

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: P226831

Luminaire Tested: **IST-AF-350-LED-E1-SL2-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226831
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-350-LED-E1-SL2-8030-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) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3706.2 lumens
Efficiency: N/A
Efficacy: 100.7 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): 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

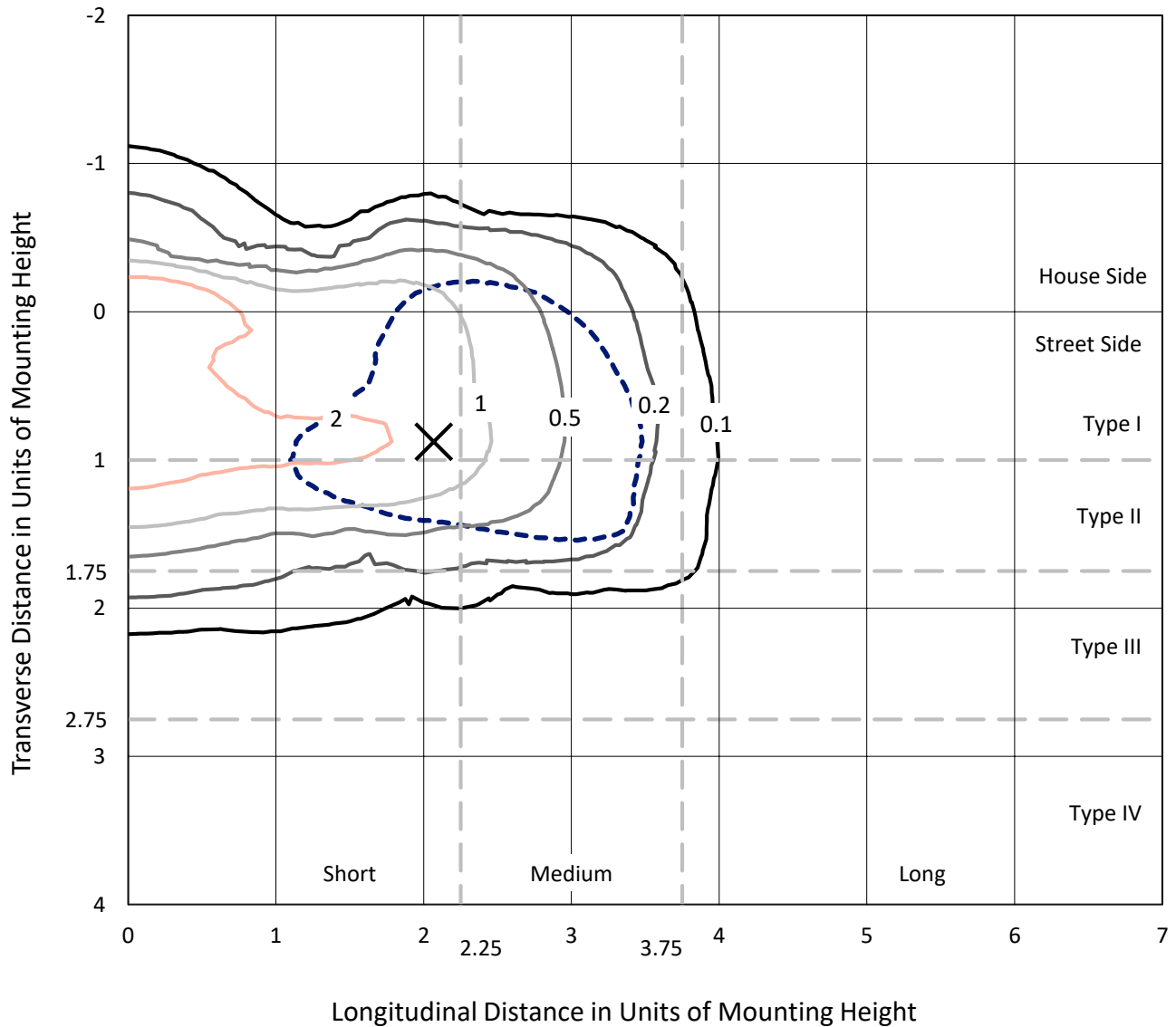


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Iso-Footcandle Lines of Horizontal Illumination

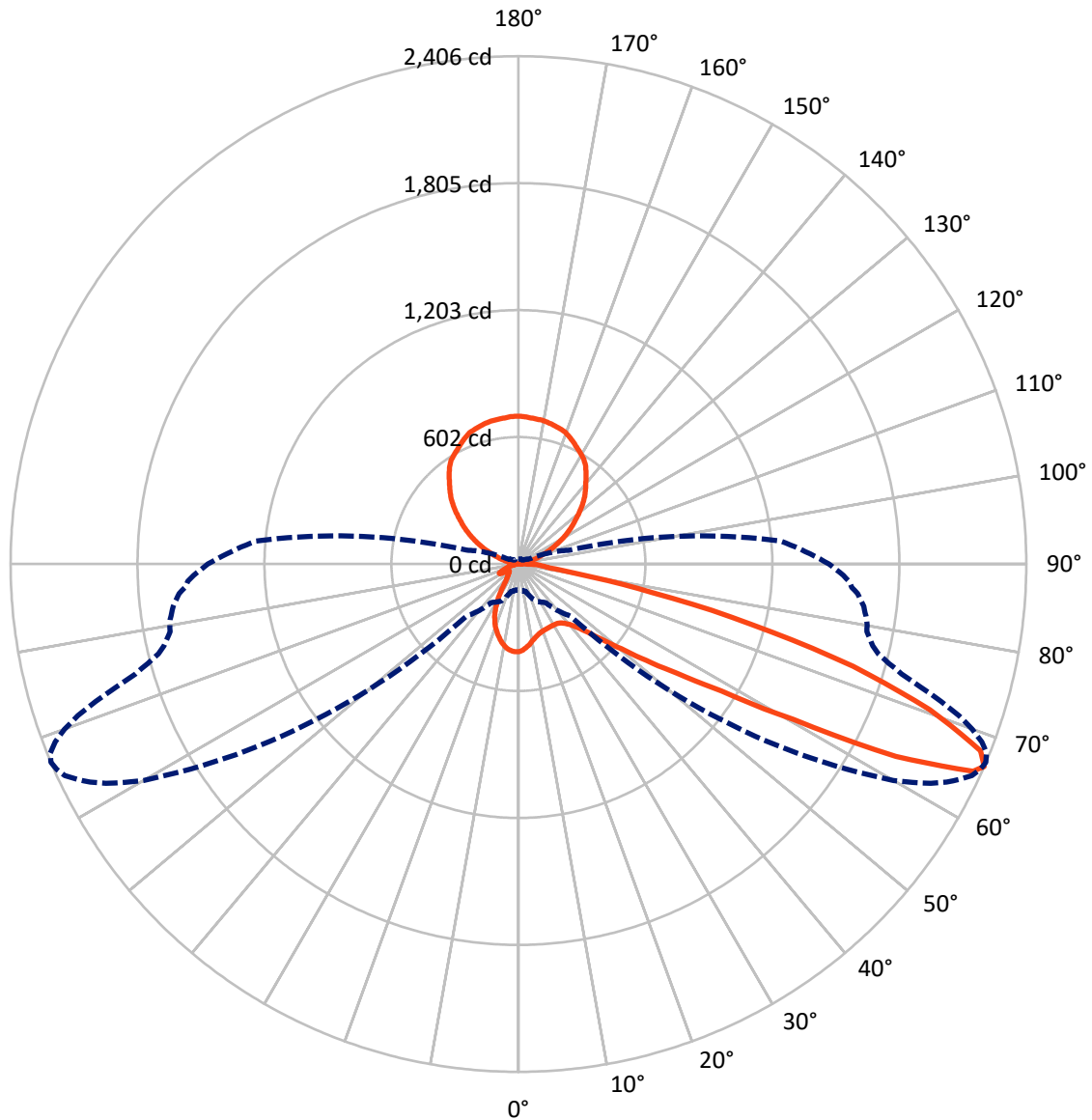
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 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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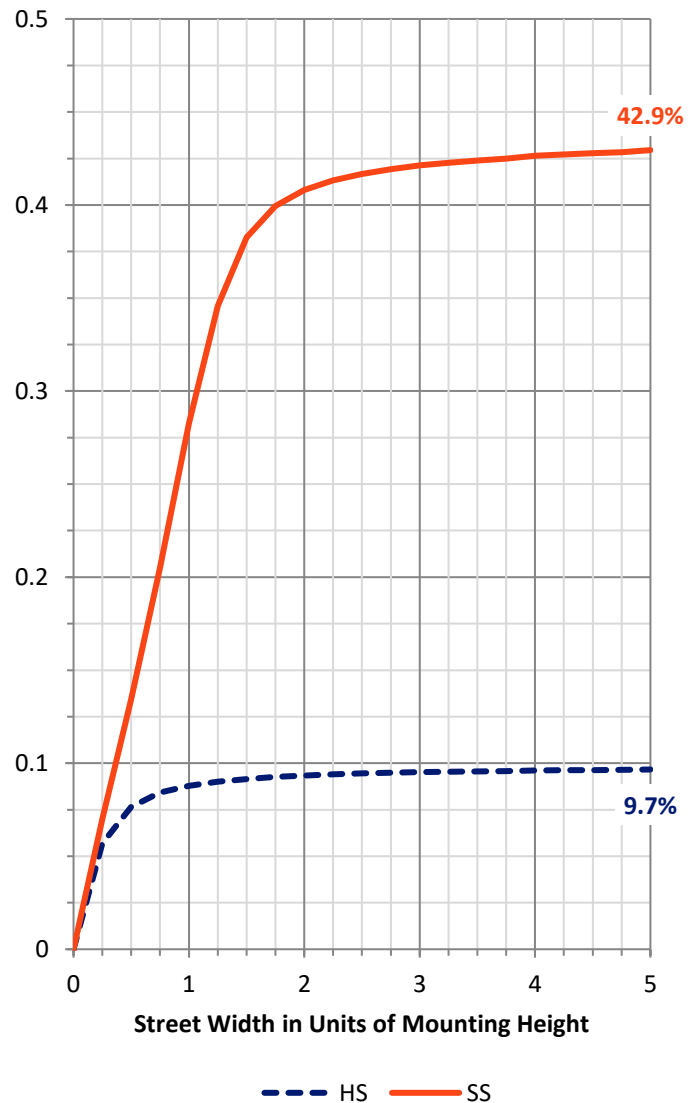
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	364.3	867.7	1232.0
	% Fixture	9.8	23.4	33.2
Street Side	Lumens	1606.1	868.1	2474.2
	% Fixture	43.3	23.4	66.8
Total	Lumens	1970.3	1735.9	3706.2
	% Fixture	53.2	46.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	1.0
10°-20°	85.6	2.3
20°-30°	117.4	3.2
30°-40°	167.7	4.5
40°-50°	271.9	7.3
50°-60°	430.7	11.6
60°-70°	545.8	14.7
70°-80°	271.3	7.3
80°-90°	44.0	1.2
90°-100°	10.0	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	5.2
170°-180°	66.3	1.8
0°-90°	1970.3	53.2
0°-180°	3706.2	100.0



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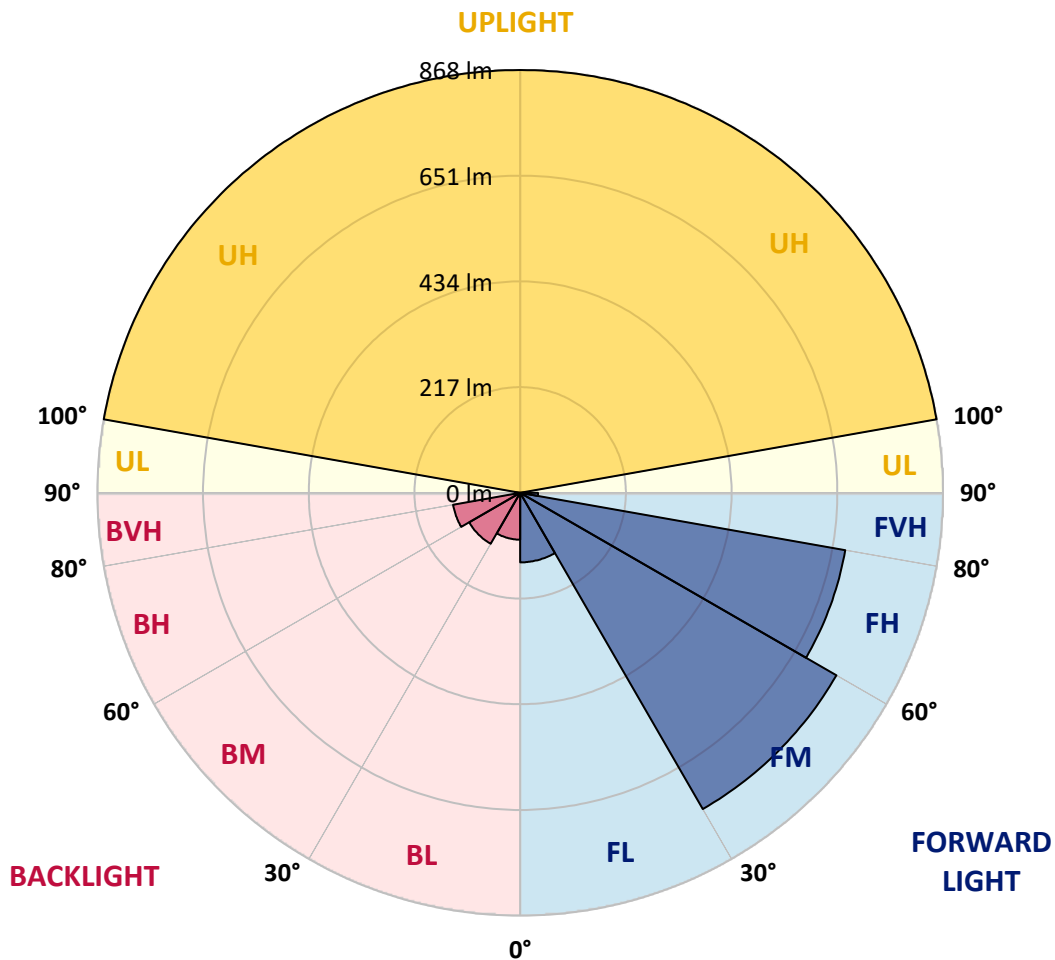
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	142.7	3.9			
FM (30°-60°)	749.4	20.2			
FH (60°-80°)	677.4	18.3			G1/1800
FVH (80°-90°)	36.6	1.0			G1/100
BL (0°-30°)	96.2	2.6	B0/110		
BM (30°-60°)	120.8	3.3	B0/220		
BH (60°-80°)	139.8	3.8	B1/500		G1/500
BVH (80°-90°)	7.4	0.2			G0/10
UL (90°-100°)	10.0	0.3		U1/10	
UH (100°-180°)	867.7	23.4		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°	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7
2.5°	385.4	386.2	391.3	393.9	397.8	399.0	403.4	405.2	406.7	406.4	406.4
