

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: P227004

Luminaire Tested: **IST-AF-350-LED-E1-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)
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-SL3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2419.4 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B0 - U1 - G1

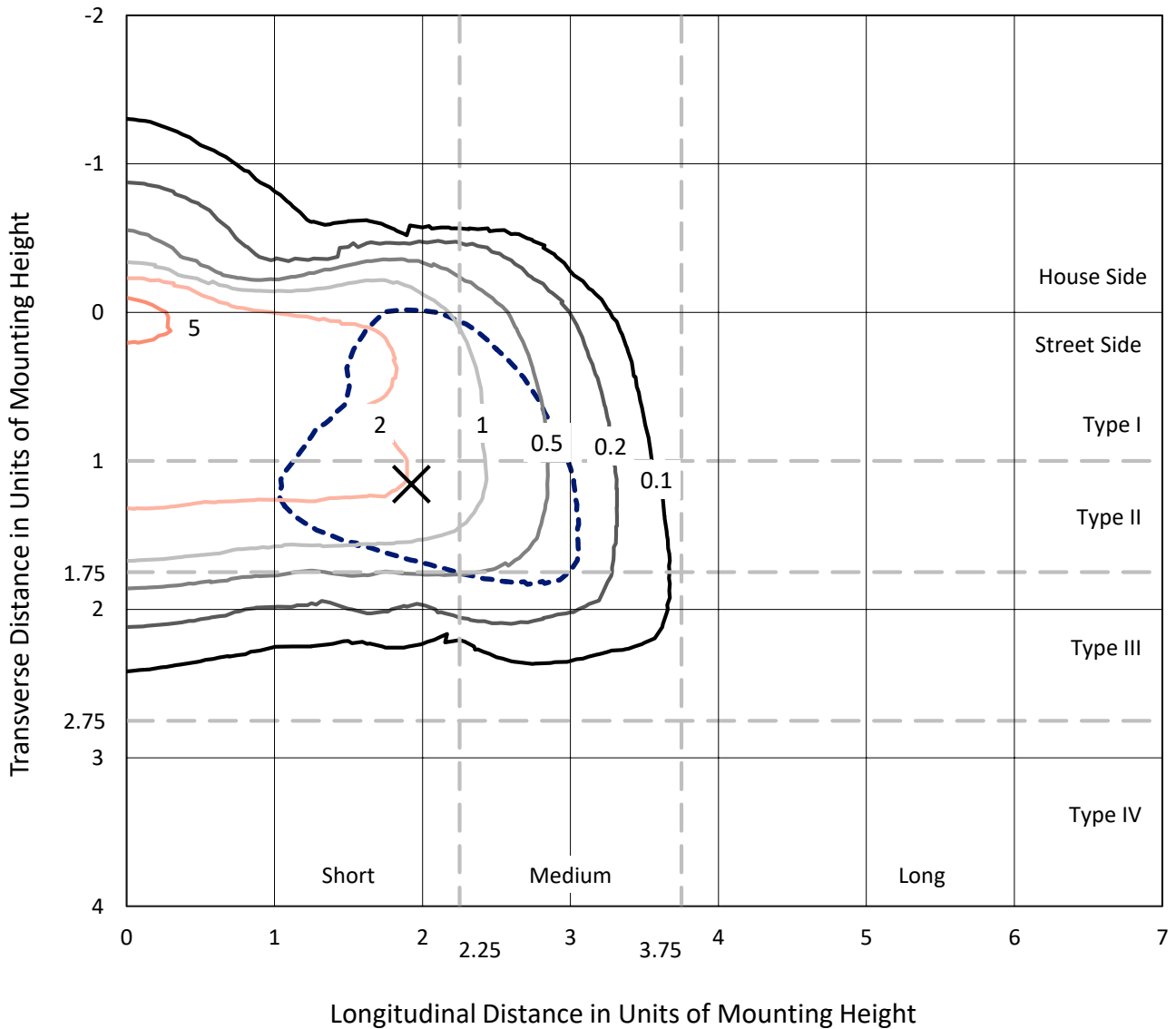
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

