

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: P227205

Luminaire Tested: **IST-AF-800-LED-E1-SLL-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227205
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-800-LED-E1-SLL-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) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6295.1 lumens
Efficiency: N/A
Efficacy: 104.6 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

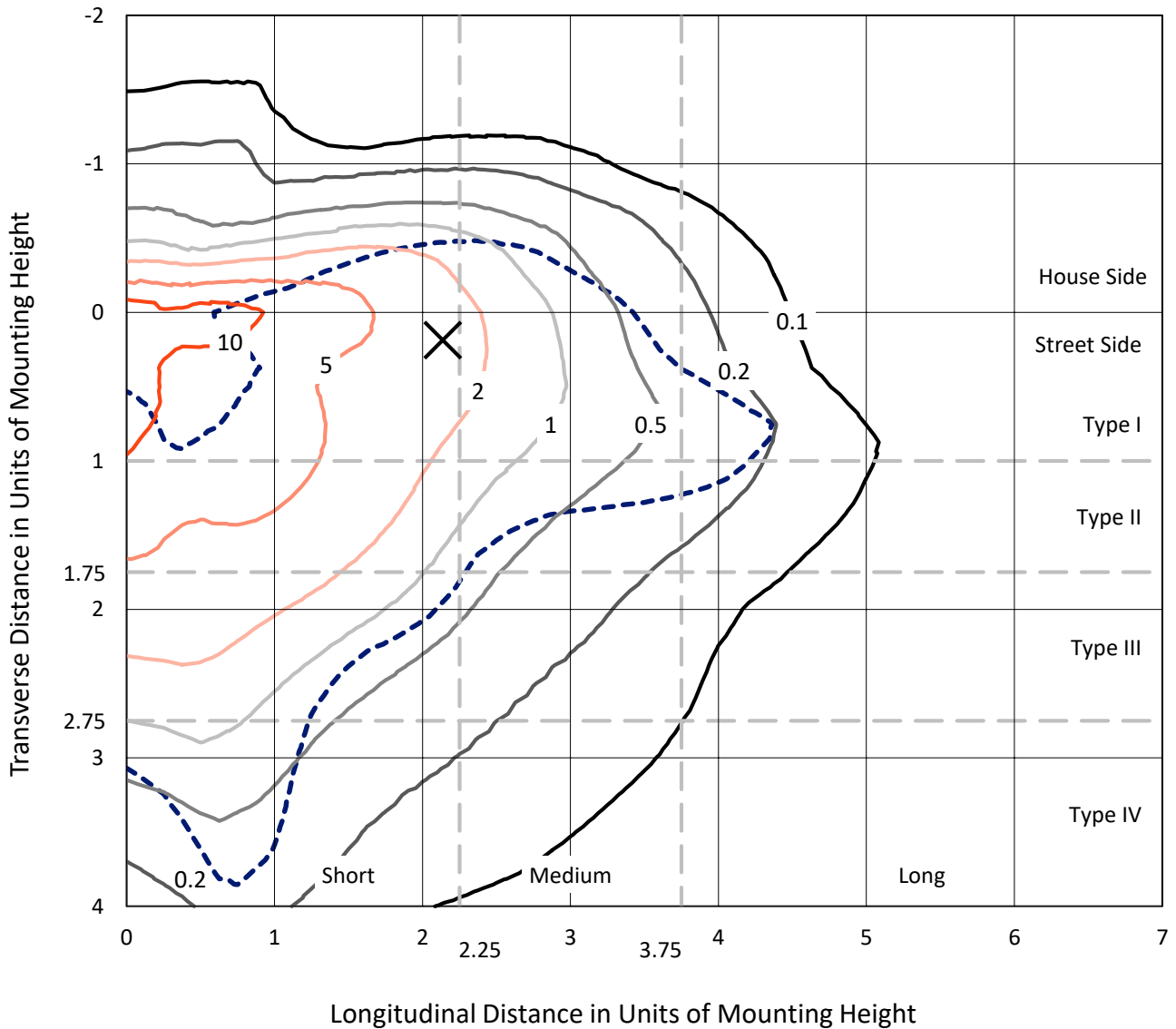
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

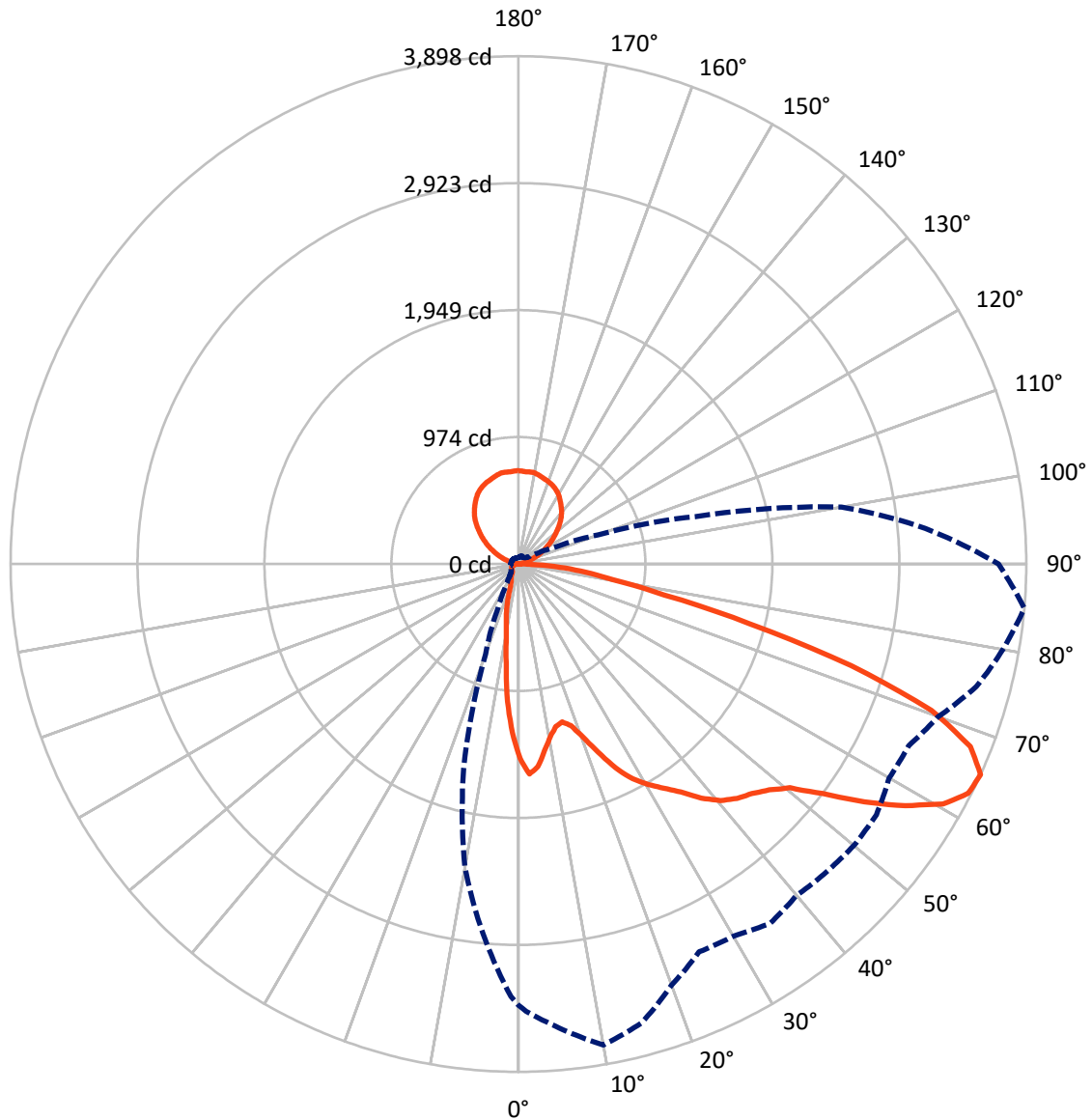
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 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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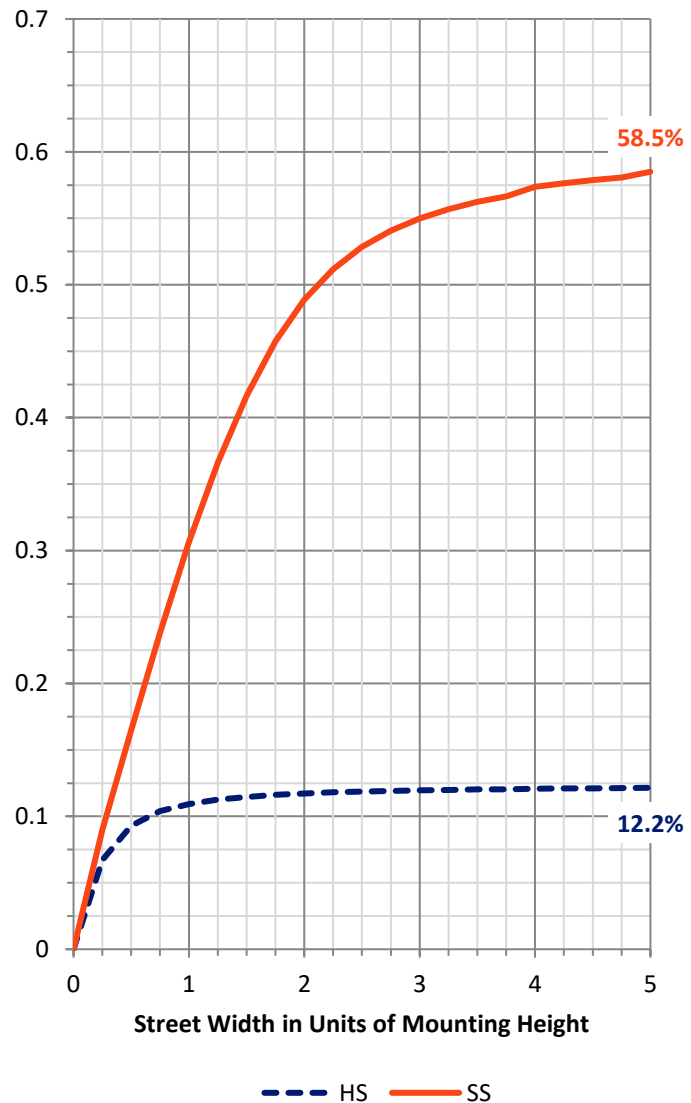
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	775.7	887.5	1663.2
	% Fixture	12.3	14.1	26.4
Street Side	Lumens	3744.3	887.7	4631.9
	% Fixture	59.5	14.1	73.6
Total	Lumens	4519.9	1775.2	6295.1
	% Fixture	71.8	28.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	1.8
10°-20°	212.8	3.4
20°-30°	303.5	4.8
30°-40°	440.2	7.0
40°-50°	629.8	10.0
50°-60°	967.0	15.4
60°-70°	1119.2	17.8
70°-80°	571.0	9.1
80°-90°	165.8	2.6
90°-100°	9.7	0.2
100°-110°	58.7	0.9
110°-120°	169.9	2.7
120°-130°	279.4	4.4
130°-140°	344.6	5.5
140°-150°	352.5	5.6
150°-160°	297.0	4.7
160°-170°	195.5	3.1
170°-180°	67.8	1.1
0°-90°	4519.9	71.8
0°-180°	6295.1	100.0

