

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: P676157

Luminaire Tested: **CCW-SA-1F-760-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676157
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-760-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
T1 distribution lens
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

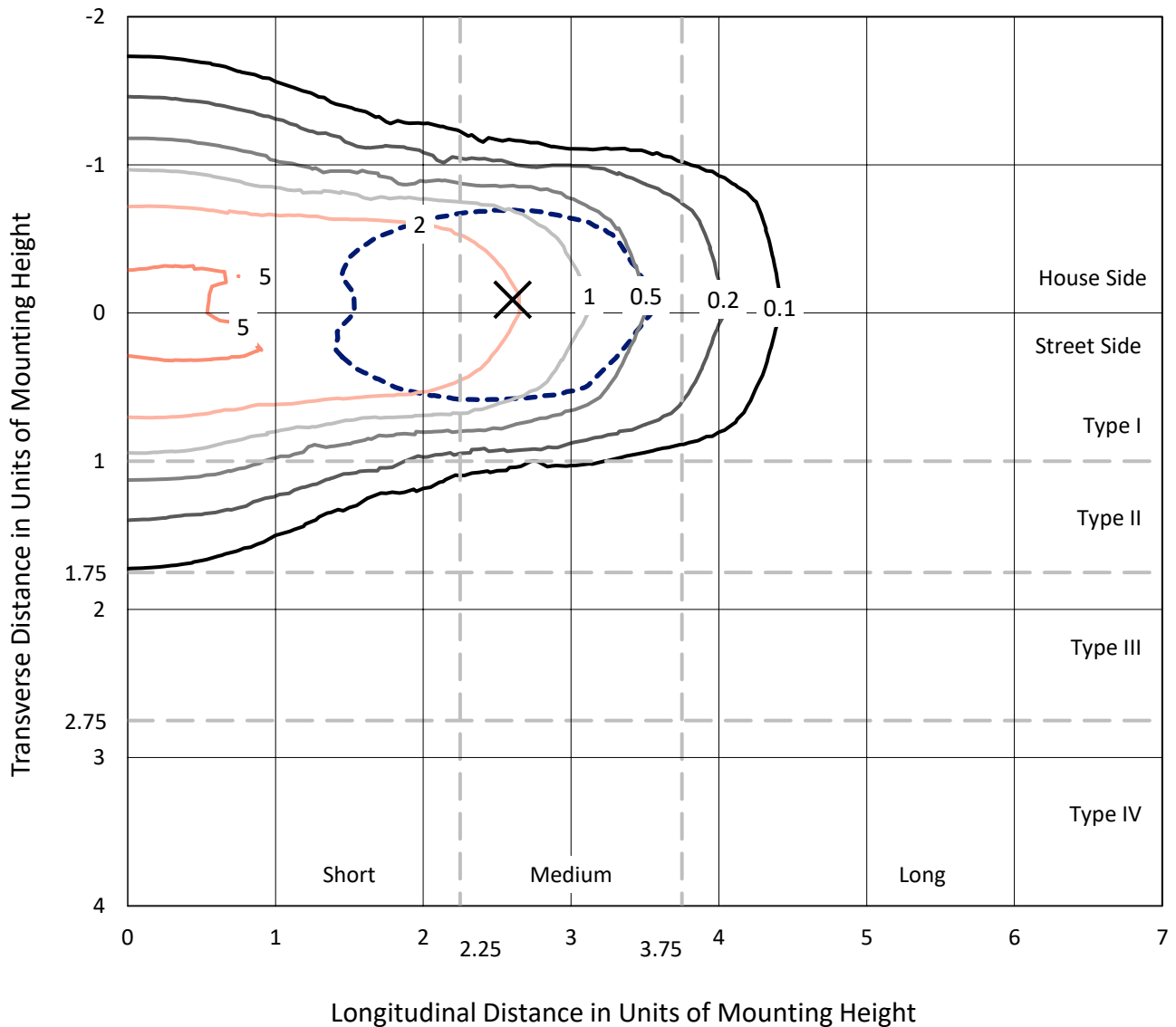
Lumens per Lamp: N/A
Luminaire Lumens: 7468.3 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 67
Input Voltage (V): 120
Input Current (A_{in}): 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

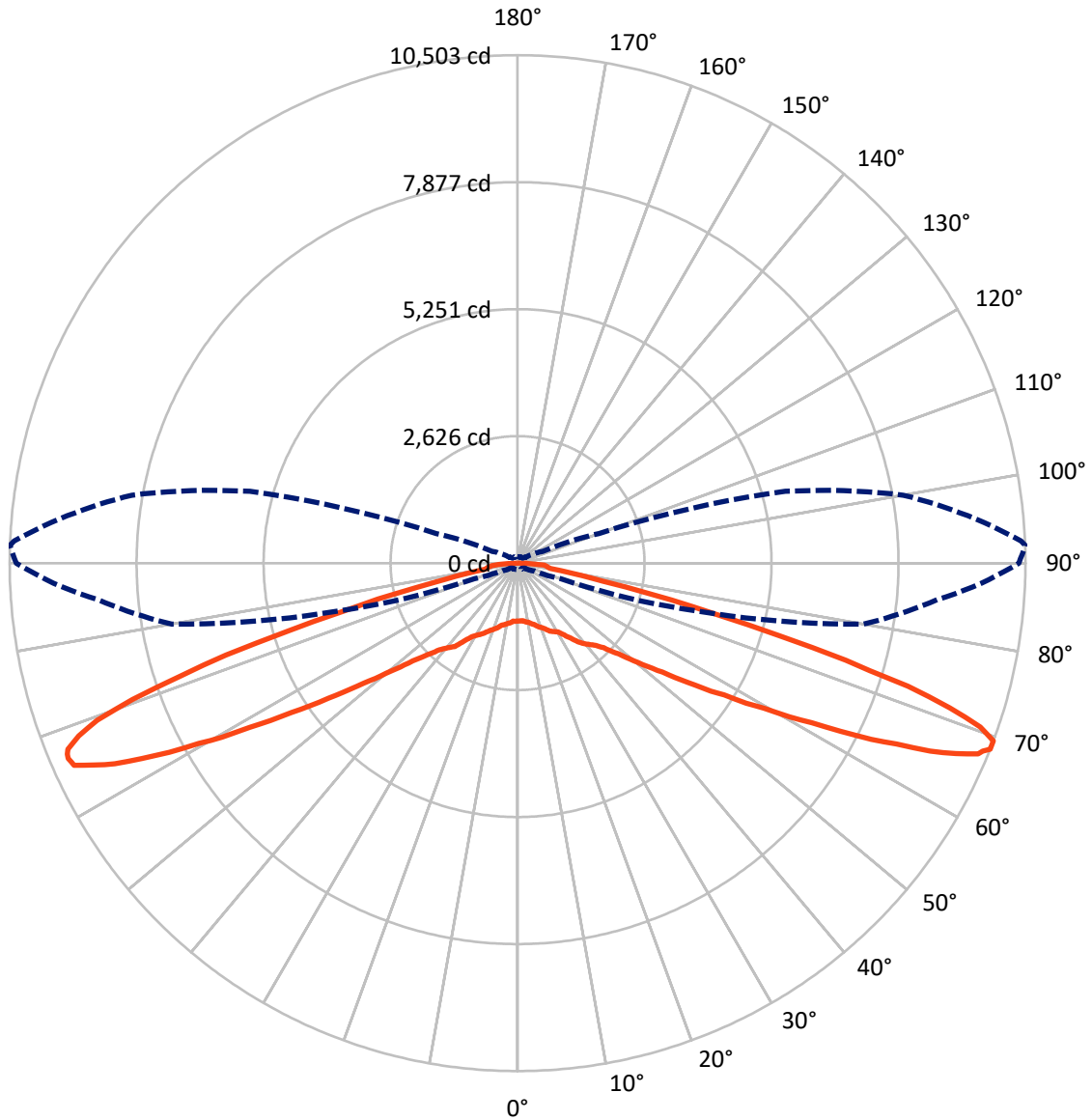
× Max cd
 - - - 1/2 Max cd



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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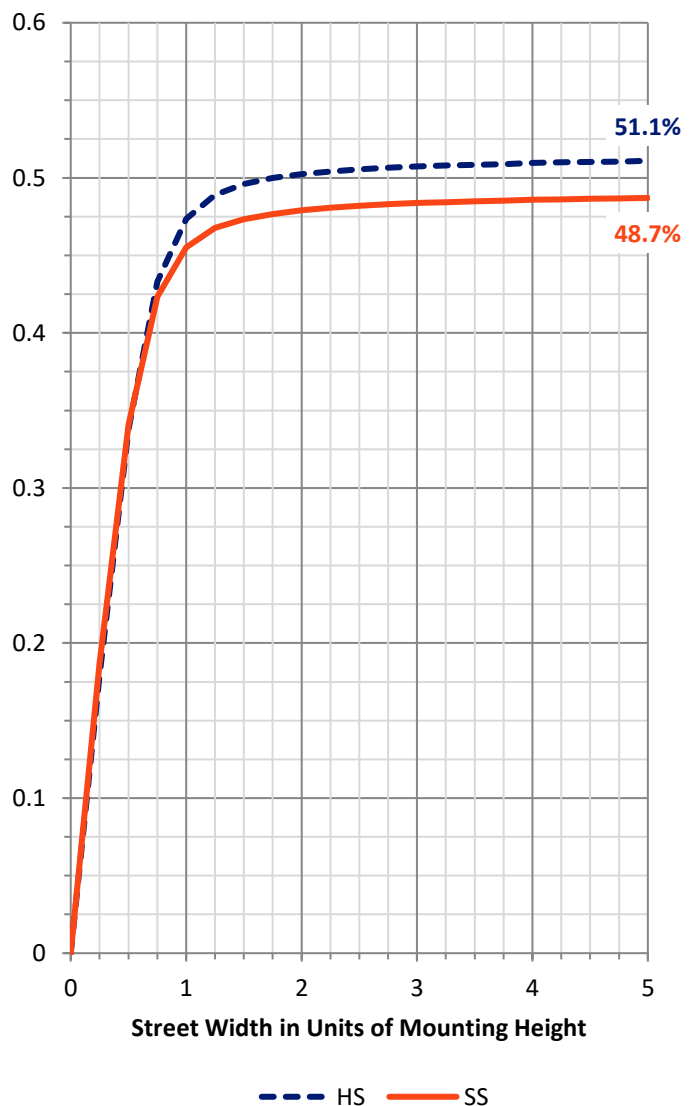
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3846.0	0.0	3846.0
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	3622.2	0.0	3622.2
	% Fixture	48.5	0.0	48.5
Total	Lumens	7468.3	0.0	7468.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	1.6
10°-20°	387.4	5.2
20°-30°	661.2	8.9
30°-40°	923.2	12.4
40°-50°	1174.3	15.7
50°-60°	1484.8	19.9
60°-70°	1831.1	24.5
70°-80°	799.9	10.7
80°-90°	86.8	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°	7468.3	100.0
0°-180°	7468.3	100.0



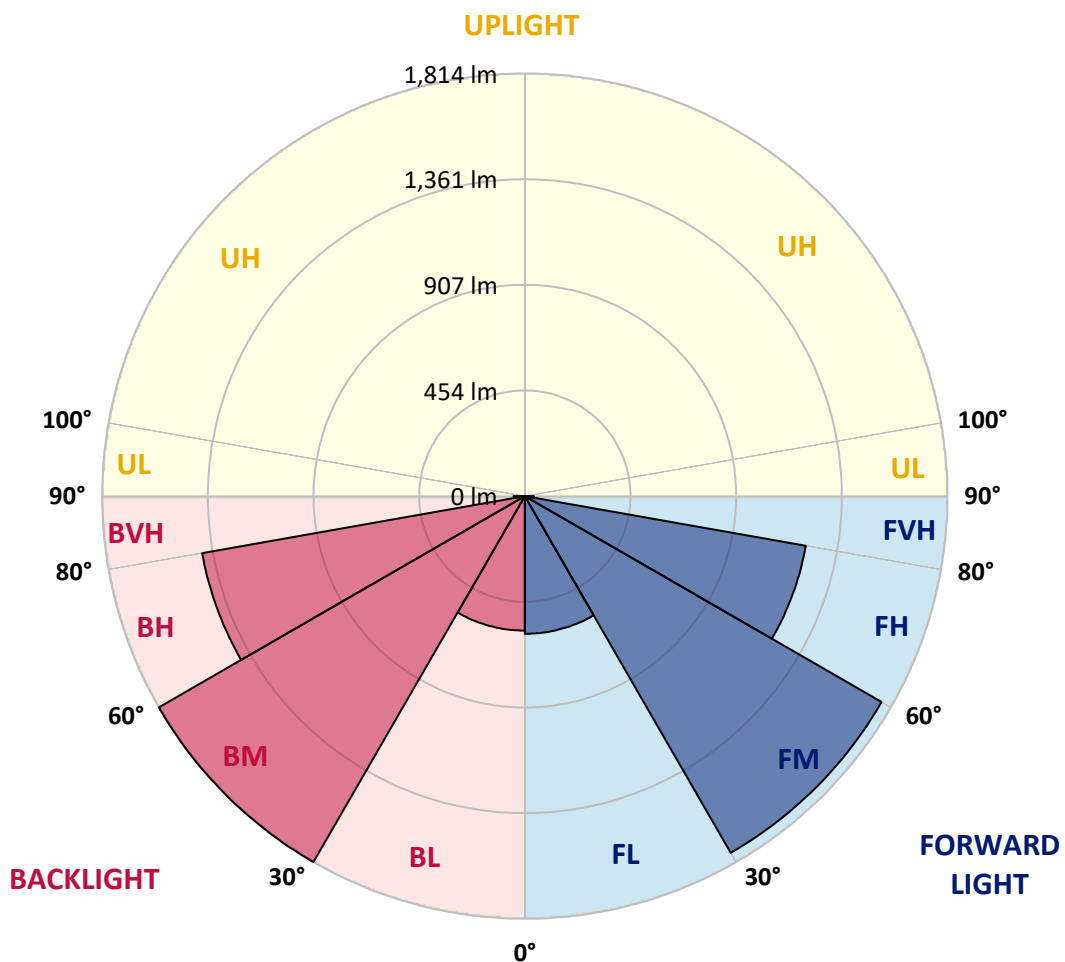
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.0	7.9			
FM (30°-60°)	1768.1	23.7			
FH (60°-80°)	1224.7	16.4			G1/1800