5°	350.7	353.4	355.8	361.1	366.7	373.5	382.1	388.6	389.8	391.3	392.2
7.5°	324.4	326.2	330.3	334.2	341.3	350.7	362.9	371.2	372.9	373.5	375.6
10°	305.7	306.9	310.5	315.5	323.8	333.0	345.7	354.3	356.9	358.1	359.9
12.5°	291.2	293.0	296.3	301.6	310.5	319.9	333.3	341.9	343.6	345.1	347.8
15°	282.1	283.2	286.2	292.1	300.1	309.6	322.6	333.0	334.2	335.6	338.0
17.5°	280.3	281.2	283.0	287.4	293.6	302.8	316.1	324.7	326.8	328.8	331.2
20°	287.4	288.0	288.6	289.2	292.7	298.6	311.7	320.8	322.6	324.4	327.3
22.5°	302.8	303.7	302.2	300.1	297.5	298.6	309.6	319.1	320.2	322.0	324.4
25°	329.4	328.5	324.1	320.8	311.4	303.7	310.2	318.2	319.7	321.4	324.1
27.5°	360.8	359.6	356.9	348.1	332.4	316.7	313.7	319.7	320.5	322.0	324.4
30°	394.5	394.8	392.5	382.7	362.6	336.2	321.7	323.2	323.8	325.0	326.5
32.5°	425.0	429.5	429.2	428.6	399.9	362.6	337.1	331.2	330.3	331.2	331.8
35°	460.2	461.1	469.4	473.6	450.2	401.0	359.6	346.6	343.0	343.3	342.7
37.5°	498.1	499.3	513.5	520.6	502.6	444.9	389.5	369.4	366.1	362.9	360.5
40°	553.2	557.9	565.3	573.3	564.4	503.8	428.9	401.6	393.4	392.8	388.0
42.5°	635.5	634.0	630.4	636.9	626.3	569.8	476.5	447.2	441.0	432.7	426.2
45°	716.3	719.5	704.1	707.1	707.7	646.1	545.5	504.3	501.1	491.3	484.2
47.5°	770.7	767.2	746.5	761.5	798.5	735.2	625.4	582.2	575.4	570.3	565.9
50°	773.7	770.7	757.4	784.0	863.1	893.6	736.7	686.4	676.6	667.7	665.1
52.5°	701.5	697.3	701.8	755.9	886.4	1026.1	893.8	815.7	807.7	800.3	790.0
55°	572.7	577.4	598.5	676.3	850.6	1120.3	1203.1	1015.5	981.2	980.9	955.4
57.5°	427.7	422.9	438.6	511.7	760.1	1153.7	1487.3	1440.8	1364.2	1312.4	1249.9
60°	288.6	289.8	304.3	341.9	528.9	1117.3	1677.6	1839.5	1812.6	1801.6	1784.7
62.5°	200.1	201.9	215.2	250.4	309.3	898.9	1733.2	2063.0	2111.2	2151.2	2141.4
65°	140.0	140.3	153.6	208.1	231.7	461.7	1610.4	2092.5	2164.5	2233.1	2294.7
66°	123.4	123.7	134.7	193.6	222.3	348.4	1503.9	2051.4	2133.4	2213.3	2276.9
67.5°	105.7	107.4	116.0	164.6	213.1	268.7	1242.2	1928.6	2014.4	2102.3	2186.4
70°	72.5	73.1	80.8	133.5	199.5	235.9	708.0	1505.6	1624.3	1778.8	1868.2
72.5°	51.8	51.2	52.1	82.6	204.8	234.4	372.0	990.9	1157.0	1292.5	1389.3
