

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: P227094

Luminaire Tested: **IST-AF-350-LED-E1-SL4-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35947)-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-350-LED-E1-SL4-7030-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3714.4 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U5 - G1

Input Watts (W): 36.79
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

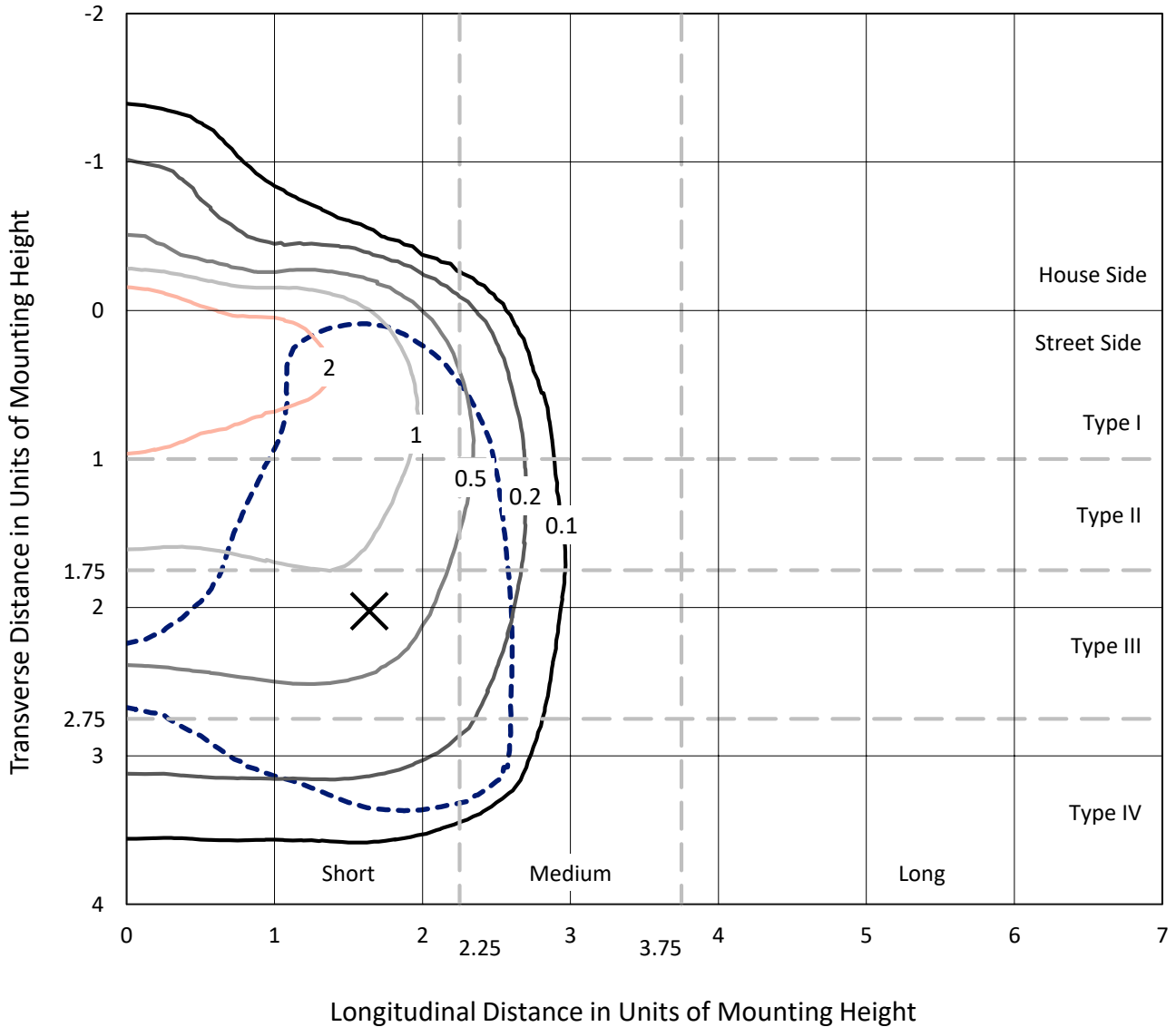


REPORT NUMBER: P227094

CATALOG NUMBER: IST-AF-350-LED-E1-SL4-7030-ULG

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

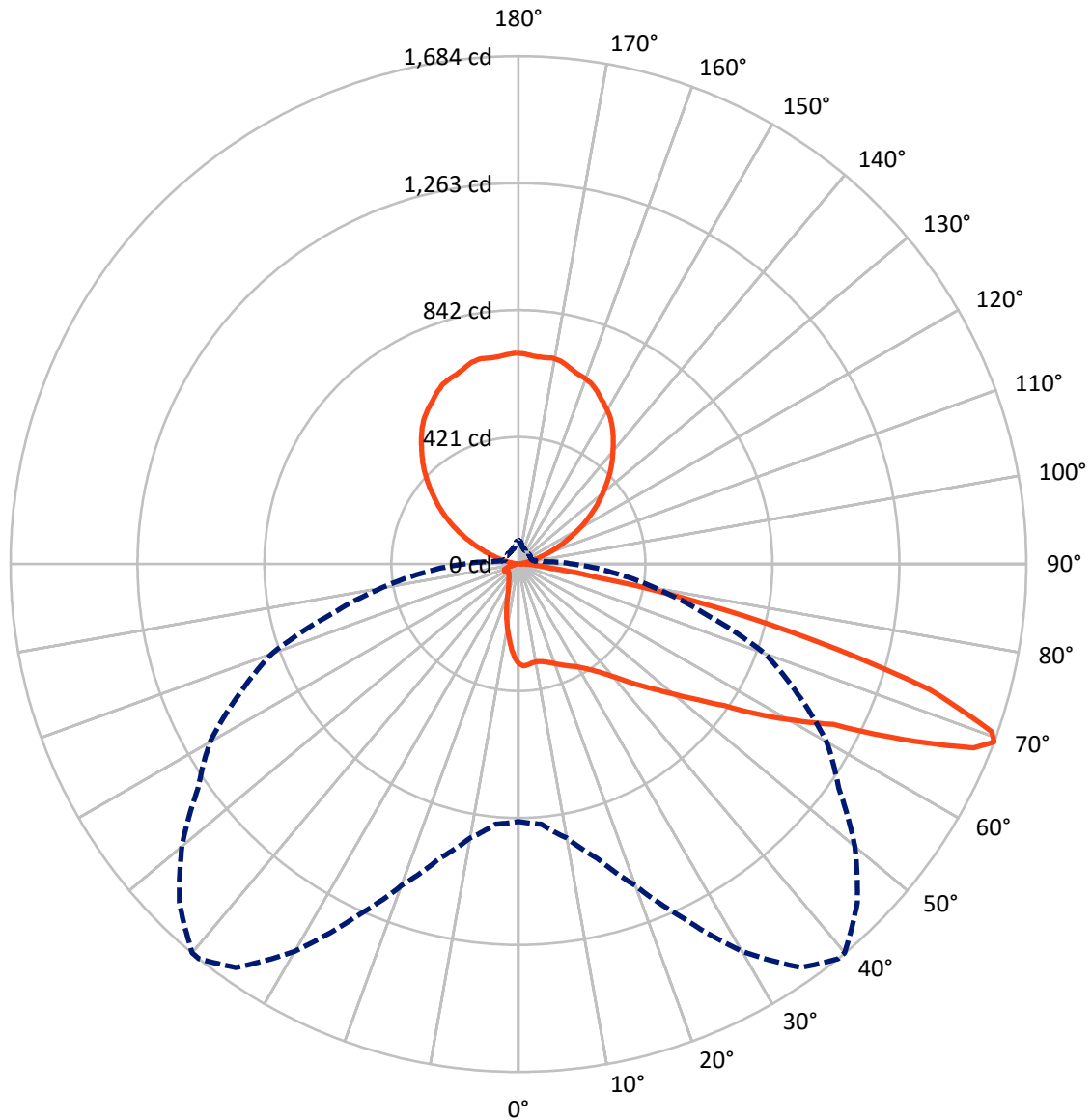


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P227094

CATALOG NUMBER: IST-AF-350-LED-E1-SL4-7030-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P227094

