

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: McGRAW-EDISON

Report Number: P226970

Luminaire Tested: **IST-AF-1000-LED-E1-SL3-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-1000-LED-E1-SL3-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7642.2 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

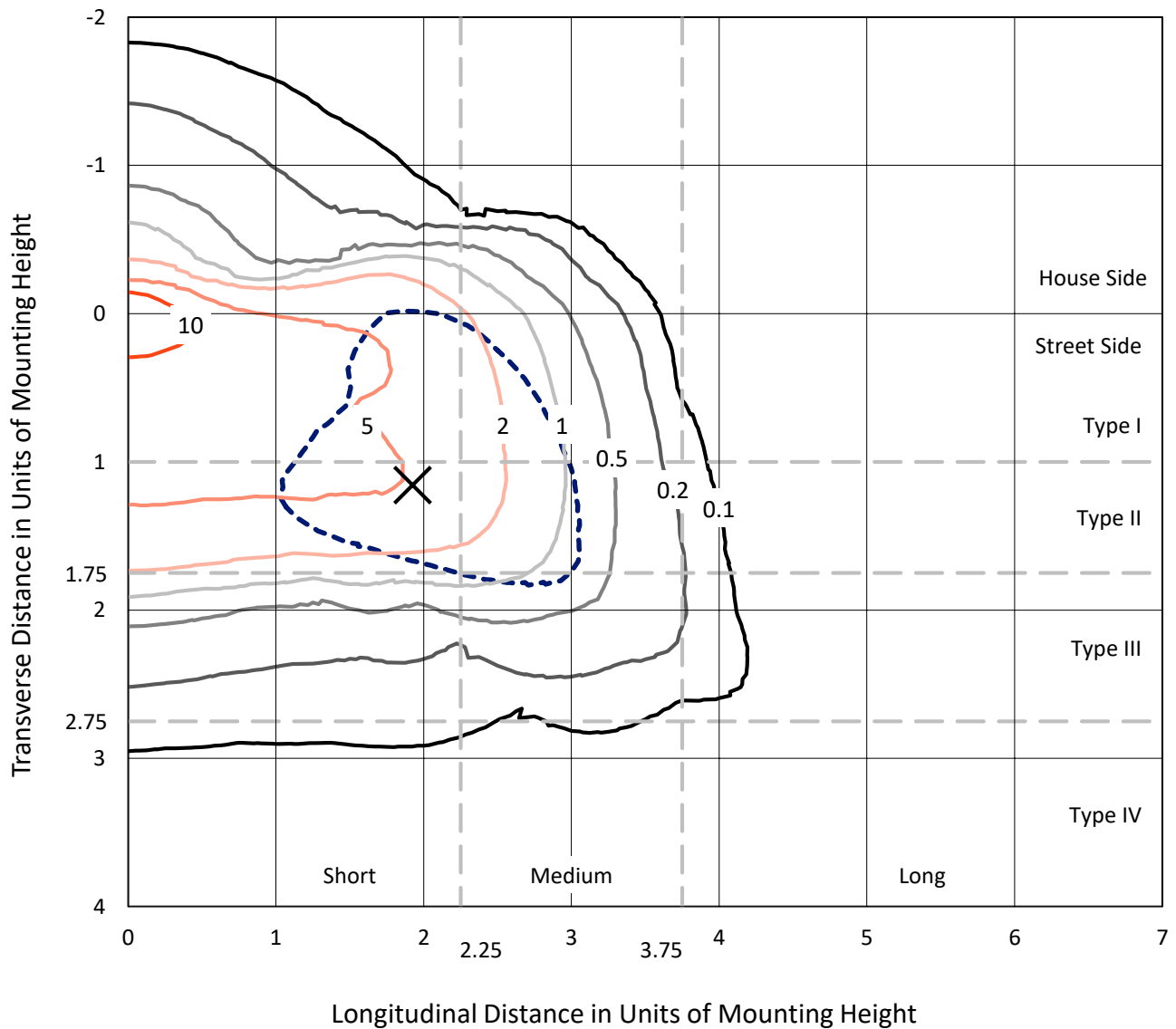
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

