

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: P271692

Luminaire Tested: **IST-AF-350-LED-E1-SL2-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271692
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-SL2-7027-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) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3801.5 lumens
Efficiency: N/A
Efficacy: 103.3 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

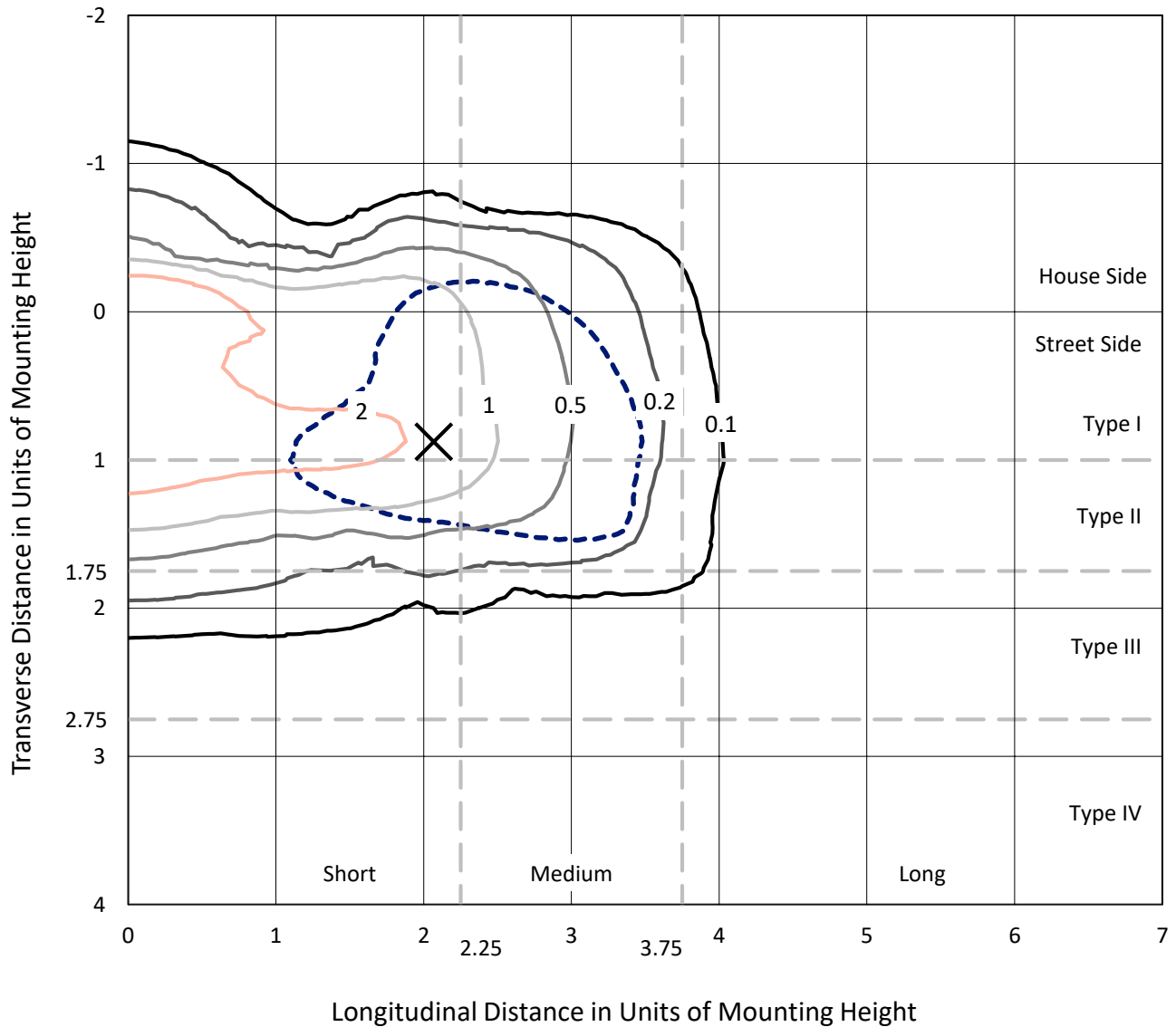


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Iso-Footcandle Lines of Horizontal Illumination

