

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: P271735

Luminaire Tested: **IST-AF-1000-LED-E1-SLL-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)-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-SLL-7027-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, WITH
UPLIGHT GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6240.7 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - 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

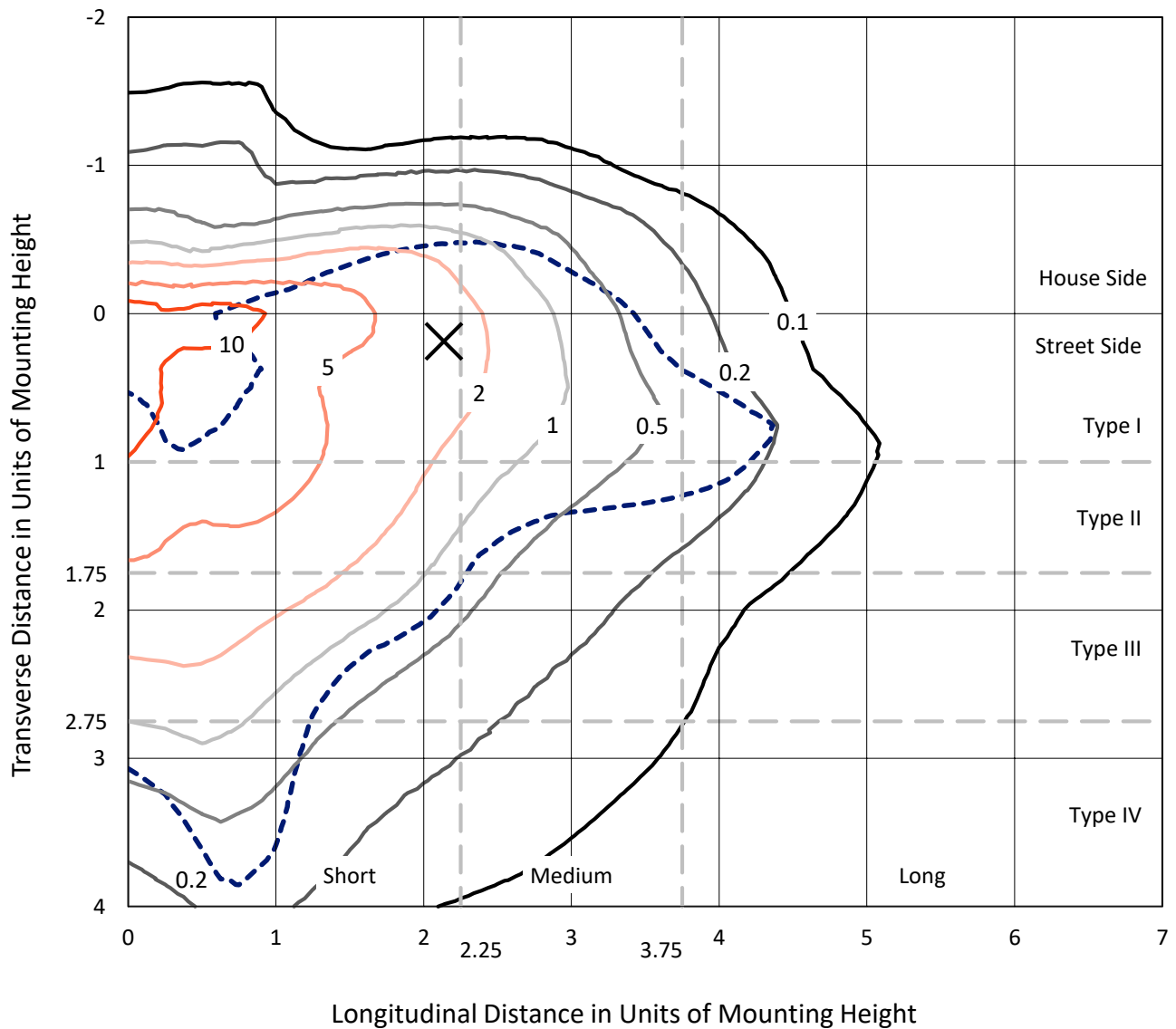


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Iso-Footcandle Lines of Horizontal Illumination

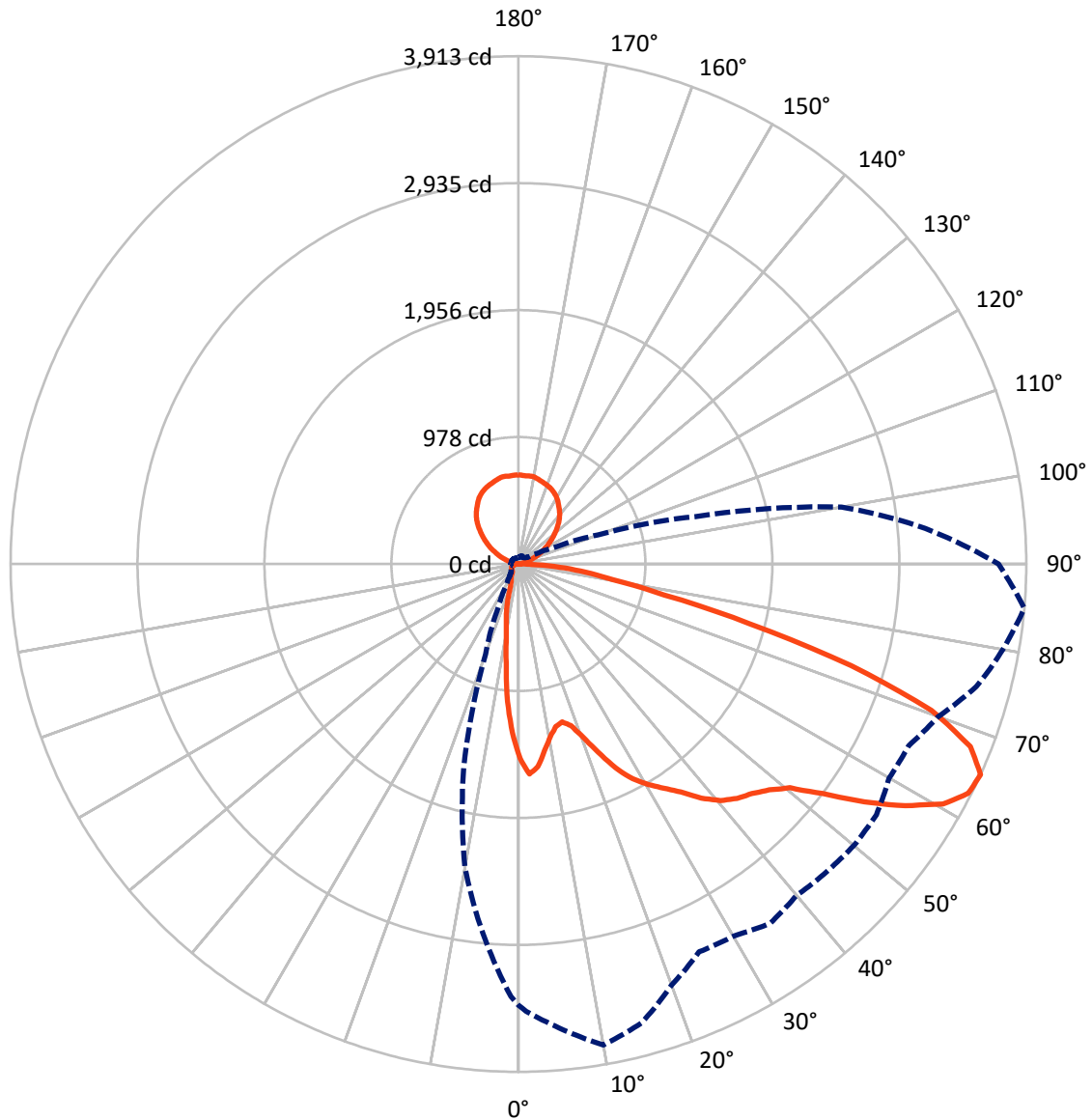
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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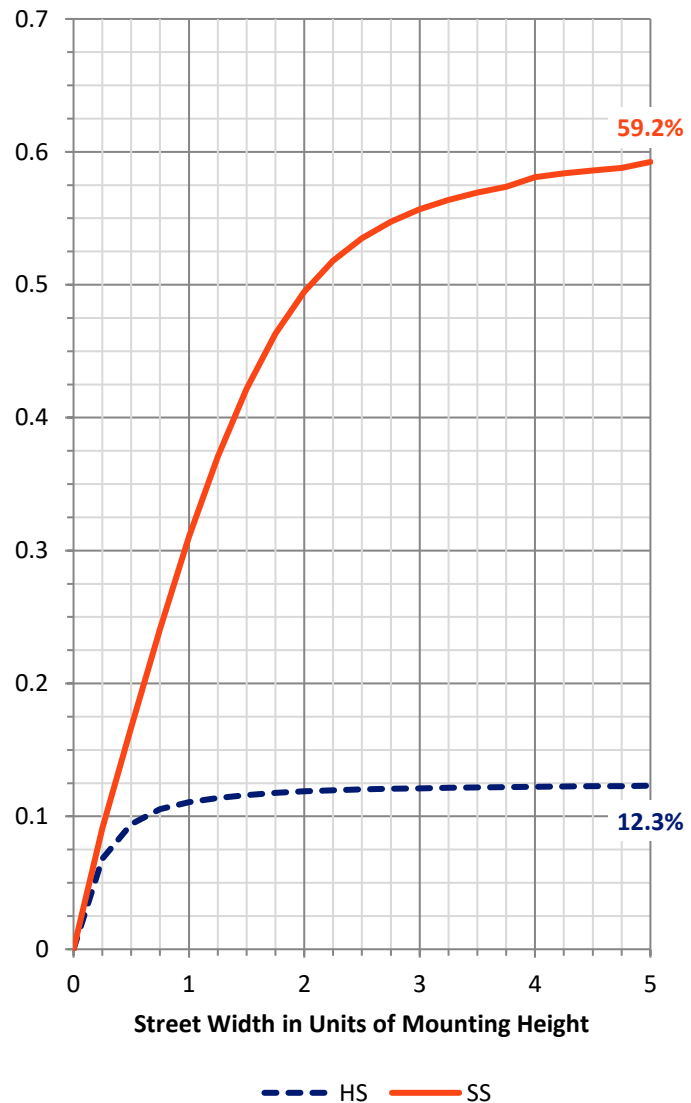
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	778.7	851.5	1630.2
	% Fixture	12.5	13.6	26.1
Street Side	Lumens	3758.8	851.7	4610.5
	% Fixture	60.2	13.6	73.9
Total	Lumens	4537.5	1703.2	6240.7
	% Fixture	72.7	27.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	1.8
10°-20°	213.6	3.4
20°-30°	304.6	4.9
30°-40°	442.0	7.1
40°-50°	632.2	10.1
50°-60°	970.7	15.6
60°-70°	1123.6	18.0
70°-80°	573.2	9.2
80°-90°	166.4	2.7
90°-100°	9.3	0.1
100°-110°	56.3	0.9
110°-120°	163.0	2.6
120°-130°	268.1	4.3
130°-140°	330.6	5.3
140°-150°	338.2	5.4
150°-160°	284.9	4.6
160°-170°	187.6	3.0
170°-180°	65.0	1.0
0°-90°	4537.5	72.7
0°-180°	6240.7	100.0

