

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: P676204

Luminaire Tested: **CCW-SA-2C-840-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676204
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-840-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T1 distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

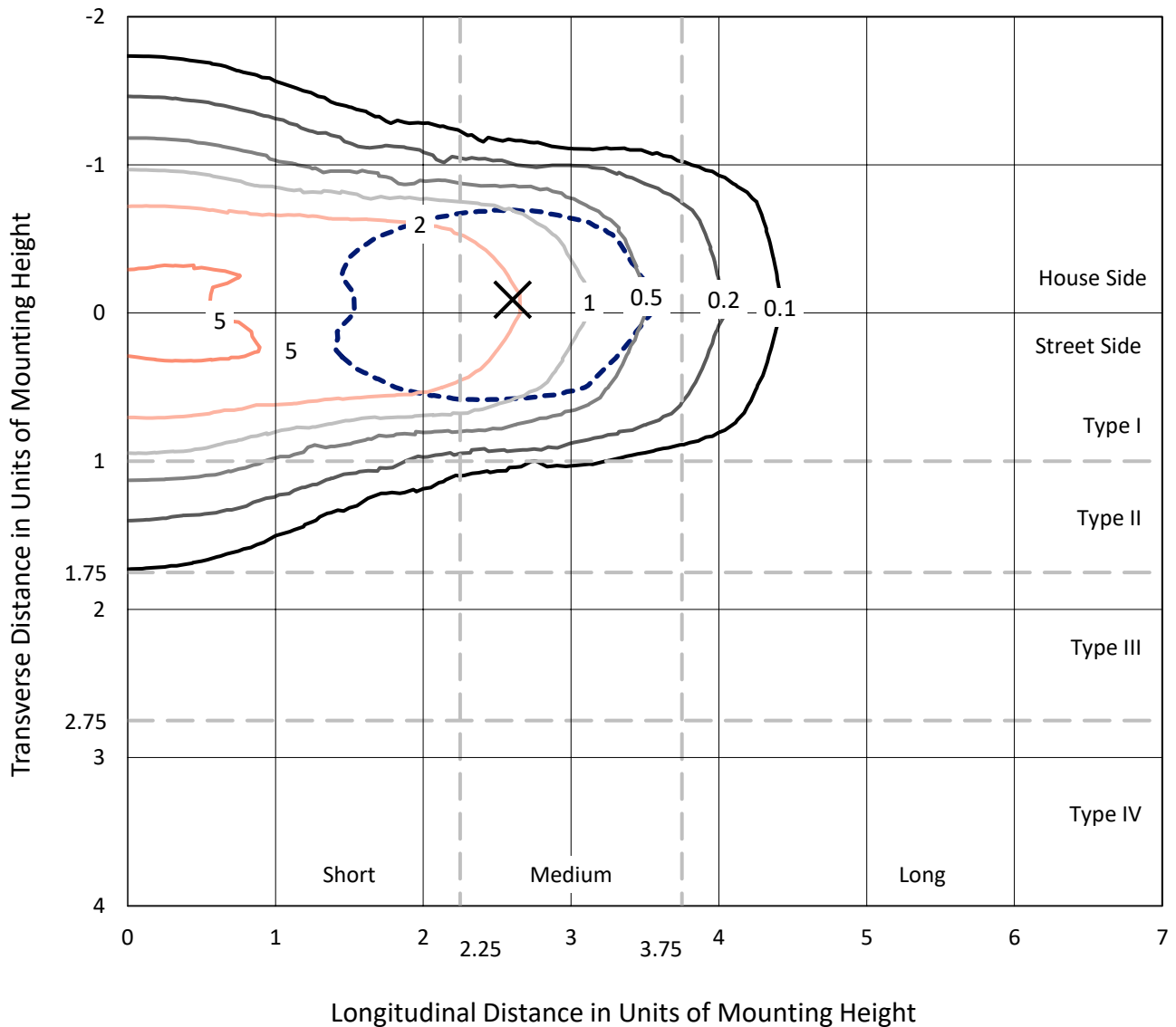
Lumens per Lamp: N/A
Luminaire Lumens: 7506.7 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

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

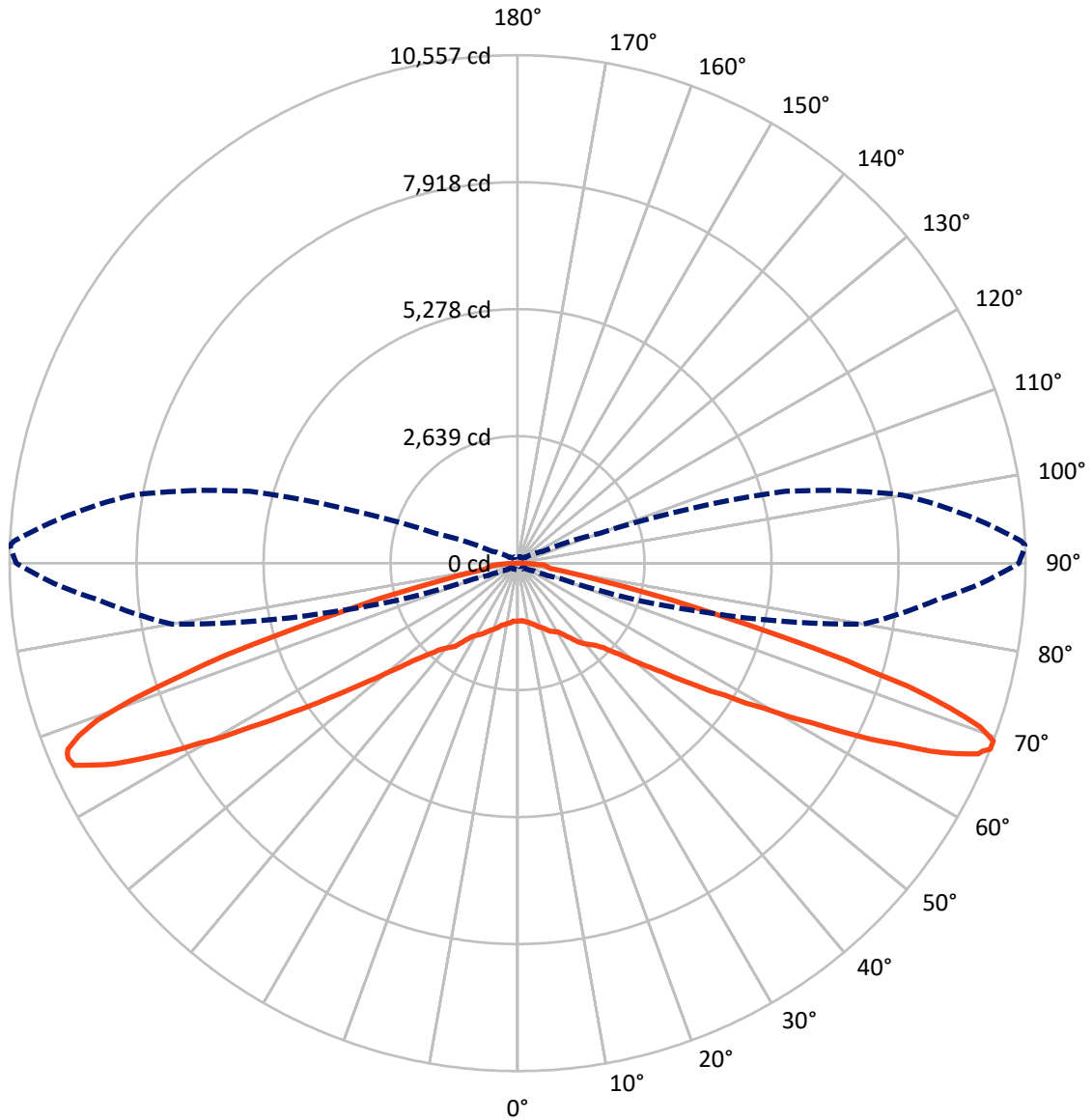
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.8 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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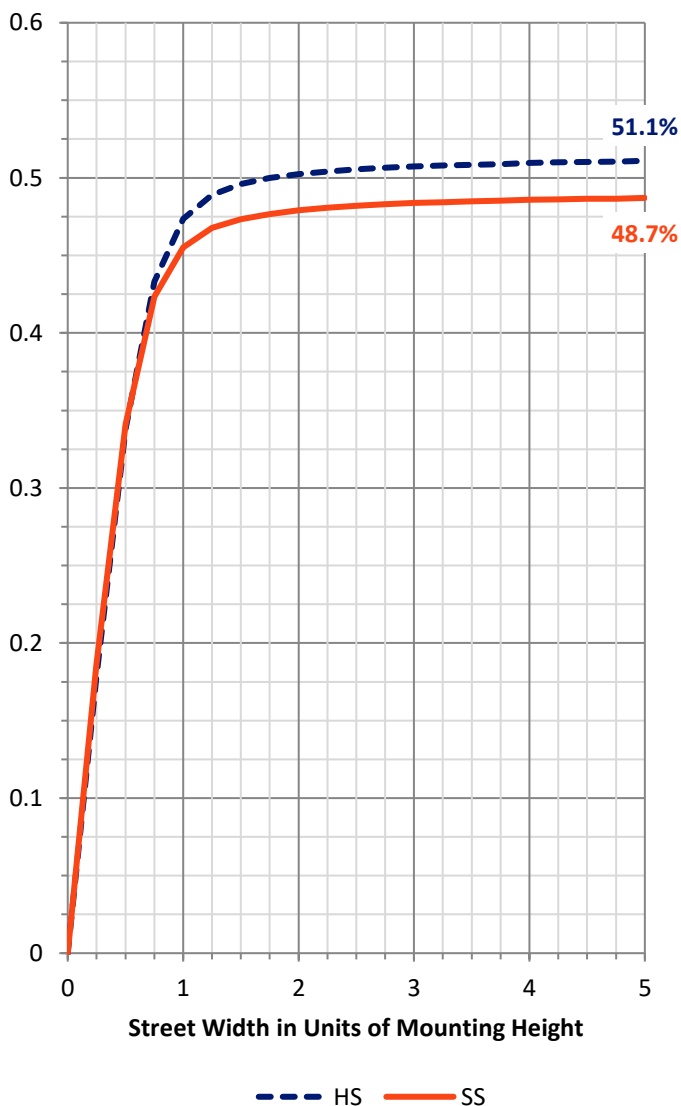
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3865.8	0.0	3865.8
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	3640.8	0.0	3640.8
	% Fixture	48.5	0.0	48.5
Total	Lumens	7506.7	0.0	7506.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	1.6
10°-20°	389.4	5.2
20°-30°	664.6	8.9
30°-40°	927.9	12.4
40°-50°	1180.3	15.7
50°-60°	1492.4	19.9
60°-70°	1840.6	24.5
70°-80°	804.0	10.7
80°-90°	87.2	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°	7506.7	100.0
0°-180°	7506.7	100.0



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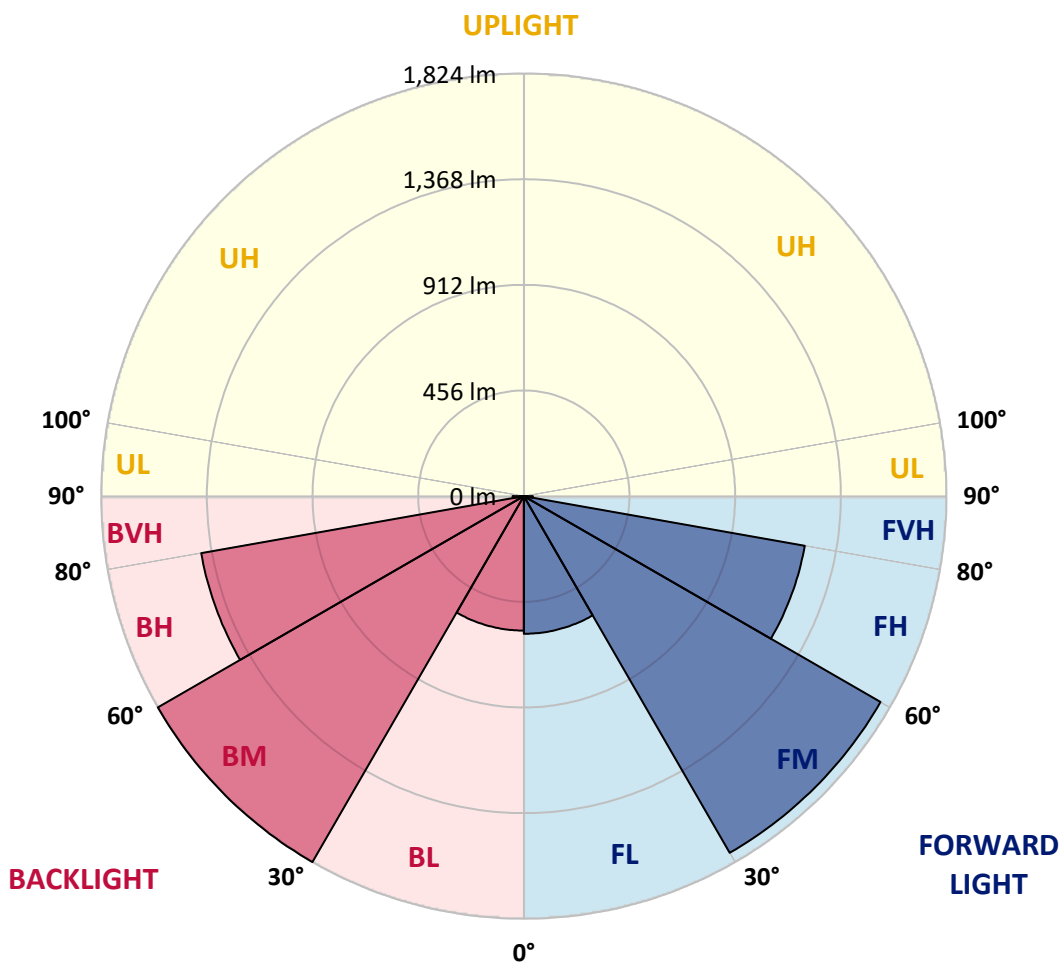
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.1	7.9			
FM (30°-60°)	1777.1	23.7			