FVH (80°-90°)	38.5	0.5			G1/100
BL (0°-30°)	577.2	7.7	B2/1000		
BM (30°-60°)	1814.2	24.3	B2/2500		
BH (60°-80°)	1406.4	18.8	B3/2500		G3/2500
BVH (80°-90°)	48.3	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°	1194.2	1194.2	1194.2	1194.2	1194.2	1194.2	1194.2	1194.2	1194.2	1194.2	1194.2
2.5°	1219.5	1218.1	1222.3	1225.1	1212.5	1216.7	1213.9	1211.1	1201.2	1197.0	1188.6
5°	1253.1	1257.3	1271.3	1258.7	1264.3	1257.3	1234.9	1241.9	1229.3	1226.5	1218.1
7.5°	1312.0	1303.6	1323.2	1309.2	1313.4	1299.4	1289.6	1276.9	1274.1	1254.5	1255.9
10°	1324.6	1341.4	1349.8	1347.0	1349.8	1356.8	1338.6	1319.0	1292.4	1286.7	1267.1
12.5°	1316.2	1331.6	1354.0	1372.3	1384.9	1387.7	1380.7	1376.5	1365.2	1333.0	1331.6
15°	1307.8	1296.6	1310.6	1373.7	1415.7	1443.7	1453.6	1429.7	1432.5	1390.5	1373.7
17.5°	1251.7	1234.9	1289.6	1351.2	1403.1	1464.8	1512.4	1505.4	1505.4	1471.8	1447.9
20°	1177.4	1205.5	1233.5	1312.0	1407.3	1499.8	1590.9	1586.7	1569.9	1560.1	1508.2
22.5°	1114.3	1127.0	1178.8	1261.5	1380.7	1509.6	1617.5	1694.6	1655.4	1616.1	1585.3
25°	1070.9	1059.7	1125.6	1211.1	1355.4	1492.8	1668.0	1747.9	1768.9	1739.5	1680.6
27.5°	1009.2	1009.2	1061.1	1142.4	1274.1	1484.4	1717.1	1839.0	1869.9	1826.4	1740.9
30°	939.1	947.5	992.4	1084.9	1213.9	1422.7	1736.7	1944.1	1969.4	1931.5	1843.2
32.5°	884.5	884.5	934.9	1033.0	1171.8	1394.7	1724.1	2047.9	2095.5	2067.5	1976.4
35°	825.6	821.4	857.8	965.8	1104.5	1340.0	1719.9	2130.6	2237.1	2238.5	2143.2
37.5°	741.5	758.3	804.6	890.1	1051.3	1286.7	1707.3	2230.1	2420.7	2453.0	2387.1
