

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: P181653

Luminaire Tested: **ICM-F04-LED-E1-T4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181653
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: ICM-F04-LED-E1-T4-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8478.6 lumens
Efficiency: N/A
Efficacy: 83.0 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: B1 - U0 - G2

Input Watts (W): 102.2
Input Voltage (V): NR
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

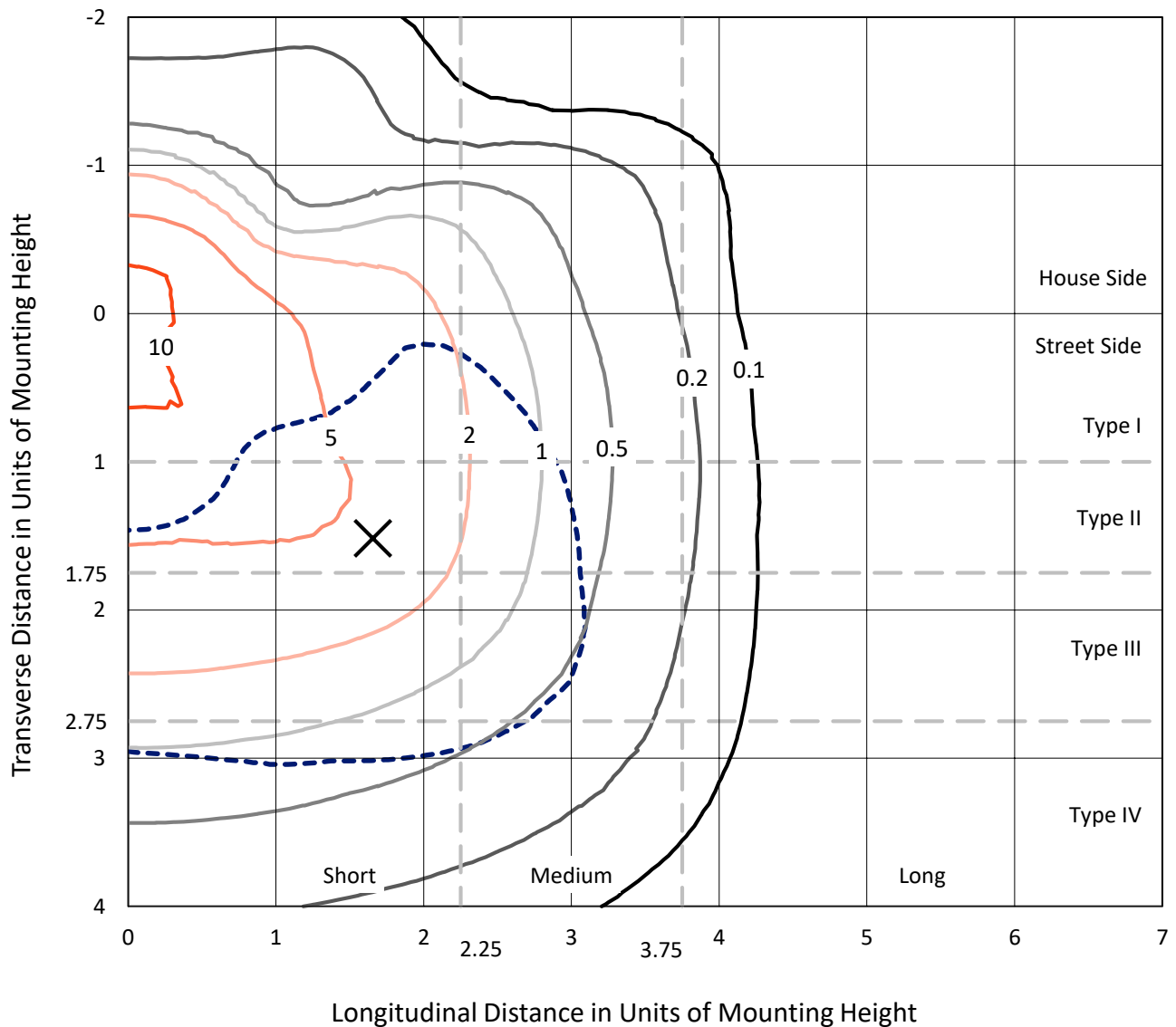


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

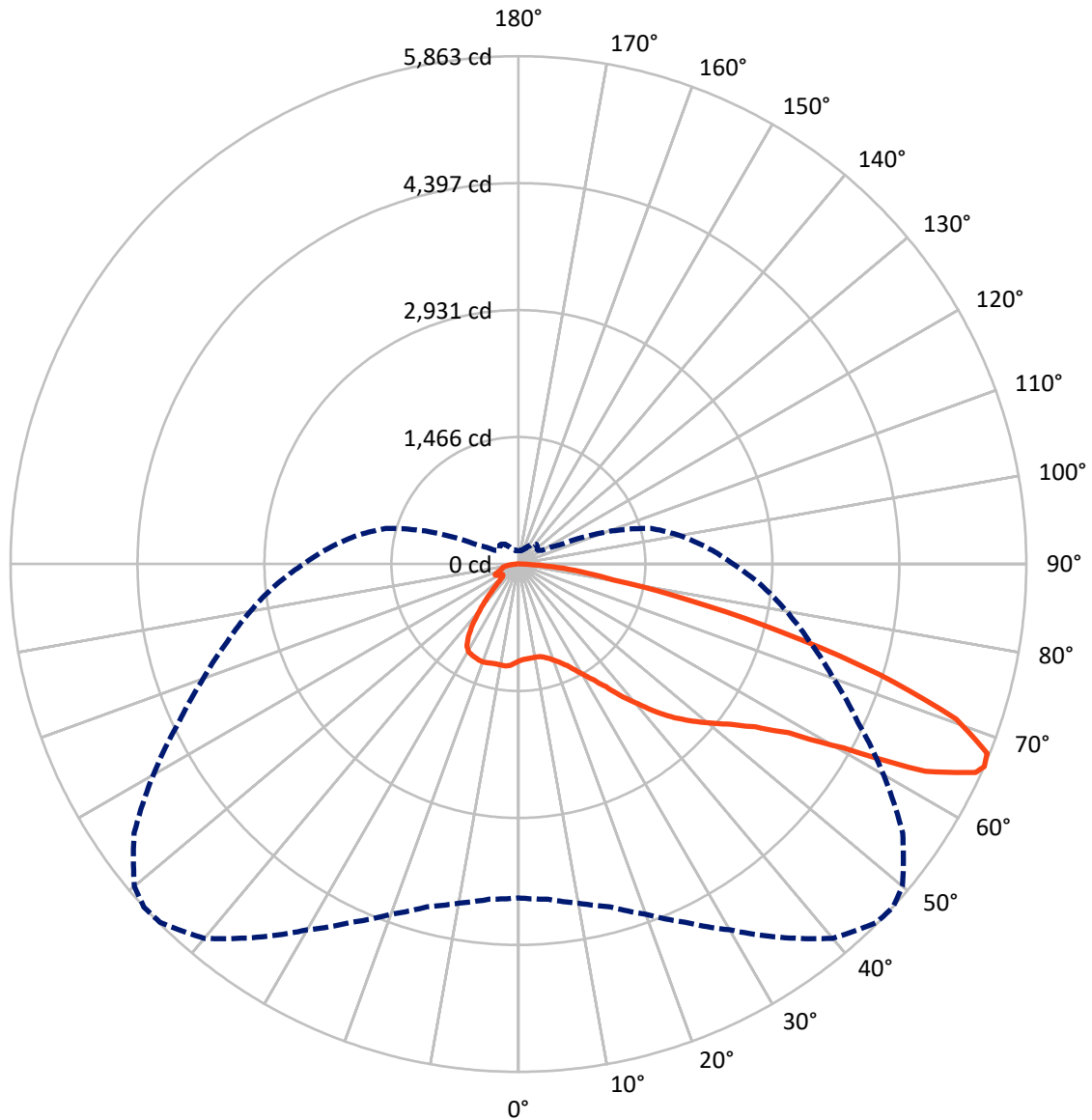


Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - Semi-Cutoff

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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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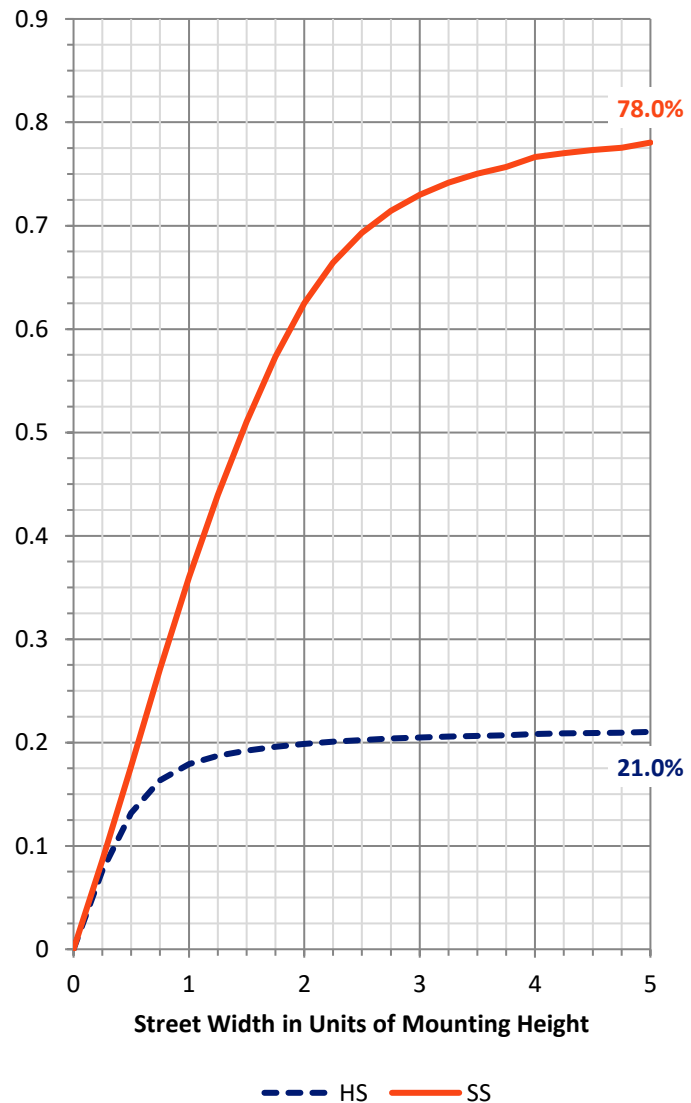
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1809.1	0.0	1809.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	6669.4	0.0	6669.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	8478.6	0.0	8478.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	1.3
10°-20°	329.5	3.9
20°-30°	567.5	6.7
30°-40°	858.6	10.1
40°-50°	1112.9	13.1
50°-60°	1534.3	18.1
60°-70°	2383.8	28.1
70°-80°	1386.2	16.3
80°-90°	197.1	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°	8478.6	100.0
0°-180°	8478.6	100.0



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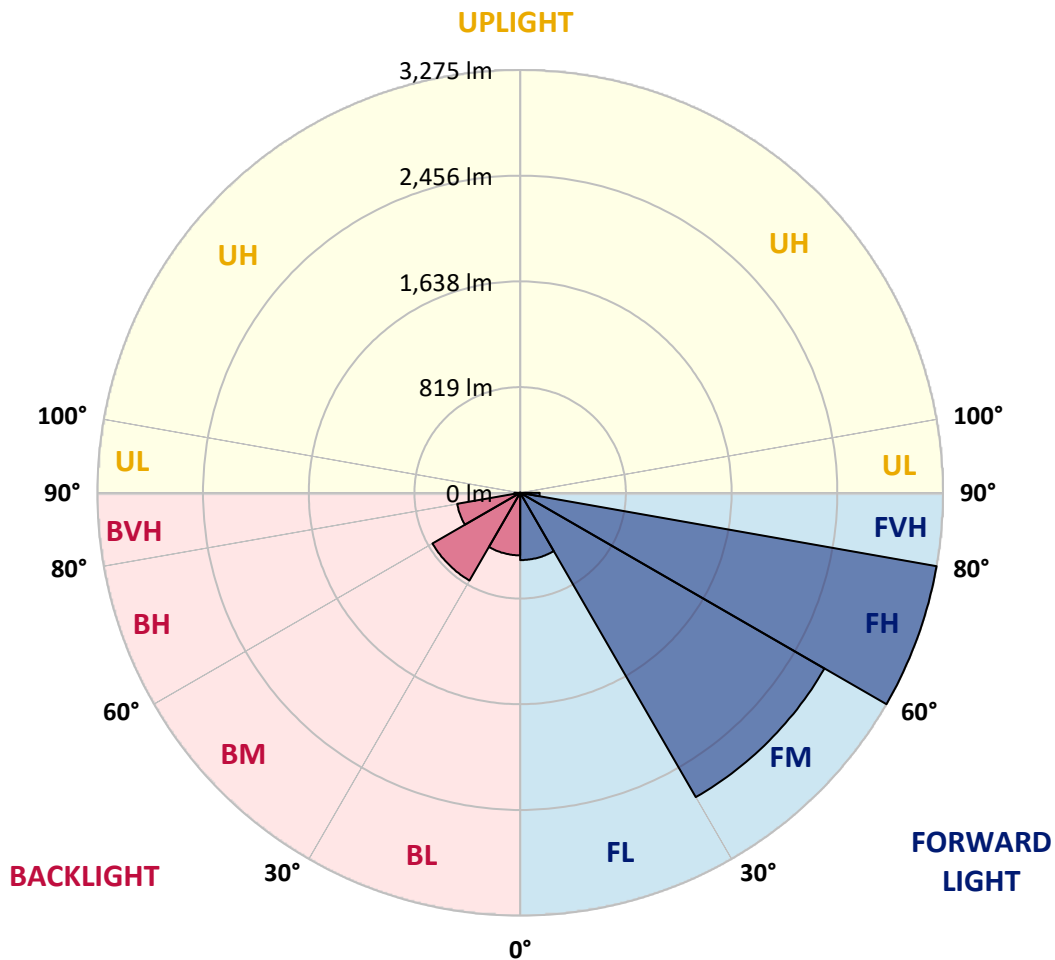
