

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: P226949

Luminaire Tested: **IST-AF-800-LED-E1-SL3-7030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226949  
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-800-LED-E1-SL3-7030-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) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6030.7 lumens  
Efficiency: N/A  
Efficacy: 100.2 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 - G1  
  
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

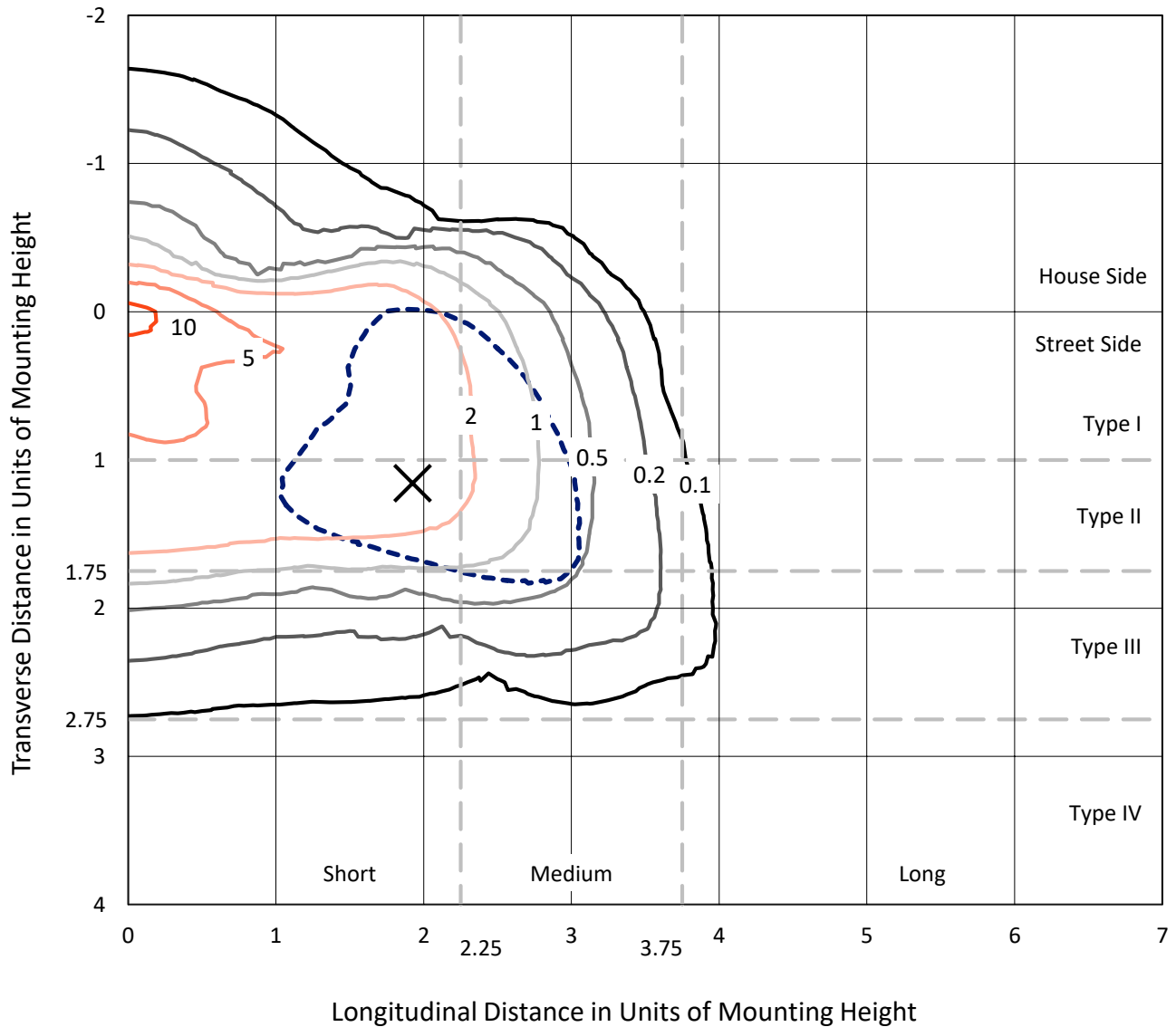


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

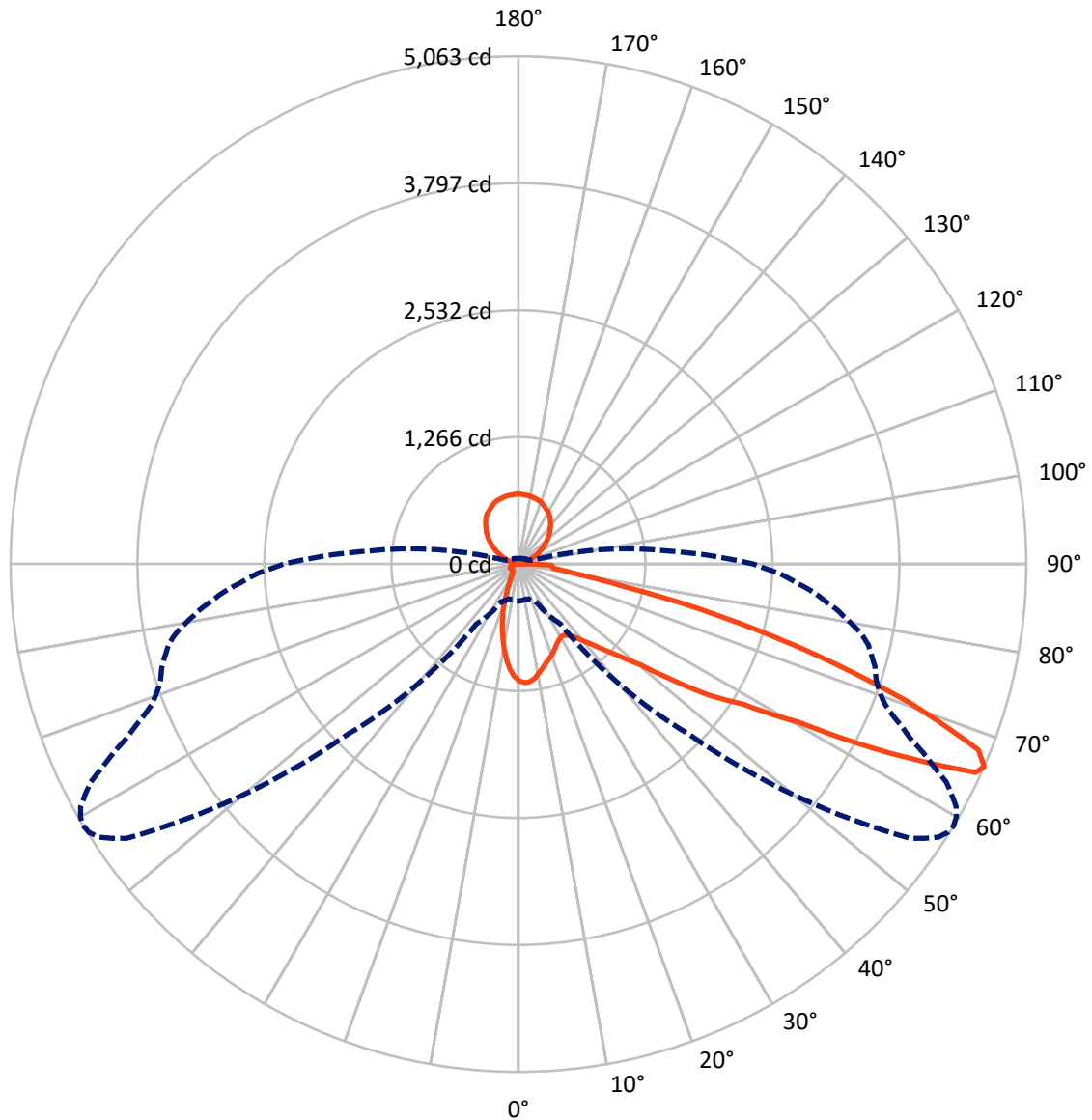


Based on 10 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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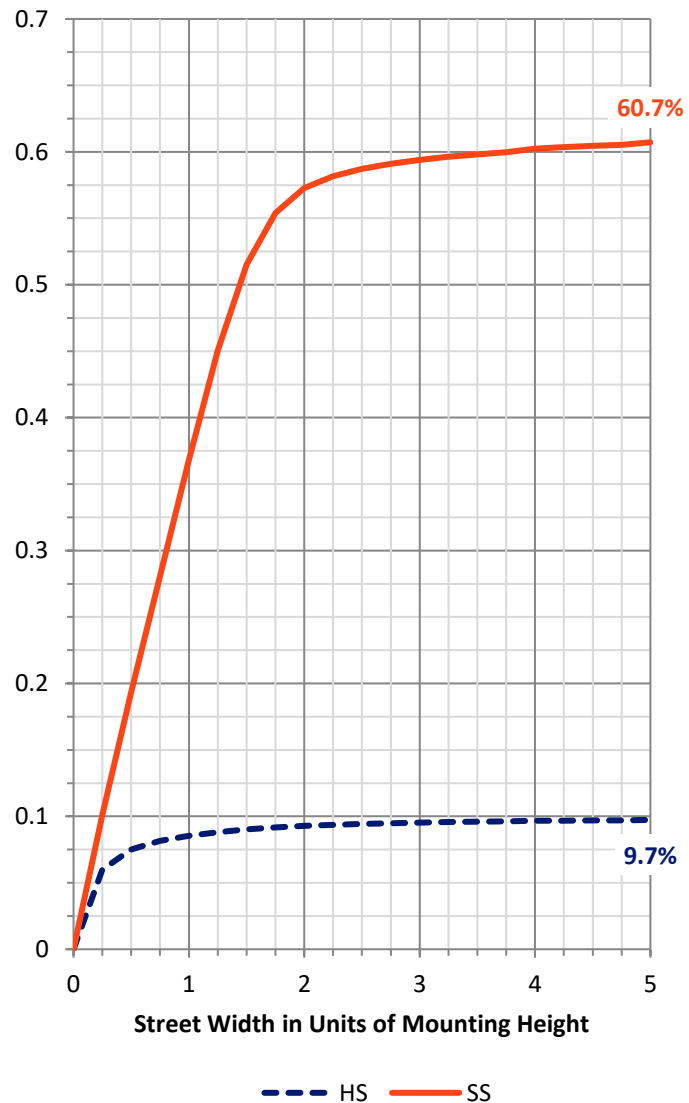
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	596.4	867.8	1464.2
	% Fixture	9.9	14.4	24.3
<b>Street Side</b>	Lumens	3697.4	869.1	4566.5
	% Fixture	61.3	14.4	75.7
