

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: P227344

Luminaire Tested: **IST-AF-600-LED-E1-SLR-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)-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-SLR-7030-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, 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: 4860.2 lumens
Efficiency: N/A
Efficacy: 96.4 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: B1 - U5 - G2

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

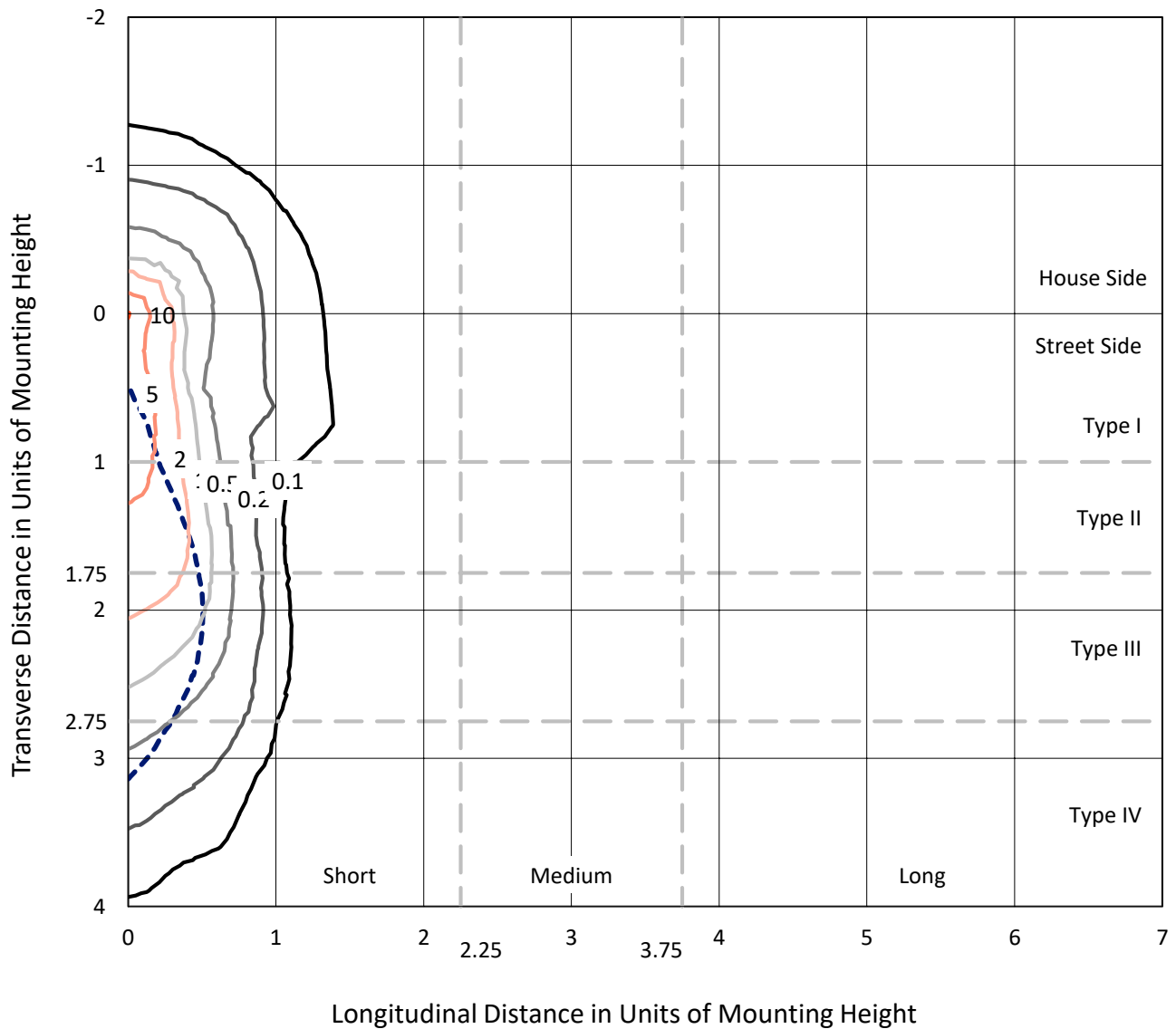


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

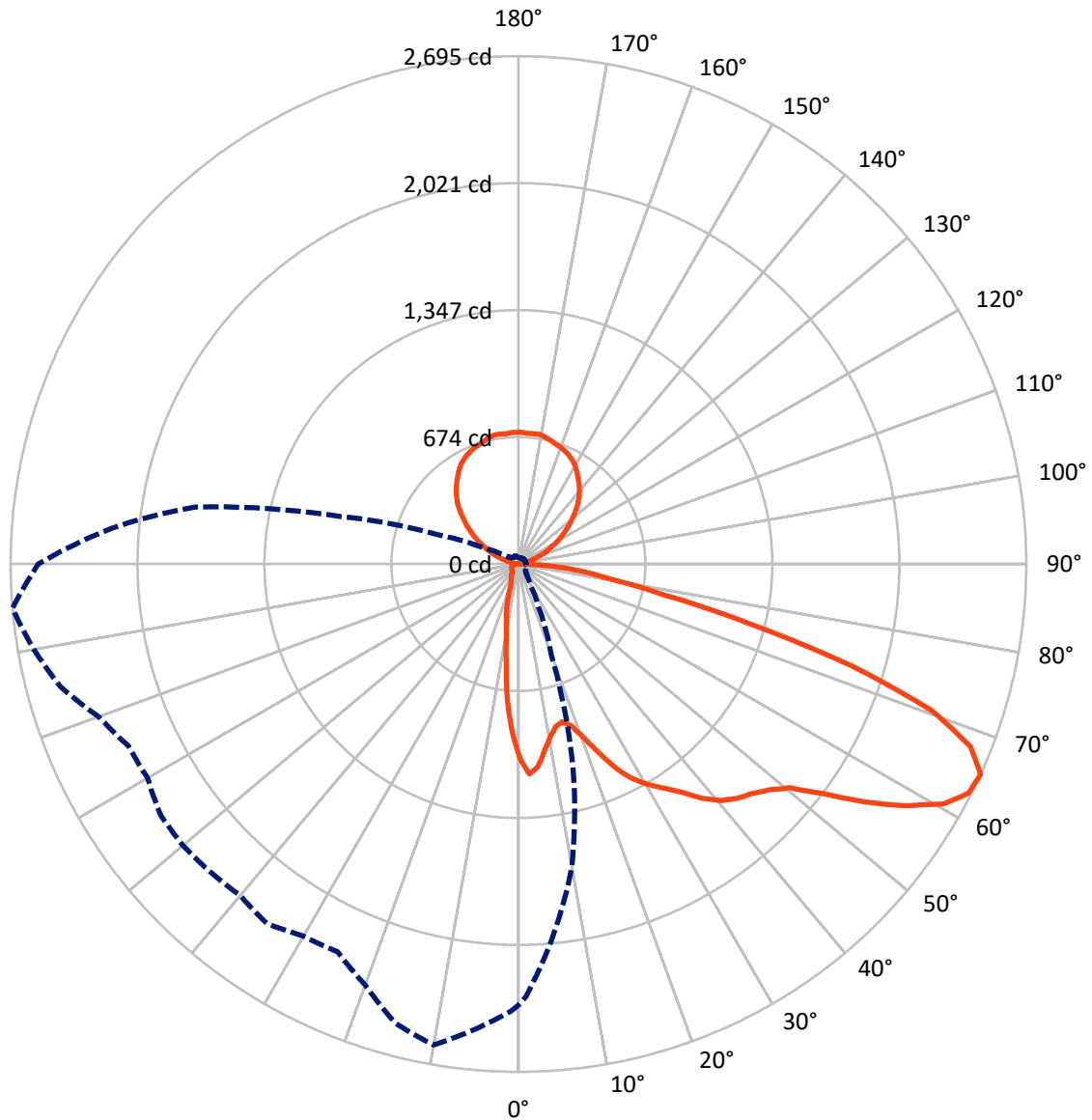


