

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: P226818

Luminaire Tested: **IST-AF-800-LED-E1-SL2-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226818
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-800-LED-E1-SL2-7050-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) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6686.3 lumens
Efficiency: N/A
Efficacy: 111.1 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

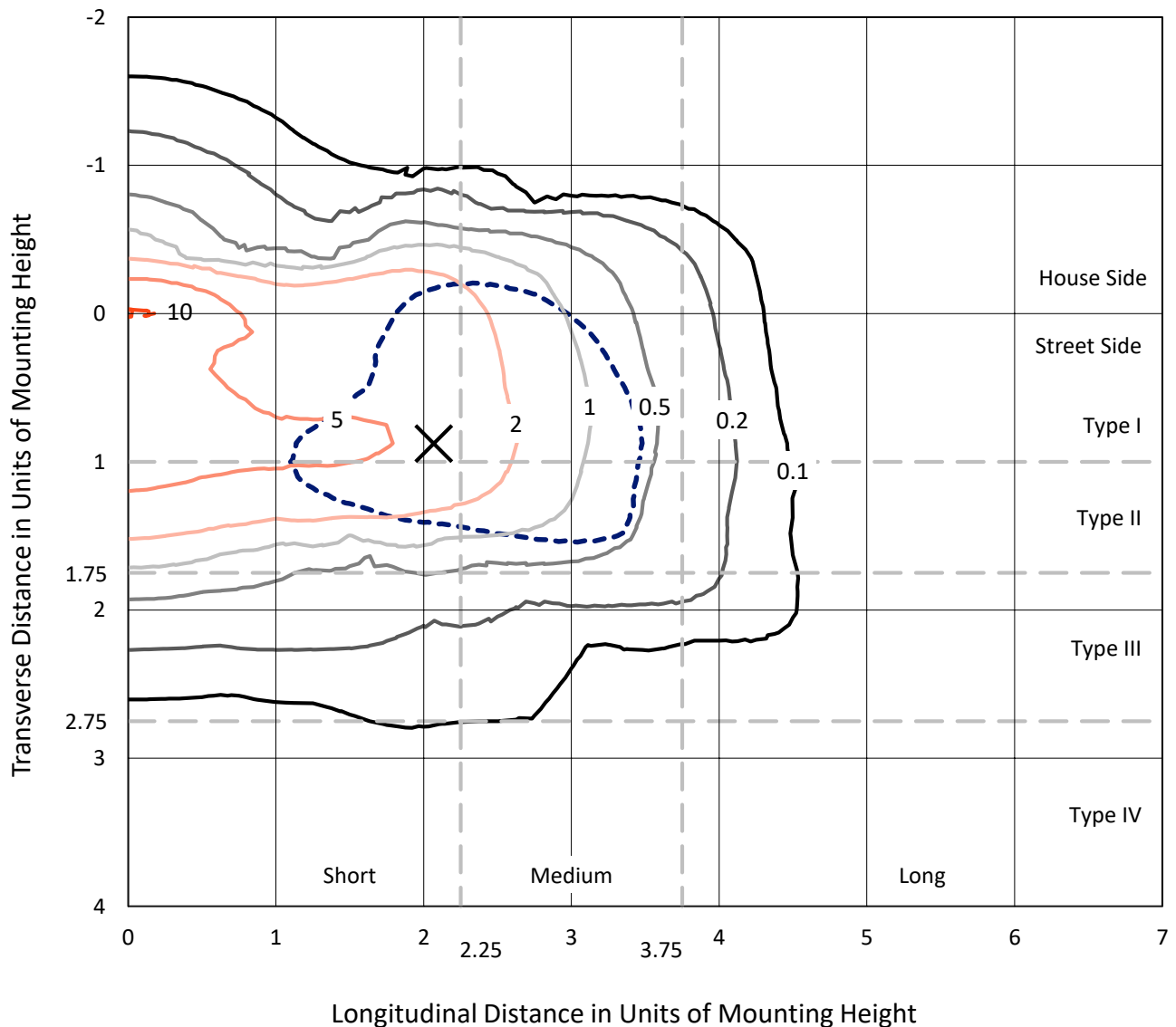


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

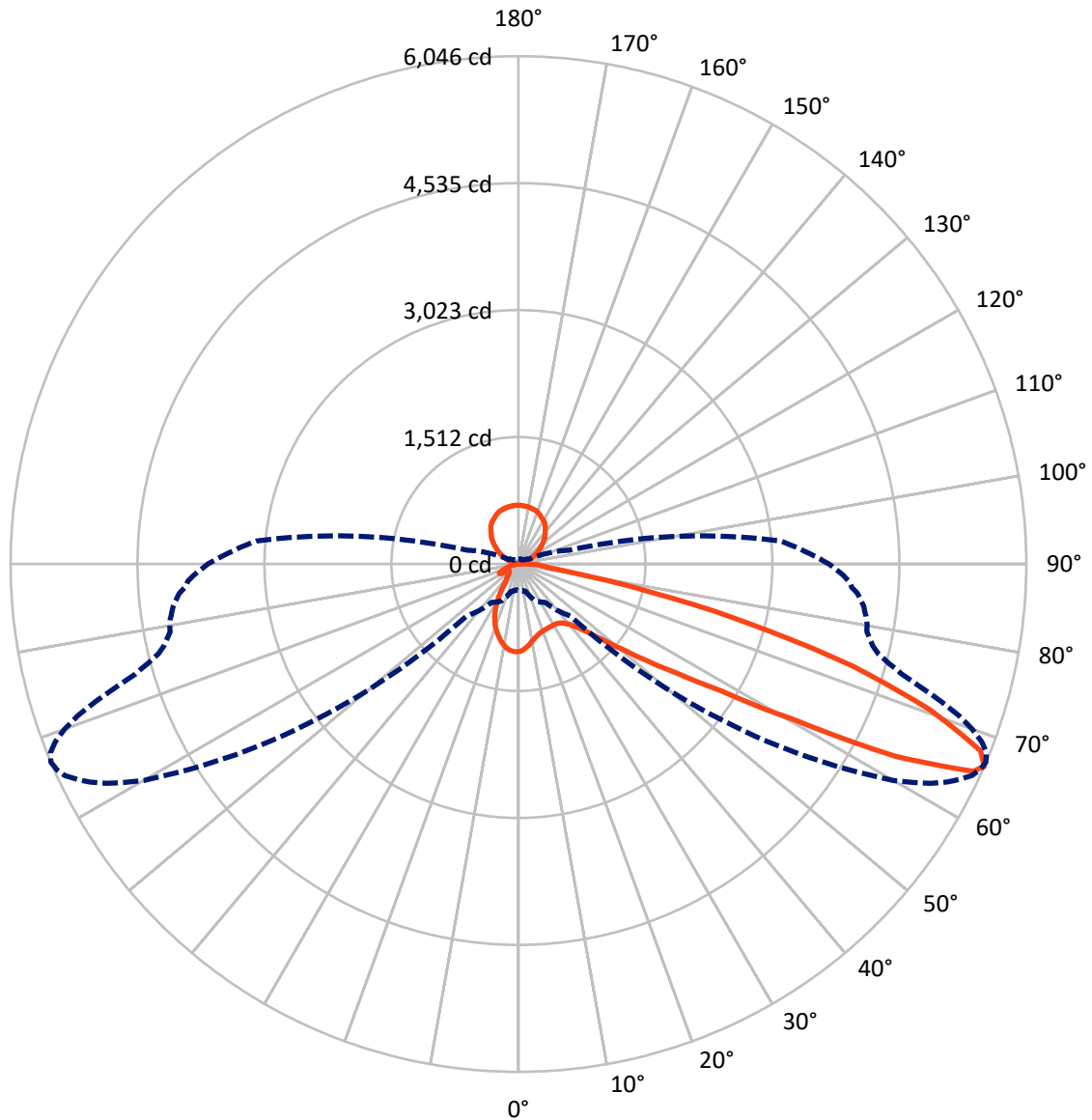


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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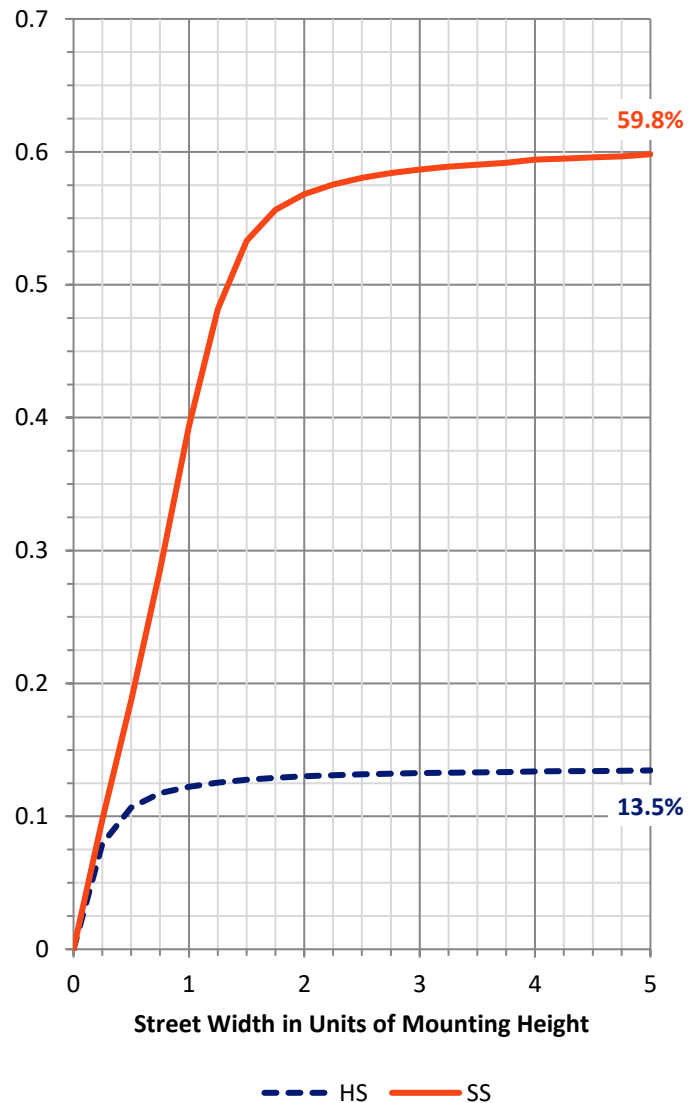
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	914.5	867.9	1782.4
	% Fixture	13.7	13.0	26.7
Street Side	Lumens	4034.8	869.0	4903.8
	% Fixture	60.3	13.0	73.3
Total	Lumens	4949.3	1736.9	6686.3
	% Fixture	74.0	26.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	1.4
10°-20°	215.1	3.2
20°-30°	294.9	4.4
30°-40°	421.3	6.3
40°-50°	683.1	10.2
50°-60°	1082.3	16.2
60°-70°	1371.5	20.5
70°-80°	681.8	10.2
80°-90°	109.0	1.6
90°-100°	11.1	0.2
100°-110°	57.4	0.9
110°-120°	166.1	2.5
120°-130°	273.2	4.1
130°-140°	336.8	5.0
140°-150°	344.6	5.2
150°-160°	290.3	4.3
160°-170°	191.2	2.9
170°-180°	66.3	1.0
0°-90°	4949.3	74.0
0°-180°	6686.3	100.0