<b>Total</b>	Lumens	4293.8	1737.0	6030.7
	% Fixture	71.2	28.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.4	1.6
10°-20°	210.1	3.5
20°-30°	263.5	4.4
30°-40°	360.6	6.0
40°-50°	580.0	9.6
50°-60°	1007.9	16.7
60°-70°	1224.6	20.3
70°-80°	456.8	7.6
80°-90°	90.9	1.5
90°-100°	11.1	0.2
100°-110°	57.4	1.0
110°-120°	166.1	2.8
120°-130°	273.2	4.5
130°-140°	336.8	5.6
140°-150°	344.6	5.7
150°-160°	290.3	4.8
160°-170°	191.2	3.2
170°-180°	66.3	1.1
0°-90°	4293.8	71.2
0°-180°	6030.7	100.0



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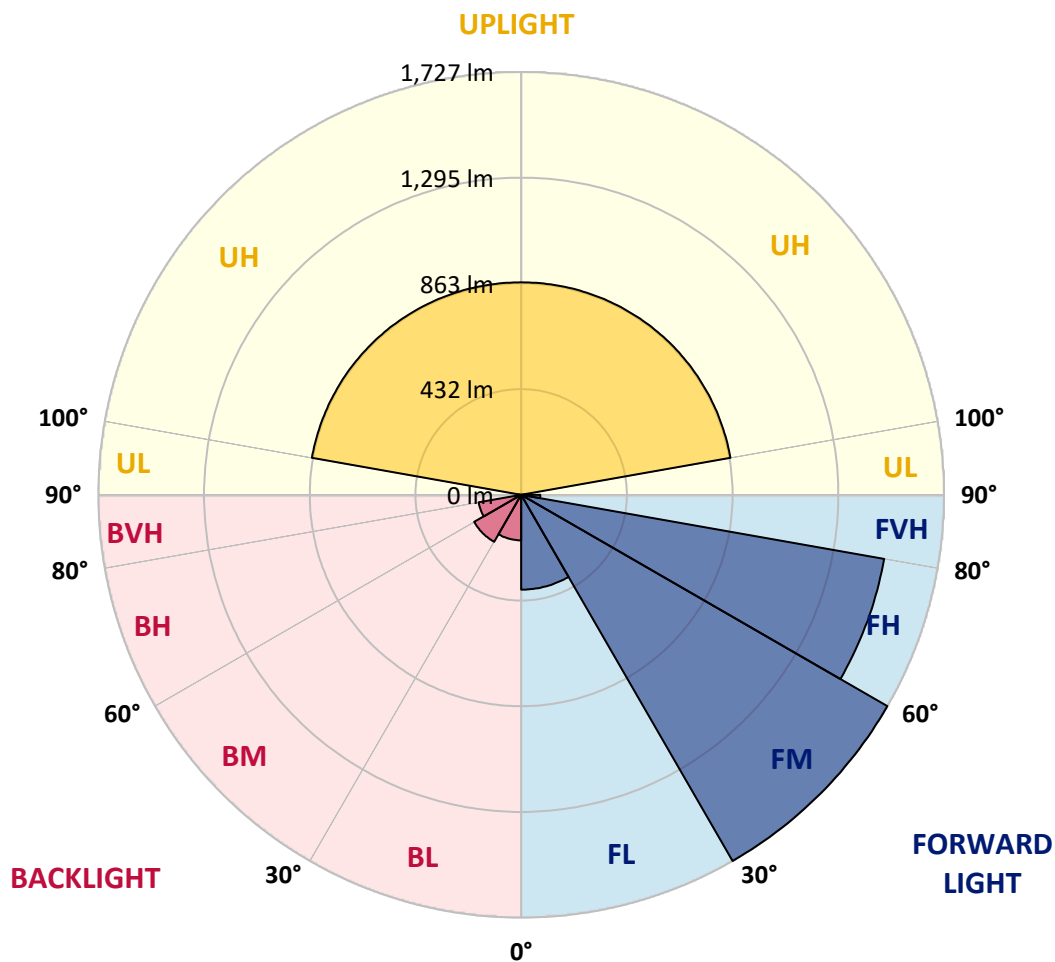
CATALOG NUMBER: IST-AF-800-LED-E1-SL3-7030-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.3	6.4			
FM (30°-60°)	1726.9	28.6			
FH (60°-80°)	1505.2	25.0			G1/1800
FVH (80°-90°)	78.0	1.3			G1/100
BL (0°-30°)	185.8	3.1	B1/500		
BM (30°-60°)	221.5	3.7	B1/1000		
BH (60°-80°)	176.2	2.9	B1/500		G1/500
BVH (80°-90°)	12.8	0.2			G1/100
UL (90°-100°)	11.1	0.2		U2/50	
UH (100°-180°)	867.8	14.4		U4/1000	