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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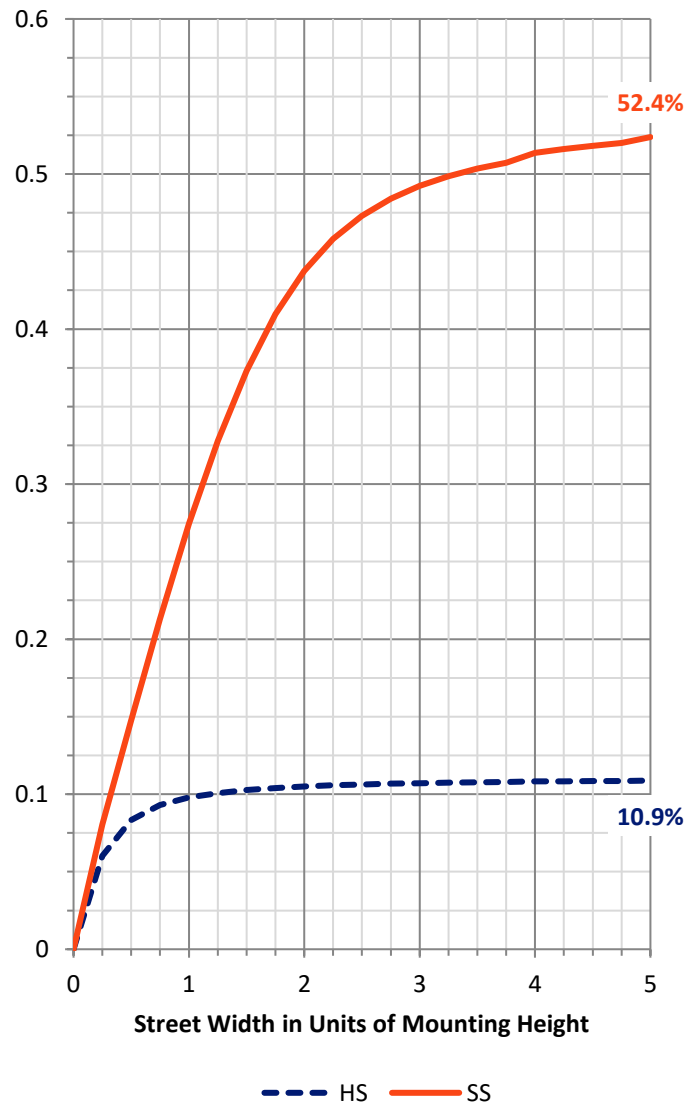
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	536.4	867.6	1404.0
	% Fixture	11.0	17.9	28.9
Street Side	Lumens	2588.5	867.7	3456.2
	% Fixture	53.3	17.9	71.1
Total	Lumens	3124.9	1735.3	4860.2
	% Fixture	64.3	35.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	1.6
10°-20°	147.1	3.0
20°-30°	209.8	4.3
30°-40°	304.3	6.3
40°-50°	435.4	9.0
50°-60°	668.5	13.8
60°-70°	773.7	15.9
70°-80°	394.7	8.1
80°-90°	114.9	2.4
90°-100°	9.4	0.2
100°-110°	57.4	1.2
110°-120°	166.1	3.4
120°-130°	273.2	5.6
130°-140°	336.8	6.9
140°-150°	344.6	7.1
150°-160°	290.3	6.0
160°-170°	191.2	3.9
170°-180°	66.3	1.4
0°-90°	3124.9	64.3
0°-180°	4860.2	100.0



