

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: P226844

Luminaire Tested: **IST-AF-1000-LED-E1-SL2-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-1000-LED-E1-SL2-7030-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II 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: 6915.6 lumens
Efficiency: N/A
Efficacy: 97.0 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): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

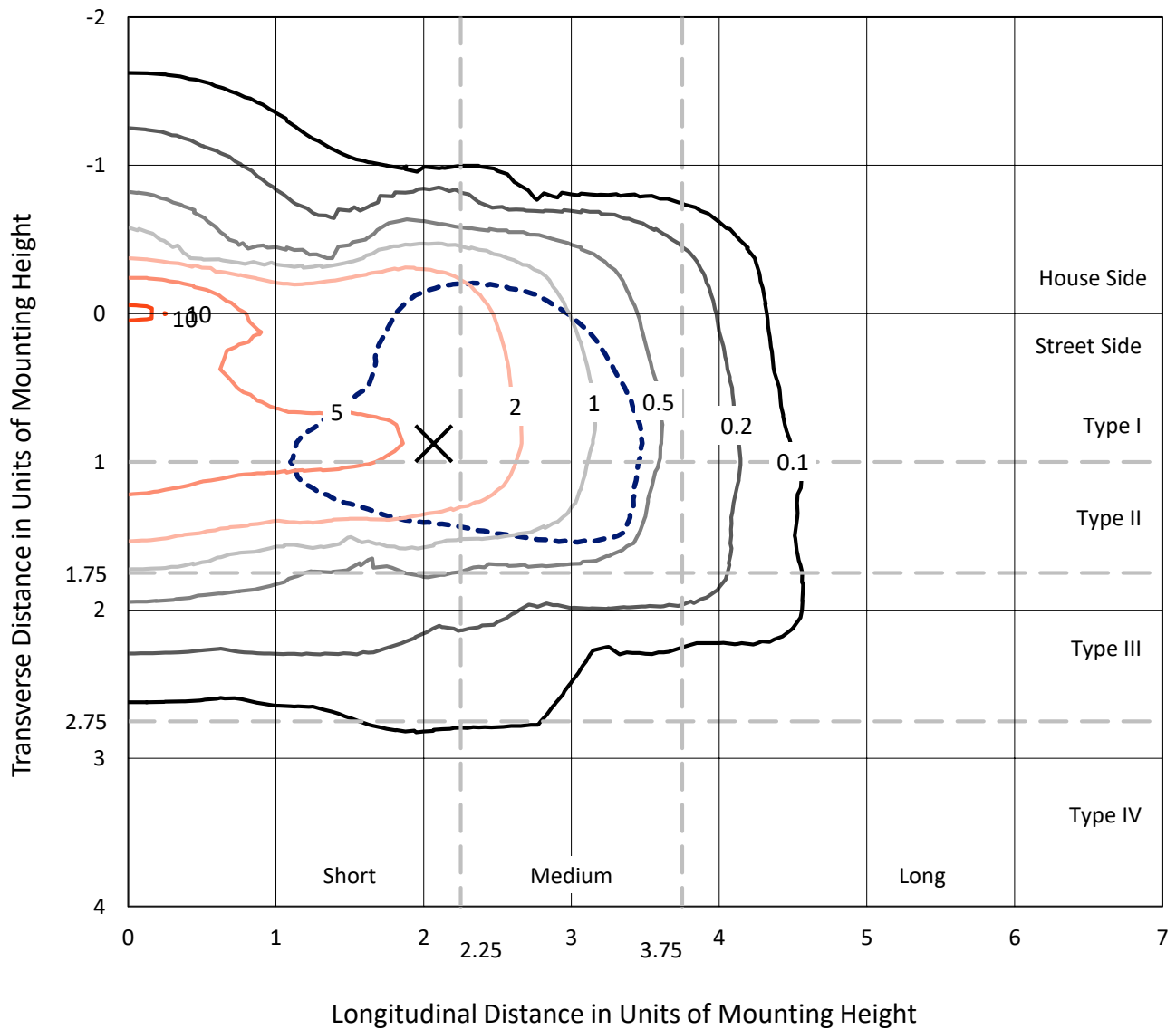


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

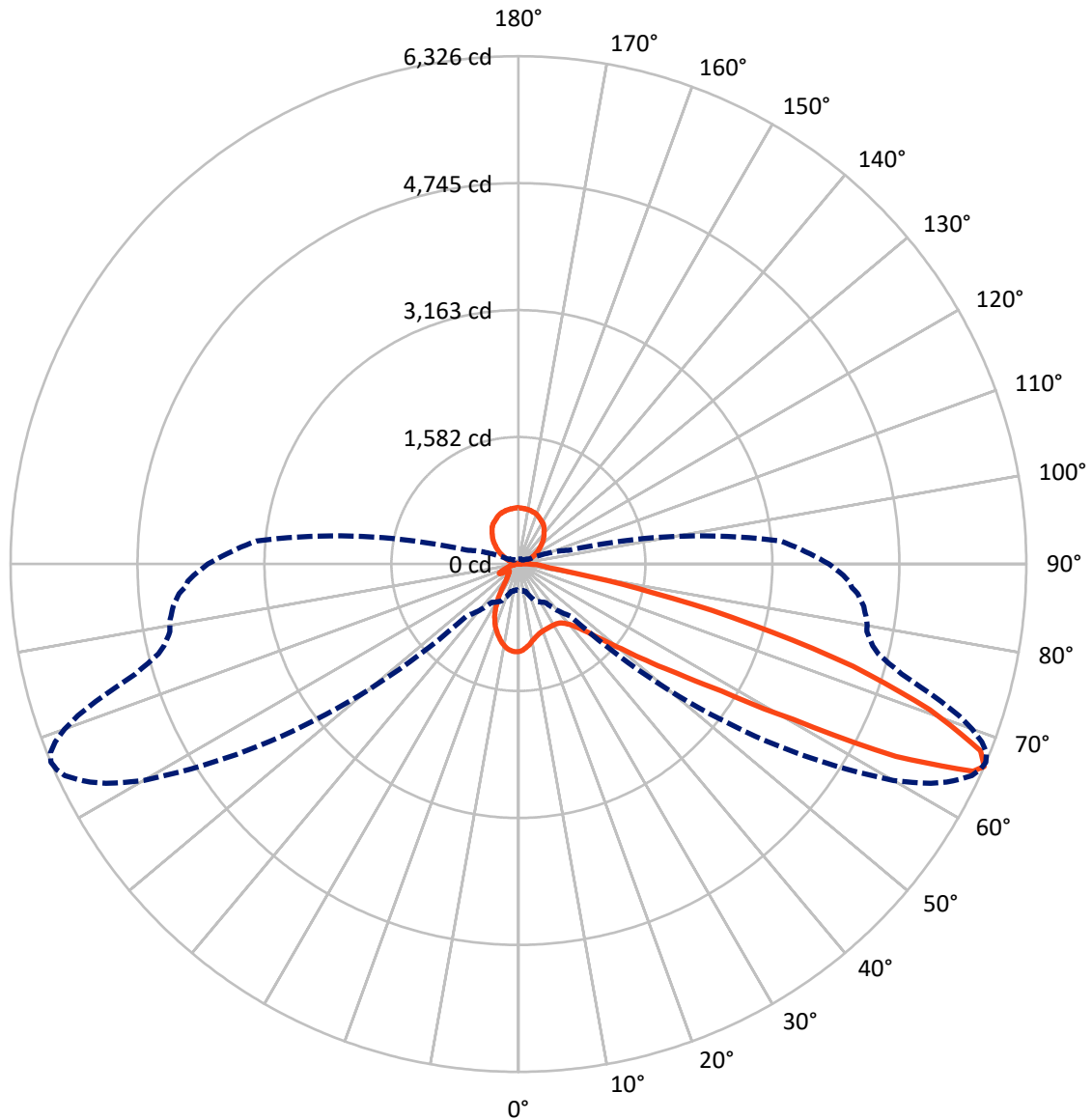


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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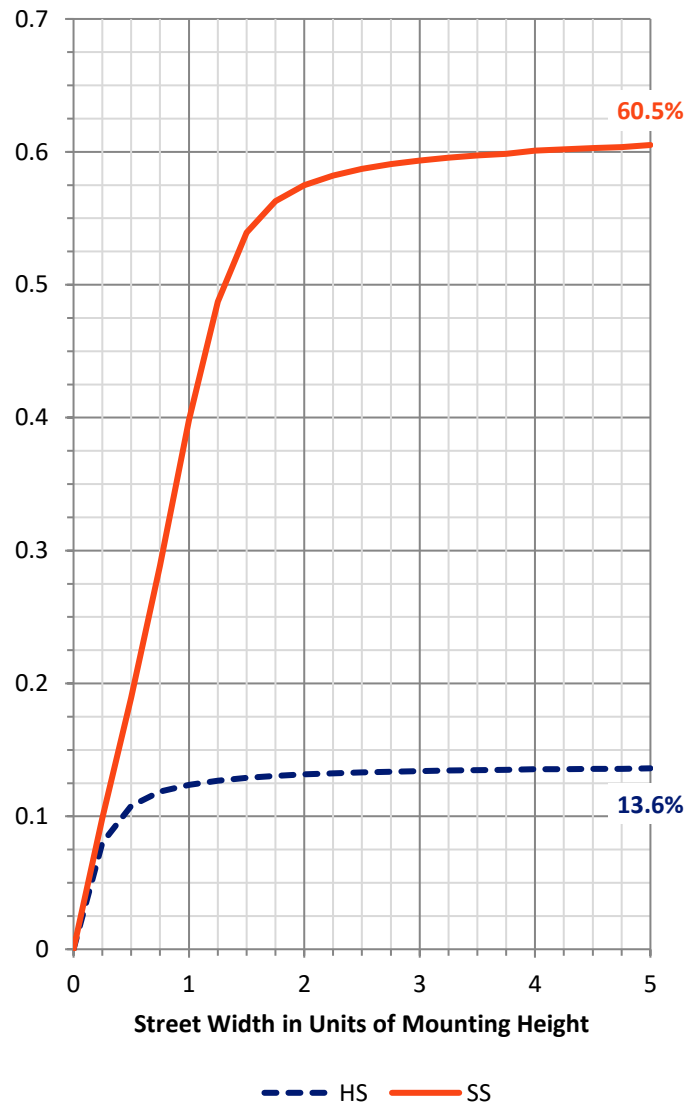
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	956.8	868.0	1824.8
	% Fixture	13.8	12.6	26.4
Street Side	Lumens	4221.7	869.1	5090.8
	% Fixture	61.0	12.6	73.6
Total	Lumens	5178.5	1737.0	6915.6
	% Fixture	74.9	25.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	1.4
10°-20°	225.0	3.3
20°-30°	308.5	4.5
30°-40°	440.8	6.4
40°-50°	714.7	10.3
50°-60°	1132.5	16.4
60°-70°	1435.1	20.8
70°-80°	713.4	10.3
80°-90°	114.0	1.6
90°-100°	11.1	0.2
100°-110°	57.4	0.8
110°-120°	166.1	2.4
120°-130°	273.2	3.9
130°-140°	336.8	4.9
140°-150°	344.6	5.0
150°-160°	290.3	4.2
160°-170°	191.2	2.8
170°-180°	66.3	1.0
0°-90°	5178.5	74.9
0°-180°	6915.6	100.0



