

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: P271713

Luminaire Tested: **IST-AF-600-LED-E1-SL3-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)-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-600-LED-E1-SL3-7027-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III 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: 5071.2 lumens
Efficiency: N/A
Efficacy: 100.6 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): 50.4
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

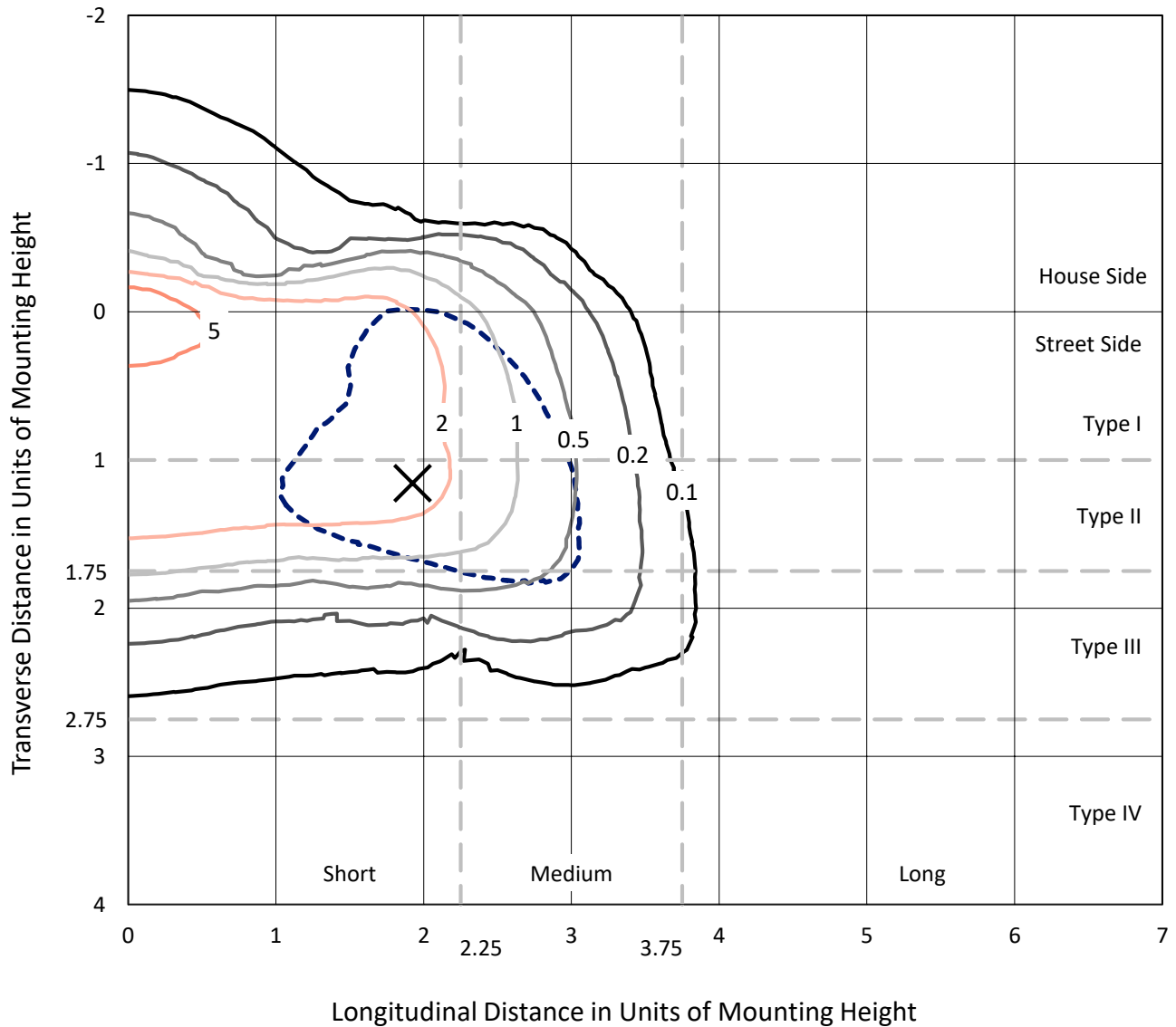


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

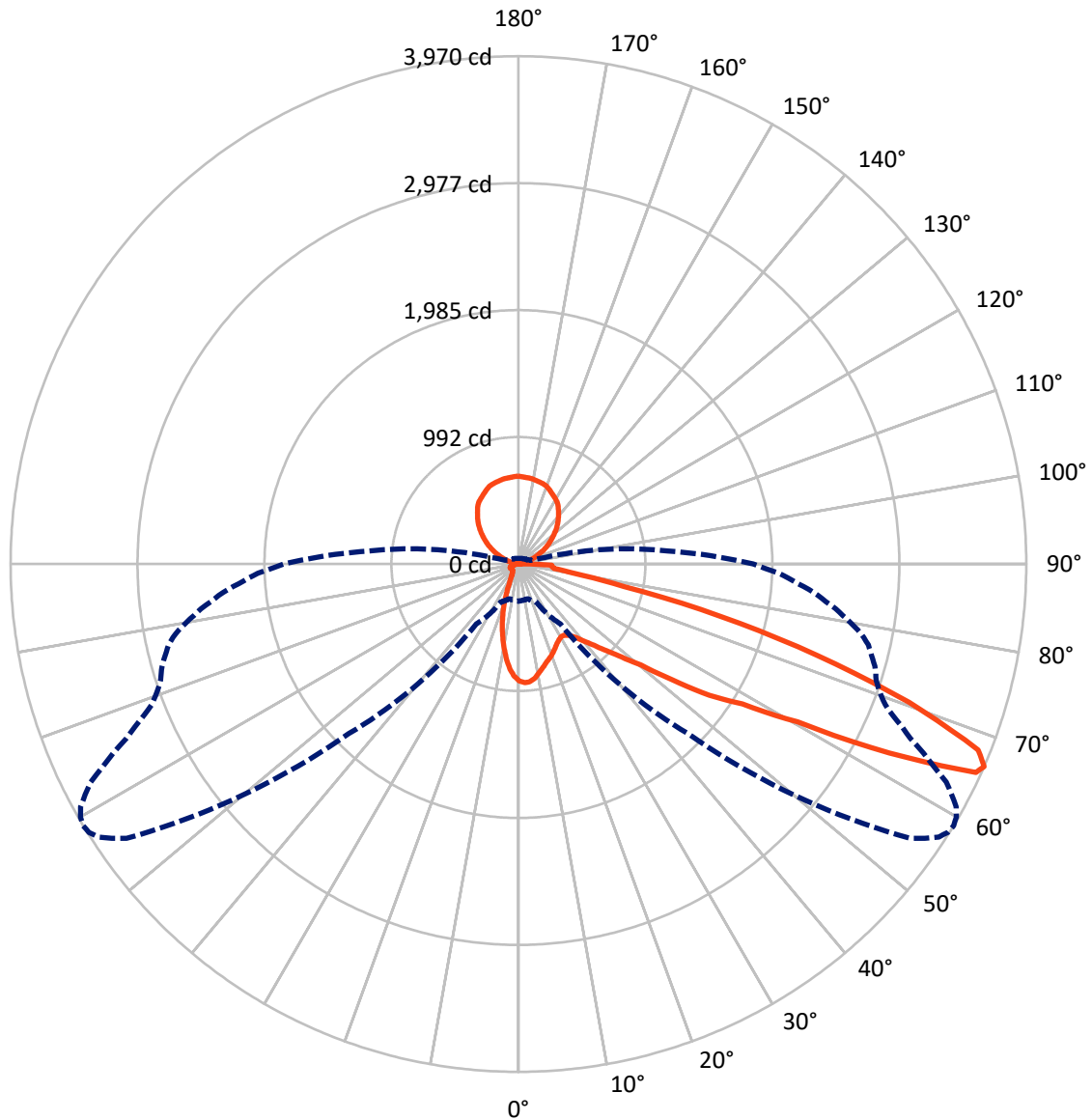


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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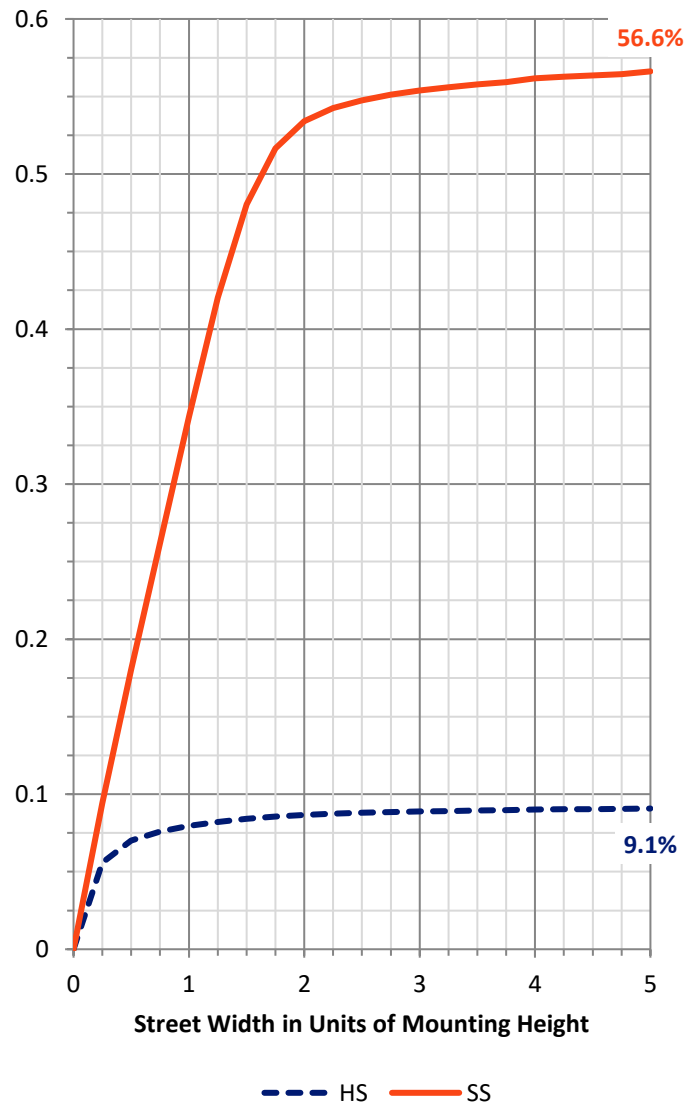
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	467.7	851.7	1319.4
	% Fixture	9.2	16.8	26.0
Street Side	Lumens	2899.1	852.7	3751.9