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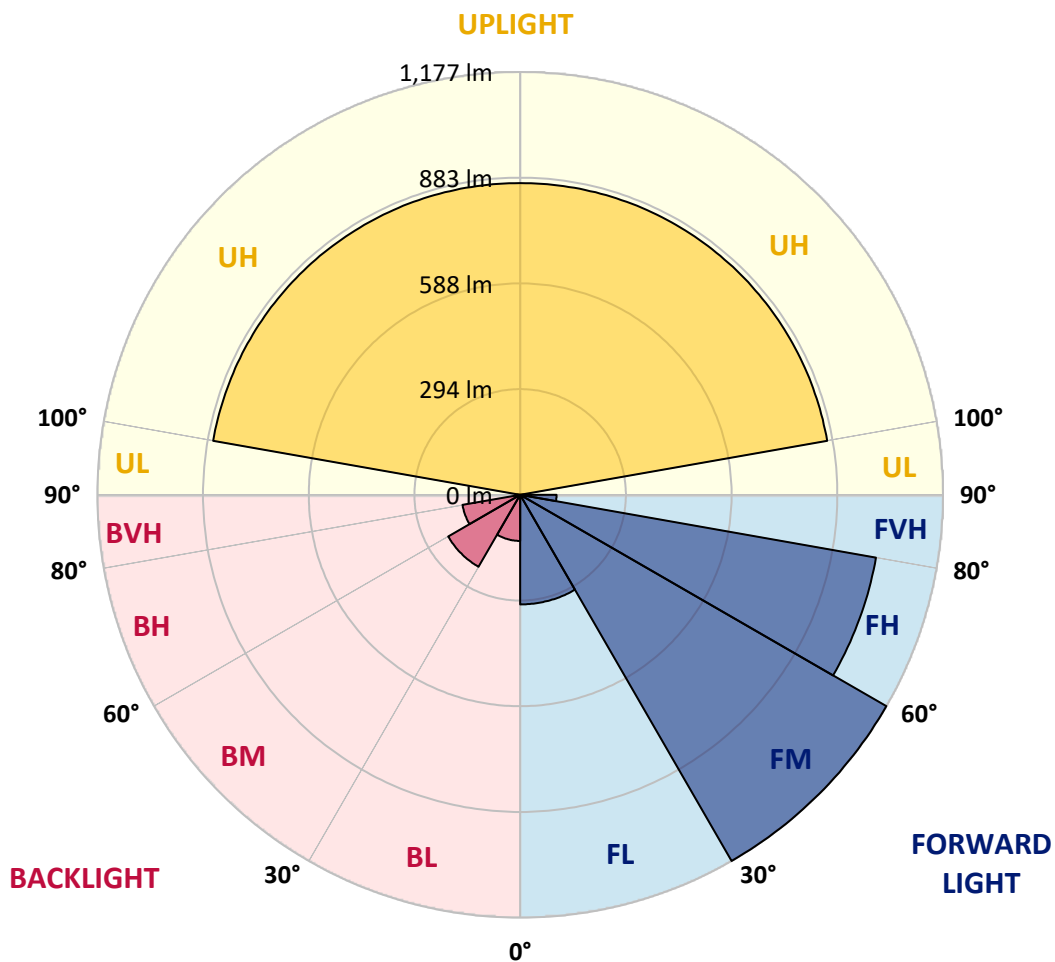
CATALOG NUMBER: IST-AF-600-LED-E1-SLR-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	305.1	6.3			
FM	(30°-60°)	1176.8	24.2			
FH	(60°-80°)	1005.5	20.7			G1/1800
FVH	(80°-90°)	101.2	2.1			G2/225
BL	(0°-30°)	128.3	2.6	B1/500		
BM	(30°-60°)	231.4	4.8	B1/1000		
BH	(60°-80°)	163.0	3.4	B1/500		G1/500
BVH	(80°-90°)	13.7	0.3			G1/100
UL	(90°-100°)	9.4	0.2		U1/10	
UH	(100°-180°)	867.6	17.9		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0
2.5°	1068.3	1062.0	1054.1	1040.5	1028.4	1011.0	1006.8	985.3	971.6	974.7	950.0
5°	1003.1	999.5	980.0	949.5	929.5	890.1	867.5	855.9	823.3	819.1	810.2
7.5°	911.7	900.6	869.1	831.2	797.0	768.1	731.8	704.0	679.3	664.0	637.2
10°	833.3	821.7	787.6	741.3	700.3	659.8	630.4	594.1	558.9	531.5	510.0
12.5°	795.5	782.8	742.9	689.3	643.5	593.0	551.5	515.8	496.3	482.6	464.8
15°	810.2	791.8	743.9	679.8	623.0	569.4	525.2	486.8	463.7	442.7	421.7
17.5°	869.6	847.0	792.3	715.0	636.2	566.8	503.7	460.0	423.2	391.7	363.3
20°	971.6	954.8	875.4	767.1	664.5	568.3	485.3	428.0	383.3	343.3	305.5
22.5°	1090.9	1065.7	987.9	837.5	700.8	577.8	473.7	401.1	348.0	294.4	253.4
25°	1216.1	1196.6	1093.6	932.2	756.6	597.3	464.8	377.5	306.5	247.1	201.9
27.5°	1317.0	1299.7	1197.7	1023.1	807.6	614.1	451.6	354.9	273.4	201.9	151.9
30°	1399.5	1384.8	1278.1	1097.8	869.6	619.9	433.2	328.6	236.6	163.0	125.7
32.5°	1492.1	1475.8	1355.4	1149.8	897.5	614.6	412.2	303.9	207.1	144.1	107.8
35°	1593.5	1574.6	1441.6	1206.1	920.6	596.2	394.3	286.0	193.0	130.9	95.7
37.5°	1684.0	1671.9	1519.4	1261.8	946.9	565.7	377.0	266.6	183.5	121.4	86.2
40°	1754.4	1751.3	1605.6	1308.1	967.4	543.6	362.8	251.3	171.4	117.8	83.1
42.5°	1811.2	1810.2	1676.1	1349.6	972.6	524.2	351.7	237.6	160.4	108.8	84.6
45°	1865.9	1865.4	1744.4	1407.4	976.3	525.2	343.3	229.2	150.9	103.0	79.9
47.5°	1917.9	1925.8	1815.9	1487.9	1015.2	543.1	340.2	221.3	143.5	96.7	75.7
50°	2005.2	1997.3	1929.0	1596.7	1077.8	577.8	334.9	214.5	136.7	91.0	71.5
52.5°	2170.8	2161.9	2100.9	1742.3	1146.1	613.6	328.1	205.0	128.8	84.6	66.8
55°	2373.2	2385.3	2300.7	1919.5	1239.2	643.5	320.7	192.4	118.3	77.3	63.6
57.5°	2492.1	2482.1	2385.3	2021.5	1296.5	658.8	316.0	177.7	102.0	71.0	60.5
59°	2519.9	2503.1	2371.1	2038.9	1311.7	651.4	313.3	163.5	93.6	67.8	58.9
60°	2517.3	2496.8	2348.5	2027.8	1316.0	642.5	309.1	155.1	88.9	66.2	58.4
62.5°	2463.1	2431.1	2220.2	1894.3	1257.1	597.8	291.8	135.1	82.5	64.1	55.2
65°	2340.1	2294.9	2004.7	1633.5	1122.0	508.9	252.4	127.8	84.1	63.1	53.1
67.5°	2127.7	2091.4	1727.6	1351.7	894.3	411.1	218.2	124.6	86.2	64.1	49.9
70°	1730.8	1699.8	1348.0	1012.1	669.8	327.0	198.2	123.0	84.6	61.5	47.3
72.5°	1220.8	1167.2	895.9	708.7	424.8	262.9	171.9	116.2	82.5	59.4	43.1
75°	742.9	752.9	569.4	516.3	268.1	180.3	135.1	97.8	73.1	53.1	38.9
77.5°	490.0	489.5	420.1	364.3	136.2	112.0	95.7	75.2	57.3	43.6	33.6
80°	332.3	336.0	304.9	248.7	75.7	67.3	62.6	54.7	42.1	33.1	27.9
82.5°	204.5	205.0	236.1	186.1	50.5	42.6	40.0	36.8	30.0	25.8	21.6
85°	71.0	72.6	82.5	131.4	34.2	27.9	27.9	25.8	22.6	17.3	14.2
87.5°	30.5	30.0	35.8	35.8	16.8	14.2	13.1	13.1	12.6	9.5	7.9
90°	7.1	6.6	6.6	8.1	9.6	11.2	11.2	11.7	11.7	10.7	9.1
92.5°	4.0	4.0	4.0	4.5	5.0	5.5	6.0	6.0	6.0	6.0	6.0
95°	5.0	5.0	5.0	5.5	6.0	6.5	7.0	7.0	7.0	7.0	7.0
97.5°	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.5	9.0	9.0	9.0
100°	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0	12.0	16.5	21.0
102.5°	11.0	11.0	11.0	12.0	13.0	15.5	18.0	22.5	27.0	33.5	40.0
105°	21.0	21.2	22.0	24.5	27.0	31.5	36.0	42.0	48.0	55.5	63.0
107.5°	41.0	41.2	42.0	45.5	49.0	53.5	58.0	65.5	73.0	80.5	88.0



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CATALOG NUMBER: IST-AF-600-LED-E1-SLR-7030-ULG

