

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: P181714

Luminaire Tested: **ICS-F04-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181714
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-F04-LED-E1-T4
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8981.7 lumens
Efficiency: N/A
Efficacy: 87.9 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

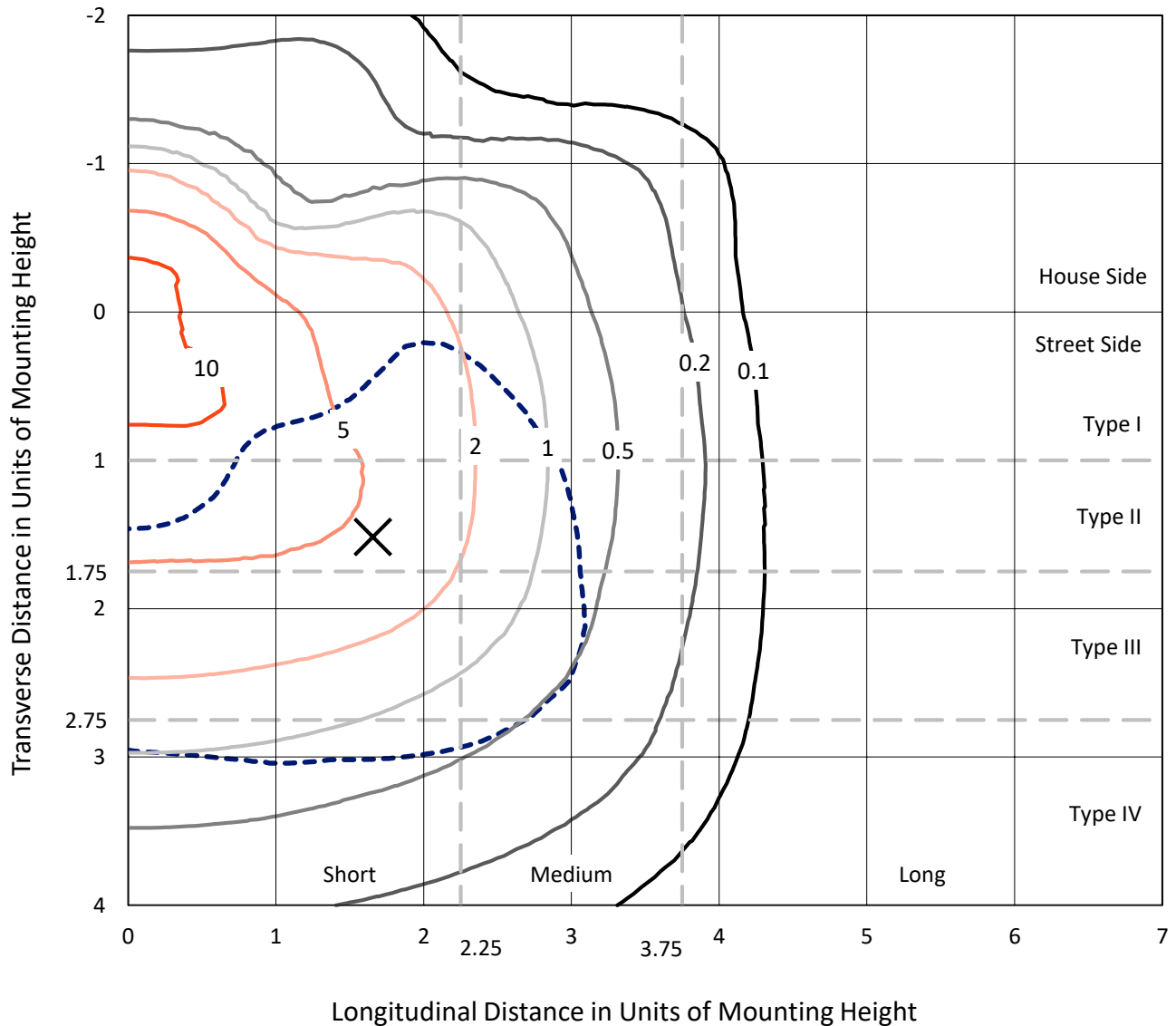
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

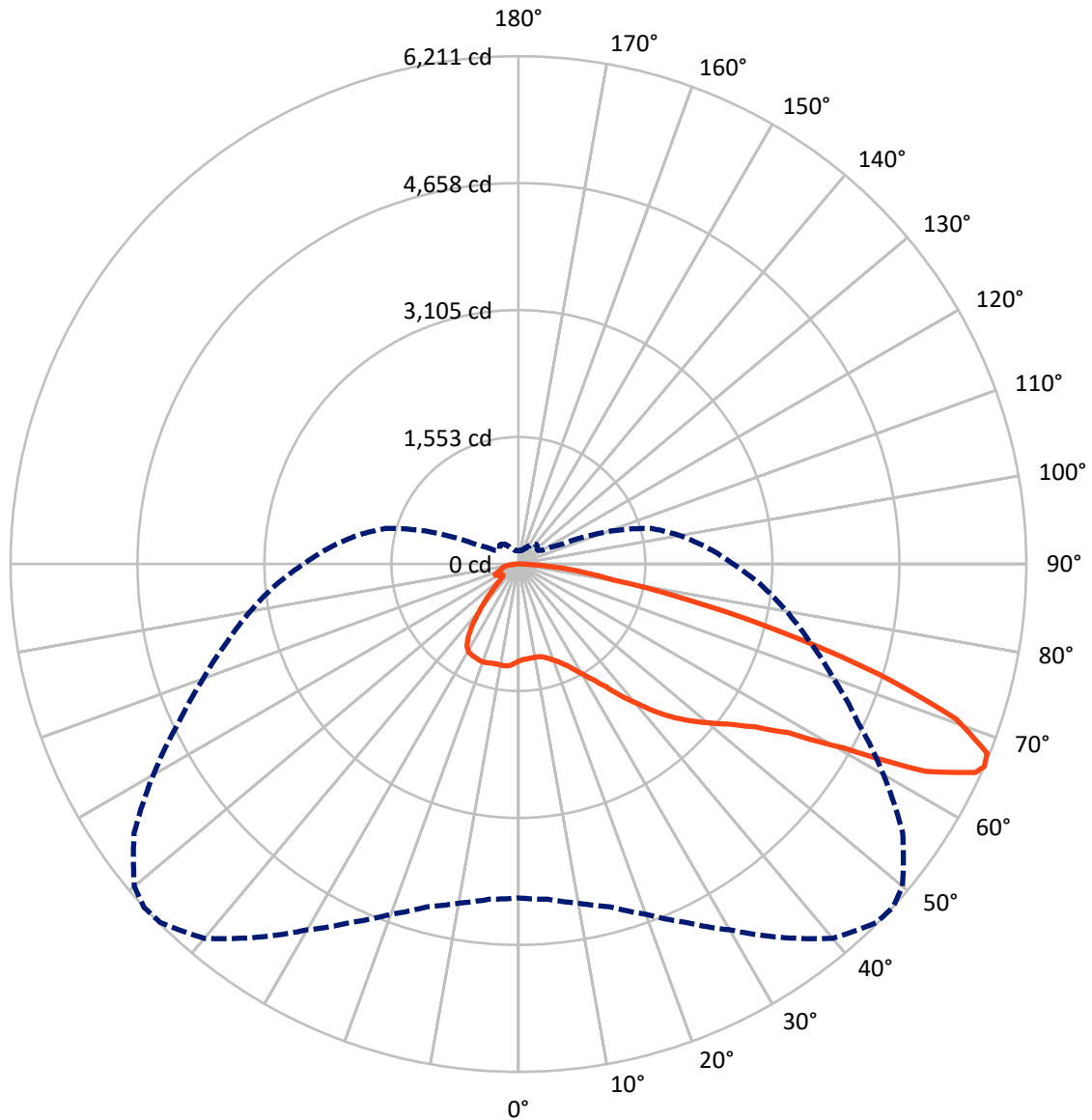
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 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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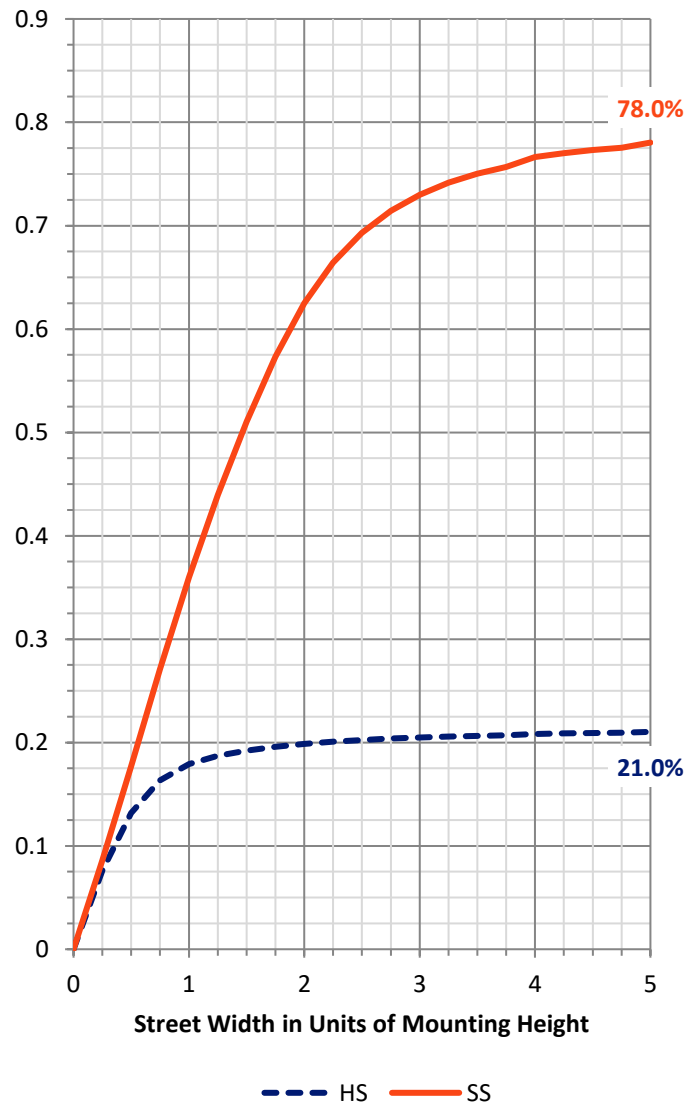
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1916.5	0.0	1916.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	7065.2	0.0	7065.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	8981.7	0.0	8981.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	1.3
10°-20°	349.0	3.9
20°-30°	601.2	6.7
30°-40°	909.6	10.1
40°-50°	1178.9	13.1
50°-60°	1625.4	18.1
60°-70°	2525.3	28.1
70°-80°	1468.5	16.3
80°-90°	208.8	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°	8981.7	100.0
0°-180°	8981.7	100.0



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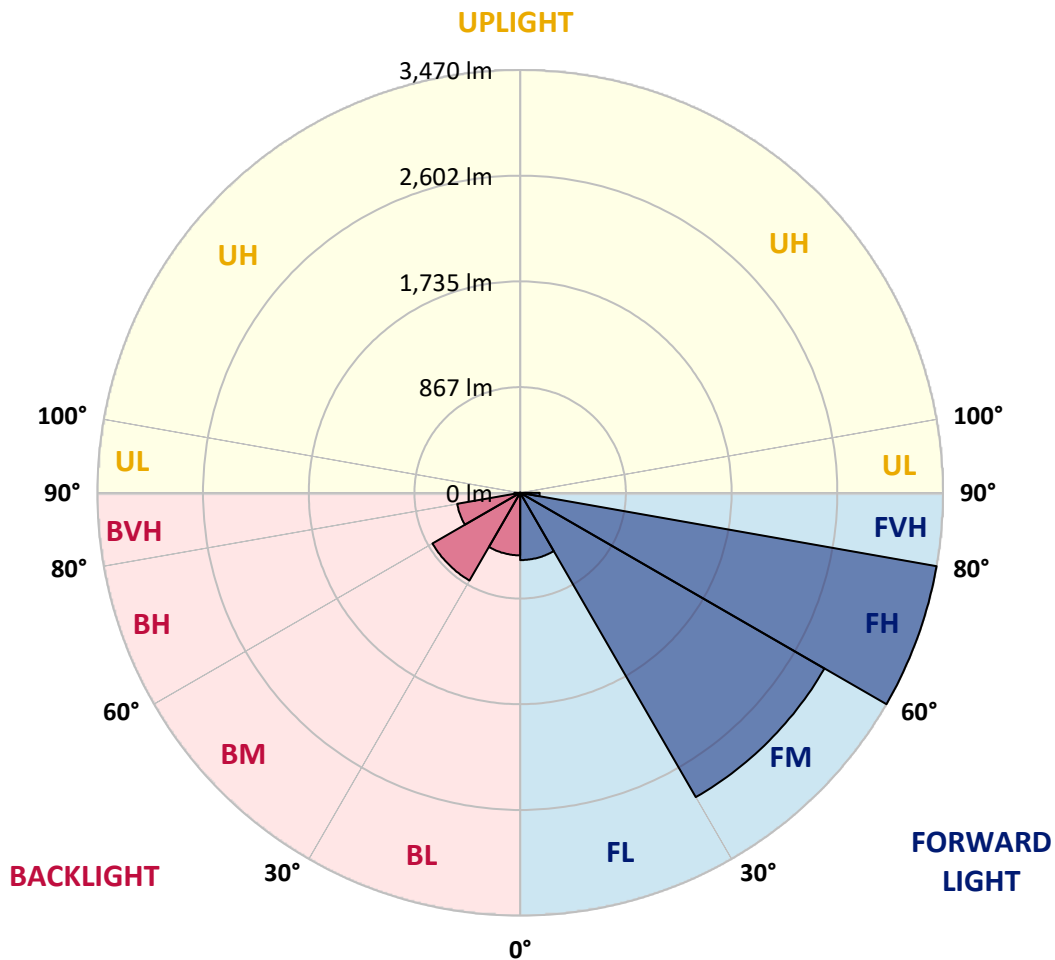
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	552.2	6.1			
FM	(30°-60°)	2883.1	32.1			
FH	(60°-80°)	3469.6	38.6			G2/5000
FVH	(80°-90°)	160.3	1.8			G2/225