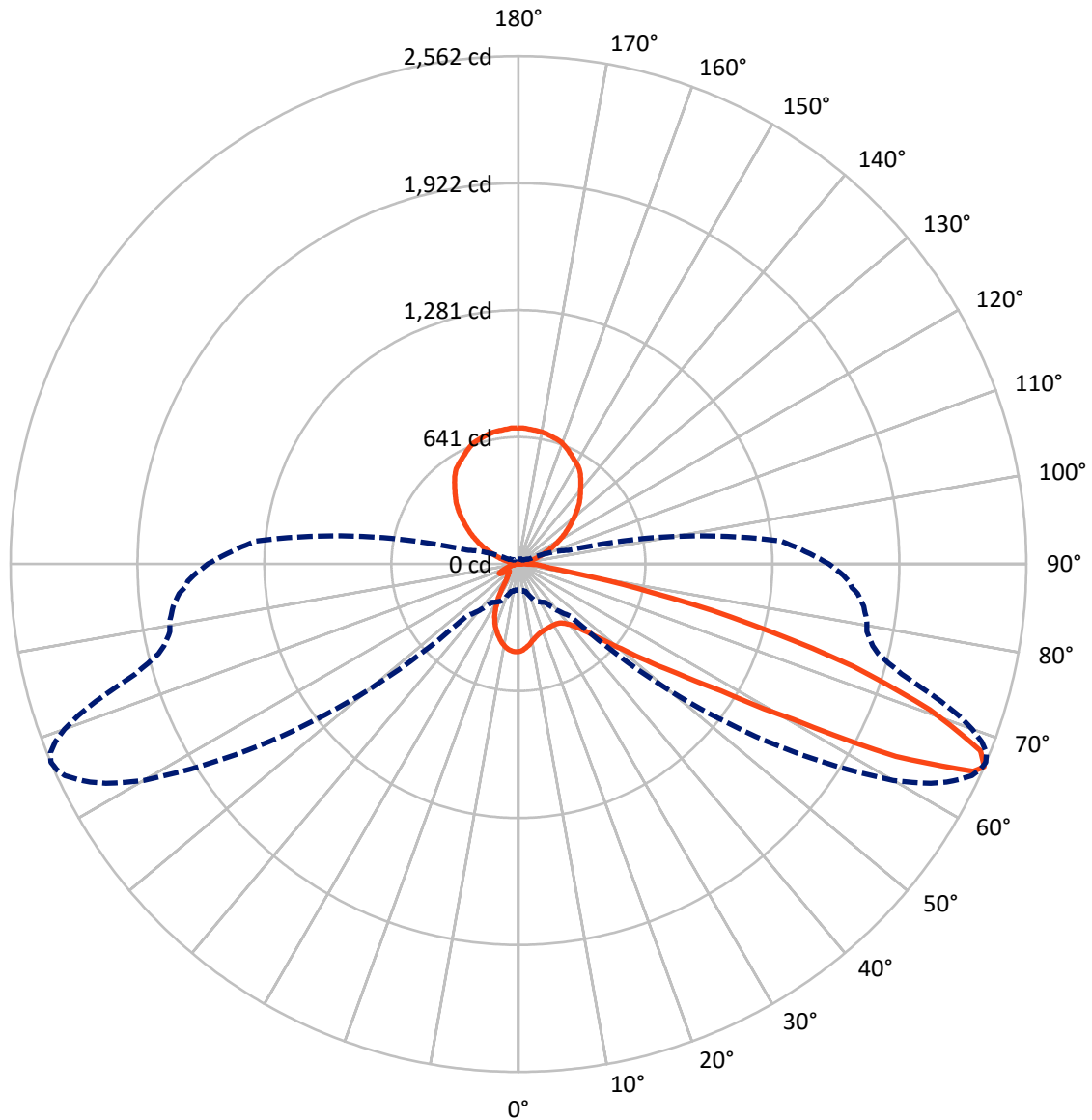
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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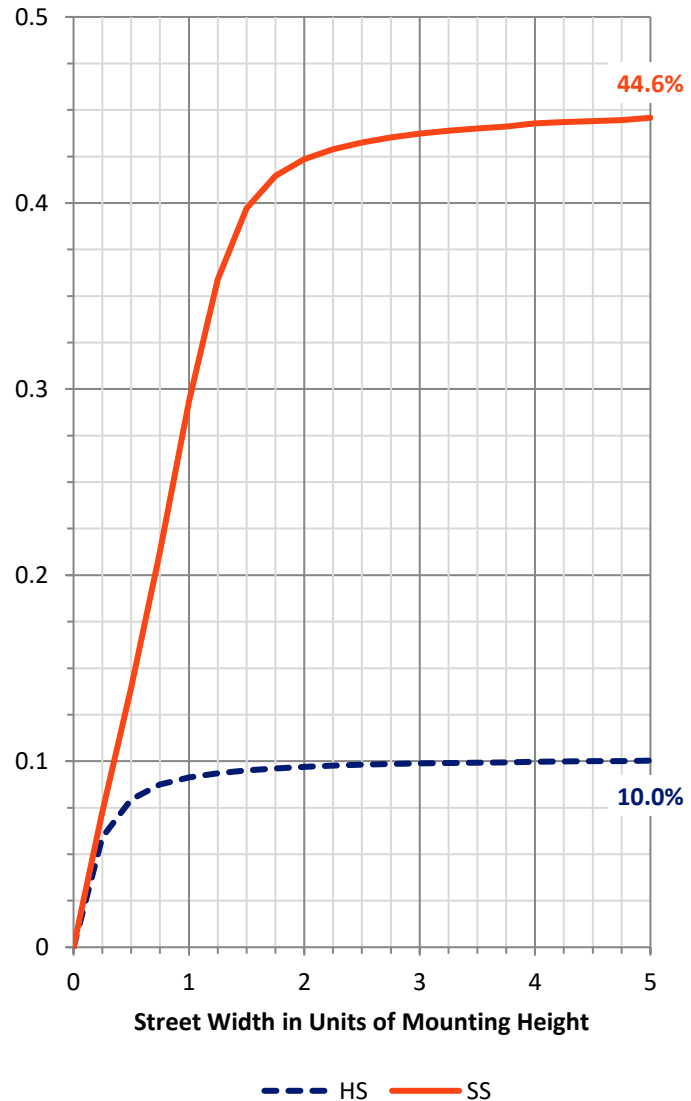
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	387.8	851.6	1239.4
	% Fixture	10.2	22.4	32.6
Street Side	Lumens	1709.9	852.1	2562.0
	% Fixture	45.0	22.4	67.4
Total	Lumens	2097.7	1703.7	3801.5
	% Fixture	55.2	44.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	1.0
10°-20°	91.1	2.4
20°-30°	125.0	3.3
30°-40°	178.5	4.7
40°-50°	289.4	7.6
50°-60°	458.6	12.1
60°-70°	581.2	15.3
70°-80°	288.9	7.6
80°-90°	46.8	1.2
90°-100°	9.8	0.3
100°-110°	56.3	1.5
110°-120°	163.0	4.3
120°-130°	268.1	7.1
130°-140°	330.6	8.7
140°-150°	338.2	8.9
150°-160°	284.9	7.5
160°-170°	187.6	4.9
170°-180°	65.0	1.7
0°-90°	2097.7	55.2
0°-180°	3801.5	100.0



