

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: P271743

Luminaire Tested: **IST-AF-1200-LED-E1-SL3-7027-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271743  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: IST-AF-1200-LED-E1-SL3-7027-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, WITH UPLIGHT  
GLOW  
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7373.6 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G2

Input Watts (W): 82.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

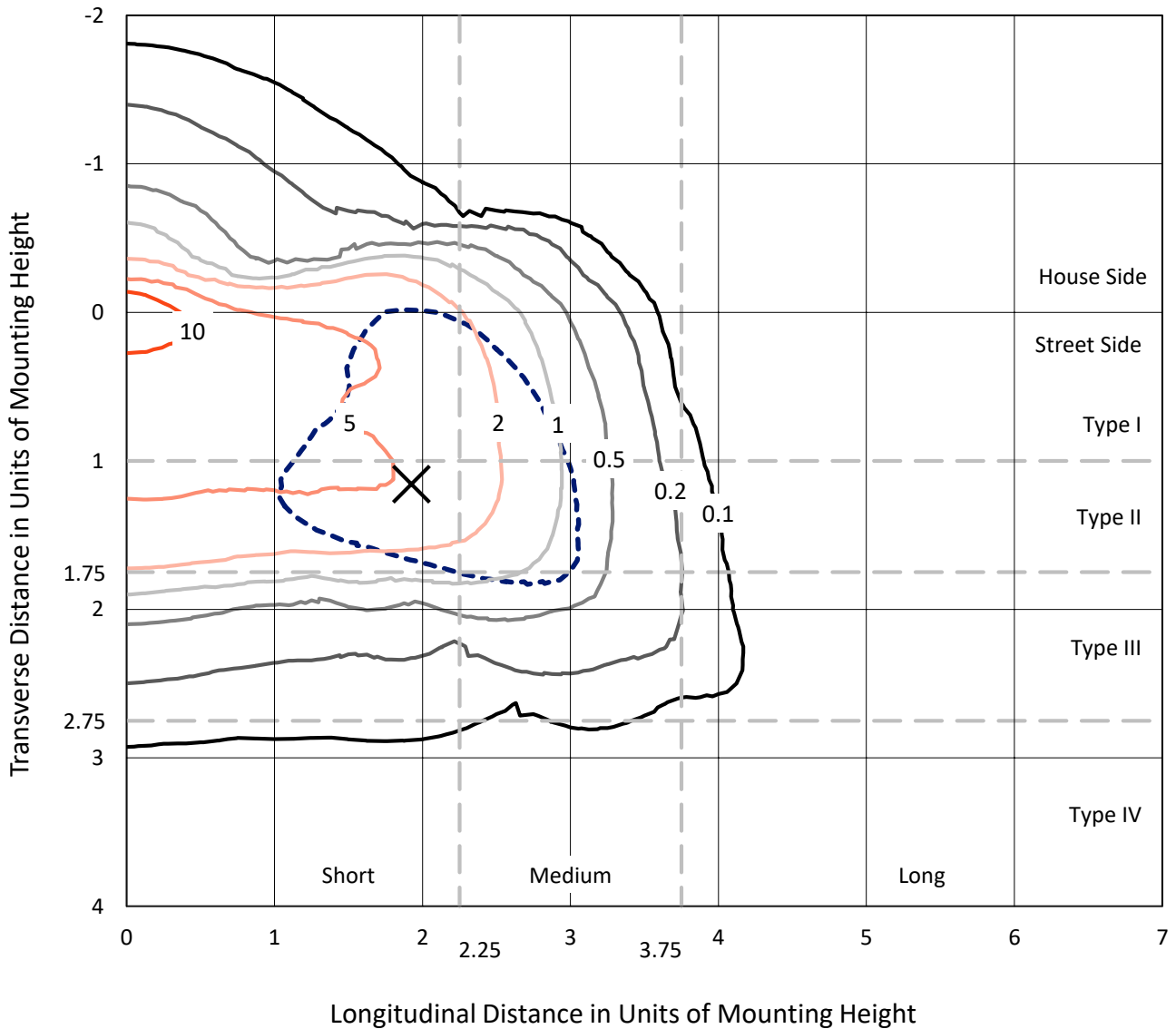


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### Iso-Footcandle Lines of Horizontal Illumination