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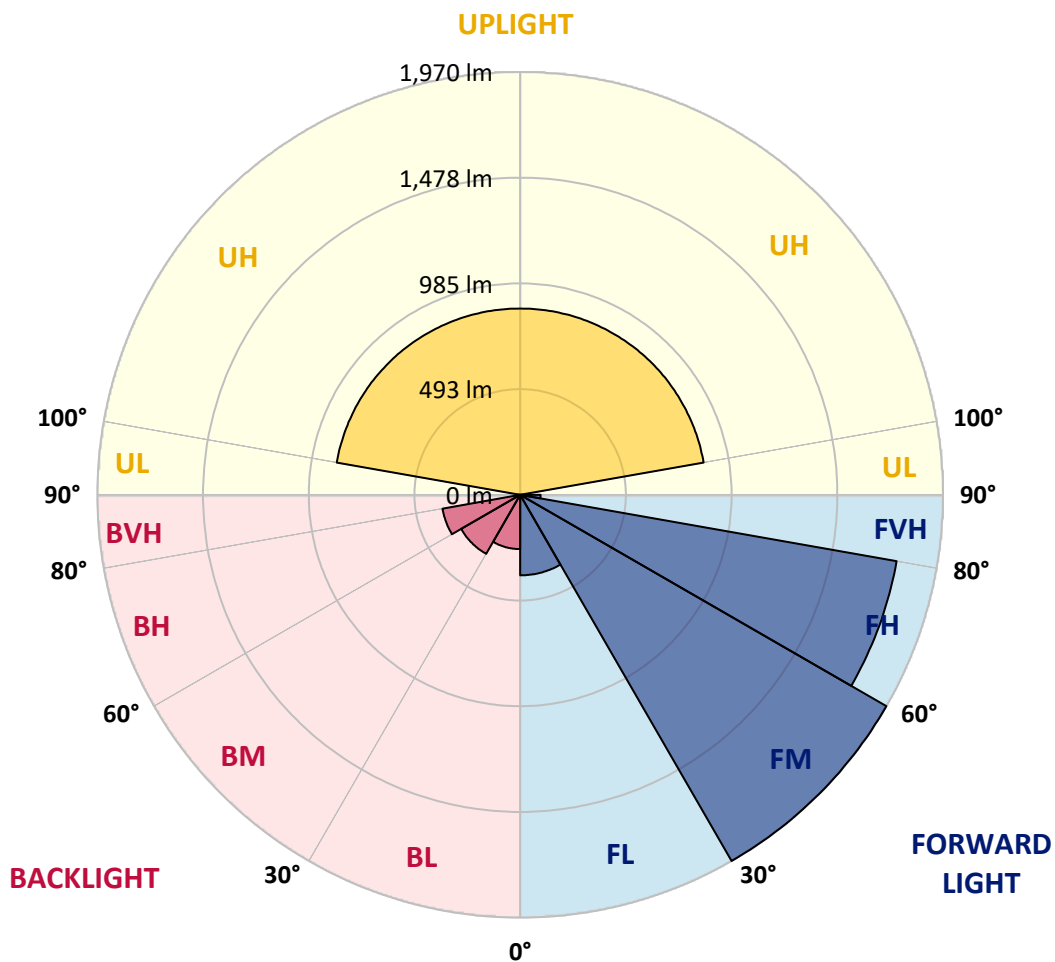
CATALOG NUMBER: IST-AF-1000-LED-E1-SL2-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	375.2	5.4			
FM	(30°-60°)	1970.3	28.5			
FH	(60°-80°)	1780.9	25.8			G1/1800
FVH	(80°-90°)	95.3	1.4			G1/100
BL	(0°-30°)	252.9	3.7	B1/500		
BM	(30°-60°)	317.7	4.6	B1/1000		
BH	(60°-80°)	367.5	5.3	B1/500		G1/500
BVH	(80°-90°)	18.7	0.3			G1/100
UL	(90°-100°)	11.1	0.2		U2/50	
UH	(100°-180°)	868.0	12.6		U4/1000	