40°	685.4	692.4	734.5	828.4	968.6	1223.7	1689.0	2311.4	2542.7	2653.4	2562.3
42.5°	604.1	613.9	646.2	762.5	888.7	1134.0	1609.1	2368.9	2716.5	2842.6	2765.5
45°	518.6	524.2	571.9	667.2	803.2	1027.4	1523.6	2461.4	2884.7	3142.6	3097.7
47.5°	416.3	419.1	459.8	559.3	700.8	920.9	1391.9	2457.2	3020.6	3442.5	3568.7
50°	325.2	332.2	363.0	444.3	577.5	790.6	1239.1	2423.5	3191.6	3784.6	4032.7
52.5°	259.3	260.7	280.3	344.8	445.7	660.2	1075.1	2317.0	3352.8	4119.6	4601.7
55°	214.5	214.5	225.7	264.9	342.0	501.8	883.1	2140.4	3372.5	4489.6	5222.7
56°	206.0	203.2	213.1	246.7	308.4	452.7	793.4	2021.2	3400.5	4660.6	5533.9
57°	194.8	196.2	201.8	225.7	277.5	400.9	693.8	1904.9	3380.9	4800.8	5763.7
58°	189.2	186.4	197.6	213.1	245.3	356.0	625.2	1767.5	3350.0	4915.7	6098.7
59°	180.8	179.4	186.4	200.4	228.5	316.8	541.1	1618.9	3289.8	5064.3	6348.2
60°	178.0	176.6	179.4	190.6	210.3	277.5	476.6	1445.1	3128.6	5217.1	6658.0
61°	169.6	171.0	176.6	183.6	199.0	249.5	428.9	1267.1	3023.4	5346.0	7000.0
62°	171.0	168.2	171.0	176.6	187.8	229.9	375.7	1091.9	2835.6	5491.8	7256.5
63°	162.6	161.2	165.4	172.4	178.0	207.4	328.0	943.3	2622.6	5525.5	7473.8
64°	159.8	158.4	159.8	169.6	171.0	194.8	290.1	806.0	2314.2	5582.9	7752.7
65°	152.8	152.8	155.6	159.8	165.4	183.6	259.3	699.4	2007.2	5431.5	7838.2
66°	147.2	148.6	148.6	155.6	159.8	171.0	238.3	594.3	1712.9	5190.4	7920.9
67°	143.0	143.0	144.4	150.0	154.2	161.2	214.5	514.4	1445.1	4903.1	7793.4
67.5°	140.2	141.6	141.6	147.2	151.4	161.2	204.6	487.8	1292.4	4587.7	7698.1