**BUG Rating: B1-U5-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°	
0°	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7
2.5°	1197.0	1193.0	1200.3	1197.7	1199.6	1189.8	1187.8	1185.8	1187.1	1185.1	1185.1	1185.1
5°	1168.7	1166.7	1175.3	1179.9	1183.8	1182.5	1181.8	1181.8	1182.5	1177.9	1177.9	1178.6
7.5°	1085.7	1084.4	1096.3	1104.8	1123.9	1135.1	1149.6	1150.2	1151.6	1149.6	1149.6	1153.5
10°	997.5	1001.4	1012.0	1025.8	1054.1	1071.2	1098.9	1104.2	1106.1	1106.8	1106.8	1107.4
12.5°	913.2	909.3	922.4	948.8	987.0	1014.6	1049.5	1052.1	1055.4	1060.0	1060.0	1064.7
15°	838.2	842.8	853.3	881.0	921.1	960.0	1005.4	1008.0	1014.6	1018.6	1018.6	1025.1
17.5°	786.8	786.8	798.7	824.3	861.9	911.2	968.5	973.1	978.4	983.7	983.7	990.9
20°	761.1	761.1	765.7	780.9	813.8	861.2	930.3	935.6	944.8	950.7	950.7	960.6
22.5°	759.1	758.5	757.8	761.1	780.9	817.7	889.5	896.8	904.7	913.9	913.9	922.4
25°	780.2	782.2	774.3	769.0	771.0	788.1	850.7	854.6	869.8	875.7	875.7	886.2
27.5°	810.5	813.8	807.2	799.3	787.5	776.3	817.7	824.3	834.2	844.1	844.1	857.3
30°	854.0	853.3	852.6	847.4	824.3	789.4	807.9	812.5	821.0	828.9	828.9	840.1
32.5°	900.7	906.0	909.9	907.3	883.6	824.3	821.7	825.6	833.5	838.2	838.2	845.4
35°	961.3	963.9	979.1	979.1	955.4	886.9	860.5	863.8	867.8	869.8	869.8	875.0
37.5°	1027.8	1037.0	1059.4	1072.6	1035.7	964.6	921.8	921.8	923.8	925.1	925.1	928.4
40°	1104.8	1118.0	1148.9	1173.9	1150.2	1061.4	1002.1	1008.0	1006.1	1003.4	1003.4	1010.7
42.5°	1194.4	1208.8	1246.4	1270.1	1256.3	1177.9	1110.1	1106.1	1112.1	1104.2	1104.2	1106.8
45°	1298.4	1309.6	1347.8	1372.8	1384.0	1320.8	1251.6	1243.7	1243.7	1226.6	1226.6	1233.9
47.5°	1391.9	1395.2	1432.0	1476.2	1512.4	1513.7	1416.2	1411.0	1398.5	1387.3	1387.3	1384.6
50°	1478.8	1488.7	1512.4	1560.4	1636.2	1702.0	1642.7	1626.3	1612.5	1571.0	1571.0	1583.5
52.5°	1629.6	1648.7	1663.8	1692.8	1782.3	1916.0	1989.1	1963.4	1960.1	1922.6	1922.6	1914.0
55°	1657.9	1659.9	1709.9	1877.1	2087.8	2184.0	2324.2	2323.5	2334.1	2322.2	2322.2	2311.0
57.5°	1524.9	1509.1	1592.7	1813.3	2236.6	2730.4	2687.6	2692.2	2678.4	2642.2	2642.2	2631.0
60°	1187.8	1200.9	1291.1	1572.3	2129.3	3083.3	3365.8	3282.2	3342.1	3247.9	3247.9	3197.2
62.5°	668.3	653.1	714.4	1010.0	1746.8	3101.8	4289.6	4298.8	4327.7	4275.1	4275.1	4151.3
65°	431.3	424.7	418.8	510.9	1046.9	2713.3	4800.5	4913.7	4981.5	5009.2	5009.2	5011.2
66°	370.7	365.4	358.2	418.1	729.5	2390.7	4767.6	4888.7	4996.7	5048.0	5048.0	5063.2
67.5°	315.4	307.5	306.2	346.3	507.6	1854.7	4453.5	4643.8	4739.3	4872.2	4872.2	4944.7
70°	241.0	237.0	248.9	298.9	389.8	873.1	3548.8	3797.1	3961.7	4065.7	4065.7	4132.9
72.5°	202.1	200.8	217.3	273.2	369.4	495.1	2484.2	2750.8	2922.7	3022.1	3022.1	3114.3
75°	158.0	159.3	181.1	260.7	367.4	431.3	1443.2	1697.4	1797.5	1954.2	1954.2	2074.0
77.5°	118.5	117.2	134.3	210.7	358.2	437.2	749.9	855.3	965.2	1044.9	1044.9	1073.9
80°	83.0	84.3	96.1	144.9	279.2	449.7	467.5	491.8	514.9	540.6	540.6	545.8
82.5°	55.3	56.0	71.1	99.4	193.6	429.3	436.5	425.3	407.6	385.2	385.2	360.8
85°	33.6	34.9	50.7	67.2	150.1	388.5	451.7	422.0	395.0	365.4	365.4	335.8
87.5°	17.1	19.1	30.3	39.5	88.9	191.6	470.1	448.4	411.5	366.1	366.1	333.2
90°	9.6	9.6	13.6	17.9	25.8	45.8	125.5	113.9	60.7	109.0	109.0	57.8
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0
95°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.1	7.2	7.3	7.3	7.4
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.8	11.6	11.4	11.4	11.2
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	28.7	28.4	28.1	28.1	27.8
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	49.7	49.4	49.1	49.1	48.8
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.8	71.6	71.4	71.4	71.2
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.9	94.8	94.7	94.7	94.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.1	120.2	120.3	120.4
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	148.2	148.4	148.6	148.8
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	179.3	179.6	179.9	180.2
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	211.4	211.8	212.2	212.6
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	246.4	246.8	247.2	247.6
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	279.4	279.8	280.2	280.6
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	313.2	313.4	313.6	313.8
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.1	345.2	345.3	345.4
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	377.4	377.8	378.2	378.6
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	411.5	412.0	412.5	413.0
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	443.5	444.0	444.5	445.0
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	473.2	473.4	473.6	473.8