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	66.0	66.4	68.0	71.0	74.0	80.5	87.0	94.5	102.0	108.0	114.0
112.5°	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	134.0	138.5	143.0
115°	140.0	139.8	139.0	143.0	147.0	153.0	159.0	163.5	168.0	171.0	174.0
117.5°	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	202.0	203.5	205.0
120°	225.0	224.6	223.0	224.5	226.0	229.5	233.0	235.0	237.0	240.0	243.0
122.5°	263.0	262.4	260.0	260.5	261.0	264.0	267.0	269.0	271.0	274.0	277.0
125°	298.0	297.2	294.0	295.0	296.0	297.5	299.0	302.0	305.0	307.5	310.0
127.5°	330.0	329.8	329.0	329.0	329.0	331.0	333.0	336.0	339.0	339.5	340.0
130°	363.0	362.6	361.0	361.5	362.0	364.0	366.0	368.0	370.0	371.0	372.0
132.5°	396.0	395.6	394.0	393.5	393.0	397.0	401.0	402.5	404.0	404.5	405.0
135°	429.0	428.4	426.0	426.0	426.0	429.0	432.0	433.5	435.0	436.0	437.0
137.5°	460.0	459.4	457.0	458.0	459.0	459.5	460.0	462.0	464.0	466.0	468.0
140°	488.0	487.4	485.0	486.0	487.0	488.0	489.0	490.0	491.0	494.0	497.0
142.5°	518.0	517.4	515.0	516.0	517.0	517.5	518.0	519.5	521.0	523.0	525.0
145°	550.0	549.2	546.0	545.0	544.0	545.5	547.0	548.5	550.0	550.5	551.0
147.5°	575.0	574.4	572.0	571.5	571.0	572.5	574.0	574.0	574.0	574.5	575.0
150°	595.0	594.4	592.0	592.5	593.0	593.0	593.0	593.0	593.0	593.0	593.0
152.5°	611.0	610.4	608.0	608.0	608.0	608.5	609.0	609.5	610.0	610.0	610.0
155°	629.0	628.2	625.0	625.0	625.0	626.0	627.0	628.5	630.0	629.0	628.0
157.5°	646.0	645.4	643.0	643.0	643.0	643.5	644.0	645.0	646.0	645.5	645.0
160°	663.0	662.4	660.0	659.5	659.0	657.5	656.0	655.5	655.0	655.0	655.0
162.5°	673.0	672.2	669.0	669.0	669.0	667.0	665.0	663.0	661.0	662.0	663.0
165°	681.0	680.4	678.0	677.0	676.0	676.0	676.0	674.5	673.0	673.0	673.0
167.5°	690.0	689.4	687.0	685.5	684.0	685.0	686.0	687.0	688.0	686.5	685.0
170°	698.0	697.4	695.0	693.5	692.0	692.0	692.0	692.5	693.0	692.0	691.0
172.5°	699.0	698.6	697.0	696.0	695.0	694.0	693.0	691.5	690.0	690.0	690.0
175°	700.0	699.6	698.0	697.5	697.0	696.0	695.0	693.0	691.0	690.5	690.0
177.5°	707.0	706.6	705.0	702.5	700.0	699.5	699.0	698.0	697.0	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0
2.5°	942.7	936.9	920.6	916.4	921.6	911.1	908.5	905.9	886.4	896.4	884.8
5°	788.1	786.5	753.4	760.2	753.4	741.8	737.1	748.1	728.7	732.9	735.5
7.5°	605.7	599.4	577.3	562.6	553.6	545.7	535.7	519.4	532.1	529.4	549.4
10°	491.6	477.9	464.2	443.7	432.2	421.1	409.6	403.3	388.5	387.0	380.1
12.5°	450.6	431.1	413.8	395.9	383.8	361.7	343.3	331.7	322.3	307.6	296.5
15°	395.9	379.6	357.0	339.6	320.7	300.7	282.9	268.1	261.3	247.6	241.3
17.5°	340.7	316.0	288.6	271.3	245.0	224.5	209.8	200.3	190.3	181.9	174.5
20°	274.4	242.4	212.9	190.8	170.3	150.4	143.5	132.0	127.8	124.6	127.2
22.5°	208.7	175.6	145.1	128.3	117.2	112.0	106.2	104.1	102.5	102.0	103.0
25°	153.0	125.1	110.4	104.1	99.9	96.7	94.6	93.1	92.0	91.5	92.0
27.5°	118.3	103.6	96.2	92.0	88.9	86.7	85.7	84.1	83.6	83.1	83.6
30°	102.5	94.6	89.4	85.2	81.5	77.8	76.2	75.7	76.2	76.8	76.2
32.5°	89.4	83.6	77.8	74.1	71.5	69.4	69.4	68.3	68.3	69.9	70.5
35°	81.0	75.2	71.0	66.2	63.1	61.0	59.4	58.4	58.9	58.9	60.5
37.5°	74.1	69.9	66.2	62.0	58.9	56.8	55.7	54.7	54.2	53.6	53.6
40°	69.4	66.8	63.6	59.4	56.3	54.2	53.1	52.0	51.5	51.0	51.0
42.5°	69.4	64.1	62.0	58.4	54.7	52.6	51.0	49.9	48.9	48.9	48.9
45°	76.2	65.7	62.0	57.8	54.2	51.5	49.9	48.4	47.3	47.3	46.8
47.5°	74.1	73.6	63.1	57.8	54.7	51.5	49.4	47.8	46.8	46.3	45.7
50°	70.5	76.8	70.5	59.4	54.7	51.0	48.9	47.3	45.7	45.2	45.2
52.5°	68.3	71.5	73.1	61.5	55.2	51.0	48.4	46.8	45.7	44.7	44.2
55°	63.1	67.3	69.9	60.5	55.2	49.9	47.3	45.7	44.2	43.6	43.1
57.5°	57.8	61.0	67.3	60.5	53.6	49.4	46.3	44.2	43.1	42.6	42.1
59°	56.3	56.3	59.9	62.0	52.6	48.9	45.7	43.6	42.6	42.1	41.0
60°	54.7	54.7	56.8	63.6	52.0	48.4	45.2	43.1	41.5	41.5	41.0
62.5°	52.6	51.0	52.0	59.4	50.5	47.3	44.2	42.1	40.5	40.5	40.0
65°	49.9	47.8	47.8	49.4	47.3	45.2	43.1	41.0	38.9	38.9	39.4
67.5°	47.3	45.2	44.7	44.7	43.6	43.1	41.0	38.9	37.9	37.9	37.9
70°	43.6	42.1	41.5	40.5	40.5	40.0	38.4	36.8	35.8	36.3	35.8
72.5°	39.4	38.4	37.3	37.3	36.8	36.3	34.7	33.6	33.1	33.6	33.6
75°	35.2	33.6	33.6	32.6	32.6	32.1	30.5	30.0	29.4	30.0	30.5
77.5°	30.0	28.9	28.4	28.4	28.4	28.4	26.3	25.8	25.8	26.8	26.8
80°	24.7	24.2	23.7	23.7	23.7	23.1	22.1	21.6	21.6	22.1	22.6
82.5°	18.9	17.9	17.9	18.4	18.9	18.9	17.3	16.3	16.3	17.3	18.4
85°	12.6	12.6	12.6	13.1	13.1	13.7	12.6	11.0	11.6	12.1	13.7
87.5°	6.8	7.4	6.8	6.3	7.4	6.8	6.8	6.3	6.8	7.4	7.9
90°	9.1	9.1	9.6	10.1	9.5	10.1	9.1	8.6	7.5	7.5	9.1
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



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CATALOG NUMBER: IST-AF-600-LED-E1-SLR-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: P227344