75°	46.2	44.7	40.8	51.2	149.5	256.0	249.2	583.4	709.7	833.2	932.3
77.5°	41.1	38.8	36.7	39.4	74.0	241.2	223.8	334.2	398.7	490.7	567.1
80°	31.4	29.9	31.1	34.0	44.4	222.0	222.3	222.3	239.7	269.9	300.1
82.5°	20.7	18.9	21.6	28.1	33.4	167.2	229.7	196.2	193.0	191.8	193.9
85°	13.0	11.2	15.1	21.0	25.7	87.3	235.6	207.2	192.1	177.6	163.1
87.5°	4.7	5.3	7.7	12.1	16.9	37.9	206.6	182.6	172.3	154.2	137.3
90°	6.2	5.9	8.5	11.6	11.8	14.1	38.7	58.6	38.4	23.5	20.7
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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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°	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7
2.5°	406.7	408.2	408.7	408.2	408.4	410.2	409.6	410.5	410.5	411.1	411.1
5°	393.4	394.5	396.9	396.6	399.0	399.9	400.8	401.9	403.4	404.3	406.1
7.5°	377.7	380.0	382.1	383.3	384.8	387.7	388.6	391.3	393.6	396.0	397.8
10°	362.6	365.8	368.2	369.1	372.3	373.8	377.1	379.1	382.1	385.1	387.7
12.5°	349.8	352.8	354.0	356.9	359.9	362.9	364.3	368.2	371.2	375.0	378.6
15°	340.4	343.3	345.7	347.8	350.7	353.7	356.1	359.9	363.5	367.3	370.6
17.5°	334.5	336.2	339.2	341.0	344.5	348.1	350.7	355.2	359.0	362.3	366.7
20°	330.0	332.1	334.7	337.4	340.7	345.1	347.5	352.2	356.4	360.2	364.3
22.5°	327.6	329.7	332.4	335.0	338.6	342.1	346.0	350.1	354.6	358.7	362.9
25°	326.8	328.5	330.9	333.6	337.4	341.3	344.5	349.3	353.1	357.5	362.6
27.5°	327.1	328.2	330.9	333.3	337.1	340.7	343.9	348.7	353.1	357.2	362.3
30°	328.2	329.1	331.8	333.9	337.1	340.7	343.6	348.7	352.5	356.9	362.3
32.5°	332.4	333.6	334.7	336.2	339.2	341.9	345.4	349.8	353.4	357.8	362.3
35°	342.1	341.3	342.1	342.7	344.8	347.5	350.1	354.0	357.2	361.1	365.8
37.5°	357.5	355.8	356.4	356.1	356.1	357.8	360.5	363.2	365.8	369.7	374.4
40°	386.0	381.5	380.3	377.1	376.2	377.7	379.4	379.7	383.0	388.0	390.1
42.5°	422.7	416.7	417.6	412.3	410.8	409.0	411.4	409.9	412.0	415.3	419.7
45°	480.7	475.0	469.1	460.5	462.3	455.8	454.0	454.6	454.3	455.5	460.8
47.5°	549.9	542.5	538.7	535.4	529.2	525.4	520.3	512.9	514.7	517.1	521.8
50°	651.1	648.8	641.4	630.7	629.2	623.6	622.1	615.6	613.3	613.0	612.7