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	521.3	6.1			
FM	(30°-60°)	2721.6	32.1			
FH	(60°-80°)	3275.3	38.6			G2/5000
FVH	(80°-90°)	151.3	1.8			G2/225
BL	(0°-30°)	484.3	5.7	B1/500		
BM	(30°-60°)	784.2	9.2	B1/1000		
BH	(60°-80°)	494.8	5.8	B1/500		G1/500
BVH	(80°-90°)	45.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-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°	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6
2.5°	1096.9	1100.8	1098.0	1098.9	1098.9	1099.8	1099.8	1100.8	1099.8	1102.6	1104.5
5°	1077.3	1079.2	1078.2	1080.1	1082.1	1085.8	1084.8	1089.5	1090.4	1093.2	1098.0
7.5°	1069.9	1068.0	1068.9	1071.7	1073.6	1075.4	1077.3	1081.1	1083.9	1090.4	1094.1
10°	1077.3	1076.4	1077.3	1079.2	1079.2	1080.1	1078.2	1082.1	1083.9	1089.5	1093.2
12.5°	1108.2	1108.2	1106.3	1106.3	1104.5	1102.6	1098.0	1095.1	1094.1	1095.1	1096.9
15°	1157.8	1155.9	1152.2	1149.3	1145.6	1139.1	1132.5	1126.9	1123.2	1117.6	1115.7
17.5°	1206.4	1203.6	1199.8	1196.1	1191.4	1184.8	1174.6	1168.1	1157.8	1151.3	1147.4
20°	1262.5	1256.9	1252.2	1247.5	1238.1	1236.3	1226.1	1214.8	1202.6	1187.7	1185.9
22.5°	1335.5	1326.1	1320.5	1317.7	1308.3	1305.5	1288.7	1272.8	1257.9	1238.1	1233.5
25°	1409.3	1400.0	1397.2	1393.4	1386.9	1383.2	1367.3	1349.5	1329.9	1302.7	1297.1
27.5°	1481.3	1482.2	1474.8	1477.6	1475.7	1469.2	1453.3	1435.5	1420.6	1388.8	1382.2
30°	1571.1	1565.5	1561.8	1567.4	1560.8	1561.8	1547.7	1538.4	1514.1	1495.4	1482.2
32.5°	1664.7	1663.7	1669.3	1673.0	1672.1	1670.2	1659.0	1649.7	1628.2	1601.0	1595.5
