

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: P226946

Luminaire Tested: **IST-AF-800-LED-E1-SL3-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226946
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-SL3-8030-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, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5695 lumens
Efficiency: N/A
Efficacy: 94.6 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

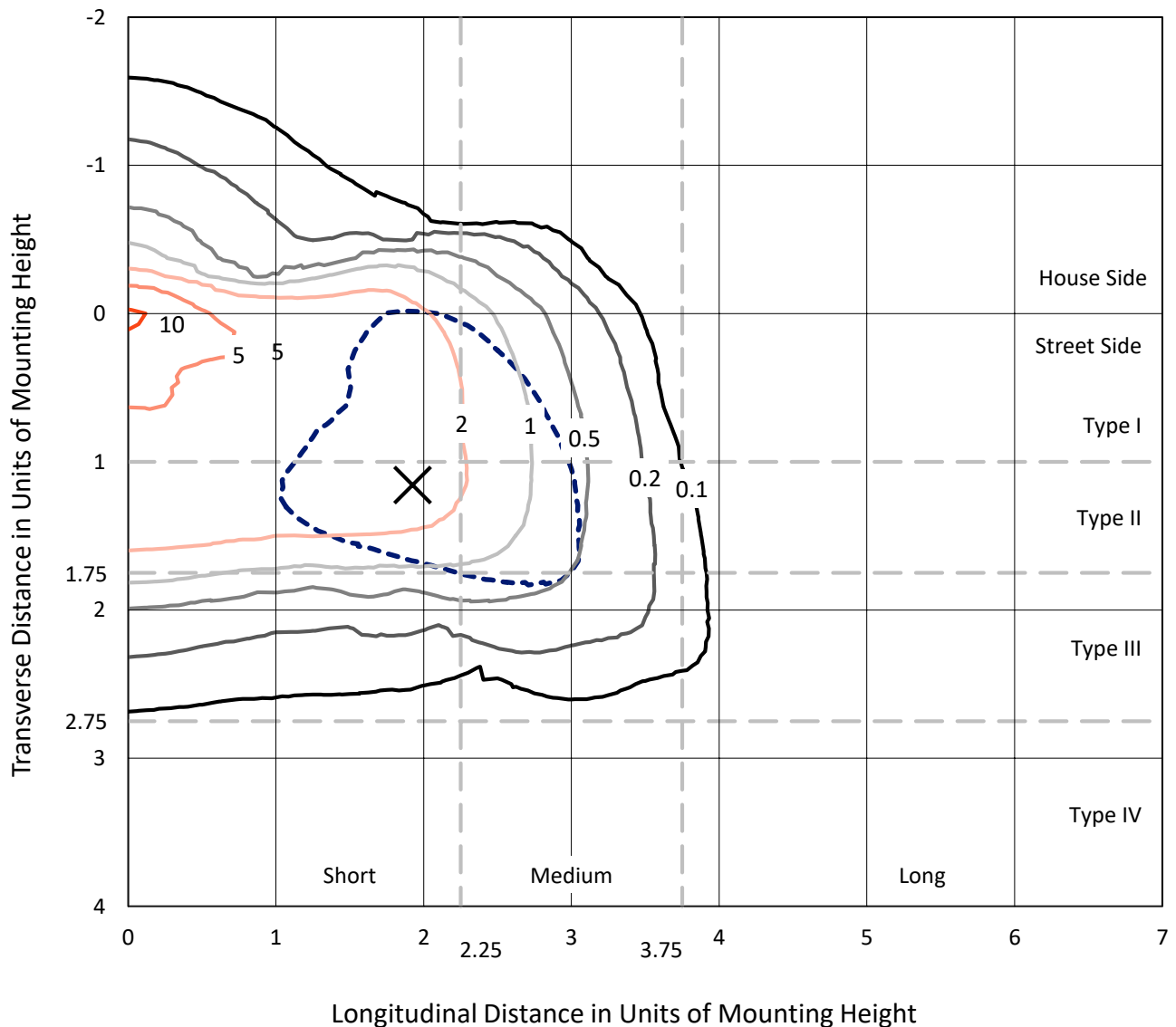
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

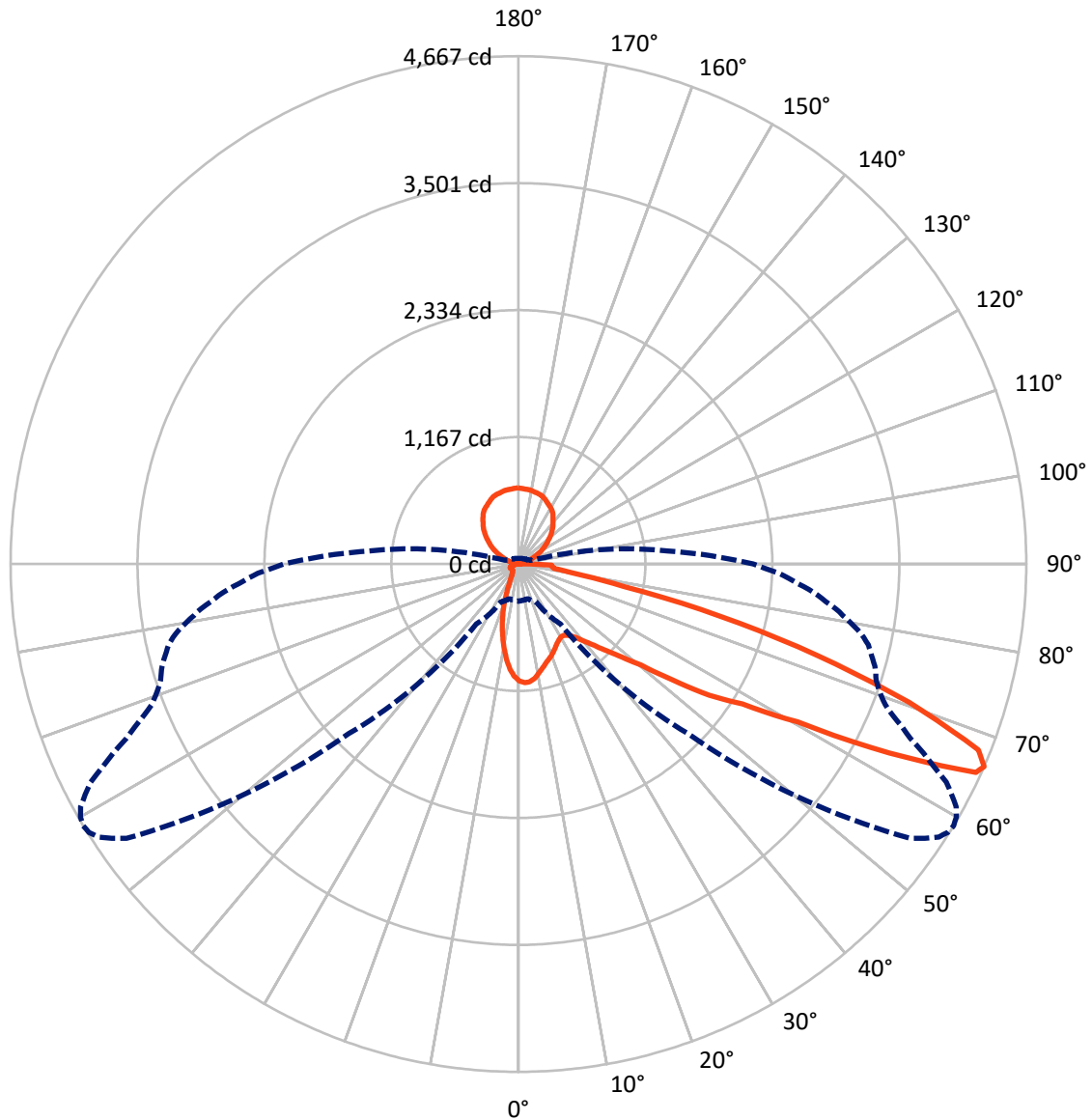
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 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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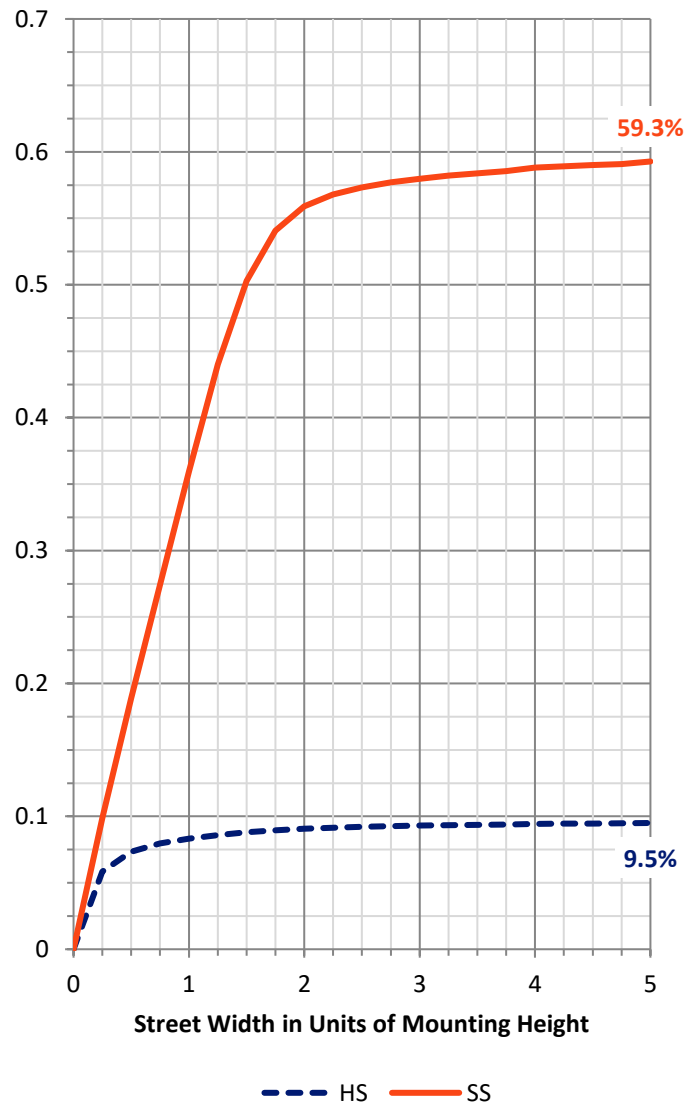
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	549.8	867.8	1417.6
	% Fixture	9.7	15.2	24.9
Street Side	Lumens	3408.4	869.0	4277.4
	% Fixture	59.8	15.3	75.1
Total	Lumens	3958.1	1736.8	5695.0
	% Fixture	69.5	30.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	1.6
10°-20°	193.7	3.4
20°-30°	242.9	4.3
30°-40°	332.4	5.8
40°-50°	534.7	9.4
50°-60°	929.1	16.3
60°-70°	1128.8	19.8
70°-80°	421.1	7.4
80°-90°	83.8	1.5
90°-100°	11.0	0.2
100°-110°	57.4	1.0
110°-120°	166.1	2.9
120°-130°	273.2	4.8
130°-140°	336.8	5.9
140°-150°	344.6	6.1
150°-160°	290.3	5.1
160°-170°	191.2	3.4
170°-180°	66.3	1.2
0°-90°	3958.1	69.5
0°-180°	5695.0	100.0



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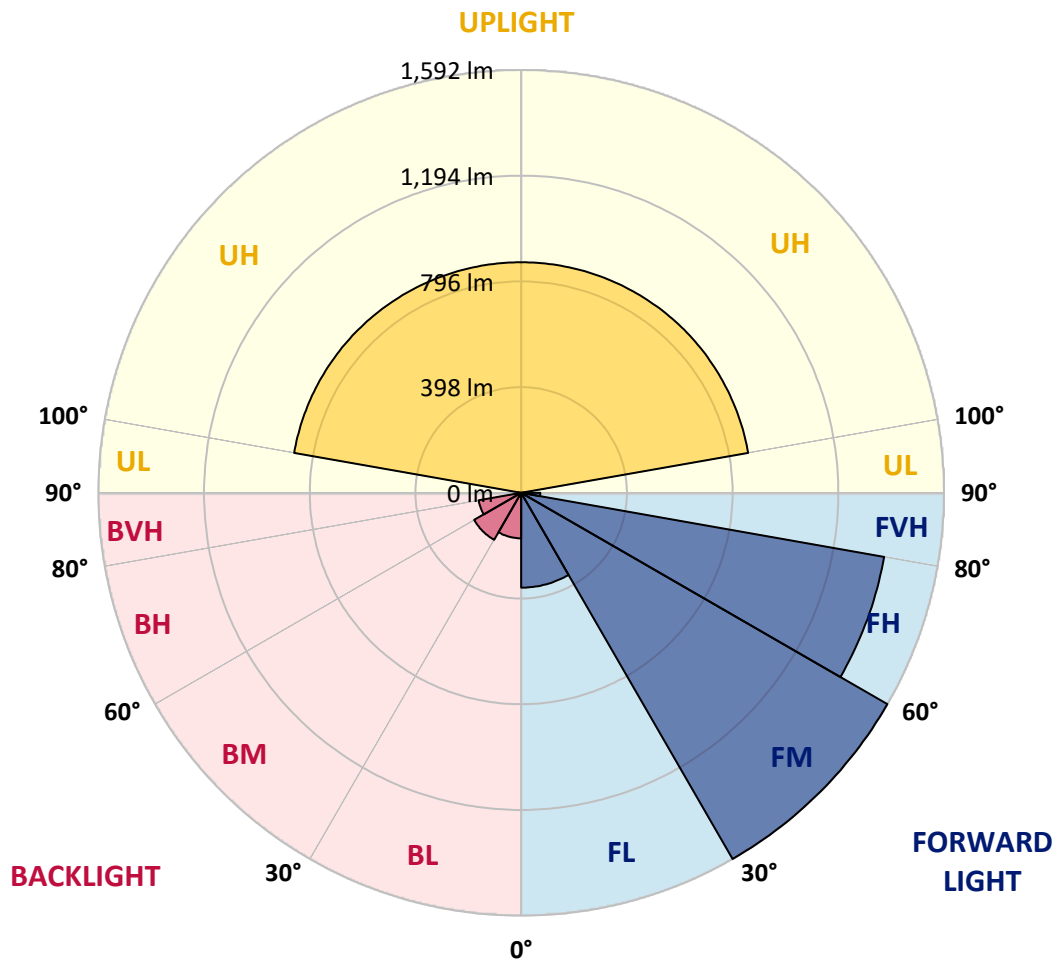
CATALOG NUMBER: IST-AF-800-LED-E1-SL3-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.0	6.3			
FM	(30°-60°)	1591.9	28.0			
FH	(60°-80°)	1387.5	24.4			G1/1800
FVH	(80°-90°)	72.0	1.3			G1/100
BL	(0°-30°)	171.3	3.0	B1/500		
BM	(30°-60°)	204.2	3.6	B0/220		
BH	(60°-80°)	162.4	2.9	B1/500		G1/500
BVH	(80°-90°)	11.9	0.2			G1/100
UL	(90°-100°)	11.0	0.2		U2/50	
UH	(100°-180°)	867.8	15.2		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°	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5
2.5°	1103.4	1099.8	1106.5	1104.0	1105.8	1096.7	1094.9	1093.1	1094.3	1092.5	1092.5
5°	1077.3	1075.5	1083.4	1087.6	1091.3	1090.1	1089.5	1089.5	1090.1	1085.8	1086.4
7.5°	1000.8	999.6	1010.6	1018.4	1036.0	1046.4	1059.7	1060.3	1061.5	1059.7	1063.4
10°	919.5	923.2	932.9	945.6	971.7	987.5	1013.0	1017.8	1019.7	1020.3	1020.9