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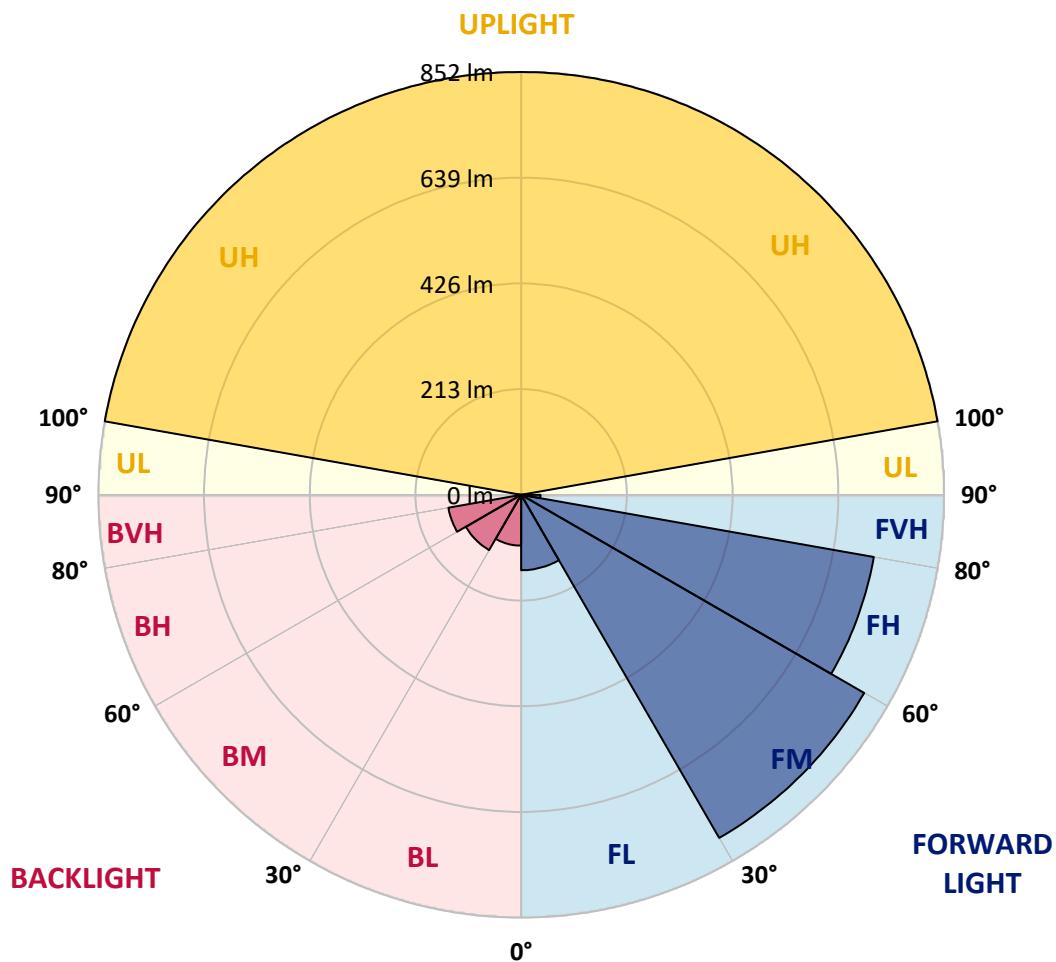
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	152.0	4.0			
FM (30°-60°)	797.9	21.0			
FH (60°-80°)	721.2	19.0			G1/1800
FVH (80°-90°)	38.9	1.0			G1/100
BL (0°-30°)	102.4	2.7	B0/110		
BM (30°-60°)	128.7	3.4	B0/220		
BH (60°-80°)	148.8	3.9	B1/500		G1/500
BVH (80°-90°)	7.9	0.2			G0/10
UL (90°-100°)	9.8	0.3		U1/10	
UH (100°-180°)	851.6	22.4		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°	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4
2.5°	410.3	411.2	416.6	419.5	423.6	424.8	429.5	431.5	433.1	432.6	432.6
5°	373.4	376.3	378.7	384.5	390.4	397.7	406.8	413.8	415.1	416.6	417.5
7.5°	345.4	347.3	351.7	355.8	363.4	373.4	386.3	395.2	397.1	397.7	399.8
10°	325.5	326.8	330.6	336.0	344.8	354.5	368.0	377.2	380.1	381.3	383.1
12.5°	310.1	312.0	315.5	321.1	330.6	340.6	354.8	363.9	365.9	367.5	370.3
15°	300.3	301.7	304.7	311.0	319.5	329.6	343.5	354.5	355.8	357.3	360.0
17.5°	298.5	299.3	301.2	306.1	312.6	322.4	336.5	345.7	347.9	350.1	352.7
20°	306.1	306.6	307.2	307.8	311.6	318.0	331.8	341.5	343.5	345.4	348.5
22.5°	322.4	323.3	321.8	319.5	316.7	318.0	329.6	339.6	341.0	342.8	345.4
25°	350.8	349.8	345.1	341.5	331.6	323.3	330.3	338.8	340.4	342.3	345.1
27.5°	384.1	382.9	380.1	370.6	353.9	337.2	334.0	340.4	341.3	342.8	345.4
30°	420.0	420.4	417.8	407.5	386.0	358.0	342.5	344.1	344.8	345.9	347.6
32.5°	452.6	457.2	457.0	456.2	425.8	386.0	359.0	352.7	351.7	352.7	353.2
35°	490.0	490.9	499.7	504.2	479.3	427.1	382.9	369.0	365.3	365.5	364.9
37.5°	530.4	531.7	546.8	554.3	535.1	473.7	414.7	393.3	389.9	386.3	383.8
40°	589.0	594.0	602.0	610.4	601.0	536.4	456.6	427.6	418.8	418.3	413.1
42.5°	676.5	675.0	671.2	678.2	666.8	606.6	507.4	476.1	469.5	460.7	453.7
45°	762.6	766.1	749.6	752.8	753.5	687.9	580.8	537.0	533.5	523.2	515.5
47.5°	820.6	816.8	794.8	810.8	850.2	782.9	665.8	619.9	612.6	607.3	602.5
50°	823.7	820.6	806.4	834.7	919.0	951.3	784.4	730.8	720.4	710.9	708.1
52.5°	746.9	742.4	747.2	804.8	943.8	1092.6	951.7	868.5	859.9	852.1	841.2
55°	609.8	614.8	637.2	720.1	905.7	1192.8	1281.1	1081.2	1044.7	1044.3	1017.2
57.5°	455.4	450.3	467.0	544.8	809.2	1228.4	1583.5	1534.0	1452.4	1397.2	1330.7
60°	307.2	308.5	324.0	363.9	563.1	1189.6	1786.2	1958.6	1929.9	1918.2	1900.3
62.5°	213.0	215.0	229.1	266.5	329.3	957.1	1845.4	2196.4	2247.8	2290.4	2280.0
65°	149.1	149.4	163.5	221.5	246.8	491.6	1714.7	2228.0	2304.5	2377.6	2443.2
66°	131.4	131.7	143.4	206.1	236.6	370.9	1601.2	2184.2	2271.5	2356.5	2424.3
67.5°	112.5	114.4	123.6	175.2	226.9	286.1	1322.7	2053.3	2144.7	2238.4	2327.9
70°	77.3	77.8	86.1	142.1	212.4	251.2	753.8	1603.0	1729.5	1894.0	1989.0
72.5°	55.2	54.4	55.4	87.9	218.1	249.5	396.2	1055.1	1231.8	1376.1	1479.1
75°	49.1	47.6	43.5	54.4	159.1	272.5	265.3	621.1	755.7	887.1	992.6
77.5°	43.7	41.3	39.1	42.0	78.8	256.8	238.2	355.8	424.4	522.5	603.8
80°	33.3	31.8	33.1	36.2	47.3	236.3	236.6	236.6	255.3	287.4	319.5