68°	136.0	137.4	137.4	143.0	147.2	155.6	197.6	445.7	1191.4	4383.1	7521.5
69°	133.2	131.8	131.8	137.4	143.0	148.6	183.6	389.7	947.5	3811.2	7263.5
70°	124.8	124.8	127.6	131.8	136.0	141.6	169.6	343.4	801.8	3155.2	6599.1
71°	120.5	119.1	120.5	124.8	129.0	136.0	155.6	304.2	656.0	2619.8	5946.0
72°	112.1	114.9	114.9	119.1	123.3	127.6	145.8	264.9	550.9	2094.1	5226.9
72.5°	110.7	110.7	112.1	116.3	119.1	126.2	140.2	253.7	503.2	1846.0	4925.5
73°	106.5	106.5	107.9	112.1	114.9	121.9	136.0	228.5	458.4	1642.8	4362.1
74°	102.3	100.9	100.9	106.5	107.9	114.9	127.6	201.8	384.1	1237.7	3501.4
75°	95.3	95.3	96.7	99.5	100.9	106.5	117.7	179.4	323.8	960.2	2738.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	78.5	79.9	81.3	84.1	84.1	88.3	96.7	124.8	197.6	486.4	1257.3
80°	57.5	60.3	64.5	68.7	67.3	67.3	75.7	89.7	117.7	218.7	482.2
82.5°	46.3	49.1	44.9	50.5	50.5	47.7	54.7	65.9	79.9	107.9	172.4
85°	30.8	32.2	26.6	30.8	29.4	29.4	36.4	39.2	49.1	60.3	85.5
87.5°	14.0	14.0	11.2	12.6	12.6	12.6	18.2	14.0	21.0	29.4	50.5
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°	1194.2	1194.2	1194.2	1194.2	1194.2	1194.2	1194.2	1194.2	1194.2	1194.2	1194.2
2.5°	1197.0	1202.6	1202.6	1197.0	1192.8	1197.0	1194.2	1187.2	1194.2	1197.0	1198.4
5°	1213.9	1202.6	1208.3	1195.6	1204.0	1202.6	1199.8	1206.9	1208.3	1208.3	1218.1
7.5°	1232.1	1246.1	1227.9	1229.3	1233.5	1216.7	1222.3	1225.1	1219.5	1230.7	1239.1
10°	1264.3	1269.9	1264.3	1243.3	1257.3	1246.1	1241.9	1254.5	1251.7	1254.5	1267.1