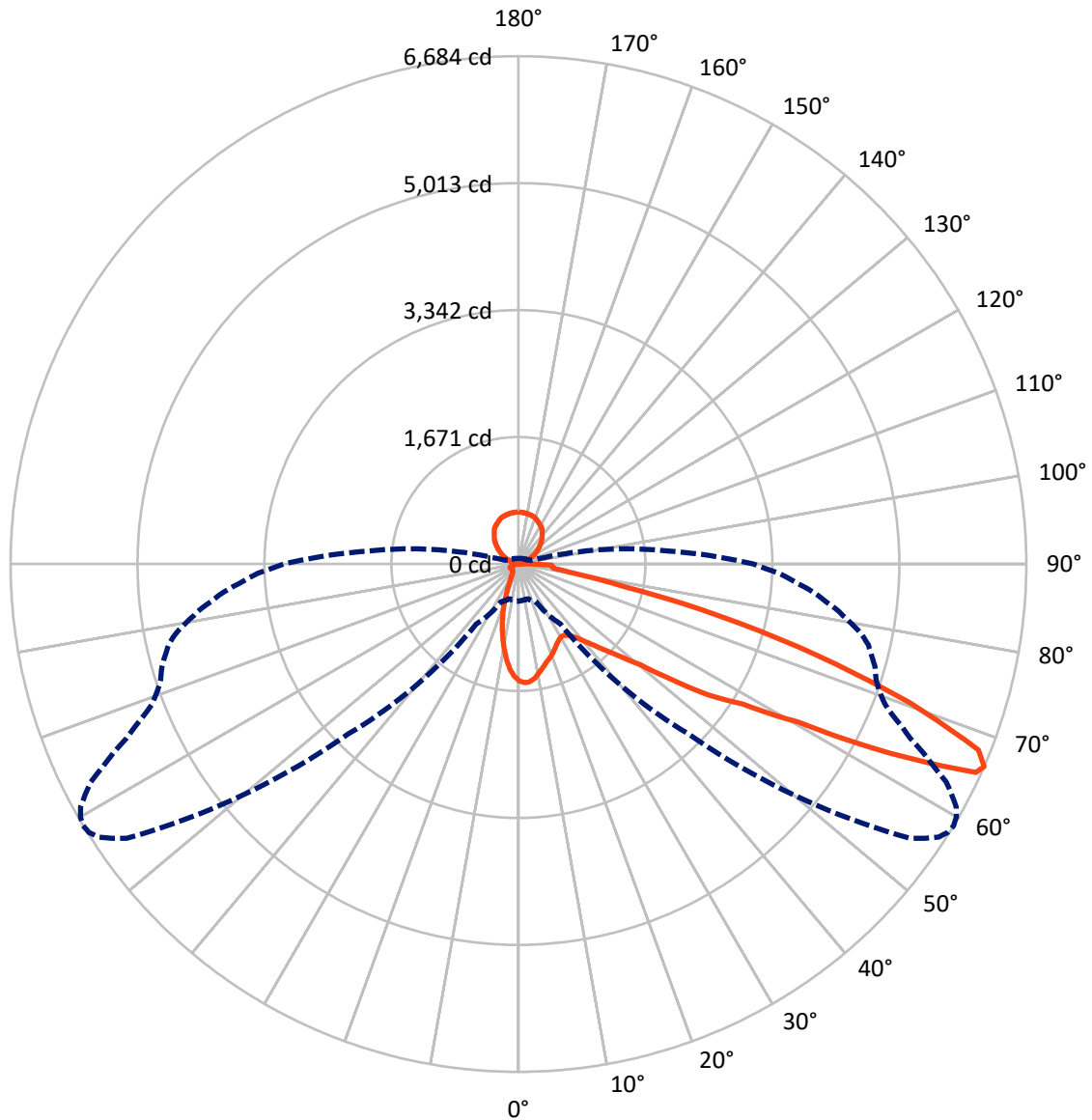
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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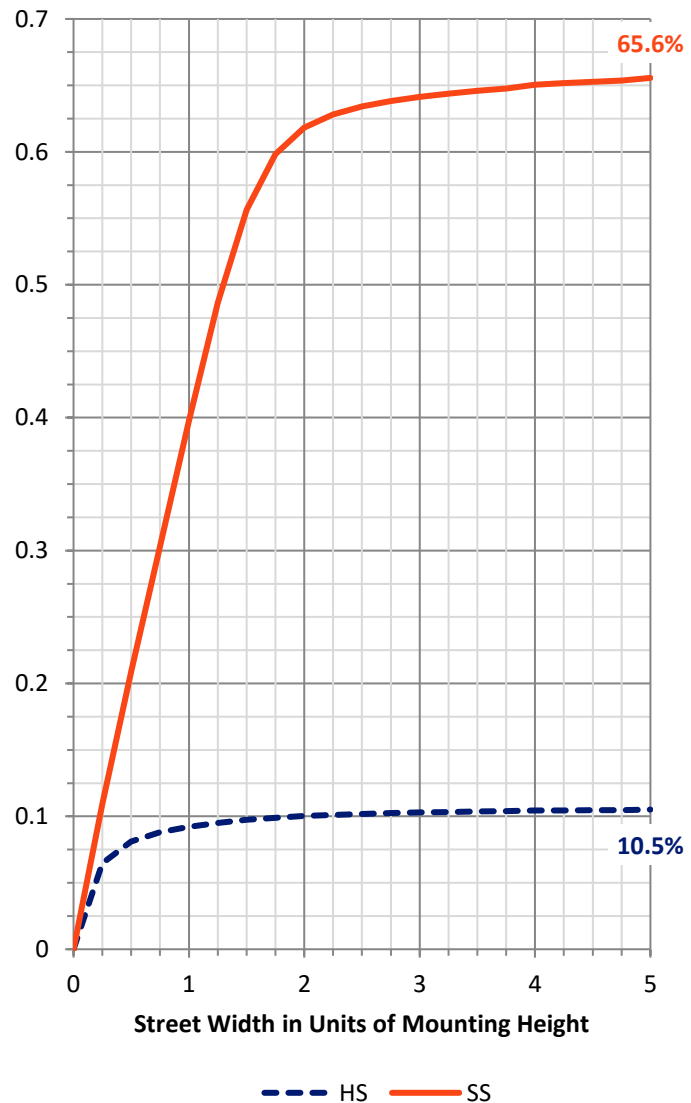
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	787.1	851.8	1639.0
	% Fixture	10.7	11.6	22.2
<b>Street Side</b>	Lumens	4881.1	853.6	5734.7
	% Fixture	66.2	11.6	77.8
<b>Total</b>	Lumens	5668.2	1705.4	7373.6
	% Fixture	76.9	23.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.3	1.8
10°-20°	277.4	3.8
20°-30°	347.9	4.7
30°-40°	476.0	6.5
40°-50°	765.7	10.4
50°-60°	1330.6	18.0
60°-70°	1616.6	21.9
70°-80°	603.1	8.2
80°-90°	119.6	1.6
90°-100°	11.5	0.2
100°-110°	56.3	0.8
110°-120°	163.0	2.2
120°-130°	268.1	3.6
130°-140°	330.6	4.5
140°-150°	338.2	4.6
150°-160°	284.9	3.9
160°-170°	187.6	2.5
170°-180°	65.0	0.9
0°-90°	5668.2	76.9
0°-180°	7373.6	100.0



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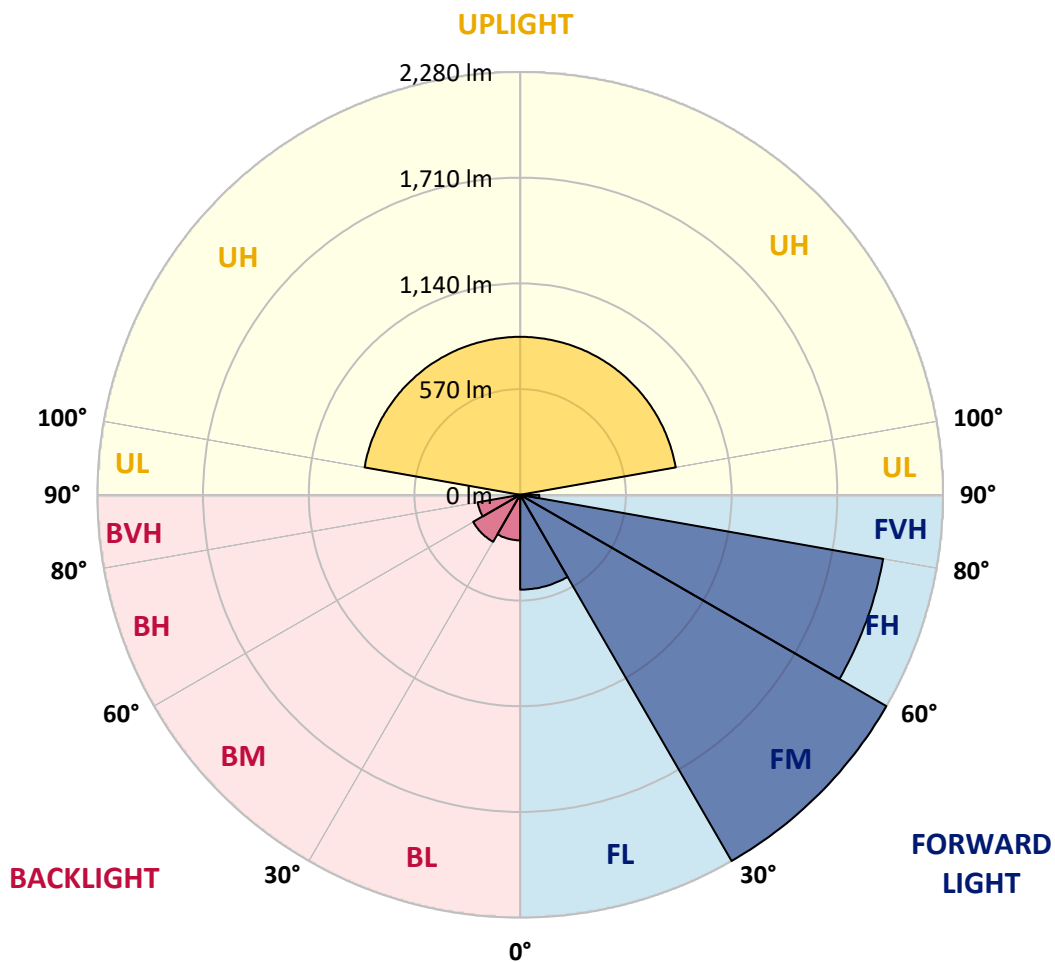
CATALOG NUMBER: IST-AF-1200-LED-E1-SL3-7027-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.3	6.9			
FM (30°-60°)	2279.8	30.9			
FH (60°-80°)	1987.1	26.9			G2/5000
FVH (80°-90°)	102.8	1.4			G2/225
BL (0°-30°)	245.3	3.3	B1/500		
BM (30°-60°)	292.5	4.0	B1/1000		
BH (60°-80°)	232.6	3.2	B1/500		G1/500
BVH (80°-90°)	16.8	0.2			G1/100
UL (90°-100°)	11.5	0.2		U2/50	
UH (100°-180°)	851.8	11.6		U4/1000	

