

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: P227289

Luminaire Tested: **ISW-AF-350-LED-E1-SLR-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227289
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: ISW-AF-350-LED-E1-SLR-7030-ULG
Description: IMPACT ELITE LED WEDGE 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: 3643.4 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U5 - G1

Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

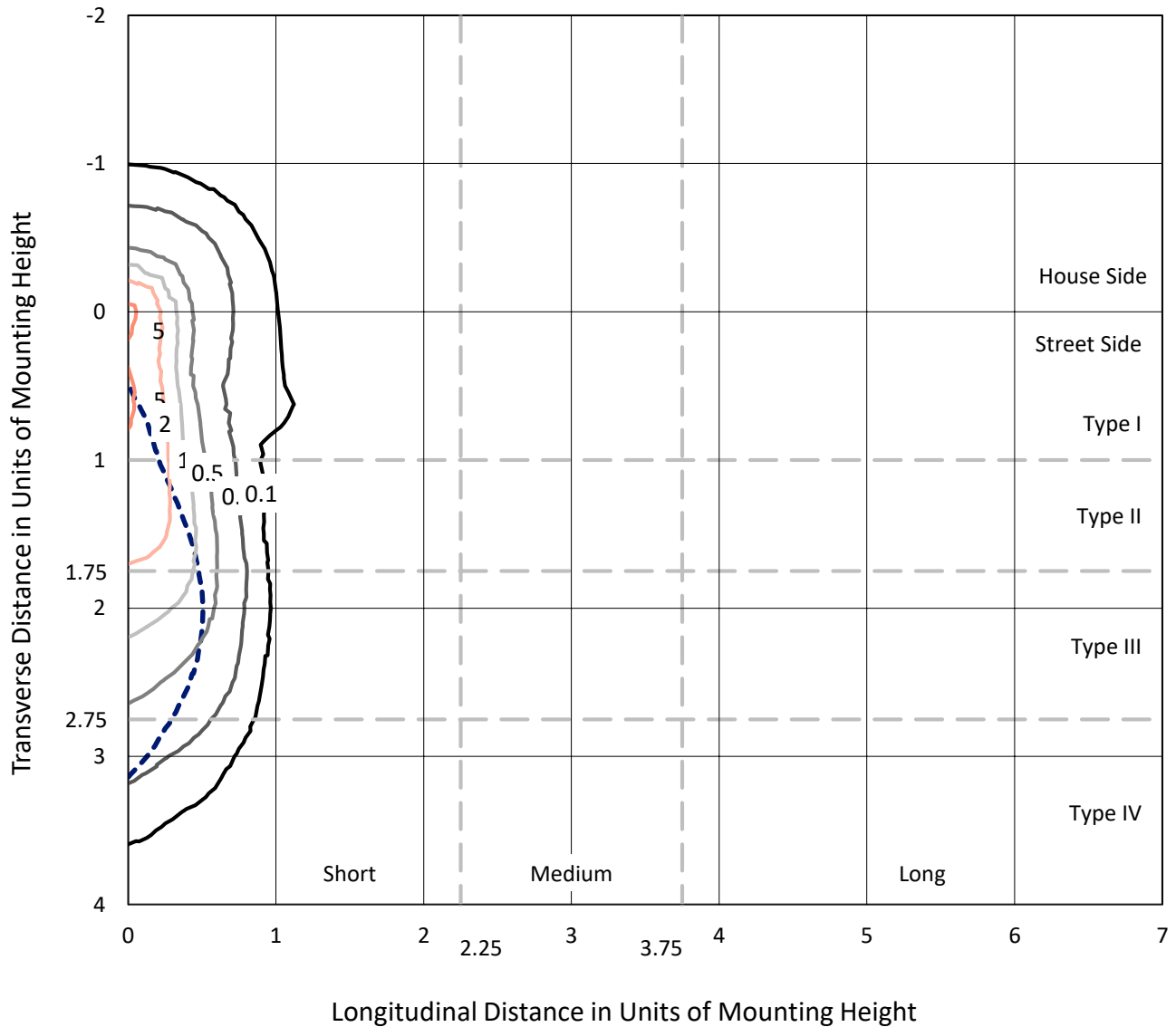


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Iso-Footcandle Lines of Horizontal Illumination