12.5°	1293.8	1303.6	1288.2	1286.7	1279.7	1269.9	1275.5	1274.1	1293.8	1296.6	1312.0
15°	1354.0	1328.8	1323.2	1321.8	1319.0	1314.8	1317.6	1319.0	1344.2	1348.4	1384.9
17.5°	1405.9	1401.7	1370.9	1382.1	1382.1	1365.2	1358.2	1382.1	1401.7	1422.7	1447.9
20°	1459.2	1455.0	1421.3	1422.7	1410.1	1425.5	1417.1	1439.5	1473.2	1480.2	1502.6
22.5°	1522.2	1504.0	1480.2	1483.0	1487.2	1476.0	1470.4	1501.2	1534.8	1554.5	1555.9
25°	1621.8	1575.5	1555.9	1558.7	1553.1	1544.7	1548.9	1588.1	1604.9	1647.0	1638.6
27.5°	1675.0	1648.4	1634.4	1602.1	1603.5	1590.9	1607.7	1666.6	1700.2	1732.5	1668.0
30°	1739.5	1722.7	1661.0	1649.8	1648.4	1642.8	1673.6	1749.3	1799.8	1818.0	1725.5
32.5°	1865.6	1798.4	1782.9	1773.1	1750.7	1757.7	1773.1	1872.7	1952.6	1948.3	1778.7
35°	2010.0	1963.8	1920.3	1911.9	1909.1	1889.5	1916.1	2032.4	2094.1	2075.9	1798.4
37.5°	2241.3	2171.2	2112.3	2080.1	2074.5	2060.5	2123.6	2216.1	2296.0	2224.5	1813.8
40°	2354.8	2276.3	2221.7	2202.1	2206.3	2225.9	2287.6	2429.1	2464.2	2332.4	1826.4
42.5°	2517.4	2431.9	2324.0	2314.2	2301.6	2311.4	2430.5	2621.2	2650.6	2478.2	1778.7
45°	2806.2	2677.2	2552.5	2496.4	2499.2	2525.8	2710.9	2919.7	2865.0	2579.1	1703.1
47.5°	3170.6	2981.4	2880.5	2804.8	2841.2	2811.8	3106.1	3272.9	3086.5	2706.7	1610.5
50°	3718.7	3453.8	3316.4	3225.3	3240.7	3265.9	3564.5	3706.1	3331.8	2768.3	1469.0
52.5°	4409.7	4069.1	3867.3	3745.3	3756.5	3811.2	4196.7	4153.2	3612.1	2820.2	1279.7
55°	5236.7	4886.3	4495.2	4444.8	4432.1	4562.5	4987.2	4621.4	3864.5	2737.5	1083.5