Coefficient of Utilization



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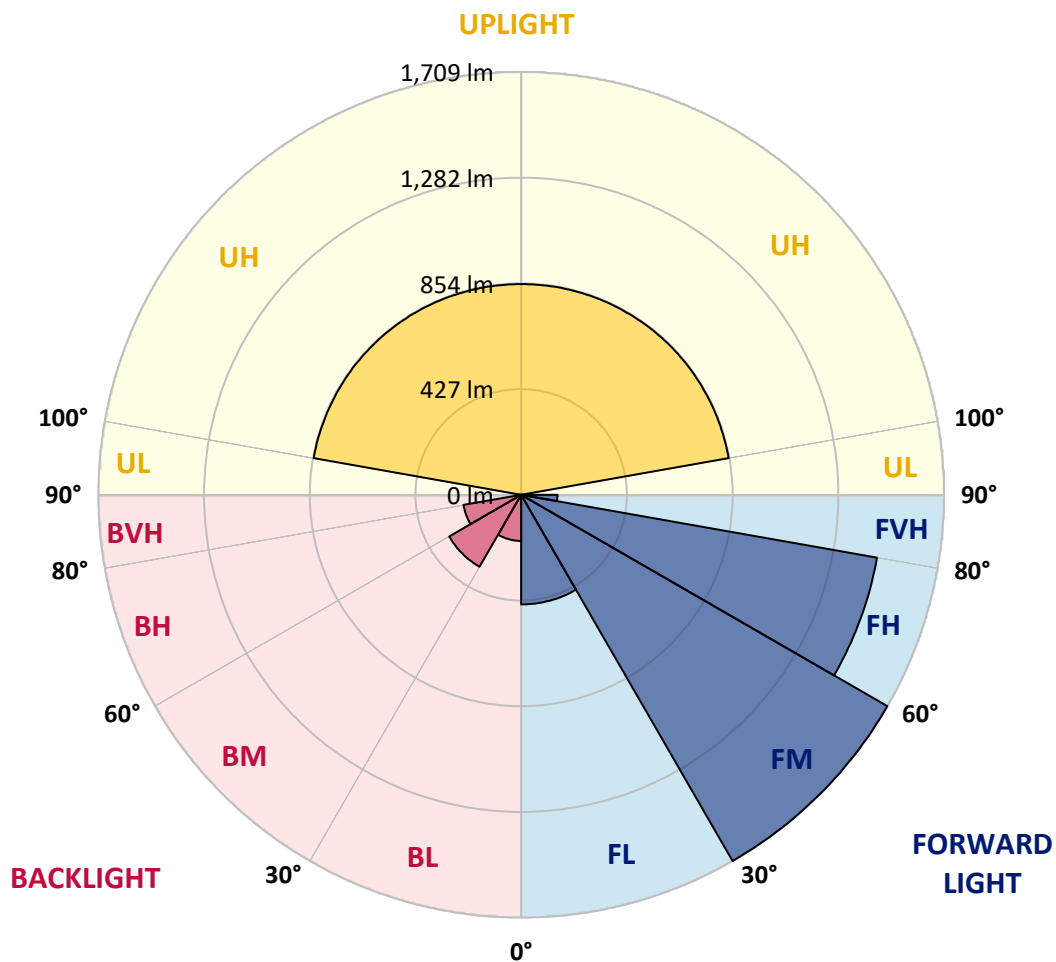
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.1	7.1			
FM (30°-60°)	1708.9	27.4			
FH (60°-80°)	1460.1	23.4			G1/1800
FVH (80°-90°)	146.7	2.4			G2/225
BL (0°-30°)	186.3	3.0	B1/500		
BM (30°-60°)	336.0	5.4	B1/1000		
BH (60°-80°)	236.7	3.8	B1/500		G1/500
BVH (80°-90°)	19.7	0.3			G1/100
UL (90°-100°)	9.3	0.1		U1/10	
UH (100°-180°)	851.5	13.6		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7
2.5°	1551.5	1553.0	1574.3	1594.9	1620.9	1617.1	1638.5	1654.5	1669.1	1671.3	1682.0
5°	1456.7	1472.1	1520.1	1561.3	1613.3	1653.7	1697.3	1731.7	1756.8	1780.5	1783.6
7.5°	1323.9	1335.4	1391.0	1456.1	1530.8	1584.3	1650.0	1707.2	1747.7	1785.8	1794.3
10°	1210.2	1220.9	1282.7	1366.6	1432.3	1501.8	1569.8	1616.3	1669.1	1701.9	1717.9
12.5°	1155.2	1168.2	1226.9	1303.4	1370.5	1437.6	1488.9	1529.3	1559.1	1565.2	1569.8
15°	1176.6	1183.4	1248.4	1316.3	1369.7	1403.3	1417.1	1441.5	1439.3	1451.4	1453.6
17.5°	1262.8	1259.7	1328.5	1375.8	1401.7	1397.9	1376.7	1363.5	1340.7	1333.8	1353.7
20°	1411.0	1421.7	1465.9	1494.9	1468.2	1406.4	1347.5	1307.1	1275.1	1264.4	1262.1
22.5°	1584.3	1598.1	1646.1	1630.9	1562.9	1449.9	1343.0	1278.1	1238.4	1226.9	1222.3
25°	1766.0	1775.1	1799.6	1747.7	1652.3	1505.6	1375.0	1284.1	1231.6	1214.7	1212.4
27.5°	1912.6	1921.7	1910.2	1850.7	1712.5	1568.2	1419.3	1311.6	1243.0	1226.2	1218.6
30°	2032.4	2037.1	1998.9	1924.8	1787.4	1637.7	1477.4	1359.8	1279.6	1241.5	1236.1
32.5°	2166.8	2163.7	2089.6	1987.4	1850.7	1700.3	1543.7	1414.0	1314.8	1268.1	1259.7
35°	2314.1	2287.4	2156.9	2049.2	1894.3	1748.4	1604.1	1471.2	1371.3	1309.4	1298.7
37.5°	2445.5	2418.0	2243.2	2098.1	1937.7	1785.8	1651.4	1545.4	1457.5	1401.1	1396.4
40°	2547.9	2514.2	2308.8	2130.9	1959.1	1813.3	1707.2	1638.5	1580.5	1534.7	1534.7
42.5°	2630.2	2593.6	2373.0	2169.0	1978.2	1855.3	1800.3	1776.7	1764.5	1739.3	1748.4
45°	2709.6	2672.3	2425.6	2193.5	2021.0	1936.9	1944.7	1965.2	2002.0	1987.4	2000.3
47.5°	2785.3	2748.6	2485.3	2232.5	2103.4	2083.6	2123.3	2205.8	2277.6	2334.1	2373.7
50°	2911.9	2868.5	2592.1	2347.0	2233.3	2243.2	2357.7	2519.6	2636.3	2688.3	2685.2
52.5°	3152.5	3090.7	2821.8	2560.8	2418.8	2473.8	2608.9	2812.8	2965.5	3005.9	3021.9
55°	3446.4	3397.6	3153.9	2844.0	2741.0	2760.0	2928.0	3158.6	3276.2	3318.2	3331.9
57.5°	3619.0	3606.0	3453.4	3147.1	3047.1	3039.4	3258.6	3447.2	3548.8	3588.5	3576.2
59°	3659.4	3663.3	3576.2	3361.6	3224.3	3207.5	3430.4	3605.3	3690.0	3702.3	3696.1
60°	3655.7	3677.0	3666.3	3479.2	3336.5	3315.1	3502.9	3669.4	3740.5	3759.5	3738.0
62.5°	3577.1	3613.6	3715.2	3695.4	3590.7	3481.5	3570.1	3690.8	3736.6	3718.3	3702.3
65°	3398.4	3446.4	3587.7	3763.3	3662.5	3451.7	3296.8	3310.5	3380.1	3334.1	3356.3
67.5°	3089.9	3144.9	3219.6	3618.2	3471.6	3118.2	2851.7	2721.1	2688.3	2732.6	2802.8
70°	2513.5	2549.3	2738.7	3302.1	3048.7	2563.0	2228.7	2054.5	1996.6	2098.9	2170.7
72.5°	1772.9	1826.3	2075.9	2732.6	2508.1	2053.1	1686.6	1526.2	1468.2	1472.8	1535.5
75°	1078.9	1151.4	1450.7	2160.7	1976.7	1572.8	1284.9	1169.8	1152.2	1142.1	1131.5
77.5°	711.5	739.0	953.6	1491.1	1333.1	1118.5	964.3	1011.6	1064.3	1075.8	1089.6
80°	482.5	490.9	618.4	1046.0	878.0	826.1	779.5	891.0	991.0	1009.3	999.5
82.5°	297.0	322.2	431.4	705.5	700.0	675.6	616.1	703.2	769.6	781.1	801.6
85°	103.0	107.7	264.9	623.1	711.5	719.3	507.7	400.8	450.5	442.1	317.6
87.5°	44.3	49.7	82.5	416.8	481.9	398.6	232.1	206.1	158.8	89.3	86.2
90°	7.9	7.9	7.2	9.7	18.3	15.0	14.7	10.2	7.8	7.4	6.8
92.5°	4.0	4.0	4.0	4.4	4.9	5.4	5.9	5.9	5.9	5.9	5.9
95°	4.9	4.9	4.9	5.4	5.9	6.4	6.8	6.8	6.8	6.8	6.8
97.5°	6.8	6.8	6.8	7.4	7.8	7.8	7.8	8.4	8.8	8.8	8.8
100°	7.8	7.8	7.8	8.4	8.8	9.3	9.8	10.8	11.8	16.2	20.6
102.5°	10.8	10.8	10.8	11.8	12.8	15.2	17.7	22.1	26.5	32.9	39.3
105°	20.6	20.8	21.6	24.1	26.5	30.9	35.3	41.2	47.1	54.4	61.8
107.5°	40.2	40.4	41.2	44.6	48.1	52.6	57.0	64.3	71.7	79.1	86.3