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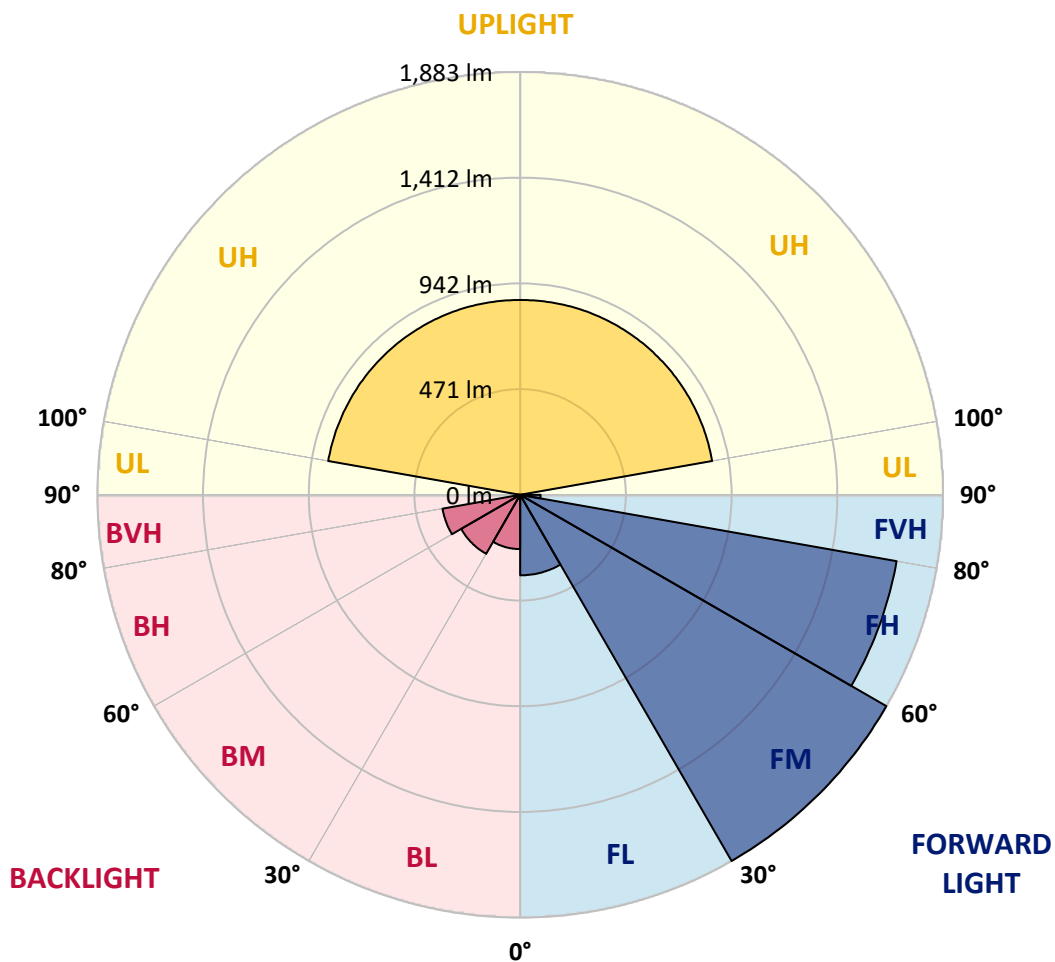
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	358.6	5.4			
FM (30°-60°)	1883.1	28.2			
FH (60°-80°)	1702.1	25.5			G1/1800
FVH (80°-90°)	91.1	1.4			G1/100
BL (0°-30°)	241.7	3.6	B1/500		
BM (30°-60°)	303.6	4.5	B1/1000		
BH (60°-80°)	351.2	5.3	B1/500		G1/500
BVH (80°-90°)	17.9	0.3			G1/100
UL (90°-100°)	11.1	0.2		U2/50	
UH (100°-180°)	867.9	13.0		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°	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9
2.5°	968.3	970.5	983.2	989.9	999.5	1002.5	1013.7	1018.1	1021.9	1021.1	1021.1
5°	881.3	888.0	893.9	907.3	921.5	938.6	960.1	976.5	979.5	983.2	985.4
7.5°	815.1	819.6	830.0	839.7	857.5	881.3	911.8	932.6	937.1	938.6	943.8
10°	768.3	771.2	780.2	792.8	813.6	836.7	868.7	890.2	896.9	899.9	904.4
12.5°	731.8	736.3	744.5	757.8	780.2	804.0	837.4	859.0	863.4	867.2	873.9
15°	708.8	711.7	719.2	734.0	754.1	777.9	810.6	836.7	839.7	843.4	849.3
17.5°	704.3	706.5	711.0	722.1	737.8	760.8	794.3	815.9	821.1	826.3	832.2
20°	722.1	723.6	725.1	726.6	735.5	750.4	783.1	806.2	810.6	815.1	822.5
22.5°	760.8	763.0	759.3	754.1	747.4	750.4	777.9	801.7	804.7	809.2	815.1
25°	827.8	825.5	814.4	806.2	782.4	763.0	779.4	799.5	803.2	807.7	814.4
27.5°	906.6	903.6	896.9	874.6	835.2	795.8	788.3	803.2	805.4	809.2	815.1
30°	991.4	992.1	986.2	961.6	911.0	844.9	808.4	812.1	813.6	816.6	820.3
32.5°	1068.0	1079.1	1078.4	1076.9	1004.8	911.0	847.1	832.2	830.0	832.2	833.7
35°	1156.5	1158.7	1179.5	1189.9	1131.2	1007.7	903.6	870.9	862.0	862.7	861.2
37.5°	1251.7	1254.6	1290.3	1308.2	1262.8	1117.8	978.7	928.2	920.0	911.8	905.8
40°	1390.0	1401.9	1420.5	1440.6	1418.3	1265.8	1077.6	1009.2	988.4	986.9	975.0