CATALOG NUMBER: IST-AF-350-LED-E1-SL4-7030-ULG

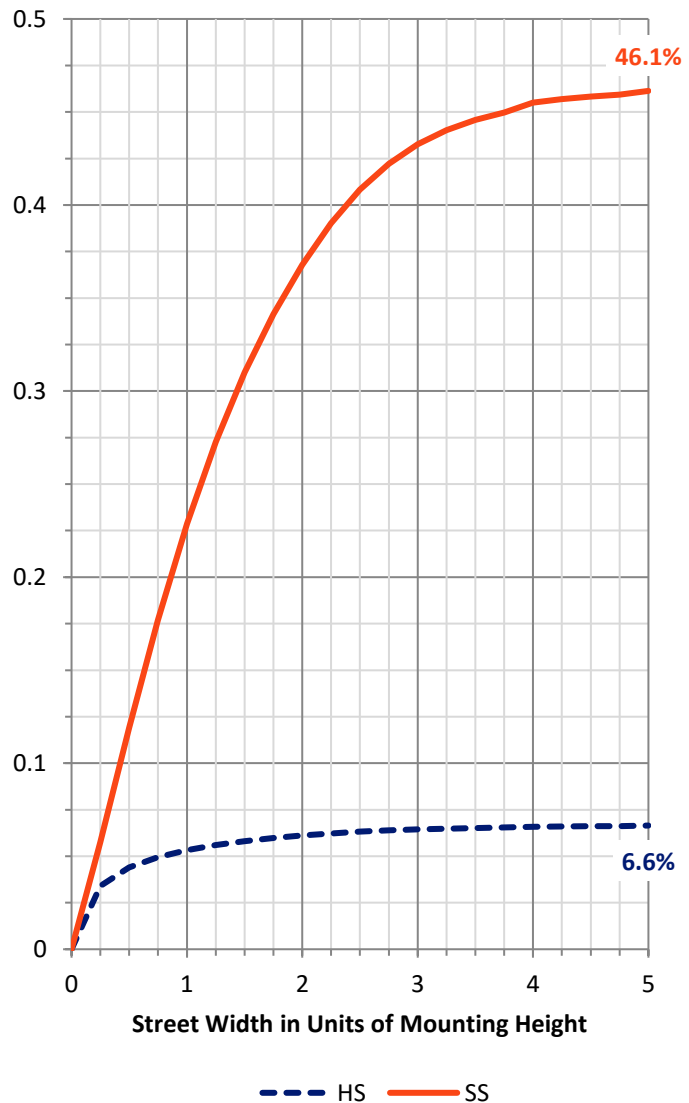
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	250.8	867.6	1118.4
	% Fixture	6.8	23.4	30.1
Street Side	Lumens	1727.9	868.1	2596.0
	% Fixture	46.5	23.4	69.9
Total	Lumens	1978.7	1735.7	3714.4
	% Fixture	53.3	46.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.6	0.8
10°-20°	72.1	1.9
20°-30°	112.3	3.0
30°-40°	169.7	4.6
40°-50°	271.5	7.3
50°-60°	426.7	11.5
60°-70°	574.5	15.5
70°-80°	285.0	7.7
80°-90°	38.5	1.0
90°-100°	9.8	0.3
100°-110°	57.4	1.5
110°-120°	166.1	4.5
120°-130°	273.2	7.4
130°-140°	336.8	9.1
140°-150°	344.6	9.3
150°-160°	290.3	7.8
160°-170°	191.2	5.1
170°-180°	66.3	1.8
0°-90°	1978.7	53.3
0°-180°	3714.4	100.0