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	500.2	500.4	500.6	500.8
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	527.6	528.2	528.8	529.4
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	556.6	557.2	557.8	558.4
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	580.5	581.0	581.5	582.0
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	597.3	597.6	597.9	598.2
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	611.3	611.6	611.9	612.2
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	626.5	627.0	627.5	628.0
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	644.4	644.8	645.2	645.6
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	658.6	659.2	659.8	660.4
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	667.4	667.8	668.2	668.6
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	672.5	673.0	673.5	674.0
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	678.6	679.2	679.8	680.4
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	686.3	686.6	686.9	687.2
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	689.3	689.6	689.9	690.2
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	690.5	691.0	691.5	692.0
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	694.5	695.0	695.5	696.0
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7
2.5°	1184.5	1185.8	1184.5	1182.5	1184.5	1182.5	1181.8	1181.2	1181.8	1180.5	1179.9
5°	1178.6	1179.9	1179.9	1175.9	1175.3	1177.9	1173.9	1175.3	1173.9	1172.6	1170.0
7.5°	1150.2	1150.9	1151.6	1148.9	1150.9	1150.9	1149.6	1149.6	1148.3	1148.9	1146.3
10°	1110.7	1113.4	1116.0	1114.7	1114.0	1120.0	1117.3	1119.3	1119.3	1117.3	1118.0
12.5°	1067.9	1072.6	1075.8	1075.8	1078.5	1085.1	1084.4	1085.7	1091.0	1091.0	1089.0
15°	1028.4	1033.0	1038.3	1042.3	1047.5	1052.1	1055.4	1060.7	1063.3	1063.3	1066.6
17.5°	997.5	1004.1	1010.0	1012.0	1019.2	1027.1	1029.1	1035.7	1039.6	1041.6	1045.6
20°	967.2	974.4	981.7	988.3	994.9	1004.1	1008.7	1012.6	1019.2	1023.2	1029.1
22.5°	931.7	942.8	952.1	960.0	971.2	979.1	988.3	994.9	1002.8	1008.7	1013.3
25°	898.1	913.2	925.7	933.6	948.8	960.0	971.2	981.0	990.9	999.5	1006.1
27.5°	867.1	884.2	899.4	911.9	928.4	946.1	957.3	973.8	987.0	998.8	1006.7
30°	852.0	866.5	882.3	896.8	913.2	935.6	954.0	975.1	991.6	1006.7	1018.6
32.5°	855.3	868.4	882.3	894.8	911.9	936.9	956.0	980.4	1004.7	1024.5	1039.6
35°	881.6	893.5	902.7	913.9	929.0	948.1	968.5	994.2	1024.5	1050.8	1070.6
37.5°	936.9	940.2	949.4	958.0	965.9	983.7	1002.8	1024.5	1059.4	1087.0	1114.7
40°	1005.4	1014.0	1022.5	1026.5	1035.7	1046.9	1055.4	1078.5	1109.4	1145.6	1175.9
42.5°	1107.4	1110.7	1112.1	1113.4	1116.7	1124.6	1137.1	1158.1	1188.4	1220.7	1254.3
45°	1222.0	1226.0	1229.9	1231.9	1227.3	1231.9	1245.1	1254.9	1284.6	1314.8	1357.6
47.5°	1380.7	1368.8	1362.9	1370.8	1366.9	1376.7	1382.7	1388.6	1424.1	1460.4	1496.6
50°	1584.1	1576.9	1567.7	1568.3	1575.6	1569.0	1572.9	1594.7	1606.5	1636.8	1684.9
52.5°	1909.4	1887.0	1852.1	1837.0	1845.5	1840.3	1842.2	1846.8	1838.9	1867.3	1908.1
55°	2311.0	2282.1	2259.0	2245.8	2197.1	2193.2	2160.9	2149.1	2123.4	2150.4	2141.2
57.5°	2597.4	2579.0	2567.1	2527.6	2505.3	2460.5	2447.3	2431.5	2396.0	2413.7	2429.5
60°	3150.5	3084.7	3062.3	2993.1	2970.1	2927.3	2872.7	2845.7	2827.2	2844.3	2833.8
62.5°	4073.6	3982.1	3964.3	3800.4	3760.2	3661.4	3558.7	3544.9	3487.0	3450.7	3442.2
65°	4975.0	4843.9	4745.8	4566.7	4445.6	4304.7	4148.0	4033.4	3915.6	3856.3	3778.0
66°	5042.1	4990.1	4891.3	4786.7	4610.2	4456.1	4278.4	4154.6	4022.2	3918.2	3851.1
67.5°	4927.6	4899.9	4865.0	4793.9	4683.3	4539.8	4371.2	4213.2	4053.8	3931.4	3824.1
70°	4165.1	4195.4	4234.9	4216.5	4153.3	4097.3	3948.5	3860.3	3740.4	3579.8	3513.9
72.5°	3143.9	3224.9	3197.2	3093.2	3044.5	3005.7	2951.7	2892.4	2720.6	2700.8	2623.1
75°	2022.6	1995.6	2013.4	1887.0	1800.8	1765.2	1636.8	1584.1	1455.1	1371.5	1307.6
77.5°	1066.0	1013.3	972.5	861.2	781.5	734.8	672.2	598.5	485.2	478.7	375.3
80°	494.5	454.3	417.4	378.6	339.7	288.4	250.2	204.1	180.4	154.7	144.2
82.5°	335.8	310.1	287.7	262.0	232.4	196.9	169.9	144.2	123.1	110.6	100.7
85°	304.2	276.5	251.5	219.3	188.3	158.7	129.7	107.3	87.6	76.4	69.8
87.5°	295.6	261.4	235.1	200.2	169.9	139.6	111.9	86.9	67.8	55.3	47.4
90°	45.5	48.4	37.4	36.3	20.7	24.1	20.2	15.6	16.2	14.3	14.9
92.5°	7.0	7.0	7.0	7.0	7.0	7.0	6.9	6.8	6.7	6.6	6.5
95°	7.5	7.6	7.7	7.8	7.9	8.0	7.9	7.8	7.7	7.6	7.5
97.5°	11.0	10.8	10.6	10.4	10.2	10.0	9.9	9.8	9.7	9.6	9.5
100°	27.5	27.2	26.9	26.6	26.3	26.0	25.7	25.4	25.1	24.8	24.5
102.5°	48.5	48.2	47.9	47.6	47.3	47.0	46.5	46.0	45.5	45.0	44.5
105°	71.0	70.8	70.6	70.4	70.2	70.0	69.5	69.0	68.5	68.0	67.5
107.5°	94.5	94.4	94.3	94.2	94.1	94.0	93.6	93.2	92.8	92.4	92.0



