

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: P676156

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676156
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-760-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T1 distribution lens
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

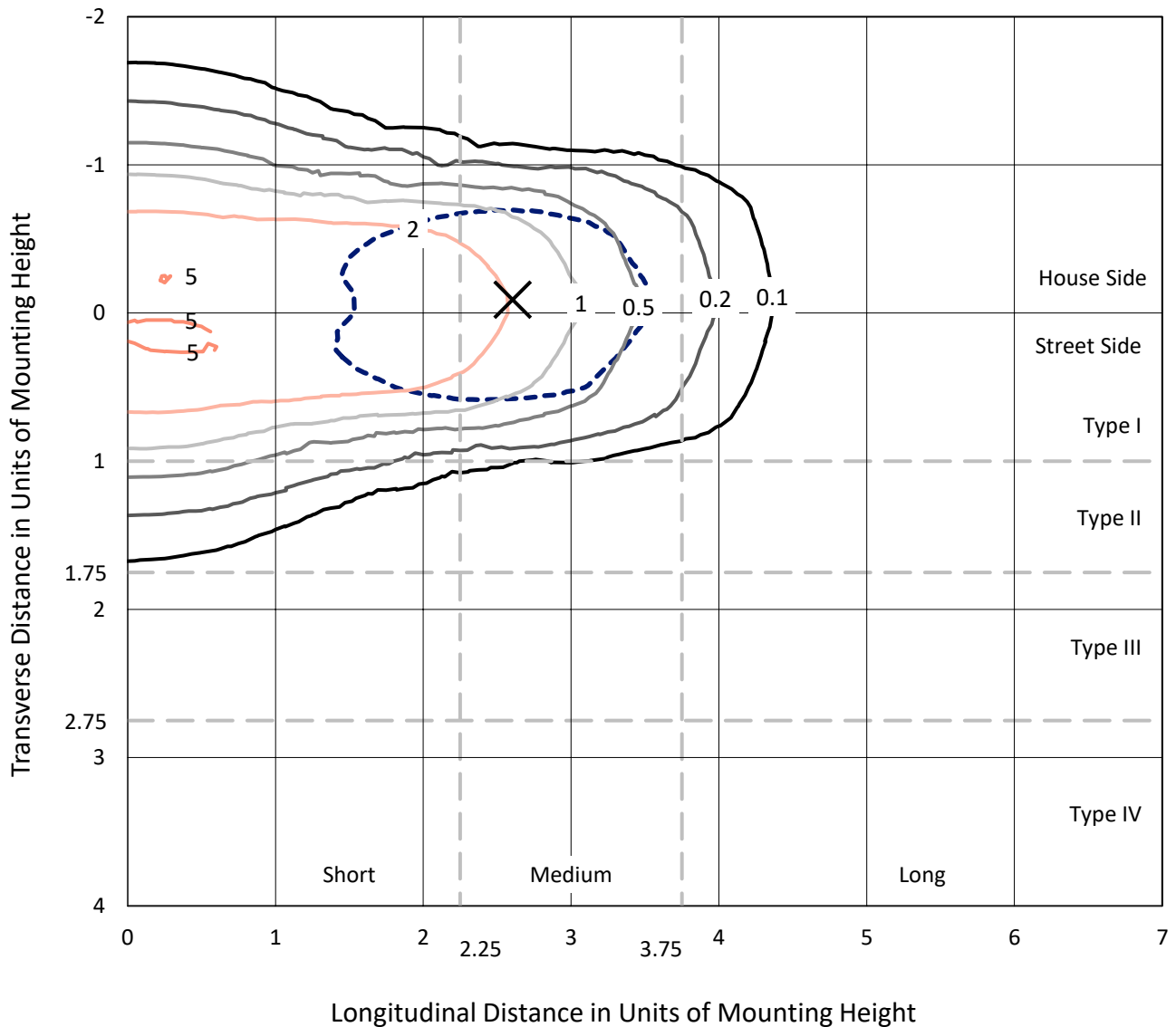
Lumens per Lamp: N/A
Luminaire Lumens: 6810.2 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 56.1
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

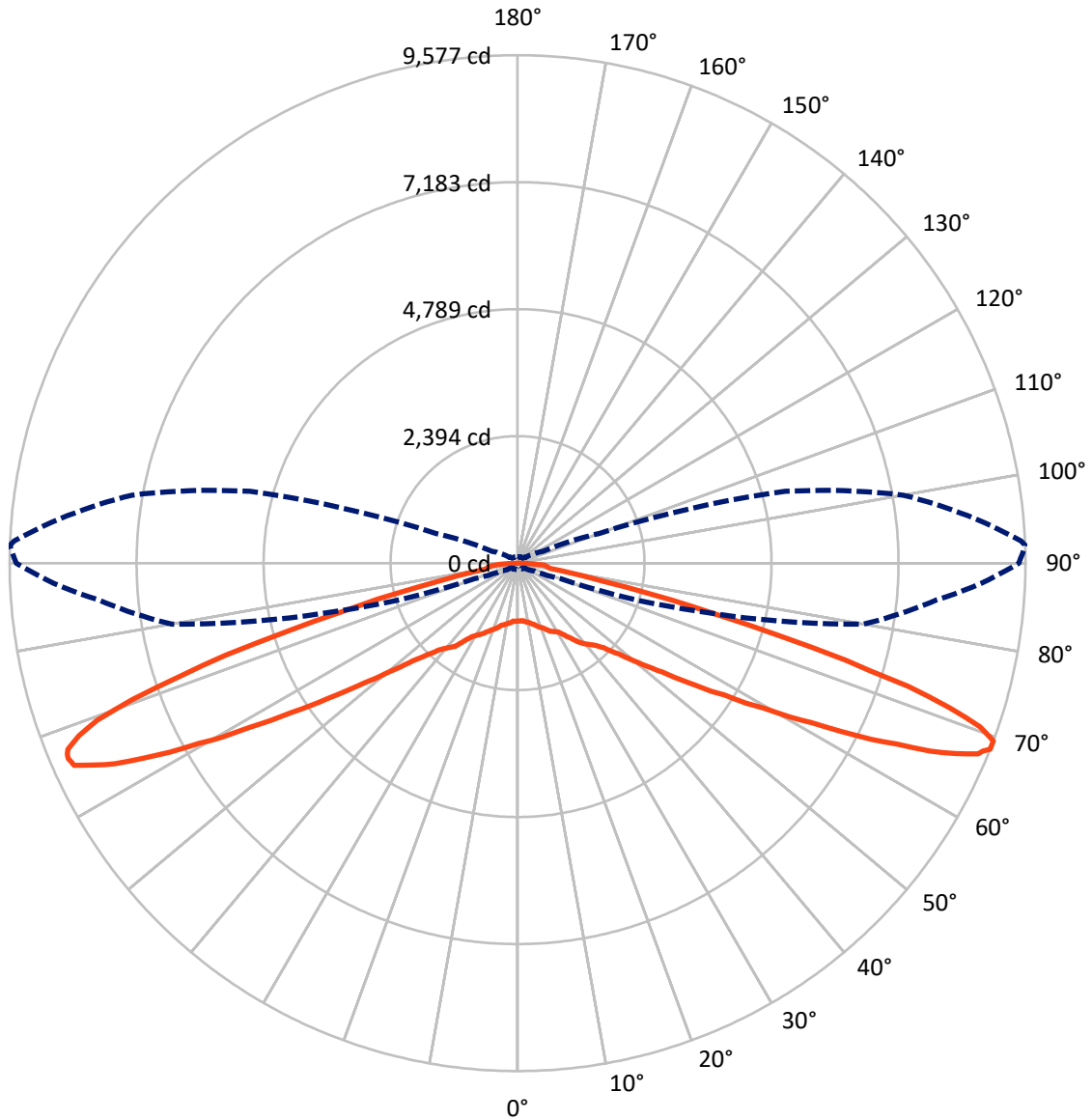
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.3 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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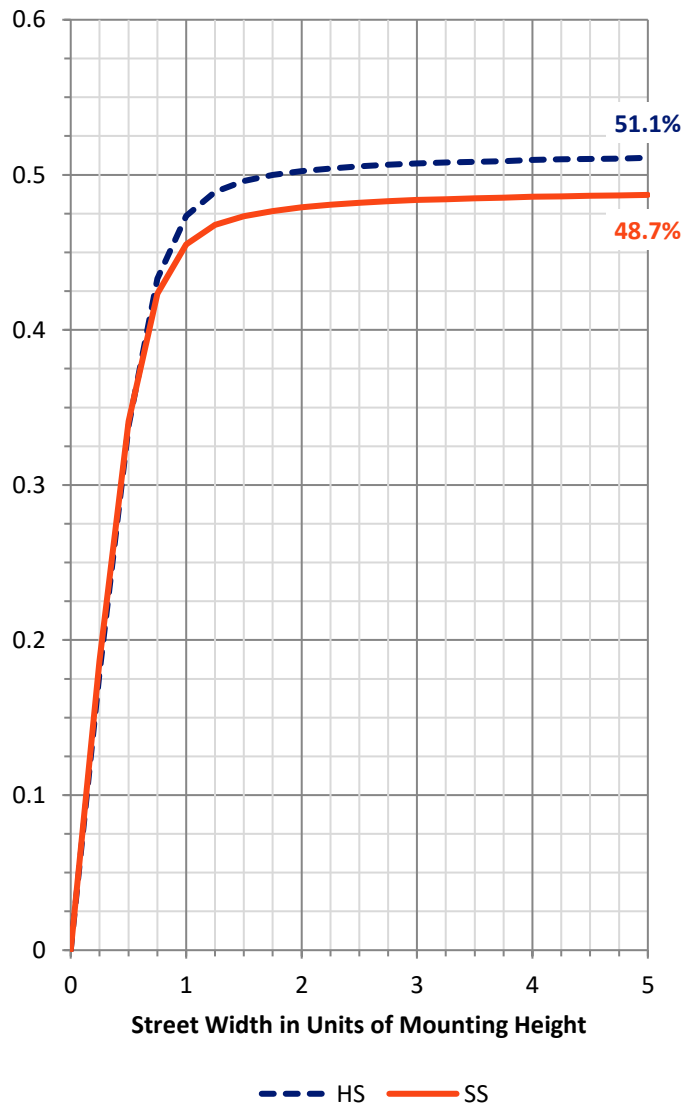
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3507.2	0.0	3507.2
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	3303.1	0.0	3303.1
	% Fixture	48.5	0.0	48.5
Total	Lumens	6810.2	0.0	6810.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	1.6
10°-20°	353.3	5.2
20°-30°	602.9	8.9
30°-40°	841.8	12.4
40°-50°	1070.8	15.7
50°-60°	1354.0	19.9
60°-70°	1669.8	24.5
70°-80°	729.4	10.7
80°-90°	79.1	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°	6810.2	100.0
0°-180°	6810.2	100.0



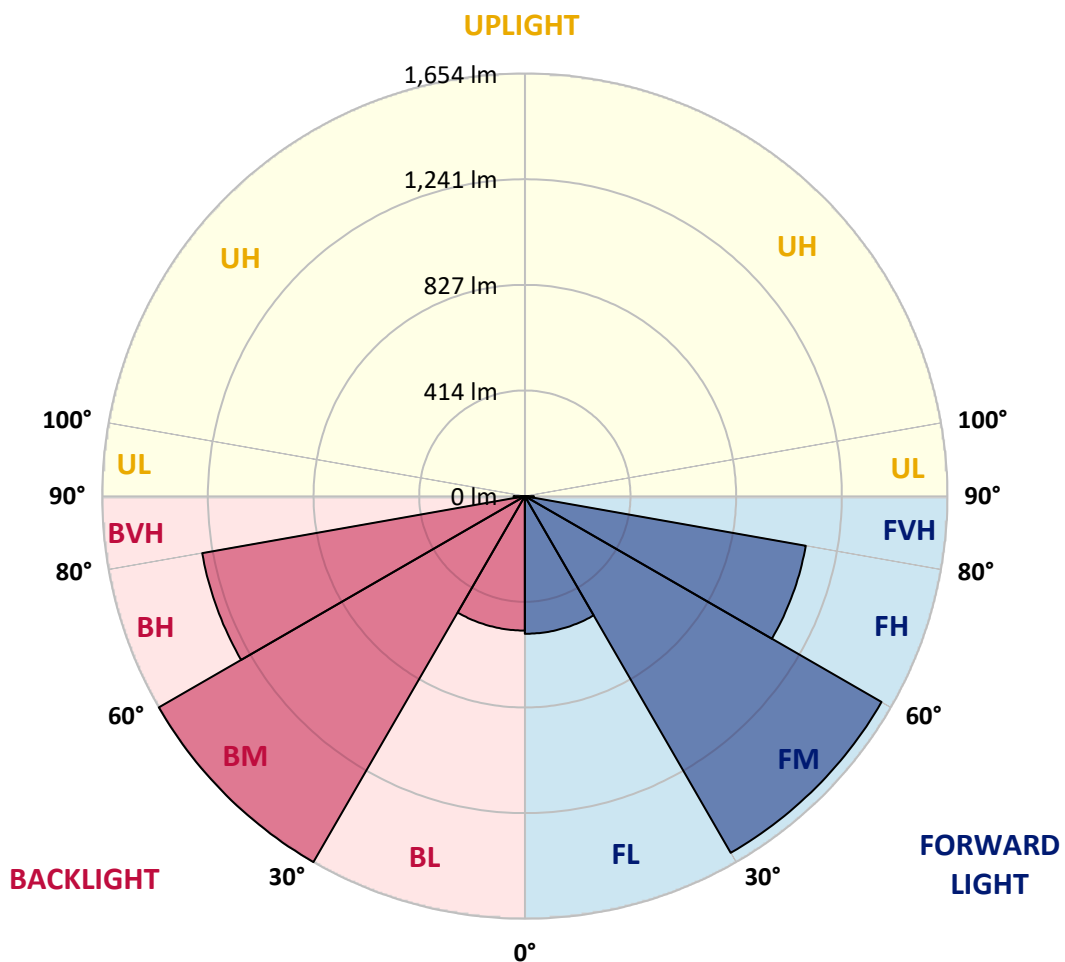
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	539.0	7.9			
FM (30°-60°)	1612.3	23.7			
FH (60°-80°)	1116.7	16.4			G1/1800
FVH (80°-90°)	35.1	0.5			G1/100