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	64.8	65.1	66.7	69.7	72.7	79.1	85.4	92.7	100.1	106.0	111.9
112.5°	97.2	97.2	97.2	100.6	104.0	111.4	118.8	125.1	131.5	135.9	140.3
115°	137.4	137.2	136.5	140.3	144.3	150.2	156.0	160.4	164.9	167.8	170.8
117.5°	180.6	180.6	180.6	183.1	185.5	189.5	193.3	195.8	198.3	199.7	201.2
120°	220.8	220.4	218.8	220.4	221.8	225.3	228.7	230.7	232.6	235.5	238.5
122.5°	258.2	257.5	255.2	255.7	256.2	259.1	262.0	264.0	266.0	269.0	271.8
125°	292.5	291.7	288.5	289.5	290.5	291.9	293.5	296.4	299.3	301.8	304.3
127.5°	323.9	323.7	322.9	322.9	322.9	324.8	326.8	329.8	332.7	333.2	333.7
130°	356.3	355.9	354.3	354.8	355.3	357.3	359.2	361.2	363.2	364.2	365.1
132.5°	388.7	388.2	386.7	386.2	385.7	389.7	393.5	395.1	396.5	397.1	397.5
135°	421.0	420.5	418.1	418.1	418.1	421.0	424.0	425.4	427.0	428.0	428.9
137.5°	451.5	450.9	448.5	449.5	450.5	450.9	451.5	453.5	455.4	457.3	459.3
140°	479.0	478.3	476.0	477.0	478.0	479.0	480.0	481.0	481.9	484.8	487.8
142.5°	508.4	507.8	505.5	506.5	507.5	507.9	508.4	509.9	511.3	513.3	515.3
145°	539.8	539.1	535.9	534.9	534.0	535.4	536.8	538.4	539.8	540.3	540.8
147.5°	564.3	563.8	561.4	560.9	560.5	561.9	563.3	563.3	563.3	563.9	564.3
150°	584.0	583.4	581.0	581.6	582.0	582.0	582.0	582.0	582.0	582.0	582.0
152.5°	599.7	599.1	596.7	596.7	596.7	597.2	597.7	598.2	598.7	598.7	598.7
155°	617.3	616.6	613.5	613.5	613.5	614.4	615.4	616.9	618.3	617.3	616.3
157.5°	634.0	633.5	631.1	631.1	631.1	631.6	632.0	633.0	634.0	633.6	633.0
160°	650.7	650.1	647.8	647.3	646.8	645.3	643.8	643.4	642.8	642.8	642.8
162.5°	660.5	659.7	656.6	656.6	656.6	654.7	652.7	650.7	648.8	649.7	650.7
165°	668.4	667.8	665.5	664.5	663.5	663.5	663.5	662.1	660.5	660.5	660.5
167.5°	677.2	676.6	674.3	672.8	671.3	672.3	673.3	674.3	675.3	673.8	672.3
170°	685.0	684.5	682.2	680.6	679.2	679.2	679.2	679.7	680.2	679.2	678.2
172.5°	686.0	685.7	684.1	683.1	682.2	681.2	680.2	678.7	677.2	677.2	677.2
175°	687.0	686.7	685.0	684.6	684.1	683.1	682.2	680.2	678.2	677.7	677.2
177.5°	693.9	693.5	692.0	689.4	687.0	686.6	686.0	685.0	684.1	683.1	682.2
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7
2.5°	1679.7	1669.8	1675.9	1667.4	1653.7	1644.5	1633.8	1620.1	1604.1	1582.7	1561.3
5°	1776.7	1769.0	1750.0	1722.5	1684.3	1652.3	1614.1	1569.0	1531.6	1483.6	1438.5
7.5°	1785.0	1772.9	1737.7	1686.6	1627.8	1568.2	1523.2	1449.9	1402.5	1326.2	1275.1
10°	1708.8	1709.5	1674.4	1626.2	1565.2	1494.9	1430.0	1349.8	1280.4	1202.5	1117.0
12.5°	1596.5	1607.2	1608.7	1565.9	1506.4	1432.3	1359.8	1283.5	1197.2	1114.0	1035.3
15°	1469.0	1499.5	1501.8	1491.1	1459.8	1397.2	1330.7	1262.1	1174.3	1083.4	994.9
17.5°	1355.3	1384.2	1411.0	1435.4	1436.9	1407.1	1366.6	1307.9	1220.1	1113.2	1009.3
20°	1268.9	1300.3	1346.0	1391.0	1440.7	1456.1	1459.0	1421.7	1327.8	1197.2	1056.7
22.5°	1233.0	1269.8	1316.3	1401.1	1488.9	1543.0	1573.7	1573.7	1475.1	1322.3	1134.6
25°	1225.4	1255.2	1326.2	1431.6	1549.1	1643.8	1701.9	1740.7	1669.8	1483.6	1230.8
27.5°	1230.8	1271.2	1359.0	1466.8	1589.6	1711.0	1806.4	1874.4	1808.0	1593.4	1320.1
30°	1252.1	1312.4	1403.3	1514.8	1641.6	1769.8	1885.0	1971.4	1922.6	1693.5	1404.8
32.5°	1289.6	1362.9	1465.9	1566.7	1692.7	1831.6	1945.4	2059.2	2023.3	1762.9	1449.9
35°	1345.3	1431.6	1525.5	1627.0	1747.7	1886.6	2008.0	2156.9	2144.0	1850.0	1494.9
37.5°	1435.4	1524.0	1610.2	1697.3	1811.8	1947.0	2098.1	2288.3	2277.6	1979.0	1567.5
40°	1594.2	1646.1	1710.2	1766.0	1873.7	2002.6	2164.6	2396.6	2434.8	2089.6	1631.6
42.5°	1791.2	1821.8	1840.1	1855.3	1910.2	2031.7	2212.6	2469.1	2531.7	2172.1	1681.2
45°	2042.4	2033.2	1996.6	1961.4	1955.3	2048.5	2234.7	2522.6	2608.0	2252.3	1731.7
47.5°	2339.4	2319.5	2219.5	2104.2	2040.1	2078.9	2273.7	2601.2	2702.0	2357.7	1794.3
50°	2682.2	2635.5	2472.2	2277.6	2159.2	2165.3	2372.2	2710.5	2825.7	2495.1	1911.1
52.5°	2999.8	2916.5	2721.9	2464.6	2295.1	2315.7	2549.3	2936.4	3079.2	2722.7	2107.2
55°	3280.0	3173.2	2963.1	2681.4	2527.9	2563.9	2832.5	3235.8	3370.9	2993.7	2305.8
57.5°	3518.2	3404.5	3197.6	2949.3	2758.5	2788.2	3085.3	3513.6	3604.4	3237.2	2495.9
59°	3626.5	3514.3	3323.5	3094.4	2915.8	2978.4	3263.9	3651.8	3690.8	3331.2	2568.4
60°	3679.3	3567.1	3399.1	3175.4	3011.9	3094.4	3358.7	3756.4	3722.8	3344.9	2595.9
62.5°	3675.4	3596.8	3486.1	3333.4	3303.7	3441.0	3666.3	3890.8	3744.9	3305.2	2613.5
65°	3373.9	3367.0	3298.3	3315.8	3440.3	3652.6	3790.8	3912.9	3699.1	3147.1	2528.7
67.5°	2814.3	2842.5	2851.7	2959.4	3250.2	3610.6	3732.0	3755.6	3499.9	2808.9	2265.3
70°	2172.9	2110.3	2213.3	2403.4	2822.7	3286.9	3459.5	3377.0	3092.1	2352.3	1850.0
72.5°	1538.4	1556.8	1704.9	1951.5	2378.4	2859.3	3129.5	2679.8	2326.4	1760.6	1311.6
75°	1157.5	1243.7	1315.5	1531.6	1931.6	2449.3	2672.3	1842.3	1515.5	1214.0	858.2
77.5°	1109.4	1102.5	1047.5	1093.3	1392.6	1715.7	1906.5	1149.8	949.0	794.0	518.4
80°	1025.3	966.6	866.5	822.3	877.3	1101.7	1210.2	739.0	631.4	555.1	292.4
82.5°	795.6	755.8	650.6	647.5	731.4	782.6	832.2	523.7	474.9	449.7	179.4
85°	504.7	518.4	531.3	648.1	811.6	820.7	647.5	319.2	250.4	352.8	114.5
87.5°	149.7	243.6	295.5	501.6	731.4	733.7	487.2	104.7	94.0	110.0	66.5
90°	6.8	6.8	7.8	8.8	8.8	8.8	8.6	6.8	6.8	6.8	7.8
92.5°	6.4	6.8	6.8	6.8	6.4	5.9	5.9	5.9	5.9	5.9	5.9
95°	6.8	6.8	7.4	7.8	7.4	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	10.3	11.8	10.8	9.8	9.3	8.8	8.4	7.8	7.8	7.8	8.4
100°	24.5	28.5	26.9	25.5	24.1	22.5	20.6	18.7	18.7	18.7	20.6
102.5°	44.2	49.0	47.6	46.2	43.7	41.2	39.7	38.3	37.3	38.3	39.7
105°	66.3	70.7	69.7	68.7	66.3	63.8	61.8	59.8	59.8	59.8	61.8
107.5°	89.8	93.2	92.7	92.3	90.3	88.3	86.9	85.4	84.4	85.4	86.9