REPORT NUMBER: P227094

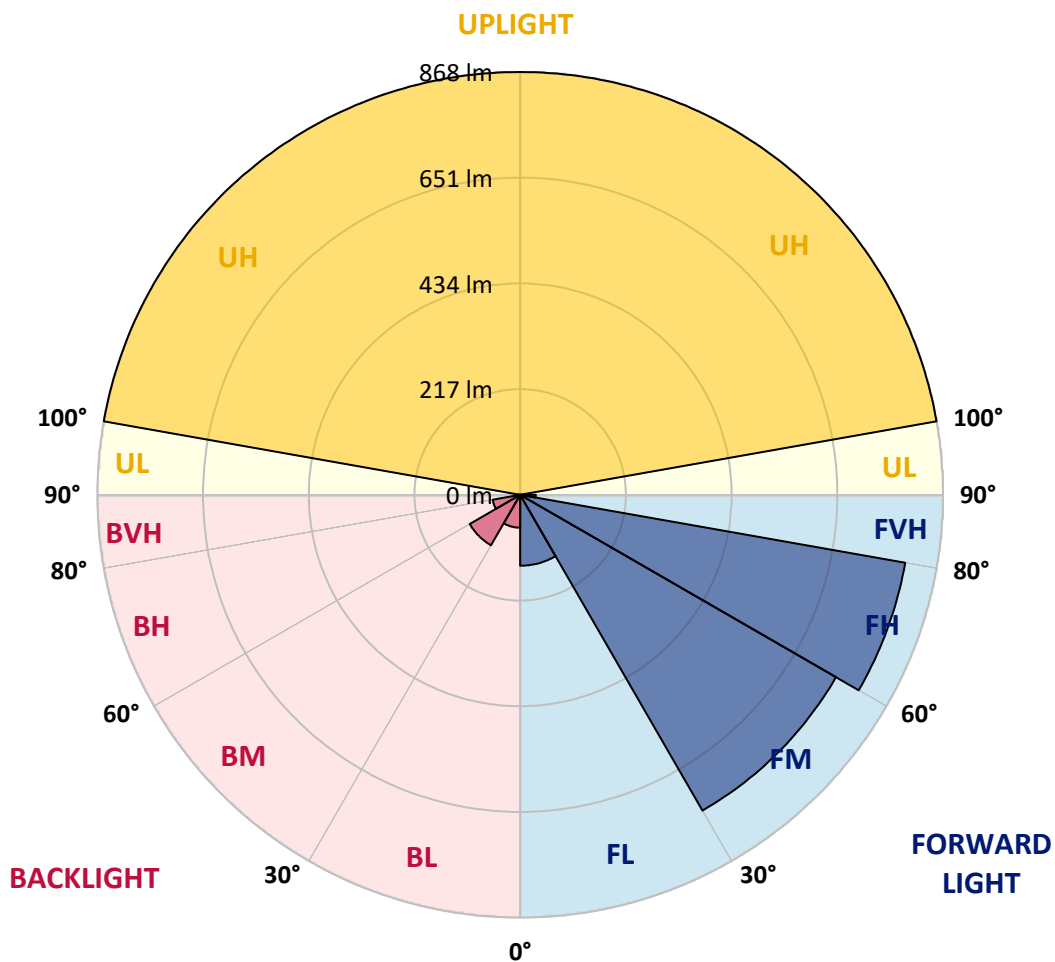
CATALOG NUMBER: IST-AF-350-LED-E1-SL4-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	145.4	3.9			
FM	(30°-60°)	748.2	20.1			
FH	(60°-80°)	802.2	21.6			G1/1800
FVH	(80°-90°)	32.0	0.9			G1/100
BL	(0°-30°)	67.5	1.8	B0/110		
BM	(30°-60°)	119.6	3.2	B0/220		
BH	(60°-80°)	57.3	1.5	B0/110		G0/110
BVH	(80°-90°)	6.4	0.2			G0/10
UL	(90°-100°)	9.8	0.3		U1/10	
UH	(100°-180°)	867.6	23.4		U4/1000	

