

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: P227214

Luminaire Tested: **IST-AF-600-LED-E1-SLL-7030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227214  
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-600-LED-E1-SLL-7030-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) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4860.2 lumens  
Efficiency: N/A  
Efficacy: 96.4 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): 50.4  
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

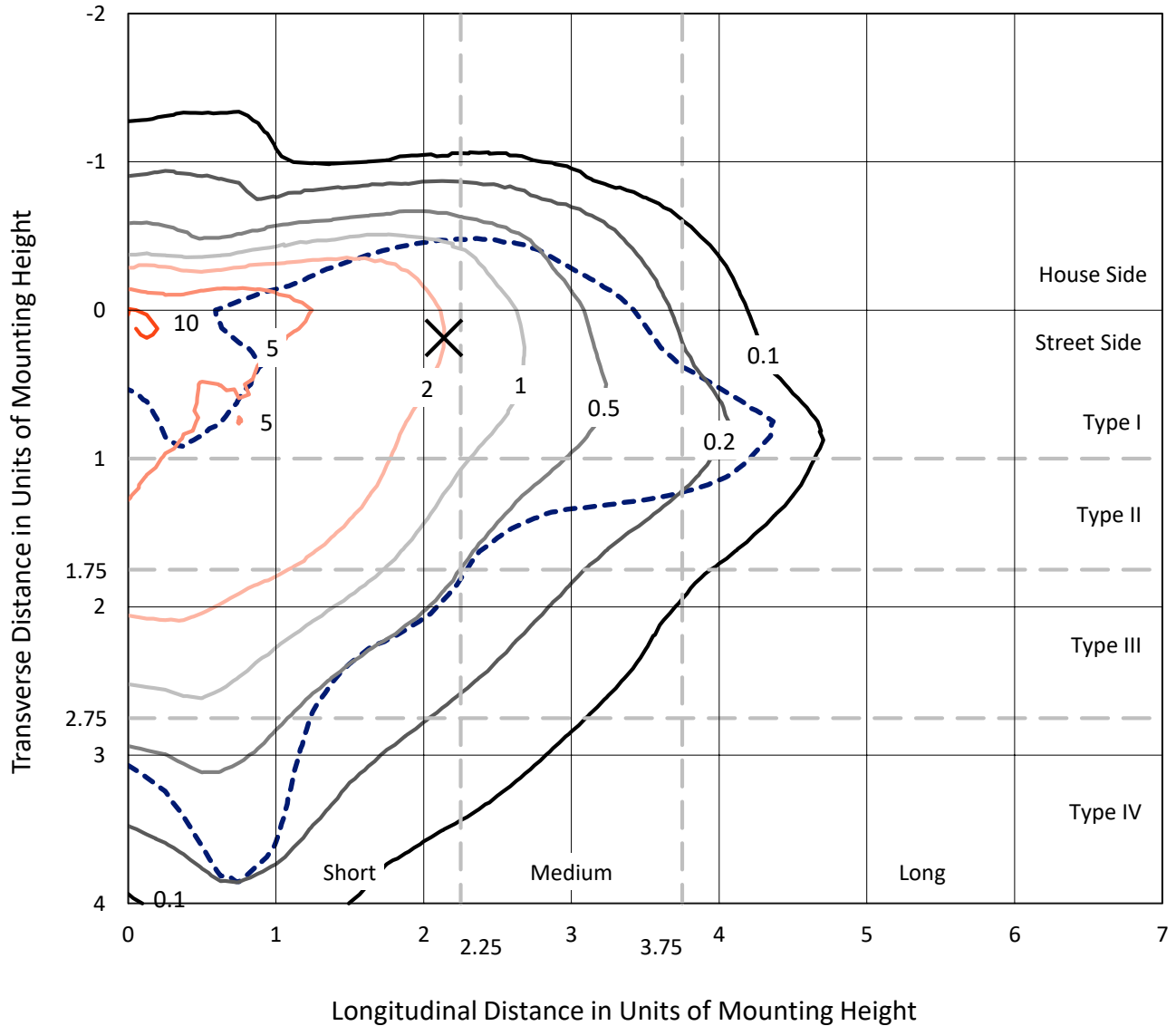


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

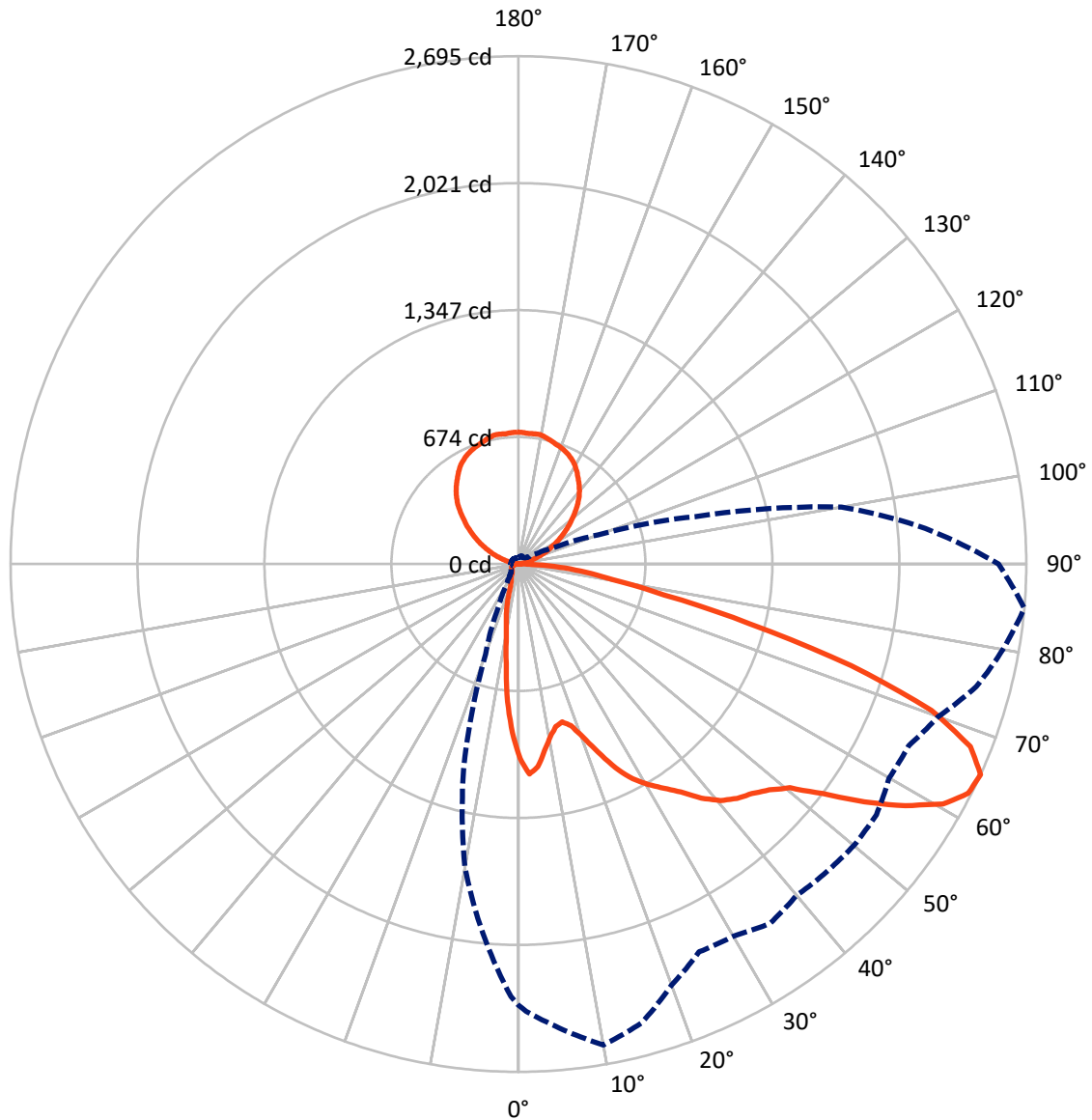


Based on 10 foot mounting height. Maximum calculated value = 11.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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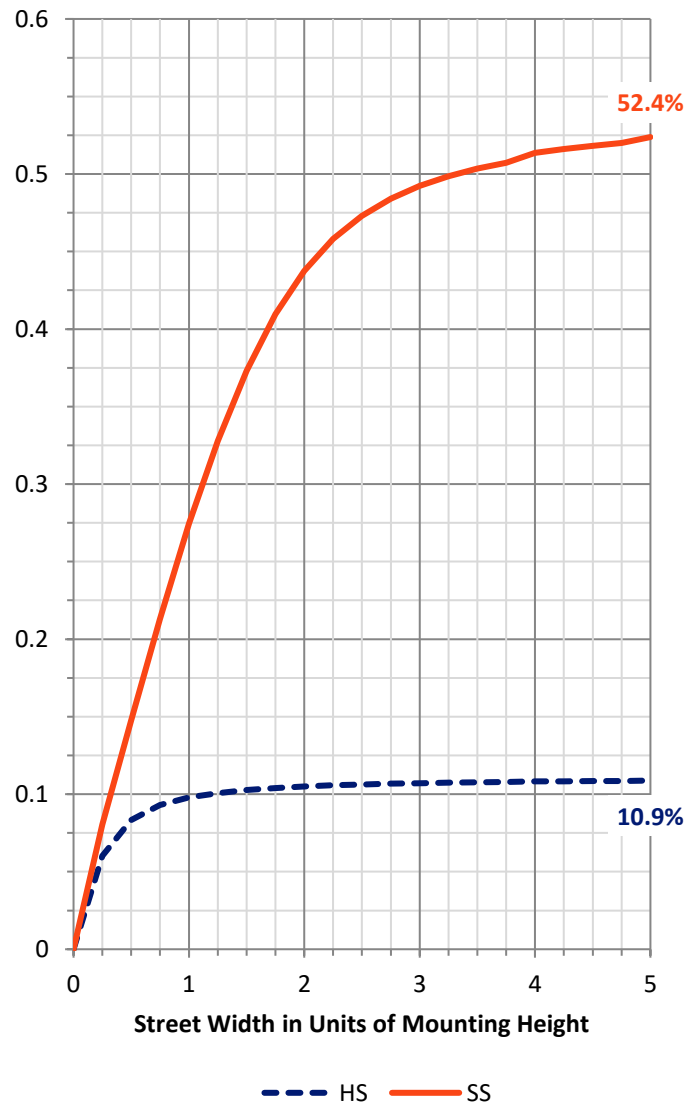
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	536.4	867.6	1404.0
	% Fixture	11.0	17.9	28.9
<b>Street Side</b>	Lumens	2588.5	867.7	3456.2
	% Fixture	53.3	17.9	71.1
<b>Total</b>	Lumens	3124.9	1735.3	4860.2
	% Fixture	64.3	35.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.5	1.6
10°-20°	147.1	3.0
20°-30°	209.8	4.3
30°-40°	304.3	6.3
40°-50°	435.4	9.0
50°-60°	668.5	13.8
60°-70°	773.7	15.9
70°-80°	394.7	8.1
80°-90°	114.9	2.4
90°-100°	9.4	0.2
100°-110°	57.4	1.2
110°-120°	166.1	3.4
120°-130°	273.2	5.6
130°-140°	336.8	6.9
140°-150°	344.6	7.1
150°-160°	290.3	6.0
160°-170°	191.2	3.9
170°-180°	66.3	1.4
0°-90°	3124.9	64.3
0°-180°	4860.2	100.0