42.5°	1596.7	1593.0	1584.1	1600.5	1573.7	1431.6	1197.4	1123.7	1108.1	1087.3	1070.9
45°	1799.8	1808.0	1769.3	1776.7	1778.2	1623.5	1370.7	1267.3	1259.1	1234.6	1216.7
47.5°	1936.6	1927.7	1875.6	1913.6	2006.5	1847.4	1571.5	1462.9	1445.8	1433.1	1422.0
50°	1944.1	1936.6	1903.2	1970.1	2168.7	2245.3	1851.1	1724.7	1700.1	1677.8	1671.1
52.5°	1762.6	1752.2	1763.3	1899.4	2227.4	2578.4	2246.0	2049.7	2029.6	2011.0	1985.0
55°	1439.1	1451.0	1503.8	1699.4	2137.4	2814.9	3023.2	2551.7	2465.4	2464.7	2400.7
57.5°	1074.7	1062.8	1102.2	1285.9	1909.9	2899.0	3737.2	3620.4	3427.8	3297.6	3140.7
60°	725.1	728.1	764.5	859.0	1329.0	2807.5	4215.4	4622.2	4554.5	4527.0	4484.6
62.5°	502.7	507.2	540.7	629.2	777.2	2258.7	4355.2	5183.7	5304.9	5405.3	5380.8
65°	351.8	352.5	386.0	522.8	582.3	1160.2	4046.5	5258.0	5438.8	5611.3	5766.0
66°	310.1	310.9	338.4	486.4	558.5	875.3	3778.8	5154.7	5360.7	5561.5	5721.4
67.5°	265.5	270.0	291.5	413.5	535.5	675.3	3121.4	4846.0	5061.7	5282.6	5493.8
70°	182.2	183.7	203.0	335.4	501.3	592.7	1779.0	3783.3	4081.5	4469.7	4694.3
72.5°	130.1	128.7	130.9	207.5	514.6	589.0	934.8	2489.9	2907.2	3247.8	3491.0
75°	116.0	112.3	102.6	128.7	375.6	643.3	626.2	1465.9	1783.4	2093.5	2342.7
77.5°	103.4	97.4	92.2	98.9	185.9	606.1	562.2	839.7	1001.8	1233.1	1425.0
80°	78.8	75.1	78.1	85.5	111.6	557.8	558.5	558.5	602.4	678.3	754.1
82.5°	52.1	47.6	54.3	70.7	84.0	420.2	577.1	493.1	484.9	481.9	487.1
85°	32.7	28.3	37.9	52.8	64.7	219.4	592.0	520.6	482.7	446.2	409.8
87.5°	11.9	13.4	19.3	30.5	42.4	95.2	519.1	458.9	432.8	387.5	345.1
90°	8.0	7.2	10.7	16.9	17.7	24.8	86.6	135.2	84.1	46.3	39.1
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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CATALOG NUMBER: IST-AF-800-LED-E1-SL2-7050-ULG