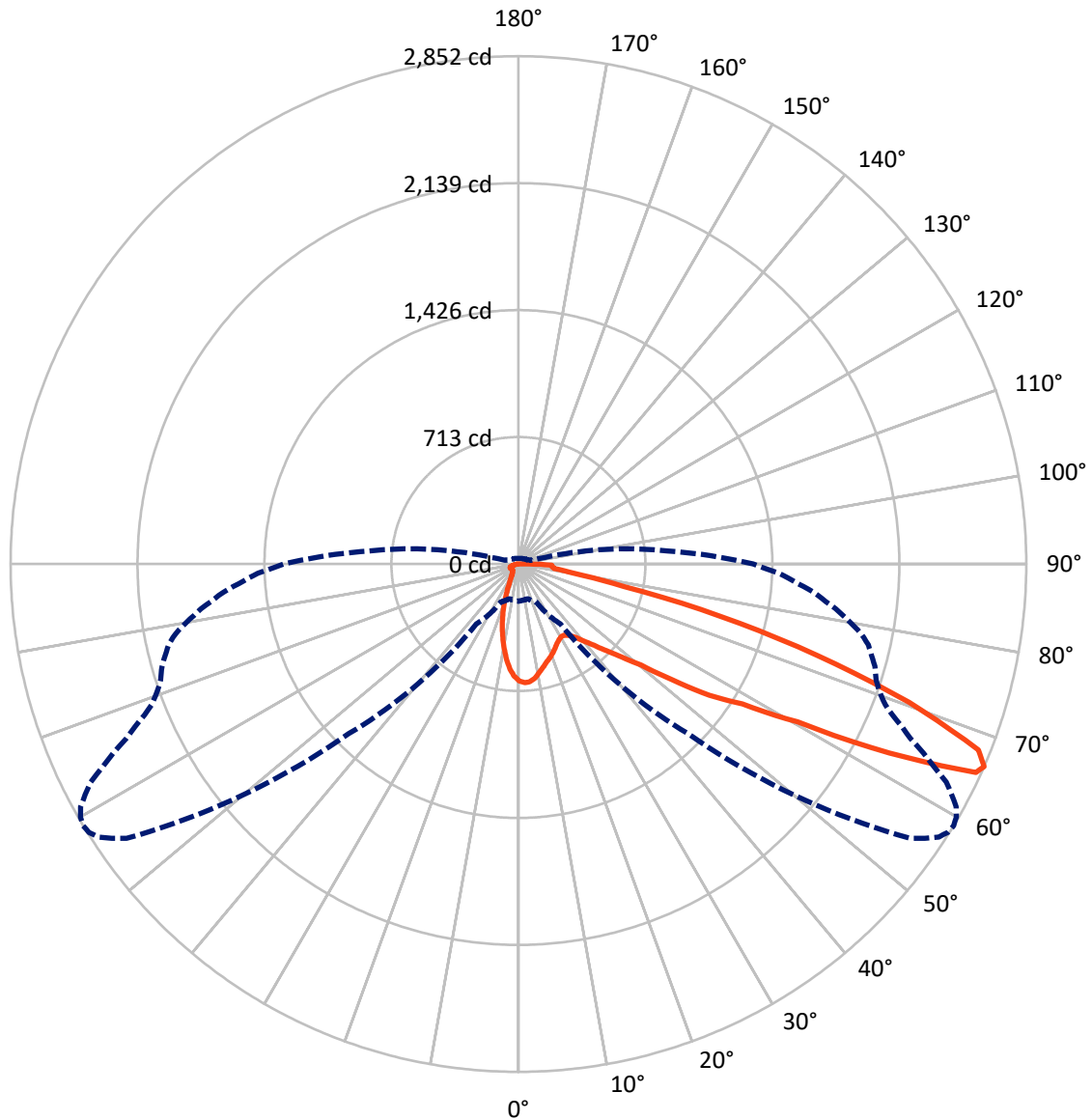


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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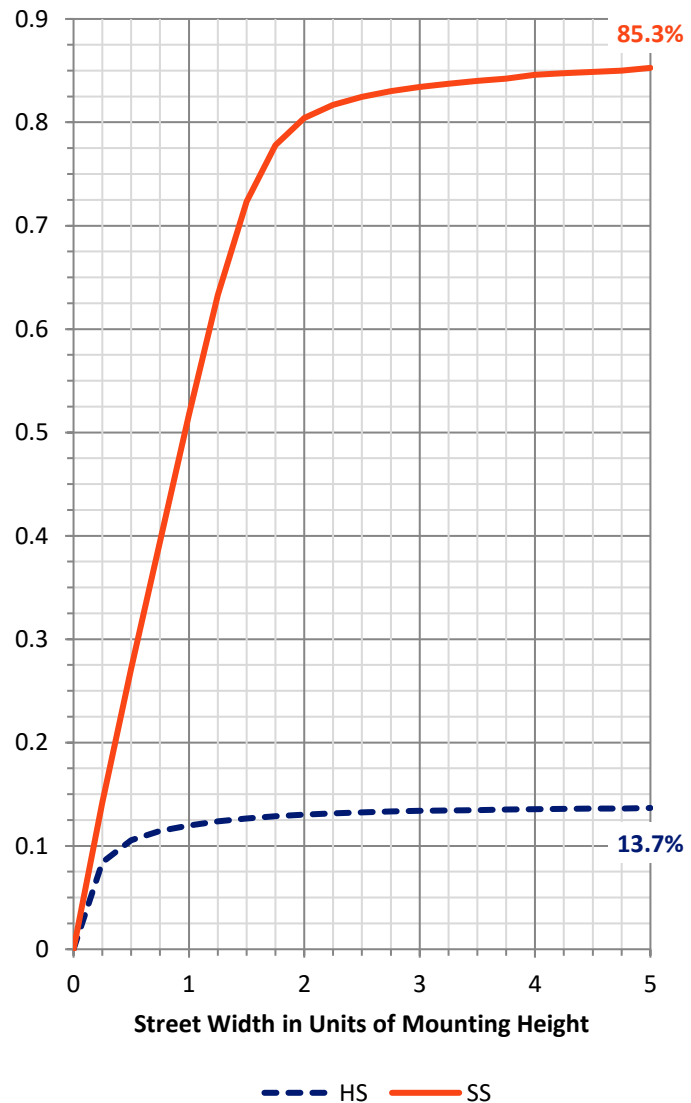
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	335.7	0.2	335.8
	% Fixture	13.9	0.0	13.9
Street Side	Lumens	2082.7	0.9	2083.6
	% Fixture	86.1	0.0	86.1
Total	Lumens	2418.3	1.0	2419.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	2.3
10°-20°	118.4	4.9
20°-30°	148.5	6.1
30°-40°	203.1	8.4
40°-50°	326.8	13.5
50°-60°	567.8	23.5
60°-70°	689.9	28.5
70°-80°	257.3	10.6
80°-90°	50.6	2.1
90°-100°	1.0	0.0
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°	2418.3	100.0
0°-180°	2419.4	100.0