BUG Rating: B1-U5-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2
2.5°	1013.2	1015.5	1028.7	1035.7	1045.8	1049.0	1060.6	1065.3	1069.2	1068.4	1068.4
5°	922.1	929.1	935.3	949.4	964.1	982.0	1004.6	1021.7	1024.8	1028.7	1031.1
7.5°	852.9	857.5	868.4	878.5	897.2	922.1	954.0	975.8	980.5	982.0	987.5
10°	803.8	807.0	816.3	829.5	851.3	875.4	908.9	931.5	938.5	941.6	946.2
12.5°	765.7	770.4	778.9	792.9	816.3	841.2	876.2	898.8	903.4	907.3	914.3
15°	741.6	744.7	752.5	768.0	789.1	814.0	848.2	875.4	878.5	882.4	888.7
17.5°	736.9	739.3	743.9	755.6	771.9	796.1	831.1	853.6	859.1	864.5	870.8
20°	755.6	757.1	758.7	760.3	769.6	785.2	819.4	843.5	848.2	852.9	860.6
22.5°	796.1	798.4	794.5	789.1	782.0	785.2	814.0	838.9	842.0	846.6	852.9
25°	866.1	863.8	852.1	843.5	818.6	798.4	815.5	836.5	840.4	845.1	852.1
27.5°	948.6	945.5	938.5	915.1	873.9	832.6	824.8	840.4	842.7	846.6	852.9
30°	1037.3	1038.1	1031.8	1006.2	953.2	884.0	845.9	849.7	851.3	854.4	858.3
32.5°	1117.4	1129.1	1128.3	1126.8	1051.3	953.2	886.3	870.8	868.4	870.8	872.3
35°	1210.0	1212.4	1234.2	1245.1	1183.6	1054.4	945.5	911.2	901.9	902.7	901.1
37.5°	1309.6	1312.8	1350.1	1368.8	1321.3	1169.6	1024.1	971.1	962.6	954.0	947.8
40°	1454.4	1466.8	1486.3	1507.3	1483.9	1324.4	1127.6	1056.0	1034.2	1032.6	1020.2
42.5°	1670.7	1666.8	1657.5	1674.6	1646.6	1498.0	1252.8	1175.8	1159.5	1137.7	1120.5
45°	1883.1	1891.7	1851.2	1859.0	1860.6	1698.7	1434.1	1326.0	1317.4	1291.7	1273.1
47.5°	2026.3	2017.0	1962.5	2002.2	2099.5	1932.9	1644.2	1530.6	1512.7	1499.5	1487.8
50°	2034.1	2026.3	1991.3	2061.3	2269.1	2349.3	1936.8	1804.6	1778.9	1755.5	1748.5
52.5°	1844.2	1833.3	1845.0	1987.4	2330.6	2697.9	2350.0	2144.6	2123.6	2104.1	2076.9
55°	1505.7	1518.2	1573.4	1778.1	2236.4	2945.3	3163.2	2669.9	2579.6	2578.8	2511.9
57.5°	1124.4	1112.0	1153.2	1345.4	1998.3	3033.3	3910.2	3788.1	3586.5	3450.4	3286.2
60°	758.7	761.8	799.9	898.8	1390.6	2937.5	4410.6	4836.3	4765.4	4736.7	4692.3
62.5°	526.0	530.7	565.7	658.3	813.2	2363.3	4556.9	5423.8	5550.6	5655.7	5630.0
65°	368.1	368.8	403.9	547.0	609.3	1213.9	4234.0	5501.6	5690.7	5871.2	6033.1
66°	324.5	325.3	354.1	508.9	584.4	915.9	3953.8	5393.4	5609.0	5819.1	5986.4
67.5°	277.8	282.5	305.0	432.7	560.3	706.6	3265.9	5070.5	5296.1	5527.3	5748.3
70°	190.6	192.2	212.4	350.9	524.5	620.2	1861.4	3958.5	4270.5	4676.7	4911.7
72.5°	136.2	134.6	137.0	217.1	538.5	616.3	978.1	2605.3	3041.8	3398.2	3652.7
75°	121.4	117.5	107.4	134.6	393.0	673.1	655.2	1533.8	1866.0	2190.5	2451.2
77.5°	108.2	101.9	96.5	103.5	194.5	634.2	588.3	878.5	1048.2	1290.2	1491.0
80°	82.5	78.6	81.7	89.5	116.7	583.6	584.4	584.4	630.3	709.7	789.1
82.5°	54.5	49.8	56.8	73.9	87.9	439.7	603.9	515.9	507.4	504.2	509.7
85°	34.2	29.6	39.7	55.2	67.7	229.6	619.4	544.7	505.0	466.9	428.8
87.5°	12.5	14.0	20.2	31.9	44.4	99.6	543.2	480.1	452.9	405.4	361.1
90°	8.1	7.3	10.9	17.3	18.1	25.7	90.3	141.1	87.6	48.1	40.5
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	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	7.5	7.6	7.7	7.8
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.0	10.8	10.6	10.4
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	27.5	27.2	26.9	26.6
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	48.5	48.2	47.9	47.6
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.0	70.8	70.6	70.4
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.5	94.4	94.3	94.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.5	120.6	120.7	120.8
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	149.0	149.2	149.4	149.6
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	180.5	180.8	181.1	181.4
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	213.0	213.4	213.8	214.2
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	248.0	248.4	248.8	249.2
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	281.0	281.4	281.8	282.2
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	314.0	314.2	314.4	314.6
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.5	345.6	345.7	345.8
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	379.0	379.4	379.8	380.2
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	413.5	414.0	414.5	415.0
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	445.5	446.0	446.5	447.0
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	474.0	474.2	474.4	474.6
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	501.0	501.2	501.4	501.6
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	530.0	530.6	531.2	531.8