52.5°	786.4	771.0	768.1	758.0	750.3	745.0	743.2	734.0	724.8	730.2	729.6
55°	951.3	938.5	922.3	913.4	907.2	894.4	891.2	879.6	874.3	871.4	864.0
57.5°	1228.3	1183.6	1150.2	1133.6	1110.2	1086.5	1078.2	1054.6	1036.2	1023.2	1024.1
60°	1711.3	1631.7	1537.9	1495.9	1398.5	1384.3	1317.4	1301.1	1260.9	1234.2	1218.8
62.5°	2134.6	2113.0	2068.0	2006.7	1909.0	1796.6	1746.0	1645.3	1566.6	1532.3	1484.6
65°	2336.7	2367.2	2379.6	2368.1	2329.0	2260.4	2200.0	2101.7	1969.7	1895.1	1802.5
66°	2326.4	2371.7	2394.4	2406.3	2392.1	2351.5	2288.2	2207.4	2105.3	1991.6	1887.7
67.5°	2250.6	2294.7	2326.4	2362.5	2362.5	2349.8	2324.0	2270.1	2197.9	2098.8	2005.5
70°	1941.0	2000.8	2056.7	2067.7	2098.5	2089.0	2109.4	2075.1	2057.9	2016.5	1966.5
72.5°	1512.1	1562.2	1610.1	1658.1	1650.1	1639.7	1637.6	1644.7	1609.8	1622.2	1609.2
75°	1005.7	1091.9	1141.0	1136.3	1139.5	1142.2	1120.3	1071.4	1109.3	1061.4	1077.4
77.5°	611.2	651.1	664.5	649.7	630.4	605.6	565.6	542.2	508.8	511.4	489.2
80°	320.5	325.6	314.9	285.0	268.7	253.9	208.4	187.9	169.0	161.9	145.9
82.5°	183.8	171.7	158.6	148.6	129.3	116.3	98.6	87.3	75.2	64.5	60.7
85°	148.9	132.6	120.5	109.2	96.2	84.6	69.9	58.3	49.4	42.9	41.4
87.5°	122.8	111.6	99.2	88.5	75.8	63.9	49.4	38.5	30.5	24.6	22.8
90°	19.8	23.8	19.7	14.9	17.9	13.7	11.7	12.0	11.4	11.4	11.7
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



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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°	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7
2.5°	412.0	412.0	412.6	413.2	413.5	413.5	413.5	414.1	414.4	413.5	414.4
5°	407.0	408.4	409.6	410.5	410.8	411.7	412.6	413.2	414.1	414.1	414.7
7.5°	400.2	402.8	404.3	405.8	407.3	408.7	410.5	411.7	412.3	413.5	414.4
10°	391.6	394.8	397.8	400.2	402.2	405.2	407.6	409.3	412.0	412.3	414.4
12.5°	382.4	387.1	389.5	393.9	396.9	401.3	403.7	406.4	409.3	410.8	413.2
15°	375.9	380.0	384.5	388.6	393.4	398.7	401.6	405.2	409.3	412.6	415.5
17.5°	370.9	376.5	381.5	386.8	392.8	398.4	402.8	406.7	412.0	413.8	416.7
20°	369.4	375.6	380.6	386.2	392.5	399.9	405.2	409.3	414.7	417.6	420.3
22.5°	368.8	374.7	380.6	387.4	394.2	401.9	407.6	412.9	418.2	420.9	422.9