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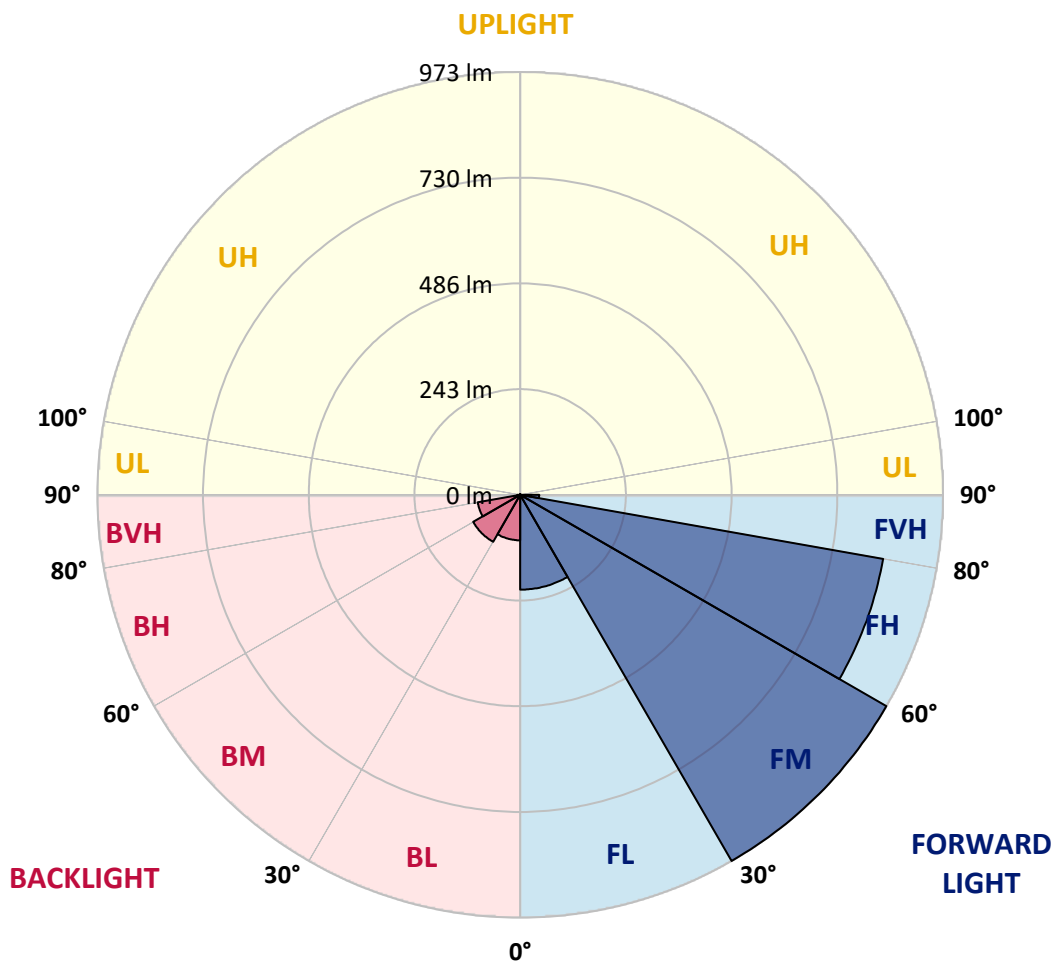
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	218.2	9.0			
FM	(30°-60°)	972.9	40.2			
FH	(60°-80°)	848.0	35.0			G1/1800
FVH	(80°-90°)	43.7	1.8			G1/100
BL	(0°-30°)	104.7	4.3	B0/110		
BM	(30°-60°)	124.8	5.2	B0/220		
BH	(60°-80°)	99.2	4.1	B0/110		G0/110
BVH	(80°-90°)	6.9	0.3			G0/10
UL	(90°-100°)	1.0	0.0		U1/10	
UH	(100°-180°)	0.2	0.0		U1/10	