	% Fixture	57.2	16.8	74.0
Total	Lumens	3366.8	1704.4	5071.2
	% Fixture	66.4	33.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	1.5
10°-20°	164.7	3.2
20°-30°	206.6	4.1
30°-40°	282.7	5.6
40°-50°	454.8	9.0
50°-60°	790.2	15.6
60°-70°	960.1	18.9
70°-80°	358.2	7.1
80°-90°	71.4	1.4
90°-100°	10.5	0.2
100°-110°	56.3	1.1
110°-120°	163.0	3.2
120°-130°	268.1	5.3
130°-140°	330.6	6.5
140°-150°	338.2	6.7
150°-160°	284.9	5.6
160°-170°	187.6	3.7
170°-180°	65.0	1.3
0°-90°	3366.8	66.4
0°-180°	5071.2	100.0



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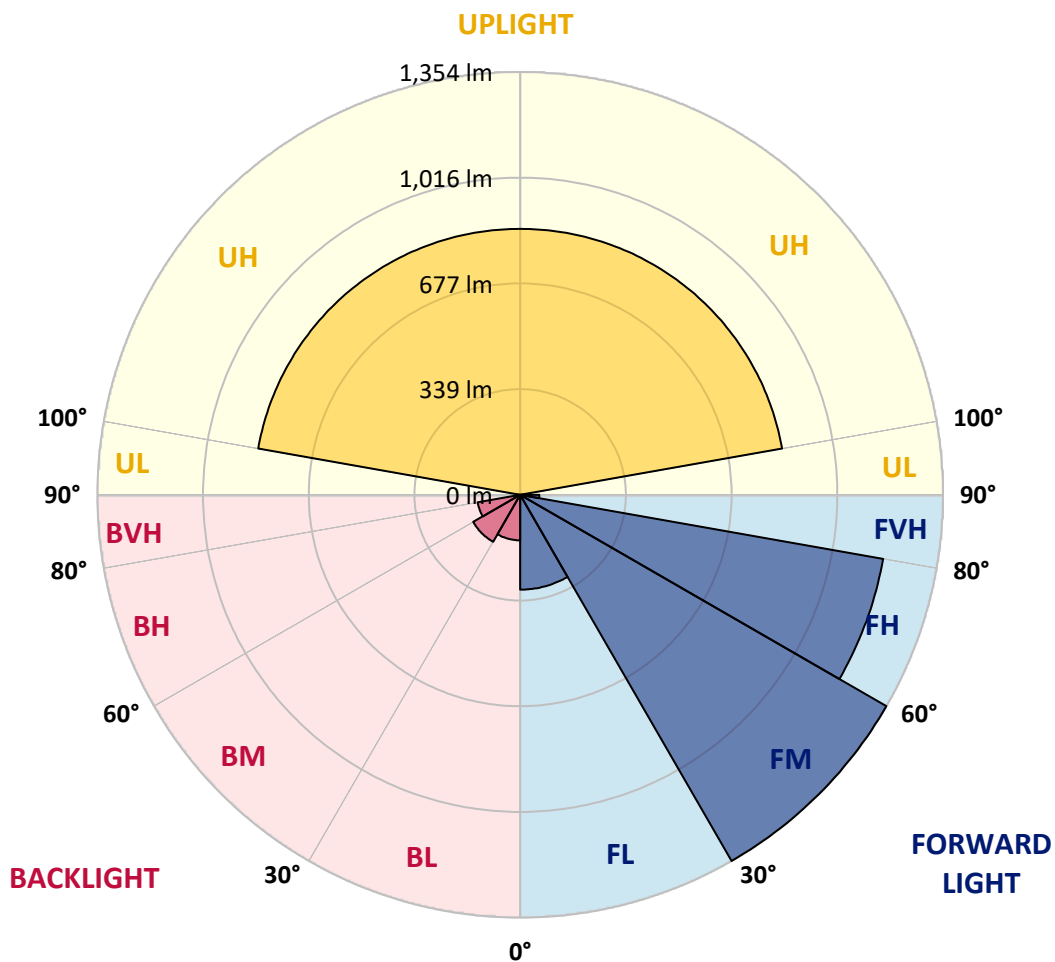
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.7	6.0			
FM (30°-60°)	1354.0	26.7			
FH (60°-80°)	1180.2	23.3			G1/1800
FVH (80°-90°)	61.3	1.2			G1/100
BL (0°-30°)	145.7	2.9	B1/500		
BM (30°-60°)	173.7	3.4	B0/220		
BH (60°-80°)	138.1	2.7	B1/500		G1/500
BVH (80°-90°)	10.2	0.2			G1/100
UL (90°-100°)	10.5	0.2		U2/50	
UH (100°-180°)	851.7	16.8		U4/1000	

