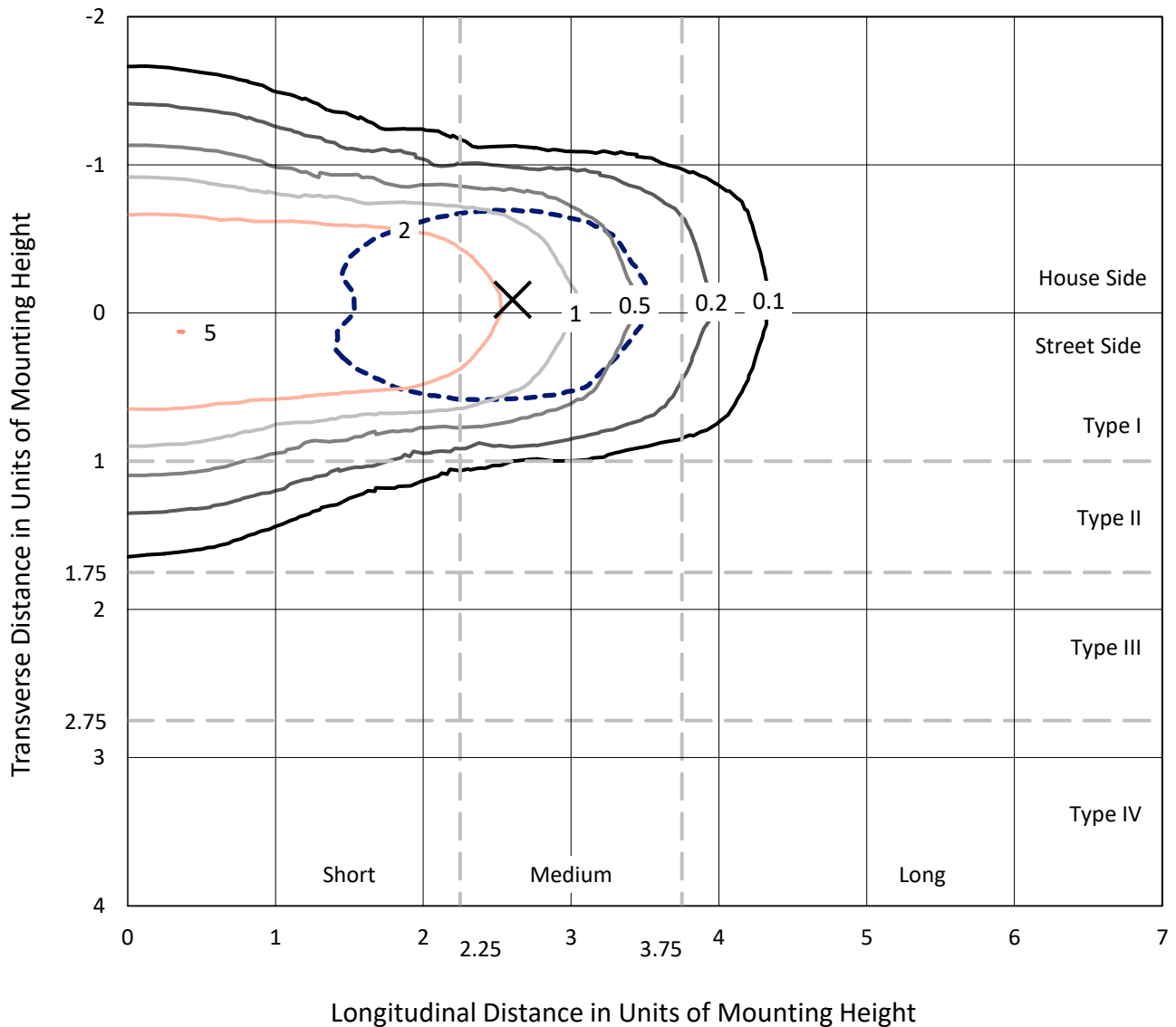
Lumens per Lamp: N/A
Luminaire Lumens: 6472.1 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 62.1
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

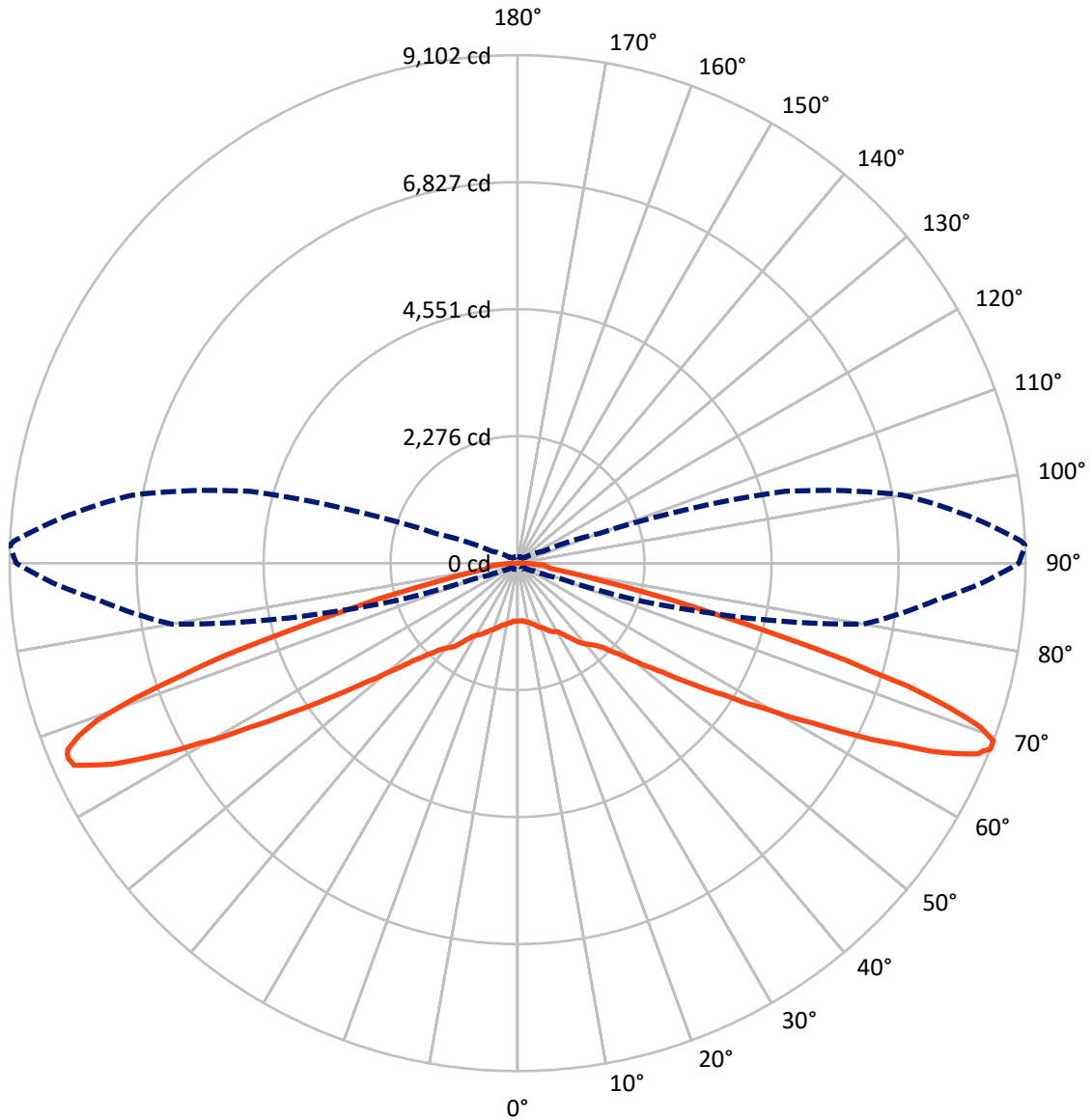
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5 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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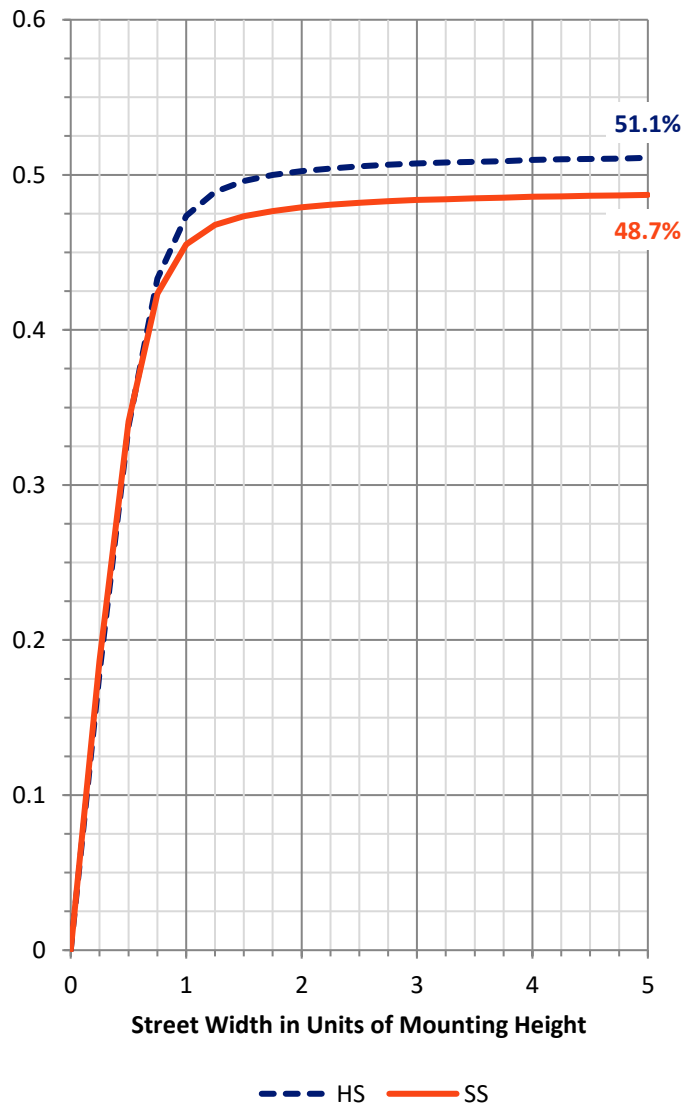
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3333.1	0.0	3333.1
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	3139.1	0.0	3139.1
	% Fixture	48.5	0.0	48.5
Total	Lumens	6472.1	0.0	6472.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	1.6
10°-20°	335.7	5.2
20°-30°	573.0	8.9
30°-40°	800.0	12.4
40°-50°	1017.7	15.7
50°-60°	1286.7	19.9
60°-70°	1586.9	24.5
70°-80°	693.2	10.7
80°-90°	75.2	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°	6472.1	100.0
0°-180°	6472.1	100.0



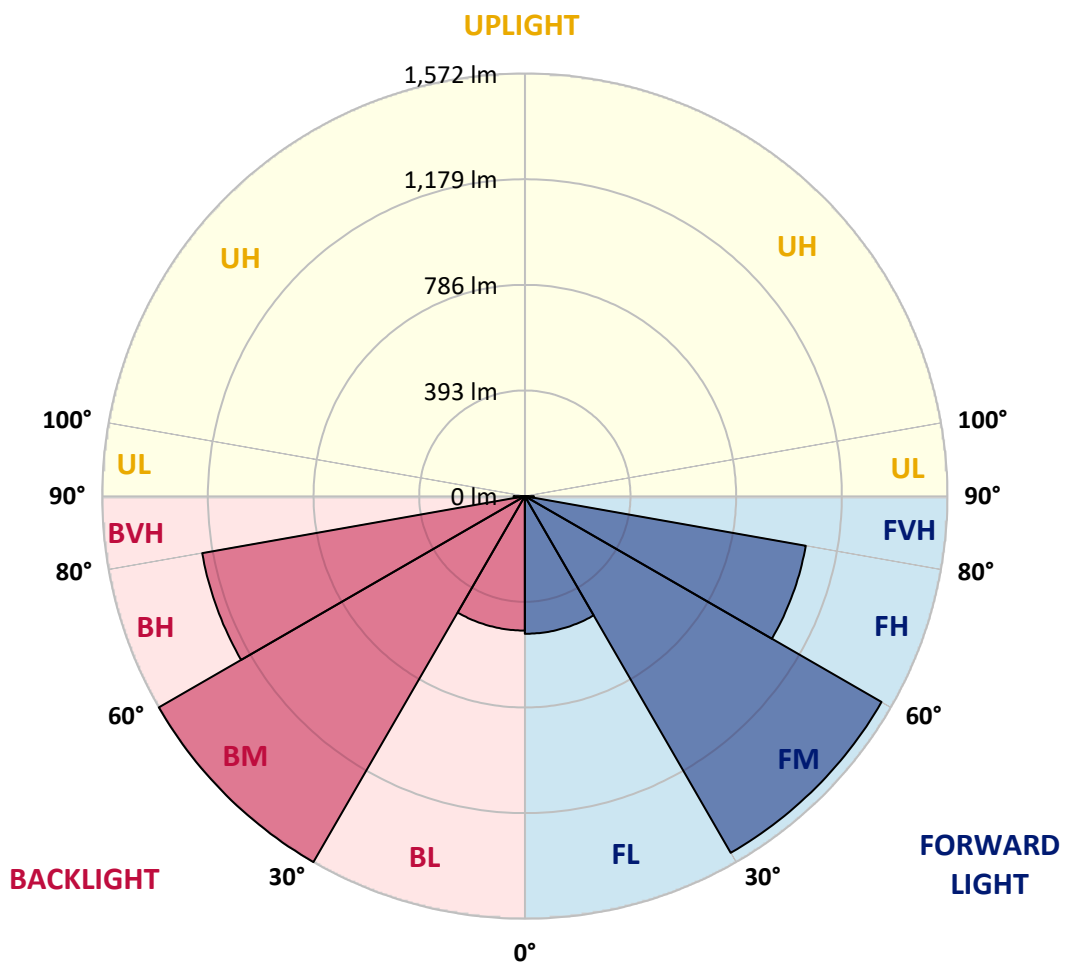
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.2	7.9			
FM (30°-60°)	1532.2	23.7			
FH (60°-80°)	1061.3	16.4			G1/1800
FVH (80°-90°)	33.3	0.5			G1/100
BL (0°-30°)	500.2	7.7	B2/1000		
BM (30°-60°)	1572.2	24.3	B2/2500		
BH (60°-80°)	1218.8	18.8	B3/2500		G3/2500
BVH (80°-90°)	41.8	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°	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9
2.5°	1056.8	1055.6	1059.2	1061.7	1050.7	1054.4	1052.0	1049.5	1041.0	1037.4	1030.1