12.5°	841.8	838.2	850.3	874.6	909.8	935.3	967.5	969.9	972.9	977.2	981.4
15°	772.6	776.9	786.6	812.1	849.1	884.9	926.8	929.2	935.3	938.9	945.0
17.5°	725.3	725.3	736.2	759.9	794.5	840.0	892.8	897.1	901.9	906.8	913.4
20°	701.6	701.6	705.9	719.8	750.2	793.9	857.6	862.5	871.0	876.4	885.5
22.5°	699.8	699.2	698.6	701.6	719.8	753.8	820.0	826.7	833.9	842.4	850.3
25°	719.2	721.0	713.8	708.9	710.7	726.5	784.2	787.8	801.8	807.2	816.9
27.5°	747.1	750.2	744.1	736.8	725.9	715.6	753.8	759.9	769.0	778.1	790.2
30°	787.2	786.6	786.0	781.1	759.9	727.7	744.7	749.0	756.9	764.1	774.5
32.5°	830.3	835.2	838.8	836.4	814.5	759.9	757.5	761.1	768.4	772.6	779.3
35°	886.1	888.6	902.5	902.5	880.7	817.5	793.3	796.3	799.9	801.8	806.6
37.5°	947.4	955.9	976.6	988.7	954.7	889.2	849.7	849.7	851.5	852.8	855.8
40°	1018.4	1030.6	1059.1	1082.2	1060.3	978.4	923.8	929.2	927.4	925.0	931.7
42.5°	1101.0	1114.3	1148.9	1170.8	1158.0	1085.8	1023.3	1019.7	1025.1	1017.8	1020.3
45°	1196.9	1207.2	1242.4	1265.5	1275.8	1217.5	1153.8	1146.5	1146.5	1130.7	1137.4
47.5°	1283.1	1286.1	1320.1	1360.8	1394.1	1395.4	1305.5	1300.7	1289.1	1278.8	1276.4
50°	1363.2	1372.3	1394.1	1438.5	1508.2	1568.9	1514.3	1499.1	1486.4	1448.2	1459.7
52.5°	1502.2	1519.8	1533.7	1560.4	1643.0	1766.2	1833.6	1809.9	1806.9	1772.3	1764.4
55°	1528.3	1530.1	1576.2	1730.4	1924.6	2013.2	2142.5	2141.9	2151.6	2140.7	2130.4
57.5°	1405.7	1391.1	1468.2	1671.5	2061.8	2517.0	2477.5	2481.8	2469.0	2435.7	2425.3
60°	1094.9	1107.1	1190.2	1449.4	1962.8	2842.3	3102.7	3025.6	3080.8	2994.0	2947.3
62.5°	616.0	602.1	658.5	931.0	1610.2	2859.3	3954.2	3962.7	3989.4	3940.9	3826.8
65°	397.5	391.5	386.0	471.0	965.0	2501.2	4425.2	4529.6	4592.1	4617.6	4619.4
66°	341.7	336.9	330.2	385.4	672.5	2203.8	4394.9	4506.5	4606.1	4653.4	4667.4
67.5°	290.7	283.4	282.2	319.3	468.0	1709.8	4105.3	4280.8	4368.8	4491.4	4558.1
70°	222.1	218.5	229.4	275.6	359.3	804.8	3271.4	3500.2	3652.0	3747.9	3809.8
72.5°	186.3	185.1	200.3	251.9	340.5	456.4	2290.0	2535.8	2694.2	2785.9	2870.8
75°	145.7	146.9	166.9	240.3	338.7	397.5	1330.4	1564.7	1656.9	1801.4	1911.9
77.5°	109.2	108.0	123.8	194.2	330.2	403.0	691.3	788.4	889.8	963.2	989.9
80°	76.5	77.7	88.6	133.5	257.3	414.5	430.9	453.4	474.6	498.3	503.2
82.5°	51.0	51.6	65.5	91.6	178.4	395.7	402.4	392.1	375.7	355.1	332.6
