

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: P226230

Luminaire Tested: **IST-AF-350-LED-E1-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35937)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-350-LED-E1-T2
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2555.1 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Cutoff
BUG Rating: B1 - U1 - G1

Input Watts (W): 20.09
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

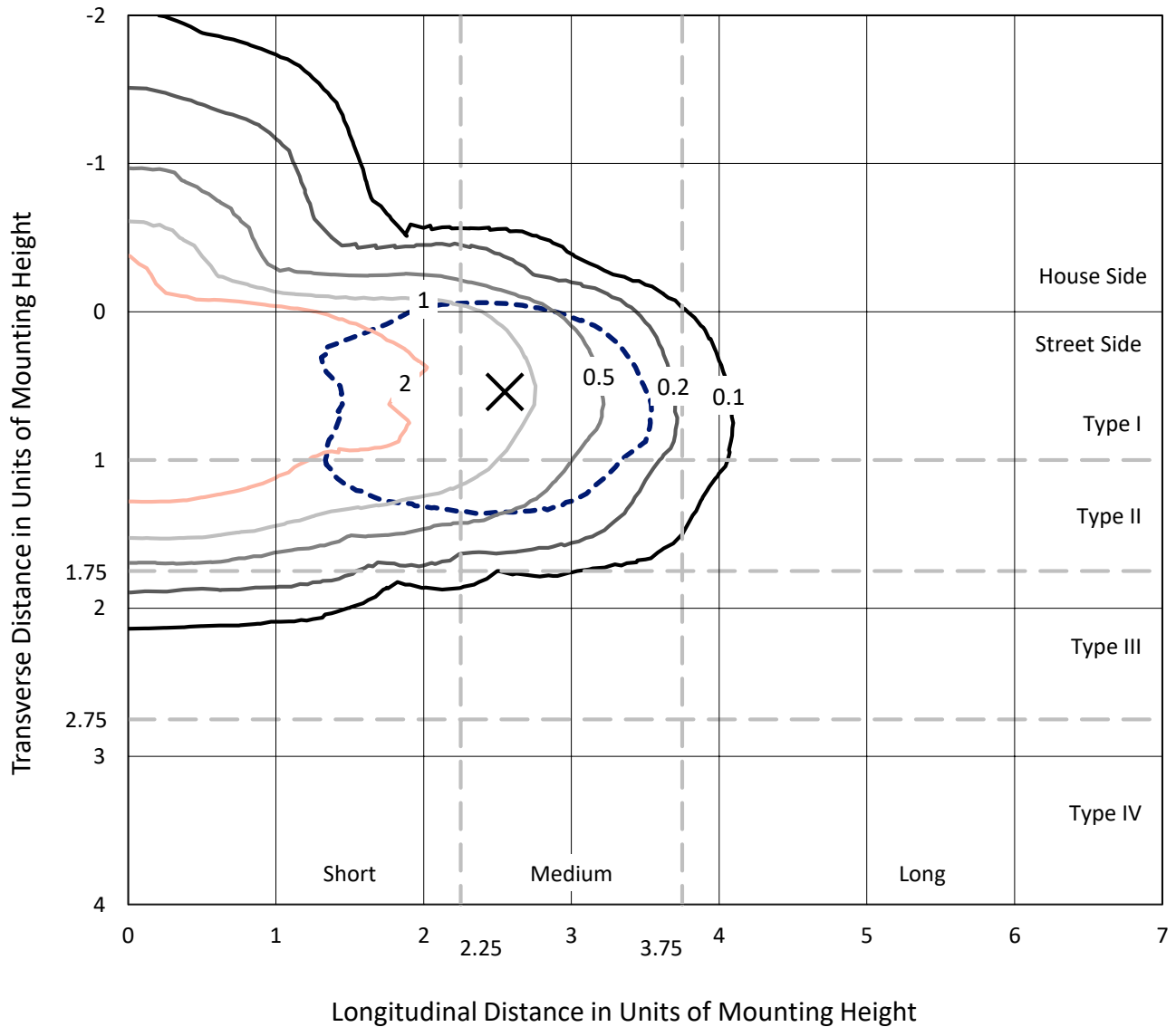


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