BL	(0°-30°)	513.0	5.7	B2/1000		
BM	(30°-60°)	830.8	9.2	B1/1000		
BH	(60°-80°)	524.2	5.8	B2/1000		G2/1000
BVH	(80°-90°)	48.6	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°	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9
2.5°	1162.1	1166.0	1163.1	1164.1	1164.1	1165.0	1165.0	1166.0	1165.0	1168.0	1170.0
5°	1141.3	1143.2	1142.3	1144.2	1146.2	1150.2	1149.2	1154.1	1155.1	1158.1	1163.1
7.5°	1133.3	1131.4	1132.4	1135.3	1137.3	1139.3	1141.3	1145.2	1148.2	1155.1	1159.1
10°	1141.3	1140.3	1141.3	1143.2	1143.2	1144.2	1142.3	1146.2	1148.2	1154.1	1158.1
12.5°	1174.0	1174.0	1172.0	1172.0	1170.0	1168.0	1163.1	1160.1	1159.1	1160.1	1162.1
15°	1226.5	1224.5	1220.5	1217.6	1213.6	1206.7	1199.7	1193.8	1189.8	1183.9	1181.9
17.5°	1278.0	1275.0	1271.0	1267.1	1262.1	1255.2	1244.3	1237.4	1226.5	1219.5	1215.6
20°	1337.4	1331.5	1326.5	1321.6	1311.7	1309.7	1298.8	1286.9	1274.0	1258.2	1256.2
22.5°	1414.7	1404.8	1398.8	1395.9	1386.0	1383.0	1365.2	1348.3	1332.5	1311.7	1306.7
25°	1493.0	1483.1	1480.1	1476.1	1469.2	1465.2	1448.4	1429.6	1408.8	1380.0	1374.1
27.5°	1569.2	1570.2	1562.3	1565.3	1563.3	1556.4	1539.5	1520.7	1504.8	1471.2	1464.2
30°	1664.3	1658.4	1654.4	1660.4	1653.5	1654.4	1639.6	1629.7	1603.9	1584.1	1570.2
32.5°	1763.4	1762.4	1768.4	1772.3	1771.3	1769.4	1757.5	1747.6	1724.8	1696.1	1690.1
35°	1899.1	1905.1	1910.0	1927.9	1927.9	1940.7	1928.9	1917.0	1890.2	1855.6	1843.7
37.5°	1991.3	1993.3	2013.1	2036.8	2066.6	2094.3	2102.2	2105.2	2094.3	2068.5	2050.7