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CATALOG NUMBER: IST-AF-1000-LED-E1-SLL-7027-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	114.8	117.8	118.3	118.8	117.8	116.8	115.3	113.8	114.8	113.8	115.3
112.5°	142.8	145.3	146.2	147.2	146.7	146.2	145.3	144.3	144.3	144.3	145.3
115°	173.2	175.7	177.1	178.7	177.1	175.7	174.7	173.7	174.7	173.7	174.7
117.5°	204.2	207.1	209.0	211.0	208.6	206.1	205.2	204.2	205.2	204.2	205.2
120°	239.9	241.5	243.4	245.3	242.9	240.5	239.5	238.5	238.5	238.5	239.5
122.5°	272.8	273.8	275.8	277.8	275.3	272.8	271.8	270.9	271.8	270.9	271.8
125°	305.7	307.2	308.2	309.2	306.7	304.3	304.3	304.3	304.3	304.3	304.3
127.5°	336.1	338.6	339.1	339.6	339.6	339.6	339.1	338.6	340.5	338.6	339.1
130°	367.6	370.0	372.0	374.0	374.0	374.0	373.0	372.0	373.0	372.0	373.0
132.5°	400.5	403.4	405.9	408.3	407.3	406.3	406.3	406.3	407.3	406.3	406.3
135°	431.8	434.8	437.3	439.7	439.2	438.7	440.2	441.7	442.7	441.7	440.2
137.5°	461.8	464.2	465.2	466.2	466.7	467.2	469.6	472.1	473.0	472.1	469.6
140°	489.3	490.7	491.7	492.7	493.7	494.7	497.1	499.5	501.5	499.5	497.1
142.5°	516.3	517.2	520.2	523.2	523.2	523.2	523.6	524.1	526.0	524.1	523.6
145°	543.3	545.7	548.7	551.6	551.1	550.6	549.1	547.7	549.7	547.7	549.1
147.5°	566.8	569.3	571.7	574.2	574.6	575.2	573.7	572.2	574.2	572.2	573.7
150°	584.0	586.0	587.4	588.9	590.4	591.8	593.3	594.8	598.7	594.8	593.3
152.5°	599.2	599.7	601.1	602.7	604.6	606.5	609.1	611.5	616.3	611.5	609.1
155°	615.4	614.4	616.9	619.3	621.8	624.2	625.2	626.2	629.2	626.2	625.2
157.5°	632.6	632.0	634.0	636.0	637.0	638.0	638.0	638.0	642.8	638.0	638.0
160°	644.4	645.8	648.8	651.7	650.2	648.8	648.3	647.8	653.7	647.8	648.3
162.5°	652.7	654.7	656.6	658.5	658.1	657.6	656.6	655.7	661.5	655.7	656.6
165°	660.1	659.5	662.1	664.5	665.9	667.4	666.5	665.5	669.3	665.5	666.5
167.5°	668.9	665.5	668.4	671.3	673.3	675.3	675.3	675.3	681.2	675.3	675.3
170°	675.7	673.3	674.8	676.2	678.7	681.2	682.2	683.1	688.0	683.1	682.2
172.5°	676.7	676.2	677.7	679.2	680.2	681.2	682.2	683.1	688.0	683.1	682.2
175°	677.2	677.2	679.7	682.2	682.6	683.1	682.2	681.2	686.0	681.2	682.2
177.5°	681.6	681.2	683.6	686.0	687.0	688.0	686.6	685.0	689.0	685.0	686.6
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CATALOG NUMBER: IST-AF-1000-LED-E1-SLL-7027-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7
2.5°	1539.2	1536.1	1514.8	1478.9	1481.9	1465.1	1443.8	1409.4	1402.5	1383.5	1380.4
5°	1400.3	1364.3	1317.8	1261.3	1239.9	1210.9	1181.1	1159.7	1133.0	1108.6	1141.5
7.5°	1214.7	1162.0	1107.8	1048.3	1014.0	966.6	941.4	892.6	856.6	849.8	821.5
10°	1059.7	993.3	931.5	878.0	813.9	769.6	737.6	710.8	686.3	656.6	638.2
12.5°	956.7	881.9	816.2	749.7	719.3	682.5	662.7	637.5	602.4	577.3	552.7
15°	910.2	829.1	757.5	699.4	655.0	620.7	585.7	555.1	516.9	488.7	460.4
17.5°	904.0	798.6	707.8	642.8	594.8	557.4	510.8	470.4	423.7	392.4	368.8
20°	910.8	775.8	661.9	577.3	528.3	462.6	419.1	369.6	323.7	282.4	245.1
22.5°	938.3	763.5	616.9	523.7	451.2	376.4	329.9	266.4	227.5	187.8	173.4
25°	975.8	755.8	578.0	465.0	373.3	299.2	236.0	183.3	165.6	155.8	150.4
27.5°	1015.4	742.1	534.4	410.7	310.7	220.6	176.3	154.1	147.3	142.0	138.2
30°	1045.3	715.4	481.0	352.8	247.3	188.6	157.2	142.8	138.2	132.1	128.3
32.5°	1058.2	674.2	432.9	297.8	208.5	161.9	137.4	129.1	124.4	119.1	116.8
35°	1055.9	627.6	408.5	276.4	190.9	143.5	120.6	115.3	109.1	103.8	98.5
37.5°	1058.2	584.9	389.3	271.1	183.3	129.7	110.0	106.1	101.6	96.2	91.5
40°	1067.4	561.2	380.3	259.6	177.1	124.4	101.6	97.7	96.9	90.9	87.0
42.5°	1071.2	563.5	375.6	243.6	161.9	122.9	101.6	93.2	93.2	88.6	84.0
45°	1066.6	580.2	378.6	234.4	150.4	115.3	106.9	93.2	90.9	87.0	82.5
47.5°	1080.3	592.5	378.6	232.9	142.8	107.7	101.6	102.2	92.3	87.9	80.9
50°	1136.9	603.9	371.1	230.5	140.5	100.0	96.2	100.8	103.8	89.3	81.7
52.5°	1236.9	618.4	362.6	226.7	137.4	94.0	89.3	94.7	106.1	94.0	81.7
55°	1339.1	644.4	357.3	220.6	132.9	90.1	80.9	90.9	96.9	93.2	80.9
57.5°	1448.3	672.7	352.0	206.1	122.2	86.2	77.8	79.4	87.0	90.1	78.6
59°	1481.1	686.3	347.4	195.4	113.0	83.3	75.5	73.3	77.8	86.2	77.2
60°	1504.9	687.1	342.1	186.3	107.7	81.7	74.1	71.0	72.5	88.6	77.8
62.5°	1507.2	686.3	325.3	167.3	96.9	78.6	71.8	67.9	66.5	74.1	79.4
65°	1412.5	654.3	294.7	157.2	97.7	75.5	67.9	64.9	61.8	63.4	68.7
67.5°	1235.3	572.0	262.7	159.6	103.0	73.3	64.9	61.8	59.6	58.0	60.4
70°	934.6	474.9	253.5	164.9	107.7	71.8	60.4	57.2	55.8	55.0	55.0
72.5°	647.5	390.9	243.6	168.7	111.5	71.0	55.8	52.7	51.9	51.1	51.1
75°	416.8	284.0	201.6	143.5	101.6	64.9	50.3	47.3	46.6	45.8	46.6
77.5°	246.7	198.5	148.1	100.8	74.1	51.9	43.5	41.2	41.2	41.2	42.0
80°	136.6	117.6	98.5	64.9	52.7	39.0	35.9	33.6	33.6	34.3	35.9
82.5°	81.7	64.9	55.8	41.2	35.9	27.5	26.7	25.2	25.9	26.7	28.3
85°	53.4	41.2	33.6	27.5	24.4	17.6	15.3	16.0	16.8	18.3	19.0
87.5°	29.7	22.9	18.3	16.0	14.6	7.6	6.1	6.1	7.6	9.2	10.7
90°	8.8	8.8	8.8	7.8	6.8	6.8	6.8	7.4	7.8	7.8	7.8
92.5°	5.9	6.4	6.8	6.8	6.8	6.4	5.9	5.9	5.9	5.9	5.9
95°	6.8	7.4	7.8	7.4	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	8.8	9.3	9.8	10.8	11.8	10.3	8.8	8.8	8.8	8.4	7.8
100°	22.5	24.1	25.5	26.9	28.5	24.5	20.6	16.2	11.8	10.8	9.8
102.5°	41.2	43.7	46.2	47.6	49.0	44.2	39.3	32.9	26.5	22.1	17.7
105°	63.8	66.3	68.7	69.7	70.7	66.3	61.8	54.4	47.1	41.2	35.3
