

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: P181707

Luminaire Tested: **ICS-E04-LED-E1-T4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181707
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E04-LED-E1-T4-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9182.6 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

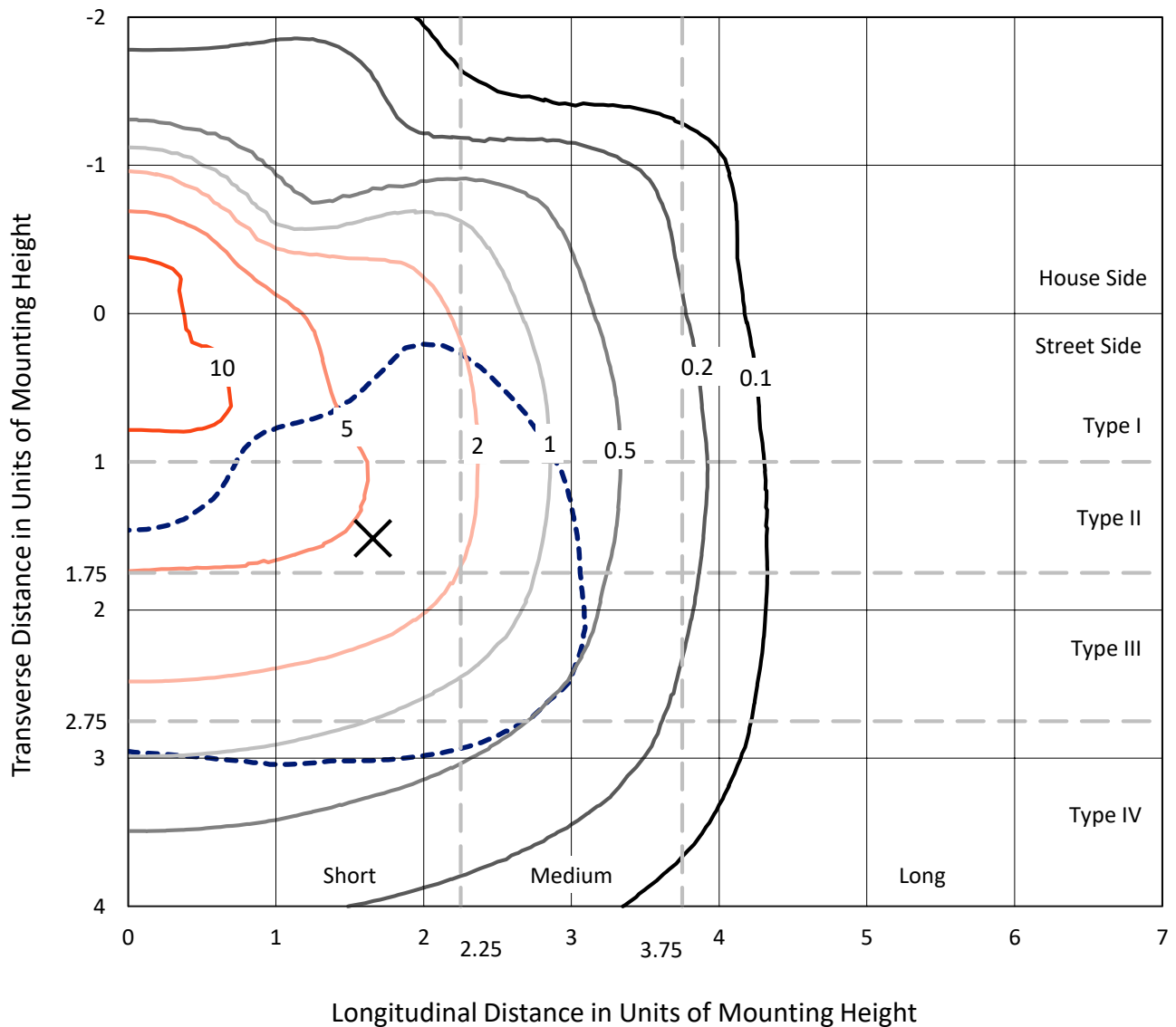
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

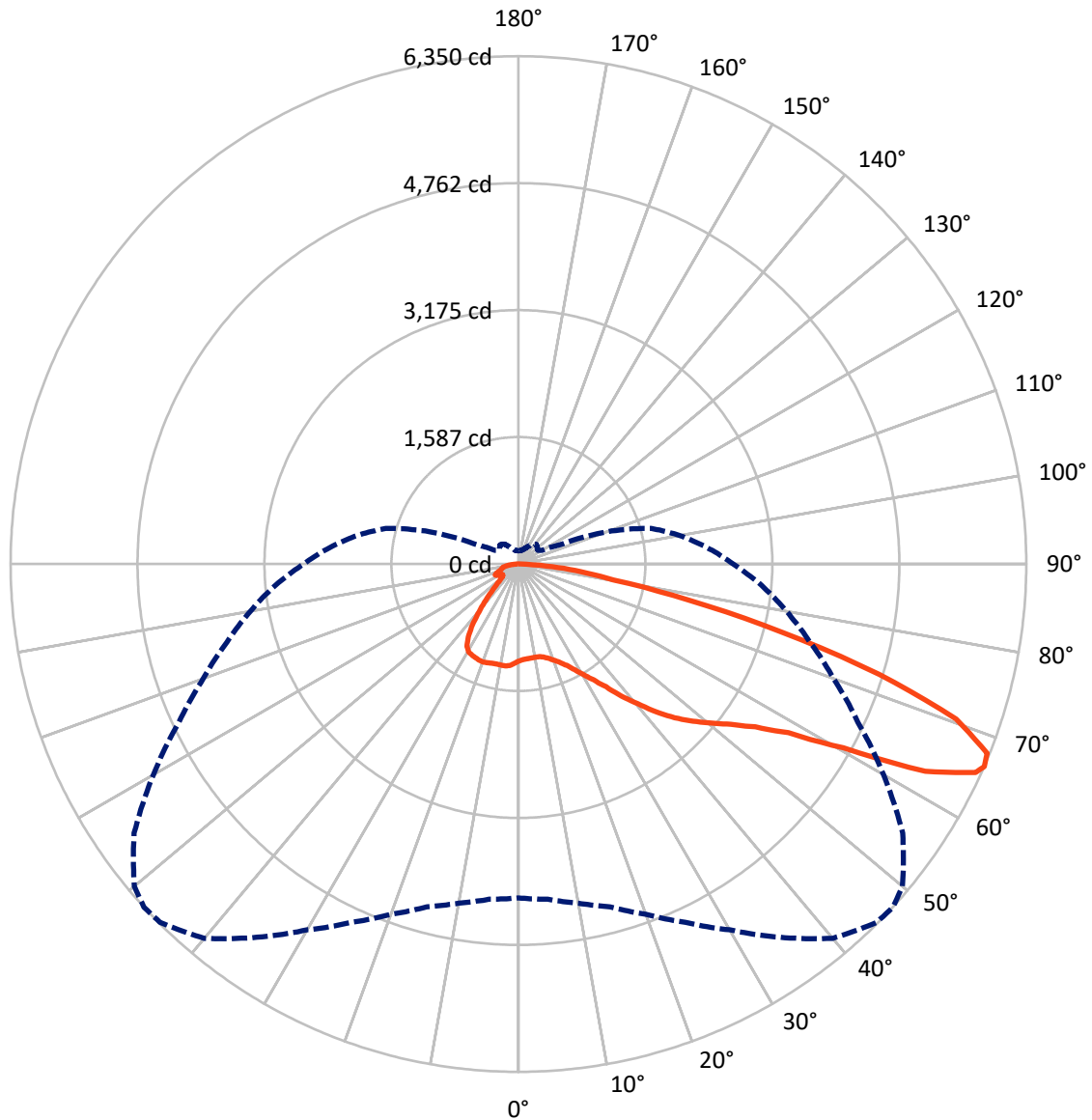
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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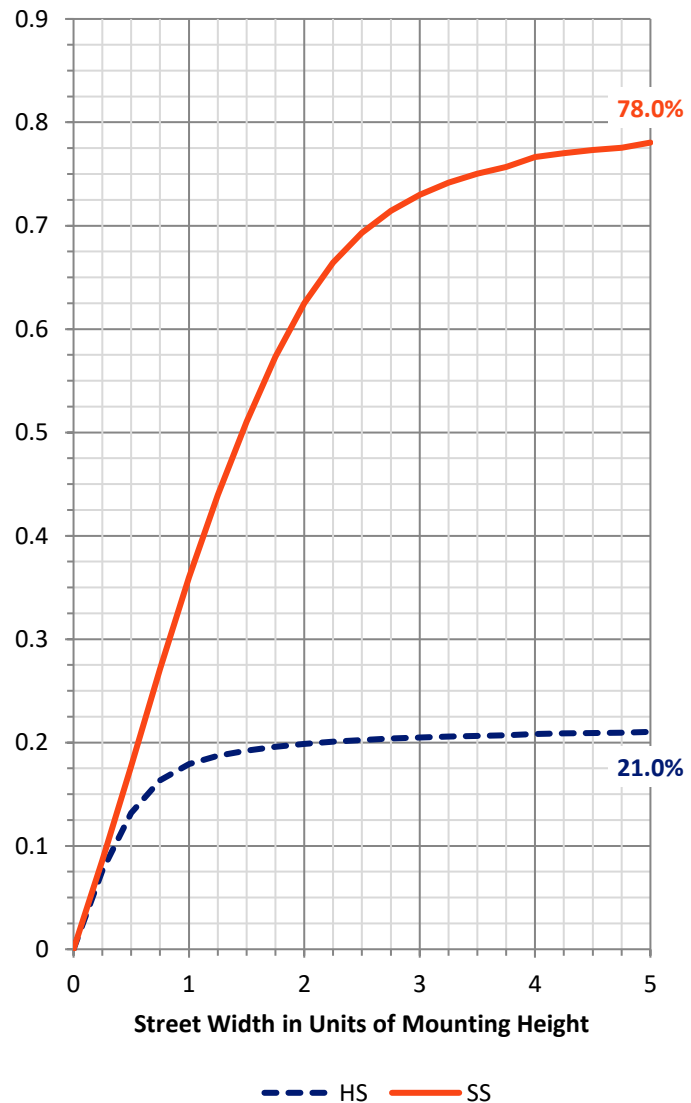
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1959.3	0.0	1959.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	7223.2	0.0	7223.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	9182.6	0.0	9182.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	1.3
10°-20°	356.8	3.9
20°-30°	614.6	6.7
30°-40°	929.9	10.1
40°-50°	1205.3	13.1
50°-60°	1661.7	18.1
60°-70°	2581.8	28.1
70°-80°	1501.3	16.3
80°-90°	213.5	2.3
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°	9182.6	100.0
0°-180°	9182.6	100.0



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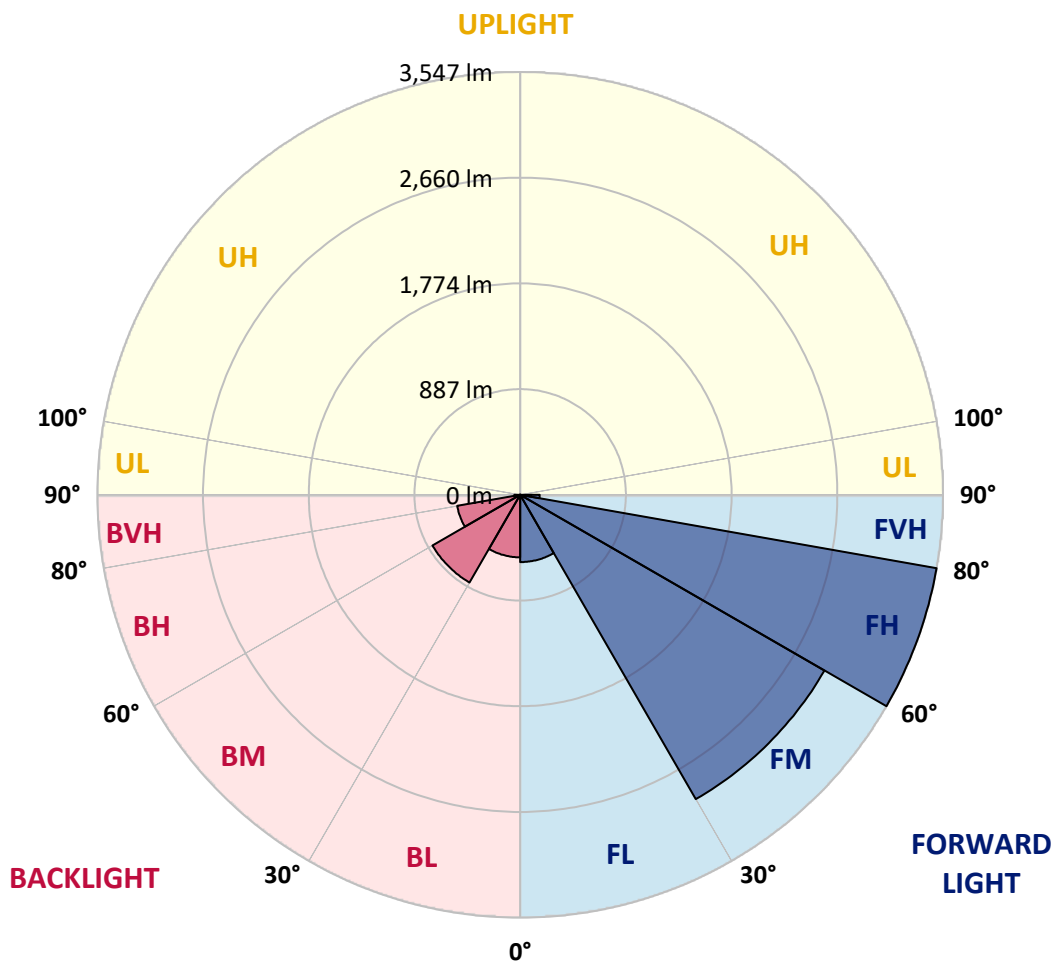
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	564.6	6.1			
FM	(30°-60°)	2947.6	32.1			
FH	(60°-80°)	3547.2	38.6			G2/5000
FVH	(80°-90°)	163.8	1.8			G2/225
BL	(0°-30°)	524.5	5.7	B2/1000		
BM	(30°-60°)	849.4	9.2	B1/1000		