35°	1792.8	1798.3	1803.1	1819.9	1819.9	1832.0	1820.8	1809.6	1784.4	1751.6	1740.4
37.5°	1879.7	1881.6	1900.3	1922.7	1950.8	1977.0	1984.5	1987.3	1977.0	1952.7	1935.8
40°	1959.3	1963.0	1992.8	2027.5	2068.7	2120.1	2150.9	2164.9	2167.7	2156.6	2120.1
42.5°	2038.7	2044.3	2075.2	2125.7	2182.7	2248.2	2302.4	2337.0	2356.7	2356.7	2335.2
45°	2131.3	2138.8	2172.5	2227.6	2294.1	2376.3	2451.2	2517.5	2549.3	2551.2	2530.6
47.5°	2240.8	2247.3	2286.5	2342.6	2410.9	2494.2	2588.6	2664.4	2723.3	2727.0	2710.2
50°	2382.0	2391.3	2424.0	2474.5	2544.7	2628.9	2723.3	2828.9	2890.7	2905.6	2887.8
52.5°	2568.9	2570.8	2598.0	2644.8	2712.9	2793.4	2893.5	3008.5	3089.9	3102.1	3073.0
55°	2827.1	2824.3	2842.1	2892.6	2944.0	3006.6	3110.4	3239.5	3330.3	3349.0	3319.0
57.5°	3177.8	3175.0	3190.0	3202.1	3298.4	3359.2	3461.1	3584.6	3672.5	3726.7	3675.3
60°	3721.1	3718.3	3742.6	3813.7	3885.7	3974.5	4073.7	4221.4	4344.9	4360.8	4310.3
62.5°	4114.8	4128.9	4182.2	4265.4	4411.3	4585.2	4766.6	4961.1	5214.6	5295.0	5270.7
65°	3977.3	4005.4	4079.3	4205.5	4400.1	4640.4	4924.7	5277.2	5616.8	5806.6	5801.0
66°	3853.9	3884.8	3975.5	4097.0	4302.8	4565.6	4876.1	5260.5	5640.1	5849.6	5862.7
67.5°	3629.5	3664.1	3753.0	3897.0	4097.0	4376.7	4710.5	5128.6	5557.8	5801.9	5836.5
70°	3192.8	3232.0	3296.6	3415.3	3612.7	3862.3	4214.0	4588.0	5037.9	5317.5	5359.6
72.5°	2669.0	2703.6	2775.6	2872.9	3034.7	3191.8	3467.6	3743.6	4065.2	4384.2	4353.3
75°	1916.2	1931.2	1974.2	2079.8	2166.8	2308.0	2529.7	2756.0	2975.7	3121.7	3142.3