107.5°	88.3	90.3	92.3	92.7	93.2	89.8	86.3	79.1	71.7	64.3	57.0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	116.8	117.8	118.8	118.3	117.8	114.8	111.9	106.0	100.1	92.7	85.4	0°
112.5°	146.2	146.7	147.2	146.2	145.3	142.8	140.3	135.9	131.5	125.1	118.8	2.5°
115°	175.7	177.1	178.7	177.1	175.7	173.2	170.8	167.8	164.9	160.4	156.0	5°
117.5°	206.1	208.6	211.0	209.0	207.1	204.2	201.2	199.7	198.3	195.8	193.3	7.5°
120°	240.5	242.9	245.3	243.4	241.5	239.9	238.5	235.5	232.6	230.7	228.7	10°
122.5°	272.8	275.3	277.8	275.8	273.8	272.8	271.8	269.0	266.0	264.0	262.0	12.5°
125°	304.3	306.7	309.2	308.2	307.2	305.7	304.3	301.8	299.3	296.4	293.5	15°
127.5°	339.6	339.6	339.6	339.1	338.6	336.1	333.7	333.2	332.7	329.8	326.8	17.5°
130°	374.0	374.0	374.0	372.0	370.0	367.6	365.1	364.2	363.2	361.2	359.2	20°
132.5°	406.3	407.3	408.3	405.9	403.4	400.5	397.5	397.1	396.5	395.1	393.5	22.5°
135°	438.7	439.2	439.7	437.3	434.8	431.8	428.9	428.0	427.0	425.4	424.0	25°
137.5°	467.2	466.7	466.2	465.2	464.2	461.8	459.3	457.3	455.4	453.5	451.5	27.5°
140°	494.7	493.7	492.7	491.7	490.7	489.3	487.8	484.8	481.9	481.0	480.0	30°
142.5°	523.2	523.2	523.2	520.2	517.2	516.3	515.3	513.3	511.3	509.9	508.4	32.5°
145°	550.6	551.1	551.6	548.7	545.7	543.3	540.8	540.3	539.8	538.4	536.8	35°
147.5°	575.2	574.6	574.2	571.7	569.3	566.8	564.3	563.9	563.3	563.3	563.3	37.5°
150°	591.8	590.4	588.9	587.4	586.0	584.0	582.0	582.0	582.0	582.0	582.0	40°
152.5°	606.5	604.6	602.7	601.1	599.7	599.2	598.7	598.7	598.7	598.2	597.7	42.5°
155°	624.2	621.8	619.3	616.9	614.4	615.4	616.3	617.3	618.3	616.9	615.4	45°
157.5°	638.0	637.0	636.0	634.0	632.0	632.6	633.0	633.6	634.0	633.0	632.0	47.5°
160°	648.8	650.2	651.7	648.8	645.8	644.4	642.8	642.8	642.8	643.4	643.8	50°
162.5°	657.6	658.1	658.5	656.6	654.7	652.7	650.7	649.7	648.8	650.7	652.7	52.5°
165°	667.4	665.9	664.5	662.1	659.5	660.1	660.5	660.5	660.5	662.1	663.5	55°
167.5°	675.3	673.3	671.3	668.4	665.5	668.9	672.3	673.8	675.3	674.3	673.3	57.5°
170°	681.2	678.7	676.2	674.8	673.3	675.7	678.2	679.2	680.2	679.7	679.2	59°
172.5°	681.2	680.2	679.2	677.7	676.2	676.7	677.2	677.2	677.2	678.7	680.2	60°
175°	683.1	682.6	682.2	679.7	677.2	677.2	677.2	677.7	678.2	680.2	682.2	62.5°
177.5°	688.0	687.0	686.0	683.6	681.2	681.6	682.2	683.1	684.1	685.0	686.0	65°
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	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
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	110°	79.1
1391.0	1368.9	1345.3	1327.8	1335.4	1310.2	1312.4	1305.6	1302.5	1301.0	1284.9	112.5°	111.4
1101.7	1110.1	1075.0	1078.9	1089.6	1063.5	1046.0	1075.0	1071.2	1045.3	1059.7	115°	150.2
794.0	796.3	780.3	744.4	744.4	763.5	770.4	784.1	793.2	825.4	805.5	117.5°	189.5
607.0	585.7	569.5	553.5	544.4	525.3	529.9	546.7	557.4	575.6	590.2	120°	225.3
527.6	503.9	475.7	451.2	438.2	420.7	409.3	405.5	409.3	397.8	398.6	122.5°	259.1
438.2	416.8	385.6	372.5	348.1	334.3	326.7	316.8	309.3	293.2	286.3	125°	291.9
339.8	311.5	279.5	279.5	261.9	250.4	247.3	245.1	240.5	232.1	223.7	127.5°	324.8
226.0	207.7	189.4	180.2	181.6	180.2	175.6	183.3	183.3	186.3	184.8	130°	357.3
164.9	161.9	155.0	149.7	146.6	145.9	146.6	148.8	153.5	157.2	161.1	132.5°	389.7
148.1	146.6	140.5	135.1	134.4	132.9	132.9	135.1	135.9	136.6	135.9	135°	421.0
137.4	134.4	129.1	125.2	123.7	122.9	123.7	121.5	119.8	120.6	119.8	137.5°	450.9
124.4	122.2	116.8	113.7	113.0	113.0	110.7	110.0	108.4	109.1	108.4	140°	479.0
114.5	111.5	106.1	102.2	102.2	101.6	102.2	101.6	100.8	100.0	100.0	142.5°	507.9
96.2	95.4	90.1	88.6	89.3	91.5	91.5	91.5	92.3	91.5	91.5	145°	535.4
89.3	88.6	83.3	79.4	78.6	78.6	78.6	80.2	82.5	83.3	84.7	147.5°	561.9
84.7	84.0	78.6	75.5	74.1	73.3	72.5	72.5	73.3	76.4	78.6	150°	582.0
81.7	80.2	74.8	71.0	70.2	69.5	68.7	68.7	68.7	69.5	71.8	152.5°	597.2
80.2	77.8	71.8	67.9	66.5	65.7	65.7	66.5	65.7	65.7	65.7	155°	614.4
77.8	76.4	70.2	65.7	64.0	64.0	63.4	63.4	63.4	61.8	61.8	157.5°	631.6
77.2	74.8	68.7	64.0	62.6	61.8	61.1	61.8	60.4	59.6	58.7	160°	645.3
75.5	72.5	65.7	61.8	61.1	59.6	58.7	58.7	58.7	57.2	57.2	162.5°	654.7
74.8	71.0	64.0	60.4	58.7	57.2	56.5	56.5	58.0	56.5	56.5	165°	663.5
74.1	68.7	61.8	57.2	56.5	55.0	54.2	55.0	57.2	55.8	55.0	167.5°	672.3
71.0	67.2	60.4	56.5	55.0	53.4	52.7	53.4	55.0	55.0	55.0	170°	679.2
69.5	65.7	58.7	55.0	54.2	52.7	51.9	51.9	54.2	54.2	53.4	172.5°	681.2
67.2	64.0	57.2	52.7	51.1	51.1	50.3	50.3	51.1	51.1	51.9	175°	683.1
64.0	62.6	55.8	50.3	49.7	48.9	48.9	48.9	48.9	50.3	50.3	177.5°	686.6
61.1	60.4	53.4	48.9	47.3	47.3	47.3	47.3	47.3	48.1	48.9	180°	687.0
56.5	56.5	50.3	45.8	45.1	44.3	44.3	44.3	44.3	45.1	45.8		
51.9	52.7	46.6	42.0	41.2	41.2	41.2	41.2	42.0	42.0	42.8		
47.3	48.1	42.0	37.4	37.4	37.4	37.4	37.4	37.4	37.4	39.0		
42.8	42.8	35.9	31.4	32.1	32.8	33.6	32.8	32.8	33.6	35.9		
36.7	35.9	29.7	25.9	25.9	27.5	28.3	27.5	28.3	28.3	31.4		
29.0	29.0	22.9	19.0	19.0	22.2	22.2	22.2	22.9	23.6	25.9		
22.2	21.4	16.0	12.9	12.9	15.3	16.0	16.8	17.6	18.3	19.9		
12.9	12.9	8.4	5.3	6.1	6.8	9.2	9.2	9.2	10.7	12.9		
7.4	7.6	5.9	4.9	4.9	4.9	5.9	6.8	7.4	7.8	7.8		
5.4	4.9	4.4	4.0	4.0	4.0	4.4	4.9	5.4	5.9	5.9		
6.4	5.9	5.4	4.9	4.9	4.9	5.4	5.9	6.4	6.8	6.8		
7.8	7.8	7.4	6.8	6.8	6.8	7.4	7.8	7.8	7.8	8.4		
9.3	8.8	8.4	7.8	7.8	7.8	8.4	8.8	9.3	9.8	10.8		
15.2	12.8	11.8	10.8	10.8	10.8	11.8	12.8	15.2	17.7	22.1		
30.9	26.5	24.1	21.6	20.6	21.6	24.1	26.5	30.9	35.3	41.2		
52.6	48.1	44.6	41.2	40.2	41.2	44.6	48.1	52.6	57.0	64.3		