85°	31.0	32.2	46.7	61.9	138.4	358.1	416.4	389.0	364.2	336.9	309.5
87.5°	15.8	17.6	27.9	36.4	81.9	176.6	433.4	413.3	379.3	337.5	307.1
90°	9.2	9.2	13.1	17.1	24.4	42.8	116.2	105.5	56.6	101.1	53.9
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	7.1	7.2	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	11.2
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	28.7	28.4	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	48.8
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.8	71.6	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	94.6



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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°	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5
2.5°	1091.9	1093.1	1091.9	1090.1	1091.9	1090.1	1089.5	1088.9	1089.5	1088.2	1087.6
5°	1086.4	1087.6	1087.6	1084.0	1083.4	1085.8	1082.2	1083.4	1082.2	1081.0	1078.5
7.5°	1060.3	1060.9	1061.5	1059.1	1060.9	1060.9	1059.7	1059.7	1058.5	1059.1	1056.7
10°	1023.9	1026.3	1028.8	1027.6	1026.9	1032.4	1030.0	1031.8	1031.8	1030.0	1030.6
12.5°	984.5	988.7	991.7	991.7	994.2	1000.2	999.6	1000.8	1005.7	1005.7	1003.9
15°	948.0	952.3	957.1	960.8	965.6	969.9	972.9	977.8	980.2	980.2	983.2
17.5°	919.5	925.6	931.0	932.9	939.5	946.8	948.6	954.7	958.4	960.2	963.8
20°	891.6	898.3	904.9	911.0	917.1	925.6	929.8	933.5	939.5	943.2	948.6
22.5°	858.8	869.1	877.6	884.9	895.2	902.5	911.0	917.1	924.4	929.8	934.1
25°	827.9	841.8	853.4	860.6	874.6	884.9	895.2	904.3	913.4	921.3	927.4
27.5°	799.3	815.1	829.1	840.6	855.8	872.2	882.5	897.7	909.8	920.7	928.0
30°	785.4	798.7	813.3	826.7	841.8	862.5	879.5	898.9	914.1	928.0	938.9
32.5°	788.4	800.6	813.3	824.8	840.6	863.7	881.3	903.7	926.2	944.4	958.4
35°	812.7	823.6	832.1	842.4	856.4	874.0	892.8	916.5	944.4	968.7	986.9
37.5°	863.7	866.7	875.2	883.1	890.4	906.8	924.4	944.4	976.6	1002.1	1027.6
40°	926.8	934.7	942.6	946.2	954.7	965.0	972.9	994.2	1022.7	1056.1	1084.0
42.5°	1020.9	1023.9	1025.1	1026.3	1029.4	1036.7	1048.2	1067.6	1095.5	1125.3	1156.2
45°	1126.5	1130.1	1133.8	1135.6	1131.3	1135.6	1147.7	1156.8	1184.1	1212.1	1251.5
47.5°	1272.8	1261.8	1256.4	1263.7	1260.0	1269.1	1274.6	1280.0	1312.8	1346.2	1379.6
50°	1460.3	1453.6	1445.1	1445.7	1452.4	1446.3	1450.0	1470.0	1480.9	1508.9	1553.2
52.5°	1760.1	1739.5	1707.3	1693.4	1701.3	1696.4	1698.2	1702.5	1695.2	1721.3	1758.9