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°	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9
2.5°	1021.9	1025.6	1027.1	1025.6	1026.3	1030.8	1029.3	1031.5	1031.5	1033.0	1033.0
5°	988.4	991.4	997.3	996.6	1002.5	1004.8	1007.0	1010.0	1013.7	1015.9	1020.4
7.5°	949.0	954.9	960.1	963.1	966.8	974.3	976.5	983.2	989.1	995.1	999.5
10°	911.0	919.2	925.2	927.4	935.6	939.3	947.5	952.7	960.1	967.6	974.3
12.5°	879.1	886.5	889.5	896.9	904.4	911.8	915.5	925.2	932.6	942.3	951.2
15°	855.3	862.7	868.7	873.9	881.3	888.7	894.7	904.4	913.3	922.9	931.1
17.5°	840.4	844.9	852.3	856.8	865.7	874.6	881.3	892.5	902.1	910.3	921.5
20°	829.2	834.4	841.1	847.8	856.0	867.2	873.1	885.0	895.4	905.1	915.5
22.5°	823.3	828.5	835.2	841.9	850.8	859.7	869.4	879.8	891.0	901.4	911.8
25°	821.1	825.5	831.5	838.2	847.8	857.5	865.7	877.6	887.2	898.4	911.0
27.5°	821.8	824.8	831.5	837.4	847.1	856.0	864.2	876.1	887.2	897.7	910.3
30°	824.8	827.0	833.7	838.9	847.1	856.0	863.4	876.1	885.8	896.9	910.3
32.5°	835.2	838.2	841.1	844.9	852.3	859.0	867.9	879.1	888.0	899.1	910.3
35°	859.7	857.5	859.7	861.2	866.4	873.1	879.8	889.5	897.7	907.3	919.2
37.5°	898.4	893.9	895.4	894.7	894.7	899.1	905.8	912.5	919.2	928.9	940.8
40°	969.8	958.6	955.7	947.5	945.3	949.0	953.4	954.2	962.4	975.0	980.2
42.5°	1062.0	1047.1	1049.4	1036.0	1032.3	1027.8	1033.8	1030.0	1035.2	1043.4	1054.6
45°	1207.8	1193.7	1178.8	1157.2	1161.7	1145.3	1140.9	1142.3	1141.6	1144.6	1158.0
47.5°	1381.8	1363.2	1353.6	1345.4	1329.8	1320.1	1307.4	1288.9	1293.3	1299.3	1311.2
50°	1636.2	1630.2	1611.6	1584.8	1581.1	1567.0	1563.3	1546.9	1541.0	1540.2	1539.5
52.5°	1976.0	1937.4	1929.9	1904.6	1885.3	1871.9	1867.5	1844.4	1821.3	1834.7	1833.2
55°	2390.3	2358.3	2317.4	2295.1	2279.5	2247.5	2239.3	2210.3	2196.9	2189.5	2170.9
57.5°	3086.4	2974.1	2890.1	2848.4	2789.7	2730.2	2709.3	2649.8	2603.7	2571.0	2573.2
60°	4300.1	4100.1	3864.3	3758.7	3514.0	3478.3	3310.3	3269.4	3168.2	3101.3	3062.6
62.5°	5363.6	5309.4	5196.3	5042.4	4796.9	4514.3	4387.2	4134.3	3936.5	3850.2	3730.5
65°	5871.6	5948.2	5979.4	5950.4	5852.3	5679.7	5528.0	5281.1	4949.4	4762.0	4529.2
66°	5845.6	5959.4	6016.6	6046.4	6010.7	5908.8	5749.6	5546.6	5290.0	5004.4	4743.4
67.5°	5655.2	5766.0	5845.6	5936.3	5936.3	5904.3	5839.6	5704.3	5522.8	5273.7	5039.4
70°	4877.3	5027.5	5168.1	5195.6	5272.9	5249.1	5300.4	5214.2	5171.0	5066.9	4941.2
72.5°	3799.6	3925.3	4045.8	4166.3	4146.2	4120.2	4115.0	4132.8	4045.0	4076.3	4043.6
75°	2527.1	2743.6	2867.0	2855.1	2863.3	2870.0	2814.9	2692.2	2787.4	2666.9	2707.1
77.5°	1535.8	1636.2	1669.6	1632.4	1584.1	1521.6	1421.2	1362.5	1278.4	1285.1	1229.4
80°	805.4	818.1	791.3	716.2	675.3	638.1	523.6	472.3	424.7	406.8	366.6
82.5°	461.8	431.4	398.6	373.3	325.0	292.3	247.7	219.4	188.9	162.1	152.5
85°	374.1	333.2	302.7	274.4	241.7	212.7	175.5	146.5	124.2	107.8	104.1
87.5°	308.6	280.4	249.1	222.4	190.4	160.6	124.2	96.7	76.6	61.7	57.3
90°	36.3	46.2	35.8	23.9	31.3	20.9	15.7	16.4	14.9	14.9	15.7
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