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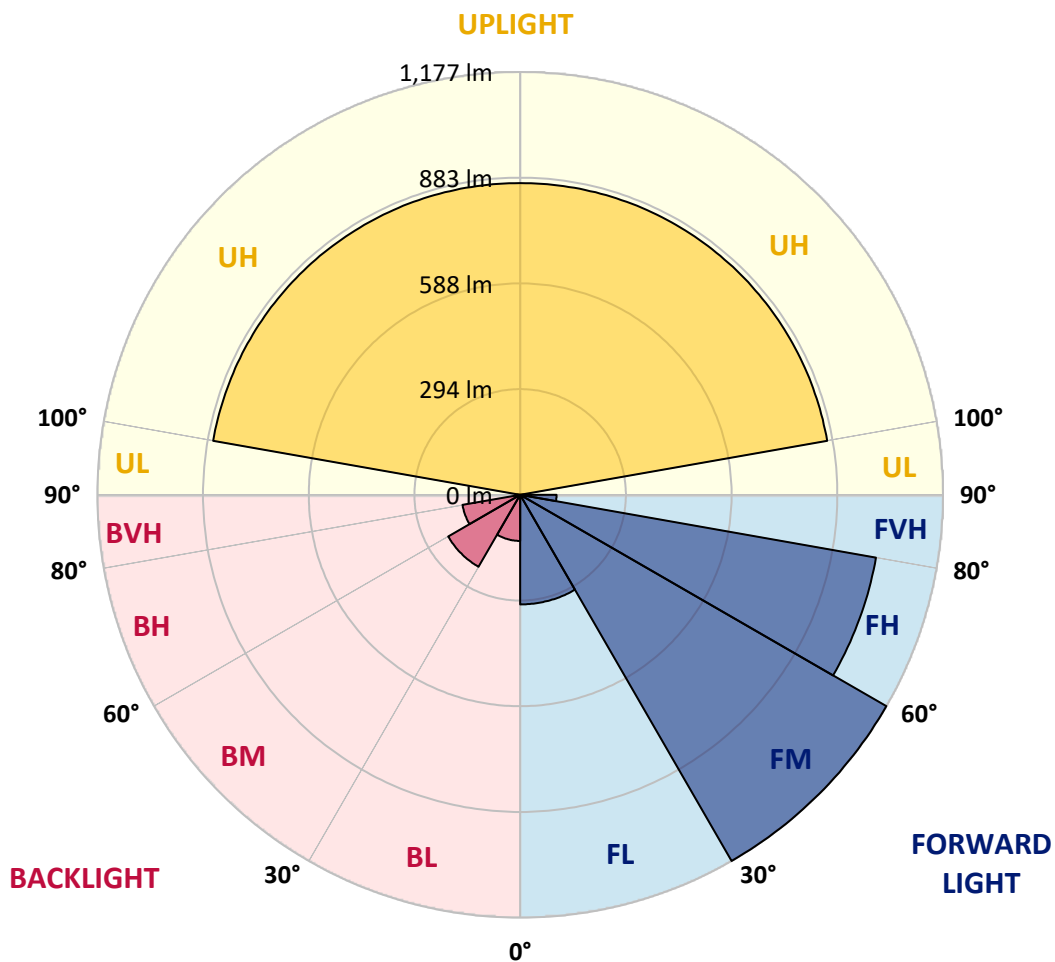
CATALOG NUMBER: IST-AF-600-LED-E1-SLL-7030-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	305.1	6.3			
FM	(30°-60°)	1176.8	24.2			
FH	(60°-80°)	1005.5	20.7			G1/1800
FVH	(80°-90°)	101.2	2.1			G2/225
BL	(0°-30°)	128.3	2.6	B1/500		
BM	(30°-60°)	231.4	4.8	B1/1000		
BH	(60°-80°)	163.0	3.4	B1/500		G1/500
BVH	(80°-90°)	13.7	0.3			G1/100
UL	(90°-100°)	9.4	0.2		U1/10	
UH	(100°-180°)	867.6	17.9		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°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0
2.5°	1068.3	1069.4	1084.1	1098.3	1116.2	1113.5	1128.3	1139.3	1149.3	1150.9	1158.2
5°	1003.1	1013.6	1046.8	1075.2	1110.9	1138.8	1168.7	1192.4	1209.8	1226.0	1228.2
7.5°	911.7	919.5	957.9	1002.6	1054.1	1090.9	1136.1	1175.6	1203.4	1229.7	1235.5
10°	833.3	840.7	883.3	941.1	986.3	1034.2	1080.9	1113.0	1149.3	1171.9	1182.9
12.5°	795.5	804.4	844.9	897.5	943.7	990.0	1025.2	1053.1	1073.6	1077.8	1080.9
15°	810.2	814.9	859.6	906.4	943.2	966.3	975.8	992.6	991.0	999.5	1001.0
17.5°	869.6	867.5	914.8	947.4	965.3	962.6	947.9	939.0	923.2	918.5	932.2
20°	971.6	978.9	1009.4	1029.4	1011.0	968.4	927.9	900.1	878.0	870.6	869.1
22.5°	1090.9	1100.4	1133.5	1123.0	1076.2	998.4	924.8	880.1	852.8	844.9	841.7
25°	1216.1	1222.4	1239.2	1203.4	1137.7	1036.8	946.9	884.3	848.0	836.5	834.9
27.5°	1317.0	1323.3	1315.4	1274.4	1179.3	1079.9	977.4	903.2	855.9	844.4	839.1
30°	1399.5	1402.7	1376.4	1325.4	1230.8	1127.7	1017.3	936.4	881.2	854.9	851.2
32.5°	1492.1	1490.0	1439.0	1368.5	1274.4	1170.8	1063.1	973.7	905.3	873.3	867.5
35°	1593.5	1575.1	1485.2	1411.1	1304.4	1204.0	1104.6	1013.1	944.2	901.7	894.3
37.5°	1684.0	1665.1	1544.7	1444.8	1334.4	1229.7	1137.2	1064.1	1003.7	964.8	961.6
40°	1754.4	1731.3	1589.9	1467.4	1349.1	1248.7	1175.6	1128.3	1088.3	1056.8	1056.8
42.5°	1811.2	1786.0	1634.0	1493.7	1362.2	1277.6	1239.7	1223.4	1215.0	1197.7	1204.0
45°	1865.9	1840.1	1670.3	1510.5	1391.7	1333.8	1339.1	1353.3	1378.5	1368.5	1377.5
47.5°	1917.9	1892.7	1711.3	1537.3	1448.4	1434.8	1462.1	1518.9	1568.3	1607.2	1634.6
50°	2005.2	1975.2	1784.9	1616.2	1537.8	1544.7	1623.5	1735.0	1815.4	1851.2	1849.1
52.5°	2170.8	2128.2	1943.2	1763.4	1665.6	1703.4	1796.5	1936.9	2042.0	2069.9	2080.9
55°	2373.2	2339.6	2171.9	1958.4	1887.4	1900.6	2016.3	2175.0	2256.0	2284.9	2294.4
57.5°	2492.1	2483.1	2378.0	2167.1	2098.3	2093.0	2243.9	2373.8	2443.7	2471.0	2462.6
59°	2519.9	2522.5	2462.6	2314.9	2220.2	2208.7	2362.2	2482.6	2541.0	2549.4	2545.2
60°	2517.3	2532.0	2524.7	2395.8	2297.5	2282.8	2412.1	2526.8	2575.7	2588.8	2574.1
62.5°	2463.1	2488.4	2558.3	2544.6	2472.6	2397.4	2458.4	2541.5	2573.0	2560.4	2549.4
65°	2340.1	2373.2	2470.5	2591.4	2522.0	2376.9	2270.2	2279.7	2327.5	2296.0	2311.2
67.5°	2127.7	2165.6	2217.1	2491.5	2390.6	2147.2	1963.7	1873.8	1851.2	1881.7	1930.0
70°	1730.8	1755.5	1885.9	2273.9	2099.3	1764.9	1534.7	1414.8	1374.8	1445.3	1494.7
72.5°	1220.8	1257.6	1429.5	1881.7	1727.1	1413.7	1161.4	1051.0	1011.0	1014.2	1057.3
75°	742.9	792.8	998.9	1487.9	1361.2	1083.0	884.8	805.4	793.4	786.5	779.2
77.5°	490.0	508.9	656.7	1026.8	918.0	770.2	664.0	696.6	732.9	740.8	750.2
80°	332.3	338.1	425.9	720.3	604.6	568.9	536.8	613.6	682.4	695.0	688.2
82.5°	204.5	221.9	297.0	485.8	482.1	465.3	424.3	484.2	530.0	537.8	552.0
85°	71.0	74.1	182.4	429.0	490.0	495.3	349.6	276.0	310.2	304.4	218.7
87.5°	30.5	34.2	56.8	287.1	331.7	274.4	159.8	142.0	109.4	61.5	59.4
90°	7.1	7.1	6.6	8.6	14.9	12.8	12.7	9.6	8.0	7.5	7.0
92.5°	4.0	4.0	4.0	4.5	5.0	5.5	6.0	6.0	6.0	6.0	6.0
95°	5.0	5.0	5.0	5.5	6.0	6.5	7.0	7.0	7.0	7.0	7.0
97.5°	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.5	9.0	9.0	9.0
100°	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0	12.0	16.5	21.0
102.5°	11.0	11.0	11.0	12.0	13.0	15.5	18.0	22.5	27.0	33.5	40.0
105°	21.0	21.2	22.0	24.5	27.0	31.5	36.0	42.0	48.0	55.5	63.0
107.5°	41.0	41.2	42.0	45.5	49.0	53.5	58.0	65.5	73.0	80.5	88.0