5°	1086.0	1089.6	1101.8	1090.8	1095.7	1089.6	1070.2	1076.2	1065.3	1062.9	1055.6
7.5°	1137.0	1129.7	1146.7	1134.6	1138.2	1126.1	1117.6	1106.6	1104.2	1087.2	1088.4
10°	1147.9	1162.5	1169.8	1167.4	1169.8	1175.9	1160.1	1143.1	1120.0	1115.1	1098.1
12.5°	1140.6	1154.0	1173.4	1189.2	1200.2	1202.6	1196.5	1192.9	1183.1	1155.2	1154.0
15°	1133.3	1123.6	1135.8	1190.4	1226.9	1251.2	1259.7	1239.0	1241.5	1205.0	1190.4
17.5°	1084.8	1070.2	1117.6	1171.0	1215.9	1269.4	1310.7	1304.6	1304.6	1275.5	1254.8
20°	1020.4	1044.7	1069.0	1137.0	1219.6	1299.8	1378.7	1375.1	1360.5	1352.0	1307.0
22.5°	965.7	976.6	1021.6	1093.3	1196.5	1308.3	1401.8	1468.6	1434.6	1400.6	1373.9
25°	928.1	918.3	975.4	1049.5	1174.6	1293.7	1445.5	1514.8	1533.0	1507.5	1456.5
27.5°	874.6	874.6	919.5	990.0	1104.2	1286.4	1488.0	1593.7	1620.4	1582.8	1508.7
30°	813.9	821.2	860.0	940.2	1052.0	1232.9	1505.0	1684.8	1706.7	1673.9	1597.4
32.5°	766.5	766.5	810.2	895.3	1015.5	1208.7	1494.1	1774.7	1816.0	1791.7	1712.8
35°	715.5	711.8	743.4	836.9	957.2	1161.3	1490.5	1846.4	1938.7	1939.9	1857.3
37.5°	642.6	657.2	697.3	771.4	911.0	1115.1	1479.5	1932.6	2097.8	2125.8	2068.7
40°	594.0	600.1	636.5	717.9	839.4	1060.5	1463.7	2003.1	2203.5	2299.5	2220.5
42.5°	523.5	532.1	560.0	660.8	770.1	982.7	1394.5	2052.9	2354.1	2463.5	2396.7
45°	449.4	454.3	495.6	578.2	696.0	890.4	1320.4	2133.1	2499.9	2723.4	2684.6
47.5°	360.8	363.2	398.4	484.7	607.4	798.1	1206.2	2129.4	2617.7	2983.4	3092.7