Coefficient of Utilization



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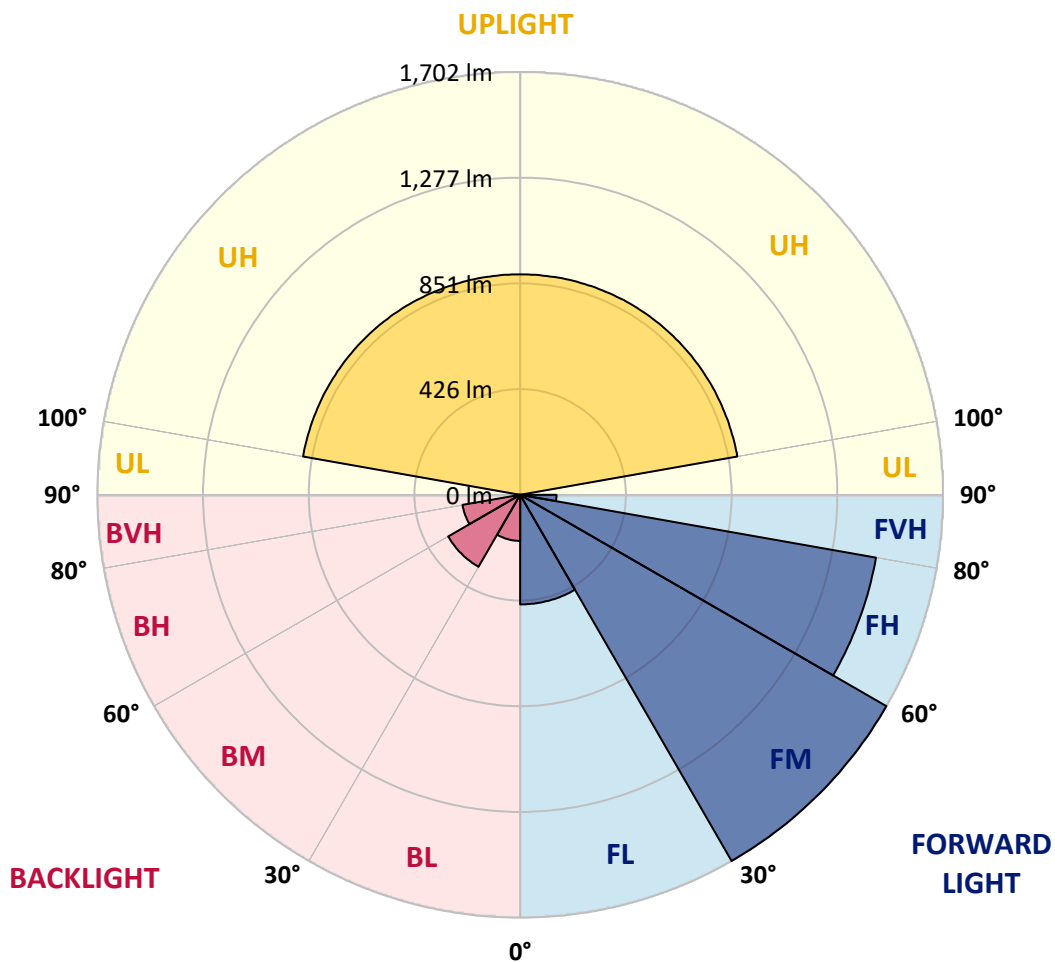
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.3	7.0			
FM (30°-60°)	1702.3	27.0			
FH (60°-80°)	1454.5	23.1			G1/1800
FVH (80°-90°)	146.2	2.3			G2/225
BL (0°-30°)	185.6	2.9	B1/500		
BM (30°-60°)	334.7	5.3	B1/1000		
BH (60°-80°)	235.8	3.7	B1/500		G1/500
BVH (80°-90°)	19.7	0.3			G1/100
UL (90°-100°)	9.7	0.2		U1/10	
UH (100°-180°)	887.5	14.1		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°	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9
2.5°	1545.4	1546.9	1568.2	1588.7	1614.6	1610.8	1632.1	1648.1	1662.5	1664.9	1675.5
5°	1451.1	1466.3	1514.2	1555.3	1607.0	1647.4	1690.6	1724.9	1750.0	1773.6	1776.6
7.5°	1318.8	1330.1	1385.7	1450.3	1524.9	1578.1	1643.5	1700.6	1740.9	1778.9	1787.3
10°	1205.4	1216.1	1277.7	1361.3	1426.7	1496.0	1563.7	1610.0	1662.5	1695.2	1711.2
12.5°	1150.7	1163.6	1222.2	1298.2	1365.1	1432.1	1483.1	1523.4	1553.0	1559.1	1563.7
15°	1172.0	1178.8	1243.5	1311.1	1364.4	1397.9	1411.6	1435.9	1433.6	1445.7	1448.1
17.5°	1257.9	1254.9	1323.3	1370.4	1396.3	1392.5	1371.3	1358.3	1335.5	1328.6	1348.5
20°	1405.4	1416.1	1460.3	1489.1	1462.5	1400.9	1342.3	1302.0	1270.1	1259.5	1257.2
22.5°	1578.1	1591.8	1639.7	1624.4	1556.8	1444.2	1337.8	1273.2	1233.6	1222.2	1217.6
25°	1759.1	1768.3	1792.6	1740.9	1645.8	1499.7	1369.7	1279.2	1226.7	1210.0	1207.7
27.5°	1905.1	1914.2	1902.9	1843.6	1705.9	1562.1	1413.8	1306.6	1238.2	1221.4	1213.8
30°	2024.5	2029.1	1991.1	1917.3	1780.4	1631.3	1471.6	1354.5	1274.7	1236.6	1231.3
32.5°	2158.4	2155.4	2081.6	1979.6	1843.6	1693.7	1537.8	1408.5	1309.7	1263.2	1254.9
35°	2305.2	2278.5	2148.5	2041.3	1886.8	1741.6	1597.8	1465.6	1365.9	1304.3	1293.6
37.5°	2436.0	2408.6	2234.4	2090.0	1930.2	1778.9	1645.0	1539.3	1451.9	1395.6	1391.0
40°	2537.9	2504.4	2299.8	2122.6	1951.5	1806.2	1700.6	1632.1	1574.3	1528.7	1528.7
42.5°	2620.1	2583.6	2363.7	2160.7	1970.5	1848.1	1793.3	1769.8	1757.6	1732.5	1741.6
45°	2699.2	2661.8	2416.2	2185.0	2013.2	1929.5	1937.1	1957.6	1994.1	1979.6	1992.6
47.5°	2774.4	2737.9	2475.5	2223.8	2095.3	2075.5	2115.1	2197.2	2268.7	2325.0	2364.4
50°	2900.7	2857.3	2582.0	2337.9	2224.5	2234.4	2348.5	2509.7	2626.1	2677.9	2674.8
52.5°	3140.3	3078.7	2811.0	2550.8	2409.4	2464.1	2598.7	2801.8	2953.9	2994.2	3010.1
55°	3433.0	3384.3	3141.8	2833.0	2730.4	2749.3	2916.6	3146.3	3263.4	3305.3	3319.0
57.5°	3604.9	3592.0	3439.9	3134.9	3035.3	3027.6	3245.9	3433.8	3534.9	3574.5	3562.3
59°	3645.2	3649.1	3562.3	3348.6	3211.8	3195.0	3417.1	3591.3	3675.7	3687.8	3681.7
60°	3641.4	3662.7	3652.0	3465.8	3323.6	3302.2	3489.3	3655.1	3725.9	3744.8	3723.5
62.5°	3563.1	3599.6	3700.7	3681.0	3576.7	3468.0	3556.3	3676.4	3722.0	3703.8	3687.8
65°	3385.1	3433.0	3573.8	3748.7	3648.3	3438.3	3284.0	3297.7	3366.8	3321.2	3343.3
67.5°	3077.9	3132.6	3207.2	3604.2	3458.2	3106.0	2840.6	2710.5	2677.9	2722.0	2791.9
70°	2503.7	2539.4	2728.0	3289.3	3036.8	2553.1	2220.0	2046.6	1988.8	2090.7	2162.2
72.5°	1765.9	1819.2	2067.9	2722.0	2498.4	2045.1	1680.0	1520.3	1462.5	1467.1	1529.4
75°	1074.6	1146.9	1445.0	2152.3	1969.0	1566.6	1280.0	1165.1	1147.6	1137.7	1127.1
77.5°	708.8	736.2	949.9	1485.3	1327.9	1114.2	960.6	1007.7	1060.2	1071.5	1085.2
80°	480.7	489.1	616.0	1042.0	874.6	822.9	776.5	887.5	987.1	1005.5	995.5
82.5°	295.8	320.9	429.7	702.8	697.4	673.1	613.8	700.4	766.6	778.1	798.5
85°	102.7	107.2	263.9	620.6	708.8	716.4	505.7	399.3	448.7	440.4	316.4
87.5°	44.1	49.4	82.1	415.2	479.9	397.0	231.2	205.3	158.1	89.0	85.9
90°	8.2	8.2	7.4	9.9	18.6	15.2	15.0	10.4	8.2	7.7	7.2
92.5°	4.1	4.1	4.1	4.6	5.1	5.6	6.1	6.1	6.1	6.1	6.1
95°	5.1	5.1	5.1	5.6	6.1	6.6	7.2	7.2	7.2	7.2	7.2
97.5°	7.2	7.2	7.2	7.7	8.2	8.2	8.2	8.7	9.2	9.2	9.2
100°	8.2	8.2	8.2	8.7	9.2	9.7	10.2	11.3	12.3	16.9	21.5
102.5°	11.3	11.3	11.3	12.3	13.3	15.9	18.4	23.0	27.6	34.3	40.9
105°	21.5	21.7	22.5	25.1	27.6	32.2	36.8	43.0	49.1	56.8	64.4
107.5°	41.9	42.1	43.0	46.5	50.1	54.7	59.3	67.0	74.7	82.3	90.0