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CATALOG NUMBER: IST-AF-600-LED-E1-SLL-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	66.0	66.4	68.0	71.0	74.0	80.5	87.0	94.5	102.0	108.0	114.0
112.5°	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	134.0	138.5	143.0
115°	140.0	139.8	139.0	143.0	147.0	153.0	159.0	163.5	168.0	171.0	174.0
117.5°	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	202.0	203.5	205.0
120°	225.0	224.6	223.0	224.5	226.0	229.5	233.0	235.0	237.0	240.0	243.0
122.5°	263.0	262.4	260.0	260.5	261.0	264.0	267.0	269.0	271.0	274.0	277.0
125°	298.0	297.2	294.0	295.0	296.0	297.5	299.0	302.0	305.0	307.5	310.0
127.5°	330.0	329.8	329.0	329.0	329.0	331.0	333.0	336.0	339.0	339.5	340.0
130°	363.0	362.6	361.0	361.5	362.0	364.0	366.0	368.0	370.0	371.0	372.0
132.5°	396.0	395.6	394.0	393.5	393.0	397.0	401.0	402.5	404.0	404.5	405.0
135°	429.0	428.4	426.0	426.0	426.0	429.0	432.0	433.5	435.0	436.0	437.0
137.5°	460.0	459.4	457.0	458.0	459.0	459.5	460.0	462.0	464.0	466.0	468.0
140°	488.0	487.4	485.0	486.0	487.0	488.0	489.0	490.0	491.0	494.0	497.0
142.5°	518.0	517.4	515.0	516.0	517.0	517.5	518.0	519.5	521.0	523.0	525.0
145°	550.0	549.2	546.0	545.0	544.0	545.5	547.0	548.5	550.0	550.5	551.0
147.5°	575.0	574.4	572.0	571.5	571.0	572.5	574.0	574.0	574.0	574.5	575.0
150°	595.0	594.4	592.0	592.5	593.0	593.0	593.0	593.0	593.0	593.0	593.0
152.5°	611.0	610.4	608.0	608.0	608.0	608.5	609.0	609.5	610.0	610.0	610.0
155°	629.0	628.2	625.0	625.0	625.0	626.0	627.0	628.5	630.0	629.0	628.0
157.5°	646.0	645.4	643.0	643.0	643.0	643.5	644.0	645.0	646.0	645.5	645.0
160°	663.0	662.4	660.0	659.5	659.0	657.5	656.0	655.5	655.0	655.0	655.0
162.5°	673.0	672.2	669.0	669.0	669.0	667.0	665.0	663.0	661.0	662.0	663.0
165°	681.0	680.4	678.0	677.0	676.0	676.0	676.0	674.5	673.0	673.0	673.0
167.5°	690.0	689.4	687.0	685.5	684.0	685.0	686.0	687.0	688.0	686.5	685.0
170°	698.0	697.4	695.0	693.5	692.0	692.0	692.0	692.5	693.0	692.0	691.0
172.5°	699.0	698.6	697.0	696.0	695.0	694.0	693.0	691.5	690.0	690.0	690.0
175°	700.0	699.6	698.0	697.5	697.0	696.0	695.0	693.0	691.0	690.5	690.0
177.5°	707.0	706.6	705.0	702.5	700.0	699.5	699.0	698.0	697.0	696.0	695.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0
2.5°	1156.7	1149.8	1154.0	1148.2	1138.8	1132.5	1125.1	1115.6	1104.6	1089.9	1075.2
5°	1223.4	1218.2	1205.0	1186.1	1159.8	1137.7	1111.4	1080.4	1054.7	1021.5	990.5
7.5°	1229.2	1220.8	1196.6	1161.4	1120.9	1079.9	1048.9	998.4	965.8	913.2	878.0
10°	1176.6	1177.2	1153.0	1119.8	1077.8	1029.4	984.7	929.5	881.7	828.1	769.2
12.5°	1099.3	1106.7	1107.8	1078.3	1037.3	986.3	936.4	883.8	824.4	767.1	712.9
15°	1011.5	1032.6	1034.2	1026.8	1005.2	962.1	916.4	869.1	808.6	746.0	685.1
17.5°	933.2	953.2	971.6	988.4	989.5	969.0	941.1	900.6	840.1	766.5	695.0
20°	873.8	895.4	926.9	957.9	992.1	1002.6	1004.7	978.9	914.3	824.4	727.6
22.5°	849.1	874.3	906.4	964.8	1025.2	1062.5	1083.6	1083.6	1015.7	910.6	781.3
25°	843.8	864.3	913.2	985.8	1066.7	1131.9	1171.9	1198.7	1149.8	1021.5	847.5
27.5°	847.5	875.4	935.8	1010.0	1094.6	1178.2	1243.9	1290.7	1245.0	1097.2	909.0
30°	862.2	903.8	966.3	1043.1	1130.4	1218.7	1298.1	1357.5	1323.8	1166.1	967.4
32.5°	888.0	938.5	1009.4	1078.8	1165.6	1261.3	1339.6	1417.9	1393.2	1214.0	998.4
35°	926.4	985.8	1050.4	1120.4	1203.4	1299.1	1382.7	1485.2	1476.3	1273.9	1029.4
37.5°	988.4	1049.4	1108.8	1168.7	1247.6	1340.7	1444.8	1575.7	1568.3	1362.7	1079.4
40°	1097.8	1133.5	1177.7	1216.1	1290.2	1379.0	1490.5	1650.3	1676.6	1439.0	1123.5
42.5°	1233.4	1254.4	1267.1	1277.6	1315.4	1399.0	1523.6	1700.3	1743.4	1495.8	1157.7
45°	1406.4	1400.1	1374.8	1350.7	1346.4	1410.6	1538.9	1737.1	1796.0	1551.0	1192.4
47.5°	1610.9	1597.2	1528.4	1449.0	1404.8	1431.6	1565.7	1791.2	1860.6	1623.5	1235.5
50°	1847.0	1814.9	1702.4	1568.3	1486.8	1491.0	1633.5	1866.4	1945.8	1718.2	1316.0
52.5°	2065.7	2008.4	1874.3	1697.1	1580.4	1594.6	1755.5	2022.0	2120.4	1874.8	1451.1
55°	2258.6	2185.0	2040.4	1846.4	1740.8	1765.5	1950.5	2228.1	2321.2	2061.5	1587.8
57.5°	2422.7	2344.3	2201.8	2031.0	1899.5	1920.0	2124.6	2419.5	2482.1	2229.2	1718.7
59°	2497.3	2420.0	2288.6	2130.9	2007.8	2051.0	2247.6	2514.7	2541.5	2293.8	1768.6
60°	2533.6	2456.3	2340.6	2186.6	2074.1	2130.9	2312.8	2586.7	2563.6	2303.3	1787.6
62.5°	2531.0	2476.8	2400.6	2295.4	2274.9	2369.6	2524.7	2679.2	2578.8	2276.0	1799.6
65°	2323.3	2318.6	2271.2	2283.3	2369.0	2515.2	2610.4	2694.5	2547.3	2167.1	1741.3
67.5°	1937.9	1957.4	1963.7	2037.8	2238.1	2486.3	2569.9	2586.2	2410.0	1934.2	1559.9
70°	1496.3	1453.2	1524.1	1655.1	1943.7	2263.4	2382.2	2325.4	2129.3	1619.8	1273.9
72.5°	1059.4	1072.0	1174.0	1343.8	1637.7	1968.9	2155.1	1845.4	1602.0	1212.4	903.2
75°	797.0	856.4	905.9	1054.7	1330.1	1686.6	1840.1	1268.6	1043.6	835.9	590.9
77.5°	763.9	759.2	721.3	752.9	959.0	1181.4	1312.8	791.8	653.5	546.8	357.0
80°	706.1	665.6	596.7	566.2	604.1	758.7	833.3	508.9	434.8	382.2	201.4
82.5°	547.8	520.5	447.9	445.8	503.7	538.9	573.1	360.7	327.0	309.7	123.6
85°	347.5	357.0	365.9	446.4	558.9	565.2	445.8	219.8	172.4	242.9	78.9
87.5°	103.0	167.7	203.5	345.4	503.7	505.2	335.4	72.0	64.7	75.7	45.7
90°	7.0	7.0	8.0	9.0	9.0	9.0	8.5	7.0	7.0	7.0	8.0
92.5°	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0	8.0	8.0	8.5
100°	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0	19.0	19.0	21.0
102.5°	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0	38.0	39.0	40.5
105°	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0	61.0	61.0	63.0
107.5°	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0	86.0	87.0	88.5



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CATALOG NUMBER: IST-AF-600-LED-E1-SLL-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	117.0	116.0	117.5
112.5°	145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	147.0	147.0	148.0
115°	176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	178.0	177.0	178.0
117.5°	208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	209.0	208.0	209.0
120°	244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	243.0	243.0	244.0
122.5°	278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	277.0	276.0	277.0
125°	311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	310.0	310.0	310.0
127.5°	342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	347.0	345.0	345.5
130°	374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	380.0	379.0	380.0
132.5°	408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	415.0	414.0	414.0
135°	440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	451.0	450.0	448.5
137.5°	470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	482.0	481.0	478.5
140°	498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	511.0	509.0	506.5
142.5°	526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	536.0	534.0	533.5
145°	553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	560.0	558.0	559.5
147.5°	577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	585.0	583.0	584.5
150°	595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	610.0	606.0	604.5
152.5°	610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	628.0	623.0	620.5
155°	627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	641.0	638.0	637.0
157.5°	644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	655.0	650.0	650.0
160°	656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	666.0	660.0	660.5
162.5°	665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	674.0	668.0	669.0
165°	672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	682.0	678.0	679.0
167.5°	681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	694.0	688.0	688.0
170°	688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	701.0	696.0	695.0
172.5°	689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	701.0	696.0	695.0
175°	690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	699.0	694.0	695.0
177.5°	694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	702.0	698.0	699.5
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