REPORT NUMBER: P226818

CATALOG NUMBER: IST-AF-800-LED-E1-SL2-7050-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°	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9
2.5°	1035.2	1035.2	1036.7	1038.2	1039.0	1039.0	1039.0	1040.5	1041.2	1039.0	1041.2
5°	1022.6	1026.3	1029.3	1031.5	1032.3	1034.5	1036.7	1038.2	1040.5	1040.5	1041.9
7.5°	1005.5	1012.2	1015.9	1019.6	1023.3	1027.1	1031.5	1034.5	1036.0	1039.0	1041.2
10°	983.9	992.1	999.5	1005.5	1010.7	1018.1	1024.1	1028.6	1035.2	1036.0	1041.2
12.5°	960.9	972.8	978.7	989.9	997.3	1008.5	1014.4	1021.1	1028.6	1032.3	1038.2
15°	944.5	954.9	966.1	976.5	988.4	1001.8	1009.2	1018.1	1028.6	1036.7	1044.2
17.5°	931.9	946.0	958.6	972.0	986.9	1001.0	1012.2	1021.9	1035.2	1039.7	1047.1
20°	928.2	943.8	956.4	970.5	986.2	1004.8	1018.1	1028.6	1041.9	1049.4	1056.1
22.5°	926.7	941.5	956.4	973.5	990.6	1010.0	1024.1	1037.5	1050.9	1057.6	1062.8
25°	925.2	940.8	957.2	976.5	995.1	1015.2	1031.5	1044.2	1056.8	1063.5	1068.0
27.5°	925.2	941.5	959.4	978.7	998.8	1021.1	1036.7	1048.6	1059.8	1065.7	1067.2
30°	924.4	941.5	958.6	980.2	1001.8	1024.8	1041.9	1053.1	1062.8	1066.5	1065.0
32.5°	925.9	943.8	962.4	983.9	1006.2	1028.6	1046.4	1059.0	1064.3	1063.5	1062.8
35°	933.4	949.7	971.3	992.9	1015.9	1036.7	1053.8	1062.8	1067.2	1065.7	1062.0
37.5°	953.4	969.8	991.4	1015.2	1033.0	1056.8	1072.4	1079.1	1079.9	1075.4	1066.5
40°	995.1	1011.4	1030.8	1056.8	1078.4	1094.7	1109.6	1117.1	1112.6	1104.4	1094.7
42.5°	1061.3	1082.1	1105.2	1126.0	1151.3	1173.6	1177.3	1181.8	1174.3	1158.7	1146.8
45°	1167.6	1180.3	1210.0	1225.6	1258.4	1269.5	1277.7	1279.9	1263.6	1250.9	1230.1
47.5°	1320.8	1345.4	1366.2	1381.1	1404.9	1419.7	1436.1	1428.7	1416.0	1394.5	1366.9
50°	1561.8	1577.4	1604.2	1631.0	1656.2	1666.7	1666.7	1659.2	1651.0	1609.4	1575.9
52.5°	1857.8	1859.3	1898.0	1929.9	1951.5	1935.9	1954.5	1935.9	1930.7	1901.7	1874.2
55°	2200.6	2186.5	2233.4	2261.6	2281.0	2299.6	2295.8	2293.6	2274.3	2241.5	2208.1
57.5°	2526.4	2567.3	2589.6	2631.3	2640.9	2653.6	2648.4	2640.9	2629.8	2611.2	2596.3
60°	2996.4	3023.9	3044.0	3052.2	3079.7	3083.4	3102.0	3071.5	3079.0	3057.4	3010.5
62.5°	3636.0	3606.3	3621.9	3621.9	3613.7	3584.7	3600.3	3612.2	3592.1	3574.3	3566.8
65°	4352.2	4256.3	4164.0	4148.4	4106.0	4096.4	4084.5	4054.7	4042.1	4010.8	3985.6
66°	4566.4	4417.6	4330.6	4277.1	4225.8	4214.6	4198.3	4167.0	4141.7	4097.9	4055.5
67.5°	4806.6	4614.7	4483.8	4408.0	4344.8	4303.1	4270.4	4225.8	4185.6	4120.2	4052.5
70°	4791.0	4632.6	4474.9	4359.6	4264.4	4178.9	4128.3	4032.4	3950.6	3856.9	3779.5
72.5°	4025.7	3997.4	3906.0	3841.3	3724.5	3679.1	3545.3	3484.3	3371.2	3250.0	3212.8
75°	2798.6	2687.8	2640.9	2614.9	2563.6	2422.3	2330.0	2350.1	2217.7	2099.5	2031.8
77.5°	1223.4	1245.7	1116.3	1058.3	1013.7	937.1	865.7	816.6	788.3	769.7	685.7
80°	338.4	295.3	291.5	270.7	266.2	237.2	241.0	220.1	206.0	203.0	196.3
82.5°	148.0	145.0	140.6	138.3	136.1	133.1	129.4	128.7	124.2	120.5	121.2
85°	98.2	97.4	95.2	93.0	89.2	84.0	80.3	77.3	78.1	74.4	73.6
87.5°	57.3	55.8	55.0	52.1	51.3	46.9	47.6	43.9	43.1	42.4	40.2
90°	17.2	17.7	19.8	18.8	15.6	22.1	19.7	18.0	18.6	16.1	15.9
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: P226818