BUG Rating: B1-U5-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7
2.5°	938.5	935.5	941.2	939.1	940.5	932.9	931.4	929.7	930.8	929.3	929.3
5°	916.3	914.7	921.5	925.2	928.2	927.2	926.6	926.6	927.2	923.5	924.1
7.5°	851.2	850.2	859.6	866.2	881.2	890.0	901.4	901.9	902.9	901.4	904.4
10°	782.2	785.2	793.5	804.3	826.5	839.9	861.7	865.8	867.3	867.9	868.3
12.5°	715.9	713.0	723.2	743.9	773.9	795.4	822.8	824.9	827.6	831.1	834.7
15°	657.2	660.8	669.1	690.8	722.2	752.7	788.4	790.4	795.4	798.6	803.8
17.5°	617.0	617.0	626.2	646.3	675.7	714.5	759.3	763.0	767.2	771.3	776.9
20°	596.7	596.7	600.3	612.3	638.1	675.3	729.4	733.6	740.8	745.4	753.2
22.5°	595.3	594.7	594.2	596.7	612.3	641.2	697.4	703.1	709.3	716.6	723.2
25°	611.7	613.4	607.2	603.0	604.5	617.9	667.0	670.0	681.9	686.7	694.9
27.5°	635.6	638.1	632.9	626.7	617.5	608.6	641.2	646.3	654.1	661.8	672.1
30°	669.6	669.1	668.6	664.4	646.3	619.0	633.5	637.1	643.7	649.9	658.7
32.5°	706.2	710.4	713.4	711.4	692.9	646.3	644.3	647.4	653.6	657.2	662.9
35°	753.7	755.7	767.6	767.6	749.1	695.4	674.8	677.3	680.4	681.9	686.0
37.5°	805.9	813.1	830.7	840.9	812.1	756.4	722.8	722.8	724.3	725.3	727.9
40°	866.2	876.6	900.8	920.4	901.9	832.2	785.7	790.4	788.8	786.7	792.5
42.5°	936.4	947.8	977.3	995.8	985.0	923.5	870.4	867.3	872.0	865.8	867.9
45°	1018.0	1026.9	1056.8	1076.3	1085.2	1035.6	981.4	975.2	975.2	961.7	967.5
47.5°	1091.4	1094.0	1122.8	1157.5	1185.9	1186.8	1110.5	1106.4	1096.5	1087.7	1085.6
50°	1159.5	1167.3	1185.9	1223.5	1282.9	1334.5	1288.0	1275.1	1264.3	1231.8	1241.5
52.5°	1277.7	1292.8	1304.6	1327.2	1397.4	1502.2	1559.5	1539.4	1536.9	1507.4	1500.7
55°	1299.8	1301.5	1340.7	1471.9	1637.0	1712.3	1822.3	1821.9	1830.0	1820.8	1812.0
57.5°	1195.6	1183.2	1248.8	1421.7	1753.7	2140.9	2107.3	2110.9	2100.1	2071.7	2062.9
60°	931.4	941.6	1012.4	1232.8	1669.5	2417.6	2639.0	2573.5	2620.4	2546.7	2506.9
62.5°	524.0	512.1	560.1	791.9	1369.6	2432.0	3363.3	3370.6	3393.3	3351.9	3254.9
65°	338.1	333.0	328.3	400.6	820.8	2127.5	3764.0	3852.7	3905.9	3927.6	3929.2
66°	290.6	286.5	280.8	327.8	572.0	1874.5	3738.2	3833.1	3917.8	3958.0	3969.9
67.5°	247.2	241.0	240.0	271.6	397.9	1454.3	3491.9	3641.1	3715.9	3820.2	3876.9
70°	188.9	185.9	195.1	234.4	305.6	684.6	2782.6	2977.3	3106.2	3187.8	3240.5
72.5°	158.6	157.5	170.4	214.2	289.6	388.2	1947.7	2156.9	2291.6	2369.5	2441.9
75°	123.9	125.0	141.9	204.5	288.1	338.1	1131.7	1330.9	1409.4	1532.1	1626.2
77.5°	93.0	91.9	105.3	165.2	280.8	342.8	588.0	670.7	756.8	819.3	842.0
80°	65.0	66.0	75.4	113.5	218.8	352.6	366.5	385.6	403.7	423.8	428.0
82.5°	43.4	43.8	55.8	78.0	151.7	336.5	342.3	333.5	319.5	302.0	282.9
85°	26.3	27.4	39.7	52.7	117.7	304.5	354.1	330.9	309.7	286.5	263.3
87.5°	13.5	15.0	23.7	31.0	69.7	150.3	368.7	351.6	322.6	287.0	261.1
90°	8.5	8.5	12.0	15.6	21.8	37.3	99.8	90.7	49.0	87.0	46.9
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	7.0	7.1	7.2	7.3
97.5°	6.8	6.8	7.8	7.8	8.8	8.8	11.8	11.6	11.4	11.2	11.0
100°	7.8	7.8	8.8	9.8	11.8	20.6	28.5	28.2	27.8	27.6	27.3
102.5°	10.8	10.8	12.8	17.7	26.5	39.3	49.0	48.8	48.5	48.1	47.9
105°	20.6	21.6	26.5	35.3	47.1	61.8	70.7	70.4	70.2	70.1	69.9
107.5°	40.2	41.2	48.1	57.0	71.7	86.3	93.2	93.2	93.1	93.0	92.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	64.8	66.7	72.7	85.4	100.1	111.9	117.8	117.9	117.9	118.0	118.1
112.5°	97.2	97.2	104.0	118.8	131.5	140.3	145.3	145.4	145.6	145.9	146.1
115°	137.4	136.5	144.3	156.0	164.9	170.8	175.7	176.0	176.2	176.6	176.9
117.5°	180.6	180.6	185.5	193.3	198.3	201.2	207.1	207.5	207.9	208.2	208.7
120°	220.8	218.8	221.8	228.7	232.6	238.5	241.5	241.8	242.3	242.6	243.0
122.5°	258.2	255.2	256.2	262.0	266.0	271.8	273.8	274.3	274.6	275.0	275.4
125°	292.5	288.5	290.5	293.5	299.3	304.3	307.2	307.4	307.6	307.8	308.0
127.5°	323.9	322.9	322.9	326.8	332.7	333.7	338.6	338.8	338.8	338.9	339.0
130°	356.3	354.3	355.3	359.2	363.2	365.1	370.0	370.4	370.8	371.2	371.6
132.5°	388.7	386.7	385.7	393.5	396.5	397.5	403.4	403.9	404.3	404.9	405.3
135°	421.0	418.1	418.1	424.0	427.0	428.9	434.8	435.3	435.8	436.3	436.8
137.5°	451.5	448.5	450.5	451.5	455.4	459.3	464.2	464.4	464.6	464.9	465.1
140°	479.0	476.0	478.0	480.0	481.9	487.8	490.7	490.9	491.1	491.4	491.6
142.5°	508.4	505.5	507.5	508.4	511.3	515.3	517.2	517.9	518.4	519.0	519.6