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	67.5	67.9	69.6	72.6	75.7	82.3	89.0	96.7	104.3	110.5	116.6
112.5°	101.3	101.3	101.3	104.9	108.4	116.1	123.8	130.4	137.1	141.7	146.3
115°	143.2	143.0	142.2	146.3	150.4	156.5	162.6	167.3	171.9	174.9	178.0
117.5°	188.2	188.2	188.2	190.8	193.3	197.4	201.5	204.1	206.6	208.2	209.7
120°	230.2	229.8	228.1	229.7	231.2	234.8	238.3	240.4	242.4	245.5	248.6
122.5°	269.0	268.4	266.0	266.5	267.0	270.1	273.1	275.2	277.2	280.3	283.4
125°	304.8	304.0	300.7	301.8	302.8	304.3	305.9	308.9	312.0	314.6	317.1
127.5°	337.6	337.4	336.6	336.6	336.6	338.6	340.6	343.7	346.8	347.3	347.8
130°	371.3	370.9	369.3	369.8	370.3	372.4	374.4	376.4	378.5	379.5	380.5
132.5°	405.1	404.7	403.0	402.5	402.0	406.1	410.2	411.7	413.3	413.8	414.3
135°	438.8	438.2	435.8	435.8	435.8	438.8	441.9	443.4	445.0	446.0	447.0
137.5°	470.6	469.9	467.5	468.5	469.5	470.0	470.6	472.6	474.6	476.7	478.7
140°	499.2	498.6	496.1	497.2	498.2	499.2	500.2	501.2	502.3	505.3	508.4
142.5°	529.9	529.3	526.8	527.8	528.9	529.4	529.9	531.4	533.0	535.0	537.0
145°	562.6	561.8	558.5	557.5	556.5	558.0	559.6	561.1	562.6	563.1	563.6
147.5°	588.2	587.6	585.1	584.6	584.1	585.6	587.2	587.2	587.2	587.7	588.2
150°	608.7	608.0	605.6	606.1	606.6	606.6	606.6	606.6	606.6	606.6	606.6
152.5°	625.0	624.4	622.0	622.0	622.0	622.5	623.0	623.5	624.0	624.0	624.0
155°	643.4	642.6	639.3	639.3	639.3	640.4	641.4	642.9	644.5	643.4	642.4
157.5°	660.8	660.2	657.8	657.8	657.8	658.3	658.8	659.8	660.8	660.3	659.8
160°	678.2	677.6	675.1	674.6	674.1	672.6	671.1	670.5	670.0	670.0	670.0
162.5°	688.4	687.6	684.4	684.4	684.4	682.3	680.3	678.2	676.2	677.2	678.2
165°	696.6	696.0	693.6	692.5	691.5	691.5	691.5	690.0	688.4	688.4	688.4
167.5°	705.8	705.2	702.8	701.2	699.7	700.7	701.7	702.8	703.8	702.3	700.7
170°	714.0	713.4	711.0	709.4	707.9	707.9	707.9	708.4	708.9	707.9	706.9
172.5°	715.0	714.6	713.0	712.0	711.0	709.9	708.9	707.4	705.8	705.8	705.8
175°	716.1	715.7	714.0	713.5	713.0	712.0	711.0	708.9	706.9	706.3	705.8
177.5°	723.2	722.8	721.2	718.6	716.1	715.6	715.0	714.0	713.0	712.0	711.0
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9
2.5°	1673.1	1663.3	1669.4	1661.0	1647.4	1638.2	1627.5	1613.8	1597.8	1576.6	1555.3
5°	1769.8	1762.1	1743.1	1715.8	1677.7	1645.8	1607.8	1562.9	1525.6	1477.8	1432.8
7.5°	1778.1	1765.9	1730.9	1680.0	1621.5	1562.1	1517.2	1444.2	1397.1	1321.0	1270.1
10°	1702.1	1702.8	1667.8	1619.9	1559.1	1489.1	1424.5	1344.7	1275.4	1197.9	1112.7
12.5°	1590.3	1600.9	1602.5	1559.9	1500.6	1426.7	1354.5	1278.5	1192.6	1109.6	1031.2
15°	1463.2	1493.7	1496.0	1485.3	1454.1	1391.7	1325.6	1257.2	1169.7	1079.2	990.9
17.5°	1350.0	1378.8	1405.4	1429.8	1431.3	1401.6	1361.3	1302.8	1215.4	1108.9	1005.5
20°	1264.0	1295.2	1340.8	1385.7	1435.1	1450.3	1453.4	1416.1	1322.6	1192.6	1052.6
22.5°	1228.3	1264.8	1311.1	1395.6	1483.1	1537.1	1567.5	1567.5	1469.4	1317.3	1130.2
25°	1220.7	1250.4	1321.0	1426.0	1543.1	1637.4	1695.2	1734.0	1663.3	1477.8	1226.0
27.5°	1226.0	1266.3	1353.8	1461.0	1583.4	1704.3	1799.4	1867.1	1800.9	1587.2	1315.0
30°	1247.3	1307.3	1397.9	1508.9	1635.2	1763.0	1877.7	1963.7	1915.1	1686.8	1399.4
32.5°	1284.5	1357.6	1460.3	1560.6	1686.1	1824.5	1937.9	2051.1	2015.4	1756.1	1444.2
35°	1340.1	1426.0	1519.6	1620.7	1740.9	1879.3	2000.2	2148.5	2135.6	1842.7	1489.1
37.5°	1429.8	1518.1	1604.0	1690.6	1804.8	1939.3	2090.0	2279.3	2268.7	1971.3	1561.3
40°	1588.0	1639.7	1703.6	1759.1	1866.4	1994.9	2156.1	2387.3	2425.3	2081.6	1625.3
42.5°	1784.2	1814.6	1832.9	1848.1	1902.9	2023.8	2204.0	2459.6	2521.9	2163.7	1674.7
45°	2034.4	2025.3	1988.8	1953.8	1947.7	2040.5	2226.0	2512.8	2598.0	2243.5	1724.9
47.5°	2330.3	2310.5	2210.9	2096.0	2032.1	2071.0	2264.9	2591.1	2691.5	2348.5	1787.3
50°	2671.7	2625.4	2462.7	2268.7	2150.8	2156.9	2363.0	2699.9	2814.8	2485.5	1903.6
52.5°	2988.1	2905.3	2711.3	2455.0	2286.2	2306.7	2539.4	2925.0	3067.2	2712.0	2099.1
55°	3267.2	3160.8	2951.6	2671.0	2518.1	2553.9	2821.6	3223.1	3357.7	2982.0	2296.8
57.5°	3504.5	3391.2	3185.1	2937.9	2747.9	2777.4	3073.4	3499.9	3590.5	3224.6	2486.2
59°	3612.6	3500.7	3310.6	3082.5	2904.5	2966.9	3251.2	3637.6	3676.4	3318.2	2558.4
60°	3665.0	3553.2	3385.9	3163.1	3000.3	3082.5	3345.6	3741.9	3708.4	3331.9	2585.8
62.5°	3661.2	3582.9	3472.6	3320.5	3290.8	3427.7	3652.0	3875.7	3730.4	3292.4	2603.3
65°	3360.8	3353.9	3285.5	3303.0	3427.0	3638.4	3776.0	3897.7	3684.8	3134.9	2518.9
67.5°	2803.3	2831.4	2840.6	2947.8	3237.5	3596.6	3717.5	3741.0	3486.3	2798.0	2256.5
70°	2164.5	2102.1	2204.8	2394.1	2811.7	3274.1	3446.0	3363.9	3080.1	2343.2	1842.7
72.5°	1532.5	1550.7	1698.3	1943.9	2369.1	2848.2	3117.4	2669.5	2317.3	1753.7	1306.6
75°	1153.0	1238.9	1310.4	1525.6	1924.2	2439.7	2661.8	1835.2	1509.7	1209.2	854.9
77.5°	1105.1	1098.2	1043.4	1089.0	1387.2	1708.9	1899.0	1145.4	945.3	790.9	516.4
80°	1021.4	962.8	863.2	819.1	873.8	1097.4	1205.4	736.2	628.9	552.9	291.2
82.5°	792.5	752.9	647.9	645.0	728.5	779.6	829.0	521.7	473.0	448.0	178.7
85°	502.7	516.4	529.4	645.7	808.4	817.5	645.0	317.9	249.5	351.4	114.1
87.5°	149.0	242.6	294.3	499.7	728.5	730.9	485.2	104.2	93.5	109.6	66.2
90°	7.2	7.2	8.2	9.2	9.2	9.2	8.9	7.2	7.2	7.2	8.2
92.5°	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.2	7.7	8.2	7.7	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	10.7	12.3	11.3	10.2	9.7	9.2	8.7	8.2	8.2	8.2	8.7
100°	25.6	29.7	28.1	26.6	25.1	23.5	21.5	19.4	19.4	19.4	21.5
102.5°	46.0	51.1	49.6	48.1	45.5	43.0	41.4	39.9	38.9	39.9	41.4
105°	69.0	73.7	72.6	71.6	69.0	66.5	64.4	62.4	62.4	62.4	64.4
107.5°	93.6	97.2	96.7	96.2	94.1	92.1	90.5	89.0	88.0	89.0	90.5