BUG Rating: B0-U1-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2
2.5°	674.3	672.1	676.2	674.7	675.9	670.2	669.1	668.0	668.8	667.7	667.7
5°	658.4	657.2	662.1	664.7	667.0	666.1	665.8	665.8	666.1	663.6	664.0
7.5°	611.6	610.9	617.6	622.4	633.2	639.4	647.6	648.0	648.8	647.6	649.9
10°	561.9	564.2	570.1	577.9	593.8	603.5	619.1	622.1	623.2	623.5	623.9
12.5°	514.4	512.3	519.7	534.5	556.0	571.6	591.3	592.7	594.6	597.2	599.8
15°	472.2	474.8	480.7	496.3	518.9	540.8	566.4	567.8	571.6	573.8	577.6
17.5°	443.2	443.2	449.9	464.4	485.5	513.3	545.6	548.2	551.2	554.1	558.2
20°	428.8	428.8	431.4	439.9	458.5	485.2	524.2	527.1	532.2	535.6	541.1
22.5°	427.7	427.3	427.0	428.8	439.9	460.7	501.1	505.2	509.6	514.9	519.7
25°	439.6	440.7	436.2	433.2	434.3	444.0	479.3	481.5	490.0	493.4	499.3
27.5°	456.6	458.5	454.8	450.3	443.7	437.3	460.7	464.4	469.9	475.6	482.9
30°	481.1	480.7	480.4	477.4	464.4	444.8	455.1	457.8	462.6	467.0	473.3
32.5°	507.4	510.4	512.6	511.2	497.8	464.4	462.9	465.1	469.6	472.2	476.3
35°	541.6	543.1	551.6	551.6	538.2	499.6	484.8	486.6	488.9	490.0	493.0
37.5°	579.0	584.2	596.8	604.3	583.5	543.4	519.2	519.2	520.4	521.2	523.0
40°	622.4	629.8	647.2	661.3	648.0	597.9	564.6	567.8	566.8	565.3	569.4
42.5°	672.9	681.0	702.2	715.6	707.7	663.6	625.3	623.2	626.5	622.1	623.5
45°	731.5	737.8	759.2	773.4	779.7	744.1	705.1	700.7	700.7	691.0	695.1
47.5°	784.1	786.0	806.8	831.7	852.0	852.7	797.9	794.9	787.9	781.5	780.1
50°	833.1	838.6	852.0	879.1	921.8	958.8	925.5	916.2	908.4	885.1	892.1
52.5°	918.0	928.8	937.3	953.7	1004.1	1079.4	1120.5	1106.1	1104.3	1083.1	1078.3
55°	934.0	935.1	963.3	1057.5	1176.2	1230.4	1309.4	1309.0	1314.9	1308.3	1301.9
57.5°	859.1	850.2	897.2	1021.5	1260.1	1538.2	1514.1	1516.7	1509.0	1488.5	1482.3
60°	669.1	676.6	727.4	885.8	1199.6	1737.1	1896.1	1849.1	1882.8	1829.8	1801.2
62.5°	376.4	368.0	402.4	569.0	984.1	1747.4	2416.6	2421.7	2438.1	2408.4	2338.7
65°	243.0	239.3	235.9	287.9	589.7	1528.6	2704.4	2768.2	2806.5	2822.0	2823.1
66°	208.8	205.8	201.8	235.6	411.0	1346.8	2685.9	2754.1	2815.0	2843.9	2852.4
67.5°	177.7	173.2	172.5	195.1	286.0	1044.9	2508.9	2616.1	2669.9	2744.9	2785.7
70°	135.7	133.5	140.2	168.4	219.6	491.8	1999.3	2139.1	2231.9	2290.5	2328.3
72.5°	113.9	113.1	122.4	154.0	208.1	279.0	1399.5	1549.8	1646.5	1702.5	1754.5
75°	89.0	89.7	102.0	146.9	206.9	243.0	813.0	956.3	1012.6	1100.9	1168.4
77.5°	66.8	66.0	75.7	118.7	201.8	246.3	422.5	481.8	543.8	588.7	605.0
80°	46.7	47.5	54.1	81.6	157.2	253.4	263.3	277.1	290.1	304.5	307.5
82.5°	31.2	31.5	40.1	56.1	109.0	241.8	245.9	239.6	229.7	217.0	203.3
85°	18.9	19.6	28.5	37.8	84.6	218.8	254.4	237.7	222.6	205.8	189.1
87.5°	9.6	10.7	17.1	22.3	50.1	107.9	264.8	252.6	231.8	206.2	187.7
90°	2.6	2.6	3.7	5.5	10.0	21.9	66.8	60.0	30.1	57.1	28.2
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°	56°	57°	58°	59°
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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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2