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CATALOG NUMBER: IST-AF-800-LED-E1-SL3-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	120.5	120.6	120.7	120.8	120.9	121.0	120.8	120.6	120.4	120.2	120.0
112.5°	149.0	149.2	149.4	149.6	149.8	150.0	149.9	149.8	149.7	149.6	149.5
115°	180.5	180.8	181.1	181.4	181.7	182.0	181.7	181.4	181.1	180.8	180.5
117.5°	213.0	213.4	213.8	214.2	214.6	215.0	214.5	214.0	213.5	213.0	212.5
120°	248.0	248.4	248.8	249.2	249.6	250.0	249.5	249.0	248.5	248.0	247.5
122.5°	281.0	281.4	281.8	282.2	282.6	283.0	282.5	282.0	281.5	281.0	280.5
125°	314.0	314.2	314.4	314.6	314.8	315.0	314.5	314.0	313.5	313.0	312.5
127.5°	345.5	345.6	345.7	345.8	345.9	346.0	346.0	346.0	346.0	346.0	346.0
130°	379.0	379.4	379.8	380.2	380.6	381.0	381.0	381.0	381.0	381.0	381.0
132.5°	413.5	414.0	414.5	415.0	415.5	416.0	415.8	415.6	415.4	415.2	415.0
135°	445.5	446.0	446.5	447.0	447.5	448.0	447.9	447.8	447.7	447.6	447.5
137.5°	474.0	474.2	474.4	474.6	474.8	475.0	475.1	475.2	475.3	475.4	475.5
140°	501.0	501.2	501.4	501.6	501.8	502.0	502.2	502.4	502.6	502.8	503.0
142.5°	530.0	530.6	531.2	531.8	532.4	533.0	533.0	533.0	533.0	533.0	533.0
145°	559.0	559.6	560.2	560.8	561.4	562.0	561.9	561.8	561.7	561.6	561.5
147.5°	582.5	583.0	583.5	584.0	584.5	585.0	585.1	585.2	585.3	585.4	585.5
150°	598.5	598.8	599.1	599.4	599.7	600.0	600.3	600.6	600.9	601.2	601.5
152.5°	612.5	612.8	613.1	613.4	613.7	614.0	614.4	614.8	615.2	615.6	616.0
155°	628.5	629.0	629.5	630.0	630.5	631.0	631.5	632.0	632.5	633.0	633.5
157.5°	646.0	646.4	646.8	647.2	647.6	648.0	648.2	648.4	648.6	648.8	649.0
160°	661.0	661.6	662.2	662.8	663.4	664.0	663.7	663.4	663.1	662.8	662.5
162.5°	669.0	669.4	669.8	670.2	670.6	671.0	670.9	670.8	670.7	670.6	670.5
165°	674.5	675.0	675.5	676.0	676.5	677.0	677.3	677.6	677.9	678.2	678.5
167.5°	681.0	681.6	682.2	682.8	683.4	684.0	684.4	684.8	685.2	685.6	686.0
170°	687.5	687.8	688.1	688.4	688.7	689.0	689.5	690.0	690.5	691.0	691.5
172.5°	690.5	690.8	691.1	691.4	691.7	692.0	692.2	692.4	692.6	692.8	693.0
175°	692.5	693.0	693.5	694.0	694.5	695.0	695.1	695.2	695.3	695.4	695.5
177.5°	696.5	697.0	697.5	698.0	698.5	699.0	699.2	699.4	699.6	699.8	700.0
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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CATALOG NUMBER: IST-AF-800-LED-E1-SL3-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7
2.5°	1178.6	1176.6	1178.6	1177.9	1175.3	1175.9	1176.6	1173.9	1172.6	1172.6	1172.0
5°	1168.0	1166.7	1168.0	1167.4	1163.4	1162.8	1162.8	1160.8	1158.1	1156.2	1154.9
7.5°	1143.0	1144.3	1143.7	1141.7	1139.7	1139.7	1137.7	1133.1	1130.5	1127.9	1125.2
10°	1114.7	1114.7	1115.4	1114.7	1111.4	1110.1	1107.4	1104.8	1105.5	1098.9	1093.6
12.5°	1089.7	1089.7	1089.0	1087.7	1085.7	1085.1	1085.1	1077.2	1075.2	1073.2	1067.3
15°	1066.0	1067.3	1067.3	1067.3	1064.0	1064.0	1060.7	1055.4	1055.4	1049.5	1043.6
17.5°	1047.5	1049.5	1048.9	1049.5	1050.2	1046.2	1040.3	1037.0	1033.0	1029.8	1021.9
20°	1031.7	1033.0	1033.7	1033.7	1031.7	1029.1	1023.8	1018.6	1015.9	1009.3	999.5
22.5°	1017.2	1019.9	1020.5	1020.5	1017.9	1015.9	1010.7	1002.8	997.5	989.6	980.4
25°	1011.3	1014.6	1012.6	1014.0	1011.3	1006.7	999.5	992.9	985.0	975.1	965.2
27.5°	1013.3	1017.9	1016.6	1015.9	1012.6	1009.3	1000.1	992.2	983.0	971.2	958.6
30°	1025.1	1033.0	1029.8	1027.1	1026.5	1018.6	1010.0	998.8	988.3	974.4	960.0
32.5°	1047.5	1051.5	1052.1	1050.2	1046.9	1040.3	1028.4	1014.0	1002.1	985.6	968.5
35°	1084.4	1088.4	1087.0	1087.0	1083.7	1073.2	1058.7	1044.2	1027.8	1009.3	991.6
37.5°	1135.8	1143.0	1141.7	1139.1	1135.1	1122.6	1111.4	1093.6	1075.2	1050.8	1030.4
40°	1200.3	1211.5	1221.4	1219.4	1210.2	1199.0	1188.4	1168.0	1149.6	1122.6	1100.2
42.5°	1287.2	1302.3	1314.8	1324.1	1320.1	1305.6	1287.2	1278.6	1252.3	1224.6	1201.6
45°	1398.5	1430.1	1441.3	1452.5	1452.5	1443.2	1439.3	1422.2	1394.5	1357.6	1335.9
47.5°	1545.3	1587.4	1599.9	1619.0	1630.2	1620.4	1613.1	1584.1	1565.7	1515.0	1509.7
50°	1723.7	1765.9	1800.1	1822.5	1819.2	1827.8	1810.6	1794.2	1768.5	1727.0	1712.5
52.5°	1951.5	1985.1	2016.1	2029.2	2043.1	2041.1	2037.1	2025.9	1993.7	1971.3	1934.4
55°	2185.3	2212.9	2250.5	2272.2	2290.0	2286.7	2271.5	2244.5	2250.5	2203.7	2183.3
57.5°	2451.3	2481.6	2522.4	2542.8	2550.7	2590.9	2581.0	2577.7	2566.5	2550.0	2529.0
60°	2908.9	2917.4	2951.0	3002.4	3065.6	3053.1	3068.9	3079.4	3087.3	3050.4	3047.8
62.5°	3454.0	3464.6	3493.5	3504.1	3513.3	3514.6	3493.5	3493.5	3457.3	3409.9	3373.0
65°	3751.6	3729.9	3710.2	3699.0	3674.6	3652.9	3621.3	3578.5	3517.2	3444.2	3378.3
66°	3794.4	3750.3	3724.6	3696.3	3657.5	3617.3	3579.8	3521.2	3449.4	3362.5	3275.6
67.5°	3752.9	3692.4	3632.5	3591.0	3537.0	3464.6	3398.7	3330.2	3262.4	3143.3	3062.3
70°	3374.4	3301.9	3236.1	3145.2	3059.6	2988.5	2875.3	2756.1	2658.0	2532.9	2453.2
72.5°	2505.9	2420.3	2334.7	2207.0	2082.6	2064.1	1921.9	1781.7	1706.6	1605.9	1524.9
75°	1237.8	1129.8	976.4	908.0	808.5	759.8	732.8	631.4	607.1	507.6	506.3
77.5°	349.6	300.2	266.7	232.4	217.9	207.4	171.2	163.9	148.8	146.2	137.6
80°	132.3	125.1	121.8	118.5	115.2	113.2	111.9	106.7	104.0	100.1	98.1
82.5°	95.5	92.8	86.9	84.9	82.3	78.4	77.7	74.4	72.4	68.5	67.2
85°	64.5	61.2	57.9	54.6	53.3	52.7	50.7	49.4	48.1	46.1	45.4
87.5°	43.5	40.2	36.2	34.9	34.2	34.9	35.6	34.2	33.6	32.3	31.6
90°	14.3	16.2	15.6	15.6	16.9	15.4	15.2	15.6	14.8	14.6	13.7
92.5°	6.4	6.3	6.2	6.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.4	7.3	7.2	7.1	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4
100°	24.2	23.9	23.6	23.3	23.0	22.6	22.2	21.8	21.4	21.0	20.6
102.5°	44.0	43.5	43.0	42.5	42.0	41.7	41.4	41.1	40.8	40.5	40.2
105°	67.0	66.5	66.0	65.5	65.0	64.6	64.2	63.8	63.4	63.0	62.6
107.5°	91.6	91.2	90.8	90.4	90.0	89.7	89.4	89.1	88.8	88.5	88.2