25°	368.2	374.4	380.9	388.6	396.0	404.0	410.5	415.5	420.6	423.2	425.0
27.5°	368.2	374.7	381.8	389.5	397.5	406.4	412.6	417.3	421.8	424.1	424.7
30°	367.9	374.7	381.5	390.1	398.7	407.9	414.7	419.1	422.9	424.4	423.8
32.5°	368.5	375.6	383.0	391.6	400.5	409.3	416.4	421.5	423.5	423.2	422.9
35°	371.4	378.0	386.5	395.1	404.3	412.6	419.4	422.9	424.7	424.1	422.7
37.5°	379.4	386.0	394.5	404.0	411.1	420.6	426.8	429.5	429.8	428.0	424.4
40°	396.0	402.5	410.2	420.6	429.2	435.7	441.6	444.6	442.8	439.5	435.7
42.5°	422.4	430.6	439.8	448.1	458.2	467.0	468.5	470.3	467.3	461.1	456.4
45°	464.7	469.7	481.6	487.8	500.8	505.2	508.5	509.4	502.9	497.8	489.5
47.5°	525.7	535.4	543.7	549.6	559.1	565.0	571.5	568.6	563.5	555.0	544.0
50°	621.5	627.8	638.4	649.1	659.1	663.3	663.3	660.3	657.1	640.5	627.2
52.5°	739.3	739.9	755.3	768.1	776.6	770.4	777.8	770.4	768.4	756.8	745.9
55°	875.8	870.2	888.8	900.1	907.8	915.2	913.7	912.8	905.1	892.1	878.8
57.5°	1005.4	1021.7	1030.6	1047.2	1051.0	1056.0	1054.0	1051.0	1046.6	1039.2	1033.3
60°	1192.5	1203.4	1211.4	1214.7	1225.6	1227.1	1234.5	1222.4	1225.3	1216.8	1198.1
62.5°	1447.0	1435.2	1441.4	1441.4	1438.1	1426.6	1432.8	1437.6	1429.6	1422.5	1419.5
65°	1732.0	1693.9	1657.2	1651.0	1634.1	1630.2	1625.5	1613.7	1608.6	1596.2	1586.1
66°	1817.3	1758.1	1723.5	1702.2	1681.7	1677.3	1670.8	1658.4	1648.3	1630.8	1614.0
67.5°	1912.9	1836.5	1784.4	1754.2	1729.1	1712.5	1699.5	1681.7	1665.8	1639.7	1612.8
70°	1906.7	1843.6	1780.9	1735.0	1697.1	1663.1	1643.0	1604.8	1572.2	1534.9	1504.1
72.5°	1602.1	1590.9	1554.5	1528.7	1482.2	1464.2	1410.9	1386.6	1341.7	1293.4	1278.6
75°	1113.8	1069.7	1051.0	1040.7	1020.2	964.0	927.3	935.3	882.6	835.5	808.6
77.5°	486.9	495.8	444.3	421.2	403.4	372.9	344.5	325.0	313.7	306.3	272.9
80°	134.7	117.5	116.0	107.7	106.0	94.4	95.9	87.6	82.0	80.8	78.1
82.5°	58.9	57.7	55.9	55.1	54.2	53.0	51.5	51.2	49.4	47.9	48.2
85°	39.1	38.8	37.9	37.0	35.5	33.4	32.0	30.8	31.1	29.6	29.3
87.5°	22.8	22.2	21.9	20.7	20.4	18.6	18.9	17.5	17.2	16.9	16.0
90°	12.3	12.4	13.0	12.5	11.2	13.6	12.5	11.7	11.8	10.8	10.6
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