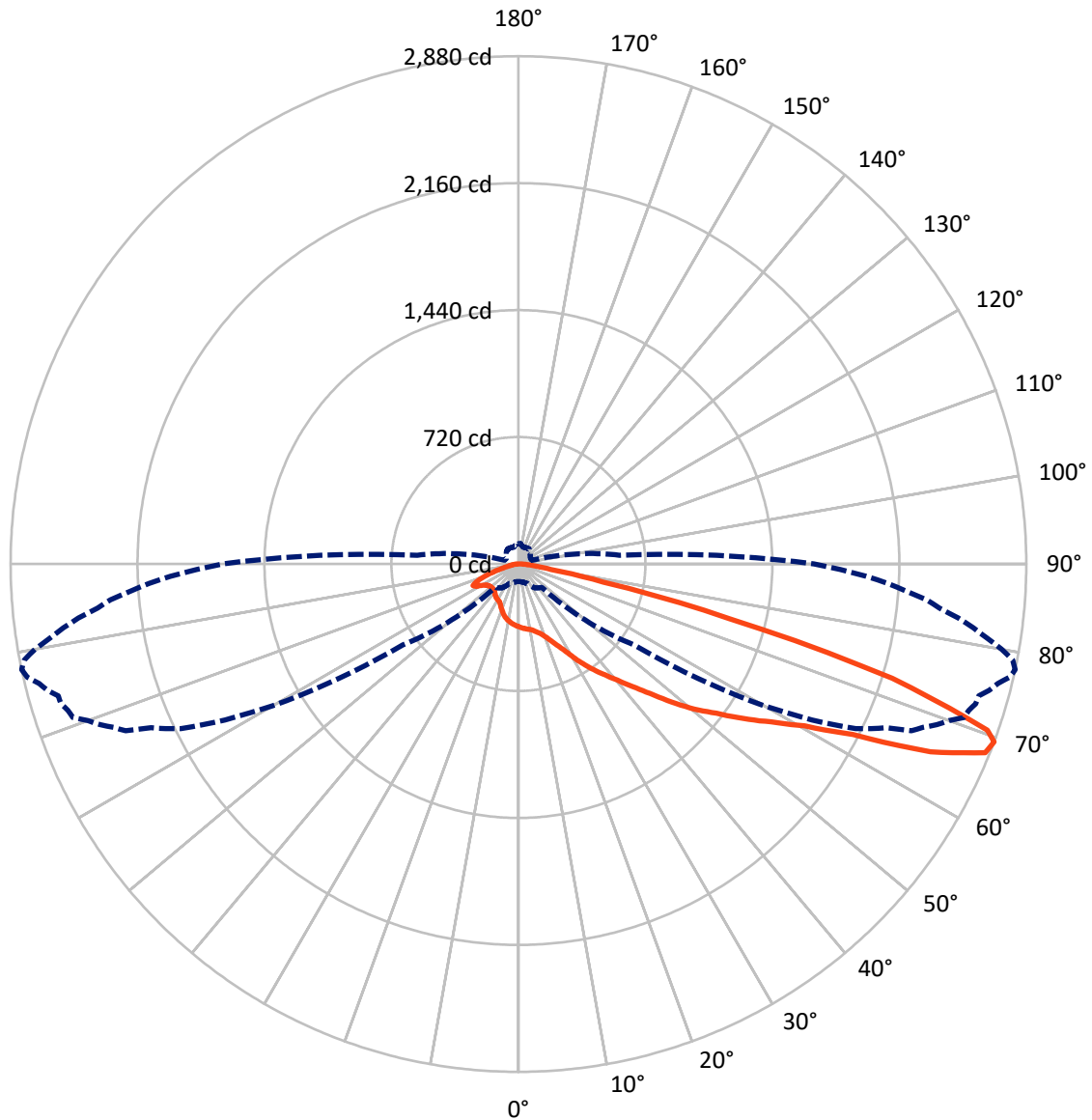


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	467.2	0.9	468.1
	% Fixture	18.3	0.0	18.3
Street Side	Lumens	2086.7	0.4	2087.1
	% Fixture	81.7	0.0	81.7
Total	Lumens	2553.8	1.3	2555.1
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	1.3
10°-20°	99.6	3.9
20°-30°	178.6	7.0
30°-40°	291.6	11.4
40°-50°	431.3	16.9
50°-60°	563.1	22.0
60°-70°	629.8	24.6
70°-80°	282.7	11.1
80°-90°	44.1	1.7
90°-100°	1.3	0.1
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2553.8	99.9
0°-180°	2555.1	100.0