BH	(60°-80°)	535.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	49.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°	
0°	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3
2.5°	1188.1	1192.1	1189.1	1190.1	1190.1	1191.1	1191.1	1192.1	1191.1	1194.1	1194.1	1196.2
5°	1166.8	1168.8	1167.8	1169.8	1171.9	1175.9	1174.9	1180.0	1181.0	1184.0	1184.0	1189.1
7.5°	1158.7	1156.7	1157.7	1160.7	1162.7	1164.8	1166.8	1170.8	1173.9	1181.0	1181.0	1185.0
10°	1166.8	1165.8	1166.8	1168.8	1168.8	1169.8	1167.8	1171.9	1173.9	1180.0	1180.0	1184.0
12.5°	1200.2	1200.2	1198.2	1198.2	1196.2	1194.1	1189.1	1186.0	1185.0	1186.0	1186.0	1188.1
15°	1253.9	1251.9	1247.8	1244.8	1240.7	1233.6	1226.6	1220.5	1216.4	1210.3	1210.3	1208.3
17.5°	1306.6	1303.5	1299.5	1295.4	1290.4	1283.3	1272.1	1265.0	1253.9	1246.8	1246.8	1242.8
20°	1367.3	1361.3	1356.2	1351.1	1341.0	1339.0	1327.8	1315.7	1302.5	1286.3	1286.3	1284.3
22.5°	1446.3	1436.2	1430.1	1427.1	1417.0	1413.9	1395.7	1378.5	1362.3	1341.0	1341.0	1335.9
25°	1526.4	1516.2	1513.2	1509.1	1502.0	1498.0	1480.8	1461.5	1440.3	1410.9	1410.9	1404.8
27.5°	1604.3	1605.4	1597.3	1600.3	1598.3	1591.2	1574.0	1554.7	1538.5	1504.1	1504.1	1497.0
30°	1701.6	1695.5	1691.4	1697.5	1690.4	1691.4	1676.3	1666.1	1639.8	1619.5	1619.5	1605.4
32.5°	1802.9	1801.8	1807.9	1812.0	1811.0	1808.9	1796.8	1786.7	1763.4	1734.0	1734.0	1727.9
35°	1941.6	1947.7	1952.8	1971.0	1971.0	1984.2	1972.0	1959.9	1932.5	1897.1	1897.1	1884.9
37.5°	2035.8	2037.8	2058.1	2082.4	2112.8	2141.2	2149.3	2152.3	2141.2	2114.8	2114.8	2096.6