CATALOG NUMBER: IST-AF-600-LED-E1-SLR-7030-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0
2.5°	895.4	886.4	881.7	900.1	898.5	882.7	882.7	893.8	894.3	884.8	895.9
5°	738.7	729.7	738.2	730.8	735.0	734.5	740.8	729.2	733.9	729.7	719.8
7.5°	547.8	565.7	575.2	563.1	578.3	586.2	575.2	586.2	568.9	554.7	568.3
10°	377.0	396.9	393.3	412.7	420.1	424.3	432.2	422.2	410.1	406.4	396.4
12.5°	292.3	288.1	286.5	294.4	299.2	292.3	298.1	291.8	285.5	274.4	273.9
15°	228.7	221.9	217.1	208.2	205.0	206.6	209.2	209.2	196.6	197.2	201.9
17.5°	173.5	171.9	168.2	160.9	156.1	157.7	157.2	154.6	153.0	154.0	159.8
20°	130.4	128.8	130.9	133.0	131.4	132.0	129.9	127.2	126.2	127.2	128.3
22.5°	103.0	105.2	107.8	110.9	111.5	114.1	113.6	114.1	112.0	110.9	108.3
25°	94.1	95.2	93.6	94.1	94.1	96.7	96.2	96.2	94.1	93.6	94.1
27.5°	83.1	82.5	82.5	83.6	83.6	85.2	86.2	85.2	83.1	82.5	83.1
30°	76.8	76.2	75.7	76.2	75.7	76.2	77.3	77.3	76.2	74.7	75.2
32.5°	70.5	70.5	69.9	70.5	69.9	69.9	71.0	69.4	69.4	68.9	68.9
35°	62.0	63.1	64.1	64.7	64.7	64.7	65.7	64.1	63.6	63.1	63.1
37.5°	53.6	54.7	57.8	59.4	59.9	61.0	61.5	60.5	59.4	58.4	57.3
40°	51.0	51.0	52.0	54.2	56.3	56.8	57.8	56.3	55.7	54.2	52.6
42.5°	48.9	49.4	49.4	49.9	50.5	51.5	53.1	51.5	50.5	49.4	47.8
45°	47.3	47.3	47.3	47.3	46.8	46.8	47.3	46.3	45.7	45.2	45.2
47.5°	46.3	45.7	45.2	44.7	44.2	43.6	43.6	42.6	42.6	42.6	42.6
50°	45.2	44.2	43.6	43.1	42.1	42.1	42.1	41.0	40.5	40.5	41.0
52.5°	43.6	43.1	42.6	42.1	41.5	41.0	41.0	40.0	39.4	39.4	39.4
55°	43.1	42.6	41.5	41.0	40.5	41.0	40.5	40.0	38.9	38.9	38.9
57.5°	41.5	42.1	41.5	40.5	40.5	40.5	40.5	39.4	38.9	37.9	38.4
59°	41.0	41.5	41.0	40.5	40.0	40.5	40.5	38.9	38.4	37.9	37.9
60°	40.5	41.0	40.5	40.0	40.0	40.5	40.0	39.4	38.4	36.8	37.3
62.5°	40.0	40.0	39.4	39.4	38.9	39.4	38.9	37.9	36.8	35.8	35.2
65°	38.9	38.9	38.4	38.4	37.9	37.9	37.9	36.8	35.8	34.7	34.7
67.5°	38.4	37.9	37.3	37.3	36.8	36.8	36.8	35.8	34.2	33.6	33.1
70°	36.3	35.8	35.8	35.2	34.7	35.2	35.8	34.2	32.6	31.5	31.0
72.5°	34.2	33.6	33.6	33.1	33.1	33.6	34.2	32.6	30.5	29.4	28.9
75°	31.0	30.5	30.5	30.5	30.5	31.5	31.5	30.0	28.4	26.8	25.8
77.5°	26.8	27.3	27.3	27.3	27.3	28.4	28.4	27.3	25.8	24.7	23.1
80°	23.1	23.1	23.7	23.7	24.2	24.2	23.7	23.1	22.6	21.6	19.5
82.5°	19.5	19.5	19.5	19.5	19.5	18.9	17.9	18.9	18.9	17.9	16.3
85°	15.2	15.2	15.2	15.8	15.8	14.2	12.6	12.6	14.2	13.7	12.6
87.5°	8.9	8.9	9.5	11.0	10.0	9.5	7.9	8.4	7.9	8.9	7.4
90°	11.1	10.6	10.6	8.5	8.1	7.0	7.0	7.5	8.0	8.0	8.0
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



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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	59°
172.5°	694.0	693.0	692.0	690.5	689.0	689.5	690.0	690.0	690.0	691.5	693.0	60°
175°	696.0	695.5	695.0	692.5	690.0	690.0	690.0	690.5	691.0	693.0	695.0	62.5°
177.5°	701.0	700.0	699.0	696.5	694.0	694.5	695.0	696.0	697.0	698.0	699.0	65°
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°



NUMBER: P227344
 NUMBER: IST-AF-600-LED-E1-SLR-7030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	110°	80.5
896.9	899.0	903.8	902.2	919.5	914.3	926.4	942.7	957.9	950.6	952.7	112.5°	113.5
737.6	740.3	720.3	732.4	750.2	742.9	740.3	764.4	758.7	786.0	763.4	115°	153.0
546.3	539.9	530.5	525.8	512.6	512.6	537.3	548.4	546.8	565.7	585.2	117.5°	193.0
383.8	376.4	364.9	361.7	374.9	381.2	392.2	403.3	418.0	439.5	452.1	120°	229.5
281.8	279.2	281.8	289.7	301.8	310.7	327.5	347.0	363.3	380.6	397.5	122.5°	264.0
212.9	218.2	225.0	230.3	239.7	256.6	265.5	287.1	301.8	317.0	336.5	125°	297.5
165.6	168.8	170.3	172.4	180.3	192.4	192.4	214.5	234.0	253.9	270.2	127.5°	331.0
126.2	126.2	120.9	124.1	125.1	124.1	130.4	143.0	155.6	168.8	194.5	130°	364.0
105.7	102.5	100.9	100.4	100.9	103.0	106.7	111.5	113.6	119.3	129.3	132.5°	397.0
93.6	93.1	91.5	91.5	92.5	93.1	96.7	100.9	102.0	103.6	107.3	135°	429.0
82.5	83.6	85.2	84.6	85.2	86.2	88.9	92.5	94.6	95.2	97.8	137.5°	459.5
74.7	75.7	76.2	77.8	77.8	78.3	80.4	84.1	85.7	88.3	91.0	140°	488.0
69.4	69.9	70.5	69.9	70.5	70.5	73.1	76.8	78.9	80.4	82.0	142.5°	517.5
63.6	63.1	63.1	63.1	61.5	61.0	62.0	65.7	66.2	67.8	71.5	145°	545.5
56.8	55.2	54.2	54.2	54.2	54.7	57.3	61.0	61.5	63.1	66.2	147.5°	572.5
50.5	49.9	49.9	50.5	51.0	52.0	54.2	57.8	58.4	59.9	62.6	150°	593.0
47.3	47.3	47.3	47.8	48.4	48.9	51.5	55.2	56.3	57.8	61.0	152.5°	608.5
45.2	45.7	45.2	45.2	45.7	46.8	49.4	53.6	55.2	56.8	59.9	155°	626.0
43.6	43.6	43.6	44.2	44.2	45.2	48.4	52.6	53.6	55.7	60.5	157.5°	643.5
41.5	42.6	42.1	42.6	43.1	44.2	47.3	51.5	53.1	56.3	61.5	160°	657.5
40.5	40.5	40.5	41.0	42.1	42.6	45.2	49.9	52.0	56.3	64.7	162.5°	667.0
40.0	38.9	38.9	39.4	40.5	41.5	44.2	48.9	51.5	55.7	64.1	165°	676.0
39.4	37.9	37.3	37.9	38.9	39.4	42.6	47.3	51.0	54.2	62.0	167.5°	685.0
37.9	36.8	36.3	36.8	37.9	38.9	41.5	46.3	48.9	53.1	59.4	170°	692.0
37.3	35.8	35.8	36.3	37.3	37.9	40.5	45.2	47.8	53.6	61.0	172.5°	694.0
35.2	34.7	34.7	35.2	35.2	36.3	39.4	44.2	46.3	54.7	51.0	175°	696.0
33.6	33.6	33.6	33.6	34.2	34.7	38.4	43.1	44.2	47.3	43.6	177.5°	699.5
32.6	32.6	32.6	32.6	32.6	33.6	36.8	41.5	42.1	41.5	40.0	180°	700.0
30.5	30.5	30.5	30.5	31.0	31.5	34.7	38.9	38.9	37.9	37.9		
28.9	28.4	28.4	28.4	28.4	28.9	32.1	36.3	35.8	35.2	35.2		
25.8	25.8	25.8	25.8	25.8	25.8	28.9	33.1	32.6	32.1	31.5		
22.6	22.6	23.1	22.6	22.1	21.6	24.7	29.4	29.4	28.9	28.4		
19.5	18.9	19.5	18.9	17.9	17.9	20.5	24.7	25.2	24.7	23.7		
15.8	15.2	15.2	15.2	13.1	13.1	15.8	20.0	20.0	19.5	18.4		
12.1	11.6	11.0	10.5	8.9	8.9	11.0	14.7	15.2	13.1	12.6		
6.3	6.3	6.3	4.7	4.2	3.7	5.8	8.9	8.9	7.4	6.3		
7.5	7.0	6.0	5.0	5.0	5.0	6.0	7.5	7.5	8.0	8.0		
5.5	5.0	4.5	4.0	4.0	4.0	4.5	5.0	5.5	6.0	6.0		
6.5	6.0	5.5	5.0	5.0	5.0	5.5	6.0	6.5	7.0	7.0		
8.0	8.0	7.5	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.5		
9.5	9.0	8.5	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0		
15.5	13.0	12.0	11.0	11.0	11.0	12.0	13.0	15.5	18.0	22.5		
31.5	27.0	24.5	22.0	21.0	22.0	24.5	27.0	31.5	36.0	42.0		
53.5	49.0	45.5	42.0	41.0	42.0	45.5	49.0	53.5	58.0	65.5		