55°	2130.4	2103.7	2082.4	2070.3	2025.4	2021.7	1992.0	1981.1	1957.4	1982.3	1973.8
57.5°	2394.4	2377.4	2366.5	2330.0	2309.4	2268.1	2256.0	2241.4	2208.7	2225.0	2239.6
60°	2904.2	2843.5	2822.9	2759.2	2737.9	2698.5	2648.1	2623.2	2606.2	2622.0	2612.3
62.5°	3755.1	3670.8	3654.4	3503.3	3466.2	3375.2	3280.5	3267.8	3214.4	3181.0	3173.1
65°	4586.0	4465.3	4374.8	4209.7	4098.1	3968.2	3823.7	3718.1	3609.5	3554.9	3482.6
66°	4648.0	4600.0	4509.0	4412.5	4249.8	4107.8	3943.9	3829.8	3707.8	3611.9	3550.0
67.5°	4542.3	4516.9	4484.7	4419.1	4317.2	4184.9	4029.5	3883.8	3736.9	3624.0	3525.1
70°	3839.5	3867.4	3903.8	3886.9	3828.6	3777.0	3639.8	3558.5	3448.0	3299.9	3239.2
72.5°	2898.1	2972.8	2947.3	2851.4	2806.5	2770.7	2720.9	2666.3	2507.9	2489.7	2418.1
75°	1864.5	1839.6	1856.0	1739.5	1660.0	1627.2	1508.9	1460.3	1341.3	1264.3	1205.4
77.5°	982.6	934.1	896.5	793.9	720.4	677.3	619.7	551.7	447.3	441.2	346.0
80°	455.8	418.8	384.8	349.0	313.2	265.8	230.6	188.2	166.3	142.6	132.9
82.5°	309.5	285.9	265.2	241.6	214.3	181.5	156.6	132.9	113.5	102.0	92.9
85°	280.4	254.9	231.9	202.1	173.6	146.3	119.6	98.9	80.7	70.4	64.3
87.5°	272.5	241.0	216.7	184.5	156.6	128.7	103.2	80.1	62.5	51.0	43.7
90°	42.6	45.2	35.1	34.1	19.7	23.0	19.3	15.1	15.7	13.9	14.5
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



REPORT NUMBER: P226946

CATALOG NUMBER: IST-AF-800-LED-E1-SL3-8030-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-SL3-8030-ULG

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5
2.5°	1086.4	1084.6	1086.4	1085.8	1083.4	1084.0	1084.6	1082.2	1081.0	1081.0	1080.4
5°	1076.7	1075.5	1076.7	1076.1	1072.5	1071.9	1071.9	1070.0	1067.6	1065.8	1064.6
7.5°	1053.6	1054.9	1054.3	1052.4	1050.6	1050.6	1048.8	1044.5	1042.1	1039.7	1037.3
10°	1027.6	1027.6	1028.2	1027.6	1024.5	1023.3	1020.9	1018.4	1019.1	1013.0	1008.1
12.5°	1004.5	1004.5	1003.9	1002.7	1000.8	1000.2	1000.2	993.0	991.1	989.3	983.9
15°	982.6	983.9	983.9	983.9	980.8	980.8	977.8	972.9	972.9	967.5	962.0
17.5°	965.6	967.5	966.9	967.5	968.1	964.4	959.0	955.9	952.3	949.3	942.0
20°	951.1	952.3	952.9	952.9	951.1	948.6	943.8	938.9	936.5	930.4	921.3
22.5°	937.7	940.2	940.8	940.8	938.3	936.5	931.7	924.4	919.5	912.2	903.7
25°	932.3	935.3	933.5	934.7	932.3	928.0	921.3	915.3	908.0	898.9	889.8
27.5°	934.1	938.3	937.1	936.5	933.5	930.4	921.9	914.7	906.2	895.2	883.7