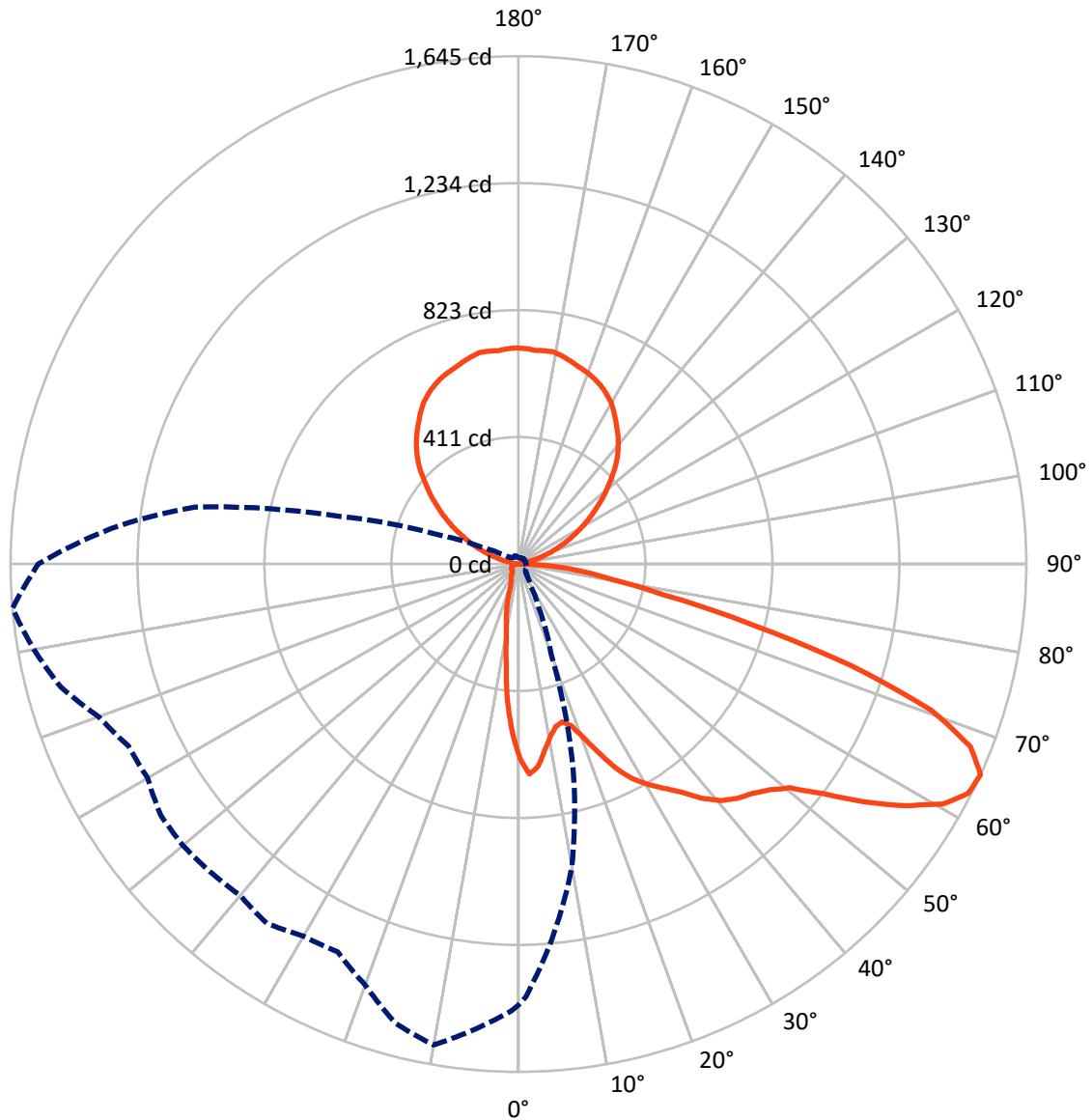
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 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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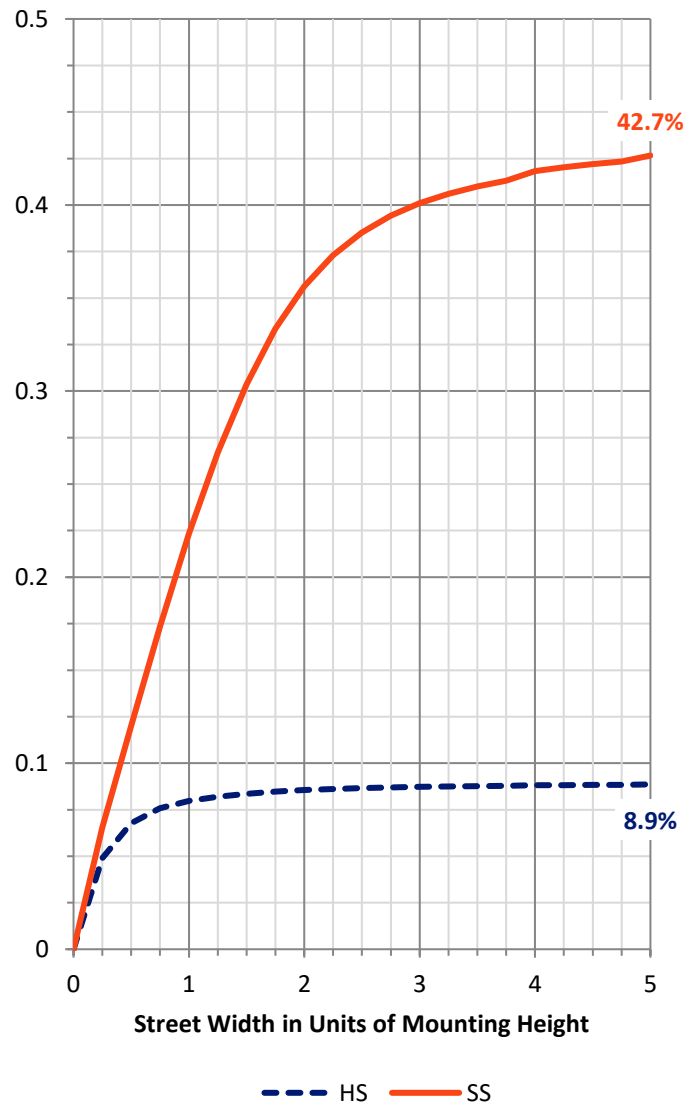
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	327.7	867.6	1195.2
	% Fixture	9.0	23.8	32.8
Street Side	Lumens	1580.5	867.6	2448.1
	% Fixture	43.4	23.8	67.2
Total	Lumens	1908.2	1735.2	3643.4
	% Fixture	52.4	47.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	1.3
10°-20°	89.8	2.5
20°-30°	128.1	3.5
30°-40°	185.8	5.1
40°-50°	265.8	7.3
50°-60°	408.1	11.2
60°-70°	472.4	13.0
70°-80°	241.0	6.6
80°-90°	70.6	1.9
90°-100°	9.3	0.3
100°-110°	57.4	1.6
110°-120°	166.1	4.6
120°-130°	273.2	7.5
130°-140°	336.8	9.2
140°-150°	344.6	9.5
150°-160°	290.3	8.0
160°-170°	191.2	5.2
170°-180°	66.3	1.8
0°-90°	1908.2	52.4
0°-180°	3643.4	100.0