REPORT NUMBER: P226949  
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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	119.8	119.6	119.4	119.2	119.0	118.7	118.4	118.1	117.8	117.5	117.2	0°
112.5°	149.4	149.3	149.2	149.1	149.0	148.8	148.6	148.4	148.2	148.0	147.8	2.5°
115°	180.2	179.9	179.6	179.3	179.0	178.8	178.6	178.4	178.2	178.0	177.8	5°
117.5°	212.0	211.5	211.0	210.5	210.0	209.8	209.6	209.4	209.2	209.0	208.8	7.5°
120°	247.0	246.5	246.0	245.5	245.0	244.8	244.6	244.4	244.2	244.0	243.8	10°
122.5°	280.0	279.5	279.0	278.5	278.0	277.8	277.6	277.4	277.2	277.0	276.8	12.5°
125°	312.0	311.5	311.0	310.5	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°
127.5°	346.0	346.0	346.0	346.0	346.0	345.9	345.8	345.7	345.6	345.5	345.4	17.5°
130°	381.0	381.0	381.0	381.0	381.0	380.8	380.6	380.4	380.2	380.0	379.8	20°
132.5°	414.8	414.6	414.4	414.2	414.0	414.0	414.0	414.0	414.0	414.0	414.0	22.5°
135°	447.4	447.3	447.2	447.1	447.0	447.3	447.6	447.9	448.2	448.5	448.8	25°
137.5°	475.6	475.7	475.8	475.9	476.0	476.5	477.0	477.5	478.0	478.5	479.0	27.5°
140°	503.2	503.4	503.6	503.8	504.0	504.5	505.0	505.5	506.0	506.5	507.0	30°
142.5°	533.0	533.0	533.0	533.0	533.0	533.1	533.2	533.3	533.4	533.5	533.6	32.5°
145°	561.4	561.3	561.2	561.1	561.0	560.7	560.4	560.1	559.8	559.5	559.2	35°
147.5°	585.6	585.7	585.8	585.9	586.0	585.7	585.4	585.1	584.8	584.5	584.2	37.5°
150°	601.8	602.1	602.4	602.7	603.0	603.3	603.6	603.9	604.2	604.5	604.8	40°
152.5°	616.4	616.8	617.2	617.6	618.0	618.5	619.0	619.5	620.0	620.5	621.0	42.5°
155°	634.0	634.5	635.0	635.5	636.0	636.2	636.4	636.6	636.8	637.0	637.2	45°
157.5°	649.2	649.4	649.6	649.8	650.0	650.0	650.0	650.0	650.0	650.0	650.0	47.5°
160°	662.2	661.9	661.6	661.3	661.0	660.9	660.8	660.7	660.6	660.5	660.4	50°
162.5°	670.4	670.3	670.2	670.1	670.0	669.8	669.6	669.4	669.2	669.0	668.8	52.5°
165°	678.8	679.1	679.4	679.7	680.0	679.8	679.6	679.4	679.2	679.0	678.8	55°
167.5°	686.4	686.8	687.2	687.6	688.0	688.0	688.0	688.0	688.0	688.0	688.0	57.5°
170°	692.0	692.5	693.0	693.5	694.0	694.2	694.4	694.6	694.8	695.0	695.2	60°
172.5°	693.2	693.4	693.6	693.8	694.0	694.2	694.4	694.6	694.8	695.0	695.2	62.5°
175°	695.6	695.7	695.8	695.9	696.0	695.8	695.6	695.4	695.2	695.0	694.8	65°
177.5°	700.2	700.4	700.6	700.8	701.0	700.7	700.4	700.1	699.8	699.5	699.2	66°
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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 NUMBER: IST-AF-800-LED-E1-SL3-7030-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	82°	
1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	110°	116.9
1170.7	1168.7	1169.3	1166.7	1166.0	1167.4	1168.0	1168.0	1166.0	1154.2	1140.4	112.5°	147.6
1153.5	1149.6	1148.9	1147.0	1143.7	1147.6	1145.6	1142.3	1138.4	1124.6	1097.6	115°	177.6
1121.9	1119.3	1116.0	1113.4	1111.4	1110.1	1109.4	1106.1	1098.9	1073.2	1027.8	117.5°	208.6
1091.6	1088.4	1084.4	1078.5	1075.8	1071.9	1071.9	1064.0	1058.7	1026.5	959.3	120°	243.6
1062.0	1056.1	1054.1	1050.2	1042.9	1039.6	1035.0	1027.1	1019.2	980.4	892.1	122.5°	276.6
1039.6	1033.7	1025.1	1022.5	1014.6	1007.4	1001.4	990.9	982.4	931.0	821.7	125°	310.0
1015.3	1010.7	1001.4	995.5	987.0	978.4	968.5	955.4	949.4	884.2	754.5	127.5°	345.3
995.5	985.0	974.4	969.2	958.6	948.8	938.9	923.1	911.2	838.2	683.4	130°	379.6
972.5	963.3	952.1	942.8	928.4	917.2	906.0	889.5	875.0	791.4	611.7	132.5°	414.0
956.7	943.5	931.7	921.1	904.7	891.5	875.7	857.9	843.4	746.6	532.7	135°	449.1
947.5	934.3	919.1	906.0	886.9	871.7	854.6	834.9	816.4	710.4	458.3	137.5°	479.5
944.8	929.0	913.2	896.8	877.0	857.9	837.5	817.7	794.0	675.5	377.3	140°	507.5
952.7	933.6	915.9	896.1	873.1	851.3	830.9	805.2	781.5	645.2	297.6	142.5°	533.7
974.4	951.4	931.0	909.3	882.9	859.2	834.9	805.9	779.6	624.2	227.8	145°	558.9
1008.7	987.0	963.3	941.5	911.2	884.9	857.9	827.0	795.4	615.6	171.8	147.5°	583.9
1077.8	1048.9	1024.5	1001.4	966.5	939.6	908.6	871.1	835.5	623.5	143.5	150°	605.1
1174.6	1138.4	1116.0	1095.6	1052.1	1022.5	987.0	944.2	904.0	645.9	126.4	152.5°	621.5
1308.3	1280.6	1240.4	1208.8	1164.7	1131.8	1092.3	1040.9	996.2	677.5	117.9	155°	637.4
1475.5	1439.3	1399.8	1367.5	1319.5	1262.2	1220.7	1158.8	1108.1	726.9	113.9	157.5°	650.0
1680.3	1636.8	1583.5	1556.5	1490.0	1445.2	1389.9	1323.4	1258.9	803.3	115.9	160°	660.3
1902.8	1856.1	1814.6	1763.2	1702.7	1652.6	1599.9	1529.5	1448.5	948.1	123.8	162.5°	668.6
2137.9	2107.6	2068.1	2001.6	1968.7	1905.4	1838.3	1760.6	1702.0	1136.4	142.9	165°	678.6
2480.2	2447.3	2442.7	2377.5	2327.5	2270.2	2217.5	2153.0	2083.9	1470.9	187.6	167.5°	688.0
3007.0	2972.7	2933.9	2883.2	2823.9	2752.8	2687.6	2600.7	2523.7	1806.0	208.7	170°	695.4
3319.1	3255.8	3186.1	3109.0	3022.8	2934.5	2847.0	2735.7	2623.8	1826.4	188.3	172.5°	695.4
3292.7	3214.4	3125.5	3020.8	2929.9	2821.3	2727.1	2583.6	2481.6	1626.3	153.4	175°	694.6
3195.3	3088.0	3004.3	2908.2	2794.3	2696.9	2597.4	2455.9	2339.3	1491.3	140.2	177.5°	698.9
2945.7	2854.2	2738.3	2646.2	2561.9	2445.3	2351.8	2219.5	2139.2	1293.1	125.8	180°	700.0
2354.5	2228.1	2130.0	2058.2	1962.7	1857.4	1774.4	1663.1	1592.0	855.9	108.6		
1371.5	1339.9	1229.9	1168.0	1110.1	1024.5	958.6	905.3	811.8	414.8	96.1		
422.7	393.1	389.1	330.5	349.6	298.9	291.0	264.7	264.7	159.3	75.7		
135.0	132.3	127.1	119.8	117.2	117.2	113.9	113.2	108.0	85.6	56.6		
95.5	93.5	91.5	89.5	88.2	88.9	86.3	84.9	83.6	61.9	44.8		
65.8	63.9	59.9	59.9	58.6	57.9	58.6	56.0	55.3	43.5	37.5		
44.8	44.1	43.5	42.8	42.1	41.5	40.8	38.8	37.5	30.3	26.3		
29.6	25.0	24.4	21.1	20.4	19.8	18.4	19.8	21.7	21.7	17.1		
14.2	13.3	13.8	13.6	12.3	12.9	12.9	11.6	11.6	13.6	14.9		
6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0		
7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0		
8.3	8.2	8.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.0		
20.2	19.8	19.4	19.0	19.0	19.0	19.0	19.0	19.0	19.0	23.0		
39.9	39.6	39.3	39.0	38.8	38.6	38.4	38.2	38.0	39.0	42.0		
62.2	61.8	61.4	61.0	61.0	61.0	61.0	61.0	61.0	61.0	65.0		
87.9	87.6	87.3	87.0	86.8	86.6	86.4	86.2	86.0	87.0	90.0		