BL (0°-30°)	526.3	7.7	B2/1000		
BM (30°-60°)	1654.3	24.3	B2/2500		
BH (60°-80°)	1282.5	18.8	B3/2500		G3/2500
BVH (80°-90°)	44.0	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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1112.0	1110.7	1114.6	1117.1	1105.6	1109.5	1106.9	1104.3	1095.4	1091.6	1083.9
5°	1142.7	1146.5	1159.3	1147.8	1152.9	1146.5	1126.1	1132.5	1121.0	1118.4	1110.7
7.5°	1196.4	1188.7	1206.6	1193.8	1197.7	1184.9	1175.9	1164.4	1161.9	1144.0	1145.2
10°	1207.9	1223.2	1230.9	1228.3	1230.9	1237.3	1220.7	1202.8	1178.5	1173.4	1155.5
12.5°	1200.2	1214.3	1234.7	1251.3	1262.8	1265.4	1259.0	1255.2	1244.9	1215.5	1214.3
15°	1192.5	1182.3	1195.1	1252.6	1291.0	1316.5	1325.5	1303.7	1306.3	1268.0	1252.6
17.5°	1141.4	1126.1	1175.9	1232.2	1279.5	1335.7	1379.2	1372.8	1372.8	1342.1	1320.4
20°	1073.7	1099.2	1124.8	1196.4	1283.3	1367.7	1450.7	1446.9	1431.6	1422.6	1375.3
22.5°	1016.2	1027.7	1074.9	1150.4	1259.0	1376.6	1475.0	1545.3	1509.5	1473.7	1445.6
25°	976.5	966.3	1026.4	1104.3	1236.0	1361.3	1521.0	1593.9	1613.1	1586.2	1532.5
27.5°	920.3	920.3	967.6	1041.7	1161.9	1353.6	1565.8	1677.0	1705.1	1665.5	1587.5
30°	856.4	864.0	905.0	989.3	1106.9	1297.4	1583.7	1772.8	1795.8	1761.3	1680.8
32.5°	806.5	806.5	852.5	942.0	1068.6	1271.8	1572.2	1867.4	1910.9	1885.3	1802.2
35°	752.8	749.0	782.2	880.7	1007.2	1221.9	1568.3	1942.8	2040.0	2041.3	1954.3
37.5°	676.2	691.5	733.7	811.6	958.6	1173.4	1556.8	2033.6	2207.4	2236.8	2176.7