145°	539.8	535.9	534.0	536.8	539.8	540.8	545.7	546.3	546.9	547.4	548.1
147.5°	564.3	561.4	560.5	563.3	563.3	564.3	569.3	569.7	570.2	570.7	571.2
150°	584.0	581.0	582.0	582.0	582.0	582.0	586.0	586.2	586.5	586.9	587.1
152.5°	599.7	596.7	596.7	597.7	598.7	598.7	599.7	600.0	600.2	600.6	600.9
155°	617.3	613.5	613.5	615.4	618.3	616.3	614.4	614.9	615.4	615.9	616.3
157.5°	634.0	631.1	631.1	632.0	634.0	633.0	632.0	632.5	632.9	633.2	633.7
160°	650.7	647.8	646.8	643.8	642.8	642.8	645.8	646.4	647.0	647.6	648.1
162.5°	660.5	656.6	656.6	652.7	648.8	650.7	654.7	655.0	655.4	655.9	656.2
165°	668.4	665.5	663.5	663.5	660.5	660.5	659.5	660.1	660.5	661.1	661.5
167.5°	677.2	674.3	671.3	673.3	675.3	672.3	665.5	666.0	666.6	667.2	667.8
170°	685.0	682.2	679.2	679.2	680.2	678.2	673.3	673.5	673.9	674.2	674.4
172.5°	686.0	684.1	682.2	680.2	677.2	677.2	676.2	676.5	676.9	677.1	677.4
175°	687.0	685.0	684.1	682.2	678.2	677.2	677.2	677.7	678.2	678.7	679.2
177.5°	693.9	692.0	687.0	686.0	684.1	682.2	681.2	681.6	682.2	682.6	683.1
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7
2.5°	928.7	929.7	928.7	927.2	928.7	927.2	926.6	926.2	926.6	925.6	925.2
5°	924.1	925.2	925.2	922.0	921.5	923.5	920.4	921.5	920.4	919.4	917.3
7.5°	901.9	902.3	902.9	900.8	902.3	902.3	901.4	901.4	900.3	900.8	898.8
10°	870.9	873.0	874.9	874.1	873.5	878.1	876.0	877.6	877.6	876.0	876.6
12.5°	837.3	840.9	843.6	843.6	845.7	850.8	850.2	851.2	855.5	855.5	853.9
15°	806.4	810.0	814.1	817.2	821.3	824.9	827.6	831.7	833.8	833.8	836.3
17.5°	782.2	787.3	791.9	793.5	799.1	805.3	806.9	812.1	815.1	816.6	819.8
20°	758.3	764.1	769.7	774.9	780.1	787.3	790.9	794.0	799.1	802.3	806.9
22.5°	730.5	739.2	746.5	752.7	761.4	767.6	774.9	780.1	786.3	790.9	794.6
25°	704.1	715.9	725.8	732.0	743.9	752.7	761.4	769.2	776.9	783.6	788.8
27.5°	679.8	693.3	705.2	715.1	727.9	741.8	750.6	763.5	773.9	783.1	789.3
30°	668.0	679.4	691.8	703.1	715.9	733.6	748.1	764.5	777.4	789.3	798.6
32.5°	670.7	680.9	691.8	701.6	715.1	734.6	749.5	768.7	787.8	803.3	815.1
35°	691.2	700.6	707.8	716.6	728.4	743.3	759.3	779.5	803.3	823.9	839.5
37.5°	734.6	737.1	744.4	751.2	757.3	771.3	786.3	803.3	830.7	852.3	874.1
40°	788.4	795.0	801.7	804.8	812.1	820.8	827.6	845.7	869.9	898.2	922.0
42.5°	868.3	870.9	872.0	873.0	875.6	881.8	891.6	908.1	931.8	957.1	983.5
45°	958.1	961.3	964.3	965.9	962.3	965.9	976.2	983.9	1007.2	1031.0	1064.5
47.5°	1082.5	1073.3	1068.6	1074.8	1071.7	1079.4	1084.2	1088.7	1116.6	1145.0	1173.5
50°	1242.1	1236.3	1229.2	1229.7	1235.3	1230.2	1233.4	1250.4	1259.6	1283.4	1321.0
52.5°	1497.1	1479.6	1452.2	1440.3	1447.0	1442.9	1444.5	1448.1	1441.9	1464.1	1496.0
55°	1812.0	1789.3	1771.3	1760.9	1722.7	1719.6	1694.3	1685.0	1664.9	1686.1	1678.8
57.5°	2036.5	2022.2	2012.8	1981.9	1964.3	1929.2	1918.9	1906.6	1878.6	1892.5	1904.9
60°	2470.2	2418.6	2401.1	2346.8	2328.8	2295.2	2252.4	2231.2	2216.7	2230.2	2221.9
62.5°	3194.0	3122.3	3108.3	2979.8	2948.2	2870.8	2790.2	2779.4	2734.0	2705.7	2698.9
65°	3900.7	3798.0	3721.0	3580.6	3485.6	3375.2	3252.3	3162.6	3070.0	3023.7	2962.3
66°	3953.4	3912.6	3835.1	3753.1	3614.7	3494.0	3354.5	3257.5	3153.7	3072.1	3019.6
67.5°	3863.6	3841.9	3814.6	3758.8	3672.0	3559.5	3427.3	3303.4	3178.6	3082.5	2998.4
70°	3265.8	3289.5	3320.5	3306.0	3256.4	3212.6	3095.9	3026.7	2932.8	2806.8	2755.2
72.5°	2465.1	2528.5	2506.9	2425.3	2387.2	2356.6	2314.3	2268.0	2133.1	2117.7	2056.7
75°	1585.9	1564.8	1578.7	1479.6	1412.0	1384.1	1283.4	1242.1	1140.8	1075.3	1025.2
77.5°	835.9	794.6	762.5	675.3	612.7	576.2	527.0	469.3	380.5	375.3	294.3
80°	387.7	356.2	327.3	296.8	266.3	226.1	196.2	160.1	141.4	121.3	113.1
82.5°	263.3	243.1	225.7	205.4	182.3	154.4	133.2	113.1	96.6	86.8	79.1
85°	238.5	216.9	197.2	171.9	147.6	124.4	101.7	84.1	68.7	59.8	54.8
87.5°	231.9	204.9	184.3	156.9	133.2	109.4	87.8	68.1	53.2	43.4	37.2
90°	37.3	39.5	30.9	30.1	18.0	20.8	17.6	14.0	14.6	12.9	13.5
92.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.6	6.6	6.5	6.4
95°	7.4	7.5	7.5	7.6	7.7	7.8	7.7	7.6	7.5	7.5	7.4
97.5°	10.8	10.6	10.4	10.2	10.0	9.8	9.7	9.6	9.5	9.4	9.3
100°	26.9	26.7	26.4	26.1	25.8	25.5	25.2	25.0	24.6	24.3	24.1
102.5°	47.6	47.3	47.0	46.7	46.4	46.2	45.6	45.2	44.6	44.2	43.7
105°	69.7	69.5	69.3	69.1	68.9	68.7	68.2	67.7	67.2	66.7	66.3
107.5°	92.7	92.6	92.5	92.4	92.3	92.3	91.9	91.4	91.1	90.7	90.3