2.5°	667.3	668.0	667.3	666.1	667.3	666.1	665.8	665.4	665.8	665.0	664.7
5°	664.0	664.7	664.7	662.5	662.1	663.6	661.3	662.1	661.3	660.6	659.1
7.5°	648.0	648.3	648.8	647.2	648.3	648.3	647.6	647.6	646.9	647.2	645.8
10°	625.7	627.3	628.7	628.0	627.6	631.0	629.4	630.5	630.5	629.4	629.8
12.5°	601.6	604.3	606.1	606.1	607.5	611.3	610.9	611.6	614.6	614.6	613.5
15°	579.4	582.0	584.9	587.2	590.1	592.7	594.6	597.6	599.0	599.0	600.9
17.5°	561.9	565.7	569.0	570.1	574.2	578.7	579.7	583.5	585.7	586.8	589.0
20°	544.9	549.0	553.0	556.8	560.5	565.7	568.2	570.5	574.2	576.4	579.7
22.5°	524.9	531.1	536.3	540.8	547.1	551.6	556.8	560.5	564.9	568.2	570.8
25°	506.0	514.4	521.5	526.0	534.5	540.8	547.1	552.7	558.2	563.0	566.8
27.5°	488.5	498.2	506.7	513.7	523.0	533.1	539.3	548.6	556.0	562.7	567.1
30°	480.0	488.2	497.1	505.2	514.4	527.1	537.5	549.3	558.6	567.1	573.8
32.5°	481.8	489.3	497.1	504.1	513.7	527.8	538.6	552.3	566.0	577.1	585.7
35°	496.6	503.4	508.5	514.9	523.3	534.1	545.6	560.1	577.1	592.0	603.1
37.5°	527.8	529.7	534.9	539.7	544.1	554.1	564.9	577.1	596.8	612.4	628.0
40°	566.4	571.2	576.0	578.3	583.5	589.7	594.6	607.5	625.0	645.4	662.5
42.5°	623.9	625.7	626.5	627.3	629.1	633.5	640.6	652.4	669.5	687.7	706.7
45°	688.4	690.7	692.8	694.0	691.4	694.0	701.4	707.0	723.6	740.7	764.9
47.5°	777.9	771.2	767.8	772.2	770.1	775.6	779.0	782.3	802.3	822.8	843.1
50°	892.4	888.3	883.2	883.5	887.6	883.9	886.2	898.4	905.1	922.1	949.2
52.5°	1075.6	1063.1	1043.4	1034.9	1039.7	1036.8	1037.9	1040.4	1036.0	1051.9	1074.9
55°	1301.9	1285.6	1272.7	1265.2	1237.8	1235.5	1217.4	1210.7	1196.2	1211.5	1206.3
57.5°	1463.3	1452.9	1446.2	1423.9	1411.4	1386.1	1378.7	1369.8	1349.8	1359.8	1368.7
60°	1774.9	1737.8	1725.2	1686.2	1673.2	1649.1	1618.3	1603.2	1592.7	1602.4	1596.4
62.5°	2294.9	2243.3	2233.3	2140.9	2118.3	2062.7	2004.9	1997.1	1964.4	1944.0	1939.2
65°	2802.7	2728.9	2673.6	2572.7	2504.5	2425.1	2336.8	2272.3	2205.9	2172.5	2128.4
66°	2840.5	2811.3	2755.6	2696.6	2597.2	2510.4	2410.3	2340.5	2265.9	2207.4	2169.6
67.5°	2776.0	2760.4	2740.8	2700.7	2638.4	2557.5	2462.5	2373.6	2283.7	2214.8	2154.3
70°	2346.4	2363.5	2385.8	2375.4	2339.8	2308.3	2224.4	2174.7	2107.2	2016.7	1979.6
72.5°	1771.1	1816.8	1801.2	1742.6	1715.2	1693.3	1662.9	1629.5	1532.7	1521.5	1477.8
75°	1139.5	1124.3	1134.2	1063.1	1014.5	994.4	922.1	892.4	819.8	772.6	736.6
77.5°	600.6	570.8	547.9	485.2	440.3	414.0	378.7	337.2	273.3	269.6	211.4
80°	278.5	255.9	235.2	213.3	191.4	162.4	141.0	115.0	101.7	87.2	81.2
82.5°	189.1	174.7	162.1	147.6	130.9	110.9	95.7	81.2	69.4	62.3	56.8
85°	171.3	155.8	141.7	123.5	106.1	89.4	73.0	60.5	49.3	43.1	39.3
87.5°	166.5	147.3	132.4	112.7	95.7	78.7	63.0	49.0	38.2	31.2	26.7
90°	21.2	22.6	16.4	15.5	6.6	8.5	6.3	3.7	4.1	3.0	3.4
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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CATALOG NUMBER: IST-AF-350-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
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: P227004