FH (60°-80°)	1230.9	16.4			G1/1800
FVH (80°-90°)	38.7	0.5			G1/100
BL (0°-30°)	580.1	7.7	B2/1000		
BM (30°-60°)	1823.5	24.3	B2/2500		
BH (60°-80°)	1413.6	18.8	B3/2500		G3/2500
BVH (80°-90°)	48.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4
2.5°	1225.7	1224.3	1228.6	1231.4	1218.7	1222.9	1220.1	1217.3	1207.4	1203.2	1194.7
5°	1259.6	1263.8	1277.9	1265.2	1270.8	1263.8	1241.2	1248.3	1235.6	1232.8	1224.3
7.5°	1318.7	1310.3	1330.0	1315.9	1320.1	1306.0	1296.2	1283.5	1280.7	1261.0	1262.4
10°	1331.4	1348.3	1356.8	1353.9	1356.8	1363.8	1345.5	1325.8	1299.0	1293.4	1273.6
12.5°	1323.0	1338.4	1361.0	1379.3	1392.0	1394.8	1387.8	1383.5	1372.3	1339.9	1338.4
15°	1314.5	1303.2	1317.3	1380.7	1423.0	1451.2	1461.0	1437.1	1439.9	1397.6	1380.7
17.5°	1258.1	1241.2	1296.2	1358.2	1410.3	1472.3	1520.2	1513.2	1513.2	1479.3	1455.4
20°	1183.5	1211.6	1239.8	1318.7	1414.5	1507.5	1599.1	1594.9	1578.0	1568.1	1516.0
22.5°	1120.1	1132.8	1184.9	1268.0	1387.8	1517.4	1625.9	1703.4	1663.9	1624.5	1593.5
25°	1076.4	1065.1	1131.3	1217.3	1362.4	1500.5	1676.6	1756.9	1778.0	1748.4	1689.3
27.5°	1014.4	1014.4	1066.5	1148.2	1280.7	1492.0	1725.9	1848.5	1879.5	1835.8	1749.8
30°	944.0	952.4	997.5	1090.5	1220.1	1430.0	1745.6	1954.1	1979.5	1941.5	1852.7
32.5°	889.0	889.0	939.7	1038.4	1177.8	1401.8	1732.9	2058.4	2106.3	2078.1	1986.5
35°	829.8	825.6	862.2	970.7	1110.2	1346.9	1728.7	2141.5	2248.6	2250.0	2154.2
37.5°	745.3	762.2	808.7	894.6	1056.7	1293.4	1716.0	2241.6	2433.2	2465.6	2399.3