77.5°	996.0	1035.3	1096.0	1212.9	1307.4	1434.6	1578.6	1748.8	1909.7	2043.4	2006.9
80°	651.8	668.7	722.9	782.8	852.0	933.3	1029.7	1093.2	1113.8	1105.4	1113.8
82.5°	375.9	406.8	478.8	524.7	576.1	604.1	680.8	753.8	794.9	743.4	724.7
85°	47.7	61.8	194.5	245.0	280.6	322.6	346.0	390.0	363.8	325.5	396.6
87.5°	10.3	9.4	13.1	28.1	29.0	24.3	45.9	48.7	30.0	15.0	18.7
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6
2.5°	1106.3	1107.3	1109.1	1111.9	1113.8	1115.7	1117.6	1120.4	1122.2	1124.1	1127.8
5°	1101.7	1105.4	1109.1	1112.8	1117.6	1125.0	1129.7	1133.5	1137.2	1144.7	1147.4
7.5°	1098.9	1105.4	1111.0	1117.6	1125.0	1131.5	1140.0	1144.7	1150.2	1155.0	1160.6
10°	1096.9	1106.3	1111.9	1121.3	1129.7	1136.3	1145.6	1151.3	1157.8	1163.4	1166.1
12.5°	1100.8	1105.4	1111.0	1120.4	1130.6	1140.0	1150.2	1155.0	1160.6	1165.2	1166.1
15°	1116.7	1116.7	1117.6	1125.0	1135.4	1142.8	1151.3	1155.9	1158.7	1161.5	1161.5
17.5°	1145.6	1139.1	1134.4	1135.4	1141.9	1146.5	1151.3	1151.3	1149.3	1148.4	1146.5
20°	1179.3	1170.9	1161.5	1155.0	1153.1	1149.3	1146.5	1137.2	1129.7	1123.2	1118.5
22.5°	1227.9	1214.8	1201.7	1189.6	1178.3	1164.3	1148.4	1129.7	1111.9	1099.8	1092.3
25°	1287.7	1277.5	1261.6	1242.9	1228.8	1202.6	1182.1	1155.0	1132.5	1116.7	1103.5
27.5°	1372.8	1360.7	1345.8	1328.9	1308.3	1279.4	1254.1	1222.3	1195.2	1171.8	1155.0
30°	1478.5	1462.6	1451.5	1430.8	1416.8	1384.1	1358.8	1319.5	1267.2	1229.8	1206.4
32.5°	1587.0	1569.2	1559.9	1544.0	1528.1	1508.5	1470.1	1409.3	1342.0	1281.2	1241.0
35°	1732.0	1713.3	1696.5	1682.4	1659.0	1622.5	1588.8	1515.9	1423.4	1338.2	1270.9