40°	625.0	631.4	669.8	755.4	883.2	1115.9	1540.2	2107.7	2318.6	2419.6	2336.5
42.5°	550.9	559.8	589.2	695.3	810.4	1034.0	1467.4	2160.1	2477.1	2592.1	2521.8
45°	472.9	478.0	521.5	608.4	732.4	936.9	1389.4	2244.5	2630.5	2865.7	2824.8
47.5°	379.6	382.2	419.2	510.0	639.1	839.8	1269.2	2240.7	2754.5	3139.2	3254.2
50°	296.5	302.9	331.0	405.2	526.6	720.9	1129.9	2210.0	2910.4	3451.1	3677.3
52.5°	236.5	237.7	255.6	314.4	406.5	602.0	980.4	2112.8	3057.4	3756.6	4196.3
55°	195.6	195.6	205.8	241.6	311.9	457.6	805.3	1951.8	3075.3	4094.0	4762.5
56°	187.9	185.3	194.3	225.0	281.2	412.9	723.5	1843.1	3100.9	4249.9	5046.3
57°	177.7	178.9	184.1	205.8	253.1	365.6	632.7	1737.0	3083.0	4377.8	5255.9
58°	172.6	170.0	180.2	194.3	223.7	324.7	570.1	1611.8	3054.9	4482.6	5561.4
59°	164.9	163.6	170.0	182.8	208.3	288.9	493.4	1476.3	2999.9	4618.1	5788.9
60°	162.3	161.1	163.6	173.8	191.7	253.1	434.6	1317.8	2852.9	4757.4	6071.4
61°	154.7	155.9	161.1	167.4	181.5	227.5	391.1	1155.5	2757.0	4875.0	6383.2
62°	155.9	153.4	155.9	161.1	171.3	209.6	342.6	995.7	2585.8	5007.9	6617.1
63°	148.3	147.0	150.8	157.2	162.3	189.2	299.1	860.2	2391.5	5038.6	6815.3
64°	145.7	144.4	145.7	154.7	155.9	177.7	264.6	735.0	2110.3	5091.0	7069.6
65°	139.3	139.3	141.9	145.7	150.8	167.4	236.5	637.8	1830.4	4952.9	7147.6
66°	134.2	135.5	135.5	141.9	145.7	155.9	217.3	541.9	1561.9	4733.1	7223.0
67°	130.4	130.4	131.7	136.8	140.6	147.0	195.6	469.1	1317.8	4471.1	7106.7
67.5°	127.8	129.1	129.1	134.2	138.0	147.0	186.6	444.8	1178.5	4183.5	7019.8