40°	2075.5	2079.4	2111.1	2147.8	2191.4	2245.9	2278.6	2293.4	2296.4	2284.5	2245.9
42.5°	2159.7	2165.6	2198.3	2251.8	2312.3	2381.6	2439.1	2475.7	2496.5	2496.5	2473.7
45°	2257.8	2265.7	2301.4	2359.8	2430.1	2517.3	2596.6	2666.9	2700.6	2702.6	2680.8
47.5°	2373.7	2380.6	2422.2	2481.7	2554.0	2642.2	2742.2	2822.5	2884.9	2888.8	2871.0
50°	2523.3	2533.2	2567.9	2621.3	2695.7	2784.8	2884.9	2996.8	3062.2	3078.1	3059.2
52.5°	2721.4	2723.4	2752.1	2801.7	2874.0	2959.2	3065.2	3187.0	3273.2	3286.1	3255.4
55°	2994.8	2991.9	3010.7	3064.2	3118.7	3185.0	3295.0	3431.7	3527.8	3547.6	3515.9
57.5°	3366.3	3363.4	3379.2	3392.1	3494.1	3558.5	3666.5	3797.3	3890.4	3947.9	3893.4
60°	3941.9	3939.0	3964.7	4040.0	4116.3	4210.4	4315.4	4471.9	4602.7	4619.6	4566.1
62.5°	4359.0	4373.9	4430.3	4518.5	4673.1	4857.3	5049.5	5255.6	5524.1	5609.3	5583.5
65°	4213.4	4243.1	4321.4	4455.1	4661.2	4915.8	5216.9	5590.4	5950.0	6151.2	6145.2
66°	4082.6	4115.3	4211.4	4340.2	4558.1	4836.5	5165.4	5572.6	5974.8	6196.7	6210.6
67.5°	3844.8	3881.5	3975.6	4128.2	4340.2	4636.4	4990.1	5432.9	5887.6	6146.2	6182.9
70°	3382.2	3423.8	3492.2	3618.0	3827.0	4091.5	4464.0	4860.3	5336.8	5633.0	5677.6
72.5°	2827.4	2864.1	2940.3	3043.4	3214.8	3381.2	3673.5	3965.7	4306.5	4644.3	4611.6
75°	2029.9	2045.8	2091.3	2203.3	2295.4	2445.0	2679.8	2919.5	3152.4	3306.9	3328.7
77.5°	1055.1	1096.7	1161.1	1284.9	1385.0	1519.7	1672.3	1852.6	2023.0	2164.6	2126.0
80°	690.5	708.3	765.8	829.2	902.5	988.7	1090.7	1158.1	1179.9	1171.0	1179.9
82.5°	398.3	430.9	507.2	555.8	610.3	640.0	721.2	798.5	842.1	787.6	767.8