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CATALOG NUMBER: IST-AF-600-LED-E1-SLL-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0
2.5°	1059.9	1057.8	1043.1	1018.4	1020.5	1008.9	994.2	970.5	965.8	952.7	950.6
5°	964.2	939.5	907.4	868.5	853.8	833.8	813.3	798.6	780.2	763.4	786.0
7.5°	836.5	800.2	762.9	721.9	698.2	665.6	648.3	614.6	589.9	585.2	565.7
10°	729.7	684.0	641.4	604.6	560.4	530.0	507.9	489.5	472.6	452.1	439.5
12.5°	658.8	607.2	562.0	516.3	495.3	470.0	456.4	439.0	414.8	397.5	380.6
15°	626.7	571.0	521.5	481.6	451.1	427.4	403.3	382.2	355.9	336.5	317.0
17.5°	622.5	549.9	487.4	442.7	409.6	383.8	351.7	323.9	291.8	270.2	253.9
20°	627.2	534.2	455.8	397.5	363.8	318.6	288.6	254.5	222.9	194.5	168.8
22.5°	646.1	525.8	424.8	360.7	310.7	259.2	227.1	183.5	156.7	129.3	119.3
25°	671.9	520.5	398.0	320.2	257.1	206.1	162.5	126.2	114.1	107.3	103.6
27.5°	699.2	511.0	368.0	282.9	214.0	151.9	121.4	106.2	101.5	97.8	95.2
30°	719.8	492.6	331.2	242.9	170.3	129.9	108.3	98.3	95.2	91.0	88.3
32.5°	728.7	464.2	298.1	205.0	143.5	111.5	94.6	88.9	85.7	82.0	80.4
35°	727.1	432.2	281.3	190.3	131.4	98.8	83.1	79.4	75.2	71.5	67.8
37.5°	728.7	402.7	268.1	186.6	126.2	89.4	75.7	73.1	69.9	66.2	63.1
40°	735.0	386.4	261.8	178.8	122.0	85.7	69.9	67.3	66.8	62.6	59.9
42.5°	737.6	388.0	258.7	167.7	111.5	84.6	69.9	64.1	64.1	61.0	57.8
45°	734.5	399.6	260.8	161.4	103.6	79.4	73.6	64.1	62.6	59.9	56.8
47.5°	743.9	408.0	260.8	160.4	98.3	74.1	69.9	70.5	63.6	60.5	55.7
50°	782.8	415.9	255.5	158.8	96.7	68.9	66.2	69.4	71.5	61.5	56.3
52.5°	851.7	425.9	249.7	156.1	94.6	64.7	61.5	65.2	73.1	64.7	56.3
55°	922.2	443.7	246.1	151.9	91.5	62.0	55.7	62.6	66.8	64.1	55.7
57.5°	997.3	463.2	242.4	142.0	84.1	59.4	53.6	54.7	59.9	62.0	54.2
59°	1020.0	472.6	239.2	134.6	77.8	57.3	52.0	50.5	53.6	59.4	53.1
60°	1036.3	473.2	235.5	128.3	74.1	56.3	51.0	48.9	49.9	61.0	53.6
62.5°	1037.8	472.6	224.0	115.1	66.8	54.2	49.4	46.8	45.7	51.0	54.7
65°	972.6	450.6	202.9	108.3	67.3	52.0	46.8	44.7	42.6	43.6	47.3
67.5°	850.7	393.8	180.9	109.9	71.0	50.5	44.7	42.6	41.0	40.0	41.5
70°	643.5	327.0	174.5	113.6	74.1	49.4	41.5	39.4	38.4	37.9	37.9
72.5°	445.8	269.2	167.7	116.2	76.8	48.9	38.4	36.3	35.8	35.2	35.2
75°	287.1	195.6	138.8	98.8	69.9	44.7	34.7	32.6	32.1	31.5	32.1
77.5°	169.8	136.7	102.0	69.4	51.0	35.8	30.0	28.4	28.4	28.4	28.9
80°	94.1	81.0	67.8	44.7	36.3	26.8	24.7	23.1	23.1	23.7	24.7
82.5°	56.3	44.7	38.4	28.4	24.7	18.9	18.4	17.3	17.9	18.4	19.5
85°	36.8	28.4	23.1	18.9	16.8	12.1	10.5	11.0	11.6	12.6	13.1
87.5°	20.5	15.8	12.6	11.0	10.0	5.3	4.2	4.2	5.3	6.3	7.4
90°	9.0	9.0	9.0	8.0	7.0	7.0	7.0	7.5	8.0	8.0	8.0
92.5°	6.0	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	9.0	9.5	10.0	11.0	12.0	10.5	9.0	9.0	9.0	8.5	8.0
100°	23.0	24.5	26.0	27.5	29.0	25.0	21.0	16.5	12.0	11.0	10.0
102.5°	42.0	44.5	47.0	48.5	50.0	45.0	40.0	33.5	27.0	22.5	18.0
105°	65.0	67.5	70.0	71.0	72.0	67.5	63.0	55.5	48.0	42.0	36.0
107.5°	90.0	92.0	94.0	94.5	95.0	91.5	88.0	80.5	73.0	65.5	58.0



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	119.0	120.0	121.0	120.5	120.0	117.0	114.0	108.0	102.0	94.5	87.0	0°
112.5°	149.0	149.5	150.0	149.0	148.0	145.5	143.0	138.5	134.0	127.5	121.0	2.5°
115°	179.0	180.5	182.0	180.5	179.0	176.5	174.0	171.0	168.0	163.5	159.0	5°
117.5°	210.0	212.5	215.0	213.0	211.0	208.0	205.0	203.5	202.0	199.5	197.0	7.5°
120°	245.0	247.5	250.0	248.0	246.0	244.5	243.0	240.0	237.0	235.0	233.0	10°
122.5°	278.0	280.5	283.0	281.0	279.0	278.0	277.0	274.0	271.0	269.0	267.0	12.5°
125°	310.0	312.5	315.0	314.0	313.0	311.5	310.0	307.5	305.0	302.0	299.0	15°
127.5°	346.0	346.0	346.0	345.5	345.0	342.5	340.0	339.5	339.0	336.0	333.0	17.5°
130°	381.0	381.0	381.0	379.0	377.0	374.5	372.0	371.0	370.0	368.0	366.0	20°
132.5°	414.0	415.0	416.0	413.5	411.0	408.0	405.0	404.5	404.0	402.5	401.0	22.5°
135°	447.0	447.5	448.0	445.5	443.0	440.0	437.0	436.0	435.0	433.5	432.0	25°
137.5°	476.0	475.5	475.0	474.0	473.0	470.5	468.0	466.0	464.0	462.0	460.0	27.5°
140°	504.0	503.0	502.0	501.0	500.0	498.5	497.0	494.0	491.0	490.0	489.0	30°
142.5°	533.0	533.0	533.0	530.0	527.0	526.0	525.0	523.0	521.0	519.5	518.0	32.5°