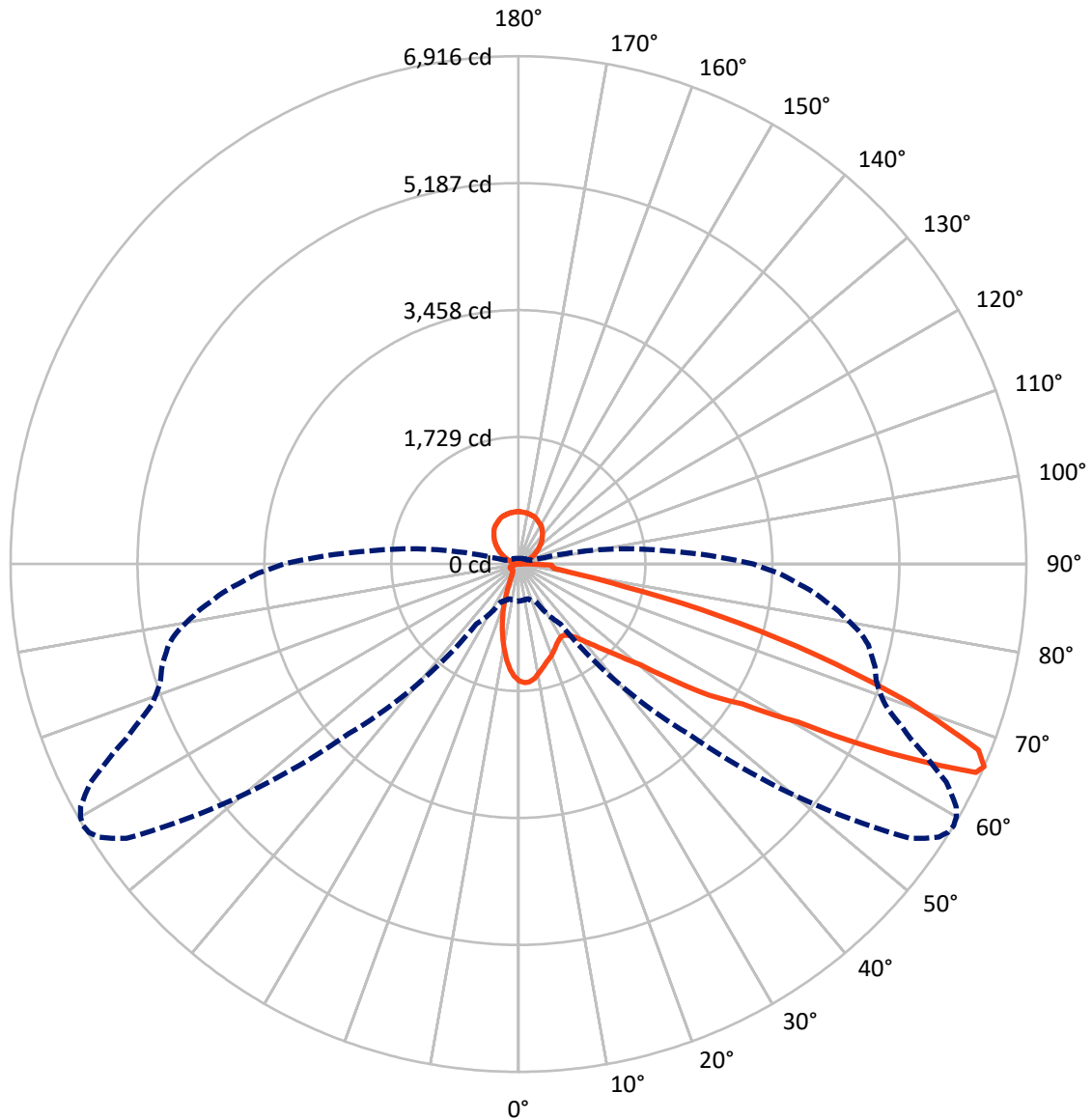
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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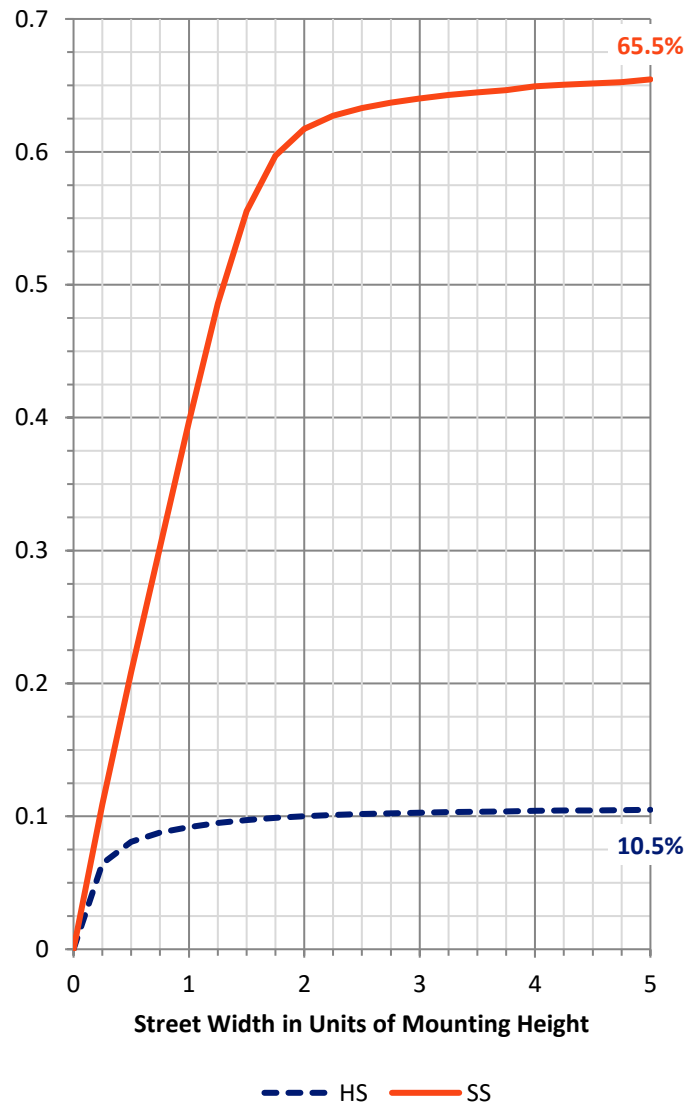
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	814.4	887.8	1702.3
	% Fixture	10.7	11.6	22.3
Street Side	Lumens	5050.3	889.6	5939.9
	% Fixture	66.1	11.6	77.7
Total	Lumens	5864.7	1777.5	7642.2
	% Fixture	76.7	23.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	1.8
10°-20°	287.0	3.8
20°-30°	360.0	4.7
30°-40°	492.5	6.4
40°-50°	792.3	10.4
50°-60°	1376.7	18.0
60°-70°	1672.7	21.9
70°-80°	624.0	8.2
80°-90°	123.8	1.6
90°-100°	12.0	0.2
100°-110°	58.7	0.8
110°-120°	169.9	2.2
120°-130°	279.4	3.7
130°-140°	344.6	4.5
140°-150°	352.5	4.6
150°-160°	297.0	3.9
160°-170°	195.5	2.6
170°-180°	67.8	0.9
0°-90°	5864.7	76.7
0°-180°	7642.2	100.0



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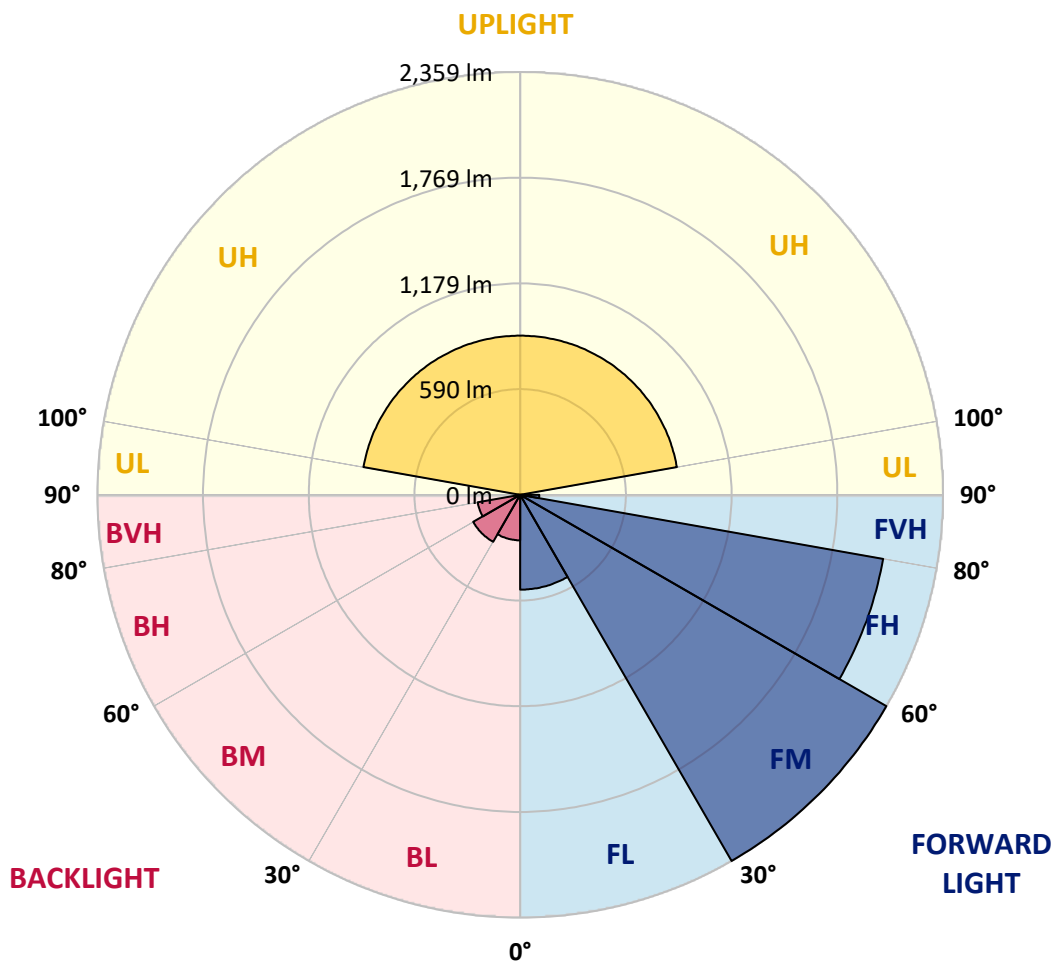
CATALOG NUMBER: IST-AF-1000-LED-E1-SL3-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	529.0	6.9			
FM (30°-60°)	2358.9	30.9			
FH (60°-80°)	2056.0	26.9			G2/5000
FVH (80°-90°)	106.4	1.4			G2/225
BL (0°-30°)	253.8	3.3	B1/500		
BM (30°-60°)	302.6	4.0	B1/1000		
BH (60°-80°)	240.7	3.1	B1/500		G1/500
BVH (80°-90°)	17.4	0.2			G1/100
UL (90°-100°)	12.0	0.2		U2/50	
UH (100°-180°)	887.8	11.6		U4/1000	