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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-800-LED-E1-SL2-7050-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	86°	
1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	1041.9	110°	116.2
1043.4	1044.9	1045.7	1044.9	1046.4	1045.7	1046.4	1045.7	1041.9	1041.2	1040.5	112.5°	147.0
1044.9	1047.9	1048.6	1049.4	1047.9	1049.4	1046.4	1034.5	1021.1	1006.2	994.3	115°	177.2
1046.4	1050.1	1052.4	1052.4	1053.1	1051.6	1040.5	1014.4	983.2	952.0	928.2	117.5°	208.2
1045.7	1050.9	1053.1	1053.8	1053.8	1050.9	1024.1	982.4	934.8	887.2	838.9	120°	243.0
1043.4	1047.9	1051.6	1051.6	1052.4	1041.9	1000.3	940.8	873.1	801.7	737.0	122.5°	276.2
1047.9	1052.4	1052.4	1052.4	1051.6	1033.8	975.0	888.7	798.0	701.3	605.4	125°	310.0
1054.6	1056.8	1055.3	1055.3	1052.4	1025.6	946.7	837.4	718.4	590.5	456.6	127.5°	345.4
1060.5	1062.0	1061.3	1057.6	1053.8	1016.7	917.7	783.1	623.2	456.6	323.5	130°	379.2
1066.5	1068.0	1064.3	1058.3	1053.1	1004.8	882.8	714.0	515.4	312.4	214.2	132.5°	414.2
1067.2	1068.7	1062.0	1053.8	1046.4	986.9	840.4	640.3	397.1	202.3	167.3	135°	450.2
1066.5	1065.0	1053.8	1043.4	1035.2	965.3	793.5	548.9	264.8	152.5	145.8	137.5°	481.2
1061.3	1054.6	1045.7	1033.8	1021.9	941.5	746.7	447.0	167.3	132.4	132.4	140°	509.4
1053.8	1047.1	1036.0	1020.4	1007.0	918.5	693.1	342.9	133.9	122.0	123.5	142.5°	534.4
1050.9	1043.4	1027.1	1010.7	993.6	897.7	636.6	230.6	120.5	115.3	116.0	145°	558.4
1056.8	1044.2	1027.8	1009.2	989.1	879.8	577.9	160.6	113.8	107.8	109.3	147.5°	583.4
1076.9	1065.0	1045.7	1021.9	1000.3	869.4	515.4	133.1	107.1	101.9	101.9	150°	606.8
1125.2	1109.6	1083.6	1055.3	1029.3	876.1	459.6	121.2	101.9	96.7	96.7	152.5°	624.0
1203.3	1184.7	1154.2	1122.3	1088.0	908.8	396.4	116.8	98.2	90.7	89.2	155°	638.6
1337.2	1312.7	1272.5	1234.6	1193.7	965.3	332.4	113.8	93.7	87.0	84.0	157.5°	651.0
1547.7	1511.2	1463.6	1413.8	1364.0	1068.7	281.9	110.8	90.7	84.0	81.1	160°	661.2
1818.4	1793.8	1734.3	1668.9	1609.4	1274.7	252.9	108.6	88.5	80.3	78.1	162.5°	669.2
2163.5	2123.3	2076.4	2017.7	1947.0	1541.7	249.9	107.8	86.3	77.3	75.9	165°	678.8
2527.9	2512.3	2432.7	2396.2	2319.6	1897.2	304.2	109.3	84.8	75.1	72.9	167.5°	689.2
2943.6	2949.6	2875.2	2835.0	2771.8	2347.9	484.2	113.8	84.8	72.9	70.7	170°	697.0
3487.3	3496.9	3409.2	3361.6	3308.0	2852.9	760.8	121.2	87.0	70.7	68.4	172.5°	697.0
3932.7	3880.7	3824.2	3740.9	3673.2	3134.7	732.6	134.6	90.0	68.4	66.2	175°	695.0
3978.9	3941.7	3870.3	3780.3	3697.7	3136.2	639.6	139.1	90.7	67.7	65.4	177.5°	698.8
3972.9	3906.7	3825.7	3749.8	3668.7	3055.9	494.6	145.0	93.0	66.2	64.0	180°	700.0
3697.7	3604.8	3525.9	3421.1	3336.3	2734.6	304.2	144.3	90.0	61.7	60.2		
3049.2	3001.6	2907.9	2823.9	2735.4	2213.3	208.2	128.7	79.6	55.8	56.5		
1972.3	1918.0	1822.8	1775.2	1725.4	1416.0	162.1	104.9	67.7	49.8	52.1		
658.2	636.6	601.7	621.0	592.0	551.8	119.0	79.6	54.3	43.1	46.1		
197.1	192.6	199.3	187.4	198.6	168.1	78.1	55.8	41.6	37.2	40.9		
116.8	115.3	115.3	115.3	112.3	104.9	51.3	38.7	32.0	31.2	34.2		
71.4	69.9	70.7	69.9	71.4	64.0	35.0	26.8	23.8	23.1	27.5		
40.9	40.9	41.6	40.2	40.9	39.4	24.5	17.1	15.6	14.9	20.1		
16.7	16.7	14.4	13.7	14.4	17.4	15.7	14.2	11.5	10.7	14.7		
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		