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 IST-AF-1000-LED-E1-SLL-7027-ULG

REPORT NUMBER: P271735
 CATALOG NUMBER: IST-AF-10

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
72.7	69.7	66.7	64.8	66.7	69.7	72.7	79.1	85.4	92.7	0°	1498.7	1498.7
104.0	100.6	97.2	97.2	97.2	100.6	104.0	111.4	118.8	125.1	2.5°	1298.7	1297.9
144.3	140.3	136.5	137.4	136.5	140.3	144.3	150.2	156.0	160.4	5°	1065.9	1059.0
185.5	183.1	180.6	180.6	180.6	183.1	185.5	189.5	193.3	195.8	7.5°	826.1	851.3
221.8	220.4	218.8	220.8	218.8	220.4	221.8	225.3	228.7	230.7	10°	595.6	613.1
256.2	255.7	255.2	258.2	255.2	255.7	256.2	259.1	262.0	264.0	12.5°	414.6	423.7
290.5	289.5	288.5	292.5	288.5	289.5	290.5	291.9	293.5	296.4	15°	285.5	303.9
322.9	322.9	322.9	323.9	322.9	322.9	322.9	324.8	326.8	329.8	17.5°	222.2	224.5
355.3	354.8	354.3	356.3	354.3	354.8	355.3	357.3	359.2	361.2	20°	183.3	184.8
385.7	386.2	386.7	388.7	386.7	386.2	385.7	389.7	393.5	395.1	22.5°	162.6	165.6
418.1	418.1	418.1	421.0	418.1	418.1	418.1	421.0	424.0	425.4	25°	136.6	139.8
450.5	449.5	448.5	451.5	448.5	449.5	450.5	450.9	451.5	453.5	27.5°	120.6	123.7
478.0	477.0	476.0	479.0	476.0	477.0	478.0	479.0	480.0	481.0	30°	110.7	112.3
507.5	506.5	505.5	508.4	505.5	506.5	507.5	507.9	508.4	509.9	32.5°	100.8	100.8
534.0	534.9	535.9	539.8	535.9	534.9	534.0	535.4	536.8	538.4	35°	92.3	93.2
560.5	560.9	561.4	564.3	561.4	560.9	560.5	561.9	563.3	563.3	37.5°	86.2	87.9
582.0	581.6	581.0	584.0	581.0	581.6	582.0	582.0	582.0	582.0	40°	80.9	81.7
596.7	596.7	596.7	599.7	596.7	596.7	596.7	597.2	597.7	598.2	42.5°	73.3	74.8
613.5	613.5	613.5	617.3	613.5	613.5	613.5	614.4	615.4	616.9	45°	66.5	67.2
631.1	631.1	631.1	634.0	631.1	631.1	631.1	631.6	632.0	633.0	47.5°	61.8	61.8
646.8	647.3	647.8	650.7	647.8	647.3	646.8	645.3	643.8	643.4	50°	58.7	59.6
656.6	656.6	656.6	660.5	656.6	656.6	656.6	654.7	652.7	650.7	52.5°	57.2	58.0
663.5	664.5	665.5	668.4	665.5	664.5	663.5	663.5	663.5	662.1	55°	56.5	58.0
671.3	672.8	674.3	677.2	674.3	672.8	671.3	672.3	673.3	674.3	57.5°	56.5	57.2
679.2	680.6	682.2	685.0	682.2	680.6	679.2	679.2	679.2	679.7	59°	55.8	56.5
682.2	683.1	684.1	686.0	684.1	683.1	682.2	681.2	680.2	678.7	60°	55.8	57.2
684.1	684.6	685.0	687.0	685.0	684.6	684.1	683.1	682.2	680.2	62.5°	53.4	55.0
687.0	689.4	692.0	693.9	692.0	689.4	687.0	686.6	686.0	685.0	65°	51.9	53.4
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	49.7	51.9
										70°	47.3	49.7
										72.5°	44.3	47.3
										75°	41.2	43.5
										77.5°	37.4	39.7
										80°	32.8	33.6
										82.5°	27.5	27.5
										85°	20.6	18.3
										87.5°	11.5	12.1
										90°	7.8	7.4
										92.5°	5.9	5.9
										95°	6.8	6.8
										97.5°	8.8	8.8
										100°	11.8	16.2
										102.5°	26.5	32.9
										105°	47.1	54.4
										107.5°	71.7	79.1

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tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	110°	100.1	106.0	111.9
1281.9	1281.9	1304.8	1307.1	1280.4	1287.2	1300.3	1284.9	1301.7	112.5°	131.5	135.9	140.3
1075.8	1066.6	1067.4	1061.3	1071.9	1059.7	1072.8	1068.2	1064.3	115°	164.9	167.8	170.8
835.2	851.3	839.8	817.6	835.2	821.5	795.6	797.9	768.9	117.5°	198.3	199.7	201.2
627.6	616.1	609.9	599.3	571.1	576.4	547.4	552.0	561.9	120°	232.6	235.5	238.5
432.9	424.4	434.4	427.5	416.2	418.4	424.4	430.6	446.6	122.5°	266.0	269.0	271.8
303.9	300.0	297.8	302.4	315.3	322.2	332.1	350.5	359.6	125°	299.3	301.8	304.3
228.3	229.1	226.7	233.6	244.2	249.7	252.0	253.5	264.2	127.5°	332.7	333.2	333.7
188.6	191.7	190.9	193.1	190.1	187.0	189.4	184.8	181.0	130°	363.2	364.2	365.1
164.9	165.6	161.9	161.1	156.6	152.7	149.7	149.7	148.1	132.5°	396.5	397.1	397.5
139.8	140.5	136.6	136.6	135.9	138.2	136.6	133.6	132.9	135°	427.0	428.0	428.9
125.2	123.7	121.5	121.5	119.8	119.8	120.6	121.5	120.6	137.5°	455.4	457.3	459.3
112.3	110.7	110.0	110.7	110.0	110.7	111.5	110.7	111.5	140°	481.9	484.8	487.8
103.0	101.6	101.6	102.2	101.6	102.2	102.2	102.2	101.6	142.5°	511.3	513.3	515.3
95.4	94.0	94.0	94.0	93.2	91.5	90.1	87.9	85.5	145°	539.8	540.3	540.8
89.3	88.6	87.0	86.2	84.0	79.4	77.8	77.8	77.8	147.5°	563.3	563.9	564.3
84.0	82.5	81.7	78.6	75.5	74.1	74.1	74.1	74.1	150°	582.0	582.0	582.0
77.2	74.8	73.3	72.5	71.8	71.8	71.0	71.0	71.0	152.5°	598.7	598.7	598.7
68.7	67.9	67.9	68.7	68.7	68.7	68.7	67.9	68.7	155°	618.3	617.3	616.3
63.4	63.4	64.0	64.9	65.7	66.5	67.2	66.5	67.2	157.5°	634.0	633.6	633.0
61.1	61.1	61.1	62.6	63.4	64.0	65.7	65.7	65.7	160°	642.8	642.8	642.8
59.6	59.6	60.4	61.1	61.8	62.6	63.4	64.0	64.9	162.5°	648.8	649.7	650.7
58.7	59.6	58.7	59.6	60.4	61.8	62.6	62.6	63.4	165°	660.5	660.5	660.5
58.7	58.7	58.7	58.7	60.4	61.1	60.4	61.1	61.8	167.5°	675.3	673.8	672.3
58.7	58.7	58.0	58.7	59.6	60.4	59.6	59.6	61.1	170°	680.2	679.2	678.2
58.0	58.7	58.0	58.0	58.7	59.6	58.7	59.6	60.4	172.5°	677.2	677.2	677.2
56.5	57.2	56.5	57.2	57.2	58.0	58.0	58.0	58.7	175°	678.2	677.7	677.2
55.0	55.0	55.0	55.8	55.8	56.5	56.5	57.2	56.5	177.5°	684.1	683.1	682.2
53.4	53.4	53.4	54.2	54.2	55.0	55.8	55.0	55.0	180°	687.0	687.0	687.0
51.9	51.1	50.3	51.1	51.9	51.9	52.7	51.9	52.7				
49.7	48.9	48.1	48.1	48.9	48.9	49.7	48.9	48.9				
45.8	45.8	44.3	44.3	44.3	44.3	45.1	44.3	43.5				
41.2	41.2	39.7	39.7	39.7	39.7	39.0	39.0	39.0				
34.3	35.1	35.1	34.3	34.3	33.6	33.6	32.8	32.1				
25.9	27.5	28.3	28.3	28.3	28.3	28.3	26.7	25.2				
18.3	20.6	22.9	22.9	22.2	22.2	22.2	19.9	17.6				
11.5	13.7	14.6	16.0	13.7	12.9	12.9	11.5	10.7				
6.8	6.8	8.4	8.6	11.0	11.0	11.9	9.4	7.6				
5.9	6.4	6.8	6.8	6.8	6.4	5.9	5.9	5.9				
6.8	6.8	6.8	7.4	7.8	7.4	6.8	6.8	6.8				
8.8	10.3	11.8	10.8	9.8	9.3	8.8	8.4	7.8				
20.6	24.5	28.5	26.9	25.5	24.1	22.5	20.6	18.7				
39.3	44.2	49.0	47.6	46.2	43.7	41.2	39.7	38.3				
61.8	66.3	70.7	69.7	68.7	66.3	63.8	61.8	59.8				
86.3	89.8	93.2	92.7	92.3	90.3	88.3	86.9	85.4				