85°	50.5	65.4	206.1	259.6	297.2	341.8	366.6	413.1	385.4	344.8	420.0
87.5°	10.9	9.9	13.9	29.7	30.7	25.8	48.5	51.5	31.7	15.9	19.8
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9
2.5°	1172.0	1173.0	1175.0	1177.9	1179.9	1181.9	1183.9	1186.8	1188.8	1190.8	1194.8
5°	1167.0	1171.0	1175.0	1178.9	1183.9	1191.8	1196.7	1200.7	1204.7	1212.6	1215.6
7.5°	1164.1	1171.0	1176.9	1183.9	1191.8	1198.7	1207.6	1212.6	1218.5	1223.5	1229.4
10°	1162.1	1172.0	1177.9	1187.8	1196.7	1203.7	1213.6	1219.5	1226.5	1232.4	1235.4
12.5°	1166.0	1171.0	1176.9	1186.8	1197.7	1207.6	1218.5	1223.5	1229.4	1234.4	1235.4
15°	1182.9	1182.9	1183.9	1191.8	1202.7	1210.6	1219.5	1224.5	1227.5	1230.4	1230.4
17.5°	1213.6	1206.7	1201.7	1202.7	1209.6	1214.6	1219.5	1219.5	1217.6	1216.6	1214.6
20°	1249.3	1240.3	1230.4	1223.5	1221.5	1217.6	1214.6	1204.7	1196.7	1189.8	1184.9
22.5°	1300.8	1286.9	1273.0	1260.1	1248.3	1233.4	1216.6	1196.7	1177.9	1165.0	1157.1
25°	1364.2	1353.3	1336.4	1316.6	1301.8	1274.0	1252.2	1223.5	1199.7	1182.9	1169.0
27.5°	1454.3	1441.4	1425.6	1407.8	1386.0	1355.3	1328.5	1294.8	1266.1	1241.3	1223.5
30°	1566.3	1549.4	1537.5	1515.7	1500.9	1466.2	1439.5	1397.9	1342.4	1302.7	1278.0
32.5°	1681.2	1662.4	1652.5	1635.6	1618.8	1598.0	1557.4	1493.0	1421.6	1357.2	1314.6
35°	1834.7	1814.9	1797.1	1782.2	1757.5	1718.8	1683.2	1605.9	1507.8	1417.7	1346.3
37.5°	2027.9	1995.2	1950.7	1913.0	1869.4	1813.9	1759.5	1680.2	1568.3	1451.4	1356.2