**BUG Rating: B1-U5-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2
2.5°	1580.3	1575.1	1584.6	1581.2	1583.7	1570.7	1568.1	1565.5	1567.3	1564.6	1564.6
5°	1542.9	1540.2	1551.6	1557.8	1562.9	1561.2	1560.3	1560.3	1561.2	1555.1	1556.0
7.5°	1433.3	1431.6	1447.3	1458.6	1483.8	1498.6	1517.7	1518.6	1520.3	1517.7	1522.9
10°	1316.8	1322.0	1336.0	1354.3	1391.7	1414.2	1450.8	1457.7	1460.4	1461.1	1462.0
12.5°	1205.6	1200.5	1217.8	1252.6	1303.0	1339.6	1385.5	1389.0	1393.5	1399.5	1405.6
15°	1106.5	1112.6	1126.6	1163.0	1216.0	1267.4	1327.3	1330.7	1339.6	1344.8	1353.4
17.5°	1038.7	1038.7	1054.4	1088.3	1137.8	1203.0	1278.6	1284.8	1291.7	1298.6	1308.2
20°	1004.8	1004.8	1011.0	1031.0	1074.4	1137.0	1228.3	1235.2	1247.4	1255.2	1268.1
22.5°	1002.1	1001.3	1000.5	1004.8	1031.0	1079.7	1174.4	1183.9	1194.4	1206.5	1217.8
25°	1030.1	1032.6	1022.2	1015.3	1017.9	1040.5	1123.0	1128.3	1148.2	1156.1	1170.0
27.5°	1070.0	1074.4	1065.7	1055.3	1039.6	1024.9	1079.7	1088.3	1101.3	1114.3	1131.8
30°	1127.5	1126.6	1125.7	1118.7	1088.3	1042.2	1066.6	1072.7	1084.0	1094.3	1109.1
32.5°	1189.1	1196.0	1201.2	1197.8	1166.4	1088.3	1084.8	1090.0	1100.4	1106.5	1116.1
35°	1269.0	1272.6	1292.5	1292.5	1261.3	1170.9	1136.1	1140.4	1145.7	1148.2	1155.2
37.5°	1356.9	1369.1	1398.6	1416.0	1367.3	1273.4	1216.9	1216.9	1219.4	1221.2	1225.6
40°	1458.6	1475.9	1516.8	1549.8	1518.6	1401.2	1322.9	1330.7	1328.1	1324.7	1334.3
42.5°	1576.7	1595.9	1645.4	1676.8	1658.5	1555.1	1465.6	1460.4	1468.1	1457.7	1461.1
45°	1714.1	1728.9	1779.4	1812.3	1827.2	1743.7	1652.4	1642.0	1642.0	1619.4	1629.0
47.5°	1837.6	1842.0	1890.7	1948.9	1996.7	1998.4	1869.7	1862.7	1846.3	1831.5	1828.1
50°	1952.3	1965.3	1996.7	2060.0	2160.1	2247.0	2168.8	2146.9	2128.7	2074.0	2090.4
52.5°	2151.4	2176.5	2196.5	2234.8	2353.0	2529.4	2625.9	2592.1	2587.7	2538.1	2526.8
55°	2188.7	2191.3	2257.4	2478.2	2756.3	2883.2	3068.4	3067.5	3081.5	3065.7	3051.0
57.5°	2013.1	1992.4	2102.7	2393.8	2952.8	3604.7	3548.2	3554.3	3536.1	3488.2	3473.5
60°	1568.1	1585.5	1704.5	2075.7	2811.1	4070.6	4443.6	4333.2	4412.3	4287.9	4221.0
62.5°	882.2	862.2	943.1	1333.4	2306.1	4094.9	5663.1	5675.2	5713.5	5643.9	5480.5
65°	569.3	560.6	552.9	674.5	1382.1	3582.1	6337.5	6487.1	6576.6	6613.1	6615.7
66°	489.4	482.4	472.9	552.0	963.2	3156.1	6294.2	6454.1	6596.6	6664.3	6684.4
67.5°	416.4	405.9	404.1	457.1	670.1	2448.6	5879.5	6130.8	6256.8	6432.3	6527.9
70°	318.1	312.9	328.6	394.6	514.5	1152.5	4685.2	5012.8	5230.1	5367.6	5456.1
72.5°	266.9	265.1	286.9	360.7	487.6	653.7	3279.6	3631.7	3858.5	3989.8	4111.5
75°	208.7	210.3	238.9	344.2	485.1	569.3	1905.3	2240.9	2373.1	2579.9	2738.0
77.5°	156.5	154.7	177.3	278.1	472.9	577.3	990.0	1129.1	1274.2	1379.4	1417.7
80°	109.5	111.3	126.9	191.2	368.6	593.7	617.1	649.4	679.7	713.6	720.6
82.5°	73.0	73.9	93.9	131.2	255.6	566.7	576.4	561.5	538.1	508.5	476.3
85°	44.4	46.0	66.9	88.7	198.2	512.8	596.3	557.2	521.6	482.4	443.3
87.5°	22.5	25.2	40.0	52.1	117.4	253.0	620.5	591.9	543.3	483.3	439.8
90°	11.0	11.0	15.6	20.9	31.4	58.2	163.3	148.0	77.6	141.3	73.8
92.5°	4.0	4.0	4.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8
95°	4.9	4.9	5.9	6.8	6.8	6.8	6.8	7.0	7.1	7.2	7.3
97.5°	6.8	6.8	7.8	7.8	8.8	8.8	11.8	11.6	11.4	11.2	11.0
100°	7.8	7.8	8.8	9.8	11.8	20.6	28.5	28.2	27.8	27.6	27.3
102.5°	10.8	10.8	12.8	17.7	26.5	39.3	49.0	48.8	48.5	48.1	47.9
105°	20.6	21.6	26.5	35.3	47.1	61.8	70.7	70.4	70.2	70.1	69.9
107.5°	40.2	41.2	48.1	57.0	71.7	86.3	93.2	93.2	93.1	93.0	92.9