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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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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	110°	86°
414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	110°	116.2
415.3	415.8	416.1	415.8	416.4	416.1	416.4	416.1	414.7	414.4	414.1	112.5°	147.0
415.8	417.0	417.3	417.6	417.0	417.6	416.4	411.7	406.4	400.5	395.7	115°	177.2
416.4	417.9	418.8	418.8	419.1	418.5	414.1	403.7	391.3	378.8	369.4	117.5°	208.2
416.1	418.2	419.1	419.4	419.4	418.2	407.6	391.0	372.0	353.1	333.9	120°	243.0
415.3	417.0	418.5	418.5	418.8	414.7	398.1	374.4	347.5	319.1	293.3	122.5°	276.2
417.0	418.8	418.8	418.8	418.5	411.4	388.0	353.7	317.6	279.1	240.9	125°	310.0
419.7	420.6	420.0	420.0	418.8	408.2	376.8	333.3	285.9	235.0	181.7	127.5°	345.4
422.1	422.7	422.4	420.9	419.4	404.6	365.2	311.7	248.0	181.7	128.7	130°	379.2
424.4	425.0	423.5	421.2	419.1	399.9	351.3	284.1	205.1	124.3	85.2	132.5°	414.2
424.7	425.3	422.7	419.4	416.4	392.8	334.5	254.8	158.1	80.5	66.6	135°	450.2
424.4	423.8	419.4	415.3	412.0	384.2	315.8	218.4	105.4	60.7	58.0	137.5°	481.2
422.4	419.7	416.1	411.4	406.7	374.7	297.2	177.9	66.6	52.7	52.7	140°	509.4
419.4	416.7	412.3	406.1	400.8	365.5	275.8	136.4	53.3	48.5	49.1	142.5°	534.4
418.2	415.3	408.7	402.2	395.4	357.2	253.4	91.8	47.9	45.9	46.2	145°	558.4
420.6	415.5	409.0	401.6	393.6	350.1	230.0	63.9	45.3	42.9	43.5	147.5°	583.4
428.6	423.8	416.1	406.7	398.1	346.0	205.1	53.0	42.6	40.5	40.5	150°	606.8
447.8	441.6	431.2	420.0	409.6	348.7	182.9	48.2	40.5	38.5	38.5	152.5°	624.0
478.9	471.5	459.4	446.6	433.0	361.7	157.8	46.5	39.1	36.1	35.5	155°	638.6
532.2	522.4	506.4	491.3	475.0	384.2	132.3	45.3	37.3	34.6	33.4	157.5°	651.0
615.9	601.4	582.5	562.6	542.8	425.3	112.2	44.1	36.1	33.4	32.3	160°	661.2
723.7	713.9	690.2	664.2	640.5	507.3	100.6	43.2	35.2	32.0	31.1	162.5°	669.2
861.0	845.0	826.4	803.0	774.9	613.6	99.4	42.9	34.3	30.8	30.2	165°	678.8
1006.0	999.8	968.1	953.6	923.1	755.0	121.1	43.5	33.7	29.9	29.0	167.5°	689.2
1171.5	1173.8	1144.2	1128.3	1103.1	934.4	192.7	45.3	33.7	29.0	28.1	170°	697.0