REPORT NUMBER: P271713

CATALOG NUMBER: IST-AF-600-LED-E1-SL3-7027-ULG

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	118.3	118.4	118.5	118.6	118.7	118.8	118.6	118.4	118.1	117.9	117.8
112.5°	146.2	146.4	146.6	146.9	147.1	147.2	147.1	147.1	147.0	146.9	146.7
115°	177.1	177.4	177.8	178.0	178.3	178.7	178.3	178.0	177.8	177.4	177.1
117.5°	209.0	209.5	209.8	210.2	210.7	211.0	210.6	210.0	209.6	209.0	208.6
120°	243.4	243.8	244.2	244.6	245.0	245.3	244.9	244.4	243.9	243.4	242.9
122.5°	275.8	276.2	276.6	276.9	277.4	277.8	277.3	276.8	276.3	275.8	275.3
125°	308.2	308.4	308.6	308.7	308.9	309.2	308.7	308.2	307.7	307.2	306.7
127.5°	339.1	339.2	339.3	339.4	339.5	339.6	339.6	339.6	339.6	339.6	339.6
130°	372.0	372.3	372.8	373.2	373.5	374.0	374.0	374.0	374.0	374.0	374.0
132.5°	405.9	406.3	406.8	407.3	407.8	408.3	408.1	407.9	407.7	407.5	407.3
135°	437.3	437.7	438.2	438.7	439.2	439.7	439.6	439.5	439.5	439.3	439.2
137.5°	465.2	465.4	465.6	465.8	466.0	466.2	466.3	466.4	466.5	466.6	466.7
140°	491.7	491.9	492.1	492.3	492.5	492.7	492.9	493.1	493.3	493.5	493.7
142.5°	520.2	520.7	521.4	521.9	522.5	523.2	523.2	523.2	523.2	523.2	523.2
145°	548.7	549.2	549.9	550.4	551.0	551.6	551.5	551.4	551.3	551.2	551.1
147.5°	571.7	572.2	572.7	573.2	573.7	574.2	574.3	574.4	574.5	574.6	574.6
150°	587.4	587.7	588.0	588.3	588.6	588.9	589.2	589.5	589.7	590.1	590.4
152.5°	601.1	601.4	601.8	602.0	602.3	602.7	603.0	603.4	603.8	604.2	604.6
155°	616.9	617.3	617.9	618.3	618.8	619.3	619.8	620.3	620.8	621.3	621.8
157.5°	634.0	634.5	634.8	635.2	635.6	636.0	636.2	636.4	636.6	636.8	637.0
160°	648.8	649.4	649.9	650.6	651.1	651.7	651.5	651.1	650.8	650.6	650.2
162.5°	656.6	657.0	657.4	657.8	658.2	658.5	658.5	658.4	658.3	658.2	658.1
165°	662.1	662.5	662.9	663.5	663.9	664.5	664.7	665.0	665.4	665.6	665.9
167.5°	668.4	669.0	669.6	670.1	670.8	671.3	671.8	672.1	672.5	672.9	673.3
170°	674.8	675.1	675.3	675.6	676.0	676.2	676.7	677.2	677.7	678.2	678.7
172.5°	677.7	678.0	678.3	678.6	678.8	679.2	679.4	679.6	679.7	679.9	680.2
175°	679.7	680.2	680.6	681.2	681.6	682.2	682.3	682.4	682.4	682.5	682.6
177.5°	683.6	684.1	684.6	685.0	685.6	686.0	686.2	686.5	686.7	686.8	687.0
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