'227344
 IST-AF-600-LED-E1-SLR-7030-ULG

REPORT NUMBER: P227344
 CATALOG NUMBER: IST-AF-600

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
74.0	71.0	68.0	66.0	68.0	71.0	74.0	80.5	87.0	94.5	0°	1032.0	1032.0
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	965.8	970.5
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	780.2	798.6
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	589.9	614.6
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	472.6	489.5
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	414.8	439.0
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	355.9	382.2
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	291.8	323.9
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	222.9	254.5
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	156.7	183.5
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	114.1	126.2
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	101.5	106.2
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	95.2	98.3
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	85.7	88.9
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	75.2	79.4
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	69.9	73.1
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	66.8	67.3
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	64.1	64.1
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	62.6	64.1
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	63.6	70.5
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	71.5	69.4
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	73.1	65.2
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	66.8	62.6
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	59.9	54.7
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	53.6	50.5
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	49.9	48.9
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	45.7	46.8
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	42.6	44.7
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	41.0	42.6
										70°	38.4	39.4
										72.5°	35.8	36.3
										75°	32.1	32.6
										77.5°	28.4	28.4
										80°	23.1	23.1
										82.5°	17.9	17.3
										85°	11.6	11.0
										87.5°	5.3	4.2
										90°	8.0	7.5
										92.5°	6.0	6.0
										95°	7.0	7.0
										97.5°	9.0	9.0
										100°	12.0	16.5
										102.5°	27.0	33.5
										105°	48.0	55.5
										107.5°	73.0	80.5



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CATALOG NUMBER: IST-AF-600-LED-E1-S

0-LED-E1-SLR-7030-ULG

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	110°	102.0	108.0	114.0
994.2	1008.9	1020.5	1018.4	1043.1	1057.8	1059.9	1075.2	1089.9	112.5°	134.0	138.5	143.0
813.3	833.8	853.8	868.5	907.4	939.5	964.2	990.5	1021.5	115°	168.0	171.0	174.0
648.3	665.6	698.2	721.9	762.9	800.2	836.5	878.0	913.2	117.5°	202.0	203.5	205.0
507.9	530.0	560.4	604.6	641.4	684.0	729.7	769.2	828.1	120°	237.0	240.0	243.0
456.4	470.0	495.3	516.3	562.0	607.2	658.8	712.9	767.1	122.5°	271.0	274.0	277.0
403.3	427.4	451.1	481.6	521.5	571.0	626.7	685.1	746.0	125°	305.0	307.5	310.0
351.7	383.8	409.6	442.7	487.4	549.9	622.5	695.0	766.5	127.5°	339.0	339.5	340.0
288.6	318.6	363.8	397.5	455.8	534.2	627.2	727.6	824.4	130°	370.0	371.0	372.0
227.1	259.2	310.7	360.7	424.8	525.8	646.1	781.3	910.6	132.5°	404.0	404.5	405.0
162.5	206.1	257.1	320.2	398.0	520.5	671.9	847.5	1021.5	135°	435.0	436.0	437.0
121.4	151.9	214.0	282.9	368.0	511.0	699.2	909.0	1097.2	137.5°	464.0	466.0	468.0
108.3	129.9	170.3	242.9	331.2	492.6	719.8	967.4	1166.1	140°	491.0	494.0	497.0
94.6	111.5	143.5	205.0	298.1	464.2	728.7	998.4	1214.0	142.5°	521.0	523.0	525.0
83.1	98.8	131.4	190.3	281.3	432.2	727.1	1029.4	1273.9	145°	550.0	550.5	551.0
75.7	89.4	126.2	186.6	268.1	402.7	728.7	1079.4	1362.7	147.5°	574.0	574.5	575.0
69.9	85.7	122.0	178.8	261.8	386.4	735.0	1123.5	1439.0	150°	593.0	593.0	593.0
69.9	84.6	111.5	167.7	258.7	388.0	737.6	1157.7	1495.8	152.5°	610.0	610.0	610.0
73.6	79.4	103.6	161.4	260.8	399.6	734.5	1192.4	1551.0	155°	630.0	629.0	628.0
69.9	74.1	98.3	160.4	260.8	408.0	743.9	1235.5	1623.5	157.5°	646.0	645.5	645.0
66.2	68.9	96.7	158.8	255.5	415.9	782.8	1316.0	1718.2	160°	655.0	655.0	655.0
61.5	64.7	94.6	156.1	249.7	425.9	851.7	1451.1	1874.8	162.5°	661.0	662.0	663.0
55.7	62.0	91.5	151.9	246.1	443.7	922.2	1587.8	2061.5	165°	673.0	673.0	673.0
53.6	59.4	84.1	142.0	242.4	463.2	997.3	1718.7	2229.2	167.5°	688.0	686.5	685.0
52.0	57.3	77.8	134.6	239.2	472.6	1020.0	1768.6	2293.8	170°	693.0	692.0	691.0
51.0	56.3	74.1	128.3	235.5	473.2	1036.3	1787.6	2303.3	172.5°	690.0	690.0	690.0
49.4	54.2	66.8	115.1	224.0	472.6	1037.8	1799.6	2276.0	175°	691.0	690.5	690.0
46.8	52.0	67.3	108.3	202.9	450.6	972.6	1741.3	2167.1	177.5°	697.0	696.0	695.0
44.7	50.5	71.0	109.9	180.9	393.8	850.7	1559.9	1934.2	180°	700.0	700.0	700.0
41.5	49.4	74.1	113.6	174.5	327.0	643.5	1273.9	1619.8				
38.4	48.9	76.8	116.2	167.7	269.2	445.8	903.2	1212.4				
34.7	44.7	69.9	98.8	138.8	195.6	287.1	590.9	835.9				
30.0	35.8	51.0	69.4	102.0	136.7	169.8	357.0	546.8				
24.7	26.8	36.3	44.7	67.8	81.0	94.1	201.4	382.2				
18.4	18.9	24.7	28.4	38.4	44.7	56.3	123.6	309.7				
10.5	12.1	16.8	18.9	23.1	28.4	36.8	78.9	242.9				
4.2	5.3	10.0	11.0	12.6	15.8	20.5	45.7	75.7				
7.0	7.0	7.0	8.0	9.0	9.0	9.0	8.0	7.0				
6.0	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0				
7.0	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0				
9.0	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0				
21.0	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0				
40.0	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0				
63.0	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0				
88.0	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0				