40°	688.9	696.0	738.3	832.7	973.5	1230.0	1697.7	2323.3	2555.7	2667.0	2575.5
42.5°	607.2	617.1	649.5	766.4	893.2	1139.8	1617.4	2381.0	2730.4	2857.2	2779.7
45°	521.3	526.9	574.8	670.6	807.3	1032.7	1531.5	2474.0	2899.5	3158.7	3113.7
47.5°	418.4	421.3	462.1	562.1	704.4	925.6	1399.0	2469.8	3036.2	3460.2	3587.0
50°	326.9	333.9	364.9	446.6	580.5	794.6	1245.5	2436.0	3208.1	3804.0	4053.4
52.5°	260.6	262.1	281.8	346.6	448.0	663.6	1080.6	2328.9	3370.1	4140.7	4625.4
55°	215.6	215.6	226.8	266.3	343.8	504.4	887.6	2151.4	3389.8	4512.7	5249.5
56°	207.1	204.3	214.2	248.0	310.0	455.1	797.4	2031.6	3418.0	4684.6	5562.3
57°	195.8	197.2	202.9	226.8	279.0	402.9	697.4	1914.7	3398.3	4825.5	5793.4
58°	190.2	187.4	198.7	214.2	246.6	357.9	628.4	1776.6	3367.3	4941.0	6130.1
59°	181.7	180.3	187.4	201.5	229.6	318.4	543.8	1627.3	3306.7	5090.3	6380.9
60°	178.9	177.5	180.3	191.6	211.3	279.0	479.0	1452.6	3144.7	5243.9	6692.2
61°	170.5	171.9	177.5	184.6	200.1	250.8	431.1	1273.6	3039.0	5373.5	7036.0
62°	171.9	169.1	171.9	177.5	188.8	231.1	377.6	1097.5	2850.2	5520.0	7293.8
63°	163.4	162.0	166.2	173.3	178.9	208.5	329.7	948.2	2636.0	5553.9	7512.2
64°	160.6	159.2	160.6	170.5	171.9	195.8	291.6	810.1	2326.1	5611.6	7792.6
65°	153.6	153.6	156.4	160.6	166.2	184.6	260.6	703.0	2017.5	5459.5	7878.5
66°	147.9	149.3	149.3	156.4	160.6	171.9	239.5	597.4	1721.7	5217.1	7961.7
67°	143.7	143.7	145.1	150.8	155.0	162.0	215.6	517.1	1452.6	4928.3	7833.5
67.5°	140.9	142.3	142.3	147.9	152.2	162.0	205.7	490.3	1299.0	4611.3	7737.6