145°	561.0	561.5	562.0	559.0	556.0	553.5	551.0	550.5	550.0	548.5	547.0	35°
147.5°	586.0	585.5	585.0	582.5	580.0	577.5	575.0	574.5	574.0	574.0	574.0	37.5°
150°	603.0	601.5	600.0	598.5	597.0	595.0	593.0	593.0	593.0	593.0	593.0	40°
152.5°	618.0	616.0	614.0	612.5	611.0	610.5	610.0	610.0	610.0	609.5	609.0	42.5°
155°	636.0	633.5	631.0	628.5	626.0	627.0	628.0	629.0	630.0	628.5	627.0	45°
157.5°	650.0	649.0	648.0	646.0	644.0	644.5	645.0	645.5	646.0	645.0	644.0	47.5°
160°	661.0	662.5	664.0	661.0	658.0	656.5	655.0	655.0	655.0	655.5	656.0	50°
162.5°	670.0	670.5	671.0	669.0	667.0	665.0	663.0	662.0	661.0	663.0	665.0	52.5°
165°	680.0	678.5	677.0	674.5	672.0	672.5	673.0	673.0	673.0	674.5	676.0	55°
167.5°	688.0	686.0	684.0	681.0	678.0	681.5	685.0	686.5	688.0	687.0	686.0	57.5°
170°	694.0	691.5	689.0	687.5	686.0	688.5	691.0	692.0	693.0	692.5	692.0	59°
172.5°	694.0	693.0	692.0	690.5	689.0	689.5	690.0	690.0	690.0	691.5	693.0	60°
175°	696.0	695.5	695.0	692.5	690.0	690.0	690.0	690.5	691.0	693.0	695.0	62.5°
177.5°	701.0	700.0	699.0	696.5	694.0	694.5	695.0	696.0	697.0	698.0	699.0	65°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	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°
1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	110°	80.5
957.9	942.7	926.4	914.3	919.5	902.2	903.8	899.0	896.9	895.9	884.8	112.5°	113.5
758.7	764.4	740.3	742.9	750.2	732.4	720.3	740.3	737.6	719.8	729.7	115°	153.0
546.8	548.4	537.3	512.6	512.6	525.8	530.5	539.9	546.3	568.3	554.7	117.5°	193.0
418.0	403.3	392.2	381.2	374.9	361.7	364.9	376.4	383.8	396.4	406.4	120°	229.5
363.3	347.0	327.5	310.7	301.8	289.7	281.8	279.2	281.8	273.9	274.4	122.5°	264.0
301.8	287.1	265.5	256.6	239.7	230.3	225.0	218.2	212.9	201.9	197.2	125°	297.5
234.0	214.5	192.4	192.4	180.3	172.4	170.3	168.8	165.6	159.8	154.0	127.5°	331.0
155.6	143.0	130.4	124.1	125.1	124.1	120.9	126.2	126.2	128.3	127.2	130°	364.0
113.6	111.5	106.7	103.0	100.9	100.4	100.9	102.5	105.7	108.3	110.9	132.5°	397.0
102.0	100.9	96.7	93.1	92.5	91.5	91.5	93.1	93.6	94.1	93.6	135°	429.0
94.6	92.5	88.9	86.2	85.2	84.6	85.2	83.6	82.5	83.1	82.5	137.5°	459.5
85.7	84.1	80.4	78.3	77.8	77.8	76.2	75.7	74.7	75.2	74.7	140°	488.0
78.9	76.8	73.1	70.5	70.5	69.9	70.5	69.9	69.4	68.9	68.9	142.5°	517.5
66.2	65.7	62.0	61.0	61.5	63.1	63.1	63.1	63.6	63.1	63.1	145°	545.5
61.5	61.0	57.3	54.7	54.2	54.2	54.2	55.2	56.8	57.3	58.4	147.5°	572.5
58.4	57.8	54.2	52.0	51.0	50.5	49.9	49.9	50.5	52.6	54.2	150°	593.0
56.3	55.2	51.5	48.9	48.4	47.8	47.3	47.3	47.3	47.8	49.4	152.5°	608.5
55.2	53.6	49.4	46.8	45.7	45.2	45.2	45.7	45.2	45.2	45.2	155°	626.0
53.6	52.6	48.4	45.2	44.2	44.2	43.6	43.6	43.6	42.6	42.6	157.5°	643.5
53.1	51.5	47.3	44.2	43.1	42.6	42.1	42.6	41.5	41.0	40.5	160°	657.5
52.0	49.9	45.2	42.6	42.1	41.0	40.5	40.5	40.5	39.4	39.4	162.5°	667.0
51.5	48.9	44.2	41.5	40.5	39.4	38.9	38.9	40.0	38.9	38.9	165°	676.0
51.0	47.3	42.6	39.4	38.9	37.9	37.3	37.9	39.4	38.4	37.9	167.5°	685.0
48.9	46.3	41.5	38.9	37.9	36.8	36.3	36.8	37.9	37.9	37.9	170°	692.0
47.8	45.2	40.5	37.9	37.3	36.3	35.8	35.8	37.3	37.3	36.8	172.5°	694.0
46.3	44.2	39.4	36.3	35.2	35.2	34.7	34.7	35.2	35.2	35.8	175°	696.0
44.2	43.1	38.4	34.7	34.2	33.6	33.6	33.6	33.6	34.7	34.7	177.5°	699.5
42.1	41.5	36.8	33.6	32.6	32.6	32.6	32.6	32.6	33.1	33.6	180°	700.0
38.9	38.9	34.7	31.5	31.0	30.5	30.5	30.5	30.5	31.0	31.5		
35.8	36.3	32.1	28.9	28.4	28.4	28.4	28.4	28.9	28.9	29.4		
32.6	33.1	28.9	25.8	25.8	25.8	25.8	25.8	25.8	25.8	26.8		
29.4	29.4	24.7	21.6	22.1	22.6	23.1	22.6	22.6	23.1	24.7		
25.2	24.7	20.5	17.9	17.9	18.9	19.5	18.9	19.5	19.5	21.6		
20.0	20.0	15.8	13.1	13.1	15.2	15.2	15.2	15.8	16.3	17.9		
15.2	14.7	11.0	8.9	8.9	10.5	11.0	11.6	12.1	12.6	13.7		
8.9	8.9	5.8	3.7	4.2	4.7	6.3	6.3	6.3	7.4	8.9		
7.5	7.5	6.0	5.0	5.0	5.0	6.0	7.0	7.5	8.0	8.0		
5.5	5.0	4.5	4.0	4.0	4.0	4.5	5.0	5.5	6.0	6.0		
6.5	6.0	5.5	5.0	5.0	5.0	5.5	6.0	6.5	7.0	7.0		
8.0	8.0	7.5	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.5		
9.5	9.0	8.5	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0		
15.5	13.0	12.0	11.0	11.0	11.0	12.0	13.0	15.5	18.0	22.5		
31.5	27.0	24.5	22.0	21.0	22.0	24.5	27.0	31.5	36.0	42.0		
53.5	49.0	45.5	42.0	41.0	42.0	45.5	49.0	53.5	58.0	65.5		