BUG Rating: B0-U5-G1

Type IV Short





REPORT NUMBER: P227094

CATALOG NUMBER: IST-AF-350-LED-E1-SL4-7030-ULG

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
0°	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3
2.5°	339.4	339.7	339.7	340.0	338.7	338.7	339.1	337.8	338.4	338.1	336.5
5°	340.0	340.3	340.0	340.3	338.7	338.1	336.8	335.2	335.8	335.5	333.3
7.5°	338.4	338.7	338.1	338.4	336.5	335.2	333.3	332.0	331.0	330.7	327.8
10°	334.9	335.8	334.6	335.5	333.9	332.6	331.7	330.4	329.7	329.4	326.2
12.5°	329.7	330.4	330.7	332.0	332.0	332.3	332.3	331.3	331.7	331.3	328.8
15°	324.9	327.2	329.4	330.7	333.3	334.9	336.2	335.8	336.8	336.5	334.9
17.5°	324.9	326.8	330.7	334.9	339.7	341.9	343.9	343.9	344.2	343.5	341.0
20°	326.2	329.7	336.2	343.2	349.0	353.5	354.8	354.5	353.2	353.2	348.7
22.5°	336.8	339.1	346.1	353.8	361.8	366.3	366.7	365.7	363.1	362.5	357.0
25°	351.9	354.5	360.9	370.8	376.9	380.5	379.5	376.3	373.7	371.5	365.7
27.5°	375.3	377.3	383.7	390.4	394.0	395.2	391.4	386.9	384.0	383.0	375.3
30°	399.4	402.0	407.1	411.3	414.2	410.3	404.2	399.1	396.5	395.9	388.8
32.5°	429.0	429.3	432.8	433.8	434.1	427.7	419.3	414.5	413.5	412.3	406.8
35°	455.9	457.5	456.9	456.6	453.7	445.6	438.6	435.7	434.7	434.4	429.9
37.5°	480.0	482.6	481.0	478.1	474.5	468.1	460.7	457.5	460.7	458.8	459.8
40°	503.4	503.4	501.5	499.9	495.7	489.6	487.1	487.4	492.5	493.8	495.1
42.5°	523.7	523.3	521.4	520.1	519.5	518.2	516.9	523.0	533.0	534.9	537.8
45°	545.8	545.5	538.1	540.7	545.2	546.1	550.6	564.8	577.0	577.9	584.0
47.5°	567.3	564.8	557.7	560.3	573.1	579.9	587.2	607.1	624.2	627.7	644.7
50°	589.8	587.2	579.5	584.3	602.3	614.8	632.2	659.8	683.2	688.1	710.2
52.5°	613.2	612.9	606.8	614.2	636.4	661.7	689.0	720.2	748.7	754.8	787.6
55°	641.5	639.9	637.3	646.3	677.8	711.8	754.5	796.9	828.0	839.0	872.0
57.5°	673.3	672.6	673.0	691.6	729.5	781.2	833.5	890.6	942.0	949.7	980.5
60°	700.9	702.2	709.6	738.8	786.3	856.3	929.8	1007.2	1052.8	1060.8	1091.0
62.5°	734.6	742.0	758.4	795.3	851.2	935.9	1031.3	1113.2	1171.9	1188.3	1245.4
65°	815.5	821.3	851.8	896.4	967.7	1076.2	1185.7	1304.8	1401.8	1416.6	1465.7
67.5°	874.6	889.4	937.2	1010.1	1113.2	1251.9	1402.1	1546.3	1628.1	1634.9	1600.5
69°	854.0	866.2	922.8	1010.7	1135.0	1296.5	1483.3	1633.9	1684.3	1683.1	1589.6
70°	822.6	833.8	896.1	981.5	1116.7	1291.3	1484.6	1634.6	1665.1	1653.5	1546.6
72.5°	689.0	699.0	757.4	846.7	977.7	1151.0	1333.1	1435.5	1429.1	1419.5	1242.9
75°	430.2	429.6	480.6	532.3	634.1	809.4	944.9	1027.1	1013.9	1006.6	797.9
77.5°	160.9	172.1	190.7	246.3	293.1	387.9	497.3	588.8	614.2	581.8	429.6
80°	83.8	89.9	102.1	121.7	140.0	160.2	192.6	247.9	256.5	239.2	173.4
82.5°	66.1	73.5	85.7	102.4	115.3	107.6	101.5	105.0	104.3	99.5	88.3
85°	50.1	58.8	78.7	95.7	114.0	96.3	76.7	67.1	59.7	60.0	63.9
87.5°	25.0	32.4	62.0	83.5	99.2	63.9	50.1	38.8	32.4	31.1	41.7
90°	12.7	12.7	18.5	23.4	30.0	19.2	18.9	16.3	13.7	13.6	16.6
92.5°	4.0	4.0	4.5	5.0	5.5	6.0	6.0	6.0	6.0	6.0	6.0
95°	5.0	5.0	5.5	6.0	6.5	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	7.0	7.0	7.5	8.0	8.0	8.0	8.5	9.0	9.0	9.0	9.0
100°	8.0	8.0	8.5	9.0	9.5	10.0	11.0	12.0	15.6	16.5	21.0
102.5°	11.0	11.0	12.0	13.0	15.5	18.0	22.5	27.0	32.2	33.5	40.0
105°	21.0	22.0	24.5	27.0	31.5	36.0	42.0	48.0	54.0	55.5	63.0
107.5°	41.0	42.0	45.5	49.0	53.5	58.0	65.5	73.0	79.0	80.5	88.0