56°	5674.0	5301.2	4894.7	4791.0	4760.1	4851.2	5350.2	4855.4	3951.4	2645.0	989.6
57°	6045.5	5689.5	5243.7	5067.1	5106.3	5277.4	5710.5	5075.5	4031.3	2549.7	901.3
58°	6555.7	6149.2	5678.2	5543.7	5508.6	5644.6	6098.7	5297.0	4057.9	2451.6	820.0
59°	7064.5	6576.7	6152.0	5906.7	5916.5	6164.6	6481.4	5560.5	4098.5	2326.8	716.3
60°	7451.4	7206.1	6638.4	6454.8	6429.5	6788.4	6862.7	5737.1	4142.0	2158.6	643.4
61°	7999.4	7679.8	7151.4	6914.5	6983.2	7270.6	7274.8	5958.6	4077.5	1945.5	553.7
62°	8393.3	8309.2	7754.1	7528.5	7507.4	7888.7	7703.7	6153.4	4021.4	1743.7	489.2
63°	8854.5	8854.5	8348.5	8171.8	8181.7	8483.0	7890.1	6348.2	3957.0	1520.8	430.3
64°	9094.2	9395.5	8928.8	8680.7	8745.1	9005.8	8222.3	6475.8	3757.9	1295.2	378.5
65°	9301.6	9754.3	9495.0	9380.1	9282.0	9436.2	8509.6	6594.9	3453.8	1101.7	336.4
66°	9476.8	10092.2	10006.6	9883.3	9873.5	9838.4	8565.7	6590.7	3139.8	930.7	294.4
67°	9388.5	10099.2	10254.7	10306.6	10291.2	9921.1	8467.6	6440.8	2737.5	786.3	262.1
67.5°	9308.6	10041.7	10403.3	10373.9	10438.4	9991.2	8484.4	6257.1	2451.6	712.1	246.7
68°	9238.5	9964.6	10463.6	10501.4	10469.2	9999.6	8391.9	6111.4	2256.7	668.6	232.7
69°	8707.3	9598.8	10366.9	10502.8	10420.1	9678.7	8097.6	5731.5	1792.8	570.5	214.5
70°	8174.6	9125.0	9897.3	10146.8	10044.5	9057.7	7726.1	5127.4	1478.8	487.8	193.4
71°	7437.4	8244.7	9272.2	9422.1	9298.8	8351.3	6958.0	4489.6	1150.8	413.5	172.4
72°	6436.6	7122.0	8103.2	8466.2	8284.0	7335.0	6181.4	3710.3	932.1	347.6	157.0