40°	2234.0	2176.5	2113.1	2042.8	1967.5	1887.3	1824.8	1744.6	1618.8	1480.1	1349.3
42.5°	2449.0	2357.8	2269.7	2170.6	2065.6	1970.5	1889.2	1801.1	1656.4	1488.0	1321.6
45°	2662.0	2559.9	2426.2	2296.4	2163.7	2045.8	1954.6	1855.6	1691.1	1491.0	1284.9
47.5°	2838.3	2733.3	2580.7	2418.3	2260.7	2127.0	2020.0	1913.0	1737.7	1511.8	1276.0
50°	3024.6	2896.8	2727.4	2535.2	2356.8	2207.2	2093.3	1982.4	1803.0	1565.3	1304.7
52.5°	3227.6	3081.0	2882.9	2667.9	2472.7	2305.3	2181.5	2067.6	1886.3	1640.6	1359.2
55°	3475.3	3296.0	3081.0	2838.3	2629.3	2444.0	2307.3	2172.6	1985.3	1729.7	1427.6
57.5°	3853.8	3633.8	3392.1	3115.7	2883.9	2664.9	2501.5	2345.9	2138.9	1862.5	1520.7
60°	4538.3	4303.5	3989.5	3654.6	3382.2	3126.6	2886.9	2693.7	2439.1	2124.0	1726.8
62.5°	5519.1	5207.0	4788.0	4319.4	3962.7	3594.2	3323.7	3036.4	2720.4	2380.6	1969.5
65°	6064.0	5685.5	5124.8	4580.9	4122.2	3722.0	3378.2	3045.4	2694.7	2369.7	2025.9
66°	6131.3	5737.0	5154.5	4581.9	4100.4	3689.3	3327.7	2982.9	2624.3	2314.2	2002.2
67.5°	6103.6	5700.4	5100.0	4495.7	4006.3	3564.5	3191.0	2833.4	2475.7	2186.4	1922.9
70°	5648.9	5266.5	4677.0	4091.5	3626.9	3191.0	2834.3	2482.7	2154.7	1907.1	1712.9
72.5°	4690.9	4364.0	3851.8	3392.1	3027.5	2667.9	2365.8	2029.9	1752.5	1569.2	1454.3
75°	3386.2	3188.0	2721.4	2457.9	2137.9	1899.1	1605.9	1406.8	1207.6	1118.5	1098.7
77.5°	2138.9	1872.4	1576.2	1297.8	1067.0	884.7	688.5	584.5	487.4	477.5	576.6
80°	1082.8	974.8	750.9	598.4	503.3	407.2	322.0	243.7	170.4	205.1	245.7
82.5°	709.3	591.4	463.6	381.4	331.9	275.4	214.0	148.6	109.0	122.8	168.4