REPORT NUMBER: P227094

CATALOG NUMBER: IST-AF-350-LED-E1-SL4-7030-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
110°	66.0	68.0	71.0	74.0	80.5	87.0	94.5	102.0	106.8	108.0	114.0
112.5°	99.0	99.0	102.5	106.0	113.5	121.0	127.5	134.0	137.6	138.5	143.0
115°	140.0	139.0	143.0	147.0	153.0	159.0	163.5	168.0	170.4	171.0	174.0
117.5°	184.0	184.0	186.5	189.0	193.0	197.0	199.5	202.0	203.2	203.5	205.0
120°	225.0	223.0	224.5	226.0	229.5	233.0	235.0	237.0	239.4	240.0	243.0
122.5°	263.0	260.0	260.5	261.0	264.0	267.0	269.0	271.0	273.4	274.0	277.0
125°	298.0	294.0	295.0	296.0	297.5	299.0	302.0	305.0	307.0	307.5	310.0
127.5°	330.0	329.0	329.0	329.0	331.0	333.0	336.0	339.0	339.4	339.5	340.0
130°	363.0	361.0	361.5	362.0	364.0	366.0	368.0	370.0	370.8	371.0	372.0
132.5°	396.0	394.0	393.5	393.0	397.0	401.0	402.5	404.0	404.4	404.5	405.0
135°	429.0	426.0	426.0	426.0	429.0	432.0	433.5	435.0	435.8	436.0	437.0
137.5°	460.0	457.0	458.0	459.0	459.5	460.0	462.0	464.0	465.6	466.0	468.0
140°	488.0	485.0	486.0	487.0	488.0	489.0	490.0	491.0	493.4	494.0	497.0
142.5°	518.0	515.0	516.0	517.0	517.5	518.0	519.5	521.0	522.6	523.0	525.0
145°	550.0	546.0	545.0	544.0	545.5	547.0	548.5	550.0	550.4	550.5	551.0
147.5°	575.0	572.0	571.5	571.0	572.5	574.0	574.0	574.0	574.4	574.5	575.0
150°	595.0	592.0	592.5	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
152.5°	611.0	608.0	608.0	608.0	608.5	609.0	609.5	610.0	610.0	610.0	610.0
155°	629.0	625.0	625.0	625.0	626.0	627.0	628.5	630.0	629.2	629.0	628.0
157.5°	646.0	643.0	643.0	643.0	643.5	644.0	645.0	646.0	645.6	645.5	645.0
160°	663.0	660.0	659.5	659.0	657.5	656.0	655.5	655.0	655.0	655.0	655.0
162.5°	673.0	669.0	669.0	669.0	667.0	665.0	663.0	661.0	661.8	662.0	663.0
165°	681.0	678.0	677.0	676.0	676.0	676.0	674.5	673.0	673.0	673.0	673.0
167.5°	690.0	687.0	685.5	684.0	685.0	686.0	687.0	688.0	686.8	686.5	685.0
170°	698.0	695.0	693.5	692.0	692.0	692.0	692.5	693.0	692.2	692.0	691.0
172.5°	699.0	697.0	696.0	695.0	694.0	693.0	691.5	690.0	690.0	690.0	690.0
175°	700.0	698.0	697.5	697.0	696.0	695.0	693.0	691.0	690.6	690.5	690.0
177.5°	707.0	705.0	702.5	700.0	699.5	699.0	698.0	697.0	696.2	696.0	695.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



REPORT NUMBER: P227094

CATALOG NUMBER: IST-AF-350-LED-E1-SL4-7030-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3
2.5°	335.2	335.2	334.6	334.2	333.3	332.0	331.0	329.4	328.5	326.8	324.9
5°	331.0	329.7	329.1	327.8	325.9	324.3	322.4	320.1	317.5	314.3	310.8
7.5°	325.6	323.6	321.4	320.7	318.5	316.6	314.3	311.1	307.6	301.8	297.3
10°	323.3	321.4	319.5	318.2	315.3	313.0	310.5	306.3	301.8	294.1	285.8
12.5°	325.6	323.6	321.7	319.5	316.9	314.3	310.8	305.7	299.6	289.6	279.3
15°	331.0	329.1	325.9	323.6	320.1	317.9	313.0	307.3	298.3	286.1	272.6
17.5°	337.1	334.2	331.3	327.8	324.6	321.7	316.6	309.2	298.0	283.5	266.2
20°	342.9	339.7	335.2	332.6	329.4	325.2	319.8	310.8	297.3	278.4	259.4
22.5°	349.6	345.5	340.7	337.8	335.2	331.7	325.2	313.7	297.3	275.5	251.7
25°	358.3	352.9	348.0	345.2	343.5	341.0	333.3	320.4	299.6	273.9	245.3
27.5°	368.6	361.5	357.4	355.4	355.1	353.2	345.5	329.4	304.7	273.9	239.2
30°	380.8	374.7	369.2	369.2	373.1	371.8	363.1	343.2	312.7	274.8	234.7
32.5°	397.8	391.7	388.5	391.7	395.9	397.2	387.2	362.8	325.9	279.3	230.2
35°	422.8	419.0	416.7	421.6	429.9	433.1	420.9	392.0	345.2	288.0	227.6
37.5°	455.9	453.0	450.1	458.5	474.2	480.6	463.0	425.7	372.8	302.4	226.4
40°	493.8	494.1	497.3	514.0	529.1	542.6	522.7	476.8	410.6	323.0	227.6
42.5°	538.8	542.3	553.2	576.3	605.5	616.1	596.9	538.4	457.8	347.7	230.8
45°	594.6	603.9	622.6	656.9	692.2	708.6	681.3	616.1	517.2	387.2	239.8
47.5°	654.0	674.6	706.0	747.8	788.9	799.5	765.8	686.4	575.4	422.2	253.6
50°	730.1	755.2	786.6	836.7	880.4	886.8	842.2	751.6	626.1	452.7	266.8
52.5°	801.1	835.1	875.2	933.4	977.7	969.6	911.8	809.7	666.2	473.6	274.2
55°	898.0	933.4	978.6	1029.4	1073.3	1054.1	975.1	859.2	698.3	489.0	276.4
57.5°	1008.8	1035.8	1080.1	1132.1	1161.0	1127.9	1037.4	907.3	728.8	489.3	258.8
60°	1117.6	1149.1	1197.9	1249.0	1265.0	1207.9	1080.7	914.7	698.6	436.7	207.1
62.5°	1278.8	1310.6	1335.3	1343.7	1314.8	1199.8	1030.3	836.7	602.3	344.5	146.7
65°	1458.9	1423.0	1375.1	1330.2	1251.5	1076.9	888.4	687.4	467.5	230.2	101.1
67.5°	1506.1	1396.7	1292.6	1192.5	1045.7	857.6	670.1	483.5	299.9	131.0	68.7
69°	1457.0	1297.1	1181.2	1022.3	870.7	641.8	461.7	309.8	179.2	91.2	57.5
70°	1367.1	1200.8	1043.8	873.6	674.6	490.3	306.9	202.9	116.9	66.5	51.7
72.5°	1031.6	824.8	635.7	412.9	251.7	139.7	98.2	70.3	55.5	48.8	44.3
75°	596.5	397.2	260.1	138.7	82.2	61.0	53.3	47.5	44.0	42.4	38.5
77.5°	251.7	157.3	106.6	78.0	55.2	47.2	41.1	37.9	37.6	36.6	33.1
80°	114.6	98.2	83.8	58.8	42.1	36.0	31.5	30.8	31.5	30.5	27.0
82.5°	85.1	83.8	70.0	45.3	32.1	24.1	19.6	20.5	23.1	25.0	21.8
85°	71.0	71.0	58.8	33.7	21.2	15.4	15.1	17.0	19.3	20.9	17.7
87.5°	65.2	62.6	33.7	17.3	12.2	10.0	9.3	8.3	8.3	14.4	12.2
90°	13.4	9.9	9.6	10.3	10.6	10.3	9.9	8.6	8.6	8.6	9.6
92.5°	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0	8.0	8.0	8.5
100°	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0	19.0	19.0	21.0
102.5°	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0	38.0	39.0	40.5
105°	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0	61.0	61.0	63.0
107.5°	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0	86.0	87.0	88.5