BUG Rating: B1-U5-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7
2.5°	1635.1	1629.7	1639.5	1635.9	1638.7	1625.2	1622.4	1619.7	1621.6	1618.8	1618.8
5°	1596.3	1593.7	1605.3	1611.7	1617.1	1615.2	1614.3	1614.3	1615.2	1609.0	1609.8
7.5°	1483.1	1481.2	1497.4	1509.2	1535.2	1550.5	1570.3	1571.2	1573.0	1570.3	1575.7
10°	1362.6	1367.9	1382.3	1401.2	1439.9	1463.2	1501.1	1508.2	1510.9	1511.8	1512.7
12.5°	1247.4	1242.1	1260.0	1296.0	1348.1	1385.9	1433.6	1437.1	1441.6	1448.0	1454.2
15°	1144.9	1151.2	1165.6	1203.3	1258.2	1311.2	1373.3	1376.9	1385.9	1391.3	1400.3
17.5°	1074.7	1074.7	1090.9	1126.0	1177.2	1244.7	1323.0	1329.2	1336.5	1343.6	1353.6
20°	1039.6	1039.6	1046.0	1066.6	1111.6	1176.4	1270.8	1278.0	1290.6	1298.6	1312.1
22.5°	1037.0	1036.0	1035.1	1039.6	1066.6	1117.0	1215.1	1224.9	1235.7	1248.3	1260.0
25°	1065.7	1068.5	1057.6	1050.5	1053.1	1076.6	1162.0	1167.4	1188.1	1196.1	1210.6
27.5°	1107.1	1111.6	1102.6	1091.8	1075.6	1060.4	1117.0	1126.0	1139.5	1153.0	1171.0
30°	1166.5	1165.6	1164.6	1157.5	1126.0	1078.3	1103.6	1109.8	1121.5	1132.3	1147.5
32.5°	1230.3	1237.6	1242.9	1239.3	1207.0	1126.0	1122.4	1127.8	1138.5	1144.9	1154.8
35°	1313.1	1316.6	1337.3	1337.3	1305.0	1211.5	1175.5	1180.0	1185.4	1188.1	1195.2
37.5°	1403.9	1416.5	1447.1	1465.1	1414.7	1317.6	1259.2	1259.2	1261.8	1263.7	1268.0
40°	1509.2	1527.2	1569.4	1603.6	1571.2	1449.7	1368.8	1376.9	1374.2	1370.7	1380.5
42.5°	1631.4	1651.2	1702.5	1734.8	1716.0	1609.0	1516.3	1510.9	1519.0	1508.2	1511.8
45°	1773.5	1788.8	1841.0	1875.2	1890.4	1804.1	1709.7	1698.9	1698.9	1675.5	1685.4
47.5°	1901.3	1905.8	1956.1	2016.3	2065.8	2067.6	1934.5	1927.3	1910.3	1894.9	1891.3
50°	2019.9	2033.4	2065.8	2131.5	2234.9	2324.9	2243.9	2221.4	2202.5	2145.8	2162.9
52.5°	2225.9	2252.0	2272.7	2312.3	2434.5	2617.1	2717.0	2681.9	2677.4	2626.1	2614.5
55°	2264.6	2267.3	2335.6	2564.0	2851.9	2983.1	3174.7	3173.8	3188.2	3172.1	3156.7
57.5°	2082.9	2061.3	2175.5	2476.9	3055.1	3729.7	3671.2	3677.5	3658.6	3609.2	3593.8
60°	1622.4	1640.4	1763.7	2147.7	2908.6	4211.7	4597.6	4483.3	4565.1	4436.5	4367.3
62.5°	912.9	892.1	975.8	1379.7	2386.0	4236.9	5859.4	5871.9	5911.5	5839.5	5670.4
65°	589.1	580.1	572.0	697.9	1430.0	3706.3	6557.2	6711.9	6804.6	6842.3	6845.1
66°	506.4	499.1	489.3	571.1	996.5	3265.6	6512.3	6677.7	6825.2	6895.4	6916.1
67.5°	430.8	420.0	418.2	473.0	693.4	2533.5	6083.3	6343.2	6473.6	6655.2	6754.2
70°	329.2	323.8	339.9	408.3	532.4	1192.6	4847.6	5186.6	5411.4	5553.5	5645.3
72.5°	276.1	274.4	296.8	373.3	504.5	676.3	3393.3	3757.5	3992.3	4128.0	4253.9
75°	215.8	217.7	247.3	356.2	501.9	589.1	1971.4	2318.5	2455.3	2669.3	2833.0
77.5°	161.9	160.1	183.5	287.8	489.3	597.2	1024.4	1168.3	1318.5	1427.3	1466.8
80°	113.3	115.1	131.3	197.8	381.4	614.3	638.5	671.8	703.3	738.4	745.5
82.5°	75.6	76.4	97.2	135.8	264.4	586.4	596.3	581.0	556.7	526.1	492.9
85°	45.8	47.7	69.3	91.8	205.1	530.6	616.9	576.5	539.6	499.1	458.7
87.5°	23.4	26.1	41.3	54.0	121.4	261.7	642.1	612.4	562.1	500.0	455.1
90°	11.5	11.5	16.2	21.7	32.4	60.3	169.1	153.0	80.4	146.3	76.3
92.5°	4.1	4.1	5.1	6.1	6.1	6.1	7.2	7.2	7.2	7.2	7.2
95°	5.1	5.1	6.1	7.2	7.2	7.2	7.2	7.3	7.4	7.5	7.6
97.5°	7.2	7.2	8.2	8.2	9.2	9.2	12.3	12.1	11.9	11.7	11.5
100°	8.2	8.2	9.2	10.2	12.3	21.5	29.7	29.4	29.1	28.7	28.4
102.5°	11.3	11.3	13.3	18.4	27.6	40.9	51.1	50.8	50.5	50.2	49.9
105°	21.5	22.5	27.6	36.8	49.1	64.4	73.7	73.4	73.2	73.0	72.8
107.5°	41.9	43.0	50.1	59.3	74.7	90.0	97.2	97.1	97.0	96.9	96.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	67.5	69.6	75.7	89.0	104.3	116.6	122.8	122.9	123.0	123.1	123.2
112.5°	101.3	101.3	108.4	123.8	137.1	146.3	151.4	151.6	151.8	152.0	152.2
115°	143.2	142.2	150.4	162.6	171.9	178.0	183.1	183.4	183.7	184.0	184.3
117.5°	188.2	188.2	193.3	201.5	206.6	209.7	215.8	216.3	216.7	217.1	217.5
120°	230.2	228.1	231.2	238.3	242.4	248.6	251.6	252.1	252.5	252.9	253.3
122.5°	269.0	266.0	267.0	273.1	277.2	283.4	285.4	285.8	286.2	286.6	287.0
125°	304.8	300.7	302.8	305.9	312.0	317.1	320.2	320.4	320.6	320.8	321.0
127.5°	337.6	336.6	336.6	340.6	346.8	347.8	352.9	353.0	353.1	353.2	353.3
130°	371.3	369.3	370.3	374.4	378.5	380.5	385.7	386.1	386.5	386.9	387.3
132.5°	405.1	403.0	402.0	410.2	413.3	414.3	420.4	420.9	421.5	422.0	422.5
135°	438.8	435.8	435.8	441.9	445.0	447.0	453.2	453.7	454.2	454.7	455.2
137.5°	470.6	467.5	469.5	470.6	474.6	478.7	483.9	484.1	484.3	484.5	484.7
140°	499.2	496.1	498.2	500.2	502.3	508.4	511.5	511.7	511.9	512.1	512.3
142.5°	529.9	526.8	528.9	529.9	533.0	537.0	539.1	539.7	540.3	540.9	541.6
145°	562.6	558.5	556.5	559.6	562.6	563.6	568.8	569.4	570.0	570.6	571.2
147.5°	588.2	585.1	584.1	587.2	587.2	588.2	593.3	593.8	594.3	594.8	595.4
150°	608.7	605.6	606.6	606.6	606.6	606.6	610.7	611.0	611.3	611.6	611.9
152.5°	625.0	622.0	622.0	623.0	624.0	624.0	625.0	625.3	625.6	625.9	626.3
155°	643.4	639.3	639.3	641.4	644.5	642.4	640.4	640.9	641.4	641.9	642.4
157.5°	660.8	657.8	657.8	658.8	660.8	659.8	658.8	659.2	659.6	660.0	660.4
160°	678.2	675.1	674.1	671.1	670.0	670.0	673.1	673.7	674.3	674.9	675.6
162.5°	688.4	684.4	684.4	680.3	676.2	678.2	682.3	682.7	683.1	683.5	683.9
165°	696.6	693.6	691.5	691.5	688.4	688.4	687.4	687.9	688.4	689.0	689.5
167.5°	705.8	702.8	699.7	701.7	703.8	700.7	693.6	694.2	694.8	695.4	696.0
170°	714.0	711.0	707.9	707.9	708.9	706.9	701.7	702.1	702.4	702.7	703.0
172.5°	715.0	713.0	711.0	708.9	705.8	705.8	704.8	705.1	705.4	705.7	706.0
175°	716.1	714.0	713.0	711.0	706.9	705.8	705.8	706.3	706.9	707.4	707.9
177.5°	723.2	721.2	716.1	715.0	713.0	711.0	709.9	710.4	711.0	711.5	712.0
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7
2.5°	1617.9	1619.7	1617.9	1615.2	1617.9	1615.2	1614.3	1613.5	1614.3	1612.6	1611.7
5°	1609.8	1611.7	1611.7	1606.2	1605.3	1609.0	1603.6	1605.3	1603.6	1601.7	1598.2
7.5°	1571.2	1572.1	1573.0	1569.4	1572.1	1572.1	1570.3	1570.3	1568.5	1569.4	1565.8
10°	1517.2	1520.8	1524.4	1522.7	1521.7	1529.8	1526.2	1528.9	1528.9	1526.2	1527.2
12.5°	1458.7	1465.1	1469.6	1469.6	1473.2	1482.2	1481.2	1483.1	1490.2	1490.2	1487.6
15°	1404.8	1411.1	1418.3	1423.6	1430.9	1437.1	1441.6	1448.9	1452.5	1452.5	1457.0
17.5°	1362.6	1371.6	1379.7	1382.3	1392.2	1403.0	1405.7	1414.7	1420.1	1422.8	1428.1
20°	1321.1	1331.1	1341.0	1350.0	1358.9	1371.6	1377.8	1383.2	1392.2	1397.6	1405.7
22.5°	1272.6	1287.9	1300.5	1311.2	1326.6	1337.3	1350.0	1358.9	1369.7	1377.8	1384.2
25°	1226.7	1247.4	1264.5	1275.3	1296.0	1311.2	1326.6	1340.1	1353.6	1365.2	1374.2
27.5°	1184.5	1207.8	1228.6	1245.6	1268.0	1292.4	1307.6	1330.1	1348.1	1364.3	1375.2
30°	1163.8	1183.6	1205.1	1224.9	1247.4	1278.0	1303.1	1332.0	1354.4	1375.2	1391.3
32.5°	1168.3	1186.2	1205.1	1222.2	1245.6	1279.8	1305.9	1339.1	1372.4	1399.4	1420.1
35°	1204.2	1220.4	1233.1	1248.3	1269.0	1295.1	1323.0	1358.1	1399.4	1435.4	1462.3
37.5°	1279.8	1284.3	1296.9	1308.6	1319.4	1343.6	1369.7	1399.4	1447.1	1484.8	1522.7
40°	1373.3	1385.0	1396.7	1402.1	1414.7	1430.0	1441.6	1473.2	1515.4	1564.9	1606.2
42.5°	1512.7	1517.2	1519.0	1520.8	1525.3	1536.1	1553.1	1582.0	1623.3	1667.4	1713.2
45°	1669.3	1674.6	1680.0	1682.7	1676.4	1682.7	1700.7	1714.2	1754.7	1796.0	1854.5
47.5°	1885.9	1869.7	1861.7	1872.5	1867.1	1880.6	1888.7	1896.8	1945.3	1994.8	2044.3
50°	2163.8	2153.9	2141.3	2142.3	2152.2	2143.2	2148.6	2178.3	2194.4	2235.8	2301.4
52.5°	2608.1	2577.5	2529.9	2509.2	2520.9	2513.7	2516.5	2522.7	2512.0	2550.6	2606.4
55°	3156.7	3117.1	3085.7	3067.7	3001.1	2995.8	2951.7	2935.5	2900.5	2937.3	2924.7
57.5°	3548.0	3522.8	3506.6	3452.7	3422.1	3360.9	3342.9	3321.3	3272.7	3297.1	3318.7
60°	4303.5	4213.5	4182.9	4088.5	4057.0	3998.5	3923.9	3887.0	3861.8	3885.3	3870.8
62.5°	5564.3	5439.3	5415.1	5191.1	5136.2	5001.3	4861.1	4842.1	4763.0	4713.6	4701.9
65°	6795.6	6616.5	6482.5	6238.0	6072.4	5880.0	5665.9	5509.5	5348.5	5267.6	5160.5
66°	6887.3	6816.2	6681.3	6538.4	6297.3	6086.9	5844.0	5674.9	5494.2	5352.1	5260.3
67.5°	6730.8	6693.1	6645.4	6548.2	6397.1	6201.1	5970.9	5755.0	5537.3	5370.1	5223.5
70°	5689.3	5730.7	5784.7	5759.5	5673.2	5596.7	5393.5	5272.9	5109.2	4889.8	4799.9
72.5°	4294.4	4405.0	4367.3	4225.2	4158.6	4105.6	4031.9	3950.8	3716.2	3689.2	3583.1
75°	2762.8	2726.0	2750.2	2577.5	2459.8	2411.2	2235.8	2163.8	1987.6	1873.3	1786.2
77.5°	1456.1	1384.2	1328.4	1176.4	1067.6	1003.7	918.2	817.5	662.9	653.9	512.6
80°	675.5	620.5	570.2	517.1	464.1	393.9	341.8	278.8	246.4	211.3	196.9
82.5°	458.7	423.6	393.0	357.9	317.5	268.9	232.0	196.9	168.2	151.1	137.6
85°	415.5	377.8	343.5	299.5	257.2	216.8	177.2	146.6	119.6	104.3	95.3
87.5°	403.9	357.0	321.1	273.4	232.0	190.7	152.9	118.8	92.7	75.6	64.8
90°	59.4	63.2	48.2	46.5	25.2	29.9	24.4	18.2	19.1	16.4	17.3
92.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.1	7.0	6.9	6.8	6.6
95°	7.7	7.8	7.9	8.0	8.1	8.2	8.1	8.0	7.9	7.8	7.7
97.5°	11.3	11.0	10.8	10.6	10.4	10.2	10.1	10.0	9.9	9.8	9.7
100°	28.1	27.8	27.5	27.2	26.9	26.6	26.3	26.0	25.7	25.4	25.1
102.5°	49.6	49.3	49.0	48.7	48.4	48.1	47.6	47.1	46.5	46.0	45.5
105°	72.6	72.4	72.2	72.0	71.8	71.6	71.1	70.6	70.1	69.6	69.0
107.5°	96.7	96.6	96.5	96.4	96.3	96.2	95.7	95.3	94.9	94.5	94.1