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REPORT NUMBER: P226949  
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**TION (continued):**

**CANDELA DISTRIBUTION (con**

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
116.6	116.3	116.0	116.2	116.4	116.6	116.8	117.0	116.0	119.0	0°	1166.7	1166.7
147.4	147.2	147.0	147.0	147.0	147.0	147.0	147.0	147.0	149.0	2.5°	1128.5	1118.0
177.4	177.2	177.0	177.2	177.4	177.6	177.8	178.0	177.0	179.0	5°	1068.6	1044.9
208.4	208.2	208.0	208.2	208.4	208.6	208.8	209.0	208.0	210.0	7.5°	987.6	941.5
243.4	243.2	243.0	243.0	243.0	243.0	243.0	243.0	243.0	245.0	10°	894.8	828.3
276.4	276.2	276.0	276.2	276.4	276.6	276.8	277.0	276.0	278.0	12.5°	798.7	713.7
310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°	709.1	596.5
345.2	345.1	345.0	345.4	345.8	346.2	346.6	347.0	345.0	346.0	17.5°	615.0	476.0
379.4	379.2	379.0	379.2	379.4	379.6	379.8	380.0	379.0	381.0	20°	524.8	359.5
414.0	414.0	414.0	414.2	414.4	414.6	414.8	415.0	414.0	414.0	22.5°	422.7	252.2
449.4	449.7	450.0	450.2	450.4	450.6	450.8	451.0	450.0	447.0	25°	310.1	183.0
480.0	480.5	481.0	481.2	481.4	481.6	481.8	482.0	481.0	476.0	27.5°	221.2	146.2
508.0	508.5	509.0	509.4	509.8	510.2	510.6	511.0	509.0	504.0	30°	165.3	123.1
533.8	533.9	534.0	534.4	534.8	535.2	535.6	536.0	534.0	533.0	32.5°	132.3	106.7
558.6	558.3	558.0	558.4	558.8	559.2	559.6	560.0	558.0	561.0	35°	112.6	96.8
583.6	583.3	583.0	583.4	583.8	584.2	584.6	585.0	583.0	586.0	37.5°	100.7	90.2
605.4	605.7	606.0	606.8	607.6	608.4	609.2	610.0	606.0	603.0	40°	94.2	86.9
622.0	622.5	623.0	624.0	625.0	626.0	627.0	628.0	623.0	618.0	42.5°	90.2	83.6
637.6	637.8	638.0	638.6	639.2	639.8	640.4	641.0	638.0	636.0	45°	88.2	81.6
650.0	650.0	650.0	651.0	652.0	653.0	654.0	655.0	650.0	650.0	47.5°	86.9	79.0
660.2	660.1	660.0	661.2	662.4	663.6	664.8	666.0	660.0	661.0	50°	85.6	79.0
668.4	668.2	668.0	669.2	670.4	671.6	672.8	674.0	668.0	670.0	52.5°	86.3	80.3
678.4	678.2	678.0	678.8	679.6	680.4	681.2	682.0	678.0	680.0	55°	89.5	80.3
688.0	688.0	688.0	689.2	690.4	691.6	692.8	694.0	688.0	688.0	57.5°	94.8	80.3
695.6	695.8	696.0	697.0	698.0	699.0	700.0	701.0	696.0	694.0	60°	98.8	81.6
695.6	695.8	696.0	697.0	698.0	699.0	700.0	701.0	696.0	694.0	62.5°	100.1	84.3
694.4	694.2	694.0	695.0	696.0	697.0	698.0	699.0	694.0	696.0	65°	98.8	85.6
698.6	698.3	698.0	698.8	699.6	700.4	701.2	702.0	698.0	701.0	66°	97.4	85.6
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	95.5	84.3
										70°	90.9	79.0
										72.5°	81.6	71.1
										75°	69.8	57.3
										77.5°	56.6	46.1
										80°	42.1	34.9
										82.5°	30.9	27.0
										85°	21.7	19.1
										87.5°	13.2	11.9
										90°	12.3	10.3
										92.5°	7.0	7.0
										95°	8.0	7.0
										97.5°	10.0	12.0
										100°	26.0	29.0
										102.5°	47.0	50.0
										105°	70.0	72.0
										107.5°	94.0	95.0