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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	64.8	66.7	72.7	85.4	100.1	111.9	117.8	117.9	117.9	118.0	118.1
112.5°	97.2	97.2	104.0	118.8	131.5	140.3	145.3	145.4	145.6	145.9	146.1
115°	137.4	136.5	144.3	156.0	164.9	170.8	175.7	176.0	176.2	176.6	176.9
117.5°	180.6	180.6	185.5	193.3	198.3	201.2	207.1	207.5	207.9	208.2	208.7
120°	220.8	218.8	221.8	228.7	232.6	238.5	241.5	241.8	242.3	242.6	243.0
122.5°	258.2	255.2	256.2	262.0	266.0	271.8	273.8	274.3	274.6	275.0	275.4
125°	292.5	288.5	290.5	293.5	299.3	304.3	307.2	307.4	307.6	307.8	308.0
127.5°	323.9	322.9	322.9	326.8	332.7	333.7	338.6	338.8	338.8	338.9	339.0
130°	356.3	354.3	355.3	359.2	363.2	365.1	370.0	370.4	370.8	371.2	371.6
132.5°	388.7	386.7	385.7	393.5	396.5	397.5	403.4	403.9	404.3	404.9	405.3
135°	421.0	418.1	418.1	424.0	427.0	428.9	434.8	435.3	435.8	436.3	436.8
137.5°	451.5	448.5	450.5	451.5	455.4	459.3	464.2	464.4	464.6	464.9	465.1
140°	479.0	476.0	478.0	480.0	481.9	487.8	490.7	490.9	491.1	491.4	491.6
142.5°	508.4	505.5	507.5	508.4	511.3	515.3	517.2	517.9	518.4	519.0	519.6
145°	539.8	535.9	534.0	536.8	539.8	540.8	545.7	546.3	546.9	547.4	548.1
147.5°	564.3	561.4	560.5	563.3	563.3	564.3	569.3	569.7	570.2	570.7	571.2
150°	584.0	581.0	582.0	582.0	582.0	582.0	586.0	586.2	586.5	586.9	587.1
152.5°	599.7	596.7	596.7	597.7	598.7	598.7	599.7	600.0	600.2	600.6	600.9
155°	617.3	613.5	613.5	615.4	618.3	616.3	614.4	614.9	615.4	615.9	616.3
157.5°	634.0	631.1	631.1	632.0	634.0	633.0	632.0	632.5	632.9	633.2	633.7
160°	650.7	647.8	646.8	643.8	642.8	642.8	645.8	646.4	647.0	647.6	648.1
162.5°	660.5	656.6	656.6	652.7	648.8	650.7	654.7	655.0	655.4	655.9	656.2
165°	668.4	665.5	663.5	663.5	660.5	660.5	659.5	660.1	660.5	661.1	661.5
167.5°	677.2	674.3	671.3	673.3	675.3	672.3	665.5	666.0	666.6	667.2	667.8
170°	685.0	682.2	679.2	679.2	680.2	678.2	673.3	673.5	673.9	674.2	674.4
172.5°	686.0	684.1	682.2	680.2	677.2	677.2	676.2	676.5	676.9	677.1	677.4
175°	687.0	685.0	684.1	682.2	678.2	677.2	677.2	677.7	678.2	678.7	679.2
177.5°	693.9	692.0	687.0	686.0	684.1	682.2	681.2	681.6	682.2	682.6	683.1
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2
2.5°	1563.8	1565.5	1563.8	1561.2	1563.8	1561.2	1560.3	1559.4	1560.3	1558.5	1557.8
5°	1556.0	1557.8	1557.8	1552.5	1551.6	1555.1	1549.8	1551.6	1549.8	1548.0	1544.6
7.5°	1518.6	1519.4	1520.3	1516.8	1519.4	1519.4	1517.7	1517.7	1515.9	1516.8	1513.4
10°	1466.4	1469.9	1473.3	1471.6	1470.7	1478.6	1475.1	1477.7	1477.7	1475.1	1475.9
12.5°	1409.9	1416.0	1420.3	1420.3	1423.8	1432.4	1431.6	1433.3	1440.3	1440.3	1437.6
15°	1357.8	1363.9	1370.7	1376.0	1382.9	1389.0	1393.5	1400.4	1403.8	1403.8	1408.1
17.5°	1316.8	1325.6	1333.4	1336.0	1345.6	1356.0	1358.6	1367.3	1372.5	1375.1	1380.3
20°	1276.9	1286.5	1296.1	1304.7	1313.4	1325.6	1331.6	1336.9	1345.6	1350.8	1358.6
22.5°	1230.0	1244.7	1256.9	1267.4	1282.2	1292.5	1304.7	1313.4	1323.8	1331.6	1337.8
25°	1185.7	1205.6	1222.1	1232.6	1252.6	1267.4	1282.2	1295.2	1308.2	1319.5	1328.1
27.5°	1144.8	1167.3	1187.4	1203.9	1225.6	1249.1	1263.8	1285.7	1303.0	1318.6	1329.0
30°	1124.8	1143.9	1164.7	1183.9	1205.6	1235.2	1259.5	1287.3	1309.1	1329.0	1344.8
32.5°	1129.1	1146.5	1164.7	1181.3	1203.9	1237.0	1262.1	1294.3	1326.4	1352.5	1372.5
35°	1163.9	1179.6	1191.7	1206.5	1226.5	1251.7	1278.6	1312.5	1352.5	1387.3	1413.3
37.5°	1237.0	1241.3	1253.5	1264.7	1275.1	1298.6	1323.8	1352.5	1398.6	1435.1	1471.6
40°	1327.3	1338.7	1350.0	1355.1	1367.3	1382.1	1393.5	1423.8	1464.7	1512.5	1552.5
42.5°	1462.0	1466.4	1468.1	1469.9	1474.2	1484.7	1501.2	1528.9	1569.0	1611.6	1655.8
45°	1613.3	1618.5	1623.8	1626.3	1620.3	1626.3	1643.7	1656.7	1695.9	1735.9	1792.4
47.5°	1822.8	1807.1	1799.3	1809.7	1804.5	1817.6	1825.4	1833.2	1880.2	1927.9	1975.7
50°	2091.3	2081.8	2069.7	2070.5	2080.0	2071.4	2076.6	2105.3	2120.9	2161.0	2224.3
52.5°	2520.7	2491.2	2445.2	2425.2	2436.5	2429.5	2432.1	2438.2	2427.8	2465.2	2519.0
55°	3051.0	3012.7	2982.4	2964.9	2900.6	2895.3	2852.7	2837.2	2803.3	2838.9	2826.8
57.5°	3429.1	3404.8	3389.1	3336.9	3307.4	3248.3	3230.9	3210.0	3163.1	3186.6	3207.5
60°	4159.3	4072.4	4042.8	3951.6	3921.1	3864.6	3792.5	3756.8	3732.5	3755.1	3741.2
62.5°	5378.0	5257.2	5233.6	5017.2	4964.1	4833.8	4698.1	4679.9	4603.5	4555.7	4544.3
65°	6567.9	6394.9	6265.4	6029.0	5869.1	5683.0	5476.2	5325.0	5169.4	5091.1	4987.7
66°	6656.6	6587.9	6457.6	6319.3	6086.4	5883.0	5648.3	5484.8	5310.2	5172.8	5084.1
67.5°	6505.3	6468.9	6422.7	6328.9	6182.9	5993.3	5770.8	5562.2	5351.8	5190.1	5048.6
70°	5498.7	5538.7	5590.9	5566.5	5483.2	5409.2	5212.8	5096.4	4938.2	4726.1	4639.0
72.5°	4150.6	4257.4	4221.0	4083.7	4019.4	3968.0	3896.8	3818.5	3591.6	3565.6	3463.1
75°	2670.3	2634.7	2658.2	2491.2	2377.4	2330.5	2161.0	2091.3	1920.9	1810.6	1726.4
77.5°	1407.3	1337.8	1283.9	1137.0	1031.7	970.1	887.4	790.1	640.6	632.0	495.4
80°	652.8	599.8	551.1	499.7	448.5	380.7	330.3	269.4	238.2	204.3	190.4
82.5°	443.3	409.4	379.8	345.9	306.8	259.9	224.3	190.4	162.5	146.1	132.9
85°	401.6	365.1	332.0	289.4	248.7	209.5	171.3	141.8	115.6	100.8	92.2
87.5°	390.2	345.1	310.4	264.2	224.3	184.3	147.8	114.7	89.5	73.0	62.6
90°	57.4	61.1	46.5	44.9	24.3	28.8	23.6	17.6	18.3	15.8	16.7
92.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.6	6.6	6.5	6.4
95°	7.4	7.5	7.5	7.6	7.7	7.8	7.7	7.6	7.5	7.5	7.4
97.5°	10.8	10.6	10.4	10.2	10.0	9.8	9.7	9.6	9.5	9.4	9.3
100°	26.9	26.7	26.4	26.1	25.8	25.5	25.2	25.0	24.6	24.3	24.1
102.5°	47.6	47.3	47.0	46.7	46.4	46.2	45.6	45.2	44.6	44.2	43.7
105°	69.7	69.5	69.3	69.1	68.9	68.7	68.2	67.7	67.2	66.7	66.3
107.5°	92.7	92.6	92.5	92.4	92.3	92.3	91.9	91.4	91.1	90.7	90.3