50°	281.8	287.9	314.6	385.1	500.5	685.1	1073.8	2100.3	2765.9	3279.8	3494.8
52.5°	224.7	225.9	242.9	298.8	386.3	572.1	931.7	2007.9	2905.6	3570.1	3988.0
55°	185.9	185.9	195.6	229.6	296.4	434.9	765.3	1854.9	2922.6	3890.8	4526.1
56°	178.6	176.1	184.6	213.8	267.2	392.4	687.5	1751.6	2946.9	4039.0	4795.8
57°	168.8	170.1	174.9	195.6	240.5	347.4	601.3	1650.8	2929.9	4160.4	4995.0
58°	164.0	161.6	171.3	184.6	212.6	308.5	541.8	1531.8	2903.2	4260.1	5285.3
59°	156.7	155.5	161.6	173.7	198.0	274.5	468.9	1403.0	2851.0	4388.8	5501.5
60°	154.3	153.1	155.5	165.2	182.2	240.5	413.0	1252.4	2711.3	4521.2	5770.0
61°	147.0	148.2	153.1	159.1	172.5	216.2	371.7	1098.1	2620.2	4633.0	6066.4
62°	148.2	145.8	148.2	153.1	162.8	199.2	325.5	946.3	2457.4	4759.3	6288.7
63°	140.9	139.7	143.3	149.4	154.3	179.8	284.2	817.5	2272.8	4788.5	6476.9
64°	138.5	137.3	138.5	147.0	148.2	168.8	251.4	698.5	2005.5	4838.3	6718.7
65°	132.4	132.4	134.8	138.5	143.3	159.1	224.7	606.1	1739.5	4707.1	6792.8
66°	127.5	128.8	128.8	134.8	138.5	148.2	206.5	515.0	1484.4	4498.1	6864.4
67°	123.9	123.9	125.1	130.0	133.6	139.7	185.9	445.8	1252.4	4249.1	6753.9
67.5°	121.5	122.7	122.7	127.5	131.2	139.7	177.4	422.7	1120.0	3975.8	6671.3
68°	117.8	119.0	119.0	123.9	127.5	134.8	171.3	386.3	1032.5	3798.5	6518.2
69°	115.4	114.2	114.2	119.0	123.9	128.8	159.1	337.7	821.2	3302.8	6294.7
70°	108.1	108.1	110.5	114.2	117.8	122.7	147.0	297.6	694.8	2734.4	5718.9