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	123.3	123.4	123.5	123.6	123.7	123.8	123.6	123.4	123.2	123.0	122.8
112.5°	152.4	152.6	152.8	153.0	153.2	153.4	153.3	153.2	153.1	153.0	152.9
115°	184.6	184.9	185.3	185.6	185.9	186.2	185.9	185.6	185.3	184.9	184.6
117.5°	217.9	218.3	218.7	219.1	219.5	219.9	219.4	218.9	218.4	217.9	217.4
120°	253.7	254.1	254.5	254.9	255.3	255.7	255.2	254.7	254.2	253.7	253.2
122.5°	287.4	287.9	288.3	288.7	289.1	289.5	289.0	288.5	288.0	287.4	286.9
125°	321.2	321.4	321.6	321.8	322.0	322.2	321.7	321.2	320.7	320.2	319.7
127.5°	353.4	353.5	353.6	353.7	353.8	353.9	353.9	353.9	353.9	353.9	353.9
130°	387.7	388.1	388.5	388.9	389.3	389.7	389.7	389.7	389.7	389.7	389.7
132.5°	423.0	423.5	424.0	424.5	425.0	425.5	425.3	425.1	424.9	424.7	424.5
135°	455.7	456.2	456.7	457.3	457.8	458.3	458.2	458.1	458.0	457.9	457.8
137.5°	484.9	485.1	485.3	485.5	485.7	485.9	486.0	486.1	486.2	486.3	486.4
140°	512.5	512.7	512.9	513.1	513.3	513.5	513.7	513.9	514.1	514.3	514.5
142.5°	542.2	542.8	543.4	544.0	544.6	545.2	545.2	545.2	545.2	545.2	545.2
145°	571.8	572.4	573.1	573.7	574.3	574.9	574.8	574.7	574.6	574.5	574.4
147.5°	595.9	596.4	596.9	597.4	597.9	598.4	598.5	598.6	598.7	598.8	598.9
150°	612.2	612.5	612.8	613.2	613.5	613.8	614.1	614.4	614.7	615.0	615.3
152.5°	626.6	626.9	627.2	627.5	627.8	628.1	628.5	628.9	629.3	629.7	630.1
155°	642.9	643.4	643.9	644.5	645.0	645.5	646.0	646.5	647.0	647.5	648.0
157.5°	660.8	661.2	661.6	662.1	662.5	662.9	663.1	663.3	663.5	663.7	663.9
160°	676.2	676.8	677.4	678.0	678.6	679.2	678.9	678.6	678.3	678.0	677.7
162.5°	684.4	684.8	685.2	685.6	686.0	686.4	686.3	686.2	686.1	686.0	685.9
165°	690.0	690.5	691.0	691.5	692.0	692.5	692.8	693.2	693.5	693.8	694.1
167.5°	696.6	697.2	697.9	698.5	699.1	699.7	700.1	700.5	700.9	701.3	701.7
170°	703.3	703.6	703.9	704.2	704.5	704.8	705.3	705.8	706.3	706.9	707.4
172.5°	706.3	706.7	707.0	707.3	707.6	707.9	708.1	708.3	708.5	708.7	708.9
175°	708.4	708.9	709.4	709.9	710.4	711.0	711.1	711.2	711.3	711.4	711.5
177.5°	712.5	713.0	713.5	714.0	714.5	715.0	715.2	715.5	715.7	715.9	716.1
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