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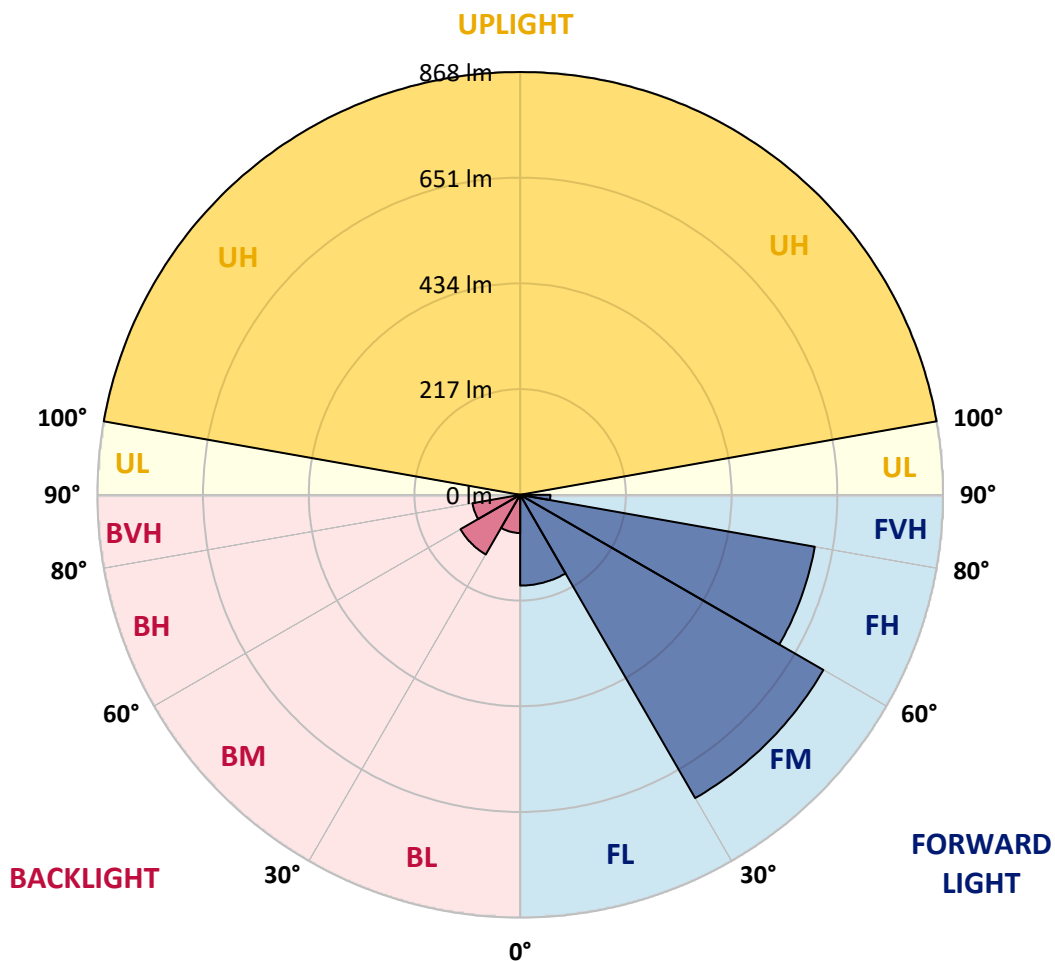
CATALOG NUMBER: ISW-AF-350-LED-E1-SLR-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	186.3	5.1			
FM	(30°-60°)	718.4	19.7			
FH	(60°-80°)	613.8	16.8			G0/660
FVH	(80°-90°)	62.0	1.7			G1/100
BL	(0°-30°)	78.3	2.1	B0/110		
BM	(30°-60°)	141.3	3.9	B0/220		
BH	(60°-80°)	99.5	2.7	B0/110		G0/110
BVH	(80°-90°)	8.6	0.2			G0/10
UL	(90°-100°)	9.3	0.3		U1/10	
UH	(100°-180°)	867.6	23.8		U4/1000	