CATALOG NUMBER: IST-AF-350-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2
2.5°	664.0	662.9	664.0	663.6	662.1	662.5	662.9	661.3	660.6	660.6	660.2
5°	658.1	657.2	658.1	657.7	655.4	655.1	655.1	654.0	652.4	651.3	650.6
7.5°	643.9	644.7	644.3	643.2	642.1	642.1	641.0	638.3	636.9	635.4	633.9
10°	628.0	628.0	628.3	628.0	626.1	625.3	623.9	622.4	622.8	619.1	616.1
12.5°	613.9	613.9	613.5	612.7	611.6	611.3	611.3	606.8	605.7	604.6	601.3
15°	600.6	601.3	601.3	601.3	599.4	599.4	597.6	594.6	594.6	591.3	587.9
17.5°	590.1	591.3	590.9	591.3	591.7	589.4	586.0	584.2	582.0	580.1	575.7
20°	581.2	582.0	582.4	582.4	581.2	579.7	576.7	573.8	572.3	568.7	563.0
22.5°	573.1	574.6	574.9	574.9	573.5	572.3	569.4	564.9	561.9	557.5	552.3
25°	569.8	571.6	570.5	571.2	569.8	567.1	563.0	559.3	555.0	549.3	543.8
27.5°	570.8	573.5	572.8	572.3	570.5	568.7	563.4	558.9	553.8	547.1	540.1
30°	577.6	582.0	580.1	578.7	578.3	573.8	569.0	562.7	556.8	549.0	540.8
32.5°	590.1	592.4	592.7	591.7	589.7	586.0	579.4	571.2	564.6	555.3	545.6
35°	610.9	613.2	612.4	612.4	610.5	604.6	596.5	588.3	579.0	568.7	558.6
37.5°	639.9	643.9	643.2	641.7	639.4	632.4	626.1	616.1	605.7	592.0	580.5
40°	676.2	682.5	688.0	686.9	681.8	675.5	669.5	658.1	647.6	632.4	619.8
42.5°	725.2	733.7	740.7	745.9	743.7	735.5	725.2	720.4	705.5	689.9	677.0
45°	787.9	805.7	811.9	818.3	818.3	813.0	810.9	801.2	785.6	764.9	752.6
47.5°	870.5	894.3	901.3	912.1	918.4	912.9	908.8	892.4	882.1	853.6	850.5
50°	971.1	994.8	1014.2	1026.7	1024.9	1029.7	1020.1	1010.8	996.4	972.9	964.7
52.5°	1099.5	1118.3	1135.8	1143.1	1151.0	1149.9	1147.6	1141.3	1123.2	1110.5	1089.7
55°	1231.1	1246.7	1267.8	1280.0	1290.0	1288.2	1279.7	1264.5	1267.8	1241.5	1230.0
57.5°	1381.0	1398.1	1421.0	1432.5	1436.9	1459.5	1454.0	1452.2	1445.8	1436.6	1424.8
60°	1638.8	1643.6	1662.5	1691.4	1727.0	1720.0	1728.9	1734.8	1739.2	1718.5	1717.0
62.5°	1945.9	1951.8	1968.2	1974.1	1979.3	1980.0	1968.2	1968.2	1947.7	1921.0	1900.2
65°	2113.5	2101.2	2090.2	2083.9	2070.1	2057.9	2040.1	2015.9	1981.5	1940.3	1903.2
66°	2137.7	2112.8	2098.3	2082.4	2060.5	2037.8	2016.7	1983.7	1943.3	1894.3	1845.4
67.5°	2114.2	2080.2	2046.4	2023.0	1992.6	1951.8	1914.8	1876.1	1837.9	1770.8	1725.2
70°	1900.9	1860.2	1823.1	1772.0	1723.7	1683.7	1619.8	1552.7	1497.4	1426.9	1382.1
72.5°	1411.8	1363.5	1315.3	1243.3	1173.2	1162.9	1082.7	1003.7	961.5	904.7	859.1
75°	697.3	636.5	550.0	511.5	455.5	428.0	412.9	355.7	342.0	286.0	285.2
77.5°	196.9	169.1	150.3	130.9	122.8	116.8	96.5	92.4	83.8	82.3	77.5
80°	74.6	70.5	68.6	66.8	65.0	63.8	63.0	60.0	58.6	56.4	55.2
82.5°	53.8	52.3	49.0	47.9	46.3	44.1	43.8	41.9	40.8	38.6	37.8
85°	36.3	34.5	32.6	30.8	30.1	29.7	28.5	27.8	27.1	26.0	25.6
87.5°	24.4	22.6	20.4	19.6	19.3	19.6	20.0	19.3	18.9	18.2	17.8
90°	3.0	4.1	3.7	3.7	4.5	3.7	3.7	4.1	3.7	3.7	3.4
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: P227004
 CATALOG NUMBER: IST-AF-350-LED-E1-SL3