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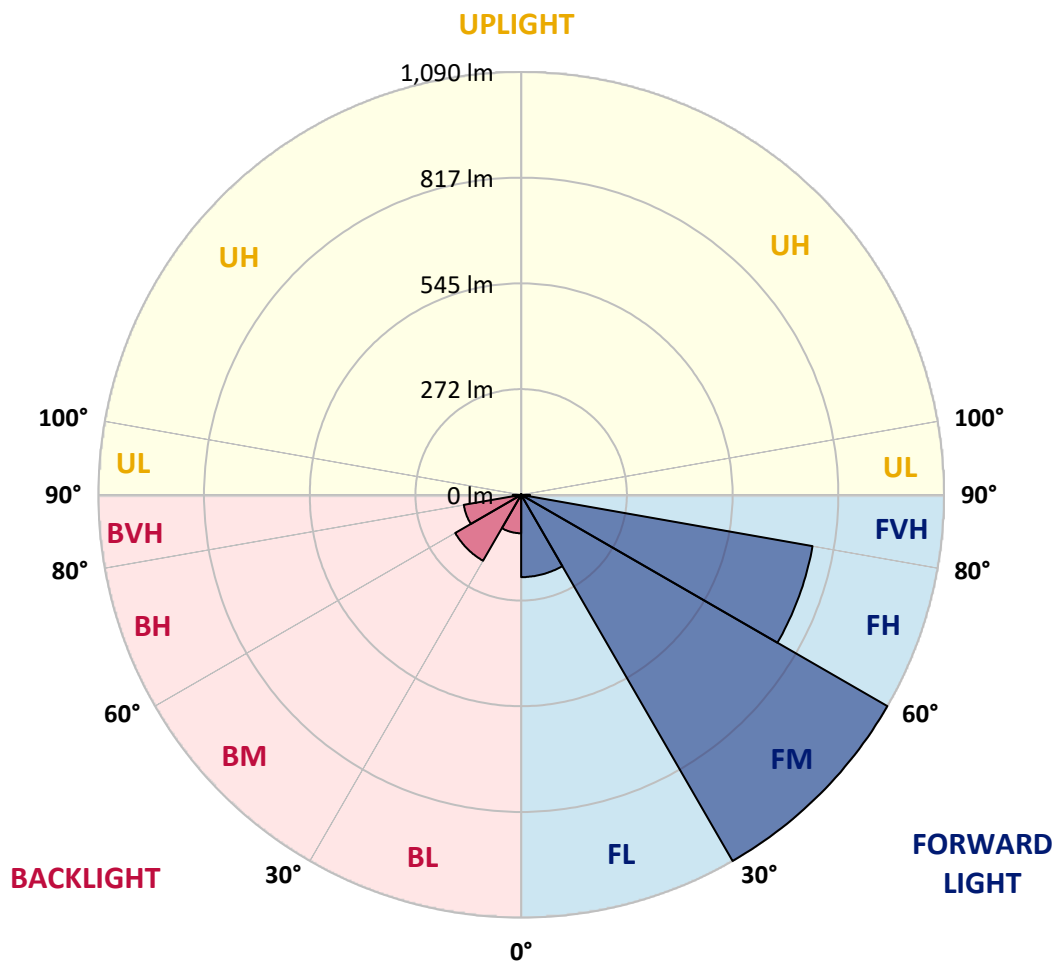
CATALOG NUMBER: IST-AF-350-LED-E1-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.1	8.3			
FM (30°-60°)	1089.7	42.6			
FH (60°-80°)	762.4	29.8			G1/1800
FVH (80°-90°)	22.5	0.9			G1/100
BL (0°-30°)	99.2	3.9	B0/110		
BM (30°-60°)	196.3	7.7	B0/220		
BH (60°-80°)	150.1	5.9	B1/500		G1/500
BVH (80°-90°)	21.6	0.8			G1/100
UL (90°-100°)	1.3	0.1		U1/10	
UH (100°-180°)	0.9	0.0		U1/10	