40°	2121.9	2126.0	2158.4	2195.8	2240.4	2296.1	2329.5	2344.7	2347.8	2335.6	2335.6	2296.1
42.5°	2208.0	2214.1	2247.5	2302.2	2364.0	2434.9	2493.6	2531.1	2552.4	2552.4	2552.4	2529.1
45°	2308.3	2316.4	2352.8	2412.6	2484.5	2573.6	2654.7	2726.6	2761.0	2763.0	2763.0	2740.8
47.5°	2426.8	2433.9	2476.4	2537.2	2611.1	2701.3	2803.6	2885.6	2949.4	2953.5	2953.5	2935.2
50°	2579.7	2589.8	2625.3	2680.0	2755.9	2847.1	2949.4	3063.9	3130.7	3146.9	3146.9	3127.7
52.5°	2782.3	2784.3	2813.7	2864.3	2938.3	3025.4	3133.7	3258.3	3346.4	3359.6	3359.6	3328.2
55°	3061.8	3058.8	3078.0	3132.7	3188.4	3256.3	3368.7	3508.5	3606.7	3627.0	3627.0	3594.6
57.5°	3441.6	3438.6	3454.8	3468.0	3572.3	3638.1	3748.5	3882.2	3977.4	4036.2	4036.2	3980.5
60°	4030.1	4027.1	4053.4	4130.4	4208.4	4304.6	4411.9	4572.0	4705.7	4722.9	4722.9	4668.2
62.5°	4456.5	4471.7	4529.4	4619.6	4777.6	4966.0	5162.5	5373.1	5647.6	5734.7	5734.7	5708.4
65°	4307.6	4338.0	4418.0	4554.8	4765.4	5025.7	5333.6	5715.5	6083.1	6288.7	6288.7	6282.7
66°	4173.9	4207.4	4305.6	4437.3	4660.1	4944.7	5281.0	5697.2	6108.5	6335.3	6335.3	6349.5
67.5°	3930.8	3968.3	4064.5	4220.5	4437.3	4740.1	5101.7	5554.4	6019.3	6283.7	6283.7	6321.2
70°	3457.9	3500.4	3570.3	3698.9	3912.6	4183.0	4563.9	4969.0	5456.2	5759.0	5759.0	5804.6
72.5°	2890.7	2928.1	3006.1	3111.5	3286.7	3456.8	3755.6	4054.4	4402.8	4748.2	4748.2	4714.8
75°	2075.3	2091.5	2138.1	2252.6	2346.8	2499.7	2739.7	2984.9	3222.9	3380.9	3380.9	3403.2
77.5°	1078.7	1121.2	1187.1	1313.7	1416.0	1553.7	1709.7	1894.0	2068.2	2213.1	2213.1	2173.6