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
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	66°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°

NUMBER: P227004
 NUMBER: IST-AF-350-LED-E1-SL3

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	110°	82°	
657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	110°	0.0
659.5	658.4	658.8	657.2	656.9	657.7	658.1	658.1	656.9	650.2	642.4	642.4	112.5°	0.0
649.9	647.6	647.2	646.2	644.3	646.5	645.4	643.5	641.3	633.5	618.4	618.4	115°	0.0
632.1	630.5	628.7	627.3	626.1	625.3	625.0	623.2	619.1	604.6	579.0	579.0	117.5°	0.0
615.0	613.2	610.9	607.5	606.1	603.8	603.8	599.4	596.5	578.3	540.4	540.4	120°	0.0
598.3	594.9	593.8	591.7	587.6	585.7	583.1	578.7	574.2	552.3	502.6	502.6	122.5°	0.0
585.7	582.4	577.6	576.0	571.6	567.5	564.2	558.2	553.4	524.5	462.9	462.9	125°	0.0
571.9	569.4	564.2	560.9	556.0	551.2	545.6	538.2	534.9	498.2	425.0	425.0	127.5°	0.0
560.9	555.0	549.0	546.1	540.1	534.5	529.0	520.1	513.3	472.2	385.0	385.0	130°	0.0
547.9	542.7	536.3	531.1	523.0	516.7	510.4	501.1	493.0	445.8	344.6	344.6	132.5°	0.0
539.0	531.5	524.9	518.9	509.6	502.3	493.4	483.3	475.2	420.6	300.0	300.0	135°	0.0
533.8	526.3	517.8	510.4	499.6	491.1	481.5	470.4	459.9	400.2	258.2	258.2	137.5°	0.0
532.2	523.3	514.4	505.2	494.1	483.3	471.8	460.7	447.3	380.5	212.6	212.6	140°	0.0
536.7	526.0	516.0	504.8	491.8	479.6	468.1	453.7	440.3	363.6	167.7	167.7	142.5°	0.0
549.0	536.0	524.5	512.3	497.5	484.1	470.4	454.0	439.2	351.6	128.4	128.4	145°	0.0
568.2	556.0	542.7	530.4	513.3	498.5	483.3	465.9	448.1	346.8	96.8	96.8	147.5°	0.0
607.2	590.9	577.1	564.2	544.5	529.3	511.9	490.7	470.7	351.3	80.8	80.8	150°	0.0
661.7	641.3	628.7	617.2	592.7	576.0	556.0	531.9	509.3	363.9	71.2	71.2	152.5°	0.0
737.0	721.5	698.8	681.0	656.1	637.6	615.4	586.5	561.2	381.7	66.4	66.4	155°	0.0
831.2	810.9	788.6	770.4	743.4	711.1	687.7	652.8	624.3	409.5	64.1	64.1	157.5°	0.0
946.6	922.1	892.1	876.9	839.4	814.2	783.1	745.5	709.2	452.6	65.3	65.3	160°	0.0
1072.0	1045.7	1022.2	993.4	959.2	931.0	901.3	861.6	816.0	534.1	69.8	69.8	162.5°	0.0
1204.4	1187.3	1165.0	1127.6	1109.1	1073.5	1035.6	991.9	958.8	640.3	80.5	80.5	165°	0.0
1397.2	1378.7	1376.2	1339.5	1311.2	1279.0	1249.2	1212.9	1173.9	828.7	105.7	105.7	167.5°	0.0
1694.0	1674.8	1652.9	1624.2	1590.9	1550.8	1514.1	1465.2	1421.8	1017.4	117.5	117.5	170°	0.0
1869.9	1834.3	1794.9	1751.5	1702.9	1653.2	1603.9	1541.2	1478.2	1029.0	106.1	106.1	172.5°	0.0
1855.0	1810.8	1760.8	1701.8	1650.6	1589.5	1536.4	1455.6	1398.1	916.2	86.4	86.4	175°	0.0
1800.1	1739.6	1692.6	1638.4	1574.2	1519.3	1463.3	1383.5	1317.9	840.1	79.0	79.0	177.5°	0.0
1659.5	1608.0	1542.7	1490.7	1443.3	1377.6	1324.9	1250.4	1205.1	728.5	70.9	70.9	180°	0.0
1326.5	1255.2	1199.9	1159.5	1105.7	1046.4	999.6	936.9	896.9	482.2	61.2	61.2		
772.6	754.8	692.8	658.1	625.3	577.1	540.1	510.0	457.4	233.6	54.1	54.1		
238.1	221.5	219.2	186.2	196.9	168.4	164.0	149.1	149.1	89.7	42.7	42.7		
76.0	74.6	71.6	67.5	66.0	66.0	64.1	63.8	60.9	48.2	31.9	31.9		
53.8	52.7	51.6	50.4	49.7	50.1	48.6	47.9	47.2	34.9	25.3	25.3		
37.1	36.0	33.8	33.8	33.0	32.6	33.0	31.5	31.2	24.4	21.2	21.2		
25.3	24.9	24.4	24.1	23.7	23.3	23.0	21.9	21.2	17.1	14.8	14.8		
16.7	14.1	13.7	11.9	11.5	11.2	10.4	11.2	12.3	12.3	9.6	9.6		
3.7	3.4	3.7	3.7	3.0	3.4	3.4	2.6	2.6	3.7	3.4	3.4		
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'227004
 IST-AF-350-LED-E1-SL3