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CATALOG NUMBER: IST-AF-1200-LED-E1-SL3-7027-ULG

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	118.3	118.4	118.5	118.6	118.7	118.8	118.6	118.4	118.1	117.9	117.8
112.5°	146.2	146.4	146.6	146.9	147.1	147.2	147.1	147.1	147.0	146.9	146.7
115°	177.1	177.4	177.8	178.0	178.3	178.7	178.3	178.0	177.8	177.4	177.1
117.5°	209.0	209.5	209.8	210.2	210.7	211.0	210.6	210.0	209.6	209.0	208.6
120°	243.4	243.8	244.2	244.6	245.0	245.3	244.9	244.4	243.9	243.4	242.9
122.5°	275.8	276.2	276.6	276.9	277.4	277.8	277.3	276.8	276.3	275.8	275.3
125°	308.2	308.4	308.6	308.7	308.9	309.2	308.7	308.2	307.7	307.2	306.7
127.5°	339.1	339.2	339.3	339.4	339.5	339.6	339.6	339.6	339.6	339.6	339.6
130°	372.0	372.3	372.8	373.2	373.5	374.0	374.0	374.0	374.0	374.0	374.0
132.5°	405.9	406.3	406.8	407.3	407.8	408.3	408.1	407.9	407.7	407.5	407.3
135°	437.3	437.7	438.2	438.7	439.2	439.7	439.6	439.5	439.5	439.3	439.2
137.5°	465.2	465.4	465.6	465.8	466.0	466.2	466.3	466.4	466.5	466.6	466.7
140°	491.7	491.9	492.1	492.3	492.5	492.7	492.9	493.1	493.3	493.5	493.7
142.5°	520.2	520.7	521.4	521.9	522.5	523.2	523.2	523.2	523.2	523.2	523.2
145°	548.7	549.2	549.9	550.4	551.0	551.6	551.5	551.4	551.3	551.2	551.1
147.5°	571.7	572.2	572.7	573.2	573.7	574.2	574.3	574.4	574.5	574.6	574.6
150°	587.4	587.7	588.0	588.3	588.6	588.9	589.2	589.5	589.7	590.1	590.4
152.5°	601.1	601.4	601.8	602.0	602.3	602.7	603.0	603.4	603.8	604.2	604.6
155°	616.9	617.3	617.9	618.3	618.8	619.3	619.8	620.3	620.8	621.3	621.8
157.5°	634.0	634.5	634.8	635.2	635.6	636.0	636.2	636.4	636.6	636.8	637.0
160°	648.8	649.4	649.9	650.6	651.1	651.7	651.5	651.1	650.8	650.6	650.2
162.5°	656.6	657.0	657.4	657.8	658.2	658.5	658.5	658.4	658.3	658.2	658.1
165°	662.1	662.5	662.9	663.5	663.9	664.5	664.7	665.0	665.4	665.6	665.9
167.5°	668.4	669.0	669.6	670.1	670.8	671.3	671.8	672.1	672.5	672.9	673.3
170°	674.8	675.1	675.3	675.6	676.0	676.2	676.7	677.2	677.7	678.2	678.7
172.5°	677.7	678.0	678.3	678.6	678.8	679.2	679.4	679.6	679.7	679.9	680.2
175°	679.7	680.2	680.6	681.2	681.6	682.2	682.3	682.4	682.4	682.5	682.6
177.5°	683.6	684.1	684.6	685.0	685.6	686.0	686.2	686.5	686.7	686.8	687.0
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):**