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CATALOG NUMBER: IST-AF-600-LED-E1-SLR-7030-L

SLR-7030-ULG

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	0°	1032.0	1032.0	1032.0	1032.0
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	1104.6	1115.6	1125.1	1132.5
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	1054.7	1080.4	1111.4	1137.7
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	965.8	998.4	1048.9	1079.9
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	881.7	929.5	984.7	1029.4
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	824.4	883.8	936.4	986.3
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	808.6	869.1	916.4	962.1
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	840.1	900.6	941.1	969.0
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	914.3	978.9	1004.7	1002.6
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	1015.7	1083.6	1083.6	1062.5
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	1149.8	1198.7	1171.9	1131.9
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	1245.0	1290.7	1243.9	1178.2
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	1323.8	1357.5	1298.1	1218.7
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	1393.2	1417.9	1339.6	1261.3
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	1476.3	1485.2	1382.7	1299.1
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	1568.3	1575.7	1444.8	1340.7
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	1676.6	1650.3	1490.5	1379.0
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	1743.4	1700.3	1523.6	1399.0
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	1796.0	1737.1	1538.9	1410.6
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	1860.6	1791.2	1565.7	1431.6
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	1945.8	1866.4	1633.5	1491.0
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	2120.4	2022.0	1755.5	1594.6
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	2321.2	2228.1	1950.5	1765.5
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	2482.1	2419.5	2124.6	1920.0
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	2541.5	2514.7	2247.6	2051.0
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	2563.6	2586.7	2312.8	2130.9
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	2578.8	2679.2	2524.7	2369.6
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	2547.3	2694.5	2610.4	2515.2
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	2410.0	2586.2	2569.9	2486.3
								70°	2129.3	2325.4	2382.2	2263.4
								72.5°	1602.0	1845.4	2155.1	1968.9
								75°	1043.6	1268.6	1840.1	1686.6
								77.5°	653.5	791.8	1312.8	1181.4
								80°	434.8	508.9	833.3	758.7
								82.5°	327.0	360.7	573.1	538.9
								85°	172.4	219.8	445.8	565.2
								87.5°	64.7	72.0	335.4	505.2
								90°	7.0	7.0	8.5	9.0
								92.5°	6.0	6.0	6.0	6.0
								95°	7.0	7.0	7.0	7.0
								97.5°	8.0	8.0	8.5	9.0
								100°	19.0	19.0	21.0	23.0
								102.5°	38.0	39.0	40.5	42.0
								105°	61.0	61.0	63.0	65.0
								107.5°	86.0	87.0	88.5	90.0

REPORT NUMBER: P227344

CATALOG NUMBER: IST-AF-600-LED-E1-SLR-7030-ULG

JLG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	110°	117.0	116.0	117.5	119.0	120.0
1138.8	1148.2	1154.0	1149.8	1156.7	1158.2	1150.9	112.5°	147.0	147.0	148.0	149.0	149.5
1159.8	1186.1	1205.0	1218.2	1223.4	1228.2	1226.0	115°	178.0	177.0	178.0	179.0	180.5
1120.9	1161.4	1196.6	1220.8	1229.2	1235.5	1229.7	117.5°	209.0	208.0	209.0	210.0	212.5
1077.8	1119.8	1153.0	1177.2	1176.6	1182.9	1171.9	120°	243.0	243.0	244.0	245.0	247.5
1037.3	1078.3	1107.8	1106.7	1099.3	1080.9	1077.8	122.5°	277.0	276.0	277.0	278.0	280.5
1005.2	1026.8	1034.2	1032.6	1011.5	1001.0	999.5	125°	310.0	310.0	310.0	310.0	312.5
989.5	988.4	971.6	953.2	933.2	932.2	918.5	127.5°	347.0	345.0	345.5	346.0	346.0
992.1	957.9	926.9	895.4	873.8	869.1	870.6	130°	380.0	379.0	380.0	381.0	381.0
1025.2	964.8	906.4	874.3	849.1	841.7	844.9	132.5°	415.0	414.0	414.0	414.0	415.0
1066.7	985.8	913.2	864.3	843.8	834.9	836.5	135°	451.0	450.0	448.5	447.0	447.5
1094.6	1010.0	935.8	875.4	847.5	839.1	844.4	137.5°	482.0	481.0	478.5	476.0	475.5
1130.4	1043.1	966.3	903.8	862.2	851.2	854.9	140°	511.0	509.0	506.5	504.0	503.0
1165.6	1078.8	1009.4	938.5	888.0	867.5	873.3	142.5°	536.0	534.0	533.5	533.0	533.0
1203.4	1120.4	1050.4	985.8	926.4	894.3	901.7	145°	560.0	558.0	559.5	561.0	561.5
1247.6	1168.7	1108.8	1049.4	988.4	961.6	964.8	147.5°	585.0	583.0	584.5	586.0	585.5
1290.2	1216.1	1177.7	1133.5	1097.8	1056.8	1056.8	150°	610.0	606.0	604.5	603.0	601.5
1315.4	1277.6	1267.1	1254.4	1233.4	1204.0	1197.7	152.5°	628.0	623.0	620.5	618.0	616.0
1346.4	1350.7	1374.8	1400.1	1406.4	1377.5	1368.5	155°	641.0	638.0	637.0	636.0	633.5
1404.8	1449.0	1528.4	1597.2	1610.9	1634.6	1607.2	157.5°	655.0	650.0	650.0	650.0	649.0
1486.8	1568.3	1702.4	1814.9	1847.0	1849.1	1851.2	160°	666.0	660.0	660.5	661.0	662.5
1580.4	1697.1	1874.3	2008.4	2065.7	2080.9	2069.9	162.5°	674.0	668.0	669.0	670.0	670.5
1740.8	1846.4	2040.4	2185.0	2258.6	2294.4	2284.9	165°	682.0	678.0	679.0	680.0	678.5
1899.5	2031.0	2201.8	2344.3	2422.7	2462.6	2471.0	167.5°	694.0	688.0	688.0	688.0	686.0
2007.8	2130.9	2288.6	2420.0	2497.3	2545.2	2549.4	170°	701.0	696.0	695.0	694.0	691.5
2074.1	2186.6	2340.6	2456.3	2533.6	2574.1	2588.8	172.5°	701.0	696.0	695.0	694.0	693.0
2274.9	2295.4	2400.6	2476.8	2531.0	2549.4	2560.4	175°	699.0	694.0	695.0	696.0	695.5
2369.0	2283.3	2271.2	2318.6	2323.3	2311.2	2296.0	177.5°	702.0	698.0	699.5	701.0	700.0
2238.1	2037.8	1963.7	1957.4	1937.9	1930.0	1881.7	180°	700.0	700.0	700.0	700.0	700.0
1943.7	1655.1	1524.1	1453.2	1496.3	1494.7	1445.3						
1637.7	1343.8	1174.0	1072.0	1059.4	1057.3	1014.2						
1330.1	1054.7	905.9	856.4	797.0	779.2	786.5						
959.0	752.9	721.3	759.2	763.9	750.2	740.8						
604.1	566.2	596.7	665.6	706.1	688.2	695.0						
503.7	445.8	447.9	520.5	547.8	552.0	537.8						
558.9	446.4	365.9	357.0	347.5	218.7	304.4						
503.7	345.4	203.5	167.7	103.0	59.4	61.5						
9.0	9.0	8.0	7.0	7.0	7.0	7.5						
6.5	7.0	7.0	7.0	6.5	6.0	6.0						
7.5	8.0	7.5	7.0	7.0	7.0	7.0						
9.5	10.0	11.0	12.0	10.5	9.0	9.0						
24.5	26.0	27.5	29.0	25.0	21.0	16.5						
44.5	47.0	48.5	50.0	45.0	40.0	33.5						
67.5	70.0	71.0	72.0	67.5	63.0	55.5						
92.0	94.0	94.5	95.0	91.5	88.0	80.5						