37.5°	1914.3	1883.5	1841.4	1805.9	1764.7	1712.3	1660.9	1586.1	1480.4	1370.1	1280.3
40°	2108.9	2054.6	1994.8	1928.4	1857.3	1781.5	1722.6	1646.9	1528.1	1397.2	1273.8
42.5°	2311.8	2225.8	2142.5	2049.0	1949.9	1860.1	1783.5	1700.2	1563.6	1404.7	1247.5
45°	2512.9	2416.6	2290.2	2167.7	2042.4	1931.2	1845.1	1751.6	1596.4	1407.5	1212.9
47.5°	2679.4	2580.2	2436.2	2282.8	2134.2	2007.8	1906.9	1805.9	1640.3	1427.1	1204.6
50°	2855.2	2734.5	2574.6	2393.1	2224.9	2083.6	1976.1	1871.4	1702.1	1477.6	1231.6
52.5°	3046.8	2908.5	2721.4	2518.4	2334.2	2176.2	2059.3	1951.7	1780.6	1548.7	1283.1
55°	3280.7	3111.4	2908.5	2679.4	2482.0	2307.1	2178.1	2050.9	1874.2	1632.8	1347.6
57.5°	3637.9	3430.3	3202.1	2941.1	2722.3	2515.6	2361.3	2214.5	2019.1	1758.2	1435.5
60°	4284.1	4062.4	3766.0	3449.9	3192.8	2951.5	2725.1	2542.8	2302.4	2005.0	1630.1
62.5°	5210.0	4915.4	4519.7	4077.4	3740.8	3392.9	3137.6	2866.3	2568.0	2247.3	1859.2
65°	5724.3	5367.1	4837.7	4324.3	3891.4	3513.5	3189.0	2874.8	2543.7	2236.9	1912.5
66°	5787.9	5415.7	4865.8	4325.2	3870.7	3482.6	3141.3	2815.8	2477.3	2184.6	1890.1
67.5°	5761.7	5381.1	4814.4	4243.9	3781.9	3364.9	3012.3	2674.6	2337.0	2064.0	1815.2
70°	5332.5	4971.5	4415.0	3862.3	3423.7	3012.3	2675.6	2343.5	2034.1	1800.2	1616.9
72.5°	4428.1	4119.6	3636.0	3202.1	2858.0	2518.4	2233.2	1916.2	1654.3	1481.3	1372.8
75°	3196.5	3009.4	2568.9	2320.2	2018.2	1792.8	1515.9	1328.0	1140.0	1055.8	1037.1
77.5°	2019.1	1767.5	1487.9	1225.1	1007.2	835.2	650.0	551.7	460.1	450.8	544.3