REPORT NUMBER: P227094

CATALOG NUMBER: IST-AF-350-LED-E1-SL4-7030-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	117.0	116.0	117.5
112.5°	145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	147.0	147.0	148.0
115°	176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	178.0	177.0	178.0
117.5°	208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	209.0	208.0	209.0
120°	244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	243.0	243.0	244.0
122.5°	278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	277.0	276.0	277.0
125°	311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	310.0	310.0	310.0
127.5°	342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	347.0	345.0	345.5
130°	374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	380.0	379.0	380.0
132.5°	408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	415.0	414.0	414.0
135°	440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	451.0	450.0	448.5
137.5°	470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	482.0	481.0	478.5
140°	498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	511.0	509.0	506.5
142.5°	526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	536.0	534.0	533.5
145°	553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	560.0	558.0	559.5
147.5°	577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	585.0	583.0	584.5
150°	595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	610.0	606.0	604.5
152.5°	610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	628.0	623.0	620.5
155°	627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	641.0	638.0	637.0
157.5°	644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	655.0	650.0	650.0
160°	656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	666.0	660.0	660.5
162.5°	665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	674.0	668.0	669.0
165°	672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	682.0	678.0	679.0
167.5°	681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	694.0	688.0	688.0
170°	688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	701.0	696.0	695.0
172.5°	689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	701.0	696.0	695.0
175°	690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	699.0	694.0	695.0
177.5°	694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	702.0	698.0	699.5
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