85°	383.4	326.9	263.5	208.0	168.4	150.6	101.0	71.3	70.3	75.3	96.1
87.5°	27.7	27.7	21.8	19.8	23.8	19.8	17.8	17.8	16.8	17.8	23.8
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°	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9	1183.9
2.5°	1196.7	1199.7	1200.7	1205.7	1208.6	1210.6	1212.6	1212.6	1213.6	1216.6	1217.6
5°	1219.5	1224.5	1230.4	1234.4	1236.4	1242.3	1244.3	1244.3	1246.3	1250.2	1253.2
7.5°	1233.4	1240.3	1246.3	1248.3	1252.2	1254.2	1257.2	1259.2	1259.2	1263.1	1265.1
10°	1238.4	1242.3	1248.3	1248.3	1252.2	1252.2	1255.2	1256.2	1256.2	1260.1	1263.1
12.5°	1238.4	1240.3	1245.3	1245.3	1248.3	1249.3	1253.2	1256.2	1257.2	1262.1	1266.1
15°	1232.4	1234.4	1238.4	1239.3	1246.3	1250.2	1259.2	1265.1	1265.1	1270.1	1272.0
17.5°	1215.6	1220.5	1228.4	1236.4	1249.3	1258.2	1269.1	1274.0	1270.1	1267.1	1264.1
20°	1187.8	1196.7	1215.6	1235.4	1258.2	1270.1	1276.0	1271.0	1257.2	1243.3	1234.4
22.5°	1160.1	1177.9	1209.6	1239.3	1265.1	1273.0	1270.1	1252.2	1229.4	1212.6	1200.7
25°	1173.0	1193.8	1224.5	1251.2	1268.1	1266.1	1254.2	1229.4	1204.7	1182.9	1163.1
27.5°	1226.5	1249.3	1266.1	1275.0	1273.0	1259.2	1240.3	1212.6	1182.9	1154.1	1126.4
30°	1277.0	1288.9	1292.8	1285.9	1270.1	1247.3	1223.5	1191.8	1152.2	1116.5	1084.8
32.5°	1299.8	1287.9	1269.1	1250.2	1224.5	1204.7	1172.0	1137.3	1087.8	1045.2	1013.5
35°	1299.8	1252.2	1204.7	1165.0	1126.4	1101.6	1064.0	1017.4	971.9	936.2	911.4
37.5°	1271.0	1179.9	1101.6	1037.2	988.7	962.0	905.5	863.9	825.2	813.4	797.5