80°	1022.1	920.2	708.8	564.8	475.1	384.4	303.9	230.0	160.8	193.6	231.9
82.5°	669.6	558.3	437.7	360.0	313.3	260.0	202.0	140.3	102.9	116.0	159.0
85°	362.0	308.7	248.7	196.4	159.0	142.1	95.3	67.3	66.4	71.1	90.7
87.5°	26.1	26.1	20.6	18.7	22.4	18.7	16.8	16.8	15.9	16.8	22.4
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°	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6
2.5°	1129.7	1132.5	1133.5	1138.1	1140.9	1142.8	1144.7	1144.7	1145.6	1148.4	1149.3
5°	1151.3	1155.9	1161.5	1165.2	1167.1	1172.8	1174.6	1174.6	1176.5	1180.2	1183.0
7.5°	1164.3	1170.9	1176.5	1178.3	1182.1	1183.9	1186.8	1188.7	1188.7	1192.4	1194.2
10°	1169.0	1172.8	1178.3	1178.3	1182.1	1182.1	1184.8	1185.9	1185.9	1189.6	1192.4
12.5°	1169.0	1170.9	1175.5	1175.5	1178.3	1179.3	1183.0	1185.9	1186.8	1191.4	1195.2
15°	1163.4	1165.2	1169.0	1170.0	1176.5	1180.2	1188.7	1194.2	1194.2	1198.9	1200.8
17.5°	1147.4	1152.2	1159.6	1167.1	1179.3	1187.7	1198.0	1202.6	1198.9	1196.1	1193.3
20°	1121.3	1129.7	1147.4	1166.1	1187.7	1198.9	1204.6	1199.8	1186.8	1173.7	1165.2
22.5°	1095.1	1111.9	1141.9	1170.0	1194.2	1201.7	1198.9	1182.1	1160.6	1144.7	1133.5
25°	1107.3	1126.9	1155.9	1181.1	1197.0	1195.2	1183.9	1160.6	1137.2	1116.7	1098.0
27.5°	1157.8	1179.3	1195.2	1203.6	1201.7	1188.7	1170.9	1144.7	1116.7	1089.5	1063.4
30°	1205.5	1216.7	1220.4	1213.9	1198.9	1177.4	1155.0	1125.0	1087.6	1054.0	1024.0
32.5°	1227.0	1215.7	1198.0	1180.2	1155.9	1137.2	1106.3	1073.6	1026.8	986.6	956.7
35°	1227.0	1182.1	1137.2	1099.8	1063.4	1039.9	1004.4	960.5	917.4	883.7	860.4