72.5°	5940.4	6642.6	7588.7	7618.2	7653.2	6893.5	5852.0	3258.9	813.0	322.4	152.8
73°	5469.4	6157.6	6976.2	7079.9	6931.3	6149.2	5360.1	2914.1	742.9	294.4	147.2
74°	4432.1	4824.6	5503.0	5603.9	5473.6	5013.8	4380.3	2234.3	591.5	253.7	134.6
75°	3487.4	3703.3	4317.2	4255.5	4060.7	3899.5	3396.3	1707.3	479.4	222.9	124.8



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1567.1	1697.4	1799.8	1799.8	1811.0	1728.3	1565.7	783.5	295.8	161.2	102.3
80°	597.1	668.6	691.0	692.4	702.2	727.5	677.0	385.5	175.2	114.9	82.7
82.5°	433.1	605.5	651.8	618.1	620.9	560.7	259.3	171.0	110.7	79.9	60.3
85°	392.5	527.0	557.9	553.7	555.1	518.6	152.8	84.1	64.5	50.5	42.1
87.5°	190.6	186.4	197.6	222.9	217.3	281.7	129.0	42.1	28.0	21.0	21.0
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):

	135°	145°	155°	165°	175°	180°
0°	1194.2	1194.2	1194.2	1194.2	1194.2	1194.2
2.5°	1187.2	1185.8	1205.5	1185.8	1197.0	1188.6
5°	1201.2	1206.9	1211.1	1219.5	1199.8	1219.5
7.5°	1243.3	1248.9	1250.3	1257.3	1248.9	1247.5
10°	1275.5	1289.6	1298.0	1269.9	1286.7	1285.3
12.5°	1338.6	1324.6	1323.2	1317.6	1302.2	1296.6
15°	1383.5	1362.4	1349.8	1327.4	1309.2	1302.2
17.5°	1446.5	1405.9	1354.0	1307.8	1275.5	1250.3
20°	1485.8	1412.9	1309.2	1254.5	1205.5	1216.7
22.5°	1511.0	1405.9	1268.5	1198.4	1149.4	1163.4
25°	1519.4	1370.9	1240.5	1153.6	1105.9	1096.1
27.5°	1495.6	1330.2	1185.8	1087.7	1045.7	1054.1
30°	1484.4	1271.3	1135.4	1038.7	982.6	991.0
32.5°	1455.0	1211.1	1068.1	970.0	929.3	915.3
35°	1412.9	1160.6	1003.6	911.1	862.0	850.8