71°	104.5	103.3	104.5	108.1	111.8	117.8	134.8	263.6	568.5	2270.3	5152.9
72°	97.2	99.6	99.6	103.3	106.9	110.5	126.3	229.6	477.4	1814.8	4529.7
72.5°	96.0	96.0	97.2	100.8	103.3	109.3	121.5	219.9	436.1	1599.8	4268.6
73°	92.3	92.3	93.5	97.2	99.6	105.7	117.8	198.0	397.2	1423.7	3780.2
74°	88.7	87.5	87.5	92.3	93.5	99.6	110.5	174.9	332.8	1072.6	3034.4
75°	82.6	82.6	83.8	86.2	87.5	92.3	102.0	155.5	280.6	832.1	2373.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	68.0	69.2	70.5	72.9	72.9	76.5	83.8	108.1	171.3	421.5	1089.6
80°	49.8	52.2	55.9	59.5	58.3	58.3	65.6	77.7	102.0	189.5	417.9
82.5°	40.1	42.5	38.9	43.7	43.7	41.3	47.4	57.1	69.2	93.5	149.4
85°	26.7	27.9	23.1	26.7	25.5	25.5	31.6	34.0	42.5	52.2	74.1
87.5°	12.1	12.1	9.7	10.9	10.9	10.9	15.8	12.1	18.2	25.5	43.7
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):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9
2.5°	1037.4	1042.2	1042.2	1037.4	1033.7	1037.4	1034.9	1028.9	1034.9	1037.4	1038.6
5°	1052.0	1042.2	1047.1	1036.2	1043.5	1042.2	1039.8	1045.9	1047.1	1047.1	1055.6
7.5°	1067.7	1079.9	1064.1	1065.3	1069.0	1054.4	1059.2	1061.7	1056.8	1066.5	1073.8
10°	1095.7	1100.5	1095.7	1077.5	1089.6	1079.9	1076.2	1087.2	1084.8	1087.2	1098.1
12.5°	1121.2	1129.7	1116.3	1115.1	1109.0	1100.5	1105.4	1104.2	1121.2	1123.6	1137.0
15°	1173.4	1151.6	1146.7	1145.5	1143.1	1139.4	1141.8	1143.1	1164.9	1168.6	1200.2
17.5°	1218.4	1214.7	1188.0	1197.7	1197.7	1183.1	1177.1	1197.7	1214.7	1232.9	1254.8