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	559.0	559.6	560.2	560.8
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	582.5	583.0	583.5	584.0
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	598.5	598.8	599.1	599.4
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	612.5	612.8	613.1	613.4
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	628.5	629.0	629.5	630.0
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	646.0	646.4	646.8	647.2
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	661.0	661.6	662.2	662.8
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	669.0	669.4	669.8	670.2
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	674.5	675.0	675.5	676.0
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	681.0	681.6	682.2	682.8
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	687.5	687.8	688.1	688.4
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	690.5	690.8	691.1	691.4
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	692.5	693.0	693.5	694.0
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	696.5	697.0	697.5	698.0
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):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2
2.5°	1069.2	1073.1	1074.6	1073.1	1073.9	1078.5	1077.0	1079.3	1079.3	1080.9	1080.9
5°	1034.2	1037.3	1043.5	1042.7	1049.0	1051.3	1053.6	1056.7	1060.6	1063.0	1067.6
7.5°	992.9	999.2	1004.6	1007.7	1011.6	1019.4	1021.7	1028.7	1035.0	1041.2	1045.8
10°	953.2	961.8	968.0	970.4	978.9	982.8	991.4	996.8	1004.6	1012.4	1019.4
12.5°	919.8	927.6	930.7	938.5	946.2	954.0	957.9	968.0	975.8	985.9	995.3
15°	894.9	902.7	908.9	914.3	922.1	929.9	936.1	946.2	955.6	965.7	974.3
17.5°	879.3	884.0	891.8	896.4	905.8	915.1	922.1	933.8	943.9	952.5	964.1
20°	867.6	873.1	880.1	887.1	895.7	907.3	913.6	926.0	936.9	947.0	957.9
22.5°	861.4	866.9	873.9	880.9	890.2	899.6	909.7	920.6	932.2	943.1	954.0
25°	859.1	863.8	870.0	877.0	887.1	897.2	905.8	918.2	928.3	940.0	953.2
27.5°	859.9	863.0	870.0	876.2	886.3	895.7	904.2	916.7	928.3	939.2	952.5
30°	863.0	865.3	872.3	877.8	886.3	895.7	903.4	916.7	926.8	938.5	952.5
32.5°	873.9	877.0	880.1	884.0	891.8	898.8	908.1	919.8	929.1	940.8	952.5
35°	899.6	897.2	899.6	901.1	906.6	913.6	920.6	930.7	939.2	949.4	961.8
37.5°	940.0	935.3	936.9	936.1	936.1	940.8	947.8	954.8	961.8	971.9	984.4
40°	1014.7	1003.0	999.9	991.4	989.0	992.9	997.6	998.4	1006.9	1020.2	1025.6
42.5°	1111.2	1095.6	1098.0	1084.0	1080.1	1075.4	1081.6	1077.8	1083.2	1091.8	1103.4
45°	1263.7	1248.9	1233.4	1210.8	1215.5	1198.4	1193.7	1195.3	1194.5	1197.6	1211.6
47.5°	1445.8	1426.4	1416.2	1407.7	1391.3	1381.2	1368.0	1348.5	1353.2	1359.4	1371.9
50°	1711.9	1705.7	1686.3	1658.3	1654.4	1639.6	1635.7	1618.6	1612.3	1611.6	1610.8
52.5°	2067.6	2027.1	2019.3	1992.9	1972.6	1958.6	1954.0	1929.8	1905.7	1919.7	1918.2
55°	2501.0	2467.5	2424.7	2401.4	2385.1	2351.6	2343.0	2312.7	2298.7	2290.9	2271.4
57.5°	3229.4	3111.9	3023.9	2980.3	2918.9	2856.6	2834.8	2772.6	2724.3	2690.1	2692.4
60°	4499.3	4290.0	4043.3	3932.8	3676.8	3639.4	3463.6	3420.8	3315.0	3244.9	3204.5
62.5°	5612.1	5555.3	5437.0	5275.9	5019.1	4723.4	4590.4	4325.8	4118.8	4028.5	3903.2
65°	6143.6	6223.7	6256.4	6226.0	6123.3	5942.8	5784.1	5525.7	5178.6	4982.6	4739.0
66°	6116.3	6235.4	6295.3	6326.4	6289.1	6182.5	6015.9	5803.5	5535.0	5236.2	4963.1
67.5°	5917.1	6033.1	6116.3	6211.3	6211.3	6177.8	6110.1	5968.5	5778.6	5517.9	5272.8
70°	5103.2	5260.4	5407.4	5436.2	5517.1	5492.2	5545.9	5455.7	5410.5	5301.6	5170.1
72.5°	3975.6	4107.1	4233.2	4359.2	4338.2	4311.0	4305.6	4324.2	4232.4	4265.1	4230.8
75°	2644.2	2870.6	2999.8	2987.4	2995.9	3002.9	2945.3	2816.9	2916.5	2790.5	2832.5
77.5°	1606.9	1711.9	1747.0	1708.1	1657.5	1592.1	1487.1	1425.6	1337.7	1344.7	1286.3
80°	842.7	856.0	828.0	749.4	706.6	667.7	547.8	494.1	444.3	425.7	383.6
82.5°	483.2	451.3	417.1	390.6	340.1	305.8	259.1	229.6	197.7	169.6	159.5
85°	391.4	348.6	316.7	287.1	252.9	222.6	183.6	153.3	130.0	112.8	108.9
87.5°	322.9	293.4	260.7	232.7	199.2	168.1	130.0	101.2	80.2	64.6	59.9
90°	37.6	47.9	37.0	24.6	32.3	21.5	16.0	16.8	15.2	15.2	16.0
92.5°	7.0	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1
95°	7.9	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1
97.5°	10.2	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1
100°	26.3	26.0	25.7	25.4	25.1	24.8	24.5	24.2	23.9	23.6	23.3
102.5°	47.3	47.0	46.5	46.0	45.5	45.0	44.5	44.0	43.5	43.0	42.5
105°	70.2	70.0	69.5	69.0	68.5	68.0	67.5	67.0	66.5	66.0	65.5
107.5°	94.1	94.0	93.6	93.2	92.8	92.4	92.0	91.6	91.2	90.8	90.4