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CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7
2.5°	1609.8	1607.2	1609.8	1609.0	1605.3	1606.2	1607.2	1603.6	1601.7	1601.7	1600.8
5°	1595.5	1593.7	1595.5	1594.6	1589.2	1588.2	1588.2	1585.6	1582.0	1579.2	1577.5
7.5°	1561.3	1563.1	1562.1	1559.5	1556.8	1556.8	1554.1	1547.8	1544.2	1540.6	1537.0
10°	1522.7	1522.7	1523.5	1522.7	1518.2	1516.3	1512.7	1509.2	1510.0	1501.1	1493.8
12.5°	1488.4	1488.4	1487.6	1485.7	1483.1	1482.2	1482.2	1471.3	1468.7	1466.0	1457.9
15°	1456.1	1457.9	1457.9	1457.9	1453.4	1453.4	1448.9	1441.6	1441.6	1433.6	1425.5
17.5°	1430.9	1433.6	1432.6	1433.6	1434.5	1429.1	1421.0	1416.5	1411.1	1406.6	1395.8
20°	1409.3	1411.1	1412.0	1412.0	1409.3	1405.7	1398.5	1391.3	1387.7	1378.7	1365.2
22.5°	1389.5	1393.2	1394.0	1394.0	1390.4	1387.7	1380.5	1369.7	1362.6	1351.7	1339.1
25°	1381.4	1385.9	1383.2	1385.0	1381.4	1375.2	1365.2	1356.2	1345.5	1332.0	1318.5
27.5°	1384.2	1390.4	1388.7	1387.7	1383.2	1378.7	1366.2	1355.3	1342.7	1326.6	1309.5
30°	1400.3	1411.1	1406.6	1403.0	1402.1	1391.3	1379.7	1364.3	1350.0	1331.1	1311.2
32.5°	1430.9	1436.3	1437.1	1434.5	1430.0	1421.0	1404.8	1385.0	1368.8	1346.3	1323.0
35°	1481.2	1486.7	1484.8	1484.8	1480.3	1466.0	1446.1	1426.4	1403.9	1378.7	1354.4
37.5°	1551.4	1561.3	1559.5	1555.9	1550.5	1533.4	1518.2	1493.8	1468.7	1435.4	1407.5
40°	1639.5	1654.8	1668.3	1665.6	1653.0	1637.7	1623.3	1595.5	1570.3	1533.4	1502.8
42.5°	1758.2	1778.9	1796.0	1808.6	1803.3	1783.4	1758.2	1746.6	1710.6	1672.8	1641.3
45°	1910.3	1953.4	1968.7	1984.0	1984.0	1971.4	1966.0	1942.6	1904.8	1854.5	1824.8
47.5°	2110.8	2168.3	2185.4	2211.5	2226.9	2213.4	2203.4	2163.8	2138.7	2069.4	2062.3
50°	2354.5	2412.1	2458.9	2489.5	2485.0	2496.6	2473.3	2450.8	2415.7	2359.0	2339.3
52.5°	2665.7	2711.5	2753.9	2771.8	2790.7	2788.1	2782.6	2767.3	2723.3	2692.7	2642.3
55°	2985.0	3022.7	3074.0	3103.7	3128.0	3123.5	3102.8	3065.9	3074.0	3010.1	2982.3
57.5°	3348.3	3389.6	3445.4	3473.3	3484.2	3539.0	3525.5	3521.0	3505.8	3483.2	3454.4
60°	3973.3	3985.1	4030.9	4101.1	4187.4	4170.4	4192.0	4206.3	4217.1	4166.7	4163.1
62.5°	4718.1	4732.5	4772.0	4786.4	4799.0	4800.8	4772.0	4772.0	4722.6	4657.8	4607.4
65°	5124.6	5094.9	5067.9	5052.6	5019.3	4989.6	4946.5	4888.1	4804.4	4704.6	4614.6
66°	5183.0	5122.7	5087.6	5049.0	4996.0	4941.1	4889.8	4809.8	4711.7	4593.0	4474.3
67.5°	5126.3	5043.7	4961.7	4905.2	4831.4	4732.5	4642.5	4549.0	4456.3	4293.5	4182.9
70°	4609.2	4510.3	4420.4	4296.3	4179.4	4082.2	3927.5	3764.8	3630.8	3459.8	3351.0
72.5°	3423.0	3306.1	3189.2	3014.6	2844.7	2819.5	2625.2	2433.7	2331.1	2193.5	2082.9
75°	1690.8	1543.3	1333.7	1240.2	1104.4	1037.9	1001.0	862.4	829.2	693.4	691.6
77.5°	477.5	410.1	364.3	317.5	297.7	283.3	233.8	223.9	203.3	199.7	187.9
80°	180.8	170.8	166.3	161.9	157.4	154.7	152.9	145.7	142.1	136.7	134.0
82.5°	130.4	126.8	118.8	116.0	112.4	107.0	106.1	101.6	98.9	93.5	91.8
85°	88.2	83.7	79.2	74.7	72.8	71.9	69.3	67.4	65.7	62.9	62.1
87.5°	59.3	54.8	49.5	47.7	46.7	47.7	48.6	46.7	45.8	44.1	43.2
90°	16.4	19.1	18.2	18.2	20.0	18.0	17.8	18.5	17.4	17.2	16.1
92.5°	6.5	6.4	6.3	6.2	6.1	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.6	7.5	7.4	7.3	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.6	9.5	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.7	8.6
100°	24.8	24.4	24.1	23.8	23.5	23.1	22.7	22.3	21.9	21.5	21.1
102.5°	45.0	44.5	44.0	43.5	43.0	42.7	42.4	42.0	41.7	41.4	41.1
105°	68.5	68.0	67.5	67.0	66.5	66.1	65.7	65.3	64.9	64.4	64.0
107.5°	93.7	93.3	92.9	92.5	92.1	91.8	91.5	91.1	90.8	90.5	90.2