20°	1264.5	1260.9	1231.7	1232.9	1222.0	1235.4	1228.1	1247.5	1276.7	1282.8	1302.2
22.5°	1319.2	1303.4	1282.8	1285.2	1288.8	1279.1	1274.3	1301.0	1330.1	1347.1	1348.3
25°	1405.4	1365.4	1348.3	1350.8	1345.9	1338.6	1342.3	1376.3	1390.9	1427.3	1420.0
27.5°	1451.6	1428.5	1416.4	1388.4	1389.6	1378.7	1393.3	1444.3	1473.5	1501.4	1445.5
30°	1507.5	1492.9	1439.5	1429.7	1428.5	1423.7	1450.4	1516.0	1559.7	1575.5	1495.3
32.5°	1616.8	1558.5	1545.1	1536.6	1517.2	1523.3	1536.6	1622.9	1692.1	1688.5	1541.5
35°	1741.9	1701.8	1664.2	1656.9	1654.5	1637.5	1660.5	1761.4	1814.8	1799.0	1558.5
37.5°	1942.4	1881.6	1830.6	1802.7	1797.8	1785.7	1840.3	1920.5	1989.7	1927.8	1571.9
40°	2040.7	1972.7	1925.3	1908.3	1912.0	1929.0	1982.4	2105.1	2135.5	2021.3	1582.8
42.5°	2181.7	2107.6	2014.0	2005.5	1994.6	2003.1	2106.3	2271.5	2297.1	2147.6	1541.5
45°	2431.9	2320.1	2212.0	2163.4	2165.9	2188.9	2349.3	2530.3	2482.9	2235.1	1475.9
47.5°	2747.7	2583.7	2496.3	2430.7	2462.3	2436.7	2691.8	2836.4	2674.8	2345.6	1395.7
50°	3222.7	2993.1	2874.0	2795.1	2808.5	2830.3	3089.1	3211.7	2887.4	2399.1	1273.0
52.5°	3821.5	3526.4	3351.4	3245.8	3255.5	3302.8	3636.9	3599.2	3130.4	2444.0	1109.0
55°	4538.2	4234.5	3895.6	3851.9	3841.0	3953.9	4322.0	4005.0	3349.0	2372.4	939.0
56°	4917.2	4594.1	4241.8	4151.9	4125.2	4204.2	4636.6	4207.8	3424.3	2292.2	857.6
57°	5239.1	4930.6	4544.3	4391.2	4425.3	4573.5	4948.8	4398.5	3493.6	2209.6	781.1