82.5°	22.1	20.1	23.0	29.9	35.7	178.0	244.6	208.9	205.4	204.3	206.4
85°	13.8	11.9	16.1	22.4	27.4	93.0	250.9	220.6	204.5	189.0	173.6
87.5°	5.0	5.7	8.2	12.9	18.0	40.3	219.9	194.4	183.4	164.2	146.2
90°	6.2	5.9	8.4	11.7	11.9	14.5	40.6	61.7	40.2	24.3	21.4
92.5°	4.0	4.0	4.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8
95°	4.9	4.9	5.9	6.8	6.8	6.8	6.8	7.4	7.5	7.5	7.6
97.5°	6.8	6.8	7.8	7.8	8.8	8.8	11.8	10.8	10.6	10.4	10.2
100°	7.8	7.8	8.8	9.8	11.8	20.6	28.5	26.9	26.7	26.4	26.1
102.5°	10.8	10.8	12.8	17.7	26.5	39.3	49.0	47.6	47.3	47.0	46.7
105°	20.6	21.6	26.5	35.3	47.1	61.8	70.7	69.7	69.5	69.3	69.1
107.5°	40.2	41.2	48.1	57.0	71.7	86.3	93.2	92.7	92.6	92.5	92.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
110°	64.8	66.7	72.7	85.4	100.1	111.9	117.8	118.3	118.4	118.5	118.6
112.5°	97.2	97.2	104.0	118.8	131.5	140.3	145.3	146.2	146.4	146.6	146.9
115°	137.4	136.5	144.3	156.0	164.9	170.8	175.7	177.1	177.4	177.8	178.0
117.5°	180.6	180.6	185.5	193.3	198.3	201.2	207.1	209.0	209.5	209.8	210.2
120°	220.8	218.8	221.8	228.7	232.6	238.5	241.5	243.4	243.8	244.2	244.6
122.5°	258.2	255.2	256.2	262.0	266.0	271.8	273.8	275.8	276.2	276.6	276.9
125°	292.5	288.5	290.5	293.5	299.3	304.3	307.2	308.2	308.4	308.6	308.7
127.5°	323.9	322.9	322.9	326.8	332.7	333.7	338.6	339.1	339.2	339.3	339.4
130°	356.3	354.3	355.3	359.2	363.2	365.1	370.0	372.0	372.3	372.8	373.2
132.5°	388.7	386.7	385.7	393.5	396.5	397.5	403.4	405.9	406.3	406.8	407.3
135°	421.0	418.1	418.1	424.0	427.0	428.9	434.8	437.3	437.7	438.2	438.7
137.5°	451.5	448.5	450.5	451.5	455.4	459.3	464.2	465.2	465.4	465.6	465.8
140°	479.0	476.0	478.0	480.0	481.9	487.8	490.7	491.7	491.9	492.1	492.3
142.5°	508.4	505.5	507.5	508.4	511.3	515.3	517.2	520.2	520.7	521.4	521.9
145°	539.8	535.9	534.0	536.8	539.8	540.8	545.7	548.7	549.2	549.9	550.4
147.5°	564.3	561.4	560.5	563.3	563.3	564.3	569.3	571.7	572.2	572.7	573.2
150°	584.0	581.0	582.0	582.0	582.0	582.0	586.0	587.4	587.7	588.0	588.3
152.5°	599.7	596.7	596.7	597.7	598.7	598.7	599.7	601.1	601.4	601.8	602.0
155°	617.3	613.5	613.5	615.4	618.3	616.3	614.4	616.9	617.3	617.9	618.3
157.5°	634.0	631.1	631.1	632.0	634.0	633.0	632.0	634.0	634.5	634.8	635.2
160°	650.7	647.8	646.8	643.8	642.8	642.8	645.8	648.8	649.4	649.9	650.6
162.5°	660.5	656.6	656.6	652.7	648.8	650.7	654.7	656.6	657.0	657.4	657.8
165°	668.4	665.5	663.5	663.5	660.5	660.5	659.5	662.1	662.5	662.9	663.5
167.5°	677.2	674.3	671.3	673.3	675.3	672.3	665.5	668.4	669.0	669.6	670.1
170°	685.0	682.2	679.2	679.2	680.2	678.2	673.3	674.8	675.1	675.3	675.6
172.5°	686.0	684.1	682.2	680.2	677.2	677.2	676.2	677.7	678.0	678.3	678.6
175°	687.0	685.0	684.1	682.2	678.2	677.2	677.2	679.7	680.2	680.6	681.2
177.5°	693.9	692.0	687.0	686.0	684.1	682.2	681.2	683.6	684.1	684.6	685.0
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4
2.5°	433.1	434.6	435.2	434.6	434.9	436.8	436.1	437.0	437.0	437.7	437.7
5°	418.8	420.0	422.7	422.2	424.8	425.8	426.7	428.0	429.5	430.5	432.4