REPORT NUMBER: P227094

CATALOG NUMBER: IST-AF-350-LED-E1-SL4-7030-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3
2.5°	323.3	322.0	318.8	318.2	317.2	315.9	315.6	314.0	310.8	310.2	310.5
5°	308.5	303.4	299.9	297.0	294.7	289.0	286.7	284.1	279.7	278.4	276.4
7.5°	291.2	285.1	278.0	272.9	266.8	260.7	255.9	249.8	245.0	242.1	236.9
10°	277.7	269.4	260.1	249.8	241.8	232.5	226.4	219.3	211.6	204.5	199.4
12.5°	267.5	255.9	242.4	230.2	218.6	208.7	197.8	187.8	178.2	168.6	160.2
15°	259.1	244.7	227.6	212.2	198.1	183.3	171.1	157.3	145.1	136.8	126.2
17.5°	250.1	231.5	211.3	193.3	175.0	159.6	144.2	129.7	118.2	107.2	98.6
20°	239.2	216.7	194.9	174.0	153.2	135.5	119.8	106.0	94.7	86.0	79.6
22.5°	227.0	200.7	175.3	152.5	131.6	114.3	99.5	89.3	80.9	76.1	74.2
25°	215.1	184.9	156.4	131.3	110.4	95.7	85.7	77.1	72.9	71.0	71.0
27.5°	204.2	168.9	137.1	112.7	92.5	80.9	73.2	69.7	67.7	67.7	68.7
30°	193.9	152.8	118.8	94.1	78.0	69.4	65.2	63.9	64.2	65.5	66.8
32.5°	182.0	137.4	103.1	80.9	67.7	62.0	58.8	59.1	60.7	62.9	65.2
35°	169.5	121.0	89.3	71.0	60.7	56.2	54.3	54.6	56.8	59.7	62.0
37.5°	158.3	107.9	78.7	63.3	55.5	52.7	51.1	51.4	53.0	56.5	59.4
40°	147.1	96.6	70.0	58.8	52.7	49.8	48.8	48.5	49.8	53.0	56.5
42.5°	137.4	87.0	64.9	55.5	50.7	48.2	46.9	46.9	47.5	50.1	53.6
45°	131.6	81.2	61.3	53.3	49.1	46.9	45.6	44.9	45.9	47.5	50.7
47.5°	131.6	78.3	59.1	51.7	47.8	45.9	44.3	44.0	44.3	45.9	49.1
50°	136.1	79.0	58.8	51.1	47.2	44.6	43.0	43.0	43.7	45.9	48.5
52.5°	140.0	80.3	59.7	51.7	47.2	44.0	42.1	41.7	42.7	44.9	47.2
55°	139.3	80.3	60.7	52.7	48.2	44.3	41.7	41.4	42.1	44.3	46.6
57.5°	124.6	75.5	59.7	53.3	49.4	45.9	43.3	42.4	43.0	44.9	46.9
60°	100.8	67.1	57.2	53.3	51.4	48.8	46.2	45.6	45.9	47.8	50.1
62.5°	79.0	59.7	53.9	53.0	52.3	51.1	50.1	49.4	49.4	51.1	53.0
65°	64.2	53.9	51.4	51.7	52.3	52.0	51.7	51.4	51.4	52.3	54.3
67.5°	53.6	48.5	47.8	48.8	49.4	49.8	50.1	49.8	50.1	51.1	53.3
69°	48.8	45.6	44.9	45.6	46.9	47.2	47.8	47.5	47.8	48.8	51.1
70°	45.9	43.3	42.7	43.7	44.6	44.9	45.6	45.3	45.6	46.6	48.8
72.5°	39.8	36.9	36.0	36.6	37.6	37.6	38.5	38.8	38.2	38.5	40.1
75°	34.0	30.8	29.2	29.5	29.5	29.5	30.2	30.2	29.5	29.2	29.5
77.5°	28.6	25.0	23.1	23.1	23.1	22.8	21.8	22.2	22.5	22.2	22.5
80°	22.5	19.6	17.7	17.7	17.7	17.0	16.7	16.7	17.3	18.0	17.7
82.5°	17.3	14.4	13.5	13.2	13.2	12.5	12.5	13.2	12.8	13.2	13.8
85°	12.5	10.3	9.3	9.6	9.3	8.7	9.0	10.0	10.0	9.6	10.3
87.5°	7.7	6.4	6.1	6.4	5.8	4.8	4.5	4.8	5.5	5.1	5.8
90°	10.0	9.6	9.6	8.6	8.0	7.6	7.6	8.1	9.0	9.0	8.6
92.5°	6.0	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	9.0	9.5	10.0	11.0	12.0	10.5	9.0	9.0	9.0	8.5	8.0
100°	23.0	24.5	26.0	27.5	29.0	25.0	21.0	16.5	12.0	11.0	10.0
102.5°	42.0	44.5	47.0	48.5	50.0	45.0	40.0	33.5	27.0	22.5	18.0
105°	65.0	67.5	70.0	71.0	72.0	67.5	63.0	55.5	48.0	42.0	36.0
107.5°	90.0	92.0	94.0	94.5	95.0	91.5	88.0	80.5	73.0	65.5	58.0