68°	124.0	125.3	125.3	130.4	134.2	141.9	180.2	406.5	1086.5	3996.9	6858.7
69°	121.4	120.1	120.1	125.3	130.4	135.5	167.4	355.3	864.0	3475.4	6623.5
70°	113.8	113.8	116.3	120.1	124.0	129.1	154.7	313.2	731.1	2877.2	6017.7
71°	109.9	108.6	109.9	113.8	117.6	124.0	141.9	277.4	598.2	2388.9	5422.0
72°	102.3	104.8	104.8	108.6	112.5	116.3	132.9	241.6	502.3	1909.6	4766.3
72.5°	101.0	101.0	102.3	106.1	108.6	115.0	127.8	231.4	458.9	1683.4	4491.5
73°	97.1	97.1	98.4	102.3	104.8	111.2	124.0	208.3	418.0	1498.0	3977.7
74°	93.3	92.0	92.0	97.1	98.4	104.8	116.3	184.1	350.2	1128.6	3192.9
75°	86.9	86.9	88.2	90.8	92.0	97.1	107.4	163.6	295.3	875.6	2497.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	71.6	72.9	74.1	76.7	76.7	80.5	88.2	113.8	180.2	443.5	1146.5
80°	52.4	55.0	58.8	62.6	61.4	61.4	69.0	81.8	107.4	199.4	439.7
82.5°	42.2	44.7	40.9	46.0	46.0	43.5	49.8	60.1	72.9	98.4	157.2
85°	28.1	29.4	24.3	28.1	26.8	26.8	33.2	35.8	44.7	55.0	78.0
87.5°	12.8	12.8	10.2	11.5	11.5	11.5	16.6	12.8	19.2	26.8	46.0
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):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1091.6	1096.7	1096.7	1091.6	1087.7	1091.6	1089.0	1082.6	1089.0	1091.6	1092.8
5°	1106.9	1096.7	1101.8	1090.3	1098.0	1096.7	1094.1	1100.5	1101.8	1101.8	1110.7
7.5°	1123.5	1136.3	1119.7	1121.0	1124.8	1109.5	1114.6	1117.1	1112.0	1122.2	1129.9
10°	1152.9	1158.0	1152.9	1133.7	1146.5	1136.3	1132.5	1144.0	1141.4	1144.0	1155.5