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 CATALOG NUMBER: IST-AF-1000-LED-E1-SL3-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	122.5	122.3	122.1	121.9	121.7	121.4	121.1	120.8	120.5	120.2	119.9	0°
112.5°	152.8	152.7	152.6	152.5	152.4	152.2	152.0	151.8	151.6	151.4	151.2	2.5°
115°	184.3	184.0	183.7	183.4	183.1	182.9	182.7	182.5	182.3	182.1	181.9	5°
117.5°	216.9	216.4	215.8	215.3	214.8	214.6	214.4	214.2	214.0	213.8	213.6	7.5°
120°	252.7	252.2	251.6	251.1	250.6	250.4	250.2	250.0	249.8	249.6	249.4	10°
122.5°	286.4	285.9	285.4	284.9	284.4	284.2	284.0	283.8	283.6	283.4	283.2	12.5°
125°	319.2	318.6	318.1	317.6	317.1	317.1	317.1	317.1	317.1	317.1	317.1	15°
127.5°	353.9	353.9	353.9	353.9	353.9	353.8	353.7	353.6	353.5	353.4	353.3	17.5°
130°	389.7	389.7	389.7	389.7	389.7	389.5	389.3	389.1	388.9	388.7	388.5	20°
132.5°	424.3	424.1	423.9	423.7	423.5	423.5	423.5	423.5	423.5	423.5	423.5	22.5°
135°	457.7	457.6	457.5	457.4	457.3	457.6	457.9	458.2	458.5	458.8	459.1	25°
137.5°	486.5	486.6	486.7	486.8	486.9	487.4	487.9	488.5	489.0	489.5	490.0	27.5°
140°	514.7	515.0	515.2	515.4	515.6	516.1	516.6	517.1	517.6	518.1	518.6	30°
142.5°	545.2	545.2	545.2	545.2	545.2	545.3	545.4	545.5	545.6	545.7	545.8	32.5°
145°	574.3	574.2	574.1	574.0	573.9	573.6	573.3	573.0	572.6	572.3	572.0	35°
147.5°	599.0	599.1	599.2	599.3	599.4	599.1	598.8	598.5	598.2	597.9	597.6	37.5°
150°	615.6	615.9	616.2	616.5	616.8	617.1	617.5	617.8	618.1	618.4	618.7	40°
152.5°	630.5	631.0	631.4	631.8	632.2	632.7	633.2	633.7	634.2	634.7	635.3	42.5°
155°	648.6	649.1	649.6	650.1	650.6	650.8	651.0	651.2	651.4	651.6	651.8	45°
157.5°	664.1	664.3	664.5	664.7	664.9	664.9	664.9	664.9	664.9	664.9	664.9	47.5°
160°	677.4	677.1	676.8	676.5	676.2	676.1	676.0	675.9	675.8	675.7	675.6	50°
162.5°	685.8	685.7	685.6	685.5	685.4	685.2	685.0	684.8	684.6	684.4	684.1	52.5°
165°	694.4	694.7	695.0	695.3	695.6	695.4	695.2	695.0	694.8	694.6	694.4	55°
167.5°	702.2	702.6	703.0	703.4	703.8	703.8	703.8	703.8	703.8	703.8	703.8	57.5°
170°	707.9	708.4	708.9	709.4	709.9	710.1	710.3	710.5	710.7	711.0	711.2	60°
172.5°	709.1	709.3	709.5	709.7	709.9	710.1	710.3	710.5	710.7	711.0	711.2	62.5°
175°	711.6	711.7	711.8	711.9	712.0	711.8	711.6	711.4	711.2	711.0	710.7	65°
177.5°	716.3	716.5	716.7	716.9	717.1	716.8	716.5	716.2	715.9	715.6	715.2	66°
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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REPORT NUMBER: P
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	82°	
1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	1593.7	110°	119.6
1599.1	1596.3	1597.2	1593.7	1592.7	1594.6	1595.5	1595.5	1592.7	1576.6	1557.6	112.5°	151.0
1575.7	1570.3	1569.4	1566.6	1562.1	1567.6	1564.9	1560.4	1555.0	1536.1	1499.2	115°	181.7
1532.5	1528.9	1524.4	1520.8	1518.2	1516.3	1515.4	1510.9	1501.1	1466.0	1403.9	117.5°	213.4
1491.2	1486.7	1481.2	1473.2	1469.6	1464.1	1464.1	1453.4	1446.1	1402.1	1310.4	120°	249.2
1450.6	1442.6	1439.9	1434.5	1424.6	1420.1	1413.8	1403.0	1392.2	1339.1	1218.6	122.5°	282.9
1420.1	1412.0	1400.3	1396.7	1385.9	1376.0	1367.9	1353.6	1341.8	1271.7	1122.4	125°	317.1
1386.8	1380.5	1367.9	1359.8	1348.1	1336.5	1323.0	1305.0	1296.9	1207.8	1030.6	127.5°	353.2
1359.8	1345.5	1331.1	1323.9	1309.5	1296.0	1282.5	1260.9	1244.7	1144.9	933.5	130°	388.3
1328.4	1315.7	1300.5	1287.9	1268.0	1252.8	1237.6	1215.1	1195.2	1081.1	835.5	132.5°	423.5
1306.8	1288.8	1272.6	1258.2	1235.7	1217.7	1196.1	1171.9	1152.0	1019.9	727.6	135°	459.4
1294.1	1276.2	1255.5	1237.6	1211.5	1190.7	1167.4	1140.4	1115.2	970.4	625.9	137.5°	490.5
1290.6	1269.0	1247.4	1224.9	1198.0	1171.9	1144.0	1117.0	1084.6	922.7	515.4	140°	519.1
1301.4	1275.3	1251.0	1224.1	1192.6	1162.9	1135.0	1099.9	1067.6	881.4	406.5	142.5°	545.9
1331.1	1299.6	1271.7	1242.1	1206.1	1173.6	1140.4	1100.8	1064.9	852.6	311.2	145°	571.7
1377.8	1348.1	1315.7	1286.1	1244.7	1208.7	1171.9	1129.6	1086.5	840.9	234.8	147.5°	597.3
1472.2	1432.6	1399.4	1367.9	1320.2	1283.4	1241.1	1189.9	1141.3	851.7	196.1	150°	619.0
1604.5	1555.0	1524.4	1496.6	1437.1	1396.7	1348.1	1289.6	1234.8	882.3	172.7	152.5°	635.8
1787.0	1749.2	1694.4	1651.2	1591.0	1546.0	1492.1	1421.9	1360.7	925.5	161.0	155°	652.0
2015.4	1966.0	1912.0	1868.0	1802.3	1724.1	1667.4	1582.9	1513.7	992.9	155.6	157.5°	664.9
2295.2	2235.8	2162.9	2126.1	2035.3	1974.1	1898.6	1807.8	1719.6	1097.2	158.3	160°	675.5
2599.1	2535.3	2478.6	2408.4	2325.8	2257.3	2185.4	2089.2	1978.6	1295.1	169.1	162.5°	683.9
2920.2	2878.9	2824.9	2734.0	2689.1	2602.8	2511.0	2404.9	2324.9	1552.3	195.2	165°	694.2
3387.9	3342.9	3336.7	3247.6	3179.2	3101.0	3029.1	2940.9	2846.5	2009.2	256.4	167.5°	703.8
4107.4	4060.6	4007.5	3938.3	3857.3	3760.3	3671.2	3552.5	3447.2	2466.9	285.1	170°	711.4
4533.7	4447.4	4352.0	4246.8	4128.9	4008.4	3888.8	3736.8	3583.9	2494.9	257.2	172.5°	711.4
4497.7	4390.7	4269.3	4126.3	4002.2	3853.8	3725.2	3529.1	3389.6	2221.4	209.5	175°	710.5
4364.6	4218.0	4103.8	3972.4	3816.8	3683.7	3548.0	3354.6	3195.4	2037.0	191.6	177.5°	714.9
4023.8	3898.8	3740.4	3614.5	3499.4	3340.2	3212.5	3031.7	2922.1	1766.3	171.8	180°	716.1
3216.2	3043.5	2909.5	2811.4	2680.9	2537.1	2423.8	2271.8	2174.7	1169.1	148.4		
1873.3	1830.2	1680.0	1595.5	1516.3	1399.4	1309.5	1236.6	1108.9	566.6	131.3		
577.4	536.9	531.5	451.4	477.5	408.3	397.5	361.5	361.5	217.7	103.4		
184.3	180.8	173.6	163.7	160.1	160.1	155.6	154.7	147.5	116.9	77.3		
130.4	127.7	125.0	122.3	120.5	121.4	117.8	116.0	114.3	84.5	61.2		
89.9	87.3	81.8	81.8	80.0	79.2	80.0	76.4	75.6	59.3	51.2		
61.2	60.3	59.3	58.4	57.6	56.7	55.8	53.1	51.2	41.3	36.0		
40.5	34.2	33.2	28.7	27.9	27.0	25.2	27.0	29.7	29.7	23.4		
16.8	15.7	16.4	16.2	14.3	15.2	15.2	13.5	13.5	16.2	17.3		
6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1		
7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2		
8.5	8.4	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9.2		
20.7	20.3	19.8	19.4	19.4	19.4	19.4	19.4	19.4	19.4	23.5		
40.8	40.5	40.2	39.9	39.7	39.5	39.3	39.1	38.9	39.9	43.0		
63.6	63.2	62.8	62.4	62.4	62.4	62.4	62.4	62.4	62.4	66.5		
89.9	89.6	89.3	89.0	88.8	88.6	88.4	88.2	88.0	89.0	92.1		