REPORT NUMBER: P227094
 CATALOG NUMBER: IST-AF-350-LED-E1-SL4-7030-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	119.0	120.0	121.0	120.5	120.0	117.0	114.0	108.0	102.0	94.5	87.0	0°
112.5°	149.0	149.5	150.0	149.0	148.0	145.5	143.0	138.5	134.0	127.5	121.0	2.5°
115°	179.0	180.5	182.0	180.5	179.0	176.5	174.0	171.0	168.0	163.5	159.0	5°
117.5°	210.0	212.5	215.0	213.0	211.0	208.0	205.0	203.5	202.0	199.5	197.0	7.5°
120°	245.0	247.5	250.0	248.0	246.0	244.5	243.0	240.0	237.0	235.0	233.0	10°
122.5°	278.0	280.5	283.0	281.0	279.0	278.0	277.0	274.0	271.0	269.0	267.0	12.5°
125°	310.0	312.5	315.0	314.0	313.0	311.5	310.0	307.5	305.0	302.0	299.0	15°
127.5°	346.0	346.0	346.0	345.5	345.0	342.5	340.0	339.5	339.0	336.0	333.0	17.5°
130°	381.0	381.0	381.0	379.0	377.0	374.5	372.0	371.0	370.0	368.0	366.0	20°
132.5°	414.0	415.0	416.0	413.5	411.0	408.0	405.0	404.5	404.0	402.5	401.0	22.5°
135°	447.0	447.5	448.0	445.5	443.0	440.0	437.0	436.0	435.0	433.5	432.0	25°
137.5°	476.0	475.5	475.0	474.0	473.0	470.5	468.0	466.0	464.0	462.0	460.0	27.5°
140°	504.0	503.0	502.0	501.0	500.0	498.5	497.0	494.0	491.0	490.0	489.0	30°
142.5°	533.0	533.0	533.0	530.0	527.0	526.0	525.0	523.0	521.0	519.5	518.0	32.5°
145°	561.0	561.5	562.0	559.0	556.0	553.5	551.0	550.5	550.0	548.5	547.0	35°
147.5°	586.0	585.5	585.0	582.5	580.0	577.5	575.0	574.5	574.0	574.0	574.0	37.5°
150°	603.0	601.5	600.0	598.5	597.0	595.0	593.0	593.0	593.0	593.0	593.0	40°
152.5°	618.0	616.0	614.0	612.5	611.0	610.5	610.0	610.0	610.0	609.5	609.0	42.5°
155°	636.0	633.5	631.0	628.5	626.0	627.0	628.0	629.0	630.0	628.5	627.0	45°
157.5°	650.0	649.0	648.0	646.0	644.0	644.5	645.0	645.5	646.0	645.0	644.0	47.5°
160°	661.0	662.5	664.0	661.0	658.0	656.5	655.0	655.0	655.0	655.5	656.0	50°
162.5°	670.0	670.5	671.0	669.0	667.0	665.0	663.0	662.0	661.0	663.0	665.0	52.5°
165°	680.0	678.5	677.0	674.5	672.0	672.5	673.0	673.0	673.0	674.5	676.0	55°
167.5°	688.0	686.0	684.0	681.0	678.0	681.5	685.0	686.5	688.0	687.0	686.0	57.5°
170°	694.0	691.5	689.0	687.5	686.0	688.5	691.0	692.0	693.0	692.5	692.0	60°
172.5°	694.0	693.0	692.0	690.5	689.0	689.5	690.0	690.0	690.0	691.5	693.0	62.5°
175°	696.0	695.5	695.0	692.5	690.0	690.0	690.0	690.5	691.0	693.0	695.0	65°
177.5°	701.0	700.0	699.0	696.5	694.0	694.5	695.0	696.0	697.0	698.0	699.0	67.5°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	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: P227094
 NUMBER: IST-AF-350-LED-E1-SL4-7030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
331.3	331.3	331.3	331.3	331.3
308.2	309.2	305.0	306.9	305.7
274.5	272.9	272.6	271.6	269.7
235.0	233.7	229.9	231.2	228.3
194.2	193.9	186.9	187.2	183.7
156.7	150.9	148.0	143.8	146.1
121.4	116.5	110.4	108.8	111.1
91.5	86.7	83.8	81.2	80.3
75.8	72.9	71.3	70.3	69.7
73.2	72.6	72.2	71.6	71.3
71.6	72.2	72.2	72.2	71.6
70.0	71.3	71.6	71.3	70.6
68.4	69.4	69.4	69.0	68.1
66.1	67.1	67.1	66.8	66.1
63.6	64.2	64.5	64.5	64.9
61.6	62.3	62.9	63.6	64.5
59.4	60.4	60.7	62.0	63.3
56.5	57.8	58.4	59.4	60.7
53.6	55.2	55.5	56.8	58.1
52.3	53.6	53.6	54.6	55.5
50.7	51.4	51.1	51.7	52.0
49.1	49.8	49.4	50.1	50.4
47.8	48.5	49.1	49.8	50.1
48.5	49.4	49.8	50.7	51.1
51.4	52.7	53.9	55.2	56.2
54.3	55.9	58.8	64.5	66.8
55.9	58.1	64.9	74.8	77.7
54.9	57.8	65.8	76.4	79.9
53.0	55.2	63.9	74.8	78.0
50.4	52.7	61.3	73.2	76.1
40.8	42.1	51.7	62.9	64.9
29.9	30.8	38.2	42.7	42.4
23.1	24.4	27.0	27.3	27.0
18.3	18.9	20.2	20.2	20.5
14.1	14.4	15.1	14.4	14.1
10.6	10.3	10.0	9.6	9.3
6.1	6.1	5.1	4.5	4.2
8.1	8.0	7.0	5.6	5.0
5.5	5.0	4.5	4.0	4.0
6.5	6.0	5.5	5.0	5.0
8.0	8.0	7.5	7.0	7.0
9.5	9.0	8.5	8.0	8.0
15.5	13.0	12.0	11.0	11.0
31.5	27.0	24.5	22.0	21.0
53.5	49.0	45.5	42.0	41.0

CANDELA DISTRIBUTION:

	160°
110°	80.5
112.5°	113.5
115°	153.0
117.5°	193.0
120°	229.5
122.5°	264.0
125°	297.5
127.5°	331.0
130°	364.0
132.5°	397.0
135°	429.0
137.5°	459.5
140°	488.0
142.5°	517.5
145°	545.5
147.5°	572.5
150°	593.0
152.5°	608.5
155°	626.0
157.5°	643.5
160°	657.5
162.5°	667.0
165°	676.0
167.5°	685.0
170°	692.0
172.5°	694.0
175°	696.0
177.5°	699.5
180°	700.0

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IST-AF-350-LED-E1-SL4-7030-ULG

TION (continued):

165°	170°	175°	180°
74.0	71.0	68.0	66.0
106.0	102.5	99.0	99.0
147.0	143.0	139.0	140.0
189.0	186.5	184.0	184.0
226.0	224.5	223.0	225.0
261.0	260.5	260.0	263.0
296.0	295.0	294.0	298.0
329.0	329.0	329.0	330.0
362.0	361.5	361.0	363.0
393.0	393.5	394.0	396.0
426.0	426.0	426.0	429.0
459.0	458.0	457.0	460.0
487.0	486.0	485.0	488.0
517.0	516.0	515.0	518.0
544.0	545.0	546.0	550.0
571.0	571.5	572.0	575.0
593.0	592.5	592.0	595.0
608.0	608.0	608.0	611.0
625.0	625.0	625.0	629.0
643.0	643.0	643.0	646.0
659.0	659.5	660.0	663.0
669.0	669.0	669.0	673.0
676.0	677.0	678.0	681.0
684.0	685.5	687.0	690.0
692.0	693.5	695.0	698.0
695.0	696.0	697.0	699.0
697.0	697.5	698.0	700.0
700.0	702.5	705.0	707.0
700.0	700.0	700.0	700.0

(END OF REPORT)