68°	136.7	138.1	138.1	143.7	147.9	156.4	198.7	448.0	1197.6	4405.6	7560.1
69°	133.8	132.4	132.4	138.1	143.7	149.3	184.6	391.7	952.4	3830.8	7300.9
70°	125.4	125.4	128.2	132.4	136.7	142.3	170.5	345.2	805.9	3171.4	6633.1
71°	121.2	119.8	121.2	125.4	129.6	136.7	156.4	305.7	659.4	2633.2	5976.5
72°	112.7	115.5	115.5	119.8	124.0	128.2	146.5	266.3	553.7	2104.9	5253.8
72.5°	111.3	111.3	112.7	116.9	119.8	126.8	140.9	255.0	505.8	1855.5	4950.9
73°	107.1	107.1	108.5	112.7	115.5	122.6	136.7	229.6	460.7	1651.2	4384.5
74°	102.8	101.4	101.4	107.1	108.5	115.5	128.2	202.9	386.0	1244.1	3519.4
75°	95.8	95.8	97.2	100.0	101.4	107.1	118.3	180.3	325.5	965.1	2753.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	78.9	80.3	81.7	84.5	84.5	88.8	97.2	125.4	198.7	488.9	1263.8
80°	57.8	60.6	64.8	69.0	67.6	67.6	76.1	90.2	118.3	219.8	484.7
82.5°	46.5	49.3	45.1	50.7	50.7	47.9	54.9	66.2	80.3	108.5	173.3
85°	31.0	32.4	26.8	31.0	29.6	29.6	36.6	39.4	49.3	60.6	85.9
87.5°	14.1	14.1	11.3	12.7	12.7	12.7	18.3	14.1	21.1	29.6	50.7
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°	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4
2.5°	1203.2	1208.8	1208.8	1203.2	1199.0	1203.2	1200.4	1193.3	1200.4	1203.2	1204.6
5°	1220.1	1208.8	1214.5	1201.8	1210.2	1208.8	1206.0	1213.1	1214.5	1214.5	1224.3
7.5°	1238.4	1252.5	1234.2	1235.6	1239.8	1222.9	1228.6	1231.4	1225.7	1237.0	1245.5
10°	1270.8	1276.5	1270.8	1249.7	1263.8	1252.5	1248.3	1261.0	1258.1	1261.0	1273.6