7.5°	402.1	404.7	406.8	408.1	409.6	412.8	413.8	416.6	419.1	421.7	423.6
10°	386.0	389.4	392.0	393.0	396.4	397.9	401.5	403.7	406.8	410.0	412.8
12.5°	372.4	375.6	376.9	380.1	383.1	386.3	387.9	392.0	395.2	399.3	403.1
15°	362.4	365.5	368.0	370.3	373.4	376.6	379.2	383.1	387.0	391.1	394.5
17.5°	356.1	358.0	361.2	363.1	366.8	370.6	373.4	378.2	382.3	385.7	390.4
20°	351.3	353.6	356.4	359.2	362.7	367.5	369.9	375.0	379.4	383.5	387.9
22.5°	348.8	351.1	353.9	356.8	360.5	364.4	368.3	372.8	377.5	381.9	386.3
25°	347.9	349.8	352.3	355.2	359.2	363.4	366.8	371.9	375.9	380.7	386.0
27.5°	348.3	349.5	352.3	354.8	359.0	362.7	366.1	371.2	375.9	380.3	385.7
30°	349.5	350.4	353.2	355.5	359.0	362.7	365.9	371.2	375.3	380.1	385.7
32.5°	353.9	355.2	356.4	358.0	361.2	363.9	367.8	372.4	376.3	381.0	385.7
35°	364.4	363.4	364.4	364.9	367.1	369.9	372.8	376.9	380.3	384.5	389.4
37.5°	380.7	378.7	379.4	379.2	379.2	381.0	383.8	386.7	389.4	393.5	398.7
40°	411.0	406.2	405.0	401.5	400.6	402.1	404.0	404.2	407.8	413.1	415.4
42.5°	450.1	443.8	444.6	439.0	437.5	435.5	438.0	436.5	438.6	442.1	446.9
45°	511.8	505.7	499.5	490.4	492.2	485.4	483.4	484.1	483.7	484.9	490.7
47.5°	585.5	577.6	573.6	570.1	563.5	559.4	554.1	546.1	548.1	550.5	555.6
50°	693.3	690.8	682.9	671.6	670.0	663.9	662.4	655.4	653.0	652.6	652.3
52.5°	837.3	820.9	817.7	807.0	798.9	793.1	791.2	781.5	771.7	777.4	776.9
55°	1012.7	999.3	981.9	972.4	965.9	952.3	948.9	936.6	930.9	927.7	919.9
57.5°	1307.8	1260.2	1224.6	1207.0	1182.1	1156.8	1148.0	1122.8	1103.3	1089.5	1090.4
60°	1822.1	1737.3	1637.4	1592.7	1489.0	1473.8	1402.6	1385.3	1342.4	1314.1	1297.7
62.5°	2272.7	2249.7	2201.8	2136.6	2032.5	1912.9	1859.0	1751.9	1668.1	1631.4	1580.7
65°	2487.9	2520.5	2533.6	2521.4	2479.7	2406.6	2342.4	2237.8	2097.3	2017.8	1919.2
66°	2477.0	2525.1	2549.4	2562.0	2546.9	2503.7	2436.2	2350.2	2241.5	2120.4	2009.9
67.5°	2396.3	2443.2	2477.0	2515.3	2515.3	2501.8	2474.4	2417.1	2340.2	2234.5	2135.3
70°	2066.6	2130.3	2189.9	2201.5	2234.3	2224.2	2245.9	2209.4	2191.1	2146.9	2093.7
72.5°	1610.0	1663.2	1714.3	1765.3	1756.8	1745.9	1743.6	1751.2	1714.0	1727.2	1713.3
75°	1070.8	1162.5	1214.8	1209.7	1213.3	1216.0	1192.8	1140.8	1181.1	1130.1	1147.0
77.5°	650.7	693.3	707.4	691.8	671.2	644.7	602.2	577.3	541.7	544.6	520.8
80°	341.3	346.7	335.2	303.4	286.1	270.4	221.8	200.1	179.9	172.4	155.4
82.5°	195.7	182.7	168.9	158.2	137.7	123.9	104.9	93.0	80.1	68.7	64.6
85°	158.6	141.1	128.3	116.3	102.4	90.1	74.4	62.2	52.6	45.7	44.2
87.5°	130.7	118.8	105.6	94.2	80.7	68.1	52.6	41.0	32.5	26.1	24.3
90°	20.3	24.6	20.2	15.1	18.2	13.8	11.7	11.9	11.4	11.4	11.7
92.5°	6.8	6.8	6.7	6.6	6.6	6.5	6.4	6.3	6.2	6.1	6.0
95°	7.7	7.8	7.7	7.6	7.5	7.5	7.4	7.3	7.2	7.1	7.0
97.5°	10.0	9.8	9.7	9.6	9.5	9.4	9.3	9.3	9.2	9.1	8.9
100°	25.8	25.5	25.2	25.0	24.6	24.3	24.1	23.7	23.4	23.2	22.9
102.5°	46.4	46.2	45.6	45.2	44.6	44.2	43.7	43.2	42.7	42.2	41.7
105°	68.9	68.7	68.2	67.7	67.2	66.7	66.3	65.8	65.3	64.8	64.3
107.5°	92.3	92.3	91.9	91.4	91.1	90.7	90.3	89.9	89.5	89.1	88.8