12.5°	1179.8	1188.7	1174.6	1173.4	1167.0	1158.0	1163.1	1161.9	1179.8	1182.3	1196.4
15°	1234.7	1211.7	1206.6	1205.3	1202.8	1198.9	1201.5	1202.8	1225.8	1229.6	1262.8
17.5°	1282.0	1278.2	1250.1	1260.3	1260.3	1244.9	1238.6	1260.3	1278.2	1297.4	1320.4
20°	1330.6	1326.8	1296.1	1297.4	1285.8	1299.9	1292.2	1312.7	1343.4	1349.8	1370.2
22.5°	1388.1	1371.5	1349.8	1352.3	1356.1	1345.9	1340.8	1368.9	1399.6	1417.5	1418.8
25°	1478.9	1436.7	1418.8	1421.3	1416.2	1408.6	1412.4	1448.2	1463.5	1501.9	1494.2
27.5°	1527.4	1503.1	1490.4	1461.0	1462.2	1450.7	1466.1	1519.8	1550.4	1579.8	1521.0
30°	1586.2	1570.9	1514.6	1504.4	1503.1	1498.0	1526.1	1595.2	1641.2	1657.8	1573.4
32.5°	1701.3	1639.9	1625.8	1616.9	1596.4	1602.8	1616.9	1707.6	1780.5	1776.7	1622.0
35°	1832.9	1790.7	1751.1	1743.4	1740.9	1723.0	1747.3	1853.4	1909.6	1893.0	1639.9
37.5°	2043.8	1979.9	1926.2	1896.8	1891.7	1878.9	1936.4	2020.8	2093.7	2028.5	1654.0
40°	2147.3	2075.8	2025.9	2008.0	2011.9	2029.8	2086.0	2215.1	2247.0	2126.9	1665.5
42.5°	2295.6	2217.6	2119.2	2110.3	2098.8	2107.7	2216.4	2390.2	2417.0	2259.8	1622.0
45°	2558.9	2441.3	2327.6	2276.4	2279.0	2303.3	2472.0	2662.4	2612.6	2351.9	1553.0
47.5°	2891.2	2718.7	2626.7	2557.6	2590.9	2564.0	2832.4	2984.6	2814.6	2468.2	1468.6
50°	3391.0	3149.4	3024.2	2941.1	2955.2	2978.2	3250.4	3379.5	3038.2	2524.4	1339.5
52.5°	4021.2	3710.6	3526.5	3415.3	3425.5	3475.4	3826.9	3787.2	3293.9	2571.7	1167.0
55°	4775.3	4455.7	4099.1	4053.1	4041.6	4160.5	4547.8	4214.2	3523.9	2496.3	988.0