30°	945.0	952.3	949.3	946.8	946.2	938.9	931.0	920.7	911.0	898.3	884.9
32.5°	965.6	969.3	969.9	968.1	965.0	959.0	948.0	934.7	923.8	908.6	892.8
35°	999.6	1003.3	1002.1	1002.1	999.0	989.3	976.0	962.6	947.4	930.4	914.1
37.5°	1047.0	1053.6	1052.4	1050.0	1046.4	1034.8	1024.5	1008.1	991.1	968.7	949.9
40°	1106.5	1116.8	1125.9	1124.1	1115.6	1105.2	1095.5	1076.7	1059.7	1034.8	1014.2
42.5°	1186.6	1200.5	1212.1	1220.6	1216.9	1203.6	1186.6	1178.7	1154.4	1128.9	1107.7
45°	1289.1	1318.3	1328.6	1338.9	1338.9	1330.4	1326.8	1311.0	1285.5	1251.5	1231.5
47.5°	1424.5	1463.3	1474.9	1492.5	1502.8	1493.7	1487.0	1460.3	1443.3	1396.6	1391.7
50°	1589.0	1627.8	1659.4	1680.0	1677.0	1684.9	1669.1	1653.9	1630.2	1592.0	1578.7
52.5°	1799.0	1829.9	1858.5	1870.6	1883.3	1881.5	1877.9	1867.6	1837.8	1817.2	1783.2
55°	2014.4	2039.9	2074.5	2094.6	2110.9	2107.9	2093.9	2069.1	2074.5	2031.4	2012.6
57.5°	2259.6	2287.6	2325.2	2344.0	2351.3	2388.3	2379.2	2376.2	2365.9	2350.7	2331.3
60°	2681.5	2689.4	2720.3	2767.7	2825.9	2814.4	2829.0	2838.7	2845.9	2812.0	2809.5
62.5°	3184.0	3193.7	3220.4	3230.1	3238.6	3239.9	3220.4	3220.4	3187.0	3143.3	3109.4
65°	3458.4	3438.3	3420.1	3409.8	3387.3	3367.3	3338.2	3298.7	3242.3	3174.9	3114.2
66°	3497.8	3457.1	3433.5	3407.4	3371.6	3334.5	3299.9	3245.9	3179.8	3099.6	3019.5
67.5°	3459.6	3403.7	3348.5	3310.3	3260.5	3193.7	3133.0	3069.9	3007.4	2897.5	2822.9
70°	3110.6	3043.8	2983.1	2899.4	2820.5	2754.9	2650.5	2540.7	2450.2	2334.9	2261.5
72.5°	2310.0	2231.1	2152.2	2034.5	1919.8	1902.8	1771.7	1642.4	1573.2	1480.3	1405.7
75°	1141.0	1041.5	900.1	837.0	745.3	700.4	675.5	582.1	559.6	468.0	466.7
77.5°	322.3	276.8	245.8	214.3	200.9	191.2	157.8	151.1	137.2	134.7	126.9
80°	122.0	115.3	112.3	109.2	106.2	104.4	103.2	98.3	95.9	92.3	90.4
82.5°	88.0	85.6	80.1	78.3	75.9	72.2	71.6	68.6	66.8	63.1	61.9
85°	59.5	56.4	53.4	50.4	49.2	48.6	46.7	45.5	44.3	42.5	41.9
87.5°	40.1	37.0	33.4	32.2	31.6	32.2	32.8	31.6	31.0	29.7	29.1
90°	13.9	15.7	15.1	15.1	16.3	14.9	14.7	15.1	14.3	14.1	13.3
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



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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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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	82°	