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TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
119.3	119.0	118.7	118.9	119.1	119.3	119.5	119.7	118.7	121.7	0°	1593.7	1593.7
150.8	150.6	150.4	150.4	150.4	150.4	150.4	150.4	150.4	152.4	2.5°	1541.5	1527.2
181.5	181.3	181.1	181.3	181.5	181.7	181.9	182.1	181.1	183.1	5°	1459.6	1427.3
213.2	213.0	212.8	213.0	213.2	213.4	213.6	213.8	212.8	214.8	7.5°	1349.1	1286.1
249.0	248.8	248.6	248.6	248.6	248.6	248.6	248.6	248.6	250.6	10°	1222.2	1131.4
282.7	282.5	282.3	282.5	282.7	282.9	283.2	283.4	282.3	284.4	12.5°	1090.9	974.9
317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	15°	968.6	814.8
353.1	353.0	352.9	353.3	353.7	354.1	354.6	355.0	352.9	353.9	17.5°	840.0	650.2
388.1	387.9	387.7	387.9	388.1	388.3	388.5	388.7	387.7	389.7	20°	716.8	491.0
423.5	423.5	423.5	423.7	423.9	424.1	424.3	424.5	423.5	423.5	22.5°	577.4	344.4
459.7	460.0	460.3	460.5	460.7	460.9	461.1	461.4	460.3	457.3	25°	423.6	250.0
491.0	491.5	492.0	492.2	492.4	492.7	492.9	493.1	492.0	486.9	27.5°	302.2	199.7
519.7	520.2	520.7	521.1	521.5	521.9	522.3	522.7	520.7	515.6	30°	225.8	168.2
546.1	546.2	546.3	546.7	547.1	547.5	547.9	548.3	546.3	545.2	32.5°	180.8	145.7
571.4	571.1	570.8	571.2	571.6	572.0	572.4	572.9	570.8	573.9	35°	153.7	132.2
597.0	596.7	596.4	596.8	597.2	597.6	598.0	598.4	596.4	599.4	37.5°	137.6	123.2
619.3	619.6	619.9	620.7	621.5	622.4	623.2	624.0	619.9	616.8	40°	128.6	118.8
636.3	636.8	637.3	638.3	639.3	640.4	641.4	642.4	637.3	632.2	42.5°	123.2	114.3
652.2	652.4	652.6	653.3	653.9	654.5	655.1	655.7	652.6	650.6	45°	120.5	111.5
664.9	664.9	664.9	665.9	667.0	668.0	669.0	670.0	664.9	664.9	47.5°	118.8	107.9
675.4	675.2	675.1	676.4	677.6	678.8	680.1	681.3	675.1	676.2	50°	116.9	107.9
683.7	683.5	683.3	684.6	685.8	687.0	688.2	689.5	683.3	685.4	52.5°	117.8	109.8
694.0	693.8	693.6	694.4	695.2	696.0	696.8	697.7	693.6	695.6	55°	122.3	109.8
703.8	703.8	703.8	705.0	706.2	707.5	708.7	709.9	703.8	703.8	57.5°	129.5	109.8
711.6	711.8	712.0	713.0	714.0	715.0	716.1	717.1	712.0	709.9	60°	134.9	111.5
711.6	711.8	712.0	713.0	714.0	715.0	716.1	717.1	712.0	709.9	62.5°	136.7	115.1
710.3	710.1	709.9	711.0	712.0	713.0	714.0	715.0	709.9	712.0	65°	134.9	116.9
714.6	714.3	714.0	714.8	715.7	716.5	717.3	718.1	714.0	717.1	66°	133.1	116.9
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	130.4	115.1
										70°	124.1	107.9
										72.5°	111.5	97.2
										75°	95.3	78.3
										77.5°	77.3	62.9
										80°	57.6	47.7
										82.5°	42.2	36.8
										85°	29.7	26.1
										87.5°	18.0	16.2
										90°	13.7	11.7
										92.5°	7.2	7.2
										95°	8.2	7.2
										97.5°	10.2	12.3
										100°	26.6	29.7
										102.5°	48.1	51.1
										105°	71.6	73.7
										107.5°	96.2	97.2