BUG Rating: B1-U1-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4
2.5°	380.5	380.5	379.4	378.7	377.6	374.6	370.2	369.5	369.1	368.4	367.5
5°	408.4	405.4	406.2	404.3	400.3	395.1	386.9	382.8	380.5	380.2	378.7
7.5°	431.0	431.4	430.3	426.6	421.0	414.7	403.6	397.2	395.4	394.2	391.7
10°	447.3	446.2	445.5	444.8	440.3	435.1	421.0	413.2	411.7	408.8	405.8
12.5°	459.2	459.2	459.2	458.5	455.8	451.8	440.7	432.9	431.0	427.0	424.3
15°	472.2	470.7	469.2	468.1	468.5	468.5	460.3	454.4	451.4	449.2	444.0
17.5°	500.0	496.6	493.4	488.9	481.8	480.0	479.6	479.3	475.2	474.8	469.6
20°	523.8	520.8	517.8	513.3	503.4	492.6	498.2	503.4	502.6	503.0	500.4
22.5°	553.0	550.9	544.9	539.7	526.7	513.7	514.4	525.6	527.1	528.6	529.3
25°	593.1	592.0	582.4	572.3	557.5	545.2	533.8	547.5	550.4	553.8	560.5
27.5°	633.5	631.0	620.5	611.6	593.1	580.1	564.2	571.6	576.0	582.4	592.7
30°	685.9	678.8	675.0	655.1	638.0	619.1	605.4	607.5	606.8	614.3	630.2
32.5°	761.5	750.3	731.8	711.8	691.8	666.6	655.1	654.7	652.8	661.3	670.2
35°	802.3	799.7	788.2	768.2	746.3	722.6	715.1	708.1	709.2	713.7	717.0
37.5°	846.5	844.2	835.3	824.2	807.5	820.5	779.3	769.0	764.1	761.9	763.0
40°	865.7	867.6	872.4	874.3	864.6	926.9	845.7	811.6	810.1	806.8	803.4
42.5°	869.8	874.6	884.3	905.4	914.7	1050.5	900.6	859.5	853.6	850.9	851.3
45°	884.6	892.1	894.0	913.2	957.0	1056.8	962.6	901.7	897.2	896.9	894.7
47.5°	920.7	930.7	930.7	939.2	980.7	1069.0	983.7	944.0	941.0	939.6	945.5
50°	925.9	939.2	965.9	993.4	1023.4	1079.0	1007.8	990.0	991.1	994.4	1011.9
52.5°	837.9	851.3	921.8	1002.6	1100.5	1106.5	1044.1	1051.2	1058.7	1074.9	1106.8
55°	718.5	728.1	811.6	941.0	1103.5	1210.7	1135.4	1155.1	1170.7	1175.5	1225.5
57.5°	565.7	579.0	664.0	832.0	1030.4	1240.4	1345.4	1354.3	1336.8	1352.8	1371.0
60°	306.4	304.9	423.2	601.6	876.9	1185.5	1547.9	1700.7	1704.4	1728.9	1699.6
62.5°	171.3	171.3	205.5	308.9	564.2	1003.0	1645.1	2000.4	2046.8	2085.7	2171.4
65°	129.4	130.5	142.8	186.2	316.8	633.2	1573.8	2102.8	2191.8	2281.2	2431.5
67.5°	107.6	107.6	116.5	138.7	198.0	287.4	1158.8	1897.3	2008.6	2115.4	2323.1
69°	99.7	100.1	106.8	122.0	165.8	187.0	800.5	1608.7	1735.9	1884.0	2128.8
70°	96.1	94.9	101.3	113.9	150.3	147.6	586.5	1398.8	1497.4	1630.2	1911.8
72.5°	85.3	84.2	87.6	97.2	118.4	105.4	239.3	752.6	901.3	1050.1	1274.5
75°	76.0	74.9	77.5	81.9	92.0	80.5	120.2	315.3	381.7	493.4	680.7
77.5°	67.1	65.0	67.1	70.1	72.3	60.0	81.6	145.8	178.8	219.6	310.1
80°	60.9	58.6	61.2	59.7	56.8	46.3	54.1	84.9	94.2	112.7	147.6
82.5°	43.4	43.1	58.2	60.0	45.2	33.8	38.6	54.5	60.9	64.1	77.8
85°	26.7	25.6	33.8	43.1	46.0	21.2	24.9	32.2	33.8	36.7	43.4
87.5°	13.7	14.1	18.2	22.3	30.1	12.6	14.8	18.9	18.9	18.9	21.5
90°	3.4	4.1	5.5	7.8	6.3	3.4	5.5	4.5	5.2	4.5	5.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: IST-AF-350-LED-E1-T2