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CATALOG NUMBER: IST-AF-800-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	119.7	122.8	123.3	123.8	122.8	121.7	120.2	118.7	119.7	118.7	120.2
112.5°	148.8	151.4	152.4	153.4	152.9	152.4	151.4	150.4	150.4	150.4	151.4
115°	180.6	183.1	184.6	186.2	184.6	183.1	182.1	181.1	182.1	181.1	182.1
117.5°	212.8	215.8	217.9	219.9	217.4	214.8	213.8	212.8	213.8	212.8	213.8
120°	250.1	251.6	253.7	255.7	253.2	250.6	249.6	248.6	248.6	248.6	249.6
122.5°	284.4	285.4	287.4	289.5	286.9	284.4	283.4	282.3	283.4	282.3	283.4
125°	318.6	320.2	321.2	322.2	319.7	317.1	317.1	317.1	317.1	317.1	317.1
127.5°	350.4	352.9	353.4	353.9	353.9	353.9	353.4	352.9	355.0	352.9	353.4
130°	383.1	385.7	387.7	389.7	389.7	389.7	388.7	387.7	388.7	387.7	388.7
132.5°	417.4	420.4	423.0	425.5	424.5	423.5	423.5	423.5	424.5	423.5	423.5
135°	450.1	453.2	455.7	458.3	457.8	457.3	458.8	460.3	461.4	460.3	458.8
137.5°	481.3	483.9	484.9	485.9	486.4	486.9	489.5	492.0	493.1	492.0	489.5
140°	509.9	511.5	512.5	513.5	514.5	515.6	518.1	520.7	522.7	520.7	518.1
142.5°	538.1	539.1	542.2	545.2	545.2	545.2	545.7	546.3	548.3	546.3	545.7
145°	566.2	568.8	571.8	574.9	574.4	573.9	572.3	570.8	572.9	570.8	572.3
147.5°	590.8	593.3	595.9	598.4	598.9	599.4	597.9	596.4	598.4	596.4	597.9
150°	608.7	610.7	612.2	613.8	615.3	616.8	618.4	619.9	624.0	619.9	618.4
152.5°	624.5	625.0	626.6	628.1	630.1	632.2	634.7	637.3	642.4	637.3	634.7
155°	641.4	640.4	642.9	645.5	648.0	650.6	651.6	652.6	655.7	652.6	651.6
157.5°	659.3	658.8	660.8	662.9	663.9	664.9	664.9	664.9	670.0	664.9	664.9
160°	671.6	673.1	676.2	679.2	677.7	676.2	675.7	675.1	681.3	675.1	675.7
162.5°	680.3	682.3	684.4	686.4	685.9	685.4	684.4	683.3	689.5	683.3	684.4
165°	687.9	687.4	690.0	692.5	694.1	695.6	694.6	693.6	697.7	693.6	694.6
167.5°	697.1	693.6	696.6	699.7	701.7	703.8	703.8	703.8	709.9	703.8	703.8
170°	704.3	701.7	703.3	704.8	707.4	709.9	711.0	712.0	717.1	712.0	711.0
172.5°	705.3	704.8	706.3	707.9	708.9	709.9	711.0	712.0	717.1	712.0	711.0
175°	705.8	705.8	708.4	711.0	711.5	712.0	711.0	709.9	715.0	709.9	711.0
177.5°	710.4	709.9	712.5	715.0	716.1	717.1	715.6	714.0	718.1	714.0	715.6
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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CATALOG NUMBER: IST-AF-800-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9
2.5°	1533.2	1530.2	1508.9	1473.2	1476.2	1459.4	1438.2	1403.9	1397.1	1378.1	1375.1
5°	1394.8	1359.1	1312.7	1256.4	1235.1	1206.2	1176.5	1155.2	1128.6	1104.3	1137.0
7.5°	1210.0	1157.6	1103.6	1044.2	1010.0	962.8	937.7	889.0	853.3	846.5	818.4
10°	1055.6	989.5	927.8	874.6	810.7	766.6	734.7	708.1	683.7	654.1	635.8
12.5°	953.0	878.4	813.0	746.9	716.4	680.0	660.1	635.0	600.1	575.0	550.7
15°	906.5	825.9	754.4	696.6	652.5	618.3	583.3	552.9	514.9	486.7	458.6
17.5°	900.5	795.5	705.0	640.4	592.5	555.2	508.8	468.5	422.1	390.9	367.3
20°	907.4	772.7	659.4	575.0	526.3	460.8	417.6	368.1	322.4	281.4	244.2
22.5°	934.7	760.6	614.5	521.7	449.5	374.9	328.6	265.5	226.7	187.1	172.7
25°	972.0	752.9	575.7	463.2	371.9	298.1	235.0	182.5	165.0	155.2	149.9
27.5°	1011.5	739.3	532.3	409.2	309.5	219.8	175.6	153.6	146.8	141.5	137.7
30°	1041.2	712.6	479.2	351.4	246.4	187.8	156.7	142.2	137.7	131.6	127.8
32.5°	1054.0	671.6	431.2	296.7	207.7	161.2	136.9	128.5	124.0	118.7	116.4
35°	1051.8	625.1	406.9	275.3	190.2	143.0	120.2	114.9	108.7	103.4	98.1
37.5°	1054.0	582.6	387.9	270.0	182.5	129.3	109.6	105.7	101.2	95.9	91.2
40°	1063.3	558.9	378.7	258.6	176.5	124.0	101.2	97.4	96.6	90.5	86.7
42.5°	1067.0	561.3	374.2	242.6	161.2	122.4	101.2	92.8	92.8	88.2	83.7
45°	1062.4	578.0	377.3	233.4	149.9	114.9	106.5	92.8	90.5	86.7	82.1
47.5°	1076.1	590.1	377.3	232.0	142.2	107.2	101.2	101.9	92.1	87.5	80.6
50°	1132.4	601.6	369.6	229.7	139.9	99.6	95.9	100.4	103.4	89.0	81.4
52.5°	1232.0	616.0	361.2	225.9	136.9	93.5	89.0	94.3	105.7	93.5	81.4
55°	1333.9	641.9	355.9	219.8	132.4	89.7	80.6	90.5	96.6	92.8	80.6
57.5°	1442.8	670.0	350.6	205.3	121.7	85.9	77.5	79.1	86.7	89.7	78.4
59°	1475.4	683.7	346.1	194.7	112.5	82.9	75.3	73.0	77.5	85.9	76.8
60°	1499.0	684.5	340.7	185.6	107.2	81.4	73.8	70.7	72.2	88.2	77.5
62.5°	1501.3	683.7	324.0	166.5	96.6	78.4	71.5	67.7	66.2	73.8	79.1
65°	1407.0	651.8	293.6	156.7	97.4	75.3	67.7	64.7	61.6	63.1	68.4
67.5°	1230.5	569.7	261.7	159.0	102.7	73.0	64.7	61.6	59.3	57.8	60.0
70°	930.9	473.0	252.5	164.3	107.2	71.5	60.0	57.1	55.5	54.7	54.7
72.5°	645.0	389.4	242.6	168.1	111.0	70.7	55.5	52.5	51.8	50.9	50.9
75°	415.2	282.9	200.8	143.0	101.2	64.7	50.2	47.2	46.4	45.6	46.4
77.5°	245.6	197.7	147.5	100.4	73.8	51.8	43.4	41.0	41.0	41.0	41.8
80°	136.2	117.1	98.1	64.7	52.5	38.8	35.7	33.5	33.5	34.3	35.7
82.5°	81.4	64.7	55.5	41.0	35.7	27.4	26.6	25.1	25.9	26.6	28.1
85°	53.2	41.0	33.5	27.4	24.3	17.5	15.2	16.0	16.8	18.2	19.0
87.5°	29.7	22.8	18.2	16.0	14.4	7.6	6.0	6.0	7.6	9.1	10.6
90°	9.2	9.2	9.2	8.2	7.2	7.2	7.2	7.7	8.2	8.2	8.2
92.5°	6.1	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.7	8.2	7.7	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.2	9.7	10.2	11.3	12.3	10.7	9.2	9.2	9.2	8.7	8.2
100°	23.5	25.1	26.6	28.1	29.7	25.6	21.5	16.9	12.3	11.3	10.2
102.5°	43.0	45.5	48.1	49.6	51.1	46.0	40.9	34.3	27.6	23.0	18.4
105°	66.5	69.0	71.6	72.6	73.7	69.0	64.4	56.8	49.1	43.0	36.8
107.5°	92.1	94.1	96.2	96.7	97.2	93.6	90.0	82.3	74.7	67.0	59.3