1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	110°	116.9
1079.1	1077.3	1077.9	1075.5	1074.9	1076.1	1076.7	1076.7	1074.9	1064.0	1051.2	112.5°	147.6
1063.4	1059.7	1059.1	1057.3	1054.3	1057.9	1056.1	1053.0	1049.4	1036.7	1011.8	115°	177.6
1034.2	1031.8	1028.8	1026.3	1024.5	1023.3	1022.7	1019.7	1013.0	989.3	947.4	117.5°	208.6
1006.3	1003.3	999.6	994.2	991.7	988.1	988.1	980.8	976.0	946.2	884.3	120°	243.6
979.0	973.5	971.7	968.1	961.4	958.4	954.1	946.8	939.5	903.7	822.4	122.5°	276.6
958.4	952.9	945.0	942.6	935.3	928.6	923.2	913.4	905.6	858.2	757.5	125°	310.0
935.9	931.7	923.2	917.7	909.8	901.9	892.8	880.7	875.2	815.1	695.6	127.5°	345.3
917.7	908.0	898.3	893.4	883.7	874.6	865.5	850.9	840.0	772.6	630.0	130°	379.6
896.5	888.0	877.6	869.1	855.8	845.5	835.2	820.0	806.6	729.5	563.8	132.5°	414.0
881.9	869.7	858.8	849.1	833.9	821.8	807.2	790.8	777.5	688.3	491.0	135°	449.1
873.4	861.2	847.3	835.2	817.5	803.6	787.8	769.6	752.6	654.9	422.4	137.5°	479.5
871.0	856.4	841.8	826.7	808.4	790.8	772.0	753.8	732.0	622.7	347.8	140°	507.5
878.2	860.6	844.3	826.0	804.8	784.8	766.0	742.3	720.4	594.8	274.3	142.5°	533.7
898.3	877.0	858.2	838.2	813.9	792.1	769.6	742.9	718.6	575.4	210.0	145°	558.9
929.8	909.8	888.0	867.9	840.0	815.7	790.8	762.3	733.2	567.5	158.4	147.5°	583.9
993.6	966.9	944.4	923.2	891.0	866.1	837.6	803.0	770.2	574.8	132.3	150°	605.1
1082.8	1049.4	1028.8	1009.9	969.9	942.6	909.8	870.4	833.3	595.4	116.5	152.5°	621.5
1206.0	1180.5	1143.5	1114.3	1073.7	1043.3	1006.9	959.6	918.3	624.5	108.6	155°	637.4
1360.2	1326.8	1290.4	1260.6	1216.3	1163.5	1125.3	1068.2	1021.5	670.1	105.0	157.5°	650.0
1548.9	1508.9	1459.7	1434.8	1373.5	1332.2	1281.3	1220.0	1160.5	740.5	106.8	160°	660.3
1754.1	1711.0	1672.7	1625.4	1569.5	1523.4	1474.9	1409.9	1335.3	874.0	114.1	162.5°	668.6
1970.7	1942.8	1906.4	1845.1	1814.8	1756.5	1694.6	1623.0	1568.9	1047.6	131.7	165°	678.6
2286.3	2256.0	2251.8	2191.7	2145.5	2092.7	2044.2	1984.7	1921.0	1355.9	173.0	167.5°	688.0
2771.9	2740.3	2704.5	2657.8	2603.2	2537.6	2477.5	2397.4	2326.4	1664.8	192.4	170°	695.4
3059.6	3001.3	2937.0	2866.0	2786.5	2705.1	2624.4	2521.8	2418.7	1683.7	173.6	172.5°	695.4
3035.3	2963.1	2881.1	2784.6	2700.9	2600.7	2514.0	2381.6	2287.6	1499.1	141.4	175°	694.6
2945.5	2846.6	2769.5	2680.9	2575.9	2486.0	2394.4	2263.9	2156.5	1374.7	129.3	177.5°	698.9