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CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
114.8	117.8	118.3	118.8	117.8	116.8	115.3	113.8	0°	1498.7	1498.7	1498.7	1498.7
142.8	145.3	146.2	147.2	146.7	146.2	145.3	144.3	2.5°	1287.2	1315.5	1319.3	1323.1
173.2	175.7	177.1	178.7	177.1	175.7	174.7	173.7	5°	1058.2	1086.5	1070.4	1077.2
204.2	207.1	209.0	211.0	208.6	206.1	205.2	204.2	7.5°	772.6	754.4	778.0	792.6
239.9	241.5	243.4	245.3	242.9	240.5	239.5	238.5	10°	564.2	585.7	594.8	611.6
272.8	273.8	275.8	277.8	275.3	272.8	271.8	270.9	12.5°	468.1	481.9	498.6	525.3
305.7	307.2	308.2	309.2	306.7	304.3	304.3	304.3	15°	379.4	389.3	410.7	436.8
336.1	338.6	339.1	339.6	339.6	339.6	339.1	338.6	17.5°	276.4	290.9	304.6	326.1
367.6	370.0	372.0	374.0	374.0	374.0	373.0	372.0	20°	185.5	191.7	208.5	218.4
400.5	403.4	405.9	408.3	407.3	406.3	406.3	406.3	22.5°	148.8	151.2	154.1	162.6
431.8	434.8	437.3	439.7	439.2	438.7	440.2	441.7	25°	133.6	135.1	137.4	140.5
461.8	464.2	465.2	466.2	466.7	467.2	469.6	472.1	27.5°	121.5	122.2	124.4	126.0
489.3	490.7	491.7	492.7	493.7	494.7	497.1	499.5	30°	110.7	110.0	110.7	113.0
516.3	517.2	520.2	523.2	523.2	523.2	523.6	524.1	32.5°	99.3	99.3	100.8	100.8
543.3	545.7	548.7	551.6	551.1	550.6	549.1	547.7	35°	85.5	84.7	86.2	88.6
566.8	569.3	571.7	574.2	574.6	575.2	573.7	572.2	37.5°	78.6	79.4	80.9	82.5
584.0	586.0	587.4	588.9	590.4	591.8	593.3	594.8	40°	74.8	75.5	77.2	78.6
599.2	599.7	601.1	602.7	604.6	606.5	609.1	611.5	42.5°	71.0	72.5	74.1	76.4
615.4	614.4	616.9	619.3	621.8	624.2	625.2	626.2	45°	68.7	70.2	72.5	74.8
632.6	632.0	634.0	636.0	637.0	638.0	638.0	638.0	47.5°	67.9	69.5	71.8	74.8
644.4	645.8	648.8	651.7	650.2	648.8	648.3	647.8	50°	66.5	68.7	71.0	74.1
652.7	654.7	656.6	658.5	658.1	657.6	656.6	655.7	52.5°	66.5	67.9	70.2	74.1
660.1	659.5	662.1	664.5	665.9	667.4	666.5	665.5	55°	64.0	66.5	68.7	72.5
668.9	665.5	668.4	671.3	673.3	675.3	675.3	675.3	57.5°	62.6	64.0	67.2	71.8
675.7	673.3	674.8	676.2	678.7	681.2	682.2	683.1	59°	61.8	63.4	66.5	71.0
676.7	676.2	677.7	679.2	680.2	681.2	682.2	683.1	60°	60.4	62.6	65.7	70.2
677.2	677.2	679.7	682.2	682.6	683.1	682.2	681.2	62.5°	58.7	61.1	64.0	68.7
681.6	681.2	683.6	686.0	687.0	688.0	686.6	685.0	65°	56.5	59.6	62.6	65.7
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	55.0	56.5	59.6	62.6
								70°	51.9	53.4	55.8	58.0
								72.5°	48.1	48.9	50.3	52.7
								75°	42.8	43.5	44.3	46.6
								77.5°	37.4	37.4	38.2	41.2
								80°	31.4	31.4	32.1	33.6
								82.5°	23.6	23.6	25.2	27.5
								85°	16.8	16.0	18.3	19.9
								87.5°	9.9	9.2	9.9	9.9
								90°	7.6	9.2	9.4	10.4
								92.5°	5.9	5.9	5.9	5.9
								95°	6.8	6.8	6.8	6.8
								97.5°	7.8	7.8	8.4	8.8
								100°	18.7	18.7	20.6	22.5
								102.5°	37.3	38.3	39.7	41.2
								105°	59.8	59.8	61.8	63.8
								107.5°	84.4	85.4	86.9	88.3



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ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7	110°	114.8	113.8	115.3	116.8	117.8
1338.5	1330.7	1336.9	1360.6	1368.9	1379.7	1415.5	112.5°	144.3	144.3	145.3	146.2	146.7
1094.0	1104.1	1094.0	1142.1	1144.5	1176.6	1189.5	115°	174.7	173.7	174.7	175.7	177.1
803.9	817.0	838.3	870.4	879.5	925.3	964.3	117.5°	205.2	204.2	205.2	206.1	208.6
627.6	644.4	674.2	694.0	713.8	740.7	771.9	120°	238.5	238.5	239.5	240.5	242.9
557.4	574.9	600.9	626.1	654.3	675.0	700.9	122.5°	271.8	270.9	271.8	272.8	275.3
465.7	493.2	518.4	551.2	574.9	612.4	642.8	125°	304.3	304.3	304.3	304.3	306.7
355.8	394.0	419.1	458.9	494.8	527.6	568.8	127.5°	340.5	338.6	339.1	339.6	339.6
247.3	277.1	309.3	352.0	398.6	443.7	498.6	130°	373.0	372.0	373.0	374.0	374.0
170.3	186.3	210.7	255.0	303.1	368.0	427.5	132.5°	407.3	406.3	406.3	406.3	407.3
145.1	151.2	160.3	181.6	222.2	293.2	358.9	135°	442.7	441.7	440.2	438.7	439.2
129.1	133.6	139.8	150.4	171.8	220.6	293.2	137.5°	473.0	472.1	469.6	467.2	466.7
118.4	123.7	129.7	137.4	148.8	182.4	236.7	140°	501.5	499.5	497.1	494.7	493.7
103.8	107.7	113.0	121.5	129.7	156.6	209.1	142.5°	526.0	524.1	523.6	523.2	523.2
91.5	96.2	103.0	109.1	117.6	139.0	190.1	145°	549.7	547.7	549.1	550.6	551.1
85.5	90.1	96.2	101.6	107.7	125.2	176.3	147.5°	574.2	572.2	573.7	575.2	574.6
81.7	86.2	92.3	96.9	100.8	120.6	171.0	150°	598.7	594.8	593.3	591.8	590.4
79.4	84.7	90.1	93.2	100.8	122.9	158.0	152.5°	616.3	611.5	609.1	606.5	604.6
78.6	84.0	90.1	95.4	110.7	116.0	149.7	155°	629.2	626.2	625.2	624.2	621.8
79.4	84.0	91.5	106.9	107.7	110.0	140.5	157.5°	642.8	638.0	638.0	638.0	637.0
79.4	86.2	102.2	111.5	102.2	103.8	132.1	160°	653.7	647.8	648.3	648.8	650.2
80.2	89.3	106.1	103.8	99.3	96.9	122.9	162.5°	661.5	655.7	656.6	657.6	658.1
80.2	87.9	101.6	97.7	91.5	92.3	112.3	165°	669.3	665.5	666.5	667.4	665.9
77.8	87.9	97.7	88.6	84.0	87.9	103.0	167.5°	681.2	675.3	675.3	675.3	673.3
76.4	90.1	87.0	81.7	81.7	85.5	98.5	170°	688.0	683.1	682.2	681.2	678.7
75.5	92.3	82.5	79.4	79.4	84.7	96.2	172.5°	688.0	683.1	682.2	681.2	680.2
73.3	86.2	75.5	74.1	76.4	80.2	93.2	175°	686.0	681.2	682.2	683.1	682.6
68.7	71.8	69.5	69.5	72.5	77.2	91.5	177.5°	689.0	685.0	686.6	688.0	687.0
63.4	64.9	64.9	65.7	68.7	72.5	93.2	180°	687.0	687.0	687.0	687.0	687.0
58.7	58.7	60.4	61.1	63.4	68.7	89.3						
53.4	54.2	54.2	55.8	57.2	62.6	86.2						
47.3	47.3	48.9	48.9	51.1	56.5	77.2						
41.2	41.2	41.2	42.0	43.5	48.9	63.4						
34.3	34.3	34.3	35.1	35.9	40.4	48.1						
27.5	26.7	25.9	25.9	27.5	31.4	37.4						
19.0	19.0	18.3	18.3	18.3	20.6	25.2						
10.7	9.2	9.9	10.7	9.9	11.5	13.7						
9.6	10.4	10.2	9.9	9.9	9.9	11.9						
6.4	6.8	6.8	6.8	6.4	5.9	5.9						
7.4	7.8	7.4	6.8	6.8	6.8	6.8						
9.3	9.8	10.8	11.8	10.3	8.8	8.8						
24.1	25.5	26.9	28.5	24.5	20.6	16.2						
43.7	46.2	47.6	49.0	44.2	39.3	32.9						
66.3	68.7	69.7	70.7	66.3	61.8	54.4						
90.3	92.3	92.7	93.2	89.8	86.3	79.1						