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CATALOG NUMBER: IST-AF-1000-LED-E1-SL2-7030-ULG

CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
110°	120.9	121.0	120.8	120.6	120.4	120.2	120.0	119.8	119.6	119.4	119.2
112.5°	149.8	150.0	149.9	149.8	149.7	149.6	149.5	149.4	149.3	149.2	149.1
115°	181.7	182.0	181.7	181.4	181.1	180.8	180.5	180.2	179.9	179.6	179.3
117.5°	214.6	215.0	214.5	214.0	213.5	213.0	212.5	212.0	211.5	211.0	210.5
120°	249.6	250.0	249.5	249.0	248.5	248.0	247.5	247.0	246.5	246.0	245.5
122.5°	282.6	283.0	282.5	282.0	281.5	281.0	280.5	280.0	279.5	279.0	278.5
125°	314.8	315.0	314.5	314.0	313.5	313.0	312.5	312.0	311.5	311.0	310.5
127.5°	345.9	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0
130°	380.6	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
132.5°	415.5	416.0	415.8	415.6	415.4	415.2	415.0	414.8	414.6	414.4	414.2
135°	447.5	448.0	447.9	447.8	447.7	447.6	447.5	447.4	447.3	447.2	447.1
137.5°	474.8	475.0	475.1	475.2	475.3	475.4	475.5	475.6	475.7	475.8	475.9
140°	501.8	502.0	502.2	502.4	502.6	502.8	503.0	503.2	503.4	503.6	503.8
142.5°	532.4	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
145°	561.4	562.0	561.9	561.8	561.7	561.6	561.5	561.4	561.3	561.2	561.1
147.5°	584.5	585.0	585.1	585.2	585.3	585.4	585.5	585.6	585.7	585.8	585.9
150°	599.7	600.0	600.3	600.6	600.9	601.2	601.5	601.8	602.1	602.4	602.7
152.5°	613.7	614.0	614.4	614.8	615.2	615.6	616.0	616.4	616.8	617.2	617.6
155°	630.5	631.0	631.5	632.0	632.5	633.0	633.5	634.0	634.5	635.0	635.5
157.5°	647.6	648.0	648.2	648.4	648.6	648.8	649.0	649.2	649.4	649.6	649.8
160°	663.4	664.0	663.7	663.4	663.1	662.8	662.5	662.2	661.9	661.6	661.3
162.5°	670.6	671.0	670.9	670.8	670.7	670.6	670.5	670.4	670.3	670.2	670.1
165°	676.5	677.0	677.3	677.6	677.9	678.2	678.5	678.8	679.1	679.4	679.7
167.5°	683.4	684.0	684.4	684.8	685.2	685.6	686.0	686.4	686.8	687.2	687.6
170°	688.7	689.0	689.5	690.0	690.5	691.0	691.5	692.0	692.5	693.0	693.5
172.5°	691.7	692.0	692.2	692.4	692.6	692.8	693.0	693.2	693.4	693.6	693.8
175°	694.5	695.0	695.1	695.2	695.3	695.4	695.5	695.6	695.7	695.8	695.9
177.5°	698.5	699.0	699.2	699.4	699.6	699.8	700.0	700.2	700.4	700.6	700.8
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):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2
2.5°	1083.2	1083.2	1084.8	1086.3	1087.1	1087.1	1087.1	1088.6	1089.4	1087.1	1089.4
5°	1070.0	1073.9	1077.0	1079.3	1080.1	1082.4	1084.8	1086.3	1088.6	1088.6	1090.2
7.5°	1052.1	1059.1	1063.0	1066.9	1070.7	1074.6	1079.3	1082.4	1084.0	1087.1	1089.4
10°	1029.5	1038.1	1045.8	1052.1	1057.5	1065.3	1071.5	1076.2	1083.2	1084.0	1089.4
12.5°	1005.4	1017.8	1024.1	1035.7	1043.5	1055.2	1061.4	1068.4	1076.2	1080.1	1086.3
15°	988.3	999.2	1010.8	1021.7	1034.2	1048.2	1056.0	1065.3	1076.2	1084.8	1092.5
17.5°	975.0	989.8	1003.0	1017.1	1032.6	1047.4	1059.1	1069.2	1083.2	1087.9	1095.6
20°	971.1	987.5	1000.7	1015.5	1031.8	1051.3	1065.3	1076.2	1090.2	1098.0	1105.0
22.5°	969.6	985.1	1000.7	1018.6	1036.5	1056.7	1071.5	1085.5	1099.5	1106.5	1112.0
25°	968.0	984.4	1001.5	1021.7	1041.2	1062.2	1079.3	1092.5	1105.8	1112.8	1117.4
27.5°	968.0	985.1	1003.8	1024.1	1045.1	1068.4	1084.8	1097.2	1108.9	1115.1	1116.7
30°	967.3	985.1	1003.0	1025.6	1048.2	1072.3	1090.2	1101.9	1112.0	1115.9	1114.3
32.5°	968.8	987.5	1006.9	1029.5	1052.8	1076.2	1094.9	1108.1	1113.5	1112.8	1112.0
35°	976.6	993.7	1016.3	1038.8	1063.0	1084.8	1102.7	1112.0	1116.7	1115.1	1111.2
37.5°	997.6	1014.7	1037.3	1062.2	1080.9	1105.8	1122.1	1129.1	1129.9	1125.2	1115.9
40°	1041.2	1058.3	1078.5	1105.8	1128.3	1145.4	1161.0	1168.8	1164.1	1155.6	1145.4
42.5°	1110.4	1132.2	1156.3	1178.1	1204.6	1227.9	1231.8	1236.5	1228.7	1212.4	1199.9
45°	1221.7	1234.9	1266.1	1282.4	1316.6	1328.3	1336.9	1339.2	1322.1	1308.9	1287.1
47.5°	1382.0	1407.7	1429.5	1445.0	1469.9	1485.5	1502.6	1494.8	1481.6	1459.0	1430.3
50°	1634.1	1650.5	1678.5	1706.5	1733.0	1743.9	1743.9	1736.1	1727.5	1683.9	1648.9
52.5°	1943.8	1945.4	1985.9	2019.3	2041.9	2025.5	2045.0	2025.5	2020.1	1989.8	1961.0
55°	2302.6	2287.8	2336.8	2366.4	2386.6	2406.1	2402.2	2399.8	2379.6	2345.4	2310.4
57.5°	2643.4	2686.2	2709.5	2753.1	2763.2	2776.5	2771.0	2763.2	2751.6	2732.1	2716.6
60°	3135.2	3164.0	3185.0	3193.6	3222.4	3226.2	3245.7	3213.8	3221.6	3199.0	3150.0
62.5°	3804.4	3773.3	3789.6	3789.6	3781.1	3750.7	3767.1	3779.5	3758.5	3739.8	3732.1
65°	4553.8	4453.4	4356.9	4340.6	4296.2	4286.1	4273.6	4242.5	4229.3	4196.6	4170.2
66°	4777.9	4622.3	4531.2	4475.2	4421.5	4409.8	4392.7	4360.0	4333.6	4287.7	4243.3
67.5°	5029.2	4828.5	4691.5	4612.1	4546.0	4502.4	4468.2	4421.5	4379.5	4311.0	4240.2
70°	5012.9	4847.2	4682.2	4561.6	4462.0	4372.5	4319.6	4219.2	4133.6	4035.5	3954.6
72.5°	4212.2	4182.6	4086.9	4019.2	3897.0	3849.6	3709.5	3645.7	3527.4	3400.6	3361.6
75°	2928.2	2812.3	2763.2	2736.0	2682.3	2534.5	2438.0	2459.0	2320.5	2196.7	2125.9
77.5°	1280.1	1303.4	1168.0	1107.3	1060.6	980.5	905.8	854.4	824.8	805.4	717.5
80°	354.1	308.9	305.0	283.2	278.6	248.2	252.1	230.3	215.6	212.4	205.4
82.5°	154.9	151.7	147.1	144.7	142.4	139.3	135.4	134.6	130.0	126.1	126.8
85°	102.7	101.9	99.6	97.3	93.4	87.9	84.0	80.9	81.7	77.8	77.0
87.5°	59.9	58.4	57.6	54.5	53.7	49.0	49.8	45.9	45.1	44.4	42.0
90°	17.6	18.1	20.3	19.3	16.0	22.8	20.3	18.5	19.1	16.5	16.3
92.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.1	8.0
100°	23.0	22.6	22.2	21.8	21.4	21.0	20.6	20.2	19.8	19.4	19.0
102.5°	42.0	41.7	41.4	41.1	40.8	40.5	40.2	39.9	39.6	39.3	39.0
105°	65.0	64.6	64.2	63.8	63.4	63.0	62.6	62.2	61.8	61.4	61.0
107.5°	90.0	89.7	89.4	89.1	88.8	88.5	88.2	87.9	87.6	87.3	87.0