BUG Rating: B0-U5-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1
2.5°	652.2	648.4	643.5	635.2	627.8	617.2	614.7	601.5	593.2	595.1	580.0
5°	612.4	610.2	598.3	579.7	567.5	543.4	529.6	522.5	502.6	500.1	494.6
7.5°	556.6	549.8	530.6	507.5	486.6	468.9	446.8	429.8	414.7	405.4	389.0
10°	508.7	501.7	480.8	452.6	427.5	402.8	384.8	362.7	341.2	324.5	311.3
12.5°	485.6	477.9	453.5	420.8	392.9	362.1	336.7	314.9	303.0	294.7	283.7
15°	494.6	483.4	454.2	415.0	380.4	347.6	320.6	297.2	283.1	270.3	257.4
17.5°	530.9	517.1	483.7	436.5	388.4	346.0	307.5	280.8	258.4	239.1	221.8
20°	593.2	582.9	534.4	468.3	405.7	347.0	296.3	261.3	234.0	209.6	186.5
22.5°	666.0	650.6	603.1	511.3	427.9	352.7	289.2	244.9	212.5	179.7	154.7
25°	742.4	730.5	667.6	569.1	461.9	364.6	283.7	230.5	187.1	150.9	123.3
27.5°	804.0	793.4	731.2	624.6	493.0	374.9	275.7	216.7	166.9	123.3	92.8
30°	854.4	845.4	780.3	670.2	530.9	378.4	264.5	200.6	144.4	99.5	76.7
32.5°	910.9	901.0	827.5	702.0	547.9	375.2	251.6	185.5	126.5	87.9	65.8
35°	972.9	961.3	880.1	736.3	562.0	364.0	240.7	174.6	117.8	79.9	58.4
37.5°	1028.1	1020.7	927.6	770.3	578.1	345.4	230.1	162.7	112.0	74.1	52.6
40°	1071.1	1069.2	980.2	798.6	590.6	331.9	221.5	153.4	104.6	71.9	50.7
42.5°	1105.7	1105.1	1023.3	823.9	593.8	320.0	214.7	145.1	97.9	66.4	51.7
45°	1139.1	1138.8	1065.0	859.2	596.0	320.6	209.6	139.9	92.1	62.9	48.8
47.5°	1170.9	1175.7	1108.6	908.3	619.8	331.6	207.7	135.1	87.6	59.1	46.2
50°	1224.2	1219.4	1177.6	974.8	658.0	352.7	204.5	131.0	83.5	55.5	43.7
52.5°	1325.3	1319.8	1282.6	1063.7	699.7	374.6	200.3	125.2	78.6	51.7	40.8
55°	1448.9	1456.2	1404.6	1171.9	756.5	392.9	195.8	117.5	72.2	47.2	38.8
57.5°	1521.4	1515.3	1456.2	1234.1	791.5	402.2	192.9	108.5	62.3	43.3	36.9
59°	1538.4	1528.1	1447.6	1244.7	800.8	397.7	191.3	99.8	57.1	41.4	35.9
60°	1536.8	1524.3	1433.8	1238.0	803.4	392.2	188.7	94.7	54.2	40.4	35.6
62.5°	1503.7	1484.2	1355.5	1156.5	767.4	364.9	178.1	82.5	50.4	39.2	33.7
65°	1428.6	1401.0	1223.9	997.3	685.0	310.7	154.1	78.0	51.4	38.5	32.4
67.5°	1299.0	1276.8	1054.7	825.2	546.0	251.0	133.2	76.1	52.6	39.2	30.5
70°	1056.6	1037.7	823.0	617.9	408.9	199.6	121.0	75.1	51.7	37.6	28.9
72.5°	745.3	712.6	546.9	432.7	259.3	160.5	105.0	70.9	50.4	36.3	26.3
75°	453.5	459.6	347.6	315.2	163.7	110.1	82.5	59.7	44.6	32.4	23.8
77.5°	299.1	298.8	256.5	222.4	83.1	68.4	58.4	45.9	35.0	26.6	20.5
80°	202.9	205.1	186.2	151.8	46.2	41.1	38.2	33.4	25.7	20.2	17.0
82.5°	124.9	125.2	144.1	113.6	30.8	26.0	24.4	22.5	18.3	15.7	13.2
85°	43.3	44.3	50.4	80.2	20.9	17.0	17.0	15.7	13.8	10.6	8.7
87.5°	18.6	18.3	21.8	21.8	10.3	8.7	8.0	8.0	7.7	5.8	4.8
90°	6.3	6.0	6.0	7.3	8.6	9.7	9.9	10.2	10.2	9.4	8.3
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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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°	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1
2.5°	575.5	572.0	562.0	559.5	562.7	556.2	554.6	553.0	541.2	547.3	540.2
5°	481.1	480.2	460.0	464.1	460.0	452.9	450.0	456.7	444.9	447.4	449.0
7.5°	369.8	365.9	352.4	343.4	338.0	333.2	327.1	317.1	324.8	323.2	335.4
10°	300.1	291.8	283.4	270.9	263.8	257.1	250.0	246.2	237.2	236.2	232.1
12.5°	275.1	263.2	252.6	241.7	234.3	220.8	209.6	202.5	196.8	187.8	181.0
15°	241.7	231.7	217.9	207.3	195.8	183.6	172.7	163.7	159.5	151.2	147.3
17.5°	208.0	192.9	176.2	165.6	149.6	137.1	128.1	122.3	116.2	111.1	106.6
20°	167.5	148.0	130.0	116.5	104.0	91.8	87.6	80.6	78.0	76.1	77.7
22.5°	127.4	107.2	88.6	78.3	71.6	68.4	64.8	63.6	62.6	62.3	62.9
25°	93.4	76.4	67.4	63.6	61.0	59.1	57.8	56.8	56.2	55.8	56.2
27.5°	72.2	63.2	58.7	56.2	54.2	53.0	52.3	51.4	51.0	50.7	51.0
30°	62.6	57.8	54.6	52.0	49.8	47.5	46.5	46.2	46.5	46.9	46.5
32.5°	54.6	51.0	47.5	45.3	43.7	42.4	42.4	41.7	41.7	42.7	43.0
35°	49.4	45.9	43.3	40.4	38.5	37.2	36.3	35.6	35.9	35.9	36.9
37.5°	45.3	42.7	40.4	37.9	35.9	34.7	34.0	33.4	33.1	32.7	32.7
40°	42.4	40.8	38.8	36.3	34.3	33.1	32.4	31.8	31.5	31.1	31.1
42.5°	42.4	39.2	37.9	35.6	33.4	32.1	31.1	30.5	29.9	29.9	29.9
45°	46.5	40.1	37.9	35.3	33.1	31.5	30.5	29.5	28.9	28.9	28.6
47.5°	45.3	44.9	38.5	35.3	33.4	31.5	30.2	29.2	28.6	28.2	27.9
50°	43.0	46.9	43.0	36.3	33.4	31.1	29.9	28.9	27.9	27.6	27.6
52.5°	41.7	43.7	44.6	37.6	33.7	31.1	29.5	28.6	27.9	27.3	27.0
55°	38.5	41.1	42.7	36.9	33.7	30.5	28.9	27.9	27.0	26.6	26.3
57.5°	35.3	37.2	41.1	36.9	32.7	30.2	28.2	27.0	26.3	26.0	25.7
59°	34.3	34.3	36.6	37.9	32.1	29.9	27.9	26.6	26.0	25.7	25.0
60°	33.4	33.4	34.7	38.8	31.8	29.5	27.6	26.3	25.4	25.4	25.0
62.5°	32.1	31.1	31.8	36.3	30.8	28.9	27.0	25.7	24.7	24.7	24.4
65°	30.5	29.2	29.2	30.2	28.9	27.6	26.3	25.0	23.8	23.8	24.1
67.5°	28.9	27.6	27.3	27.3	26.6	26.3	25.0	23.8	23.1	23.1	23.1
70°	26.6	25.7	25.4	24.7	24.7	24.4	23.4	22.5	21.8	22.1	21.8
72.5°	24.1	23.4	22.8	22.8	22.5	22.1	21.2	20.5	20.2	20.5	20.5
75°	21.5	20.5	20.5	19.9	19.9	19.6	18.6	18.3	18.0	18.3	18.6
77.5°	18.3	17.7	17.3	17.3	17.3	17.3	16.0	15.7	15.7	16.4	16.4
80°	15.1	14.8	14.4	14.4	14.4	14.1	13.5	13.2	13.2	13.5	13.8
82.5°	11.6	10.9	10.9	11.2	11.6	11.6	10.6	10.0	10.0	10.6	11.2
85°	7.7	7.7	7.7	8.0	8.0	8.3	7.7	6.7	7.1	7.4	8.3
87.5°	4.2	4.5	4.2	3.9	4.5	4.2	4.2	3.9	4.2	4.5	4.8
90°	8.3	8.3	9.0	9.6	9.3	9.6	8.6	8.0	7.3	7.3	8.6
92.5°	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0	8.0	8.0	8.5
100°	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0	19.0	19.0	21.0
102.5°	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0	38.0	39.0	40.5
105°	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0	61.0	61.0	63.0
107.5°	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0	86.0	87.0	88.5



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CATALOG NUMBER: ISW-AF-350-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: P227289