56°	5174.1	4834.1	4463.4	4368.8	4340.7	4423.8	4878.8	4427.6	3603.2	2411.9	902.4
57°	5512.8	5188.1	4781.7	4620.6	4656.4	4812.3	5207.3	4628.3	3676.0	2325.0	821.9
58°	5978.0	5607.4	5177.9	5055.2	5023.2	5147.2	5561.4	4830.2	3700.3	2235.5	747.7
59°	6442.0	5997.2	5609.9	5386.3	5395.2	5621.4	5910.3	5070.5	3737.4	2121.8	653.2
60°	6794.8	6571.1	6053.5	5886.0	5863.0	6190.2	6258.0	5231.6	3777.0	1968.4	586.7
61°	7294.6	7003.2	6521.3	6305.3	6367.9	6629.9	6633.8	5433.5	3718.2	1774.1	504.9
62°	7653.7	7577.1	7070.9	6865.1	6845.9	7193.6	7024.9	5611.2	3667.1	1590.1	446.1
63°	8074.3	8074.3	7612.8	7451.8	7460.7	7735.5	7194.9	5788.9	3608.3	1386.8	392.4
64°	8292.8	8567.6	8142.0	7915.8	7974.6	8212.3	7497.8	5905.2	3426.8	1181.0	345.1
65°	8482.0	8894.9	8658.4	8553.6	8464.1	8604.7	7759.8	6013.8	3149.4	1004.6	306.8
66°	8641.8	9202.9	9124.9	9012.4	9003.5	8971.5	7811.0	6010.0	2863.1	848.7	268.4
67°	8561.3	9209.3	9351.2	9398.5	9384.4	9047.0	7721.5	5873.2	2496.3	717.1	239.0
67.5°	8488.4	9156.9	9486.7	9459.8	9518.6	9110.9	7736.8	5705.8	2235.5	649.3	225.0
68°	8424.5	9086.6	9541.6	9576.1	9546.7	9118.5	7652.5	5572.9	2057.9	609.7	212.2
69°	7940.1	8753.0	9453.4	9577.4	9502.0	8825.8	7384.0	5226.5	1634.8	520.2	195.6
70°	7454.3	8321.0	9025.2	9252.7	9159.4	8259.6	7045.3	4675.6	1348.5	444.8	176.4
71°	6782.0	7518.3	8455.2	8591.9	8479.4	7615.4	6344.9	4094.0	1049.4	377.1	157.2
72°	5869.4	6494.4	7389.2	7720.2	7554.0	6688.7	5636.8	3383.3	850.0	317.0	143.2