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	121.7	122.8	123.8	123.3	122.8	119.7	116.6	110.5	104.3	96.7	89.0	0°
112.5°	152.4	152.9	153.4	152.4	151.4	148.8	146.3	141.7	137.1	130.4	123.8	2.5°
115°	183.1	184.6	186.2	184.6	183.1	180.6	178.0	174.9	171.9	167.3	162.6	5°
117.5°	214.8	217.4	219.9	217.9	215.8	212.8	209.7	208.2	206.6	204.1	201.5	7.5°
120°	250.6	253.2	255.7	253.7	251.6	250.1	248.6	245.5	242.4	240.4	238.3	10°
122.5°	284.4	286.9	289.5	287.4	285.4	284.4	283.4	280.3	277.2	275.2	273.1	12.5°
125°	317.1	319.7	322.2	321.2	320.2	318.6	317.1	314.6	312.0	308.9	305.9	15°
127.5°	353.9	353.9	353.9	353.4	352.9	350.4	347.8	347.3	346.8	343.7	340.6	17.5°
130°	389.7	389.7	389.7	387.7	385.7	383.1	380.5	379.5	378.5	376.4	374.4	20°
132.5°	423.5	424.5	425.5	423.0	420.4	417.4	414.3	413.8	413.3	411.7	410.2	22.5°
135°	457.3	457.8	458.3	455.7	453.2	450.1	447.0	446.0	445.0	443.4	441.9	25°
137.5°	486.9	486.4	485.9	484.9	483.9	481.3	478.7	476.7	474.6	472.6	470.6	27.5°
140°	515.6	514.5	513.5	512.5	511.5	509.9	508.4	505.3	502.3	501.2	500.2	30°
142.5°	545.2	545.2	545.2	542.2	539.1	538.1	537.0	535.0	533.0	531.4	529.9	32.5°
145°	573.9	574.4	574.9	571.8	568.8	566.2	563.6	563.1	562.6	561.1	559.6	35°
147.5°	599.4	598.9	598.4	595.9	593.3	590.8	588.2	587.7	587.2	587.2	587.2	37.5°
150°	616.8	615.3	613.8	612.2	610.7	608.7	606.6	606.6	606.6	606.6	606.6	40°
152.5°	632.2	630.1	628.1	626.6	625.0	624.5	624.0	624.0	624.0	623.5	623.0	42.5°
155°	650.6	648.0	645.5	642.9	640.4	641.4	642.4	643.4	644.5	642.9	641.4	45°
157.5°	664.9	663.9	662.9	660.8	658.8	659.3	659.8	660.3	660.8	659.8	658.8	47.5°
160°	676.2	677.7	679.2	676.2	673.1	671.6	670.0	670.0	670.0	670.5	671.1	50°
162.5°	685.4	685.9	686.4	684.4	682.3	680.3	678.2	677.2	676.2	678.2	680.3	52.5°
165°	695.6	694.1	692.5	690.0	687.4	687.9	688.4	688.4	688.4	690.0	691.5	55°
167.5°	703.8	701.7	699.7	696.6	693.6	697.1	700.7	702.3	703.8	702.8	701.7	57.5°
170°	709.9	707.4	704.8	703.3	701.7	704.3	706.9	707.9	708.9	708.4	707.9	59°
172.5°	709.9	708.9	707.9	706.3	704.8	705.3	705.8	705.8	705.8	707.4	708.9	60°
175°	712.0	711.5	711.0	708.4	705.8	705.8	705.8	706.3	706.9	708.9	711.0	62.5°
177.5°	717.1	716.1	715.0	712.5	709.9	710.4	711.0	712.0	713.0	714.0	715.0	65°
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
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	110°	82.3
1385.7	1363.6	1340.1	1322.6	1330.1	1305.1	1307.3	1300.5	1297.5	1296.0	1280.0	112.5°	116.1
1097.4	1105.8	1070.8	1074.6	1085.2	1059.5	1042.0	1070.8	1067.0	1041.2	1055.6	115°	156.5
790.9	793.2	777.2	741.5	741.5	760.6	767.4	781.0	790.2	822.1	802.4	117.5°	197.4
604.7	583.3	567.3	551.4	542.3	523.2	527.8	544.5	555.2	573.5	587.9	120°	234.8
525.5	502.0	473.8	449.5	436.6	419.1	407.6	403.9	407.6	396.2	397.0	122.5°	270.1
436.6	415.2	384.1	371.1	346.8	333.1	325.5	315.6	308.0	292.1	285.2	125°	304.3
338.4	310.3	278.3	278.3	260.9	249.5	246.4	244.2	239.6	231.2	222.8	127.5°	338.6
225.2	206.8	188.6	179.5	181.0	179.5	174.9	182.5	182.5	185.6	184.0	130°	372.4
164.3	161.2	154.4	149.0	146.0	145.3	146.0	148.3	152.8	156.7	160.5	132.5°	406.1
147.5	146.0	139.9	134.6	133.9	132.4	132.4	134.6	135.3	136.2	135.3	135°	438.8
136.9	133.9	128.5	124.7	123.2	122.4	123.2	120.9	119.4	120.2	119.4	137.5°	470.0
124.0	121.7	116.4	113.3	112.5	112.5	110.3	109.6	108.0	108.7	108.0	140°	499.2
114.1	111.0	105.7	101.9	101.9	101.2	101.9	101.2	100.4	99.6	99.6	142.5°	529.4
95.9	95.0	89.7	88.2	89.0	91.2	91.2	91.2	92.1	91.2	91.2	145°	558.0
89.0	88.2	82.9	79.1	78.4	78.4	78.4	79.9	82.1	82.9	84.4	147.5°	585.6
84.4	83.7	78.4	75.3	73.8	73.0	72.2	72.2	73.0	76.0	78.4	150°	606.6
81.4	79.9	74.6	70.7	70.0	69.3	68.4	68.4	68.4	69.3	71.5	152.5°	622.5
79.9	77.5	71.5	67.7	66.2	65.4	65.4	66.2	65.4	65.4	65.4	155°	640.4
77.5	76.0	70.0	65.4	63.9	63.9	63.1	63.1	63.1	61.6	61.6	157.5°	658.3
76.8	74.6	68.4	63.9	62.4	61.6	60.9	61.6	60.0	59.3	58.5	160°	672.6
75.3	72.2	65.4	61.6	60.9	59.3	58.5	58.5	58.5	57.1	57.1	162.5°	682.3
74.6	70.7	63.9	60.0	58.5	57.1	56.3	56.3	57.8	56.3	56.3	165°	691.5
73.8	68.4	61.6	57.1	56.3	54.7	54.0	54.7	57.1	55.5	54.7	167.5°	700.7
70.7	66.9	60.0	56.3	54.7	53.2	52.5	53.2	54.7	54.7	54.7	170°	707.9
69.3	65.4	58.5	54.7	54.0	52.5	51.8	51.8	54.0	54.0	53.2	172.5°	709.9
66.9	63.9	57.1	52.5	50.9	50.9	50.2	50.2	50.9	50.9	51.8	175°	712.0
63.9	62.4	55.5	50.2	49.4	48.7	48.7	48.7	48.7	50.2	50.2	177.5°	715.6
60.9	60.0	53.2	48.7	47.2	47.2	47.2	47.2	47.2	47.9	48.7	180°	716.1
56.3	56.3	50.2	45.6	44.9	44.1	44.1	44.1	44.1	44.9	45.6		
51.8	52.5	46.4	41.8	41.0	41.0	41.0	41.0	41.8	41.8	42.6		
47.2	47.9	41.8	37.2	37.2	37.2	37.2	37.2	37.2	37.2	38.8		
42.6	42.6	35.7	31.2	31.9	32.7	33.5	32.7	32.7	33.5	35.7		
36.5	35.7	29.7	25.9	25.9	27.4	28.1	27.4	28.1	28.1	31.2		
28.9	28.9	22.8	19.0	19.0	22.1	22.1	22.1	22.8	23.5	25.9		
22.1	21.3	16.0	12.9	12.9	15.2	16.0	16.8	17.5	18.2	19.7		
12.9	12.9	8.4	5.3	6.0	6.9	9.1	9.1	9.1	10.6	12.9		
7.7	7.9	6.1	5.1	5.1	5.1	6.1	7.2	7.7	8.2	8.2		
5.6	5.1	4.6	4.1	4.1	4.1	4.6	5.1	5.6	6.1	6.1		
6.6	6.1	5.6	5.1	5.1	5.1	5.6	6.1	6.6	7.2	7.2		
8.2	8.2	7.7	7.2	7.2	7.2	7.7	8.2	8.2	8.2	8.7		
9.7	9.2	8.7	8.2	8.2	8.2	8.7	9.2	9.7	10.2	11.3		
15.9	13.3	12.3	11.3	11.3	11.3	12.3	13.3	15.9	18.4	23.0		
32.2	27.6	25.1	22.5	21.5	22.5	25.1	27.6	32.2	36.8	43.0		
54.7	50.1	46.5	43.0	41.9	43.0	46.5	50.1	54.7	59.3	67.0		