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CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
110°	118.7	118.8	118.6	118.4	118.1	117.9	117.8	117.6	117.4	117.2	117.0
112.5°	147.1	147.2	147.1	147.1	147.0	146.9	146.7	146.6	146.5	146.4	146.3
115°	178.3	178.7	178.3	178.0	177.8	177.4	177.1	176.9	176.6	176.2	176.0
117.5°	210.7	211.0	210.6	210.0	209.6	209.0	208.6	208.0	207.6	207.1	206.6
120°	245.0	245.3	244.9	244.4	243.9	243.4	242.9	242.5	241.9	241.5	240.9
122.5°	277.4	277.8	277.3	276.8	276.3	275.8	275.3	274.8	274.3	273.8	273.4
125°	308.9	309.2	308.7	308.2	307.7	307.2	306.7	306.2	305.7	305.2	304.7
127.5°	339.5	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6
130°	373.5	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
132.5°	407.8	408.3	408.1	407.9	407.7	407.5	407.3	407.1	406.9	406.8	406.6
135°	439.2	439.7	439.6	439.5	439.5	439.3	439.2	439.1	439.0	438.9	438.8
137.5°	466.0	466.2	466.3	466.4	466.5	466.6	466.7	466.8	466.8	467.0	467.1
140°	492.5	492.7	492.9	493.1	493.3	493.5	493.7	493.9	494.1	494.2	494.4
142.5°	522.5	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2
145°	551.0	551.6	551.5	551.4	551.3	551.2	551.1	551.0	550.9	550.8	550.8
147.5°	573.7	574.2	574.3	574.4	574.5	574.6	574.6	574.7	574.8	574.9	575.1
150°	588.6	588.9	589.2	589.5	589.7	590.1	590.4	590.6	590.9	591.3	591.5
152.5°	602.3	602.7	603.0	603.4	603.8	604.2	604.6	605.0	605.4	605.7	606.2
155°	618.8	619.3	619.8	620.3	620.8	621.3	621.8	622.3	622.7	623.2	623.7
157.5°	635.6	636.0	636.2	636.4	636.6	636.8	637.0	637.2	637.3	637.5	637.8
160°	651.1	651.7	651.5	651.1	650.8	650.6	650.2	649.9	649.7	649.4	649.0
162.5°	658.2	658.5	658.5	658.4	658.3	658.2	658.1	658.0	657.9	657.8	657.6
165°	663.9	664.5	664.7	665.0	665.4	665.6	665.9	666.3	666.5	666.8	667.1
167.5°	670.8	671.3	671.8	672.1	672.5	672.9	673.3	673.7	674.1	674.4	674.9
170°	676.0	676.2	676.7	677.2	677.7	678.2	678.7	679.2	679.7	680.2	680.6
172.5°	678.8	679.2	679.4	679.6	679.7	679.9	680.2	680.4	680.6	680.7	680.9
175°	681.6	682.2	682.3	682.4	682.4	682.5	682.6	682.7	682.8	682.9	683.0
177.5°	685.6	686.0	686.2	686.5	686.7	686.8	687.0	687.2	687.5	687.7	687.8
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4
2.5°	438.6	438.6	439.3	439.9	440.2	440.2	440.2	440.9	441.2	440.2	441.2
5°	433.3	434.9	436.1	437.0	437.5	438.4	439.3	439.9	440.9	440.9	441.4
7.5°	426.1	428.9	430.5	432.1	433.6	435.2	437.0	438.4	439.0	440.2	441.2
10°	416.9	420.4	423.6	426.1	428.2	431.5	433.9	435.8	438.6	439.0	441.2
12.5°	407.1	412.2	414.7	419.5	422.7	427.3	429.7	432.6	435.8	437.5	439.9
15°	400.3	404.7	409.4	413.8	418.8	424.4	427.6	431.5	435.8	439.3	442.4
17.5°	394.9	400.8	406.2	411.9	418.3	424.2	428.9	433.1	438.6	440.6	443.8
20°	393.3	399.8	405.2	411.2	417.8	425.8	431.5	435.8	441.4	444.6	447.4
22.5°	392.6	398.9	405.2	412.5	419.8	428.0	433.9	439.6	445.3	448.2	450.3
25°	392.0	398.7	405.6	413.8	421.7	430.2	437.0	442.4	447.7	450.6	452.6
27.5°	392.0	398.9	406.6	414.7	423.2	432.6	439.3	444.3	449.1	451.6	452.2
30°	391.8	398.9	406.2	415.4	424.4	434.2	441.4	446.2	450.3	451.8	451.3
32.5°	392.3	399.8	407.8	416.9	426.3	435.8	443.4	448.7	450.9	450.6	450.3
35°	395.4	402.4	411.5	420.7	430.5	439.3	446.5	450.3	452.2	451.6	450.1
37.5°	404.0	411.0	420.0	430.2	437.7	447.7	454.5	457.2	457.6	455.7	451.8
40°	421.7	428.6	436.8	447.7	457.0	463.9	470.2	473.4	471.4	467.9	463.9
42.5°	449.7	458.6	468.3	477.1	487.8	497.3	498.9	500.7	497.6	490.9	485.9
45°	494.8	500.1	512.8	519.3	533.2	537.9	541.4	542.4	535.4	530.0	521.3
47.5°	559.6	570.1	578.9	585.2	595.3	601.5	608.5	605.4	600.0	590.8	579.1
50°	661.8	668.4	679.7	691.1	701.8	706.2	706.2	703.0	699.6	681.9	667.8
52.5°	787.2	787.8	804.3	817.7	826.9	820.3	828.1	820.3	818.1	805.8	794.1
55°	932.5	926.5	946.4	958.3	966.5	974.4	972.9	971.9	963.6	949.8	935.7
57.5°	1070.5	1087.8	1097.3	1115.0	1119.0	1124.4	1122.3	1119.0	1114.3	1106.4	1100.2
60°	1269.7	1281.3	1289.9	1293.3	1305.0	1306.6	1314.4	1301.5	1304.7	1295.4	1275.6
62.5°	1540.6	1528.1	1534.7	1534.7	1531.3	1518.9	1525.5	1530.6	1522.1	1514.5	1511.4
65°	1844.1	1803.4	1764.5	1757.8	1739.8	1735.7	1730.7	1718.1	1712.7	1699.5	1688.7
66°	1934.9	1871.9	1835.0	1812.3	1790.6	1785.8	1778.9	1765.7	1755.0	1736.3	1718.4
67.5°	2036.6	1955.4	1899.9	1867.8	1841.0	1823.3	1809.5	1790.6	1773.5	1745.9	1717.1
70°	2030.1	1963.0	1896.1	1847.3	1806.9	1770.6	1749.3	1708.7	1674.0	1634.3	1601.5
72.5°	1705.8	1693.8	1655.0	1627.7	1578.1	1559.0	1502.2	1476.4	1428.5	1377.1	1361.3
75°	1185.9	1138.9	1119.0	1108.0	1086.2	1026.3	987.2	995.8	939.6	889.6	860.9
77.5°	518.4	527.8	473.0	448.4	429.5	397.1	366.8	345.9	334.0	326.2	290.5
80°	143.4	125.1	123.6	114.7	112.7	100.5	102.0	93.2	87.2	86.1	83.3
82.5°	62.7	61.4	59.6	58.6	57.7	56.4	54.9	54.4	52.6	51.0	51.3
85°	41.6	41.3	40.3	39.3	37.8	35.7	34.0	32.8	33.1	31.5	31.2
87.5°	24.3	23.6	23.4	22.1	21.8	19.9	20.1	18.5	18.2	18.0	17.0
90°	12.3	12.5	13.1	12.7	11.2	13.8	12.7	11.9	11.9	10.9	10.7
92.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
95°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	8.8	8.7	8.6	8.5	8.4	8.4	8.3	8.2	8.1	7.9	7.8
100°	22.5	22.2	21.8	21.4	21.0	20.6	20.2	19.9	19.4	19.0	18.7
102.5°	41.2	41.0	40.6	40.3	40.1	39.7	39.4	39.2	38.9	38.5	38.3
105°	63.8	63.4	63.0	62.6	62.3	61.8	61.4	61.1	60.6	60.3	59.8
107.5°	88.3	88.0	87.8	87.5	87.1	86.9	86.6	86.2	86.0	85.7	85.4