58°	5681.3	5329.0	4920.9	4804.3	4773.9	4891.7	5285.3	4590.5	3516.6	2124.6	710.6
59°	6122.2	5699.5	5331.4	5118.9	5127.4	5342.4	5616.9	4818.8	3551.9	2016.5	620.7
60°	6457.5	6244.9	5753.0	5593.8	5572.0	5882.9	5947.3	4971.9	3589.5	1870.7	557.6
61°	6932.5	6655.5	6197.5	5992.3	6051.8	6300.8	6304.4	5163.8	3533.6	1686.0	479.8
62°	7273.8	7200.9	6719.9	6524.3	6506.1	6836.5	6676.2	5332.7	3485.1	1511.1	423.9
63°	7673.4	7673.4	7234.9	7081.9	7090.4	7351.5	6837.7	5501.5	3429.2	1318.0	372.9
64°	7881.2	8142.3	7737.8	7522.8	7578.7	7804.6	7125.6	5612.0	3256.7	1122.4	328.0
65°	8060.9	8453.3	8228.6	8129.0	8043.9	8177.6	7374.6	5715.3	2993.1	954.8	291.5
66°	8212.8	8746.0	8672.0	8565.1	8556.6	8526.2	7423.2	5711.7	2721.0	806.6	255.1
67°	8136.3	8752.1	8887.0	8931.9	8918.5	8597.9	7338.2	5581.7	2372.4	681.5	227.2
67.5°	8067.0	8702.3	9015.7	8990.2	9046.1	8658.6	7352.8	5422.6	2124.6	617.1	213.8
68°	8006.3	8635.5	9068.0	9100.7	9072.8	8665.9	7272.6	5296.2	1955.7	579.4	201.6
69°	7545.9	8318.5	8984.1	9102.0	9030.3	8387.7	7017.5	4967.0	1553.6	494.4	185.9
70°	7084.3	7907.9	8577.2	8793.4	8704.7	7849.6	6695.6	4443.5	1281.5	422.7	167.6
71°	6445.4	7145.0	8035.4	8165.4	8058.5	7237.4	6029.9	3890.8	997.3	358.3	149.4
72°	5578.0	6172.0	7022.3	7337.0	7179.0	6356.7	5357.0	3215.4	807.8	301.3	136.0
72.5°	5148.0	5756.6	6576.5	6602.1	6632.4	5974.0	5071.5	2824.2	704.5	279.4	132.4
73°	4739.9	5336.3	6045.7	6135.6	6006.8	5329.0	4645.1	2525.4	643.8	255.1	127.5