80°	706.0	724.2	782.9	847.8	922.7	1010.8	1115.1	1184.0	1206.3	1197.2	1197.2	1206.3
82.5°	407.2	440.6	518.6	568.2	623.9	654.3	737.4	816.4	860.9	805.2	805.2	785.0
85°	51.7	66.8	210.7	265.4	303.9	349.4	374.8	422.4	394.0	352.5	352.5	429.4
87.5°	11.1	10.1	14.2	30.4	31.4	26.3	49.6	52.7	32.4	16.2	16.2	20.3
90°	0.0	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3
2.5°	1198.2	1199.2	1201.2	1204.3	1206.3	1208.3	1210.3	1213.4	1215.4	1217.4	1221.5
5°	1193.1	1197.2	1201.2	1205.3	1210.3	1218.5	1223.5	1227.6	1231.6	1239.7	1242.8
7.5°	1190.1	1197.2	1203.3	1210.3	1218.5	1225.5	1234.7	1239.7	1245.8	1250.9	1256.9
10°	1188.1	1198.2	1204.3	1214.4	1223.5	1230.6	1240.7	1246.8	1253.9	1260.0	1263.0
12.5°	1192.1	1197.2	1203.3	1213.4	1224.5	1234.7	1245.8	1250.9	1256.9	1262.0	1263.0
15°	1209.3	1209.3	1210.3	1218.5	1229.6	1237.7	1246.8	1251.9	1254.9	1258.0	1258.0
17.5°	1240.7	1233.6	1228.6	1229.6	1236.7	1241.7	1246.8	1246.8	1244.8	1243.8	1241.7
20°	1277.2	1268.1	1258.0	1250.9	1248.8	1244.8	1241.7	1231.6	1223.5	1216.4	1211.4
22.5°	1329.9	1315.7	1301.5	1288.3	1276.2	1261.0	1243.8	1223.5	1204.3	1191.1	1183.0
25°	1394.7	1383.5	1366.3	1346.1	1330.9	1302.5	1280.2	1250.9	1226.6	1209.3	1195.2
27.5°	1486.9	1473.7	1457.5	1439.3	1417.0	1385.6	1358.2	1323.8	1294.4	1269.1	1250.9
30°	1601.3	1584.1	1571.9	1549.7	1534.5	1499.0	1471.7	1429.1	1372.4	1331.9	1306.6
32.5°	1718.8	1699.6	1689.4	1672.2	1655.0	1633.7	1592.2	1526.4	1453.4	1387.6	1344.0
35°	1875.8	1855.5	1837.3	1822.1	1796.8	1757.3	1720.8	1641.8	1541.5	1449.4	1376.5