'227205
 IST-AF-800-LED-E1-SLL-ULG

REPORT NUMBER: P227205
 CATALOG NUMBER: IST-AF-80

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
75.7	72.6	69.6	67.5	69.6	72.6	75.7	82.3	89.0	96.7	0°	1492.9	1492.9
108.4	104.9	101.3	101.3	101.3	104.9	108.4	116.1	123.8	130.4	2.5°	1293.6	1292.9
150.4	146.3	142.2	143.2	142.2	146.3	150.4	156.5	162.6	167.3	5°	1061.7	1054.9
193.3	190.8	188.2	188.2	188.2	190.8	193.3	197.4	201.5	204.1	7.5°	822.9	848.0
231.2	229.7	228.1	230.2	228.1	229.7	231.2	234.8	238.3	240.4	10°	593.2	610.7
267.0	266.5	266.0	269.0	266.0	266.5	267.0	270.1	273.1	275.2	12.5°	413.0	422.1
302.8	301.8	300.7	304.8	300.7	301.8	302.8	304.3	305.9	308.9	15°	284.5	302.7
336.6	336.6	336.6	337.6	336.6	336.6	336.6	338.6	340.6	343.7	17.5°	221.3	223.6
370.3	369.8	369.3	371.3	369.3	369.8	370.3	372.4	374.4	376.4	20°	182.5	184.0
402.0	402.5	403.0	405.1	403.0	402.5	402.0	406.1	410.2	411.7	22.5°	162.0	165.0
435.8	435.8	435.8	438.8	435.8	435.8	435.8	438.8	441.9	443.4	25°	136.2	139.2
469.5	468.5	467.5	470.6	467.5	468.5	469.5	470.0	470.6	472.6	27.5°	120.2	123.2
498.2	497.2	496.1	499.2	496.1	497.2	498.2	499.2	500.2	501.2	30°	110.3	111.8
528.9	527.8	526.8	529.9	526.8	527.8	528.9	529.4	529.9	531.4	32.5°	100.4	100.4
556.5	557.5	558.5	562.6	558.5	557.5	556.5	558.0	559.6	561.1	35°	92.1	92.8
584.1	584.6	585.1	588.2	585.1	584.6	584.1	585.6	587.2	587.2	37.5°	85.9	87.5
606.6	606.1	605.6	608.7	605.6	606.1	606.6	606.6	606.6	606.6	40°	80.6	81.4
622.0	622.0	622.0	625.0	622.0	622.0	622.0	622.5	623.0	623.5	42.5°	73.0	74.6
639.3	639.3	639.3	643.4	639.3	639.3	639.3	640.4	641.4	642.9	45°	66.2	66.9
657.8	657.8	657.8	660.8	657.8	657.8	657.8	658.3	658.8	659.8	47.5°	61.6	61.6
674.1	674.6	675.1	678.2	675.1	674.6	674.1	672.6	671.1	670.5	50°	58.5	59.3
684.4	684.4	684.4	688.4	684.4	684.4	684.4	682.3	680.3	678.2	52.5°	57.1	57.8
691.5	692.5	693.6	696.6	693.6	692.5	691.5	691.5	691.5	690.0	55°	56.3	57.8
699.7	701.2	702.8	705.8	702.8	701.2	699.7	700.7	701.7	702.8	57.5°	56.3	57.1
707.9	709.4	711.0	714.0	711.0	709.4	707.9	707.9	707.9	708.4	59°	55.5	56.3
711.0	712.0	713.0	715.0	713.0	712.0	711.0	709.9	708.9	707.4	60°	55.5	57.1
713.0	713.5	714.0	716.1	714.0	713.5	713.0	712.0	711.0	708.9	62.5°	53.2	54.7
716.1	718.6	721.2	723.2	721.2	718.6	716.1	715.6	715.0	714.0	65°	51.8	53.2
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	49.4	51.8
										70°	47.2	49.4
										72.5°	44.1	47.2
										75°	41.0	43.4
										77.5°	37.2	39.6
										80°	32.7	33.5
										82.5°	27.4	27.4
										85°	20.6	18.2
										87.5°	11.5	12.2
										90°	8.2	7.7
										92.5°	6.1	6.1
										95°	7.2	7.2
										97.5°	9.2	9.2
										100°	12.3	16.9
										102.5°	27.6	34.3
										105°	49.1	56.8
										107.5°	74.7	82.3



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0-LED-E1-SLL-ULG

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	110°	104.3	110.5	116.6
1276.9	1276.9	1299.8	1302.0	1275.4	1282.3	1295.2	1280.0	1296.7	112.5°	137.1	141.7	146.3
1071.5	1062.4	1063.3	1057.1	1067.8	1055.6	1068.6	1064.0	1060.2	115°	171.9	174.9	178.0
832.1	848.0	836.6	814.6	832.1	818.4	792.5	794.7	765.9	117.5°	206.6	208.2	209.7
625.1	613.8	607.6	597.0	568.9	574.2	545.3	549.8	559.8	120°	242.4	245.5	248.6
431.2	422.9	432.7	425.9	414.5	416.8	422.9	428.9	444.9	122.5°	277.2	280.3	283.4
302.7	298.9	296.7	301.2	314.1	320.9	330.8	349.1	358.2	125°	312.0	314.6	317.1
227.4	228.1	225.9	232.7	243.4	248.7	250.9	252.5	263.1	127.5°	346.8	347.3	347.8
187.8	190.9	190.2	192.4	189.3	186.3	188.6	184.0	180.2	130°	378.5	379.5	380.5
164.3	165.0	161.2	160.5	155.9	152.1	149.0	149.0	147.5	132.5°	413.3	413.8	414.3
139.2	139.9	136.2	136.2	135.3	137.7	136.2	133.1	132.4	135°	445.0	446.0	447.0
124.7	123.2	120.9	120.9	119.4	119.4	120.2	120.9	120.2	137.5°	474.6	476.7	478.7
111.8	110.3	109.6	110.3	109.6	110.3	111.0	110.3	111.0	140°	502.3	505.3	508.4
102.7	101.2	101.2	101.9	101.2	101.9	101.9	101.9	101.2	142.5°	533.0	535.0	537.0
95.0	93.5	93.5	93.5	92.8	91.2	89.7	87.5	85.2	145°	562.6	563.1	563.6
89.0	88.2	86.7	85.9	83.7	79.1	77.5	77.5	77.5	147.5°	587.2	587.7	588.2
83.7	82.1	81.4	78.4	75.3	73.8	73.8	73.8	73.8	150°	606.6	606.6	606.6
76.8	74.6	73.0	72.2	71.5	71.5	70.7	70.7	70.7	152.5°	624.0	624.0	624.0
68.4	67.7	67.7	68.4	68.4	68.4	68.4	67.7	68.4	155°	644.5	643.4	642.4
63.1	63.1	63.9	64.7	65.4	66.2	66.9	66.2	66.9	157.5°	660.8	660.3	659.8
60.9	60.9	60.9	62.4	63.1	63.9	65.4	65.4	65.4	160°	670.0	670.0	670.0
59.3	59.3	60.0	60.9	61.6	62.4	63.1	63.9	64.7	162.5°	676.2	677.2	678.2
58.5	59.3	58.5	59.3	60.0	61.6	62.4	62.4	63.1	165°	688.4	688.4	688.4
58.5	58.5	58.5	58.5	60.0	60.9	60.0	60.9	61.6	167.5°	703.8	702.3	700.7
58.5	58.5	57.8	58.5	59.3	60.0	59.3	59.3	60.9	170°	708.9	707.9	706.9
57.8	58.5	57.8	57.8	58.5	59.3	58.5	59.3	60.0	172.5°	705.8	705.8	705.8
56.3	57.1	56.3	57.1	57.1	57.8	57.8	57.8	58.5	175°	706.9	706.3	705.8
54.7	54.7	54.7	55.5	55.5	56.3	56.3	57.1	56.3	177.5°	713.0	712.0	711.0
53.2	53.2	53.2	54.0	54.0	54.7	55.5	54.7	54.7	180°	716.1	716.1	716.1
51.8	50.9	50.2	50.9	51.8	51.8	52.5	51.8	52.5				
49.4	48.7	47.9	47.9	48.7	48.7	49.4	48.7	48.7				
45.6	45.6	44.1	44.1	44.1	44.1	44.9	44.1	43.4				
41.0	41.0	39.6	39.6	39.6	39.6	38.8	38.8	38.8				
34.3	35.0	35.0	34.3	34.3	33.5	33.5	32.7	31.9				
25.9	27.4	28.1	28.1	28.1	28.1	28.1	26.6	25.1				
18.2	20.6	22.8	22.8	22.1	22.1	22.1	19.7	17.5				
11.5	13.7	14.4	16.0	13.7	12.9	12.9	11.5	10.6				
7.2	7.2	8.7	8.9	11.5	11.5	12.3	9.7	7.9				
6.1	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1				
7.2	7.2	7.2	7.7	8.2	7.7	7.2	7.2	7.2				
9.2	10.7	12.3	11.3	10.2	9.7	9.2	8.7	8.2				
21.5	25.6	29.7	28.1	26.6	25.1	23.5	21.5	19.4				
40.9	46.0	51.1	49.6	48.1	45.5	43.0	41.4	39.9				
64.4	69.0	73.7	72.6	71.6	69.0	66.5	64.4	62.4				
90.0	93.6	97.2	96.7	96.2	94.1	92.1	90.5	89.0				