REPORT NUMBER: P227004
 CATALOG NUMBER: IST-AF-350

TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	657.2	657.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	635.8	629.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	602.0	588.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	556.4	530.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	504.1	466.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	449.9	402.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	399.5	336.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	346.5	268.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	295.6	202.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	238.1	142.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	174.7	103.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	124.6	82.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	93.1	69.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	74.6	60.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	63.4	54.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	56.8	50.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	53.1	49.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	50.8	47.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	49.7	46.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	49.0	44.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	48.2	44.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	48.6	45.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	50.4	45.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	53.4	45.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	55.6	46.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	56.4	47.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	55.6	48.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	54.9	48.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	53.8	47.5
										70°	51.1	44.5
										72.5°	46.0	40.1
										75°	39.3	32.2
										77.5°	31.9	26.0
										80°	23.7	19.6
										82.5°	17.4	15.2
										85°	12.3	10.7
										87.5°	7.5	6.6
										90°	1.8	1.8
										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: P227004

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

0-LED-E1-SL3

tinued):

135°	145°	155°	165°	175°	180°
657.2	657.2	657.2	657.2	657.2	657.2
625.7	625.3	616.1	614.3	607.9	611.3
572.8	566.4	549.7	546.4	539.3	537.5
509.3	491.8	478.5	463.7	449.6	456.6
435.1	405.8	376.4	357.2	349.4	346.8
364.6	311.9	275.3	237.4	224.0	228.8
279.3	219.2	170.2	148.3	135.7	133.5
196.9	140.6	117.9	112.4	109.8	109.8
133.5	107.2	98.7	96.1	96.1	96.5
101.7	90.1	86.4	86.7	88.3	88.7
84.2	79.8	77.8	80.5	83.5	83.8
72.7	71.6	71.9	75.3	78.3	78.7
63.8	65.0	66.4	69.4	71.9	72.7
57.5	59.3	60.5	62.3	63.8	64.1
53.1	55.2	54.9	56.1	57.1	57.5
50.4	51.6	50.4	51.1	51.1	52.0
48.2	48.6	46.7	47.2	47.9	47.9
46.0	45.6	43.8	44.5	45.6	46.0
43.8	43.1	41.5	43.1	44.9	45.2
41.9	41.1	40.4	42.2	44.5	44.9
41.1	40.4	39.7	42.2	44.5	44.9
41.1	40.4	39.7	41.5	43.8	44.1
41.5	40.8	39.3	41.1	42.7	43.1
41.9	41.1	38.6	39.7	40.4	40.8
41.9	40.4	37.8	38.2	38.2	38.6
41.1	39.3	36.3	36.3	36.0	36.0
41.1	37.8	34.9	34.2	33.3	33.3
40.8	37.4	34.5	33.3	32.2	32.2
40.1	36.7	33.8	32.2	31.2	31.2
37.4	35.2	31.9	30.4	29.3	28.9
33.3	32.2	29.7	28.5	27.4	27.1
28.2	28.5	27.1	26.3	25.3	24.9
23.7	24.4	23.7	23.3	22.6	22.3
18.9	20.4	19.6	19.6	20.0	19.3
14.4	16.4	15.5	16.4	17.1	16.0
10.0	11.9	11.9	12.3	12.6	11.9
6.3	7.8	7.5	7.8	7.8	7.5
1.5	2.6	1.5	2.3	1.8	1.5
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

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
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