REPORT NUMBER: P271713

CATALOG NUMBER: IST-AF-600-LED-E1-SL3-7027-ULG

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7
2.5°	924.1	922.5	924.1	923.5	921.5	922.0	922.5	920.4	919.4	919.4	919.0
5°	915.8	914.7	915.8	915.4	912.2	911.7	911.7	910.2	908.1	906.5	905.5
7.5°	896.1	897.2	896.7	895.3	893.6	893.6	892.1	888.4	886.4	884.3	882.2
10°	874.1	874.1	874.5	874.1	871.4	870.4	868.3	866.2	866.8	861.7	857.5
12.5°	854.4	854.4	853.9	852.9	851.2	850.8	850.8	844.6	843.0	841.5	836.8
15°	835.9	836.8	836.8	836.8	834.3	834.3	831.7	827.6	827.6	822.8	818.3
17.5°	821.3	822.8	822.4	822.8	823.4	820.3	815.8	813.1	810.0	807.4	801.2
20°	808.9	810.0	810.5	810.5	808.9	806.9	802.7	798.6	796.5	791.4	783.6
22.5°	797.5	799.7	800.2	800.2	798.1	796.5	792.5	786.3	782.2	776.0	768.7
25°	792.9	795.4	794.0	795.0	792.9	789.3	783.6	778.5	772.4	764.5	756.8
27.5°	794.6	798.1	797.1	796.5	794.0	791.4	784.2	778.0	770.7	761.4	751.6
30°	803.8	810.0	807.4	805.3	804.8	798.6	791.9	783.1	774.9	764.1	752.7
32.5°	821.3	824.5	824.9	823.4	820.8	815.8	806.4	795.0	785.7	772.8	759.3
35°	850.2	853.4	852.3	852.3	849.8	841.5	830.1	818.7	805.9	791.4	777.4
37.5°	890.5	896.1	895.3	893.2	890.0	880.2	871.4	857.5	843.0	823.9	807.9
40°	941.2	949.9	957.6	956.1	948.9	940.1	931.8	915.8	901.4	880.2	862.6
42.5°	1009.2	1021.1	1031.0	1038.2	1035.0	1023.7	1009.2	1002.6	981.8	960.2	942.1
45°	1096.5	1121.3	1130.1	1138.8	1138.8	1131.7	1128.5	1115.1	1093.3	1064.5	1047.4
47.5°	1211.6	1244.6	1254.4	1269.5	1278.2	1270.5	1264.8	1242.1	1227.6	1187.9	1183.8
50°	1351.5	1384.6	1411.3	1428.9	1426.4	1433.1	1419.7	1406.7	1386.6	1354.1	1342.8
52.5°	1530.2	1556.4	1580.7	1591.1	1601.9	1600.4	1597.3	1588.6	1563.2	1545.6	1516.7
55°	1713.3	1735.1	1764.5	1781.6	1795.5	1792.8	1781.0	1759.9	1764.5	1727.9	1711.9
57.5°	1921.9	1945.7	1977.7	1993.8	2000.0	2031.3	2023.7	2021.1	2012.3	1999.4	1982.9
60°	2280.8	2287.4	2313.9	2354.1	2403.7	2393.8	2406.2	2414.5	2420.7	2391.7	2389.7
62.5°	2708.2	2716.5	2739.2	2747.5	2754.7	2755.7	2739.2	2739.2	2710.7	2673.6	2644.7
65°	2941.6	2924.5	2909.0	2900.3	2881.1	2864.2	2839.4	2805.8	2757.8	2700.5	2648.8
66°	2975.1	2940.5	2920.4	2898.2	2867.7	2836.3	2806.8	2760.9	2704.5	2636.4	2568.3
67.5°	2942.6	2895.1	2848.2	2815.6	2773.2	2716.5	2664.8	2611.1	2558.0	2464.6	2401.1
70°	2645.8	2588.9	2537.4	2466.0	2399.0	2343.2	2254.5	2161.1	2084.1	1986.1	1923.5
72.5°	1964.9	1897.7	1830.6	1730.5	1632.8	1618.5	1506.9	1397.0	1338.1	1259.2	1195.6
75°	970.6	885.9	765.5	711.9	633.9	595.8	574.6	495.1	476.0	397.9	397.1
77.5°	274.2	235.4	209.0	182.3	170.9	162.6	134.3	128.5	116.7	114.6	107.9
80°	103.8	98.1	95.5	93.0	90.3	88.8	87.8	83.6	81.6	78.4	77.0
82.5°	74.9	72.9	68.1	66.7	64.5	61.4	60.9	58.3	56.9	53.7	52.7
85°	50.6	48.0	45.5	42.8	41.8	41.3	39.7	38.6	37.7	36.1	35.7
87.5°	34.0	31.5	28.4	27.4	26.9	27.4	27.8	26.9	26.3	25.3	24.7
90°	12.9	14.6	14.0	14.0	15.0	13.8	13.7	13.9	13.3	13.0	12.3
92.5°	6.3	6.2	6.1	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9
95°	7.3	7.2	7.1	7.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	9.3	9.2	9.1	8.9	8.8	8.7	8.6	8.5	8.4	8.4	8.3
100°	23.7	23.4	23.2	22.9	22.5	22.2	21.8	21.4	21.0	20.6	20.2
102.5°	43.2	42.7	42.2	41.7	41.2	41.0	40.6	40.3	40.1	39.7	39.4
105°	65.8	65.3	64.8	64.3	63.8	63.4	63.0	62.6	62.3	61.8	61.4
107.5°	89.9	89.5	89.1	88.8	88.3	88.0	87.8	87.5	87.1	86.9	86.6



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	117.6	117.4	117.2	117.0	116.8	116.5	116.2	115.9	115.6	115.3	115.1	0°
112.5°	146.6	146.5	146.4	146.3	146.2	146.1	145.9	145.6	145.4	145.3	145.1	2.5°
115°	176.9	176.6	176.2	176.0	175.7	175.5	175.3	175.1	174.9	174.7	174.5	5°
117.5°	208.0	207.6	207.1	206.6	206.1	205.9	205.7	205.5	205.4	205.2	204.9	7.5°
120°	242.5	241.9	241.5	240.9	240.5	240.3	240.0	239.8	239.7	239.5	239.3	10°
122.5°	274.8	274.3	273.8	273.4	272.8	272.6	272.5	272.3	272.1	271.8	271.6	12.5°
125°	306.2	305.7	305.2	304.7	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°
127.5°	339.6	339.6	339.6	339.6	339.6	339.5	339.4	339.3	339.2	339.1	339.0	17.5°
130°	374.0	374.0	374.0	374.0	374.0	373.8	373.5	373.3	373.2	373.0	372.8	20°
132.5°	407.1	406.9	406.8	406.6	406.3	406.3	406.3	406.3	406.3	406.3	406.3	22.5°
135°	439.1	439.0	438.9	438.8	438.7	439.0	439.3	439.6	439.9	440.2	440.5	25°
137.5°	466.8	466.8	467.0	467.1	467.2	467.7	468.2	468.6	469.2	469.6	470.2	27.5°
140°	493.9	494.1	494.2	494.4	494.7	495.1	495.7	496.1	496.7	497.1	497.6	30°
142.5°	523.2	523.2	523.2	523.2	523.2	523.3	523.4	523.4	523.5	523.6	523.7	32.5°
145°	551.0	550.9	550.8	550.8	550.6	550.3	550.0	549.8	549.4	549.1	548.9	35°
147.5°	574.7	574.8	574.9	575.1	575.2	574.8	574.6	574.3	573.9	573.7	573.4	37.5°
150°	590.6	590.9	591.3	591.5	591.8	592.2	592.4	592.7	593.0	593.3	593.6	40°
152.5°	605.0	605.4	605.7	606.2	606.5	607.1	607.5	608.1	608.5	609.1	609.5	42.5°
155°	622.3	622.7	623.2	623.7	624.2	624.4	624.6	624.8	625.0	625.2	625.4	45°
157.5°	637.2	637.3	637.5	637.8	638.0	638.0	638.0	638.0	638.0	638.0	638.0	47.5°
160°	649.9	649.7	649.4	649.0	648.8	648.7	648.6	648.5	648.4	648.3	648.1	50°
162.5°	658.0	657.9	657.8	657.6	657.6	657.4	657.2	657.0	656.8	656.6	656.4	52.5°
165°	666.3	666.5	666.8	667.1	667.4	667.2	667.0	666.8	666.6	666.5	666.3	55°
167.5°	673.7	674.1	674.4	674.9	675.3	675.3	675.3	675.3	675.3	675.3	675.3	57.5°
170°	679.2	679.7	680.2	680.6	681.2	681.4	681.5	681.7	681.9	682.2	682.4	60°
172.5°	680.4	680.6	680.7	680.9	681.2	681.4	681.5	681.7	681.9	682.2	682.4	62.5°
175°	682.7	682.8	682.9	683.0	683.1	682.9	682.7	682.5	682.4	682.2	681.9	65°
177.5°	687.2	687.5	687.7	687.8	688.0	687.7	687.5	687.1	686.8	686.6	686.2	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