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
110°	116.8	116.5	116.2	115.9	115.6	115.3	115.1	114.7	114.4	114.2	113.8	0°
112.5°	146.2	146.1	145.9	145.6	145.4	145.3	145.1	144.9	144.6	144.4	144.3	2.5°
115°	175.7	175.5	175.3	175.1	174.9	174.7	174.5	174.3	174.1	173.9	173.7	5°
117.5°	206.1	205.9	205.7	205.5	205.4	205.2	204.9	204.7	204.5	204.4	204.2	7.5°
120°	240.5	240.3	240.0	239.8	239.7	239.5	239.3	239.1	238.9	238.7	238.5	10°
122.5°	272.8	272.6	272.5	272.3	272.1	271.8	271.6	271.5	271.3	271.1	270.9	12.5°
125°	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°
127.5°	339.6	339.5	339.4	339.3	339.2	339.1	339.0	338.9	338.8	338.8	338.6	17.5°
130°	374.0	373.8	373.5	373.3	373.2	373.0	372.8	372.5	372.3	372.2	372.0	20°
132.5°	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	22.5°
135°	438.7	439.0	439.3	439.6	439.9	440.2	440.5	440.8	441.1	441.3	441.7	25°
137.5°	467.2	467.7	468.2	468.6	469.2	469.6	470.2	470.6	471.1	471.6	472.1	27.5°
140°	494.7	495.1	495.7	496.1	496.7	497.1	497.6	498.1	498.6	499.1	499.5	30°
142.5°	523.2	523.3	523.4	523.4	523.5	523.6	523.7	523.8	523.9	524.0	524.1	32.5°
145°	550.6	550.3	550.0	549.8	549.4	549.1	548.9	548.5	548.2	548.0	547.7	35°
147.5°	575.2	574.8	574.6	574.3	573.9	573.7	573.4	573.1	572.8	572.5	572.2	37.5°
150°	591.8	592.2	592.4	592.7	593.0	593.3	593.6	593.9	594.2	594.5	594.8	40°
152.5°	606.5	607.1	607.5	608.1	608.5	609.1	609.5	609.9	610.5	610.9	611.5	42.5°
155°	624.2	624.4	624.6	624.8	625.0	625.2	625.4	625.6	625.8	626.0	626.2	45°
157.5°	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	47.5°
160°	648.8	648.7	648.6	648.5	648.4	648.3	648.1	648.0	647.9	647.9	647.8	50°
162.5°	657.6	657.4	657.2	657.0	656.8	656.6	656.4	656.2	656.0	655.9	655.7	52.5°
165°	667.4	667.2	667.0	666.8	666.6	666.5	666.3	666.0	665.8	665.6	665.5	55°
167.5°	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	57.5°
170°	681.2	681.4	681.5	681.7	681.9	682.2	682.4	682.5	682.7	682.9	683.1	60°
172.5°	681.2	681.4	681.5	681.7	681.9	682.2	682.4	682.5	682.7	682.9	683.1	62.5°
175°	683.1	682.9	682.7	682.5	682.4	682.2	681.9	681.7	681.5	681.4	681.2	65°
177.5°	688.0	687.7	687.5	687.1	686.8	686.6	686.2	685.9	685.7	685.4	685.0	66°
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	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°	86°	
441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	110°	114.1
442.1	442.8	443.0	442.8	443.4	443.0	443.4	443.0	441.4	441.2	440.9	112.5°	144.3
442.8	444.0	444.3	444.6	444.0	444.6	443.4	438.4	432.6	426.3	421.3	115°	173.9
443.4	445.0	445.9	445.9	446.2	445.6	440.9	429.7	416.6	403.4	393.3	117.5°	204.4
443.0	445.3	446.2	446.5	446.5	445.3	433.9	416.3	396.2	375.9	355.5	120°	238.5
442.1	444.0	445.6	445.6	445.9	441.4	423.8	398.7	369.9	339.6	312.3	122.5°	271.1
444.0	445.9	445.9	445.9	445.6	438.0	413.1	376.6	338.1	297.2	256.6	125°	304.3
446.9	447.7	447.2	447.2	445.9	434.6	401.1	354.8	304.4	250.2	193.5	127.5°	339.0
449.4	450.1	449.7	448.2	446.5	430.7	388.9	331.8	264.1	193.5	137.1	130°	372.2
451.8	452.6	450.9	448.4	446.2	425.8	374.1	302.5	218.4	132.4	90.8	132.5°	406.6
452.2	452.8	450.1	446.5	443.4	418.3	356.1	271.3	168.3	85.7	70.9	135°	441.9
451.8	451.3	446.5	442.1	438.6	409.1	336.2	232.6	112.2	64.6	61.7	137.5°	472.3
449.7	446.9	443.0	438.0	433.1	398.9	316.5	189.5	70.9	56.1	56.1	140°	500.0
446.5	443.8	439.0	432.4	426.7	389.1	293.7	145.3	56.8	51.7	52.3	142.5°	524.5
445.3	442.1	435.2	428.2	421.0	380.3	269.7	97.6	51.0	48.9	49.1	145°	548.1
447.7	442.4	435.5	427.6	419.1	372.8	244.9	68.1	48.1	45.7	46.4	147.5°	572.6
456.2	451.3	443.0	433.1	423.8	368.3	218.4	56.4	45.4	43.2	43.2	150°	595.6
476.8	470.2	459.1	447.2	436.1	371.2	194.8	51.3	43.2	41.0	41.0	152.5°	612.5
509.9	502.1	489.0	475.6	461.0	385.1	167.9	49.5	41.6	38.4	37.8	155°	626.7
566.7	556.2	539.3	523.2	505.7	409.1	140.9	48.1	39.7	36.9	35.7	157.5°	639.0
655.9	640.3	620.2	599.1	578.0	452.8	119.5	46.9	38.4	35.7	34.3	160°	648.9
770.5	760.1	734.8	707.1	681.9	540.2	107.2	46.0	37.5	34.0	33.1	162.5°	656.8
916.7	899.7	879.8	855.0	825.0	653.2	105.9	45.7	36.5	32.8	32.1	165°	666.3
1071.0	1064.5	1030.7	1015.4	982.8	803.9	128.9	46.4	35.9	31.8	30.9	167.5°	676.4
1247.3	1249.8	1218.3	1201.2	1174.4	994.9	205.2	48.1	35.9	30.9	29.9	170°	684.1
1477.6	1481.8	1444.6	1424.4	1401.6	1208.8	322.4	51.3	36.9	29.9	28.9	172.5°	684.1
1666.4	1644.3	1620.5	1585.1	1556.4	1328.2	310.5	57.0	38.2	28.9	28.0	175°	682.2
1686.0	1670.2	1639.9	1601.8	1566.8	1329.0	271.0	58.9	38.4	28.7	27.8	177.5°	685.9
1683.4	1655.4	1621.0	1588.9	1554.6	1294.9	209.6	61.4	39.3	28.0	27.1	180°	687.0
1566.8	1527.5	1494.0	1449.5	1413.7	1158.7	128.9	61.2	38.2	26.1	25.5		
1292.0	1271.9	1232.1	1196.5	1159.0	937.8	88.2	54.4	33.8	23.6	24.0		
835.7	812.8	772.5	752.2	731.1	600.0	68.7	44.5	28.7	21.1	22.1		
278.9	269.7	255.0	263.1	250.9	233.8	50.5	33.8	23.0	18.2	19.5		
83.5	81.7	84.4	79.4	84.1	71.2	33.1	23.6	17.7	15.8	17.3		
49.5	48.9	48.9	48.9	47.6	44.5	21.8	16.3	13.6	13.3	14.6		
30.3	29.6	29.9	29.6	30.3	27.1	14.8	11.4	10.2	9.8	11.7		
17.3	17.3	17.7	17.0	17.3	16.7	10.4	7.3	6.6	6.3	8.5		
11.0	11.0	10.0	9.7	10.0	11.3	11.7	11.0	8.7	8.4	10.7		
5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.8	6.8	5.9	5.9		
6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.8	6.8	6.8	6.8		
7.8	7.8	7.8	7.8	7.8	7.8	8.8	9.8	11.8	8.8	8.8		
18.7	18.7	18.7	18.7	18.7	18.7	22.5	25.5	28.5	20.6	11.8		
38.1	37.9	37.7	37.5	37.3	38.3	41.2	46.2	49.0	39.3	26.5		
59.8	59.8	59.8	59.8	59.8	59.8	63.8	68.7	70.7	61.8	47.1		
85.2	85.0	84.8	84.6	84.4	85.4	88.3	92.3	93.2	86.3	71.7		