72.5°	5416.9	6057.3	6920.1	6946.9	6978.9	6286.1	5336.4	2971.8	741.3	294.0	139.3
73°	4987.5	5615.0	6361.5	6456.1	6320.6	5607.4	4887.8	2657.3	677.4	268.4	134.2
74°	4041.6	4399.5	5018.1	5110.2	4991.3	4572.1	3994.3	2037.4	539.4	231.4	122.7
75°	3180.1	3377.0	3936.8	3880.6	3702.9	3555.9	3097.0	1556.8	437.1	203.2	113.8



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1429.0	1547.9	1641.2	1641.2	1651.4	1576.0	1427.7	714.5	269.7	147.0	93.3
80°	544.5	609.7	630.1	631.4	640.4	663.4	617.4	351.5	159.8	104.8	75.4
82.5°	395.0	552.2	594.4	563.7	566.2	511.3	236.5	155.9	101.0	72.9	55.0
85°	357.9	480.6	508.7	504.9	506.2	472.9	139.3	76.7	58.8	46.0	38.3
87.5°	173.8	170.0	180.2	203.2	198.1	256.9	117.6	38.3	25.6	19.2	19.2
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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1082.6	1081.3	1099.2	1081.3	1091.6	1083.9
5°	1095.4	1100.5	1104.3	1112.0	1094.1	1112.0
7.5°	1133.7	1138.9	1140.1	1146.5	1138.9	1137.6
10°	1163.1	1175.9	1183.6	1158.0	1173.4	1172.1
12.5°	1220.7	1207.9	1206.6	1201.5	1187.4	1182.3
15°	1261.6	1242.4	1230.9	1210.4	1193.8	1187.4
17.5°	1319.1	1282.0	1234.7	1192.5	1163.1	1140.1
20°	1354.9	1288.4	1193.8	1144.0	1099.2	1109.5
22.5°	1377.9	1282.0	1156.8	1092.8	1048.1	1060.9
25°	1385.5	1250.1	1131.2	1051.9	1008.5	999.5
27.5°	1363.8	1213.0	1081.3	991.9	953.5	961.2
30°	1353.6	1159.3	1035.3	947.1	896.0	903.7
32.5°	1326.8	1104.3	974.0	884.5	847.4	834.7
35°	1288.4	1058.3	915.2	830.8	786.1	775.9
37.5°	1241.1	1000.8	864.0	761.8	722.2	714.5