74°	3841.0	4181.1	4769.0	4856.5	4743.5	4345.1	3796.0	1936.3	512.6	219.9	116.6
75°	3022.2	3209.3	3741.4	3687.9	3519.1	3379.4	2943.3	1479.5	415.4	193.1	108.1



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1358.1	1471.0	1559.7	1559.7	1569.4	1497.8	1356.9	679.0	256.3	139.7	88.7
80°	517.5	579.4	598.9	600.1	608.6	630.4	586.7	334.1	151.8	99.6	71.7
82.5°	375.4	524.8	564.8	535.7	538.1	485.9	224.7	148.2	96.0	69.2	52.2
85°	340.1	456.7	483.5	479.8	481.0	449.4	132.4	72.9	55.9	43.7	36.4
87.5°	165.2	161.6	171.3	193.1	188.3	244.2	111.8	36.4	24.3	18.2	18.2
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):

	135°	145°	155°	165°	175°	180°
0°	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9
2.5°	1028.9	1027.7	1044.7	1027.7	1037.4	1030.1
5°	1041.0	1045.9	1049.5	1056.8	1039.8	1056.8
7.5°	1077.5	1082.3	1083.5	1089.6	1082.3	1081.1
10°	1105.4	1117.6	1124.8	1100.5	1115.1	1113.9
12.5°	1160.1	1147.9	1146.7	1141.8	1128.5	1123.6
15°	1198.9	1180.7	1169.8	1150.3	1134.6	1128.5
17.5°	1253.6	1218.4	1173.4	1133.3	1105.4	1083.5
20°	1287.6	1224.4	1134.6	1087.2	1044.7	1054.4
22.5°	1309.5	1218.4	1099.3	1038.6	996.1	1008.2
25°	1316.8	1188.0	1075.0	999.7	958.4	949.9
27.5°	1296.1	1152.8	1027.7	942.6	906.2	913.5
30°	1286.4	1101.8	983.9	900.1	851.5	858.8
32.5°	1260.9	1049.5	925.6	840.6	805.4	793.2
35°	1224.4	1005.8	869.7	789.6	747.1	737.3
37.5°	1179.5	951.1	821.2	724.0	686.3	679.0
40°	1112.7	885.5	750.7	666.9	623.2	621.9