CATALOG NUMBER: ISW-AF-350-LED-E1-SLR-7030-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1
2.5°	546.6	541.2	538.3	549.5	548.5	538.9	538.9	545.7	546.0	540.2	546.9
5°	451.0	445.5	450.6	446.1	448.7	448.4	452.2	445.2	448.1	445.5	439.4
7.5°	334.5	345.4	351.1	343.8	353.1	357.9	351.1	357.9	347.3	338.6	347.0
10°	230.1	242.3	240.1	252.0	256.5	259.0	263.8	257.7	250.4	248.1	242.0
12.5°	178.5	175.9	174.9	179.7	182.6	178.5	182.0	178.1	174.3	167.5	167.2
15°	139.6	135.4	132.6	127.1	125.2	126.1	127.7	127.7	120.0	120.4	123.3
17.5°	105.9	105.0	102.7	98.2	95.3	96.3	96.0	94.4	93.4	94.0	97.6
20°	79.6	78.6	79.9	81.2	80.2	80.6	79.3	77.7	77.0	77.7	78.3
22.5°	62.9	64.2	65.8	67.7	68.0	69.7	69.3	69.7	68.4	67.7	66.1
25°	57.5	58.1	57.1	57.5	57.5	59.1	58.7	58.7	57.5	57.1	57.5
27.5°	50.7	50.4	50.4	51.0	51.0	52.0	52.6	52.0	50.7	50.4	50.7
30°	46.9	46.5	46.2	46.5	46.2	46.5	47.2	47.2	46.5	45.6	45.9
32.5°	43.0	43.0	42.7	43.0	42.7	42.7	43.3	42.4	42.4	42.0	42.0
35°	37.9	38.5	39.2	39.5	39.5	39.5	40.1	39.2	38.8	38.5	38.5
37.5°	32.7	33.4	35.3	36.3	36.6	37.2	37.6	36.9	36.3	35.6	35.0
40°	31.1	31.1	31.8	33.1	34.3	34.7	35.3	34.3	34.0	33.1	32.1
42.5°	29.9	30.2	30.2	30.5	30.8	31.5	32.4	31.5	30.8	30.2	29.2
45°	28.9	28.9	28.9	28.9	28.6	28.6	28.9	28.2	27.9	27.6	27.6
47.5°	28.2	27.9	27.6	27.3	27.0	26.6	26.6	26.0	26.0	26.0	26.0
50°	27.6	27.0	26.6	26.3	25.7	25.7	25.7	25.0	24.7	24.7	25.0
52.5°	26.6	26.3	26.0	25.7	25.4	25.0	25.0	24.4	24.1	24.1	24.1
55°	26.3	26.0	25.4	25.0	24.7	25.0	24.7	24.4	23.8	23.8	23.8
57.5°	25.4	25.7	25.4	24.7	24.7	24.7	24.7	24.1	23.8	23.1	23.4
59°	25.0	25.4	25.0	24.7	24.4	24.7	24.7	23.8	23.4	23.1	23.1
60°	24.7	25.0	24.7	24.4	24.4	24.7	24.4	24.1	23.4	22.5	22.8
62.5°	24.4	24.4	24.1	24.1	23.8	24.1	23.8	23.1	22.5	21.8	21.5
65°	23.8	23.8	23.4	23.4	23.1	23.1	23.1	22.5	21.8	21.2	21.2
67.5°	23.4	23.1	22.8	22.8	22.5	22.5	22.5	21.8	20.9	20.5	20.2
70°	22.1	21.8	21.8	21.5	21.2	21.5	21.8	20.9	19.9	19.3	18.9
72.5°	20.9	20.5	20.5	20.2	20.2	20.5	20.9	19.9	18.6	18.0	17.7
75°	18.9	18.6	18.6	18.6	18.6	19.3	19.3	18.3	17.3	16.4	15.7
77.5°	16.4	16.7	16.7	16.7	16.7	17.3	17.3	16.7	15.7	15.1	14.1
80°	14.1	14.1	14.4	14.4	14.8	14.8	14.4	14.1	13.8	13.2	11.9
82.5°	11.9	11.9	11.9	11.9	11.9	11.6	10.9	11.6	11.6	10.9	10.0
85°	9.3	9.3	9.3	9.6	9.6	8.7	7.7	7.7	8.7	8.3	7.7
87.5°	5.5	5.5	5.8	6.7	6.1	5.8	4.8	5.1	4.8	5.5	4.5
90°	10.3	10.0	10.0	8.3	7.6	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°



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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	110°	80.5
547.6	548.9	551.7	550.8	561.4	558.2	565.6	575.5	584.8	580.3	581.6	112.5°	113.5
450.3	451.9	439.7	447.1	458.0	453.5	451.9	466.7	463.2	479.9	466.0	115°	153.0
333.5	329.6	323.9	321.0	312.9	312.9	328.0	334.8	333.8	345.4	357.2	117.5°	193.0
234.3	229.8	222.8	220.8	228.9	232.7	239.4	246.2	255.2	268.3	276.0	120°	229.5
172.0	170.4	172.0	176.9	184.2	189.7	200.0	211.8	221.8	232.4	242.7	122.5°	264.0
130.0	133.2	137.4	140.6	146.4	156.6	162.1	175.3	184.2	193.5	205.4	125°	297.5
101.1	103.0	104.0	105.3	110.1	117.5	117.5	131.0	142.8	155.0	165.0	127.5°	331.0
77.0	77.0	73.8	75.7	76.4	75.7	79.6	87.3	95.0	103.0	118.8	130°	364.0
64.5	62.6	61.6	61.3	61.6	62.9	65.2	68.0	69.3	72.9	79.0	132.5°	397.0
57.1	56.8	55.8	55.8	56.5	56.8	59.1	61.6	62.3	63.2	65.5	135°	429.0
50.4	51.0	52.0	51.7	52.0	52.6	54.2	56.5	57.8	58.1	59.7	137.5°	459.5
45.6	46.2	46.5	47.5	47.5	47.8	49.1	51.4	52.3	53.9	55.5	140°	488.0
42.4	42.7	43.0	42.7	43.0	43.0	44.6	46.9	48.1	49.1	50.1	142.5°	517.5
38.8	38.5	38.5	38.5	37.6	37.2	37.9	40.1	40.4	41.4	43.7	145°	545.5
34.7	33.7	33.1	33.1	33.1	33.4	35.0	37.2	37.6	38.5	40.4	147.5°	572.5
30.8	30.5	30.5	30.8	31.1	31.8	33.1	35.3	35.6	36.6	38.2	150°	593.0
28.9	28.9	28.9	29.2	29.5	29.9	31.5	33.7	34.3	35.3	37.2	152.5°	608.5
27.6	27.9	27.6	27.6	27.9	28.6	30.2	32.7	33.7	34.7	36.6	155°	626.0
26.6	26.6	26.6	27.0	27.0	27.6	29.5	32.1	32.7	34.0	36.9	157.5°	643.5
25.4	26.0	25.7	26.0	26.3	27.0	28.9	31.5	32.4	34.3	37.6	160°	657.5
24.7	24.7	24.7	25.0	25.7	26.0	27.6	30.5	31.8	34.3	39.5	162.5°	667.0
24.4	23.8	23.8	24.1	24.7	25.4	27.0	29.9	31.5	34.0	39.2	165°	676.0
24.1	23.1	22.8	23.1	23.8	24.1	26.0	28.9	31.1	33.1	37.9	167.5°	685.0
23.1	22.5	22.1	22.5	23.1	23.8	25.4	28.2	29.9	32.4	36.3	170°	692.0
22.8	21.8	21.8	22.1	22.8	23.1	24.7	27.6	29.2	32.7	37.2	172.5°	694.0
21.5	21.2	21.2	21.5	21.5	22.1	24.1	27.0	28.2	33.4	31.1	175°	696.0
20.5	20.5	20.5	20.5	20.9	21.2	23.4	26.3	27.0	28.9	26.6	177.5°	699.5
19.9	19.9	19.9	19.9	19.9	20.5	22.5	25.4	25.7	25.4	24.4	180°	700.0
18.6	18.6	18.6	18.6	18.9	19.3	21.2	23.8	23.8	23.1	23.1		
17.7	17.3	17.3	17.3	17.3	17.7	19.6	22.1	21.8	21.5	21.5		
15.7	15.7	15.7	15.7	15.7	15.7	17.7	20.2	19.9	19.6	19.3		
13.8	13.8	14.1	13.8	13.5	13.2	15.1	18.0	18.0	17.7	17.3		
11.9	11.6	11.9	11.6	10.9	10.9	12.5	15.1	15.4	15.1	14.4		
9.6	9.3	9.3	9.3	8.0	8.0	9.6	12.2	12.2	11.9	11.2		
7.4	7.1	6.7	6.4	5.5	5.5	6.7	9.0	9.3	8.0	7.7		
3.9	3.9	3.9	2.9	2.6	2.2	3.5	5.5	5.5	4.5	3.9		
7.5	7.0	6.0	5.0	5.0	5.0	6.0	7.3	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		