'227214  
 IST-AF-600-LED-E1-SLL-7030-ULG

REPORT NUMBER: P227214  
 CATALOG NUMBER: IST-AF-600

**TION (continued):**

**CANDELA DISTRIBUTION (con**

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
74.0	71.0	68.0	66.0	68.0	71.0	74.0	80.5	87.0	94.5	0°	1032.0	1032.0
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	894.3	893.8
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	733.9	729.2
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	568.9	586.2
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	410.1	422.2
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	285.5	291.8
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	196.6	209.2
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	153.0	154.6
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	126.2	127.2
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	112.0	114.1
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	94.1	96.2
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	83.1	85.2
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	76.2	77.3
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	69.4	69.4
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	63.6	64.1
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	59.4	60.5
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	55.7	56.3
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	50.5	51.5
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	45.7	46.3
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	42.6	42.6
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	40.5	41.0
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	39.4	40.0
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	38.9	40.0
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	38.9	39.4
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	38.4	38.9
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	38.4	39.4
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	36.8	37.9
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	35.8	36.8
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	34.2	35.8
										70°	32.6	34.2
										72.5°	30.5	32.6
										75°	28.4	30.0
										77.5°	25.8	27.3
										80°	22.6	23.1
										82.5°	18.9	18.9
										85°	14.2	12.6
										87.5°	7.9	8.4
										90°	8.0	7.5
										92.5°	6.0	6.0
										95°	7.0	7.0
										97.5°	9.0	9.0
										100°	12.0	16.5
										102.5°	27.0	33.5
										105°	48.0	55.5
										107.5°	73.0	80.5