12.5°	1300.4	1310.3	1294.8	1293.4	1286.3	1276.5	1282.1	1280.7	1300.4	1303.2	1318.7
15°	1361.0	1335.6	1330.0	1328.6	1325.8	1321.5	1324.4	1325.8	1351.1	1355.4	1392.0
17.5°	1413.1	1408.9	1377.9	1389.2	1389.2	1372.3	1365.2	1389.2	1408.9	1430.0	1455.4
20°	1466.7	1462.4	1428.6	1430.0	1417.3	1432.8	1424.4	1446.9	1480.7	1487.8	1510.3
22.5°	1530.1	1511.7	1487.8	1490.6	1494.8	1483.6	1477.9	1508.9	1542.7	1562.5	1563.9
25°	1630.1	1583.6	1563.9	1566.7	1561.1	1552.6	1556.8	1596.3	1613.2	1655.5	1647.0
27.5°	1683.6	1656.9	1642.8	1610.4	1611.8	1599.1	1616.0	1675.2	1709.0	1741.4	1676.6
30°	1748.4	1731.5	1669.5	1658.3	1656.9	1651.2	1682.2	1758.3	1809.0	1827.3	1734.3
32.5°	1875.2	1807.6	1792.1	1782.3	1759.7	1766.8	1782.3	1882.3	1962.6	1958.4	1787.9
35°	2020.4	1973.9	1930.2	1921.7	1918.9	1899.2	1926.0	2042.9	2104.9	2086.6	1807.6
37.5°	2252.8	2182.4	2123.2	2090.8	2085.2	2071.1	2134.5	2227.5	2307.8	2235.9	1823.1
40°	2366.9	2288.0	2233.1	2213.4	2217.6	2237.3	2299.3	2441.6	2476.8	2344.4	1835.8
42.5°	2530.4	2444.4	2335.9	2326.1	2313.4	2323.3	2443.0	2634.6	2664.2	2490.9	1787.9
45°	2820.6	2691.0	2565.6	2509.2	2512.1	2538.8	2724.8	2934.7	2879.8	2592.4	1711.8
47.5°	3186.9	2996.7	2895.3	2819.2	2855.8	2826.2	3122.1	3289.8	3102.4	2720.6	1618.8
50°	3737.8	3471.5	3333.4	3241.9	3257.4	3282.7	3582.8	3725.1	3348.9	2782.6	1476.5
52.5°	4432.4	4090.0	3887.1	3764.6	3775.8	3830.8	4218.2	4174.6	3630.7	2834.7	1286.3
55°	5263.6	4911.4	4518.3	4467.6	4454.9	4585.9	5012.8	4645.1	3884.3	2751.6	1089.1