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2
2.5°	1556.0	1553.3	1556.0	1555.1	1551.6	1552.5	1553.3	1549.8	1548.0	1548.0	1547.2
5°	1542.0	1540.2	1542.0	1541.1	1535.9	1535.0	1535.0	1532.5	1528.9	1526.4	1524.6
7.5°	1509.1	1510.7	1509.8	1507.3	1504.6	1504.6	1502.1	1495.9	1492.4	1489.0	1485.4
10°	1471.6	1471.6	1472.5	1471.6	1467.2	1465.6	1462.0	1458.6	1459.5	1450.8	1443.8
12.5°	1438.5	1438.5	1437.6	1436.0	1433.3	1432.4	1432.4	1422.1	1419.4	1416.9	1409.0
15°	1407.3	1409.0	1409.0	1409.0	1404.7	1404.7	1400.4	1393.5	1393.5	1385.5	1377.7
17.5°	1382.9	1385.5	1384.6	1385.5	1386.4	1381.2	1373.4	1369.1	1363.9	1359.5	1349.1
20°	1362.1	1363.9	1364.6	1364.6	1362.1	1358.6	1351.7	1344.8	1341.2	1332.5	1319.5
22.5°	1343.0	1346.4	1347.3	1347.3	1343.9	1341.2	1334.3	1323.8	1316.8	1306.5	1294.3
25°	1335.2	1339.6	1336.9	1338.7	1335.2	1329.0	1319.5	1310.8	1300.4	1287.3	1274.2
27.5°	1337.8	1343.9	1342.1	1341.2	1336.9	1332.5	1320.4	1309.9	1297.7	1282.2	1265.6
30°	1353.4	1363.9	1359.5	1356.0	1355.1	1344.8	1333.4	1318.6	1304.7	1286.5	1267.4
32.5°	1382.9	1388.2	1389.0	1386.4	1382.1	1373.4	1357.8	1338.7	1322.9	1301.3	1278.6
35°	1431.6	1436.9	1435.1	1435.1	1430.8	1416.9	1397.8	1378.6	1356.9	1332.5	1309.1
37.5°	1499.5	1509.1	1507.3	1503.8	1498.6	1482.0	1467.2	1443.8	1419.4	1387.3	1360.3
40°	1584.6	1599.4	1612.4	1609.9	1597.6	1582.8	1569.0	1542.0	1517.7	1482.0	1452.5
42.5°	1699.3	1719.4	1735.9	1748.0	1742.8	1723.7	1699.3	1688.1	1653.3	1616.8	1586.4
45°	1846.3	1888.0	1902.7	1917.5	1917.5	1905.3	1900.2	1877.5	1841.1	1792.4	1763.6
47.5°	2040.1	2095.7	2112.3	2137.4	2152.2	2139.1	2129.6	2091.3	2067.0	2000.1	1993.2
50°	2275.7	2331.3	2376.5	2406.0	2401.7	2412.9	2390.4	2368.7	2334.8	2280.0	2260.9
52.5°	2576.4	2620.7	2661.6	2678.9	2697.3	2694.6	2689.3	2674.6	2632.0	2602.5	2553.8
55°	2885.0	2921.5	2971.1	2999.7	3023.2	3018.8	2998.8	2963.1	2971.1	2909.3	2882.4
57.5°	3236.1	3276.1	3330.1	3357.0	3367.4	3420.5	3407.5	3403.0	3388.2	3366.6	3338.7
60°	3840.3	3851.6	3895.9	3963.7	4047.1	4030.7	4051.4	4065.4	4075.8	4027.1	4023.7
62.5°	4560.0	4573.9	4612.2	4626.0	4638.2	4639.9	4612.2	4612.2	4564.4	4501.8	4453.1
65°	4952.9	4924.1	4898.1	4883.4	4851.2	4822.6	4780.8	4724.3	4643.4	4547.0	4460.1
66°	5009.4	4951.2	4917.2	4879.9	4828.6	4775.6	4726.1	4648.7	4553.9	4439.2	4324.4
67.5°	4954.6	4874.7	4795.5	4740.7	4669.5	4573.9	4486.9	4396.6	4307.0	4149.7	4042.8
70°	4454.9	4359.1	4272.2	4152.3	4039.3	3945.4	3796.0	3638.7	3509.0	3343.9	3238.7
72.5°	3308.3	3195.3	3082.4	2913.7	2749.4	2725.1	2537.4	2352.1	2253.1	2120.1	2013.1
75°	1634.2	1491.5	1289.1	1198.7	1067.5	1003.0	967.5	833.5	801.5	670.1	668.5
77.5°	461.5	396.3	352.0	306.8	287.6	273.8	226.0	216.4	196.5	193.0	181.6
80°	174.7	165.2	160.8	156.5	152.2	149.5	147.8	140.9	137.4	132.1	129.5
82.5°	126.0	122.6	114.7	112.1	108.7	103.5	102.6	98.3	95.6	90.4	88.7
85°	85.2	80.8	76.4	72.1	70.3	69.6	66.9	65.1	63.5	60.8	60.0
87.5°	57.4	53.0	47.8	46.0	45.3	46.0	46.9	45.3	44.4	42.6	41.7
90°	15.8	18.3	17.6	17.6	19.2	17.3	17.2	17.8	16.8	16.6	15.5
92.5°	6.3	6.2	6.1	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9
95°	7.3	7.2	7.1	7.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	9.3	9.2	9.1	8.9	8.8	8.7	8.6	8.5	8.4	8.4	8.3
100°	23.7	23.4	23.2	22.9	22.5	22.2	21.8	21.4	21.0	20.6	20.2
102.5°	43.2	42.7	42.2	41.7	41.2	41.0	40.6	40.3	40.1	39.7	39.4
105°	65.8	65.3	64.8	64.3	63.8	63.4	63.0	62.6	62.3	61.8	61.4
107.5°	89.9	89.5	89.1	88.8	88.3	88.0	87.8	87.5	87.1	86.9	86.6



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	117.6	117.4	117.2	117.0	116.8	116.5	116.2	115.9	115.6	115.3	115.1	0°
112.5°	146.6	146.5	146.4	146.3	146.2	146.1	145.9	145.6	145.4	145.3	145.1	2.5°
115°	176.9	176.6	176.2	176.0	175.7	175.5	175.3	175.1	174.9	174.7	174.5	5°
117.5°	208.0	207.6	207.1	206.6	206.1	205.9	205.7	205.5	205.4	205.2	204.9	7.5°
120°	242.5	241.9	241.5	240.9	240.5	240.3	240.0	239.8	239.7	239.5	239.3	10°
122.5°	274.8	274.3	273.8	273.4	272.8	272.6	272.5	272.3	272.1	271.8	271.6	12.5°
125°	306.2	305.7	305.2	304.7	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°
127.5°	339.6	339.6	339.6	339.6	339.6	339.5	339.4	339.3	339.2	339.1	339.0	17.5°
130°	374.0	374.0	374.0	374.0	374.0	373.8	373.5	373.3	373.2	373.0	372.8	20°
132.5°	407.1	406.9	406.8	406.6	406.3	406.3	406.3	406.3	406.3	406.3	406.3	22.5°
135°	439.1	439.0	438.9	438.8	438.7	439.0	439.3	439.6	439.9	440.2	440.5	25°
137.5°	466.8	466.8	467.0	467.1	467.2	467.7	468.2	468.6	469.2	469.6	470.2	27.5°
140°	493.9	494.1	494.2	494.4	494.7	495.1	495.7	496.1	496.7	497.1	497.6	30°
142.5°	523.2	523.2	523.2	523.2	523.2	523.3	523.4	523.4	523.5	523.6	523.7	32.5°
145°	551.0	550.9	550.8	550.8	550.6	550.3	550.0	549.8	549.4	549.1	548.9	35°
147.5°	574.7	574.8	574.9	575.1	575.2	574.8	574.6	574.3	573.9	573.7	573.4	37.5°
150°	590.6	590.9	591.3	591.5	591.8	592.2	592.4	592.7	593.0	593.3	593.6	40°
152.5°	605.0	605.4	605.7	606.2	606.5	607.1	607.5	608.1	608.5	609.1	609.5	42.5°
155°	622.3	622.7	623.2	623.7	624.2	624.4	624.6	624.8	625.0	625.2	625.4	45°
157.5°	637.2	637.3	637.5	637.8	638.0	638.0	638.0	638.0	638.0	638.0	638.0	47.5°
160°	649.9	649.7	649.4	649.0	648.8	648.7	648.6	648.5	648.4	648.3	648.1	50°
162.5°	658.0	657.9	657.8	657.6	657.6	657.4	657.2	657.0	656.8	656.6	656.4	52.5°
165°	666.3	666.5	666.8	667.1	667.4	667.2	667.0	666.8	666.6	666.5	666.3	55°
167.5°	673.7	674.1	674.4	674.9	675.3	675.3	675.3	675.3	675.3	675.3	675.3	57.5°
170°	679.2	679.7	680.2	680.6	681.2	681.4	681.5	681.7	681.9	682.2	682.4	60°
172.5°	680.4	680.6	680.7	680.9	681.2	681.4	681.5	681.7	681.9	682.2	682.4	62.5°
175°	682.7	682.8	682.9	683.0	683.1	682.9	682.7	682.5	682.4	682.2	681.9	65°
177.5°	687.2	687.5	687.7	687.8	688.0	687.7	687.5	687.1	686.8	686.6	686.2	66°
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°