1387.8	1391.7	1356.8	1337.8	1316.5	1135.4	302.8	48.2	34.6	28.1	27.2	172.5°	697.0
1565.1	1544.4	1521.9	1488.8	1461.8	1247.5	291.5	53.6	35.8	27.2	26.3	175°	695.0
1583.5	1568.7	1540.3	1504.4	1471.6	1248.1	254.5	55.3	36.1	26.9	26.0	177.5°	698.8
1581.1	1554.8	1522.5	1492.3	1460.0	1216.2	196.8	57.7	37.0	26.3	25.5	180°	700.0
1471.6	1434.6	1403.2	1361.5	1327.7	1088.3	121.1	57.4	35.8	24.6	24.0		
1213.5	1194.6	1157.3	1123.8	1088.6	880.8	82.9	51.2	31.7	22.2	22.5		
784.9	763.3	725.4	706.5	686.7	563.5	64.5	41.7	26.9	19.8	20.7		
261.9	253.4	239.4	247.1	235.6	219.6	47.4	31.7	21.6	17.2	18.4		
78.4	76.7	79.3	74.6	79.0	66.9	31.1	22.2	16.6	14.8	16.3		
46.5	45.9	45.9	45.9	44.7	41.7	20.4	15.4	12.7	12.4	13.6		
28.4	27.8	28.1	27.8	28.4	25.5	13.9	10.7	9.5	9.2	11.0		
16.3	16.3	16.6	16.0	16.3	15.7	9.8	6.8	6.2	5.9	8.0		
10.8	10.8	10.0	9.7	10.0	11.1	11.7	11.1	8.8	8.5	10.7		
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		

'226831
 IST-AF-350-LED-E1-SL2-8030-ULG

REPORT NUMBER: P226831
 CATALOG NUMBER: IST-AF-350

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°	414.7	414.7
147.0	147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	2.5°	411.7	409.6
177.4	177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	5°	388.3	382.7
208.4	208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	7.5°	354.6	348.1
243.0	243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	10°	316.1	306.3
276.4	276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	12.5°	267.0	247.7
310.0	310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	15°	210.1	184.4
345.8	346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	17.5°	144.7	124.0
379.4	379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	20°	101.5	93.8
414.4	414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	22.5°	78.4	78.7
450.4	450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	25°	65.1	68.1
481.4	481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	27.5°	57.4	60.4
509.8	510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	30°	52.7	55.3