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4
2.5°	368.0	366.8	365.4	365.7	365.0	363.9	364.3	363.9	364.3	363.6	362.7
5°	378.7	378.0	375.7	375.4	374.6	373.9	372.8	371.6	371.3	370.5	369.1
7.5°	391.0	388.7	387.6	386.2	384.3	381.4	380.9	379.4	378.4	377.6	375.7
10°	403.6	401.0	399.5	397.6	395.8	393.9	392.1	389.4	386.9	386.2	383.9
12.5°	422.5	419.1	416.1	413.2	411.3	408.1	405.4	402.1	399.5	398.3	394.7
15°	443.2	438.8	435.9	433.6	430.7	427.7	424.3	421.4	417.3	414.0	410.6
17.5°	467.7	463.7	461.5	457.4	453.7	450.3	447.7	444.0	440.7	434.8	431.8
20°	500.0	496.6	494.1	489.6	485.5	482.2	480.0	472.2	467.7	462.6	457.8
22.5°	530.1	530.4	527.8	524.9	522.2	517.8	514.1	508.5	503.0	496.6	490.0
25°	562.7	565.7	566.0	565.3	563.9	558.6	556.8	551.2	546.8	536.3	533.4
27.5°	599.0	602.4	606.5	611.6	612.7	607.2	609.8	604.3	596.5	592.0	582.4
30°	634.3	643.5	652.1	658.1	661.7	664.3	662.5	660.6	655.4	648.0	639.4
32.5°	679.5	689.2	697.8	710.7	717.4	725.6	724.0	724.8	722.9	715.6	705.5
35°	725.2	733.7	744.8	753.4	769.7	778.6	786.0	785.6	785.6	781.1	771.5
37.5°	765.6	770.4	779.7	793.8	804.6	818.7	830.5	835.3	843.1	843.5	833.1
40°	807.9	812.7	819.8	830.1	842.0	858.7	874.6	890.3	897.6	905.4	901.3
42.5°	853.6	858.7	863.9	870.5	887.6	900.6	922.1	943.3	958.5	974.5	972.6
45°	898.8	904.7	912.1	922.1	937.3	958.5	979.3	1003.0	1037.9	1056.8	1069.8
47.5°	949.9	959.6	973.3	989.3	1001.5	1023.4	1049.8	1086.5	1121.7	1154.3	1174.8
50°	1027.1	1030.8	1053.0	1068.7	1092.0	1114.3	1140.6	1172.9	1218.5	1251.9	1284.5
52.5°	1118.0	1132.1	1154.3	1172.1	1190.7	1212.9	1240.0	1269.0	1314.2	1351.6	1394.0
55°	1235.2	1255.3	1274.5	1284.1	1310.1	1330.1	1352.0	1380.6	1429.2	1470.0	1519.7
57.5°	1375.1	1395.1	1404.3	1418.4	1429.6	1451.8	1481.4	1500.8	1543.8	1586.1	1638.8
60°	1662.1	1649.5	1660.7	1638.8	1635.4	1637.2	1643.6	1658.4	1682.5	1721.8	1777.5
62.5°	2180.3	2162.1	2113.9	2096.4	2062.7	2017.1	1974.1	1968.2	1955.6	1985.2	2020.0
65°	2483.0	2549.0	2556.0	2574.6	2561.3	2525.7	2475.2	2458.9	2418.1	2389.5	2387.7
67.5°	2410.3	2509.3	2571.3	2649.5	2692.9	2735.2	2746.3	2760.8	2734.4	2721.5	2725.2
69°	2208.1	2281.6	2420.3	2473.7	2542.3	2598.7	2672.9	2685.9	2711.4	2715.2	2764.5
70°	2007.8	2115.8	2195.2	2275.2	2370.2	2432.2	2465.5	2520.4	2583.9	2615.1	2668.5
72.5°	1443.7	1478.9	1535.2	1639.2	1665.5	1729.6	1795.3	1842.0	1916.6	1969.3	2095.0
75°	779.0	800.0	888.7	947.8	963.3	984.5	1032.7	1044.1	1072.0	1089.0	1209.9
77.5°	355.7	388.0	399.5	431.8	413.6	422.5	433.9	431.4	439.2	476.3	518.5
80°	164.0	170.2	174.7	188.0	188.8	185.9	187.0	185.1	183.6	189.6	194.0
82.5°	79.8	89.4	89.4	97.6	101.7	100.6	102.7	102.0	103.5	102.0	106.8
85°	46.7	46.7	50.4	54.9	54.1	55.6	55.6	58.6	59.0	59.7	59.7
87.5°	21.9	24.1	25.3	27.1	27.8	28.9	29.7	29.7	30.1	29.3	30.1
90°	5.5	5.5	9.3	9.3	10.0	11.2	9.6	10.4	13.0	9.6	12.3
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226230