56°	5703.2	5328.4	4919.9	4815.6	4784.6	4876.2	5377.7	4880.4	3971.7	2658.6	994.7
57°	6076.6	5718.7	5270.7	5093.2	5132.6	5304.5	5739.8	5101.6	4052.0	2562.8	905.9
58°	6589.4	6180.8	5707.4	5572.2	5537.0	5673.6	6130.1	5324.2	4078.7	2464.2	824.2
59°	7100.8	6610.5	6183.6	5937.1	5946.9	6196.3	6514.7	5589.1	4119.6	2338.8	719.9
60°	7489.7	7243.1	6672.5	6488.0	6462.6	6823.3	6897.9	5766.6	4163.3	2169.7	646.7
61°	8040.6	7719.3	7188.2	6950.1	7019.1	7307.9	7312.2	5989.2	4098.5	1955.5	556.5
62°	8436.5	8351.9	7794.0	7567.2	7546.0	7929.3	7743.3	6185.0	4042.1	1752.7	491.7
63°	8900.0	8900.0	8391.4	8213.9	8223.7	8526.6	7930.7	6380.9	3977.3	1528.6	432.5
64°	9140.9	9443.8	8974.7	8725.3	8790.1	9052.1	8264.6	6509.1	3777.2	1301.8	380.4
65°	9349.4	9804.5	9543.8	9428.3	9329.7	9484.7	8553.4	6628.8	3471.5	1107.4	338.1
66°	9525.5	10144.0	10058.1	9934.1	9924.2	9889.0	8609.8	6624.6	3155.9	935.5	295.9
67°	9436.8	10151.1	10307.5	10359.6	10344.1	9972.2	8511.1	6473.9	2751.6	790.4	263.5
67.5°	9356.5	10093.3	10456.8	10427.2	10492.0	10042.6	8528.0	6289.3	2464.2	715.7	248.0
68°	9286.0	10015.8	10517.4	10555.4	10523.0	10051.0	8435.0	6142.8	2268.3	672.0	233.9
69°	8752.0	9648.1	10420.2	10556.8	10473.7	9728.4	8139.2	5761.0	1802.0	573.4	215.6
70°	8216.7	9171.9	9948.2	10199.0	10096.1	9104.3	7765.8	5153.7	1486.4	490.3	194.4
71°	7475.6	8287.1	9319.8	9470.6	9346.6	8394.2	6993.7	4512.7	1156.7	415.6	173.3
72°	6469.6	7158.6	8144.8	8509.7	8326.6	7372.7	6213.2	3729.3	936.9	349.4	157.8