37.5°	1361.0	1097.5	947.5	835.4	792.0	783.5
40°	1283.9	1021.8	866.2	769.5	719.1	717.7
42.5°	1216.7	948.9	790.6	691.0	640.6	643.4
45°	1131.2	850.8	703.6	618.1	567.7	570.5
47.5°	1021.8	759.7	620.9	525.6	483.6	480.8
50°	892.9	656.0	520.0	438.7	403.7	396.7
52.5°	769.5	550.9	426.1	353.2	323.8	321.0
55°	613.9	428.9	332.2	277.5	255.1	256.5
56°	557.9	395.3	302.8	253.7	236.9	236.9
57°	504.6	350.4	274.7	234.1	218.7	218.7
58°	445.7	308.4	249.5	211.7	204.6	199.0
59°	405.1	280.3	225.7	200.4	189.2	187.8
60°	357.4	252.3	210.3	187.8	179.4	178.0
61°	316.8	227.1	193.4	175.2	172.4	172.4
62°	283.1	210.3	179.4	169.6	168.2	164.0
63°	253.7	193.4	172.4	161.2	157.0	161.2
64°	227.1	178.0	166.8	158.4	152.8	155.6
65°	206.0	171.0	159.8	154.2	148.6	150.0
66°	192.0	159.8	154.2	147.2	144.4	145.8
67°	173.8	154.2	148.6	141.6	140.2	141.6
67.5°	168.2	150.0	145.8	138.8	137.4	138.8
68°	164.0	147.2	144.4	137.4	136.0	134.6
69°	152.8	141.6	137.4	134.6	131.8	130.4
70°	143.0	136.0	133.2	129.0	126.2	124.8
71°	137.4	129.0	127.6	123.3	120.5	119.1
72°	130.4	124.8	121.9	116.3	114.9	116.3
72.5°	129.0	121.9	120.5	114.9	113.5	113.5
73°	124.8	116.3	117.7	112.1	109.3	112.1
74°	116.3	113.5	110.7	106.5	105.1	105.1
75°	109.3	106.5	103.7	100.9	100.9	100.9



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	92.5	91.1	92.5	86.9	85.5	84.1
80°	74.3	74.3	75.7	71.5	68.7	67.3
82.5°	56.1	57.5	60.3	56.1	53.3	50.5
85°	36.4	37.8	37.8	33.6	39.2	36.4
87.5°	18.2	19.6	18.2	16.8	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)