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	82°	
914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	110°	114.7
917.9	916.3	916.8	914.7	914.3	915.4	915.8	915.8	914.3	905.0	894.2	112.5°	144.9
904.4	901.4	900.8	899.3	896.7	899.8	898.2	895.7	892.6	881.8	860.6	115°	174.3
879.7	877.6	874.9	873.0	871.4	870.4	869.9	867.3	861.7	841.5	805.9	117.5°	204.7
855.9	853.4	850.2	845.7	843.6	840.5	840.5	834.3	830.1	804.8	752.2	120°	239.1
832.7	828.1	826.5	823.4	817.7	815.1	811.5	805.3	799.1	768.7	699.5	122.5°	271.5
815.1	810.5	803.8	801.7	795.4	789.9	785.2	776.9	770.3	730.0	644.3	125°	304.3
796.1	792.5	785.2	780.5	773.9	767.2	759.3	749.1	744.4	693.3	591.6	127.5°	338.9
780.5	772.4	764.1	759.9	751.6	743.9	736.3	723.8	714.5	657.2	535.9	130°	372.5
762.5	755.3	746.5	739.2	727.9	719.1	710.4	697.4	686.0	620.5	479.5	132.5°	406.3
750.2	739.8	730.5	722.2	709.3	699.0	686.7	672.7	661.3	585.4	417.6	135°	440.8
742.9	732.6	720.7	710.4	695.4	683.5	670.0	654.5	640.1	556.9	359.3	137.5°	470.6
740.8	728.4	715.9	703.1	687.7	672.7	656.8	641.2	622.5	529.7	295.8	140°	498.1
747.0	732.0	718.0	702.7	684.6	667.5	651.5	631.4	612.7	505.9	233.3	142.5°	523.8
764.1	746.0	730.0	713.0	692.2	673.7	654.5	631.9	611.3	489.4	178.7	145°	548.5
790.9	773.9	755.3	738.2	714.5	693.9	672.7	648.4	623.6	482.7	134.7	147.5°	573.1
845.0	822.4	803.3	785.2	757.8	736.7	712.4	683.0	655.1	488.9	112.6	150°	593.9
921.0	892.6	874.9	859.0	824.9	801.7	773.9	740.3	708.9	506.5	99.2	152.5°	609.9
1025.8	1004.0	972.7	947.8	913.3	887.4	856.4	816.2	781.1	531.2	92.4	155°	625.6
1156.8	1128.5	1097.5	1072.3	1034.6	989.7	957.1	908.5	868.8	570.0	89.3	157.5°	638.0
1317.5	1283.4	1241.5	1220.3	1168.2	1133.1	1089.8	1037.6	987.1	629.8	90.9	160°	648.0
1491.9	1455.3	1422.7	1382.5	1335.0	1295.7	1254.4	1199.2	1135.7	743.3	97.1	162.5°	656.2
1676.2	1652.5	1621.5	1569.4	1543.6	1494.0	1441.3	1380.4	1334.5	891.0	112.0	165°	666.0
1944.7	1918.9	1915.3	1864.2	1825.0	1780.0	1738.7	1688.2	1633.8	1153.2	147.1	167.5°	675.3
2357.7	2330.8	2300.4	2260.7	2214.1	2158.4	2107.3	2039.2	1978.8	1416.1	163.6	170°	682.5
2602.4	2552.8	2498.1	2437.7	2370.1	2300.9	2232.3	2145.1	2057.2	1432.1	147.6	172.5°	682.5
2581.7	2520.4	2450.6	2368.5	2297.2	2212.1	2138.2	2025.8	1945.7	1275.1	120.4	175°	681.7
2505.4	2421.2	2355.6	2280.3	2191.0	2114.5	2036.5	1925.6	1834.2	1169.3	110.0	177.5°	685.9
2309.7	2237.9	2147.1	2074.7	2008.7	1917.3	1844.0	1740.3	1677.2	1013.8	98.6	180°	687.0
1846.1	1746.9	1670.1	1613.7	1539.0	1456.3	1391.3	1304.0	1248.3	671.1	85.2		
1075.3	1050.6	964.3	915.8	870.4	803.3	751.6	709.8	636.4	325.3	75.4		
331.5	308.2	305.2	259.1	274.2	234.4	228.2	207.5	207.5	125.0	59.4		
105.8	103.8	99.6	94.0	91.9	91.9	89.3	88.8	84.7	67.1	44.4		
74.9	73.3	71.8	70.2	69.2	69.7	67.6	66.7	65.6	48.5	35.1		
51.7	50.0	47.0	47.0	45.9	45.5	45.9	43.8	43.4	34.0	29.5		
35.1	34.6	34.0	33.6	33.1	32.5	32.0	30.5	29.5	23.7	20.6		
23.3	19.7	19.1	16.5	16.0	15.5	14.5	15.5	17.1	17.1	13.5		
12.7	11.9	12.3	12.0	11.0	11.5	11.5	10.5	10.5	12.0	13.5		
5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9		
6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8		
8.2	8.1	7.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.8		
19.9	19.4	19.0	18.7	18.7	18.7	18.7	18.7	18.7	18.7	22.5		
39.2	38.9	38.5	38.3	38.1	37.9	37.7	37.5	37.3	38.3	41.2		
61.1	60.6	60.3	59.8	59.8	59.8	59.8	59.8	59.8	59.8	63.8		
86.2	86.0	85.7	85.4	85.2	85.0	84.8	84.6	84.4	85.4	88.3		

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TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
114.4	114.2	113.8	114.1	114.3	114.4	114.6	114.8	113.8	116.8	0°	914.7	914.7
144.6	144.4	144.3	144.3	144.3	144.3	144.3	144.3	144.3	146.2	2.5°	884.8	876.6
174.1	173.9	173.7	173.9	174.1	174.3	174.5	174.7	173.7	175.7	5°	837.8	819.3
204.5	204.4	204.2	204.4	204.5	204.7	204.9	205.2	204.2	206.1	7.5°	774.4	738.2
238.9	238.7	238.5	238.5	238.5	238.5	238.5	238.5	238.5	240.5	10°	701.6	649.5
271.3	271.1	270.9	271.1	271.3	271.5	271.6	271.8	270.9	272.8	12.5°	626.2	559.6
304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°	556.1	467.7
338.8	338.8	338.6	339.0	339.4	339.8	340.2	340.5	338.6	339.6	17.5°	482.2	373.2
372.3	372.2	372.0	372.2	372.3	372.5	372.8	373.0	372.0	374.0	20°	411.4	281.9
406.3	406.3	406.3	406.6	406.8	406.9	407.1	407.3	406.3	406.3	22.5°	331.5	197.8
441.1	441.3	441.7	441.9	442.1	442.2	442.4	442.7	441.7	438.7	25°	243.1	143.5
471.1	471.6	472.1	472.3	472.5	472.7	472.9	473.0	472.1	467.2	27.5°	173.5	114.6
498.6	499.1	499.5	500.0	500.4	500.7	501.2	501.5	499.5	494.7	30°	129.5	96.6
523.9	524.0	524.1	524.5	524.9	525.3	525.7	526.0	524.1	523.2	32.5°	103.8	83.6
548.2	548.0	547.7	548.1	548.4	548.9	549.2	549.7	547.7	550.6	35°	88.2	75.9
572.8	572.5	572.2	572.6	573.0	573.4	573.7	574.2	572.2	575.2	37.5°	79.1	70.8
594.2	594.5	594.8	595.6	596.4	597.1	597.9	598.7	594.8	591.8	40°	73.8	68.1
610.5	610.9	611.5	612.5	613.5	614.4	615.4	616.3	611.5	606.5	42.5°	70.8	65.6
625.8	626.0	626.2	626.7	627.4	627.9	628.5	629.2	626.2	624.2	45°	69.2	64.0
638.0	638.0	638.0	639.0	640.0	640.9	641.9	642.8	638.0	638.0	47.5°	68.1	61.9
647.9	647.9	647.8	648.9	650.1	651.3	652.5	653.7	647.8	648.8	50°	67.1	61.9
656.0	655.9	655.7	656.8	658.0	659.2	660.3	661.5	655.7	657.6	52.5°	67.6	63.0
665.8	665.6	665.5	666.3	667.0	667.8	668.6	669.3	665.5	667.4	55°	70.2	63.0
675.3	675.3	675.3	676.4	677.6	678.8	679.9	681.2	675.3	675.3	57.5°	74.3	63.0
682.7	682.9	683.1	684.1	685.0	686.0	687.0	688.0	683.1	681.2	60°	77.4	64.0
682.7	682.9	683.1	684.1	685.0	686.0	687.0	688.0	683.1	681.2	62.5°	78.4	66.0
681.5	681.4	681.2	682.2	683.1	684.1	685.0	686.0	681.2	683.1	65°	77.4	67.1
685.7	685.4	685.0	685.9	686.7	687.5	688.2	689.0	685.0	688.0	66°	76.4	67.1
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	74.9	66.0
										70°	71.2	61.9
										72.5°	64.0	55.8
										75°	54.8	44.9
										77.5°	44.4	36.1
										80°	33.1	27.4
										82.5°	24.3	21.2
										85°	17.1	15.0
										87.5°	10.3	9.3
										90°	11.4	9.4
										92.5°	6.8	6.8
										95°	7.8	6.8
										97.5°	9.8	11.8
										100°	25.5	28.5
										102.5°	46.2	49.0
										105°	68.7	70.7
										107.5°	92.3	93.2