2715.5	2631.1	2524.3	2439.3	2361.6	2254.2	2168.0	2046.0	1972.0	1192.0	115.9	180°	700.0
2170.4	2053.9	1963.5	1897.3	1809.3	1712.2	1635.7	1533.1	1467.6	789.0	100.1		
1264.3	1235.1	1133.8	1076.7	1023.3	944.4	883.7	834.5	748.4	382.4	88.6		
389.7	362.3	358.7	304.7	322.3	275.6	268.3	244.0	244.0	146.9	69.8		
124.4	122.0	117.1	110.5	108.0	108.0	105.0	104.4	99.5	78.9	52.2		
88.0	86.2	84.4	82.5	81.3	81.9	79.5	78.3	77.1	57.1	41.3		
60.7	58.9	55.2	55.2	54.0	53.4	54.0	51.6	51.0	40.1	34.6		
41.3	40.7	40.1	39.5	38.8	38.2	37.6	35.8	34.6	27.9	24.3		
27.3	23.1	22.5	19.4	18.8	18.2	17.0	18.2	20.0	20.0	15.8		
13.7	12.9	13.3	13.1	11.9	12.5	12.5	11.2	11.2	13.1	14.5		
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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 IST-AF-800-LED-E1-SL3-8030-ULG

REPORT NUMBER: P226946
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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°	1075.5	1075.5
147.4	147.2	147.0	147.0	147.0	147.0	147.0	147.0	147.0	149.0	2.5°	1040.3	1030.6
177.4	177.2	177.0	177.2	177.4	177.6	177.8	178.0	177.0	179.0	5°	985.1	963.2
208.4	208.2	208.0	208.2	208.4	208.6	208.8	209.0	208.0	210.0	7.5°	910.4	867.9
243.4	243.2	243.0	243.0	243.0	243.0	243.0	243.0	243.0	245.0	10°	824.8	763.5
276.4	276.2	276.0	276.2	276.4	276.6	276.8	277.0	276.0	278.0	12.5°	736.2	657.9
310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°	653.7	549.9
345.2	345.1	345.0	345.4	345.8	346.2	346.6	347.0	345.0	346.0	17.5°	566.9	438.8
379.4	379.2	379.0	379.2	379.4	379.6	379.8	380.0	379.0	381.0	20°	483.7	331.4
414.0	414.0	414.0	414.2	414.4	414.6	414.8	415.0	414.0	414.0	22.5°	389.7	232.5
449.4	449.7	450.0	450.2	450.4	450.6	450.8	451.0	450.0	447.0	25°	285.9	168.7
480.0	480.5	481.0	481.2	481.4	481.6	481.8	482.0	481.0	476.0	27.5°	203.9	134.7
508.0	508.5	509.0	509.4	509.8	510.2	510.6	511.0	509.0	504.0	30°	152.3	113.5
533.8	533.9	534.0	534.4	534.8	535.2	535.6	536.0	534.0	533.0	32.5°	122.0	98.3
558.6	558.3	558.0	558.4	558.8	559.2	559.6	560.0	558.0	561.0	35°	103.8	89.2
583.6	583.3	583.0	583.4	583.8	584.2	584.6	585.0	583.0	586.0	37.5°	92.9	83.2
605.4	605.7	606.0	606.8	607.6	608.4	609.2	610.0	606.0	603.0	40°	86.8	80.1
622.0	622.5	623.0	624.0	625.0	626.0	627.0	628.0	623.0	618.0	42.5°	83.2	77.1
637.6	637.8	638.0	638.6	639.2	639.8	640.4	641.0	638.0	636.0	45°	81.3	75.3