CATALOG NUMBER: IST-AF-350-LED-E1-T2

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226230

CATALOG NUMBER: IST-AF-350-LED-E1-T2

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4
2.5°	362.0	362.7	362.4	360.9	360.6	360.6	359.8	359.5	358.6	358.3	359.1
5°	368.7	368.7	367.5	366.1	364.6	364.3	363.9	362.0	361.3	360.6	359.8
7.5°	375.0	374.3	372.8	370.2	368.7	368.4	366.8	365.0	363.1	361.6	360.9
10°	381.7	380.9	378.0	376.1	373.2	372.8	370.2	368.0	366.1	364.3	362.7
12.5°	391.3	390.6	387.3	382.8	380.5	379.1	375.7	373.2	370.5	368.4	365.7
15°	406.2	403.2	401.0	396.5	393.2	390.3	386.2	382.4	378.7	375.0	372.8
17.5°	427.0	422.9	417.0	414.3	409.9	405.1	399.5	396.9	392.1	387.6	383.2
20°	454.0	449.9	440.7	437.3	431.0	424.0	419.5	414.0	409.9	402.8	398.0
22.5°	484.1	480.4	471.5	462.6	456.6	451.0	444.0	436.9	429.1	422.5	417.3
25°	523.0	517.4	509.6	500.7	491.8	484.1	474.4	464.4	457.8	448.5	441.0
27.5°	576.0	566.4	553.4	543.8	536.7	524.9	513.0	504.1	493.7	481.5	473.3
30°	633.5	622.8	613.2	602.0	590.1	578.7	562.3	549.3	538.2	525.2	511.9
32.5°	697.3	688.0	674.3	659.9	646.9	632.4	620.5	606.8	587.6	573.8	559.8
35°	761.5	750.7	736.6	724.5	709.6	694.8	681.4	663.2	645.8	626.1	606.5
37.5°	823.5	814.2	798.6	780.1	767.1	751.2	737.4	718.1	697.3	675.5	660.6
40°	892.4	877.6	866.8	845.4	832.0	814.2	794.5	779.7	759.6	735.9	714.7
42.5°	971.5	961.1	949.6	932.1	918.0	896.9	872.1	853.1	834.6	806.4	777.1
45°	1071.6	1064.9	1046.0	1032.0	1013.0	990.7	969.2	946.2	917.0	884.3	857.5
47.5°	1191.7	1186.6	1169.5	1149.5	1124.6	1094.6	1074.6	1043.0	1018.2	977.4	945.5
50°	1300.9	1303.4	1294.1	1263.3	1241.1	1211.1	1179.6	1152.1	1113.9	1071.6	1030.8
52.5°	1431.0	1428.4	1405.0	1388.0	1361.6	1325.3	1290.9	1255.6	1213.6	1169.9	1119.1
55°	1555.7	1563.5	1547.1	1523.1	1491.2	1440.3	1405.4	1359.8	1315.7	1267.4	1208.8
57.5°	1676.6	1701.5	1688.8	1660.2	1627.6	1590.9	1544.9	1493.7	1448.1	1385.1	1319.0
60°	1827.2	1860.2	1865.4	1846.8	1811.2	1768.6	1708.1	1668.0	1605.4	1547.1	1496.3
62.5°	2059.0	2134.0	2129.5	2138.4	2113.2	2086.8	2016.0	1973.0	1891.3	1849.4	1778.6
65°	2446.3	2501.5	2567.9	2565.7	2548.3	2485.3	2411.8	2339.8	2286.0	2203.3	2129.5
67.5°	2771.2	2816.8	2856.2	2835.7	2795.7	2724.8	2638.8	2538.7	2456.6	2365.4	2268.6
69°	2801.7	2857.2	2880.2	2855.1	2783.0	2690.7	2606.5	2513.4	2400.7	2322.4	2204.5
70°	2720.0	2774.9	2821.3	2756.3	2690.4	2600.2	2508.2	2411.4	2310.5	2226.4	2107.3
72.5°	2160.7	2222.6	2216.3	2209.3	2156.6	2066.5	1981.9	1929.9	1859.1	1757.4	1671.4
75°	1256.3	1284.9	1234.8	1287.5	1224.5	1133.5	1145.4	1086.8	1034.9	976.3	931.0
77.5°	493.4	518.5	492.2	483.7	455.5	449.2	402.1	407.6	384.3	338.3	317.1
80°	187.0	190.3	185.9	176.6	174.7	164.0	161.0	150.6	145.8	130.5	125.0
82.5°	100.6	102.4	99.4	96.5	94.2	87.9	83.8	76.0	71.6	66.8	66.4
85°	57.9	56.4	54.9	53.4	50.1	46.3	43.4	40.4	37.1	34.5	31.9
87.5°	30.4	30.8	31.2	29.7	27.4	24.4	22.6	21.5	18.9	17.8	16.7
90°	10.0	7.5	8.5	10.7	10.0	8.2	7.8	6.6	5.5	5.5	4.5
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226230
 CATALOG NUMBER: IST-AF-350-LED-E1-T2