REPORT NUMBER: P226844
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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
110°	119.0	118.7	118.4	118.1	117.8	117.5	117.2	116.9	116.6	116.3	116.0	0°
112.5°	149.0	148.8	148.6	148.4	148.2	148.0	147.8	147.6	147.4	147.2	147.0	2.5°
115°	179.0	178.8	178.6	178.4	178.2	178.0	177.8	177.6	177.4	177.2	177.0	5°
117.5°	210.0	209.8	209.6	209.4	209.2	209.0	208.8	208.6	208.4	208.2	208.0	7.5°
120°	245.0	244.8	244.6	244.4	244.2	244.0	243.8	243.6	243.4	243.2	243.0	10°
122.5°	278.0	277.8	277.6	277.4	277.2	277.0	276.8	276.6	276.4	276.2	276.0	12.5°
125°	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°
127.5°	346.0	345.9	345.8	345.7	345.6	345.5	345.4	345.3	345.2	345.1	345.0	17.5°
130°	381.0	380.8	380.6	380.4	380.2	380.0	379.8	379.6	379.4	379.2	379.0	20°
132.5°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	22.5°
135°	447.0	447.3	447.6	447.9	448.2	448.5	448.8	449.1	449.4	449.7	450.0	25°
137.5°	476.0	476.5	477.0	477.5	478.0	478.5	479.0	479.5	480.0	480.5	481.0	27.5°
140°	504.0	504.5	505.0	505.5	506.0	506.5	507.0	507.5	508.0	508.5	509.0	30°
142.5°	533.0	533.1	533.2	533.3	533.4	533.5	533.6	533.7	533.8	533.9	534.0	32.5°
145°	561.0	560.7	560.4	560.1	559.8	559.5	559.2	558.9	558.6	558.3	558.0	35°
147.5°	586.0	585.7	585.4	585.1	584.8	584.5	584.2	583.9	583.6	583.3	583.0	37.5°
150°	603.0	603.3	603.6	603.9	604.2	604.5	604.8	605.1	605.4	605.7	606.0	40°
152.5°	618.0	618.5	619.0	619.5	620.0	620.5	621.0	621.5	622.0	622.5	623.0	42.5°
155°	636.0	636.2	636.4	636.6	636.8	637.0	637.2	637.4	637.6	637.8	638.0	45°
157.5°	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	47.5°
160°	661.0	660.9	660.8	660.7	660.6	660.5	660.4	660.3	660.2	660.1	660.0	50°
162.5°	670.0	669.8	669.6	669.4	669.2	669.0	668.8	668.6	668.4	668.2	668.0	52.5°
165°	680.0	679.8	679.6	679.4	679.2	679.0	678.8	678.6	678.4	678.2	678.0	55°
167.5°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	57.5°
170°	694.0	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	60°
172.5°	694.0	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	62.5°
175°	696.0	695.8	695.6	695.4	695.2	695.0	694.8	694.6	694.4	694.2	694.0	65°
177.5°	701.0	700.7	700.4	700.1	699.8	699.5	699.2	698.9	698.6	698.3	698.0	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-1000-LED-E1-SL2-7030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	86°	
1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	1090.2	110°	116.2
1091.8	1093.3	1094.1	1093.3	1094.9	1094.1	1094.9	1094.1	1090.2	1089.4	1088.6	112.5°	147.0
1093.3	1096.4	1097.2	1098.0	1096.4	1098.0	1094.9	1082.4	1068.4	1052.8	1040.4	115°	177.2
1094.9	1098.8	1101.1	1101.1	1101.9	1100.3	1088.6	1061.4	1028.7	996.0	971.1	117.5°	208.2
1094.1	1099.5	1101.9	1102.7	1102.7	1099.5	1071.5	1027.9	978.1	928.3	877.8	120°	243.0
1091.8	1096.4	1100.3	1100.3	1101.1	1090.2	1046.6	984.4	913.6	838.9	771.2	122.5°	276.2
1096.4	1101.1	1101.1	1101.1	1100.3	1081.6	1020.2	929.9	835.0	733.8	633.4	125°	310.0
1103.4	1105.8	1104.2	1104.2	1101.1	1073.1	990.6	876.2	751.7	617.9	477.8	127.5°	345.4
1109.7	1111.2	1110.4	1106.5	1102.7	1063.7	960.2	819.4	652.1	477.8	338.5	130°	379.2
1115.9	1117.4	1113.5	1107.3	1101.9	1051.3	923.7	747.0	539.3	326.8	224.1	132.5°	414.2
1116.7	1118.2	1111.2	1102.7	1094.9	1032.6	879.3	670.0	415.5	211.7	175.1	135°	450.2
1115.9	1114.3	1102.7	1091.8	1083.2	1010.1	830.3	574.3	277.0	159.5	152.5	137.5°	481.2
1110.4	1103.4	1094.1	1081.6	1069.2	985.1	781.3	467.7	175.1	138.5	138.5	140°	509.4
1102.7	1095.6	1084.0	1067.6	1053.6	961.0	725.2	358.7	140.1	127.6	129.2	142.5°	534.4
1099.5	1091.8	1074.6	1057.5	1039.6	939.2	666.1	241.2	126.1	120.6	121.4	145°	558.4
1105.8	1092.5	1075.4	1056.0	1035.0	920.6	604.6	168.1	119.1	112.8	114.4	147.5°	583.4
1126.8	1114.3	1094.1	1069.2	1046.6	909.7	539.3	139.3	112.1	106.6	106.6	150°	606.8
1177.4	1161.0	1133.8	1104.2	1077.0	916.7	480.9	126.8	106.6	101.2	101.2	152.5°	624.0
1259.1	1239.6	1207.7	1174.2	1138.4	950.9	414.8	122.2	102.7	94.9	93.4	155°	638.6
1399.1	1373.5	1331.4	1291.7	1248.9	1010.1	347.8	119.1	98.0	91.0	87.9	157.5°	651.0
1619.3	1581.2	1531.4	1479.3	1427.1	1118.2	294.9	115.9	94.9	87.9	84.8	160°	661.2
1902.6	1876.9	1814.7	1746.2	1683.9	1333.8	264.6	113.6	92.6	84.0	81.7	162.5°	669.2
2263.7	2221.6	2172.6	2111.1	2037.2	1613.1	261.5	112.8	90.3	80.9	79.4	165°	678.8
2645.0	2628.6	2545.4	2507.2	2427.1	1985.1	318.3	114.4	88.7	78.6	76.3	167.5°	689.2
3080.0	3086.2	3008.4	2966.3	2900.2	2456.6	506.6	119.1	88.7	76.3	73.9	170°	697.0
3648.8	3658.9	3567.1	3517.3	3461.3	2985.0	796.1	126.8	91.0	73.9	71.6	172.5°	697.0
4114.9	4060.4	4001.3	3914.1	3843.3	3279.9	766.5	140.8	94.2	71.6	69.3	175°	695.0
4163.2	4124.2	4049.5	3955.4	3869.0	3281.5	669.2	145.5	94.9	70.8	68.5	177.5°	698.8
4156.9	4087.7	4002.8	3923.5	3838.7	3197.5	517.5	151.7	97.3	69.3	66.9	180°	700.0
3869.0	3771.7	3689.3	3579.5	3490.8	2861.3	318.3	151.0	94.2	64.6	63.0		
3190.5	3140.6	3042.6	2954.7	2862.1	2315.8	217.9	134.6	83.3	58.4	59.1		
2063.7	2006.9	1907.3	1857.5	1805.3	1481.6	169.6	109.7	70.8	52.1	54.5		
688.7	666.1	629.5	649.8	619.4	577.4	124.5	83.3	56.8	45.1	48.2		
206.2	201.5	208.5	196.1	207.8	175.9	81.7	58.4	43.6	38.9	42.8		
122.2	120.6	120.6	120.6	117.5	109.7	53.7	40.5	33.5	32.7	35.8		
74.7	73.1	73.9	73.1	74.7	66.9	36.6	28.0	24.9	24.1	28.8		
42.8	42.8	43.6	42.0	42.8	41.2	25.7	17.9	16.3	15.6	21.0		
17.1	17.1	14.8	14.0	14.8	17.9	16.0	14.4	11.7	10.9	15.0		
6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	6.0	6.0		
7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0	7.0	7.0		
8.0	8.0	8.0	8.0	8.0	8.0	9.0	10.0	12.0	9.0	9.0		
19.0	19.0	19.0	19.0	19.0	19.0	23.0	26.0	29.0	21.0	12.0		
38.8	38.6	38.4	38.2	38.0	39.0	42.0	47.0	50.0	40.0	27.0		
61.0	61.0	61.0	61.0	61.0	61.0	65.0	70.0	72.0	63.0	48.0		
86.8	86.6	86.4	86.2	86.0	87.0	90.0	94.0	95.0	88.0	73.0		