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CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
118.8	118.3	117.8	114.8	111.9	106.0	0°	1498.7	1498.7	1498.7	1498.7	1498.7	1498.7
147.2	146.2	145.3	142.8	140.3	135.9	2.5°	1411.0	1430.8	1462.1	1468.2	1493.4	1510.9
178.7	177.1	175.7	173.2	170.8	167.8	5°	1195.6	1243.0	1259.7	1292.6	1349.8	1378.9
211.0	209.0	207.1	204.2	201.2	199.7	7.5°	986.5	1022.3	1062.8	1115.4	1157.5	1207.1
245.3	243.4	241.5	239.9	238.5	235.5	10°	811.6	862.7	915.5	958.2	1017.0	1076.5
277.8	275.8	273.8	272.8	271.8	269.0	12.5°	720.7	749.0	800.9	861.3	934.6	1000.9
309.2	308.2	307.2	305.7	304.3	301.8	15°	673.4	707.0	762.8	826.9	904.8	987.1
339.6	339.1	338.6	336.1	333.7	333.2	17.5°	614.6	668.1	731.4	823.0	923.9	1038.4
374.0	372.0	370.0	367.6	365.1	364.2	20°	556.6	621.4	704.7	825.4	965.0	1114.0
408.3	405.9	403.4	400.5	397.5	397.1	22.5°	505.5	582.6	687.9	839.1	1017.7	1216.2
439.7	437.3	434.8	431.8	428.9	428.0	25°	445.1	548.1	675.0	867.3	1098.6	1353.7
466.2	465.2	464.2	461.8	459.3	457.3	27.5°	397.1	515.4	655.9	891.7	1172.7	1485.8
492.7	491.7	490.7	489.3	487.8	484.8	30°	343.6	477.2	629.2	900.1	1262.8	1594.2
523.2	520.2	517.2	516.3	515.3	513.3	32.5°	300.8	441.2	598.6	892.6	1303.4	1669.8
551.6	548.7	545.7	543.3	540.8	540.3	35°	280.2	415.4	572.6	865.8	1336.9	1751.4
574.2	571.7	569.3	566.8	564.3	563.9	37.5°	266.4	387.1	547.4	821.5	1375.0	1832.5
588.9	587.4	586.0	584.0	582.0	582.0	40°	248.9	364.9	526.9	789.5	1404.8	1899.6
602.7	601.1	599.7	599.2	598.7	598.7	42.5°	232.9	345.1	510.8	761.2	1412.5	1959.9
619.3	616.9	614.4	615.4	616.3	617.3	45°	219.2	332.9	498.6	762.8	1417.9	2043.9
636.0	634.0	632.0	632.6	633.0	633.6	47.5°	208.5	321.4	494.0	788.7	1474.3	2160.7
651.7	648.8	645.8	644.4	642.8	642.8	50°	198.5	311.5	486.3	839.1	1565.2	2318.7
658.5	656.6	654.7	652.7	650.7	649.7	52.5°	187.0	297.8	476.4	891.0	1664.4	2530.3
664.5	662.1	659.5	660.1	660.5	660.5	55°	171.8	279.5	465.7	934.6	1799.6	2787.5
671.3	668.4	665.5	668.9	672.3	673.8	57.5°	148.1	258.0	458.9	956.7	1882.8	2935.6
676.2	674.8	673.3	675.7	678.2	679.2	59°	135.9	237.4	455.0	945.9	1904.9	2960.8
679.2	677.7	676.2	676.7	677.2	677.2	60°	129.1	225.3	449.0	933.0	1911.1	2944.8
682.2	679.7	677.2	677.2	677.2	677.7	62.5°	119.8	196.2	423.7	868.1	1825.5	2750.9
686.0	683.6	681.2	681.6	682.2	683.1	65°	122.2	185.5	366.5	739.0	1629.3	2372.2
687.0	687.0	687.0	687.0	687.0	687.0	67.5°	125.2	181.0	316.8	597.0	1298.7	1963.0
						70°	122.9	178.7	287.9	474.9	972.8	1469.8
						72.5°	119.8	168.7	249.7	381.8	616.9	1029.2
						75°	106.1	142.0	196.2	261.9	389.3	749.7
						77.5°	83.3	109.1	139.0	162.6	197.8	529.1
						80°	61.1	79.4	90.9	97.7	110.0	361.1
						82.5°	43.5	53.4	58.0	61.8	73.3	270.3
						85°	32.8	37.4	40.4	40.4	49.7	190.9
						87.5°	18.3	19.0	19.0	20.6	24.4	51.9
						90°	13.1	13.1	12.5	12.7	10.7	8.9
						92.5°	5.9	5.9	5.9	5.4	4.9	4.4
						95°	6.8	6.8	6.8	6.4	5.9	5.4
						97.5°	8.8	8.4	7.8	7.8	7.8	7.4
						100°	11.8	10.8	9.8	9.3	8.8	8.4
						102.5°	26.5	22.1	17.7	15.2	12.8	11.8
						105°	47.1	41.2	35.3	30.9	26.5	24.1
						107.5°	71.7	64.3	57.0	52.6	48.1	44.6



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CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
1498.7	1498.7	1498.7	110°	100.1	92.7	85.4	79.1	72.7	69.7	66.7
1530.8	1542.3	1551.5	112.5°	131.5	125.1	118.8	111.4	104.0	100.6	97.2
1423.2	1451.4	1456.7	115°	164.9	160.4	156.0	150.2	144.3	140.3	136.5
1262.1	1307.9	1323.9	117.5°	198.3	195.8	193.3	189.5	185.5	183.1	180.6
1143.7	1193.4	1210.2	120°	232.6	230.7	228.7	225.3	221.8	220.4	218.8
1078.9	1136.9	1155.2	122.5°	266.0	264.0	262.0	259.1	256.2	255.7	255.2
1080.3	1149.8	1176.6	125°	299.3	296.4	293.5	291.9	290.5	289.5	288.5
1150.5	1230.0	1262.8	127.5°	332.7	329.8	326.8	324.8	322.9	322.9	322.9
1271.2	1386.5	1411.0	130°	363.2	361.2	359.2	357.3	355.3	354.8	354.3
1434.6	1547.6	1584.3	132.5°	396.5	395.1	393.5	389.7	385.7	386.2	386.7
1588.0	1737.7	1766.0	135°	427.0	425.4	424.0	421.0	418.1	418.1	418.1
1739.3	1887.4	1912.6	137.5°	455.4	453.5	451.5	450.9	450.5	449.5	448.5
1856.1	2011.0	2032.4	140°	481.9	481.0	480.0	479.0	478.0	477.0	476.0
1968.3	2143.2	2166.8	142.5°	511.3	509.9	508.4	507.9	507.5	506.5	505.5
2093.5	2286.6	2314.1	145°	539.8	538.4	536.8	535.4	534.0	534.9	535.9
2206.5	2427.8	2445.5	147.5°	563.3	563.3	563.3	561.9	560.5	560.9	561.4
2331.7	2543.2	2547.9	150°	582.0	582.0	582.0	582.0	582.0	581.6	581.0
2434.0	2628.7	2630.2	152.5°	598.7	598.2	597.7	597.2	596.7	596.7	596.7
2533.3	2708.9	2709.6	155°	618.3	616.9	615.4	614.4	613.5	613.5	613.5
2637.2	2796.7	2785.3	157.5°	634.0	633.0	632.0	631.6	631.1	631.1	631.1
2801.3	2900.5	2911.9	160°	642.8	643.4	643.8	645.3	646.8	647.3	647.8
3050.9	3139.5	3152.5	162.5°	648.8	650.7	652.7	654.7	656.6	656.6	656.6
3341.1	3464.0	3446.4	165°	660.5	662.1	663.5	663.5	663.5	664.5	665.5
3464.0	3604.4	3619.0	167.5°	675.3	674.3	673.3	672.3	671.3	672.8	674.3
3443.5	3635.0	3659.4	170°	680.2	679.7	679.2	679.2	679.2	680.6	682.2
3410.5	3625.9	3655.7	172.5°	677.2	678.7	680.2	681.2	682.2	683.1	684.1
3224.3	3530.4	3577.1	175°	678.2	680.2	682.2	683.1	684.1	684.6	685.0
2911.2	3332.7	3398.4	177.5°	684.1	685.0	686.0	686.6	687.0	689.4	692.0
2508.9	3037.2	3089.9	180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0
1957.6	2468.5	2513.5								
1301.0	1694.9	1772.9								
826.9	1093.3	1078.9								
609.9	710.8	711.5								
442.9	487.9	482.5								
342.8	297.8	297.0								
119.8	105.4	103.0								
51.9	43.5	44.3								
7.2	7.2	7.9								
4.0	4.0	4.0								
4.9	4.9	4.9								
6.8	6.8	6.8								
7.8	7.8	7.8								
10.8	10.8	10.8								
21.6	20.8	20.6								
41.2	40.4	40.2								



359°	360°
65.1	64.8
97.2	97.2
137.2	137.4
180.6	180.6
220.4	220.8
257.5	258.2
291.7	292.5
323.7	323.9
355.9	356.3
388.2	388.7
420.5	421.0
450.9	451.5
478.3	479.0
507.8	508.4
539.1	539.8
563.8	564.3
583.4	584.0
599.1	599.7
616.6	617.3
633.5	634.0
650.1	650.7
659.7	660.5
667.8	668.4
676.6	677.2
684.5	685.0
685.7	686.0
686.7	687.0
693.5	693.9
687.0	687.0

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