72.5°	5970.9	6676.7	7627.8	7657.3	7692.6	6928.9	5882.1	3275.7	817.2	324.0	153.6
73°	5497.5	6189.3	7012.1	7116.3	6967.0	6180.8	5387.6	2929.1	746.7	295.9	147.9
74°	4454.9	4849.4	5531.3	5632.8	5501.7	5039.6	4402.8	2245.8	594.6	255.0	135.3
75°	3505.3	3722.3	4339.4	4277.4	4081.6	3919.5	3413.8	1716.0	481.8	224.0	125.4



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1575.1	1706.2	1809.0	1809.0	1820.3	1737.2	1573.7	787.6	297.3	162.0	102.8
80°	600.2	672.0	694.6	696.0	705.9	731.2	680.5	387.4	176.1	115.5	83.1
82.5°	435.3	608.6	655.1	621.3	624.1	563.6	260.6	171.9	111.3	80.3	60.6
85°	394.5	529.7	560.7	556.5	557.9	521.3	153.6	84.5	64.8	50.7	42.3
87.5°	191.6	187.4	198.7	224.0	218.4	283.2	129.6	42.3	28.2	21.1	21.1
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°	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4
2.5°	1193.3	1191.9	1211.6	1191.9	1203.2	1194.7
5°	1207.4	1213.1	1217.3	1225.7	1206.0	1225.7
7.5°	1249.7	1255.3	1256.7	1263.8	1255.3	1253.9
10°	1282.1	1296.2	1304.6	1276.5	1293.4	1292.0
12.5°	1345.5	1331.4	1330.0	1324.4	1308.9	1303.2
15°	1390.6	1369.4	1356.8	1334.2	1315.9	1308.9
17.5°	1454.0	1413.1	1361.0	1314.5	1282.1	1256.7
20°	1493.4	1420.2	1315.9	1261.0	1211.6	1222.9
22.5°	1518.8	1413.1	1275.0	1204.6	1155.3	1169.4
25°	1527.2	1377.9	1246.9	1159.5	1111.6	1101.8
27.5°	1503.3	1337.0	1191.9	1093.3	1051.0	1059.5
30°	1492.0	1277.9	1141.2	1044.0	987.6	996.1
32.5°	1462.4	1217.3	1073.6	975.0	934.1	920.0
35°	1420.2	1166.6	1008.8	915.8	866.5	855.2
37.5°	1368.0	1103.2	952.4	839.7	796.0	787.6