40°	1218.5	1083.8	970.9	886.7	825.2	785.6	729.1	700.4	685.6	679.6	676.6
42.5°	1148.2	976.8	826.2	722.2	655.8	611.3	573.6	555.8	554.8	553.8	553.8
45°	1072.9	861.9	685.6	561.7	503.3	463.6	445.8	438.9	444.8	443.8	444.8
47.5°	1026.3	774.7	556.8	425.0	380.4	354.7	345.7	348.7	353.7	351.7	351.7
50°	1020.4	730.1	470.6	330.9	297.2	284.3	282.3	282.3	285.3	283.3	282.3
52.5°	1042.2	723.2	426.0	284.3	257.6	246.7	244.7	243.7	242.7	236.8	231.8
55°	1079.8	739.1	413.1	272.4	244.7	232.8	229.8	227.9	223.9	216.0	207.1
57.5°	1155.1	788.6	425.0	278.4	248.7	238.8	235.8	235.8	227.9	215.0	202.1
60°	1336.4	914.4	473.5	301.2	267.5	257.6	259.6	258.6	246.7	227.9	208.0
62.5°	1570.2	1078.9	537.0	332.9	291.3	289.3	299.2	297.2	277.4	248.7	219.9
65°	1678.2	1156.1	554.8	339.8	296.2	305.1	324.9	323.0	298.2	258.6	221.9
66°	1680.2	1156.1	546.9	333.9	289.3	300.2	320.0	319.0	294.2	254.6	218.0
67.5°	1639.6	1124.4	524.1	322.0	275.4	283.3	301.2	300.2	277.4	244.7	210.0
70°	1487.0	1006.5	465.6	301.2	256.6	252.6	258.6	254.6	239.7	217.0	193.2
72.5°	1274.0	845.1	406.2	285.3	243.7	227.9	223.9	220.9	209.0	196.2	181.3
75°	1003.6	668.7	356.6	273.4	231.8	211.0	204.1	200.1	192.2	183.3	171.4
77.5°	619.2	478.5	311.1	257.6	222.9	202.1	197.1	191.2	179.3	168.4	159.5
80°	276.4	296.2	255.6	224.9	199.1	180.3	172.4	163.5	151.6	144.6	139.7
82.5°	184.3	191.2	185.3	168.4	150.6	135.7	123.8	123.8	121.9	115.9	113.9
85°	117.9	118.9	114.9	104.0	97.1	88.2	83.2	84.2	88.2	87.2	86.2
87.5°	26.7	26.7	31.7	29.7	34.7	36.7	39.6	42.6	48.5	48.5	51.5