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tinued):

135°	145°	155°	165°	175°	180°
914.7	914.7	914.7	914.7	914.7	914.7
870.9	870.4	857.5	854.8	846.1	850.8
797.1	788.4	765.1	760.4	750.6	748.1
708.9	684.6	665.9	645.3	625.7	635.6
605.5	564.8	524.0	497.1	486.3	482.7
507.5	434.2	383.0	330.4	311.8	318.4
388.8	305.2	237.0	206.5	188.9	185.9
274.2	195.7	164.2	156.5	152.8	152.8
185.9	149.2	137.4	133.7	133.7	134.3
141.4	125.4	120.4	120.8	122.9	123.3
117.2	111.0	108.4	112.0	116.2	116.7
101.1	99.6	100.1	104.8	109.0	109.4
88.8	90.3	92.4	96.6	100.1	101.1
79.9	82.6	84.1	86.8	88.8	89.3
73.8	77.0	76.4	78.0	79.5	79.9
70.2	71.8	70.2	71.2	71.2	72.2
67.1	67.6	65.0	65.6	66.7	66.7
64.0	63.5	60.9	61.9	63.5	64.0
60.9	59.8	57.9	59.8	62.4	63.0
58.3	57.3	56.2	58.9	61.9	62.4
57.3	56.2	55.2	58.9	61.9	62.4
57.3	56.2	55.2	57.9	60.9	61.4
57.9	56.9	54.8	57.3	59.4	59.8
58.3	57.3	53.7	55.2	56.2	56.9
58.3	56.2	52.7	53.2	53.2	53.7
57.3	54.8	50.6	50.6	50.0	50.0
57.3	52.7	48.5	47.5	46.4	46.4
56.9	52.1	48.0	46.4	44.9	44.9
55.8	51.1	47.0	44.9	43.4	43.4
52.1	49.0	44.4	42.3	40.9	40.2
46.4	44.9	41.3	39.7	38.2	37.7
39.3	39.7	37.7	36.7	35.1	34.6
33.1	34.0	33.1	32.5	31.5	31.0
26.3	28.4	27.4	27.4	27.8	26.9
20.1	22.6	21.6	22.6	23.7	22.2
13.9	16.5	16.5	17.1	17.6	16.5
8.7	10.8	10.3	10.8	10.8	10.3
8.9	11.5	9.9	10.0	7.5	7.0
5.9	5.9	5.9	4.9	4.0	4.0
6.8	6.8	6.8	5.9	4.9	4.9
8.8	8.8	7.8	7.8	6.8	6.8
20.6	11.8	9.8	8.8	7.8	7.8
39.3	26.5	17.7	12.8	10.8	10.8
61.8	47.1	35.3	26.5	21.6	20.6
86.3	71.7	57.0	48.1	41.2	40.2

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
110°	118.8	117.8	111.9
112.5°	147.2	145.3	140.3
115°	178.7	175.7	170.8
117.5°	211.0	207.1	201.2
120°	245.3	241.5	238.5
122.5°	277.8	273.8	271.8
125°	309.2	307.2	304.3
127.5°	339.6	338.6	333.7
130°	374.0	370.0	365.1
132.5°	408.3	403.4	397.5
135°	439.7	434.8	428.9
137.5°	466.2	464.2	459.3
140°	492.7	490.7	487.8
142.5°	523.2	517.2	515.3
145°	551.6	545.7	540.8
147.5°	574.2	569.3	564.3
150°	588.9	586.0	582.0
152.5°	602.7	599.7	598.7
155°	619.3	614.4	616.3
157.5°	636.0	632.0	633.0
160°	651.7	645.8	642.8
162.5°	658.5	654.7	650.7
165°	664.5	659.5	660.5
167.5°	671.3	665.5	672.3
170°	676.2	673.3	678.2
172.5°	679.2	676.2	677.2
175°	682.2	677.2	677.2
177.5°	686.0	681.2	682.2
180°	687.0	687.0	687.0



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145°	155°	165°	175°	180°
100.1	85.4	72.7	66.7	64.8
131.5	118.8	104.0	97.2	97.2
164.9	156.0	144.3	136.5	137.4
198.3	193.3	185.5	180.6	180.6
232.6	228.7	221.8	218.8	220.8
266.0	262.0	256.2	255.2	258.2
299.3	293.5	290.5	288.5	292.5
332.7	326.8	322.9	322.9	323.9
363.2	359.2	355.3	354.3	356.3
396.5	393.5	385.7	386.7	388.7
427.0	424.0	418.1	418.1	421.0
455.4	451.5	450.5	448.5	451.5
481.9	480.0	478.0	476.0	479.0
511.3	508.4	507.5	505.5	508.4
539.8	536.8	534.0	535.9	539.8
563.3	563.3	560.5	561.4	564.3
582.0	582.0	582.0	581.0	584.0
598.7	597.7	596.7	596.7	599.7
618.3	615.4	613.5	613.5	617.3
634.0	632.0	631.1	631.1	634.0
642.8	643.8	646.8	647.8	650.7
648.8	652.7	656.6	656.6	660.5
660.5	663.5	663.5	665.5	668.4
675.3	673.3	671.3	674.3	677.2
680.2	679.2	679.2	682.2	685.0
677.2	680.2	682.2	684.1	686.0
678.2	682.2	684.1	685.0	687.0
684.1	686.0	687.0	692.0	693.9
687.0	687.0	687.0	687.0	687.0

(END OF REPORT)