37.5°	2073.3	2039.9	1994.3	1955.8	1911.2	1854.5	1798.8	1717.8	1603.3	1483.8	1386.6
40°	2284.0	2225.2	2160.4	2088.5	2011.5	1929.5	1865.7	1783.6	1655.0	1513.2	1379.5
42.5°	2503.8	2410.6	2320.4	2219.1	2111.8	2014.5	1931.5	1841.4	1693.5	1521.3	1351.1
45°	2721.5	2617.2	2480.5	2347.8	2212.1	2091.5	1998.3	1897.1	1728.9	1524.3	1313.7
47.5°	2901.8	2794.4	2638.5	2472.4	2311.3	2174.6	2065.2	1955.8	1776.5	1545.6	1304.5
50°	3092.2	2961.6	2788.4	2591.9	2409.6	2256.6	2140.1	2026.7	1843.4	1600.3	1333.9
52.5°	3299.8	3149.9	2947.4	2727.6	2528.1	2356.9	2230.3	2113.8	1928.5	1677.3	1389.6
55°	3553.1	3369.7	3149.9	2901.8	2688.1	2498.7	2358.9	2221.2	2029.7	1768.4	1459.5
57.5°	3940.0	3715.1	3468.0	3185.4	2948.4	2724.6	2557.4	2398.4	2186.7	1904.1	1554.7
60°	4639.8	4399.8	4078.7	3736.4	3457.9	3196.5	2951.4	2753.9	2493.6	2171.5	1765.4
62.5°	5642.6	5323.5	4895.1	4416.0	4051.4	3674.6	3398.1	3104.4	2781.3	2433.9	2013.5
65°	6199.6	5812.7	5239.4	4683.4	4214.4	3805.3	3453.8	3113.5	2754.9	2422.7	2071.3
66°	6268.5	5865.4	5269.8	4684.4	4192.2	3771.8	3402.1	3049.7	2683.0	2366.0	2047.0
67.5°	6240.1	5827.9	5214.1	4596.3	4095.9	3644.2	3262.4	2896.7	2531.1	2235.3	1965.9
70°	5775.2	5384.3	4781.6	4183.0	3708.0	3262.4	2897.7	2538.2	2202.9	1949.7	1751.2
72.5°	4795.8	4461.6	3937.9	3468.0	3095.3	2727.6	2418.7	2075.3	1791.7	1604.3	1486.9
75°	3461.9	3259.3	2782.3	2512.9	2185.7	1941.6	1641.8	1438.2	1234.7	1143.5	1123.2
77.5°	2186.7	1914.3	1611.4	1326.8	1090.8	904.5	703.9	597.6	498.3	488.2	589.5