'226818
 IST-AF-800-LED-E1-SL2-7050-ULG

REPORT NUMBER: P226818
 CATALOG NUMBER: IST-AF-80

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°	1041.9	1041.9
147.0	147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	2.5°	1034.5	1029.3
177.4	177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	5°	975.7	961.6
208.4	208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	7.5°	891.0	874.6
243.0	243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	10°	794.3	769.7
276.4	276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	12.5°	670.8	622.5
310.0	310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	15°	528.0	463.3
345.8	346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	17.5°	363.7	311.6
379.4	379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	20°	255.1	235.8
414.4	414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	22.5°	197.1	197.8
450.4	450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	25°	163.6	171.1
481.4	481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	27.5°	144.3	151.7
509.8	510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	30°	132.4	139.1
534.8	535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	32.5°	124.2	127.2
558.8	559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	35°	114.5	116.0
583.8	584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	37.5°	106.4	106.4
607.6	608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	40°	98.9	98.2
625.0	626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	42.5°	92.2	91.5
639.2	639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	45°	85.5	86.3
652.0	653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	47.5°	81.8	82.6
662.4	663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	50°	78.1	78.8
670.4	671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	52.5°	75.1	75.1
679.6	680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	55°	72.1	71.4
690.4	691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	57.5°	69.9	68.4
698.0	699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	60°	67.7	66.2
698.0	699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	62.5°	66.2	64.0
696.0	697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	65°	64.7	63.2
699.6	700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	66°	64.0	62.5
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	63.2	61.7
										70°	60.2	58.8
										72.5°	55.8	55.0
										75°	51.3	49.8
										77.5°	45.4	44.6
										80°	38.7	37.9
										82.5°	32.7	31.2
										85°	26.0	24.5
										87.5°	17.8	16.4
										90°	12.5	12.2
										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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tinued):

175°	180°
1041.9	1041.9
1024.8	1031.5
957.2	954.9
861.2	862.0
745.2	746.7
595.0	586.0
426.1	429.9
296.7	296.0
238.0	239.5
203.8	203.8
181.5	181.5
159.9	160.6
145.0	146.5
131.6	132.4
118.3	119.0
107.1	107.1
99.7	100.4
94.5	94.5
89.2	89.2
84.8	86.3
80.3	81.1
75.9	76.6
71.4	71.4
67.7	67.7
64.7	64.0
62.5	61.0
60.2	59.5
59.5	58.8
58.8	58.0
57.3	56.5
55.0	54.3
50.6	49.1
46.1	44.6
42.4	40.2
35.7	34.2
26.0	24.5
15.6	15.6
8.7	8.7
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



İL2-7050-ULG

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

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