'227289
 ISW-AF-350-LED-E1-SLR-7030-ULG

REPORT NUMBER: P227289
 CATALOG NUMBER: ISW-AF-3!

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°	630.1	630.1
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	589.6	592.5
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	476.3	487.6
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	360.1	375.2
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	288.6	298.8
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	253.2	268.0
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	217.3	233.3
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	178.1	197.7
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	136.1	155.3
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	95.6	112.0
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	69.7	77.0
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	61.9	64.8
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	58.1	60.0
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	52.3	54.2
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	45.9	48.5
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	42.7	44.6
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	40.8	41.1
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	39.2	39.2
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	38.2	39.2
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	38.8	43.0
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	43.7	42.4
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	44.6	39.8
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	40.8	38.2
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	36.6	33.4
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	32.7	30.8
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	30.5	29.9
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	27.9	28.6
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	26.0	27.3
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	25.0	26.0
										70°	23.4	24.1
										72.5°	21.8	22.1
										75°	19.6	19.9
										77.5°	17.3	17.3
										80°	14.1	14.1
										82.5°	10.9	10.6
										85°	7.1	6.7
										87.5°	3.2	2.6
										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: ISW-AF-350-LED-E1-

50-LED-E1-SLR-7030-ULG

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	110°	102.0	108.0	114.0
607.0	615.9	623.0	621.7	636.8	645.8	647.1	656.4	665.4	112.5°	134.0	138.5	143.0
496.5	509.1	521.3	530.2	554.0	573.6	588.7	604.7	623.6	115°	168.0	171.0	174.0
395.8	406.3	426.2	440.7	465.7	488.5	510.7	536.0	557.5	117.5°	202.0	203.5	205.0
310.1	323.5	342.2	369.1	391.6	417.6	445.5	469.6	505.5	120°	237.0	240.0	243.0
278.6	286.9	302.4	315.2	343.1	370.7	402.2	435.2	468.3	122.5°	271.0	274.0	277.0
246.2	260.9	275.4	294.0	318.4	348.6	382.6	418.2	455.5	125°	305.0	307.5	310.0
214.7	234.3	250.0	270.3	297.5	335.7	380.0	424.3	468.0	127.5°	339.0	339.5	340.0
176.2	194.5	222.1	242.7	278.3	326.1	382.9	444.2	503.3	130°	370.0	371.0	372.0
138.7	158.2	189.7	220.2	259.3	321.0	394.5	477.0	555.9	132.5°	404.0	404.5	405.0
99.2	125.8	157.0	195.5	243.0	317.8	410.2	517.4	623.6	135°	435.0	436.0	437.0
74.1	92.8	130.6	172.7	224.7	312.0	426.9	555.0	669.9	137.5°	464.0	466.0	468.0
66.1	79.3	104.0	148.3	202.2	300.7	439.4	590.6	711.9	140°	491.0	494.0	497.0
57.8	68.0	87.6	125.2	182.0	283.4	444.9	609.5	741.1	142.5°	521.0	523.0	525.0
50.7	60.3	80.2	116.2	171.7	263.8	443.9	628.5	777.7	145°	550.0	550.5	551.0
46.2	54.6	77.0	113.9	163.7	245.9	444.9	659.0	832.0	147.5°	574.0	574.5	575.0
42.7	52.3	74.5	109.1	159.8	235.9	448.7	685.9	878.5	150°	593.0	593.0	593.0
42.7	51.7	68.0	102.4	157.9	236.9	450.3	706.8	913.2	152.5°	610.0	610.0	610.0
44.9	48.5	63.2	98.5	159.2	243.9	448.4	728.0	946.9	155°	630.0	629.0	628.0
42.7	45.3	60.0	97.9	159.2	249.1	454.2	754.3	991.2	157.5°	646.0	645.5	645.0
40.4	42.0	59.1	96.9	156.0	253.9	477.9	803.4	1048.9	160°	655.0	655.0	655.0
37.6	39.5	57.8	95.3	152.5	260.0	520.0	885.9	1144.6	162.5°	661.0	662.0	663.0
34.0	37.9	55.8	92.8	150.2	270.9	563.0	969.3	1258.5	165°	673.0	673.0	673.0
32.7	36.3	51.4	86.7	148.0	282.8	608.9	1049.3	1360.9	167.5°	688.0	686.5	685.0
31.8	35.0	47.5	82.2	146.0	288.6	622.7	1079.7	1400.4	170°	693.0	692.0	691.0
31.1	34.3	45.3	78.3	143.8	288.9	632.6	1091.3	1406.2	172.5°	690.0	690.0	690.0
30.2	33.1	40.8	70.3	136.7	288.6	633.6	1098.7	1389.5	175°	691.0	690.5	690.0
28.6	31.8	41.1	66.1	123.9	275.1	593.8	1063.1	1323.0	177.5°	697.0	696.0	695.0
27.3	30.8	43.3	67.1	110.4	240.4	519.3	952.3	1180.9	180°	700.0	700.0	700.0
25.4	30.2	45.3	69.3	106.6	199.6	392.9	777.7	988.9				
23.4	29.9	46.9	70.9	102.4	164.3	272.2	551.4	740.2				
21.2	27.3	42.7	60.3	84.7	119.4	175.3	360.8	510.3				
18.3	21.8	31.1	42.4	62.3	83.5	103.7	217.9	333.8				
15.1	16.4	22.1	27.3	41.4	49.4	57.5	122.9	233.3				
11.2	11.6	15.1	17.3	23.4	27.3	34.3	75.4	189.1				
6.4	7.4	10.3	11.6	14.1	17.3	22.5	48.1	148.3				
2.6	3.2	6.1	6.7	7.7	9.6	12.5	27.9	46.2				
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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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°	630.1	630.1	630.1	630.1
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	674.4	681.1	686.9	691.4
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	643.9	659.6	678.5	694.6
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	589.6	609.5	640.3	659.3
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	538.3	567.5	601.2	628.5
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	503.3	539.6	571.6	602.1
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	493.7	530.6	559.5	587.4
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	512.9	549.8	574.5	591.5
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	558.2	597.6	613.4	612.1
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	620.1	661.5	661.5	648.7
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	702.0	731.8	715.4	691.1
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	760.1	788.0	759.4	719.3
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	808.2	828.7	792.5	744.0
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	850.6	865.7	817.8	770.0
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	901.3	906.7	844.2	793.1
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	957.5	961.9	882.0	818.5
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	1023.6	1007.5	910.0	841.9
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	1064.3	1038.0	930.2	854.1
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	1096.4	1060.5	939.5	861.2
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	1135.9	1093.5	955.9	874.0
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	1187.9	1139.4	997.3	910.3
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	1294.5	1234.5	1071.7	973.5
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	1417.1	1360.3	1190.8	1077.8
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	1515.3	1477.1	1297.0	1172.2
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	1551.6	1535.2	1372.2	1252.1
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	1565.1	1579.2	1412.0	1300.9
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	1574.4	1635.7	1541.3	1446.6
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	1555.1	1645.0	1593.6	1535.5
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	1471.3	1578.9	1568.9	1517.9
								70°	1299.9	1419.7	1454.3	1381.8
								72.5°	978.0	1126.6	1315.7	1202.0
								75°	637.1	774.5	1123.4	1029.7
								77.5°	399.0	483.4	801.5	721.2
								80°	265.4	310.7	508.7	463.2
								82.5°	199.6	220.2	349.9	329.0
								85°	105.3	134.2	272.2	345.0
								87.5°	39.5	44.0	204.8	308.5
								90°	7.0	7.0	8.3	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

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CATALOG NUMBER: ISW-AF-350-LED-E1-SLR-7030-ULG

ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
630.1	630.1	630.1	630.1	630.1	630.1	630.1	110°	117.0	116.0	117.5	119.0	120.0
695.2	701.0	704.5	702.0	706.1	707.1	702.6	112.5°	147.0	147.0	148.0	149.0	149.5
708.1	724.1	735.7	743.7	746.9	749.8	748.5	115°	178.0	177.0	178.0	179.0	180.5
684.3	709.0	730.5	745.3	750.4	754.3	750.8	117.5°	209.0	208.0	209.0	210.0	212.5
658.0	683.7	703.9	718.7	718.3	722.2	715.4	120°	243.0	243.0	244.0	245.0	247.5
633.3	658.3	676.3	675.6	671.2	659.9	658.0	122.5°	277.0	276.0	277.0	278.0	280.5
613.7	626.9	631.3	630.4	617.5	611.1	610.2	125°	310.0	310.0	310.0	310.0	312.5
604.1	603.4	593.2	581.9	569.7	569.1	560.7	127.5°	347.0	345.0	345.5	346.0	346.0
605.7	584.8	565.9	546.6	533.5	530.6	531.5	130°	380.0	379.0	380.0	381.0	381.0
625.9	589.0	553.4	533.8	518.4	513.9	515.8	132.5°	415.0	414.0	414.0	414.0	415.0
651.2	601.8	557.5	527.7	515.2	509.7	510.7	135°	451.0	450.0	448.5	447.0	447.5
668.3	616.6	571.3	534.4	517.4	512.3	515.5	137.5°	482.0	481.0	478.5	476.0	475.5
690.1	636.8	589.9	551.7	526.4	519.7	521.9	140°	511.0	509.0	506.5	504.0	503.0
711.6	658.6	616.3	572.9	542.1	529.6	533.1	142.5°	536.0	534.0	533.5	533.0	533.0
734.7	684.0	641.3	601.8	565.6	546.0	550.5	145°	560.0	558.0	559.5	561.0	561.5
761.7	713.5	676.9	640.7	603.4	587.1	589.0	147.5°	585.0	583.0	584.5	586.0	585.5
787.7	742.4	719.0	692.0	670.2	645.2	645.2	150°	610.0	606.0	604.5	603.0	601.5
803.1	780.0	773.5	765.8	753.0	735.0	731.2	152.5°	628.0	623.0	620.5	618.0	616.0
822.0	824.6	839.3	854.7	858.6	840.9	835.5	155°	641.0	638.0	637.0	636.0	633.5
857.6	884.6	933.1	975.1	983.5	997.9	981.2	157.5°	655.0	650.0	650.0	650.0	649.0
907.7	957.5	1039.3	1108.0	1127.6	1128.9	1130.1	160°	666.0	660.0	660.5	661.0	662.5
964.8	1036.1	1144.3	1226.1	1261.1	1270.4	1263.7	162.5°	674.0	668.0	669.0	670.0	670.5
1062.7	1127.2	1245.7	1334.0	1378.9	1400.7	1394.9	165°	682.0	678.0	679.0	680.0	678.5
1159.7	1239.9	1344.2	1431.2	1479.0	1503.4	1508.6	167.5°	694.0	688.0	688.0	688.0	686.0
1225.8	1300.9	1397.2	1477.4	1524.6	1553.8	1556.4	170°	701.0	696.0	695.0	694.0	691.5
1266.2	1334.9	1429.0	1499.6	1546.8	1571.5	1580.5	172.5°	701.0	696.0	695.0	694.0	693.0
1388.8	1401.4	1465.6	1512.1	1545.2	1556.4	1563.1	175°	699.0	694.0	695.0	696.0	695.5
1446.3	1394.0	1386.6	1415.5	1418.4	1411.0	1401.7	177.5°	702.0	698.0	699.5	701.0	700.0
1366.4	1244.1	1198.8	1195.0	1183.1	1178.3	1148.8	180°	700.0	700.0	700.0	700.0	700.0
1186.6	1010.4	930.5	887.2	913.5	912.5	882.3						
999.8	820.4	716.7	654.5	646.8	645.5	619.2						
812.1	643.9	553.0	522.9	486.6	475.7	480.2						
585.5	459.6	440.4	463.5	466.4	458.0	452.2						
368.8	345.7	364.3	406.3	431.1	420.2	424.3						
307.5	272.2	273.5	317.8	334.5	337.0	328.4						
341.2	272.5	223.4	217.9	212.2	133.5	185.8						
307.5	210.9	124.2	102.4	62.9	36.3	37.6						
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°	630.1	630.1	630.1	630.1	630.1	630.1
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	701.6	695.5	688.8	679.8	681.4	670.5
182.0	180.5	179.0	176.5	174.0	171.0	5°	738.6	728.0	713.5	695.2	678.2	656.4
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	734.7	717.7	693.6	666.0	643.5	612.1
250.0	248.0	246.0	244.5	243.0	240.0	10°	701.6	679.5	659.9	631.3	602.1	574.5
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	655.4	642.9	625.9	604.4	576.1	547.9
315.0	314.0	313.0	311.5	310.0	307.5	15°	605.0	606.0	595.7	589.9	575.8	553.4
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	563.6	573.3	578.7	587.7	589.3	578.4
381.0	379.0	377.0	374.5	372.0	371.0	20°	536.0	549.5	566.5	591.2	617.2	628.5
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	520.6	537.3	564.6	609.5	657.0	685.6
448.0	445.5	443.0	440.0	437.0	436.0	25°	517.7	539.9	578.1	633.0	694.6	734.7
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	522.5	551.4	596.7	659.3	719.9	778.0
502.0	501.0	500.0	498.5	497.0	494.0	30°	537.9	571.6	621.1	688.5	751.4	809.2
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	552.7	594.4	649.0	714.8	778.0	835.5
562.0	559.0	556.0	553.5	551.0	550.5	35°	576.5	618.5	674.4	735.0	796.3	861.5
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	612.7	649.6	694.3	750.8	814.6	882.0