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CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
121.0	120.5	120.0	117.0	114.0	108.0	0°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	1149.3	1139.3	1128.3	1113.5	1116.2	1098.3
182.0	180.5	179.0	176.5	174.0	171.0	5°	1209.8	1192.4	1168.7	1138.8	1110.9	1075.2
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	1203.4	1175.6	1136.1	1090.9	1054.1	1002.6
250.0	248.0	246.0	244.5	243.0	240.0	10°	1149.3	1113.0	1080.9	1034.2	986.3	941.1
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	1073.6	1053.1	1025.2	990.0	943.7	897.5
315.0	314.0	313.0	311.5	310.0	307.5	15°	991.0	992.6	975.8	966.3	943.2	906.4
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	923.2	939.0	947.9	962.6	965.3	947.4
381.0	379.0	377.0	374.5	372.0	371.0	20°	878.0	900.1	927.9	968.4	1011.0	1029.4
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	852.8	880.1	924.8	998.4	1076.2	1123.0
448.0	445.5	443.0	440.0	437.0	436.0	25°	848.0	884.3	946.9	1036.8	1137.7	1203.4
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	855.9	903.2	977.4	1079.9	1179.3	1274.4
502.0	501.0	500.0	498.5	497.0	494.0	30°	881.2	936.4	1017.3	1127.7	1230.8	1325.4
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	905.3	973.7	1063.1	1170.8	1274.4	1368.5
562.0	559.0	556.0	553.5	551.0	550.5	35°	944.2	1013.1	1104.6	1204.0	1304.4	1411.1
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	1003.7	1064.1	1137.2	1229.7	1334.4	1444.8
600.0	598.5	597.0	595.0	593.0	593.0	40°	1088.3	1128.3	1175.6	1248.7	1349.1	1467.4
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	1215.0	1223.4	1239.7	1277.6	1362.2	1493.7
631.0	628.5	626.0	627.0	628.0	629.0	45°	1378.5	1353.3	1339.1	1333.8	1391.7	1510.5
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	1568.3	1518.9	1462.1	1434.8	1448.4	1537.3
664.0	661.0	658.0	656.5	655.0	655.0	50°	1815.4	1735.0	1623.5	1544.7	1537.8	1616.2
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	2042.0	1936.9	1796.5	1703.4	1665.6	1763.4
677.0	674.5	672.0	672.5	673.0	673.0	55°	2256.0	2175.0	2016.3	1900.6	1887.4	1958.4
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	2443.7	2373.8	2243.9	2093.0	2098.3	2167.1
689.0	687.5	686.0	688.5	691.0	692.0	59°	2541.0	2482.6	2362.2	2208.7	2220.2	2314.9
692.0	690.5	689.0	689.5	690.0	690.0	60°	2575.7	2526.8	2412.1	2282.8	2297.5	2395.8
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	2573.0	2541.5	2458.4	2397.4	2472.6	2544.6
699.0	696.5	694.0	694.5	695.0	696.0	65°	2327.5	2279.7	2270.2	2376.9	2522.0	2591.4
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	1851.2	1873.8	1963.7	2147.2	2390.6	2491.5
						70°	1374.8	1414.8	1534.7	1764.9	2099.3	2273.9
						72.5°	1011.0	1051.0	1161.4	1413.7	1727.1	1881.7
						75°	793.4	805.4	884.8	1083.0	1361.2	1487.9
						77.5°	732.9	696.6	664.0	770.2	918.0	1026.8
						80°	682.4	613.6	536.8	568.9	604.6	720.3
						82.5°	530.0	484.2	424.3	465.3	482.1	485.8
						85°	310.2	276.0	349.6	495.3	490.0	429.0
						87.5°	109.4	142.0	159.8	274.4	331.7	287.1
						90°	8.0	9.6	12.7	12.8	14.9	8.6
						92.5°	6.0	6.0	6.0	5.5	5.0	4.5
						95°	7.0	7.0	7.0	6.5	6.0	5.5
						97.5°	9.0	8.5	8.0	8.0	8.0	7.5
						100°	12.0	11.0	10.0	9.5	9.0	8.5
						102.5°	27.0	22.5	18.0	15.5	13.0	12.0
						105°	48.0	42.0	36.0	31.5	27.0	24.5
						107.5°	73.0	65.5	58.0	53.5	49.0	45.5



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CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
1032.0	1032.0	1032.0	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
1084.1	1069.4	1068.3	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
1046.8	1013.6	1003.1	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
957.9	919.5	911.7	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
883.3	840.7	833.3	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
844.9	804.4	795.5	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
859.6	814.9	810.2	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
914.8	867.5	869.6	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
1009.4	978.9	971.6	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
1133.5	1100.4	1090.9	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
1239.2	1222.4	1216.1	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
1315.4	1323.3	1317.0	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
1376.4	1402.7	1399.5	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
1439.0	1490.0	1492.1	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
1485.2	1575.1	1593.5	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
1544.7	1665.1	1684.0	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
1589.9	1731.3	1754.4	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
1634.0	1786.0	1811.2	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
1670.3	1840.1	1865.9	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
1711.3	1892.7	1917.9	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
1784.9	1975.2	2005.2	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
1943.2	2128.2	2170.8	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
2171.9	2339.6	2373.2	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
2378.0	2483.1	2492.1	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
2462.6	2522.5	2519.9	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
2524.7	2532.0	2517.3	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
2558.3	2488.4	2463.1	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
2470.5	2373.2	2340.1	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
2217.1	2165.6	2127.7	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
1885.9	1755.5	1730.8								
1429.5	1257.6	1220.8								
998.9	792.8	742.9								
656.7	508.9	490.0								
425.9	338.1	332.3								
297.0	221.9	204.5								
182.4	74.1	71.0								
56.8	34.2	30.5								
6.6	7.1	7.1								
4.0	4.0	4.0								
5.0	5.0	5.0								
7.0	7.0	7.0								
8.0	8.0	8.0								
11.0	11.0	11.0								
22.0	21.2	21.0								
42.0	41.2	41.0								



359°	360°
66.4	66.0
99.0	99.0
139.8	140.0
184.0	184.0
224.6	225.0
262.4	263.0
297.2	298.0
329.8	330.0
362.6	363.0
395.6	396.0
428.4	429.0
459.4	460.0
487.4	488.0
517.4	518.0
549.2	550.0
574.4	575.0
594.4	595.0
610.4	611.0
628.2	629.0
645.4	646.0
662.4	663.0
672.2	673.0
680.4	681.0
689.4	690.0
697.4	698.0
698.6	699.0
699.6	700.0
706.6	707.0
700.0	700.0

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