80°	1107.0	996.6	767.7	611.8	514.5	416.3	329.2	249.2	174.2	209.7	251.2
82.5°	725.2	604.7	474.0	389.9	339.3	281.6	218.8	151.9	111.4	125.6	172.2
85°	392.0	334.2	269.4	212.7	172.2	154.0	103.3	72.9	71.9	77.0	98.2
87.5°	28.4	28.4	22.3	20.3	24.3	20.3	18.2	18.2	17.2	18.2	24.3
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3
2.5°	1223.5	1226.6	1227.6	1232.6	1235.7	1237.7	1239.7	1239.7	1240.7	1243.8	1244.8
5°	1246.8	1251.9	1258.0	1262.0	1264.0	1270.1	1272.1	1272.1	1274.2	1278.2	1281.2
7.5°	1261.0	1268.1	1274.2	1276.2	1280.2	1282.3	1285.3	1287.3	1287.3	1291.4	1293.4
10°	1266.1	1270.1	1276.2	1276.2	1280.2	1280.2	1283.3	1284.3	1284.3	1288.3	1291.4
12.5°	1266.1	1268.1	1273.1	1273.1	1276.2	1277.2	1281.2	1284.3	1285.3	1290.4	1294.4
15°	1260.0	1262.0	1266.1	1267.1	1274.2	1278.2	1287.3	1293.4	1293.4	1298.5	1300.5
17.5°	1242.8	1247.8	1255.9	1264.0	1277.2	1286.3	1297.5	1302.5	1298.5	1295.4	1292.4
20°	1214.4	1223.5	1242.8	1263.0	1286.3	1298.5	1304.5	1299.5	1285.3	1271.1	1262.0
22.5°	1186.0	1204.3	1236.7	1267.1	1293.4	1301.5	1298.5	1280.2	1256.9	1239.7	1227.6
25°	1199.2	1220.5	1251.9	1279.2	1296.4	1294.4	1282.3	1256.9	1231.6	1209.3	1189.1
27.5°	1253.9	1277.2	1294.4	1303.5	1301.5	1287.3	1268.1	1239.7	1209.3	1180.0	1151.6
30°	1305.6	1317.7	1321.8	1314.7	1298.5	1275.2	1250.9	1218.5	1177.9	1141.5	1109.1
32.5°	1328.9	1316.7	1297.5	1278.2	1251.9	1231.6	1198.2	1162.7	1112.1	1068.6	1036.1
35°	1328.9	1280.2	1231.6	1191.1	1151.6	1126.3	1087.8	1040.2	993.6	957.1	931.8
37.5°	1299.5	1206.3	1126.3	1060.4	1010.8	983.5	925.7	883.2	843.7	831.5	815.3