42.5°	1054.4	822.4	685.1	598.9	555.1	557.6
45°	980.3	737.3	609.8	535.7	492.0	494.4
47.5°	885.5	658.4	538.1	455.5	419.1	416.7
50°	773.8	568.5	450.7	380.2	349.8	343.8
52.5°	666.9	477.4	369.3	306.1	280.6	278.2
55°	532.1	371.7	287.9	240.5	221.1	222.3
56°	483.5	342.6	262.4	219.9	205.3	205.3
57°	437.3	303.7	238.1	202.9	189.5	189.5
58°	386.3	267.2	216.2	183.4	177.4	172.5
59°	351.1	242.9	195.6	173.7	164.0	162.8
60°	309.8	218.7	182.2	162.8	155.5	154.3
61°	274.5	196.8	167.6	151.8	149.4	149.4
62°	245.4	182.2	155.5	147.0	145.8	142.1
63°	219.9	167.6	149.4	139.7	136.0	139.7
64°	196.8	154.3	144.6	137.3	132.4	134.8
65°	178.6	148.2	138.5	133.6	128.8	130.0
66°	166.4	138.5	133.6	127.5	125.1	126.3
67°	150.6	133.6	128.8	122.7	121.5	122.7
67.5°	145.8	130.0	126.3	120.3	119.0	120.3
68°	142.1	127.5	125.1	119.0	117.8	116.6
69°	132.4	122.7	119.0	116.6	114.2	113.0
70°	123.9	117.8	115.4	111.8	109.3	108.1
71°	119.0	111.8	110.5	106.9	104.5	103.3
72°	113.0	108.1	105.7	100.8	99.6	100.8
72.5°	111.8	105.7	104.5	99.6	98.4	98.4
73°	108.1	100.8	102.0	97.2	94.7	97.2
74°	100.8	98.4	96.0	92.3	91.1	91.1
75°	94.7	92.3	89.9	87.5	87.5	87.5



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	135°	145°	155°	165°	175°	180°
77.5°	80.2	79.0	80.2	75.3	74.1	72.9
80°	64.4	64.4	65.6	62.0	59.5	58.3
82.5°	48.6	49.8	52.2	48.6	46.2	43.7
85°	31.6	32.8	32.8	29.2	34.0	31.6
87.5°	15.8	17.0	15.8	14.6	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)