650.0	650.0	650.0	651.0	652.0	653.0	654.0	655.0	650.0	650.0	47.5°	80.1	72.8
660.2	660.1	660.0	661.2	662.4	663.6	664.8	666.0	660.0	661.0	50°	78.9	72.8
668.4	668.2	668.0	669.2	670.4	671.6	672.8	674.0	668.0	670.0	52.5°	79.5	74.0
678.4	678.2	678.0	678.8	679.6	680.4	681.2	682.0	678.0	680.0	55°	82.5	74.0
688.0	688.0	688.0	689.2	690.4	691.6	692.8	694.0	688.0	688.0	57.5°	87.4	74.0
695.6	695.8	696.0	697.0	698.0	699.0	700.0	701.0	696.0	694.0	60°	91.0	75.3
695.6	695.8	696.0	697.0	698.0	699.0	700.0	701.0	696.0	694.0	62.5°	92.3	77.7
694.4	694.2	694.0	695.0	696.0	697.0	698.0	699.0	694.0	696.0	65°	91.0	78.9
698.6	698.3	698.0	698.8	699.6	700.4	701.2	702.0	698.0	701.0	66°	89.8	78.9
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	88.0	77.7
										70°	83.8	72.8
										72.5°	75.3	65.5
										75°	64.3	52.8
										77.5°	52.2	42.5
										80°	38.8	32.2
										82.5°	28.5	24.9
										85°	20.0	17.6
										87.5°	12.1	10.9
										90°	12.0	10.0
										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°
1075.5	1075.5	1075.5	1075.5	1075.5	1075.5
1023.9	1023.3	1008.1	1005.1	994.8	1000.2
937.1	926.8	899.5	894.0	882.5	879.5
833.3	804.8	783.0	758.7	735.6	747.1
711.9	664.0	616.0	584.5	571.7	567.5
596.6	510.4	450.4	388.4	366.6	374.5
457.0	358.7	278.6	242.8	222.1	218.5
322.3	230.0	193.0	183.9	179.7	179.7
218.5	175.4	161.4	157.2	157.2	157.8
166.3	147.5	141.4	142.0	144.5	145.1
137.8	130.5	127.5	131.7	136.6	137.2
119.0	117.1	117.7	123.2	128.1	128.7
104.4	106.2	108.6	113.5	117.7	119.0
94.1	97.1	98.9	102.0	104.4	105.0
86.8	90.4	89.8	91.6	93.5	94.1
82.5	84.4	82.5	83.8	83.8	85.0
78.9	79.5	76.5	77.1	78.3	78.3
75.3	74.7	71.6	72.8	74.7	75.3
71.6	70.4	68.0	70.4	73.4	74.0
68.6	67.4	66.2	69.2	72.8	73.4
67.4	66.2	64.9	69.2	72.8	73.4
67.4	66.2	64.9	68.0	71.6	72.2
68.0	66.8	64.3	67.4	69.8	70.4
68.6	67.4	63.1	64.9	66.2	66.8
68.6	66.2	61.9	62.5	62.5	63.1
67.4	64.3	59.5	59.5	58.9	58.9
67.4	61.9	57.1	55.8	54.6	54.6
66.8	61.3	56.4	54.6	52.8	52.8
65.5	60.1	55.2	52.8	51.0	51.0
61.3	57.7	52.2	49.8	47.9	47.3
54.6	52.8	48.6	46.7	44.9	44.3
46.1	46.7	44.3	43.1	41.3	40.7
38.8	40.1	38.8	38.2	37.0	36.4
31.0	33.4	32.2	32.2	32.8	31.6
23.7	26.7	25.5	26.7	27.9	26.1
16.4	19.4	19.4	20.0	20.6	19.4
10.3	12.7	12.1	12.7	12.7	12.1
9.4	12.2	10.4	10.6	8.0	7.4
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)