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):

	160°	165°	170°	175°	180°
0°	1183.9	1183.9	1183.9	1183.9	1183.9
2.5°	1218.5	1220.5	1222.5	1219.5	1220.5
5°	1253.2	1252.2	1257.2	1254.2	1256.2
7.5°	1264.1	1265.1	1269.1	1269.1	1270.1
10°	1265.1	1267.1	1272.0	1275.0	1277.0
12.5°	1270.1	1274.0	1281.9	1283.9	1283.9
15°	1274.0	1276.0	1281.0	1282.9	1284.9
17.5°	1260.1	1256.2	1258.2	1259.2	1258.2
20°	1225.5	1221.5	1220.5	1216.6	1218.5
22.5°	1187.8	1176.9	1170.0	1162.1	1162.1
25°	1142.3	1125.4	1111.5	1097.7	1100.6
27.5°	1099.7	1077.9	1064.0	1055.1	1053.1
30°	1058.1	1035.3	1022.4	1011.5	1011.5
32.5°	988.7	972.9	956.0	949.1	948.1
35°	892.6	882.7	868.8	865.9	860.9
37.5°	784.6	781.6	769.8	768.8	763.8
40°	671.7	673.7	669.7	667.7	664.7
42.5°	558.7	568.7	566.7	565.7	563.7
45°	450.8	457.7	458.7	461.7	466.6
47.5°	354.7	356.6	358.6	357.6	358.6
50°	277.4	272.4	271.4	268.5	271.4
52.5°	223.9	216.0	212.0	208.0	206.1
55°	197.1	189.2	185.3	183.3	181.3
57.5°	190.2	182.3	176.3	172.4	171.4
60°	192.2	180.3	172.4	167.4	166.4
62.5°	197.1	181.3	170.4	165.4	164.5
65°	196.2	179.3	169.4	163.5	162.5
66°	193.2	177.3	167.4	162.5	161.5
67.5°	188.2	174.4	165.4	161.5	159.5
70°	179.3	170.4	163.5	158.5	156.5
72.5°	171.4	164.5	158.5	153.6	152.6
75°	162.5	156.5	150.6	146.6	145.6
77.5°	151.6	145.6	141.7	138.7	137.7
80°	133.7	129.8	125.8	121.9	121.9
82.5°	111.0	108.0	104.0	101.0	100.1
85°	85.2	85.2	82.2	79.3	78.3
87.5°	50.5	49.5	49.5	46.6	46.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)