'271692
 IST-AF-350-LED-E1-SL2-7027-ULG

REPORT NUMBER: P271692
 CATALOG NUMBER: IST-AF-350

TION (continued):

CANDELA DISTRIBUTION (con

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
114.3	114.4	114.6	114.8	113.8	116.8	118.8	117.8	111.9	100.1	0°	441.4	441.4
144.3	144.3	144.3	144.3	144.3	146.2	147.2	145.3	140.3	131.5	2.5°	438.4	436.1
174.1	174.3	174.5	174.7	173.7	175.7	178.7	175.7	170.8	164.9	5°	413.5	407.5
204.5	204.7	204.9	205.2	204.2	206.1	211.0	207.1	201.2	198.3	7.5°	377.5	370.6
238.5	238.5	238.5	238.5	238.5	240.5	245.3	241.5	238.5	232.6	10°	336.5	326.2
271.3	271.5	271.6	271.8	270.9	272.8	277.8	273.8	271.8	266.0	12.5°	284.2	263.7
304.3	304.3	304.3	304.3	304.3	304.3	309.2	307.2	304.3	299.3	15°	223.8	196.3
339.4	339.8	340.2	340.5	338.6	339.6	339.6	338.6	333.7	332.7	17.5°	154.1	132.1
372.3	372.5	372.8	373.0	372.0	374.0	374.0	370.0	365.1	363.2	20°	108.1	99.9
406.8	406.9	407.1	407.3	406.3	406.3	408.3	403.4	397.5	396.5	22.5°	83.5	83.8
442.1	442.2	442.4	442.7	441.7	438.7	439.7	434.8	428.9	427.0	25°	69.3	72.4
472.5	472.7	472.9	473.0	472.1	467.2	466.2	464.2	459.3	455.4	27.5°	61.2	64.3
500.4	500.7	501.2	501.5	499.5	494.7	492.7	490.7	487.8	481.9	30°	56.1	58.9
524.9	525.3	525.7	526.0	524.1	523.2	523.2	517.2	515.3	511.3	32.5°	52.6	53.9
548.4	548.9	549.2	549.7	547.7	550.6	551.6	545.7	540.8	539.8	35°	48.5	49.1
573.0	573.4	573.7	574.2	572.2	575.2	574.2	569.3	564.3	563.3	37.5°	45.1	45.1
596.4	597.1	597.9	598.7	594.8	591.8	588.9	586.0	582.0	582.0	40°	42.0	41.6
613.5	614.4	615.4	616.3	611.5	606.5	602.7	599.7	598.7	598.7	42.5°	39.1	38.8
627.4	627.9	628.5	629.2	626.2	624.2	619.3	614.4	616.3	618.3	45°	36.2	36.5
640.0	640.9	641.9	642.8	638.0	638.0	636.0	632.0	633.0	634.0	47.5°	34.7	34.9
650.1	651.3	652.5	653.7	647.8	648.8	651.7	645.8	642.8	642.8	50°	33.1	33.3
658.0	659.2	660.3	661.5	655.7	657.6	658.5	654.7	650.7	648.8	52.5°	31.8	31.8
667.0	667.8	668.6	669.3	665.5	667.4	664.5	659.5	660.5	660.5	55°	30.5	30.3
677.6	678.8	679.9	681.2	675.3	675.3	671.3	665.5	672.3	675.3	57.5°	29.6	28.9
685.0	686.0	687.0	688.0	683.1	681.2	676.2	673.3	678.2	680.2	60°	28.7	28.0
685.0	686.0	687.0	688.0	683.1	681.2	679.2	676.2	677.2	677.2	62.5°	28.0	27.1
683.1	684.1	685.0	686.0	681.2	683.1	682.2	677.2	677.2	678.2	65°	27.4	26.8
686.7	687.5	688.2	689.0	685.0	688.0	686.0	681.2	682.2	684.1	66°	27.1	26.5
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	26.8	26.1
										70°	25.5	25.0
										72.5°	23.6	23.4
										75°	21.8	21.1
										77.5°	19.2	19.0
										80°	16.3	16.1
										82.5°	13.8	13.3
										85°	11.0	10.4
										87.5°	7.5	7.0
										90°	9.7	9.1
										92.5°	5.9	4.9
										95°	6.8	5.9
										97.5°	7.8	7.8
										100°	9.8	8.8
										102.5°	17.7	12.8
										105°	35.3	26.5
										107.5°	57.0	48.1



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tinued):

175°	180°
441.4	441.4
434.2	437.0
405.6	404.7
364.9	365.3
315.8	316.5
252.2	248.3
180.6	182.2
125.8	125.4
100.8	101.5
86.3	86.3
76.9	76.9
67.7	68.1
61.4	62.2
55.8	56.1
50.1	50.5
45.4	45.4
42.2	42.5
40.1	40.1
37.8	37.8
35.9	36.5
34.0	34.3
32.1	32.5
30.3	30.3
28.7	28.7
27.4	27.1
26.5	25.8
25.5	25.2
25.2	25.0
25.0	24.5
24.3	24.0
23.4	23.0
21.4	20.8
19.5	19.0
18.0	17.0
15.1	14.6
11.0	10.4
6.6	6.6
6.5	6.5
4.0	4.0
4.9	4.9
6.8	6.8
7.8	7.8
10.8	10.8
21.6	20.6
41.2	40.2

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	85.4	72.7	66.7
112.5°	118.8	104.0	97.2
115°	156.0	144.3	136.5
117.5°	193.3	185.5	180.6
120°	228.7	221.8	218.8
122.5°	262.0	256.2	255.2
125°	293.5	290.5	288.5
127.5°	326.8	322.9	322.9
130°	359.2	355.3	354.3
132.5°	393.5	385.7	386.7
135°	424.0	418.1	418.1
137.5°	451.5	450.5	448.5
140°	480.0	478.0	476.0
142.5°	508.4	507.5	505.5
145°	536.8	534.0	535.9
147.5°	563.3	560.5	561.4
150°	582.0	582.0	581.0
152.5°	597.7	596.7	596.7
155°	615.4	613.5	613.5
157.5°	632.0	631.1	631.1
160°	643.8	646.8	647.8
162.5°	652.7	656.6	656.6
165°	663.5	663.5	665.5
167.5°	673.3	671.3	674.3
170°	679.2	679.2	682.2
172.5°	680.2	682.2	684.1
175°	682.2	684.1	685.0
177.5°	686.0	687.0	692.0
180°	687.0	687.0	687.0



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180°
64.8
97.2
137.4
180.6
220.8
258.2
292.5
323.9
356.3
388.7
421.0
451.5
479.0
508.4
539.8
564.3
584.0
599.7
617.3
634.0
650.7
660.5
668.4
677.2
685.0
686.0
687.0
693.9
687.0

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