37.5°	1199.8	1113.8	1039.9	979.2	933.3	908.1	854.8	815.4	779.0	767.8	752.8
40°	1150.2	1023.1	916.5	837.0	779.0	741.6	688.3	661.2	647.2	641.6	638.7
42.5°	1083.9	922.1	779.9	681.8	619.1	577.0	541.5	524.7	523.7	522.8	522.8
45°	1012.8	813.6	647.2	530.2	475.1	437.7	420.8	414.3	419.9	419.0	419.9
47.5°	968.8	731.4	525.6	401.2	359.1	334.8	326.4	329.2	333.9	332.0	332.0
50°	963.3	689.2	444.2	312.4	280.6	268.4	266.5	266.5	269.3	267.4	266.5
52.5°	983.8	682.7	402.1	268.4	243.2	232.8	231.0	230.0	229.1	223.5	218.8
55°	1019.4	697.7	390.0	257.2	231.0	219.8	216.9	215.1	211.4	203.9	195.4
57.5°	1090.4	744.4	401.2	262.8	234.7	225.4	222.6	222.6	215.1	203.0	190.8
60°	1261.6	863.2	447.0	284.3	252.5	243.2	245.0	244.1	232.8	215.1	196.4
62.5°	1482.2	1018.4	506.9	314.2	275.0	273.1	282.4	280.6	261.9	234.7	207.6
65°	1584.2	1091.4	523.7	320.7	279.6	288.0	306.7	304.8	281.5	244.1	209.5
66°	1586.1	1091.4	516.2	315.2	273.1	283.4	302.0	301.1	277.8	240.4	205.8
67.5°	1547.7	1061.4	494.7	303.9	260.0	267.4	284.3	283.4	261.9	231.0	198.2
70°	1403.7	950.1	439.5	284.3	242.2	238.5	244.1	240.4	226.3	204.8	182.3
72.5°	1202.6	797.7	383.4	269.3	230.0	215.1	211.4	208.6	197.3	185.2	171.2
75°	947.4	631.3	336.7	258.1	218.8	199.2	192.7	188.9	181.4	173.0	161.8
77.5°	584.5	451.7	293.7	243.2	210.4	190.8	186.1	180.5	169.3	159.0	150.6
80°	260.9	279.6	241.3	212.3	188.0	170.2	162.7	154.3	143.1	136.6	131.9
82.5°	174.0	180.5	174.9	159.0	142.1	128.1	116.9	116.9	115.1	109.4	107.5
85°	111.3	112.2	108.5	98.2	91.6	83.3	78.5	79.5	83.3	82.3	81.4