40°	1290.5	1027.1	870.7	773.5	722.8	721.4
42.5°	1222.9	953.8	794.6	694.6	643.9	646.7
45°	1137.0	855.2	707.3	621.3	570.6	573.4
47.5°	1027.1	763.6	624.1	528.3	486.1	483.3
50°	897.5	659.4	522.7	441.0	405.8	398.7
52.5°	773.5	553.7	428.3	355.0	325.5	322.6
55°	617.1	431.1	333.9	279.0	256.4	257.8
56°	560.7	397.3	304.3	255.0	238.1	238.1
57°	507.2	352.2	276.1	235.3	219.8	219.8
58°	448.0	310.0	250.8	212.7	205.7	200.1
59°	407.2	281.8	226.8	201.5	190.2	188.8
60°	359.3	253.6	211.3	188.8	180.3	178.9
61°	318.4	228.2	194.4	176.1	173.3	173.3
62°	284.6	211.3	180.3	170.5	169.1	164.8
63°	255.0	194.4	173.3	162.0	157.8	162.0
64°	228.2	178.9	167.7	159.2	153.6	156.4
65°	207.1	171.9	160.6	155.0	149.3	150.8
66°	193.0	160.6	155.0	147.9	145.1	146.5
67°	174.7	155.0	149.3	142.3	140.9	142.3
67.5°	169.1	150.8	146.5	139.5	138.1	139.5
68°	164.8	147.9	145.1	138.1	136.7	135.3
69°	153.6	142.3	138.1	135.3	132.4	131.0
70°	143.7	136.7	133.8	129.6	126.8	125.4
71°	138.1	129.6	128.2	124.0	121.2	119.8
72°	131.0	125.4	122.6	116.9	115.5	116.9
72.5°	129.6	122.6	121.2	115.5	114.1	114.1
73°	125.4	116.9	118.3	112.7	109.9	112.7
74°	116.9	114.1	111.3	107.1	105.7	105.7
75°	109.9	107.1	104.3	101.4	101.4	101.4



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	93.0	91.6	93.0	87.4	85.9	84.5
80°	74.7	74.7	76.1	71.9	69.0	67.6
82.5°	56.4	57.8	60.6	56.4	53.5	50.7
85°	36.6	38.0	38.0	33.8	39.4	36.6
87.5°	18.3	19.7	18.3	16.9	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)