40°	1170.8	931.8	789.9	701.7	655.7	654.4
42.5°	1109.5	865.3	720.9	630.1	584.1	586.7
45°	1031.5	775.9	641.6	563.7	517.7	520.2
47.5°	931.8	692.8	566.2	479.3	441.0	438.4
50°	814.2	598.2	474.2	400.1	368.1	361.7
52.5°	701.7	502.3	388.6	322.1	295.3	292.7
55°	559.8	391.1	302.9	253.1	232.6	233.9
56°	508.7	360.4	276.1	231.4	216.0	216.0
57°	460.1	319.5	250.5	213.5	199.4	199.4
58°	406.5	281.2	227.5	193.0	186.6	181.5
59°	369.4	255.6	205.8	182.8	172.6	171.3
60°	325.9	230.1	191.7	171.3	163.6	162.3
61°	288.9	207.1	176.4	159.8	157.2	157.2
62°	258.2	191.7	163.6	154.7	153.4	149.5
63°	231.4	176.4	157.2	147.0	143.2	147.0
64°	207.1	162.3	152.1	144.4	139.3	141.9
65°	187.9	155.9	145.7	140.6	135.5	136.8
66°	175.1	145.7	140.6	134.2	131.7	132.9
67°	158.5	140.6	135.5	129.1	127.8	129.1
67.5°	153.4	136.8	132.9	126.5	125.3	126.5
68°	149.5	134.2	131.7	125.3	124.0	122.7
69°	139.3	129.1	125.3	122.7	120.1	118.9
70°	130.4	124.0	121.4	117.6	115.0	113.8
71°	125.3	117.6	116.3	112.5	109.9	108.6
72°	118.9	113.8	111.2	106.1	104.8	106.1
72.5°	117.6	111.2	109.9	104.8	103.5	103.5
73°	113.8	106.1	107.4	102.3	99.7	102.3
74°	106.1	103.5	101.0	97.1	95.9	95.9
75°	99.7	97.1	94.6	92.0	92.0	92.0



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	84.4	83.1	84.4	79.2	78.0	76.7
80°	67.7	67.7	69.0	65.2	62.6	61.4
82.5°	51.1	52.4	55.0	51.1	48.6	46.0
85°	33.2	34.5	34.5	30.7	35.8	33.2
87.5°	16.6	17.9	16.6	15.3	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)