87.5°	25.2	25.2	30.0	28.1	32.7	34.6	37.4	40.2	45.9	45.9	48.7
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°	1117.6	1117.6	1117.6	1117.6	1117.6
2.5°	1150.2	1152.2	1154.1	1151.3	1152.2
5°	1183.0	1182.1	1186.8	1183.9	1185.9
7.5°	1193.3	1194.2	1198.0	1198.0	1198.9
10°	1194.2	1196.1	1200.8	1203.6	1205.5
12.5°	1198.9	1202.6	1210.1	1212.0	1212.0
15°	1202.6	1204.6	1209.2	1211.1	1212.9
17.5°	1189.6	1185.9	1187.7	1188.7	1187.7
20°	1156.8	1153.1	1152.2	1148.4	1150.2
22.5°	1121.3	1111.0	1104.5	1096.9	1096.9
25°	1078.2	1062.3	1049.3	1036.2	1039.0
27.5°	1038.1	1017.5	1004.4	996.0	994.1
30°	998.8	977.3	965.1	954.8	954.8
32.5°	933.3	918.3	902.4	895.9	895.0
35°	842.6	833.2	820.2	817.4	812.7
37.5°	740.7	737.9	726.6	725.7	721.0
40°	634.1	635.9	632.2	630.3	627.5
42.5°	527.4	536.8	534.9	534.0	532.1
45°	425.5	432.1	433.0	435.8	440.5
47.5°	334.8	336.7	338.5	337.6	338.5
50°	261.9	257.2	256.3	253.4	256.3
52.5°	211.4	203.9	200.1	196.4	194.5
55°	186.1	178.6	174.9	173.0	171.2
57.5°	179.5	172.1	166.4	162.7	161.8
60°	181.4	170.2	162.7	158.0	157.1
62.5°	186.1	171.2	160.8	156.2	155.3
65°	185.2	169.3	159.9	154.3	153.4
66°	182.3	167.4	158.0	153.4	152.5
67.5°	177.7	164.6	156.2	152.5	150.6
70°	169.3	160.8	154.3	149.7	147.7
72.5°	161.8	155.3	149.7	144.9	144.0
75°	153.4	147.7	142.1	138.4	137.5
77.5°	143.1	137.5	133.8	130.9	130.0
80°	126.2	122.5	118.8	115.1	115.1
82.5°	104.7	102.0	98.2	95.3	94.4
85°	80.5	80.5	77.6	74.8	73.9
87.5°	47.7	46.8	46.8	44.0	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)