NUMBER: P271743  
 NUMBER: IST-AF-1200-LED-E1-SL3-7027-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	110°	114.7
1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	110°	114.7
1545.5	1542.9	1543.7	1540.2	1539.4	1541.1	1542.0	1542.0	1539.4	1523.7	1505.5	112.5°	144.9
1522.9	1517.7	1516.8	1514.3	1509.8	1515.1	1512.5	1508.2	1503.0	1484.7	1449.0	115°	174.3
1481.1	1477.7	1473.3	1469.9	1467.2	1465.6	1464.7	1460.4	1450.8	1416.9	1356.9	117.5°	204.7
1441.2	1436.9	1431.6	1423.8	1420.3	1415.1	1415.1	1404.7	1397.8	1355.1	1266.5	120°	239.1
1402.1	1394.3	1391.7	1386.4	1376.8	1372.5	1366.4	1356.0	1345.6	1294.3	1177.8	122.5°	271.5
1372.5	1364.6	1353.4	1350.0	1339.6	1329.9	1322.0	1308.2	1297.0	1229.2	1084.8	125°	304.3
1340.3	1334.3	1322.0	1314.3	1303.0	1291.7	1278.6	1261.3	1253.5	1167.3	996.1	127.5°	338.9
1314.3	1300.4	1286.5	1279.5	1265.6	1252.6	1239.5	1218.7	1203.0	1106.5	902.3	130°	372.5
1283.9	1271.7	1256.9	1244.7	1225.6	1210.8	1196.0	1174.4	1155.2	1044.8	807.6	132.5°	406.3
1262.9	1245.6	1230.0	1216.0	1194.4	1176.9	1156.1	1132.7	1113.4	985.7	703.2	135°	440.8
1250.8	1233.5	1213.4	1196.0	1170.9	1150.9	1128.3	1102.2	1077.9	937.9	605.0	137.5°	470.6
1247.4	1226.5	1205.6	1183.9	1157.8	1132.7	1105.6	1079.7	1048.3	891.8	498.1	140°	498.1
1257.8	1232.6	1209.1	1183.0	1152.5	1123.9	1097.0	1063.1	1031.7	851.9	392.9	142.5°	523.8
1286.5	1256.0	1229.2	1200.5	1165.6	1134.4	1102.2	1064.0	1029.2	824.0	300.8	145°	548.5
1331.6	1303.0	1271.7	1243.1	1203.0	1168.2	1132.7	1091.8	1050.0	812.8	226.9	147.5°	573.1
1422.9	1384.6	1352.5	1322.0	1276.0	1240.4	1199.6	1150.0	1103.1	823.2	189.5	150°	593.9
1550.7	1503.0	1473.3	1446.5	1389.0	1350.0	1303.0	1246.5	1193.5	852.7	166.8	152.5°	609.9
1727.2	1690.7	1637.6	1595.9	1537.7	1494.2	1442.0	1374.2	1315.2	894.4	155.6	155°	625.6
1948.0	1900.2	1848.0	1805.4	1741.9	1666.4	1611.6	1529.8	1462.9	959.6	150.4	157.5°	638.0
2218.3	2161.0	2090.4	2054.9	1967.1	1908.0	1835.0	1747.1	1662.0	1060.4	153.0	160°	648.0
2512.1	2450.4	2395.6	2327.8	2247.8	2181.7	2112.3	2019.2	1912.3	1251.7	163.4	162.5°	656.2
2822.4	2782.4	2730.3	2642.5	2599.0	2515.5	2427.0	2324.4	2247.0	1500.3	188.6	165°	666.0
3274.4	3230.9	3224.8	3138.8	3072.7	2997.1	2927.6	2842.3	2751.1	1941.9	247.8	167.5°	675.3
3969.8	3924.5	3873.3	3806.4	3728.1	3634.3	3548.2	3433.4	3331.7	2384.3	275.5	170°	682.5
4381.8	4298.4	4206.2	4104.5	3990.6	3874.2	3758.6	3611.6	3463.9	2411.2	248.7	172.5°	682.5
4347.0	4243.6	4126.3	3988.0	3868.1	3724.6	3600.4	3410.9	3276.1	2146.9	202.6	175°	681.7
4218.4	4076.7	3966.3	3839.4	3689.0	3560.4	3429.1	3242.3	3088.5	1968.8	185.1	177.5°	685.9
3888.9	3768.1	3615.0	3493.5	3382.2	3228.3	3104.9	2930.2	2824.1	1707.2	166.1	180°	687.0
3108.3	2941.5	2812.0	2717.2	2591.3	2452.1	2342.6	2195.6	2101.9	1130.0	143.4		
1810.6	1768.9	1623.8	1542.0	1465.6	1352.5	1265.6	1195.1	1071.8	547.6	126.9		
558.0	519.0	513.7	436.4	461.5	394.6	384.1	349.4	349.4	210.3	99.9		
178.2	174.7	167.7	158.2	154.7	154.7	150.4	149.5	142.5	113.0	74.8		
126.0	123.4	120.8	118.1	116.5	117.4	113.8	112.1	110.4	81.7	59.1		
87.0	84.4	79.1	79.1	77.3	76.4	77.3	73.9	73.0	57.4	49.6		
59.1	58.2	57.4	56.5	55.7	54.8	53.9	51.3	49.6	40.0	34.8		
39.2	33.1	32.2	27.8	26.9	26.1	24.3	26.1	28.7	28.7	22.5		
16.2	15.1	15.8	15.6	13.8	14.7	14.7	12.9	12.9	15.6	16.7		
5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9		
6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8		
8.2	8.1	7.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.8		
19.9	19.4	19.0	18.7	18.7	18.7	18.7	18.7	18.7	18.7	22.5		
39.2	38.9	38.5	38.3	38.1	37.9	37.7	37.5	37.3	38.3	41.2		
61.1	60.6	60.3	59.8	59.8	59.8	59.8	59.8	59.8	59.8	63.8		
86.2	86.0	85.7	85.4	85.2	85.0	84.8	84.6	84.4	85.4	88.3		

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**TION (continued):**

**CANDELA DISTRIBUTION (con**

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
114.4	114.2	113.8	114.1	114.3	114.4	114.6	114.8	113.8	116.8	0°	1540.2	1540.2
144.6	144.4	144.3	144.3	144.3	144.3	144.3	144.3	144.3	146.2	2.5°	1489.9	1475.9
174.1	173.9	173.7	173.9	174.1	174.3	174.5	174.7	173.7	175.7	5°	1410.8	1379.4
204.5	204.4	204.2	204.4	204.5	204.7	204.9	205.2	204.2	206.1	7.5°	1303.8	1243.1
238.9	238.7	238.5	238.5	238.5	238.5	238.5	238.5	238.5	240.5	10°	1181.3	1093.5
271.3	271.1	270.9	271.1	271.3	271.5	271.6	271.8	270.9	272.8	12.5°	1054.4	942.2
304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°	936.1	787.5
338.8	338.8	338.6	339.0	339.4	339.8	340.2	340.5	338.6	339.6	17.5°	811.9	628.5
372.3	372.2	372.0	372.2	372.3	372.5	372.8	373.0	372.0	374.0	20°	692.8	474.7
406.3	406.3	406.3	406.6	406.8	406.9	407.1	407.3	406.3	406.3	22.5°	558.0	332.9
441.1	441.3	441.7	441.9	442.1	442.2	442.4	442.7	441.7	438.7	25°	409.4	241.6
471.1	471.6	472.1	472.3	472.5	472.7	472.9	473.0	472.1	467.2	27.5°	292.1	193.0
498.6	499.1	499.5	500.0	500.4	500.7	501.2	501.5	499.5	494.7	30°	218.2	162.5
523.9	524.0	524.1	524.5	524.9	525.3	525.7	526.0	524.1	523.2	32.5°	174.7	140.9
548.2	548.0	547.7	548.1	548.4	548.9	549.2	549.7	547.7	550.6	35°	148.6	127.8
572.8	572.5	572.2	572.6	573.0	573.4	573.7	574.2	572.2	575.2	37.5°	132.9	119.0
594.2	594.5	594.8	595.6	596.4	597.1	597.9	598.7	594.8	591.8	40°	124.2	114.7
610.5	610.9	611.5	612.5	613.5	614.4	615.4	616.3	611.5	606.5	42.5°	119.0	110.4
625.8	626.0	626.2	626.7	627.4	627.9	628.5	629.2	626.2	624.2	45°	116.5	107.8
638.0	638.0	638.0	639.0	640.0	640.9	641.9	642.8	638.0	638.0	47.5°	114.7	104.3
647.9	647.9	647.8	648.9	650.1	651.3	652.5	653.7	647.8	648.8	50°	113.0	104.3
656.0	655.9	655.7	656.8	658.0	659.2	660.3	661.5	655.7	657.6	52.5°	113.8	106.0
665.8	665.6	665.5	666.3	667.0	667.8	668.6	669.3	665.5	667.4	55°	118.1	106.0
675.3	675.3	675.3	676.4	677.6	678.8	679.9	681.2	675.3	675.3	57.5°	125.1	106.0
682.7	682.9	683.1	684.1	685.0	686.0	687.0	688.0	683.1	681.2	60°	130.3	107.8
682.7	682.9	683.1	684.1	685.0	686.0	687.0	688.0	683.1	681.2	62.5°	132.1	111.3
681.5	681.4	681.2	682.2	683.1	684.1	685.0	686.0	681.2	683.1	65°	130.3	113.0
685.7	685.4	685.0	685.9	686.7	687.5	688.2	689.0	685.0	688.0	66°	128.6	113.0
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	126.0	111.3
										70°	119.9	104.3
										72.5°	107.8	93.9
										75°	92.2	75.6
										77.5°	74.8	60.8
										80°	55.7	46.0
										82.5°	40.9	35.7
										85°	28.7	25.2
										87.5°	17.3	15.6
										90°	13.1	11.2
										92.5°	6.8	6.8
										95°	7.8	6.8
										97.5°	9.8	11.8
										100°	25.5	28.5
										102.5°	46.2	49.0
										105°	68.7	70.7
										107.5°	92.3	93.2