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P226230
 NUMBER: IST-AF-350-LED-E1-T2

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	110°	0.0
357.9	357.9	356.8	356.1	353.5	349.0	344.6	340.5	334.9	332.8	329.8	112.5°	0.0
359.1	358.3	357.2	355.7	350.6	340.1	329.4	317.9	306.0	295.2	282.6	115°	0.0
359.8	358.3	356.8	355.0	347.6	331.6	310.1	287.4	266.4	250.4	243.7	117.5°	0.0
360.2	359.1	357.2	354.7	344.2	320.5	286.0	253.4	234.8	228.5	227.4	120°	0.0
364.3	362.4	359.5	356.5	342.7	308.2	258.9	227.7	220.3	223.3	228.5	122.5°	0.0
369.5	367.2	363.6	360.6	342.0	292.3	232.6	213.3	215.8	224.0	232.6	125°	0.0
378.7	375.0	370.9	368.0	343.5	272.6	211.4	205.8	213.7	224.0	235.6	127.5°	0.0
392.4	387.3	382.4	377.3	345.7	248.2	198.9	201.0	210.3	221.5	234.1	130°	0.0
409.5	403.6	396.9	389.1	348.3	227.0	191.8	195.9	204.4	214.0	224.4	132.5°	0.0
432.5	424.3	415.8	406.2	352.0	204.0	185.5	190.0	195.1	200.7	205.8	135°	0.0
461.5	450.3	441.0	428.0	355.7	188.4	180.2	181.8	182.9	183.6	183.2	137.5°	0.0
500.0	482.9	472.2	456.2	359.8	180.2	174.3	172.5	170.6	168.1	165.1	140°	0.0
540.8	526.7	509.6	489.3	362.4	174.7	168.8	162.9	157.6	155.1	155.1	142.5°	0.0
588.3	570.8	549.3	523.8	359.1	168.8	161.3	153.5	150.6	154.0	152.8	145°	0.0
635.8	611.6	587.9	558.6	350.9	162.1	153.2	149.1	151.3	146.9	144.3	147.5°	0.0
688.0	661.3	628.4	594.2	339.0	155.1	149.1	151.3	143.5	138.4	140.6	150°	0.0
746.7	715.1	679.5	633.2	331.2	150.6	142.8	144.6	138.0	134.3	133.2	152.5°	0.0
826.4	781.5	738.2	683.6	337.2	143.5	130.5	138.0	134.3	130.9	128.0	155°	0.0
904.7	856.8	805.7	741.4	347.6	138.4	120.9	130.9	133.5	128.0	122.4	157.5°	0.0
983.4	932.5	872.8	801.2	360.2	135.0	113.5	122.4	131.7	125.0	120.5	160°	0.0
1066.0	1001.9	940.7	863.5	376.4	131.7	107.6	115.0	128.4	125.0	118.4	162.5°	0.0
1152.9	1077.2	1016.0	932.5	405.1	126.8	100.1	109.0	125.0	124.6	116.1	165°	0.0
1253.7	1186.2	1107.5	1022.6	444.8	121.3	93.5	104.6	122.0	123.2	113.5	167.5°	0.0
1425.5	1355.7	1260.8	1179.9	523.3	113.9	89.4	100.1	117.2	120.2	111.3	170°	0.0
1704.0	1609.1	1521.9	1446.2	658.1	103.5	86.4	95.3	112.0	116.5	109.5	172.5°	0.0
2023.4	1930.7	1825.4	1698.1	732.9	93.8	82.3	89.4	106.8	112.7	107.6	175°	0.0
2159.1	2037.9	1910.0	1759.0	661.3	86.0	77.8	83.8	100.9	107.6	105.0	177.5°	0.0
2096.8	1974.1	1825.4	1677.3	575.3	81.9	75.3	80.8	96.5	104.2	102.4	180°	0.0
1988.5	1865.0	1732.3	1554.6	513.7	79.8	73.4	79.0	94.6	102.4	100.9		
1572.7	1462.6	1340.2	1204.7	350.2	72.3	67.5	73.4	87.2	95.7	95.3		
833.5	801.2	710.7	631.4	181.4	64.5	61.2	67.1	80.5	89.4	89.4		
300.0	272.3	260.3	216.3	96.5	56.4	54.9	59.3	73.0	81.6	81.2		
113.5	110.6	99.0	92.8	61.2	46.0	46.3	50.8	64.1	72.3	71.9		
64.1	58.2	56.4	54.5	39.0	36.3	38.2	42.7	54.9	62.0	63.0		
30.8	28.5	27.8	26.0	25.6	27.8	30.1	33.8	43.8	52.3	51.1		
14.8	14.1	13.7	13.4	18.2	17.8	21.9	23.3	29.3	41.5	37.4		
4.8	4.8	4.5	3.7	5.2	5.9	7.1	10.0	12.3	24.1	19.6		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'226230
 IST-AF-350-LED-E1-T2