REPORT NUMBER: P227214

CATALOG NUMBER: IST-AF-600-LED-E1-S

0-LED-E1-SLL-7030-ULG

**tinued):**

**CANDELA DISTRIBUTION (continued):**

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	110°	102.0	108.0	114.0
882.7	882.7	898.5	900.1	881.7	886.4	895.4	884.8	896.4	112.5°	134.0	138.5	143.0
740.8	734.5	735.0	730.8	738.2	729.7	738.7	735.5	732.9	115°	168.0	171.0	174.0
575.2	586.2	578.3	563.1	575.2	565.7	547.8	549.4	529.4	117.5°	202.0	203.5	205.0
432.2	424.3	420.1	412.7	393.3	396.9	377.0	380.1	387.0	120°	237.0	240.0	243.0
298.1	292.3	299.2	294.4	286.5	288.1	292.3	296.5	307.6	122.5°	271.0	274.0	277.0
209.2	206.6	205.0	208.2	217.1	221.9	228.7	241.3	247.6	125°	305.0	307.5	310.0
157.2	157.7	156.1	160.9	168.2	171.9	173.5	174.5	181.9	127.5°	339.0	339.5	340.0
129.9	132.0	131.4	133.0	130.9	128.8	130.4	127.2	124.6	130°	370.0	371.0	372.0
113.6	114.1	111.5	110.9	107.8	105.2	103.0	103.0	102.0	132.5°	404.0	404.5	405.0
96.2	96.7	94.1	94.1	93.6	95.2	94.1	92.0	91.5	135°	435.0	436.0	437.0
86.2	85.2	83.6	83.6	82.5	82.5	83.1	83.6	83.1	137.5°	464.0	466.0	468.0
77.3	76.2	75.7	76.2	75.7	76.2	76.8	76.2	76.8	140°	491.0	494.0	497.0
71.0	69.9	69.9	70.5	69.9	70.5	70.5	70.5	69.9	142.5°	521.0	523.0	525.0
65.7	64.7	64.7	64.7	64.1	63.1	62.0	60.5	58.9	145°	550.0	550.5	551.0
61.5	61.0	59.9	59.4	57.8	54.7	53.6	53.6	53.6	147.5°	574.0	574.5	575.0
57.8	56.8	56.3	54.2	52.0	51.0	51.0	51.0	51.0	150°	593.0	593.0	593.0
53.1	51.5	50.5	49.9	49.4	49.4	48.9	48.9	48.9	152.5°	610.0	610.0	610.0
47.3	46.8	46.8	47.3	47.3	47.3	47.3	46.8	47.3	155°	630.0	629.0	628.0
43.6	43.6	44.2	44.7	45.2	45.7	46.3	45.7	46.3	157.5°	646.0	645.5	645.0
42.1	42.1	42.1	43.1	43.6	44.2	45.2	45.2	45.2	160°	655.0	655.0	655.0
41.0	41.0	41.5	42.1	42.6	43.1	43.6	44.2	44.7	162.5°	661.0	662.0	663.0
40.5	41.0	40.5	41.0	41.5	42.6	43.1	43.1	43.6	165°	673.0	673.0	673.0
40.5	40.5	40.5	40.5	41.5	42.1	41.5	42.1	42.6	167.5°	688.0	686.5	685.0
40.5	40.5	40.0	40.5	41.0	41.5	41.0	41.0	42.1	170°	693.0	692.0	691.0
40.0	40.5	40.0	40.0	40.5	41.0	40.5	41.0	41.5	172.5°	690.0	690.0	690.0
38.9	39.4	38.9	39.4	39.4	40.0	40.0	40.0	40.5	175°	691.0	690.5	690.0
37.9	37.9	37.9	38.4	38.4	38.9	38.9	39.4	38.9	177.5°	697.0	696.0	695.0
36.8	36.8	36.8	37.3	37.3	37.9	38.4	37.9	37.9	180°	700.0	700.0	700.0
35.8	35.2	34.7	35.2	35.8	35.8	36.3	35.8	36.3				
34.2	33.6	33.1	33.1	33.6	33.6	34.2	33.6	33.6				
31.5	31.5	30.5	30.5	30.5	30.5	31.0	30.5	30.0				
28.4	28.4	27.3	27.3	27.3	27.3	26.8	26.8	26.8				
23.7	24.2	24.2	23.7	23.7	23.1	23.1	22.6	22.1				
17.9	18.9	19.5	19.5	19.5	19.5	19.5	18.4	17.3				
12.6	14.2	15.8	15.8	15.2	15.2	15.2	13.7	12.1				
7.9	9.5	10.0	11.0	9.5	8.9	8.9	7.9	7.4				
7.0	7.0	8.1	8.5	10.6	10.6	11.1	9.1	7.5				
6.0	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0				
7.0	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0				
9.0	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0				
21.0	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0				
40.0	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0				
63.0	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0				
88.0	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0				



REPORT NUMBER: P227214

CATALOG NUMBER: IST-AF-600-LED-E1-SLL-7030-L

SLL-7030-ULG

**CANDELA DISTRIBUTION (continued):**

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	0°	1032.0	1032.0	1032.0	1032.0
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	886.4	905.9	908.5	911.1
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	728.7	748.1	737.1	741.8
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	532.1	519.4	535.7	545.7
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	388.5	403.3	409.6	421.1
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	322.3	331.7	343.3	361.7
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	261.3	268.1	282.9	300.7
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	190.3	200.3	209.8	224.5
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	127.8	132.0	143.5	150.4
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	102.5	104.1	106.2	112.0
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	92.0	93.1	94.6	96.7
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	83.6	84.1	85.7	86.7
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	76.2	75.7	76.2	77.8
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	68.3	68.3	69.4	69.4
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	58.9	58.4	59.4	61.0
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	54.2	54.7	55.7	56.8
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	51.5	52.0	53.1	54.2
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	48.9	49.9	51.0	52.6
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	47.3	48.4	49.9	51.5
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	46.8	47.8	49.4	51.5
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	45.7	47.3	48.9	51.0
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	45.7	46.8	48.4	51.0
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	44.2	45.7	47.3	49.9
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	43.1	44.2	46.3	49.4
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	42.6	43.6	45.7	48.9
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	41.5	43.1	45.2	48.4
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	40.5	42.1	44.2	47.3
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	38.9	41.0	43.1	45.2
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	37.9	38.9	41.0	43.1
								70°	35.8	36.8	38.4	40.0
								72.5°	33.1	33.6	34.7	36.3
								75°	29.4	30.0	30.5	32.1
								77.5°	25.8	25.8	26.3	28.4
								80°	21.6	21.6	22.1	23.1
								82.5°	16.3	16.3	17.3	18.9
								85°	11.6	11.0	12.6	13.7
								87.5°	6.8	6.3	6.8	6.8
								90°	7.5	8.6	9.1	10.1
								92.5°	6.0	6.0	6.0	6.0
								95°	7.0	7.0	7.0	7.0
								97.5°	8.0	8.0	8.5	9.0
								100°	19.0	19.0	21.0	23.0
								102.5°	38.0	39.0	40.5	42.0
								105°	61.0	61.0	63.0	65.0
								107.5°	86.0	87.0	88.5	90.0





REPORT NUMBER: P227214

CATALOG NUMBER: IST-AF-600-LED-E1-SLL-7030-ULG

ILG

**CANDELA DISTRIBUTION (continued):**

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	110°	117.0	116.0	117.5	119.0	120.0
921.6	916.4	920.6	936.9	942.7	950.0	974.7	112.5°	147.0	147.0	148.0	149.0	149.5
753.4	760.2	753.4	786.5	788.1	810.2	819.1	115°	178.0	177.0	178.0	179.0	180.5
553.6	562.6	577.3	599.4	605.7	637.2	664.0	117.5°	209.0	208.0	209.0	210.0	212.5
432.2	443.7	464.2	477.9	491.6	510.0	531.5	120°	243.0	243.0	244.0	245.0	247.5
383.8	395.9	413.8	431.1	450.6	464.8	482.6	122.5°	277.0	276.0	277.0	278.0	280.5
320.7	339.6	357.0	379.6	395.9	421.7	442.7	125°	310.0	310.0	310.0	310.0	312.5
245.0	271.3	288.6	316.0	340.7	363.3	391.7	127.5°	347.0	345.0	345.5	346.0	346.0
170.3	190.8	212.9	242.4	274.4	305.5	343.3	130°	380.0	379.0	380.0	381.0	381.0
117.2	128.3	145.1	175.6	208.7	253.4	294.4	132.5°	415.0	414.0	414.0	414.0	415.0
99.9	104.1	110.4	125.1	153.0	201.9	247.1	135°	451.0	450.0	448.5	447.0	447.5
88.9	92.0	96.2	103.6	118.3	151.9	201.9	137.5°	482.0	481.0	478.5	476.0	475.5
81.5	85.2	89.4	94.6	102.5	125.7	163.0	140°	511.0	509.0	506.5	504.0	503.0
71.5	74.1	77.8	83.6	89.4	107.8	144.1	142.5°	536.0	534.0	533.5	533.0	533.0
63.1	66.2	71.0	75.2	81.0	95.7	130.9	145°	560.0	558.0	559.5	561.0	561.5
58.9	62.0	66.2	69.9	74.1	86.2	121.4	147.5°	585.0	583.0	584.5	586.0	585.5
56.3	59.4	63.6	66.8	69.4	83.1	117.8	150°	610.0	606.0	604.5	603.0	601.5
54.7	58.4	62.0	64.1	69.4	84.6	108.8	152.5°	628.0	623.0	620.5	618.0	616.0
54.2	57.8	62.0	65.7	76.2	79.9	103.0	155°	641.0	638.0	637.0	636.0	633.5
54.7	57.8	63.1	73.6	74.1	75.7	96.7	157.5°	655.0	650.0	650.0	650.0	649.0
54.7	59.4	70.5	76.8	70.5	71.5	91.0	160°	666.0	660.0	660.5	661.0	662.5
55.2	61.5	73.1	71.5	68.3	66.8	84.6	162.5°	674.0	668.0	669.0	670.0	670.5
55.2	60.5	69.9	67.3	63.1	63.6	77.3	165°	682.0	678.0	679.0	680.0	678.5
53.6	60.5	67.3	61.0	57.8	60.5	71.0	167.5°	694.0	688.0	688.0	688.0	686.0
52.6	62.0	59.9	56.3	56.3	58.9	67.8	170°	701.0	696.0	695.0	694.0	691.5
52.0	63.6	56.8	54.7	54.7	58.4	66.2	172.5°	701.0	696.0	695.0	694.0	693.0
50.5	59.4	52.0	51.0	52.6	55.2	64.1	175°	699.0	694.0	695.0	696.0	695.5
47.3	49.4	47.8	47.8	49.9	53.1	63.1	177.5°	702.0	698.0	699.5	701.0	700.0
43.6	44.7	44.7	45.2	47.3	49.9	64.1	180°	700.0	700.0	700.0	700.0	700.0
40.5	40.5	41.5	42.1	43.6	47.3	61.5						
36.8	37.3	37.3	38.4	39.4	43.1	59.4						
32.6	32.6	33.6	33.6	35.2	38.9	53.1						
28.4	28.4	28.4	28.9	30.0	33.6	43.6						
23.7	23.7	23.7	24.2	24.7	27.9	33.1						
18.9	18.4	17.9	17.9	18.9	21.6	25.8						
13.1	13.1	12.6	12.6	12.6	14.2	17.3						
7.4	6.3	6.8	7.4	6.8	7.9	9.5						
9.5	10.1	9.6	9.1	9.1	9.1	10.7						
6.5	7.0	7.0	7.0	6.5	6.0	6.0						
7.5	8.0	7.5	7.0	7.0	7.0	7.0						
9.5	10.0	11.0	12.0	10.5	9.0	9.0						
24.5	26.0	27.5	29.0	25.0	21.0	16.5						
44.5	47.0	48.5	50.0	45.0	40.0	33.5						
67.5	70.0	71.0	72.0	67.5	63.0	55.5						
92.0	94.0	94.5	95.0	91.5	88.0	80.5						