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CATALOG NUMBER: IST-AF-800-LED-E1-SLL-ULG

SLL-ULG

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
119.7	122.8	123.3	123.8	122.8	121.7	120.2	118.7	0°	1492.9	1492.9	1492.9	1492.9
148.8	151.4	152.4	153.4	152.9	152.4	151.4	150.4	2.5°	1282.3	1310.4	1314.2	1318.0
180.6	183.1	184.6	186.2	184.6	183.1	182.1	181.1	5°	1054.0	1082.3	1066.2	1073.1
212.8	215.8	217.9	219.9	217.4	214.8	213.8	212.8	7.5°	769.7	751.4	775.0	789.4
250.1	251.6	253.7	255.7	253.2	250.6	249.6	248.6	10°	562.0	583.3	592.5	609.2
284.4	285.4	287.4	289.5	286.9	284.4	283.4	282.3	12.5°	466.2	479.9	496.6	523.2
318.6	320.2	321.2	322.2	319.7	317.1	317.1	317.1	15°	378.0	387.9	409.2	435.1
350.4	352.9	353.4	353.9	353.9	353.9	353.4	352.9	17.5°	275.3	289.8	303.4	324.8
383.1	385.7	387.7	389.7	389.7	389.7	388.7	387.7	20°	184.8	190.9	207.7	217.5
417.4	420.4	423.0	425.5	424.5	423.5	423.5	423.5	22.5°	148.3	150.6	153.6	162.0
450.1	453.2	455.7	458.3	457.8	457.3	458.8	460.3	25°	133.1	134.6	136.9	139.9
481.3	483.9	484.9	485.9	486.4	486.9	489.5	492.0	27.5°	120.9	121.7	124.0	125.5
509.9	511.5	512.5	513.5	514.5	515.6	518.1	520.7	30°	110.3	109.6	110.3	112.5
538.1	539.1	542.2	545.2	545.2	545.2	545.7	546.3	32.5°	98.9	98.9	100.4	100.4
566.2	568.8	571.8	574.9	574.4	573.9	572.3	570.8	35°	85.2	84.4	85.9	88.2
590.8	593.3	595.9	598.4	598.9	599.4	597.9	596.4	37.5°	78.4	79.1	80.6	82.1
608.7	610.7	612.2	613.8	615.3	616.8	618.4	619.9	40°	74.6	75.3	76.8	78.4
624.5	625.0	626.6	628.1	630.1	632.2	634.7	637.3	42.5°	70.7	72.2	73.8	76.0
641.4	640.4	642.9	645.5	648.0	650.6	651.6	652.6	45°	68.4	70.0	72.2	74.6
659.3	658.8	660.8	662.9	663.9	664.9	664.9	664.9	47.5°	67.7	69.3	71.5	74.6
671.6	673.1	676.2	679.2	677.7	676.2	675.7	675.1	50°	66.2	68.4	70.7	73.8
680.3	682.3	684.4	686.4	685.9	685.4	684.4	683.3	52.5°	66.2	67.7	70.0	73.8
687.9	687.4	690.0	692.5	694.1	695.6	694.6	693.6	55°	63.9	66.2	68.4	72.2
697.1	693.6	696.6	699.7	701.7	703.8	703.8	703.8	57.5°	62.4	63.9	66.9	71.5
704.3	701.7	703.3	704.8	707.4	709.9	711.0	712.0	59°	61.6	63.1	66.2	70.7
705.3	704.8	706.3	707.9	708.9	709.9	711.0	712.0	60°	60.0	62.4	65.4	70.0
705.8	705.8	708.4	711.0	711.5	712.0	711.0	709.9	62.5°	58.5	60.9	63.9	68.4
710.4	709.9	712.5	715.0	716.1	717.1	715.6	714.0	65°	56.3	59.3	62.4	65.4
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	54.7	56.3	59.3	62.4
								70°	51.8	53.2	55.5	57.8
								72.5°	47.9	48.7	50.2	52.5
								75°	42.6	43.4	44.1	46.4
								77.5°	37.2	37.2	38.1	41.0
								80°	31.2	31.2	31.9	33.5
								82.5°	23.5	23.5	25.1	27.4
								85°	16.8	16.0	18.2	19.7
								87.5°	9.9	9.1	9.9	9.9
								90°	7.9	9.4	9.7	10.7
								92.5°	6.1	6.1	6.1	6.1
								95°	7.2	7.2	7.2	7.2
								97.5°	8.2	8.2	8.7	9.2
								100°	19.4	19.4	21.5	23.5
								102.5°	38.9	39.9	41.4	43.0
								105°	62.4	62.4	64.4	66.5
								107.5°	88.0	89.0	90.5	92.1



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CATALOG NUMBER: IST-AF-800-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	110°	119.7	118.7	120.2	121.7	122.8
1333.2	1325.6	1331.7	1355.3	1363.6	1374.2	1410.0	112.5°	150.4	150.4	151.4	152.4	152.9
1089.9	1099.8	1089.9	1137.7	1140.1	1172.0	1184.9	115°	182.1	181.1	182.1	183.1	184.6
800.9	813.8	835.0	867.1	876.2	921.8	960.6	117.5°	213.8	212.8	213.8	214.8	217.4
625.1	641.9	671.6	691.3	711.1	737.8	768.8	120°	248.6	248.6	249.6	250.6	253.2
555.2	572.6	598.5	623.6	651.8	672.3	698.2	122.5°	283.4	282.3	283.4	284.4	286.9
463.9	491.3	516.4	549.1	572.6	610.0	640.4	125°	317.1	317.1	317.1	317.1	319.7
354.5	392.4	417.6	457.1	492.9	525.5	566.6	127.5°	355.0	352.9	353.4	353.9	353.9
246.4	276.1	308.0	350.6	397.0	441.9	496.6	130°	388.7	387.7	388.7	389.7	389.7
169.6	185.6	209.9	254.0	302.0	366.6	425.9	132.5°	424.5	423.5	423.5	423.5	424.5
144.5	150.6	159.7	181.0	221.3	292.1	357.4	135°	461.4	460.3	458.8	457.3	457.8
128.5	133.1	139.2	149.9	171.1	219.8	292.1	137.5°	493.1	492.0	489.5	486.9	486.4
117.8	123.2	129.3	136.9	148.3	181.8	235.8	140°	522.7	520.7	518.1	515.6	514.5
103.4	107.2	112.5	120.9	129.3	155.9	208.4	142.5°	548.3	546.3	545.7	545.2	545.2
91.2	95.9	102.7	108.7	117.1	138.4	189.3	145°	572.9	570.8	572.3	573.9	574.4
85.2	89.7	95.9	101.2	107.2	124.7	175.6	147.5°	598.4	596.4	597.9	599.4	598.9
81.4	85.9	92.1	96.6	100.4	120.2	170.3	150°	624.0	619.9	618.4	616.8	615.3
79.1	84.4	89.7	92.8	100.4	122.4	157.4	152.5°	642.4	637.3	634.7	632.2	630.1
78.4	83.7	89.7	95.0	110.3	115.6	149.0	155°	655.7	652.6	651.6	650.6	648.0
79.1	83.7	91.2	106.5	107.2	109.6	139.9	157.5°	670.0	664.9	664.9	664.9	663.9
79.1	85.9	101.9	111.0	101.9	103.4	131.6	160°	681.3	675.1	675.7	676.2	677.7
79.9	89.0	105.7	103.4	98.9	96.6	122.4	162.5°	689.5	683.3	684.4	685.4	685.9
79.9	87.5	101.2	97.4	91.2	92.1	111.8	165°	697.7	693.6	694.6	695.6	694.1
77.5	87.5	97.4	88.2	83.7	87.5	102.7	167.5°	709.9	703.8	703.8	703.8	701.7
76.0	89.7	86.7	81.4	81.4	85.2	98.1	170°	717.1	712.0	711.0	709.9	707.4
75.3	92.1	82.1	79.1	79.1	84.4	95.9	172.5°	717.1	712.0	711.0	709.9	708.9
73.0	85.9	75.3	73.8	76.0	79.9	92.8	175°	715.0	709.9	711.0	712.0	711.5
68.4	71.5	69.3	69.3	72.2	76.8	91.2	177.5°	718.1	714.0	715.6	717.1	716.1
63.1	64.7	64.7	65.4	68.4	72.2	92.8	180°	716.1	716.1	716.1	716.1	716.1
58.5	58.5	60.0	60.9	63.1	68.4	89.0						
53.2	54.0	54.0	55.5	57.1	62.4	85.9						
47.2	47.2	48.7	48.7	50.9	56.3	76.8						
41.0	41.0	41.0	41.8	43.4	48.7	63.1						
34.3	34.3	34.3	35.0	35.7	40.3	47.9						
27.4	26.6	25.9	25.9	27.4	31.2	37.2						
19.0	19.0	18.2	18.2	18.2	20.6	25.1						
10.6	9.1	9.9	10.6	9.9	11.5	13.7						
9.9	10.7	10.4	10.2	10.2	10.2	12.3						
6.6	7.2	7.2	7.2	6.6	6.1	6.1						
7.7	8.2	7.7	7.2	7.2	7.2	7.2						
9.7	10.2	11.3	12.3	10.7	9.2	9.2						
25.1	26.6	28.1	29.7	25.6	21.5	16.9						
45.5	48.1	49.6	51.1	46.0	40.9	34.3						
69.0	71.6	72.6	73.7	69.0	64.4	56.8						
94.1	96.2	96.7	97.2	93.6	90.0	82.3						