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tinued):

135°	145°	155°	165°	175°	180°
1593.7	1593.7	1593.7	1593.7	1593.7	1593.7
1517.2	1516.3	1493.8	1489.3	1474.1	1482.2
1388.7	1373.3	1332.8	1324.7	1307.6	1303.1
1234.8	1192.6	1160.1	1124.2	1090.1	1107.1
1055.0	983.9	912.9	866.1	847.2	840.9
884.0	756.4	667.4	575.6	543.2	555.0
677.2	531.5	412.8	359.8	329.2	323.8
477.5	340.8	286.0	272.5	266.2	266.2
323.8	259.9	239.3	232.9	232.9	233.8
246.4	218.5	209.5	210.4	214.0	214.9
204.2	193.3	188.8	195.2	202.3	203.3
176.3	173.6	174.5	182.6	189.8	190.7
154.7	157.4	161.0	168.2	174.5	176.3
139.4	143.9	146.6	151.1	154.7	155.6
128.6	134.0	133.1	135.8	138.5	139.4
122.3	125.0	122.3	124.1	124.1	125.9
116.9	117.8	113.3	114.3	116.0	116.0
111.5	110.6	106.1	107.9	110.6	111.5
106.1	104.3	100.8	104.3	108.8	109.8
101.6	99.8	98.0	102.5	107.9	108.8
99.8	98.0	96.3	102.5	107.9	108.8
99.8	98.0	96.3	100.8	106.1	107.0
100.8	98.9	95.3	99.8	103.4	104.3
101.6	99.8	93.5	96.3	98.0	98.9
101.6	98.0	91.8	92.7	92.7	93.5
99.8	95.3	88.2	88.2	87.3	87.3
99.8	91.8	84.5	82.8	80.9	80.9
98.9	90.8	83.7	80.9	78.3	78.3
97.2	89.0	81.8	78.3	75.6	75.6
90.8	85.4	77.3	73.8	71.1	70.2
80.9	78.3	71.9	69.3	66.6	65.7
68.3	69.3	65.7	63.8	61.2	60.3
57.6	59.3	57.6	56.7	54.8	54.0
45.8	49.5	47.7	47.7	48.6	46.7
35.1	39.6	37.7	39.6	41.3	38.7
24.2	28.7	28.7	29.7	30.6	28.7
15.2	18.9	18.0	18.9	18.9	18.0
10.7	14.5	11.8	12.6	9.6	8.7
6.1	6.1	6.1	5.1	4.1	4.1
7.2	7.2	7.2	6.1	5.1	5.1
9.2	9.2	8.2	8.2	7.2	7.2
21.5	12.3	10.2	9.2	8.2	8.2
40.9	27.6	18.4	13.3	11.3	11.3
64.4	49.1	36.8	27.6	22.5	21.5
90.0	74.7	59.3	50.1	43.0	41.9

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
110°	123.8	122.8	116.6
112.5°	153.4	151.4	146.3
115°	186.2	183.1	178.0
117.5°	219.9	215.8	209.7
120°	255.7	251.6	248.6
122.5°	289.5	285.4	283.4
125°	322.2	320.2	317.1
127.5°	353.9	352.9	347.8
130°	389.7	385.7	380.5
132.5°	425.5	420.4	414.3
135°	458.3	453.2	447.0
137.5°	485.9	483.9	478.7
140°	513.5	511.5	508.4
142.5°	545.2	539.1	537.0
145°	574.9	568.8	563.6
147.5°	598.4	593.3	588.2
150°	613.8	610.7	606.6
152.5°	628.1	625.0	624.0
155°	645.5	640.4	642.4
157.5°	662.9	658.8	659.8
160°	679.2	673.1	670.0
162.5°	686.4	682.3	678.2
165°	692.5	687.4	688.4
167.5°	699.7	693.6	700.7
170°	704.8	701.7	706.9
172.5°	707.9	704.8	705.8
175°	711.0	705.8	705.8
177.5°	715.0	709.9	711.0
180°	716.1	716.1	716.1

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145°	155°	165°	175°	180°
104.3	89.0	75.7	69.6	67.5
137.1	123.8	108.4	101.3	101.3
171.9	162.6	150.4	142.2	143.2
206.6	201.5	193.3	188.2	188.2
242.4	238.3	231.2	228.1	230.2
277.2	273.1	267.0	266.0	269.0
312.0	305.9	302.8	300.7	304.8
346.8	340.6	336.6	336.6	337.6
378.5	374.4	370.3	369.3	371.3
413.3	410.2	402.0	403.0	405.1
445.0	441.9	435.8	435.8	438.8
474.6	470.6	469.5	467.5	470.6
502.3	500.2	498.2	496.1	499.2
533.0	529.9	528.9	526.8	529.9
562.6	559.6	556.5	558.5	562.6
587.2	587.2	584.1	585.1	588.2
606.6	606.6	606.6	605.6	608.7
624.0	623.0	622.0	622.0	625.0
644.5	641.4	639.3	639.3	643.4
660.8	658.8	657.8	657.8	660.8
670.0	671.1	674.1	675.1	678.2
676.2	680.3	684.4	684.4	688.4
688.4	691.5	691.5	693.6	696.6
703.8	701.7	699.7	702.8	705.8
708.9	707.9	707.9	711.0	714.0
705.8	708.9	711.0	713.0	715.0
706.9	711.0	713.0	714.0	716.1
713.0	715.0	716.1	721.2	723.2
716.1	716.1	716.1	716.1	716.1

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