REPORT NUMBER: P226230
 CATALOG NUMBER: IST-AF-350

TION (continued):

CANDELA DISTRIBUTION (con

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	355.4	355.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	327.1	321.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	273.3	272.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	239.6	234.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	228.5	228.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	233.3	234.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	239.6	241.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	243.7	247.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	242.5	247.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	230.4	232.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	208.5	209.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	182.1	181.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	163.6	158.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	155.1	152.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	149.1	144.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	154.7	154.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	159.9	159.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	151.0	144.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	134.6	126.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	123.5	119.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	118.4	116.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	116.8	120.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	116.1	120.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	110.9	117.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	107.2	115.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	105.0	114.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	103.1	115.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	100.1	117.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°	98.7	117.2
										70°	97.2	116.1
										72.5°	92.0	107.2
										75°	85.7	94.6
										77.5°	77.5	81.2
										80°	68.6	70.9
										82.5°	59.7	68.2
										85°	46.7	57.9
										87.5°	34.5	31.9
										90°	19.6	14.4
										92.5°	0.0	0.0
										95°	0.0	0.0
										97.5°	0.0	0.0
										100°	0.0	0.0
										102.5°	0.0	0.0
										105°	0.0	0.0
										107.5°	0.0	0.0



REPORT NUMBER: P226230

CATALOG NUMBER: IST-AF-350-LED-E1-T

0-LED-E1-T2

tinued):

180°
355.4
323.0
270.4
235.2
229.2
233.6
242.5
249.3
248.5
234.5
209.9
184.3
162.4
155.4
146.5
156.2
160.6
145.8
126.8
118.4
116.1
121.6
119.8
118.4
116.1
114.3
113.9
114.6
113.1
111.3
100.1
90.1
81.2
71.6
60.5
45.2
34.5
12.3
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
110°	0.0	0.0	0.0
112.5°	0.0	0.0	0.0
115°	0.0	0.0	0.0
117.5°	0.0	0.0	0.0
120°	0.0	0.0	0.0
122.5°	0.0	0.0	0.0
125°	0.0	0.0	0.0
127.5°	0.0	0.0	0.0
130°	0.0	0.0	0.0
132.5°	0.0	0.0	0.0
135°	0.0	0.0	0.0
137.5°	0.0	0.0	0.0
140°	0.0	0.0	0.0
142.5°	0.0	0.0	0.0
145°	0.0	0.0	0.0
147.5°	0.0	0.0	0.0
150°	0.0	0.0	0.0
152.5°	0.0	0.0	0.0
155°	0.0	0.0	0.0
157.5°	0.0	0.0	0.0
160°	0.0	0.0	0.0
162.5°	0.0	0.0	0.0
165°	0.0	0.0	0.0
167.5°	0.0	0.0	0.0
170°	0.0	0.0	0.0
172.5°	0.0	0.0	0.0
175°	0.0	0.0	0.0
177.5°	0.0	0.0	0.0
180°	0.0	0.0	0.0

(END OF F

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Scaled Data Report