534.8	535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	32.5°	49.4	50.6
558.8	559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	35°	45.6	46.2
583.8	584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	37.5°	42.3	42.3
607.6	608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	40°	39.4	39.1
625.0	626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	42.5°	36.7	36.4
639.2	639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	45°	34.0	34.3
652.0	653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	47.5°	32.6	32.9
662.4	663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	50°	31.1	31.4
670.4	671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	52.5°	29.9	29.9
679.6	680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	55°	28.7	28.4
690.4	691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	57.5°	27.8	27.2
698.0	699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	60°	26.9	26.3
698.0	699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	62.5°	26.3	25.5
696.0	697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	65°	25.7	25.2
699.6	700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	66°	25.5	24.9
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	25.2	24.6
										70°	24.0	23.4
										72.5°	22.2	21.9
										75°	20.4	19.8
										77.5°	18.1	17.8
										80°	15.4	15.1
										82.5°	13.0	12.4
										85°	10.4	9.8
										87.5°	7.1	6.5
										90°	9.8	9.1
										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°
414.7	414.7
407.9	410.5
380.9	380.0
342.7	343.0
296.6	297.2
236.8	233.2
169.6	171.1
118.1	117.8
94.7	95.3
81.1	81.1
72.2	72.2
63.6	63.9
57.7	58.3
52.4	52.7
47.1	47.4
42.6	42.6
39.7	40.0
37.6	37.6
35.5	35.5
33.7	34.3
32.0	32.3
30.2	30.5
28.4	28.4
26.9	26.9
25.7	25.5
24.9	24.3
24.0	23.7
23.7	23.4
23.4	23.1
22.8	22.5
21.9	21.6
20.1	19.5
18.4	17.8
16.9	16.0
14.2	13.6
10.4	9.8
6.2	6.2
6.5	6.5
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



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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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