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**tinued):**

135°	145°	155°	165°	175°	180°
1540.2	1540.2	1540.2	1540.2	1540.2	1540.2
1466.4	1465.6	1443.8	1439.4	1424.7	1432.4
1342.1	1327.3	1288.2	1280.4	1263.8	1259.5
1193.5	1152.5	1121.4	1086.5	1053.5	1070.0
1019.6	950.9	882.2	837.1	818.9	812.8
854.5	731.0	644.9	556.3	525.0	536.3
654.5	513.7	398.9	347.7	318.1	312.9
461.5	329.5	276.4	263.3	257.3	257.3
312.9	251.2	231.2	225.1	225.1	226.0
238.2	211.2	202.6	203.4	206.9	207.8
197.3	186.8	182.5	188.6	195.7	196.5
170.4	167.7	168.6	176.4	183.4	184.3
149.5	152.2	155.6	162.5	168.6	170.4
134.7	139.1	141.8	146.1	149.5	150.4
124.2	129.5	128.6	131.2	133.8	134.7
118.1	120.8	118.1	119.9	119.9	121.7
113.0	113.8	109.5	110.4	112.1	112.1
107.8	106.9	102.6	104.3	106.9	107.8
102.6	100.8	97.4	100.8	105.2	106.0
98.3	96.5	94.7	99.2	104.3	105.2
96.5	94.7	93.1	99.2	104.3	105.2
96.5	94.7	93.1	97.4	102.6	103.5
97.4	95.6	92.2	96.5	99.9	100.8
98.3	96.5	90.4	93.1	94.7	95.6
98.3	94.7	88.7	89.5	89.5	90.4
96.5	92.2	85.2	85.2	84.4	84.4
96.5	88.7	81.7	79.9	78.2	78.2
95.6	87.8	80.8	78.2	75.6	75.6
93.9	86.1	79.1	75.6	73.0	73.0
87.8	82.6	74.8	71.2	68.7	67.8
78.2	75.6	69.6	66.9	64.3	63.5
66.0	66.9	63.5	61.7	59.1	58.2
55.7	57.4	55.7	54.8	53.0	52.1
44.4	47.8	46.0	46.0	46.9	45.3
33.9	38.3	36.5	38.3	40.0	37.4
23.4	27.8	27.8	28.7	29.6	27.8
14.8	18.2	17.3	18.2	18.2	17.3
10.3	13.9	11.3	12.0	9.3	8.4
5.9	5.9	5.9	4.9	4.0	4.0
6.8	6.8	6.8	5.9	4.9	4.9
8.8	8.8	7.8	7.8	6.8	6.8
20.6	11.8	9.8	8.8	7.8	7.8
39.3	26.5	17.7	12.8	10.8	10.8
61.8	47.1	35.3	26.5	21.6	20.6
86.3	71.7	57.0	48.1	41.2	40.2

**CANDELA DISTRIBUTION (continued):**

	115°	125°	135°
110°	118.8	117.8	111.9
112.5°	147.2	145.3	140.3
115°	178.7	175.7	170.8
117.5°	211.0	207.1	201.2
120°	245.3	241.5	238.5
122.5°	277.8	273.8	271.8
125°	309.2	307.2	304.3
127.5°	339.6	338.6	333.7
130°	374.0	370.0	365.1
132.5°	408.3	403.4	397.5
135°	439.7	434.8	428.9
137.5°	466.2	464.2	459.3
140°	492.7	490.7	487.8
142.5°	523.2	517.2	515.3
145°	551.6	545.7	540.8
147.5°	574.2	569.3	564.3
150°	588.9	586.0	582.0
152.5°	602.7	599.7	598.7
155°	619.3	614.4	616.3
157.5°	636.0	632.0	633.0
160°	651.7	645.8	642.8
162.5°	658.5	654.7	650.7
165°	664.5	659.5	660.5
167.5°	671.3	665.5	672.3
170°	676.2	673.3	678.2
172.5°	679.2	676.2	677.2
175°	682.2	677.2	677.2
177.5°	686.0	681.2	682.2
180°	687.0	687.0	687.0



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145°	155°	165°	175°	180°
100.1	85.4	72.7	66.7	64.8
131.5	118.8	104.0	97.2	97.2
164.9	156.0	144.3	136.5	137.4
198.3	193.3	185.5	180.6	180.6
232.6	228.7	221.8	218.8	220.8
266.0	262.0	256.2	255.2	258.2
299.3	293.5	290.5	288.5	292.5
332.7	326.8	322.9	322.9	323.9
363.2	359.2	355.3	354.3	356.3
396.5	393.5	385.7	386.7	388.7
427.0	424.0	418.1	418.1	421.0
455.4	451.5	450.5	448.5	451.5
481.9	480.0	478.0	476.0	479.0
511.3	508.4	507.5	505.5	508.4
539.8	536.8	534.0	535.9	539.8
563.3	563.3	560.5	561.4	564.3
582.0	582.0	582.0	581.0	584.0
598.7	597.7	596.7	596.7	599.7
618.3	615.4	613.5	613.5	617.3
634.0	632.0	631.1	631.1	634.0
642.8	643.8	646.8	647.8	650.7
648.8	652.7	656.6	656.6	660.5
660.5	663.5	663.5	665.5	668.4
675.3	673.3	671.3	674.3	677.2
680.2	679.2	679.2	682.2	685.0
677.2	680.2	682.2	684.1	686.0
678.2	682.2	684.1	685.0	687.0
684.1	686.0	687.0	692.0	693.9
687.0	687.0	687.0	687.0	687.0

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