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**tinued):**

135°	145°	155°	165°	175°	180°
1166.7	1166.7	1166.7	1166.7	1166.7	1166.7
1110.7	1110.1	1093.6	1090.3	1079.1	1085.1
1016.6	1005.4	975.8	969.8	957.3	954.0
904.0	873.1	849.4	823.0	798.0	810.5
772.3	720.3	668.3	634.1	620.2	615.6
647.2	553.7	488.5	421.4	397.7	406.2
495.8	389.1	302.2	263.4	241.0	237.0
349.6	249.5	209.4	199.5	194.9	194.9
237.0	190.3	175.1	170.5	170.5	171.2
180.4	160.0	153.4	154.1	156.7	157.4
149.5	141.6	138.3	142.9	148.1	148.8
129.0	127.1	127.7	133.7	138.9	139.6
113.2	115.2	117.9	123.1	127.7	129.0
102.1	105.3	107.3	110.6	113.2	113.9
94.2	98.1	97.4	99.4	101.4	102.1
89.5	91.5	89.5	90.9	90.9	92.2
85.6	86.3	83.0	83.6	84.9	84.9
81.6	81.0	77.7	79.0	81.0	81.6
77.7	76.4	73.7	76.4	79.7	80.3
74.4	73.1	71.8	75.1	79.0	79.7
73.1	71.8	70.5	75.1	79.0	79.7
73.1	71.8	70.5	73.7	77.7	78.4
73.7	72.4	69.8	73.1	75.7	76.4
74.4	73.1	68.5	70.5	71.8	72.4
74.4	71.8	67.2	67.8	67.8	68.5
73.1	69.8	64.5	64.5	63.9	63.9
73.1	67.2	61.9	60.6	59.3	59.3
72.4	66.5	61.2	59.3	57.3	57.3
71.1	65.2	59.9	57.3	55.3	55.3
66.5	62.5	56.6	54.0	52.0	51.4
59.3	57.3	52.7	50.7	48.7	48.1
50.0	50.7	48.1	46.7	44.8	44.1
42.1	43.5	42.1	41.5	40.2	39.5
33.6	36.2	34.9	34.9	35.6	34.2
25.7	29.0	27.7	29.0	30.3	28.3
17.8	21.1	21.1	21.7	22.4	21.1
11.2	13.8	13.2	13.8	13.8	13.2
9.6	12.6	10.6	11.0	8.3	7.6
6.0	6.0	6.0	5.0	4.0	4.0
7.0	7.0	7.0	6.0	5.0	5.0
9.0	9.0	8.0	8.0	7.0	7.0
21.0	12.0	10.0	9.0	8.0	8.0
40.0	27.0	18.0	13.0	11.0	11.0
63.0	48.0	36.0	27.0	22.0	21.0
88.0	73.0	58.0	49.0	42.0	41.0

**CANDELA DISTRIBUTION (continued):**

	115°	125°	135°
110°	121.0	120.0	114.0
112.5°	150.0	148.0	143.0
115°	182.0	179.0	174.0
117.5°	215.0	211.0	205.0
120°	250.0	246.0	243.0
122.5°	283.0	279.0	277.0
125°	315.0	313.0	310.0
127.5°	346.0	345.0	340.0
130°	381.0	377.0	372.0
132.5°	416.0	411.0	405.0
135°	448.0	443.0	437.0
137.5°	475.0	473.0	468.0
140°	502.0	500.0	497.0
142.5°	533.0	527.0	525.0
145°	562.0	556.0	551.0
147.5°	585.0	580.0	575.0
150°	600.0	597.0	593.0
152.5°	614.0	611.0	610.0
155°	631.0	626.0	628.0
157.5°	648.0	644.0	645.0
160°	664.0	658.0	655.0
162.5°	671.0	667.0	663.0
165°	677.0	672.0	673.0
167.5°	684.0	678.0	685.0
170°	689.0	686.0	691.0
172.5°	692.0	689.0	690.0
175°	695.0	690.0	690.0
177.5°	699.0	694.0	695.0
180°	700.0	700.0	700.0



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145°	155°	165°	175°	180°
102.0	87.0	74.0	68.0	66.0
134.0	121.0	106.0	99.0	99.0
168.0	159.0	147.0	139.0	140.0
202.0	197.0	189.0	184.0	184.0
237.0	233.0	226.0	223.0	225.0
271.0	267.0	261.0	260.0	263.0
305.0	299.0	296.0	294.0	298.0
339.0	333.0	329.0	329.0	330.0
370.0	366.0	362.0	361.0	363.0
404.0	401.0	393.0	394.0	396.0
435.0	432.0	426.0	426.0	429.0
464.0	460.0	459.0	457.0	460.0
491.0	489.0	487.0	485.0	488.0
521.0	518.0	517.0	515.0	518.0
550.0	547.0	544.0	546.0	550.0
574.0	574.0	571.0	572.0	575.0
593.0	593.0	593.0	592.0	595.0
610.0	609.0	608.0	608.0	611.0
630.0	627.0	625.0	625.0	629.0
646.0	644.0	643.0	643.0	646.0
655.0	656.0	659.0	660.0	663.0
661.0	665.0	669.0	669.0	673.0
673.0	676.0	676.0	678.0	681.0
688.0	686.0	684.0	687.0	690.0
693.0	692.0	692.0	695.0	698.0
690.0	693.0	695.0	697.0	699.0
691.0	695.0	697.0	698.0	700.0
697.0	699.0	700.0	705.0	707.0
700.0	700.0	700.0	700.0	700.0

(END OF REPORT)