600.0	598.5	597.0	595.0	593.0	593.0	40°	664.4	688.8	717.7	762.3	823.6	895.8
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	741.8	746.9	756.8	780.0	831.6	911.9
631.0	628.5	626.0	627.0	628.0	629.0	45°	841.6	826.2	817.5	814.3	849.6	922.1
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	957.5	927.3	892.6	875.9	884.3	938.5
664.0	661.0	658.0	656.5	655.0	655.0	50°	1108.3	1059.2	991.2	943.0	938.8	986.7
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	1246.7	1182.5	1096.8	1039.9	1016.8	1076.5
677.0	674.5	672.0	672.5	673.0	673.0	55°	1377.3	1327.9	1230.9	1160.3	1152.3	1195.6
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	1491.9	1449.2	1369.9	1277.8	1281.0	1323.0
689.0	687.5	686.0	688.5	691.0	692.0	59°	1551.3	1515.6	1442.1	1348.4	1355.5	1413.2
692.0	690.5	689.0	689.5	690.0	690.0	60°	1572.4	1542.6	1472.6	1393.7	1402.6	1462.7
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	1570.8	1551.6	1500.9	1463.6	1509.5	1553.5
699.0	696.5	694.0	694.5	695.0	696.0	65°	1420.9	1391.7	1386.0	1451.1	1539.7	1582.1
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	1130.1	1143.9	1198.8	1310.8	1459.5	1521.1
						70°	839.3	863.7	936.9	1077.5	1281.6	1388.2
						72.5°	617.2	641.6	709.0	863.1	1054.4	1148.8
						75°	484.3	491.7	540.2	661.2	831.0	908.3
						77.5°	447.4	425.3	405.4	470.2	560.4	626.9
						80°	416.6	374.6	327.7	347.3	369.1	439.7
						82.5°	323.5	295.6	259.0	284.1	294.3	296.6
						85°	189.4	168.5	213.4	302.4	299.1	261.9
						87.5°	66.8	86.7	97.6	167.5	202.5	175.3
						90°	8.0	9.0	10.9	10.7	11.8	7.6
						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°
630.1	630.1	630.1	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
661.8	652.9	652.2	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
639.1	618.8	612.4	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
584.8	561.4	556.6	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
539.2	513.2	508.7	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
515.8	491.1	485.6	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
524.8	497.5	494.6	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
558.5	529.6	530.9	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
616.3	597.6	593.2	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
692.0	671.8	666.0	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
756.5	746.3	742.4	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
803.1	807.9	804.0	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
840.3	856.4	854.4	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
878.5	909.6	910.9	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
906.7	961.6	972.9	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
943.0	1016.5	1028.1	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
970.6	1057.0	1071.1	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
997.6	1090.3	1105.7	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
1019.7	1123.4	1139.1	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
1044.8	1155.5	1170.9	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
1089.7	1205.9	1224.2	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
1186.3	1299.3	1325.3	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
1325.9	1428.3	1448.9	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
1451.8	1515.9	1521.4	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
1503.4	1540.0	1538.4	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
1541.3	1545.8	1536.8	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
1561.8	1519.2	1503.7	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
1508.2	1448.9	1428.6	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
1353.5	1322.1	1299.0	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
1151.3	1071.7	1056.6								
872.7	767.8	745.3								
609.8	484.0	453.5								
400.9	310.7	299.1								
260.0	206.4	202.9								
181.3	135.4	124.9								
111.4	45.3	43.3								
34.7	20.9	18.6								
6.0	6.3	6.3								
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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