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CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
123.8	123.3	122.8	119.7	116.6	110.5	0°	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9
153.4	152.4	151.4	148.8	146.3	141.7	2.5°	1405.4	1425.3	1456.4	1462.5	1487.6	1505.1
186.2	184.6	183.1	180.6	178.0	174.9	5°	1191.0	1238.2	1254.9	1287.6	1344.7	1373.5
219.9	217.9	215.8	212.8	209.7	208.2	7.5°	982.6	1018.3	1058.7	1111.1	1153.0	1202.4
255.7	253.7	251.6	250.1	248.6	245.5	10°	808.4	859.4	911.9	954.5	1013.0	1072.4
289.5	287.4	285.4	284.4	283.4	280.3	12.5°	717.9	746.0	797.8	857.8	930.9	997.1
322.2	321.2	320.2	318.6	317.1	314.6	15°	670.7	704.3	759.7	823.7	901.2	983.4
353.9	353.4	352.9	350.4	347.8	347.3	17.5°	612.2	665.4	728.5	819.9	920.2	1034.3
389.7	387.7	385.7	383.1	380.5	379.5	20°	554.4	619.1	701.9	822.1	961.3	1109.6
425.5	423.0	420.4	417.4	414.3	413.8	22.5°	503.5	580.3	685.3	835.9	1013.7	1211.5
458.3	455.7	453.2	450.1	447.0	446.0	25°	443.3	546.1	672.3	864.0	1094.5	1348.5
485.9	484.9	483.9	481.3	478.7	476.7	27.5°	395.5	513.3	653.3	888.3	1168.2	1480.0
513.5	512.5	511.5	509.9	508.4	505.3	30°	342.3	475.4	626.7	896.6	1257.9	1588.0
545.2	542.2	539.1	538.1	537.0	535.0	32.5°	299.6	439.6	596.3	889.0	1298.2	1663.3
574.9	571.8	568.8	566.2	563.6	563.1	35°	279.2	413.7	570.4	862.4	1331.7	1744.6
598.4	595.9	593.3	590.8	588.2	587.7	37.5°	265.5	385.6	545.3	818.4	1369.7	1825.3
613.8	612.2	610.7	608.7	606.6	606.6	40°	248.0	363.6	524.8	786.3	1399.4	1892.3
628.1	626.6	625.0	624.5	624.0	624.0	42.5°	232.0	343.7	508.8	758.2	1407.0	1952.3
645.5	642.9	640.4	641.4	642.4	643.4	45°	218.3	331.6	496.6	759.7	1412.3	2036.0
662.9	660.8	658.8	659.3	659.8	660.3	47.5°	207.7	320.2	492.0	785.6	1468.5	2152.3
679.2	676.2	673.1	671.6	670.0	670.0	50°	197.7	310.3	484.5	835.9	1559.1	2309.7
686.4	684.4	682.3	680.3	678.2	677.2	52.5°	186.3	296.7	474.5	887.5	1658.0	2520.4
692.5	690.0	687.4	687.9	688.4	688.4	55°	171.1	278.3	463.9	930.9	1792.6	2776.7
699.7	696.6	693.6	697.1	700.7	702.3	57.5°	147.5	257.1	457.1	953.0	1875.5	2924.2
704.8	703.3	701.7	704.3	706.9	707.9	59°	135.3	236.5	453.3	942.3	1897.6	2949.4
707.9	706.3	704.8	705.3	705.8	705.8	60°	128.5	224.3	447.2	929.4	1903.6	2933.4
711.0	708.4	705.8	705.8	705.8	706.3	62.5°	119.4	195.5	422.1	864.7	1818.4	2740.2
715.0	712.5	709.9	710.4	711.0	712.0	65°	121.7	184.8	365.1	736.2	1623.0	2363.0
716.1	716.1	716.1	716.1	716.1	716.1	67.5°	124.7	180.2	315.6	594.7	1293.6	1955.4
						70°	122.4	178.0	286.7	473.0	968.9	1464.0
						72.5°	119.4	168.1	248.7	380.2	614.5	1025.2
						75°	105.7	141.5	195.5	260.9	387.9	746.9
						77.5°	82.9	108.7	138.4	162.0	197.0	527.0
						80°	60.9	79.1	90.5	97.4	109.6	359.8
						82.5°	43.4	53.2	57.8	61.6	73.0	269.2
						85°	32.7	37.2	40.3	40.3	49.4	190.2
						87.5°	18.2	19.0	19.0	20.6	24.3	51.8
						90°	13.5	13.5	12.8	13.0	10.9	9.2
						92.5°	6.1	6.1	6.1	5.6	5.1	4.6
						95°	7.2	7.2	7.2	6.6	6.1	5.6
						97.5°	9.2	8.7	8.2	8.2	8.2	7.7
						100°	12.3	11.3	10.2	9.7	9.2	8.7
						102.5°	27.6	23.0	18.4	15.9	13.3	12.3
						105°	49.1	43.0	36.8	32.2	27.6	25.1
						107.5°	74.7	67.0	59.3	54.7	50.1	46.5



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CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
1492.9	1492.9	1492.9	110°	104.3	96.7	89.0	82.3	75.7	72.6	69.6
1524.9	1536.3	1545.4	112.5°	137.1	130.4	123.8	116.1	108.4	104.9	101.3
1417.6	1445.7	1451.1	115°	171.9	167.3	162.6	156.5	150.4	146.3	142.2
1257.2	1302.8	1318.8	117.5°	206.6	204.1	201.5	197.4	193.3	190.8	188.2
1139.3	1188.7	1205.4	120°	242.4	240.4	238.3	234.8	231.2	229.7	228.1
1074.6	1132.4	1150.7	122.5°	277.2	275.2	273.1	270.1	267.0	266.5	266.0
1076.1	1145.4	1172.0	125°	312.0	308.9	305.9	304.3	302.8	301.8	300.7
1146.1	1225.2	1257.9	127.5°	346.8	343.7	340.6	338.6	336.6	336.6	336.6
1266.3	1381.1	1405.4	130°	378.5	376.4	374.4	372.4	370.3	369.8	369.3
1429.1	1541.6	1578.1	132.5°	413.3	411.7	410.2	406.1	402.0	402.5	403.0
1581.9	1730.9	1759.1	135°	445.0	443.4	441.9	438.8	435.8	435.8	435.8
1732.5	1880.1	1905.1	137.5°	474.6	472.6	470.6	470.0	469.5	468.5	467.5
1848.9	2003.2	2024.5	140°	502.3	501.2	500.2	499.2	498.2	497.2	496.1
1960.7	2134.8	2158.4	142.5°	533.0	531.4	529.9	529.4	528.9	527.8	526.8
2085.4	2277.8	2305.2	145°	562.6	561.1	559.6	558.0	556.5	557.5	558.5
2197.9	2418.5	2436.0	147.5°	587.2	587.2	587.2	585.6	584.1	584.6	585.1
2322.7	2533.3	2537.9	150°	606.6	606.6	606.6	606.6	606.6	606.1	605.6
2424.6	2618.5	2620.1	152.5°	624.0	623.5	623.0	622.5	622.0	622.0	622.0
2523.4	2698.3	2699.2	155°	644.5	642.9	641.4	640.4	639.3	639.3	639.3
2626.8	2785.8	2774.4	157.5°	660.8	659.8	658.8	658.3	657.8	657.8	657.8
2790.4	2889.2	2900.7	160°	670.0	670.5	671.1	672.6	674.1	674.6	675.1
3039.1	3127.3	3140.3	162.5°	676.2	678.2	680.3	682.3	684.4	684.4	684.4
3328.1	3450.5	3433.0	165°	688.4	690.0	691.5	691.5	691.5	692.5	693.6
3450.5	3590.5	3604.9	167.5°	703.8	702.8	701.7	700.7	699.7	701.2	702.8
3430.0	3620.9	3645.2	170°	708.9	708.4	707.9	707.9	707.9	709.4	711.0
3397.3	3611.7	3641.4	172.5°	705.8	707.4	708.9	709.9	711.0	712.0	713.0
3211.8	3516.7	3563.1	175°	706.9	708.9	711.0	712.0	713.0	713.5	714.0
2899.9	3319.7	3385.1	177.5°	713.0	714.0	715.0	715.6	716.1	718.6	721.2
2499.1	3025.4	3077.9	180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1
1950.1	2458.8	2503.7								
1296.0	1688.4	1765.9								
823.7	1089.0	1074.6								
607.6	708.1	708.8								
441.1	486.0	480.7								
341.5	296.7	295.8								
119.4	105.0	102.7								
51.8	43.4	44.1								
7.4	7.4	8.2								
4.1	4.1	4.1								
5.1	5.1	5.1								
7.2	7.2	7.2								
8.2	8.2	8.2								
11.3	11.3	11.3								
22.5	21.7	21.5								
43.0	42.1	41.9								



359°	360°
67.9	67.5
101.3	101.3
143.0	143.2
188.2	188.2
229.8	230.2
268.4	269.0
304.0	304.8
337.4	337.6
370.9	371.3
404.7	405.1
438.2	438.8
469.9	470.6
498.6	499.2
529.3	529.9
561.8	562.6
587.6	588.2
608.0	608.7
624.4	625.0
642.6	643.4
660.2	660.8
677.6	678.2
687.6	688.4
696.0	696.6
705.2	705.8
713.4	714.0
714.6	715.0
715.7	716.1
722.8	723.2
716.1	716.1

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