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**CANDELA DISTRIBUTION (continued):**

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
121.0	120.5	120.0	117.0	114.0	108.0	0°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	971.6	985.3	1006.8	1011.0	1028.4	1040.5
182.0	180.5	179.0	176.5	174.0	171.0	5°	823.3	855.9	867.5	890.1	929.5	949.5
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	679.3	704.0	731.8	768.1	797.0	831.2
250.0	248.0	246.0	244.5	243.0	240.0	10°	558.9	594.1	630.4	659.8	700.3	741.3
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	496.3	515.8	551.5	593.0	643.5	689.3
315.0	314.0	313.0	311.5	310.0	307.5	15°	463.7	486.8	525.2	569.4	623.0	679.8
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	423.2	460.0	503.7	566.8	636.2	715.0
381.0	379.0	377.0	374.5	372.0	371.0	20°	383.3	428.0	485.3	568.3	664.5	767.1
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	348.0	401.1	473.7	577.8	700.8	837.5
448.0	445.5	443.0	440.0	437.0	436.0	25°	306.5	377.5	464.8	597.3	756.6	932.2
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	273.4	354.9	451.6	614.1	807.6	1023.1
502.0	501.0	500.0	498.5	497.0	494.0	30°	236.6	328.6	433.2	619.9	869.6	1097.8
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	207.1	303.9	412.2	614.6	897.5	1149.8
562.0	559.0	556.0	553.5	551.0	550.5	35°	193.0	286.0	394.3	596.2	920.6	1206.1
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	183.5	266.6	377.0	565.7	946.9	1261.8
600.0	598.5	597.0	595.0	593.0	593.0	40°	171.4	251.3	362.8	543.6	967.4	1308.1
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	160.4	237.6	351.7	524.2	972.6	1349.6
631.0	628.5	626.0	627.0	628.0	629.0	45°	150.9	229.2	343.3	525.2	976.3	1407.4
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	143.5	221.3	340.2	543.1	1015.2	1487.9
664.0	661.0	658.0	656.5	655.0	655.0	50°	136.7	214.5	334.9	577.8	1077.8	1596.7
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	128.8	205.0	328.1	613.6	1146.1	1742.3
677.0	674.5	672.0	672.5	673.0	673.0	55°	118.3	192.4	320.7	643.5	1239.2	1919.5
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	102.0	177.7	316.0	658.8	1296.5	2021.5
689.0	687.5	686.0	688.5	691.0	692.0	59°	93.6	163.5	313.3	651.4	1311.7	2038.9
692.0	690.5	689.0	689.5	690.0	690.0	60°	88.9	155.1	309.1	642.5	1316.0	2027.8
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	82.5	135.1	291.8	597.8	1257.1	1894.3
699.0	696.5	694.0	694.5	695.0	696.0	65°	84.1	127.8	252.4	508.9	1122.0	1633.5
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	86.2	124.6	218.2	411.1	894.3	1351.7
						70°	84.6	123.0	198.2	327.0	669.8	1012.1
						72.5°	82.5	116.2	171.9	262.9	424.8	708.7
						75°	73.1	97.8	135.1	180.3	268.1	516.3
						77.5°	57.3	75.2	95.7	112.0	136.2	364.3
						80°	42.1	54.7	62.6	67.3	75.7	248.7
						82.5°	30.0	36.8	40.0	42.6	50.5	186.1
						85°	22.6	25.8	27.9	27.9	34.2	131.4
						87.5°	12.6	13.1	13.1	14.2	16.8	35.8
						90°	11.7	11.7	11.2	11.2	9.6	8.1
						92.5°	6.0	6.0	6.0	5.5	5.0	4.5
						95°	7.0	7.0	7.0	6.5	6.0	5.5
						97.5°	9.0	8.5	8.0	8.0	8.0	7.5
						100°	12.0	11.0	10.0	9.5	9.0	8.5
						102.5°	27.0	22.5	18.0	15.5	13.0	12.0
						105°	48.0	42.0	36.0	31.5	27.0	24.5
						107.5°	73.0	65.5	58.0	53.5	49.0	45.5



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**CANDELA DISTRIBUTION (continued):**

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
1032.0	1032.0	1032.0	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
1054.1	1062.0	1068.3	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
980.0	999.5	1003.1	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
869.1	900.6	911.7	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
787.6	821.7	833.3	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
742.9	782.8	795.5	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
743.9	791.8	810.2	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
792.3	847.0	869.6	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
875.4	954.8	971.6	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
987.9	1065.7	1090.9	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
1093.6	1196.6	1216.1	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
1197.7	1299.7	1317.0	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
1278.1	1384.8	1399.5	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
1355.4	1475.8	1492.1	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
1441.6	1574.6	1593.5	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
1519.4	1671.9	1684.0	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
1605.6	1751.3	1754.4	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
1676.1	1810.2	1811.2	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
1744.4	1865.4	1865.9	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
1815.9	1925.8	1917.9	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
1929.0	1997.3	2005.2	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
2100.9	2161.9	2170.8	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
2300.7	2385.3	2373.2	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
2385.3	2482.1	2492.1	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
2371.1	2503.1	2519.9	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
2348.5	2496.8	2517.3	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
2220.2	2431.1	2463.1	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
2004.7	2294.9	2340.1	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
1727.6	2091.4	2127.7	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
1348.0	1699.8	1730.8								
895.9	1167.2	1220.8								
569.4	752.9	742.9								
420.1	489.5	490.0								
304.9	336.0	332.3								
236.1	205.0	204.5								
82.5	72.6	71.0								
35.8	30.0	30.5								
6.6	6.6	7.1								
4.0	4.0	4.0								
5.0	5.0	5.0								
7.0	7.0	7.0								
8.0	8.0	8.0								
11.0	11.0	11.0								
22.0	21.2	21.0								
42.0	41.2	41.0								



359°	360°
66.4	66.0
99.0	99.0
139.8	140.0
184.0	184.0
224.6	225.0
262.4	263.0
297.2	298.0
329.8	330.0
362.6	363.0
395.6	396.0
428.4	429.0
459.4	460.0
487.4	488.0
517.4	518.0
549.2	550.0
574.4	575.0
594.4	595.0
610.4	611.0
628.2	629.0
645.4	646.0
662.4	663.0
672.2	673.0
680.4	681.0
689.4	690.0
697.4	698.0
698.6	699.0
699.6	700.0
706.6	707.0
700.0	700.0

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