40°	1245.8	1108.1	992.6	906.5	843.7	803.2	745.5	716.1	700.9	694.8	691.8
42.5°	1173.9	998.7	844.7	738.4	670.5	624.9	586.4	568.2	567.2	566.2	566.2
45°	1096.9	881.2	700.9	574.3	514.5	474.0	455.8	448.7	454.8	453.8	454.8
47.5°	1049.3	792.0	569.2	434.5	388.9	362.6	353.5	356.5	361.6	359.6	359.6
50°	1043.2	746.5	481.1	338.3	303.9	290.7	288.7	288.7	291.7	289.7	288.7
52.5°	1065.5	739.4	435.5	290.7	263.3	252.2	250.2	249.2	248.1	242.1	237.0
55°	1104.0	755.6	422.4	278.5	250.2	238.0	235.0	233.0	228.9	220.8	211.7
57.5°	1181.0	806.2	434.5	284.6	254.2	244.1	241.1	241.1	233.0	219.8	206.6
60°	1366.3	934.9	484.1	307.9	273.5	263.3	265.4	264.4	252.2	233.0	212.7
62.5°	1605.4	1103.0	549.0	340.3	297.8	295.8	305.9	303.9	283.6	254.2	224.9
65°	1715.8	1182.0	567.2	347.4	302.8	312.0	332.2	330.2	304.9	264.4	226.9
66°	1717.8	1182.0	559.1	341.3	295.8	306.9	327.1	326.1	300.8	260.3	222.8
67.5°	1676.3	1149.6	535.8	329.2	281.6	289.7	307.9	306.9	283.6	250.2	214.7
70°	1520.3	1029.0	476.0	307.9	262.3	258.3	264.4	260.3	245.1	221.8	197.5
72.5°	1302.5	864.0	415.3	291.7	249.2	233.0	228.9	225.9	213.7	200.5	185.4
75°	1026.0	683.7	364.6	279.5	237.0	215.7	208.6	204.6	196.5	187.4	175.2
77.5°	633.0	489.2	318.0	263.3	227.9	206.6	201.6	195.5	183.3	172.2	163.1
80°	282.6	302.8	261.3	229.9	203.6	184.3	176.2	167.1	155.0	147.9	142.8
82.5°	188.4	195.5	189.4	172.2	154.0	138.8	126.6	126.6	124.6	118.5	116.5
85°	120.5	121.5	117.5	106.3	99.3	90.1	85.1	86.1	90.1	89.1	88.1
87.5°	27.3	27.3	32.4	30.4	35.4	37.5	40.5	43.6	49.6	49.6	52.7