'226844
 IST-AF-1000-LED-E1-SL2-7030-ULG

REPORT NUMBER: P226844
 CATALOG NUMBER: IST-AF-10

TION (continued):

CANDELA DISTRIBUTION (con

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
116.4	116.6	116.8	117.0	116.0	119.0	121.0	120.0	114.0	102.0	0°	1090.2	1090.2
147.0	147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	2.5°	1082.4	1077.0
177.4	177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	5°	1020.9	1006.2
208.4	208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	7.5°	932.2	915.1
243.0	243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	10°	831.1	805.4
276.4	276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	12.5°	701.9	651.3
310.0	310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	15°	552.5	484.8
345.8	346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	17.5°	380.5	326.0
379.4	379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	20°	266.9	246.7
414.4	414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	22.5°	206.2	207.0
450.4	450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	25°	171.2	179.0
481.4	481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	27.5°	151.0	158.7
509.8	510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	30°	138.5	145.5
534.8	535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	32.5°	130.0	133.1
558.8	559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	35°	119.8	121.4
583.8	584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	37.5°	111.3	111.3
607.6	608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	40°	103.5	102.7
625.0	626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	42.5°	96.5	95.7
639.2	639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	45°	89.5	90.3
652.0	653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	47.5°	85.6	86.4
662.4	663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	50°	81.7	82.5
670.4	671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	52.5°	78.6	78.6
679.6	680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	55°	75.5	74.7
690.4	691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	57.5°	73.1	71.6
698.0	699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	60°	70.8	69.3
698.0	699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	62.5°	69.3	66.9
696.0	697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	65°	67.7	66.1
699.6	700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	66°	66.9	65.4
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	66.1	64.6
										70°	63.0	61.5
										72.5°	58.4	57.6
										75°	53.7	52.1
										77.5°	47.5	46.7
										80°	40.5	39.7
										82.5°	34.2	32.7
										85°	27.2	25.7
										87.5°	18.7	17.1
										90°	12.7	12.4
										92.5°	6.0	5.0
										95°	7.0	6.0
										97.5°	8.0	8.0
										100°	10.0	9.0
										102.5°	18.0	13.0
										105°	36.0	27.0
										107.5°	58.0	49.0

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REPORT NUMBER: P226844

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tinued):

175°	180°
1090.2	1090.2
1072.3	1079.3
1001.5	999.2
901.1	901.9
779.7	781.3
622.5	613.2
445.9	449.8
310.5	309.7
249.0	250.6
213.2	213.2
189.9	189.9
167.3	168.1
151.7	153.3
137.7	138.5
123.7	124.5
112.1	112.1
104.3	105.1
98.8	98.8
93.4	93.4
88.7	90.3
84.0	84.8
79.4	80.2
74.7	74.7
70.8	70.8
67.7	66.9
65.4	63.8
63.0	62.3
62.3	61.5
61.5	60.7
59.9	59.1
57.6	56.8
52.9	51.4
48.2	46.7
44.4	42.0
37.4	35.8
27.2	25.7
16.3	16.3
8.9	8.9
4.0	4.0
5.0	5.0
7.0	7.0
8.0	8.0
11.0	11.0
22.0	21.0
42.0	41.0

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	87.0	74.0	68.0
112.5°	121.0	106.0	99.0
115°	159.0	147.0	139.0
117.5°	197.0	189.0	184.0
120°	233.0	226.0	223.0
122.5°	267.0	261.0	260.0
125°	299.0	296.0	294.0
127.5°	333.0	329.0	329.0
130°	366.0	362.0	361.0
132.5°	401.0	393.0	394.0
135°	432.0	426.0	426.0
137.5°	460.0	459.0	457.0
140°	489.0	487.0	485.0
142.5°	518.0	517.0	515.0
145°	547.0	544.0	546.0
147.5°	574.0	571.0	572.0
150°	593.0	593.0	592.0
152.5°	609.0	608.0	608.0
155°	627.0	625.0	625.0
157.5°	644.0	643.0	643.0
160°	656.0	659.0	660.0
162.5°	665.0	669.0	669.0
165°	676.0	676.0	678.0
167.5°	686.0	684.0	687.0
170°	692.0	692.0	695.0
172.5°	693.0	695.0	697.0
175°	695.0	697.0	698.0
177.5°	699.0	700.0	705.0
180°	700.0	700.0	700.0



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180°
66.0
99.0
140.0
184.0
225.0
263.0
298.0
330.0
363.0
396.0
429.0
460.0
488.0
518.0
550.0
575.0
595.0
611.0
629.0
646.0
663.0
673.0
681.0
690.0
698.0
699.0
700.0
707.0
700.0

(END OF REPORT)