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):

	160°	165°	170°	175°	180°
0°	1210.3	1210.3	1210.3	1210.3	1210.3
2.5°	1245.8	1247.8	1249.8	1246.8	1247.8
5°	1281.2	1280.2	1285.3	1282.3	1284.3
7.5°	1292.4	1293.4	1297.5	1297.5	1298.5
10°	1293.4	1295.4	1300.5	1303.5	1305.6
12.5°	1298.5	1302.5	1310.6	1312.6	1312.6
15°	1302.5	1304.5	1309.6	1311.6	1313.7
17.5°	1288.3	1284.3	1286.3	1287.3	1286.3
20°	1252.9	1248.8	1247.8	1243.8	1245.8
22.5°	1214.4	1203.3	1196.2	1188.1	1188.1
25°	1167.8	1150.6	1136.4	1122.2	1125.3
27.5°	1124.3	1102.0	1087.8	1078.7	1076.7
30°	1081.7	1058.4	1045.3	1034.1	1034.1
32.5°	1010.8	994.6	977.4	970.3	969.3
35°	912.6	902.4	888.3	885.2	880.2
37.5°	802.2	799.1	787.0	786.0	780.9
40°	686.7	688.7	684.7	682.7	679.6
42.5°	571.2	581.4	579.3	578.3	576.3
45°	460.8	467.9	468.9	472.0	477.0
47.5°	362.6	364.6	366.6	365.6	366.6
50°	283.6	278.5	277.5	274.5	277.5
52.5°	228.9	220.8	216.7	212.7	210.7
55°	201.6	193.5	189.4	187.4	185.4
57.5°	194.5	186.4	180.3	176.2	175.2
60°	196.5	184.3	176.2	171.2	170.2
62.5°	201.6	185.4	174.2	169.1	168.1
65°	200.5	183.3	173.2	167.1	166.1
66°	197.5	181.3	171.2	166.1	165.1
67.5°	192.4	178.3	169.1	165.1	163.1
70°	183.3	174.2	167.1	162.1	160.0
72.5°	175.2	168.1	162.1	157.0	156.0
75°	166.1	160.0	154.0	149.9	148.9
77.5°	155.0	148.9	144.8	141.8	140.8
80°	136.7	132.7	128.6	124.6	124.6
82.5°	113.4	110.4	106.3	103.3	102.3
85°	87.1	87.1	84.1	81.0	80.0
87.5°	51.7	50.6	50.6	47.6	47.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)