

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: P227287

Luminaire Tested: **ISW-AF-350-LED-E1-SLR-7060-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227287  
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-7060-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) 5700K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3890.7 lumens  
Efficiency: N/A  
Efficacy: 105.8 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 - 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

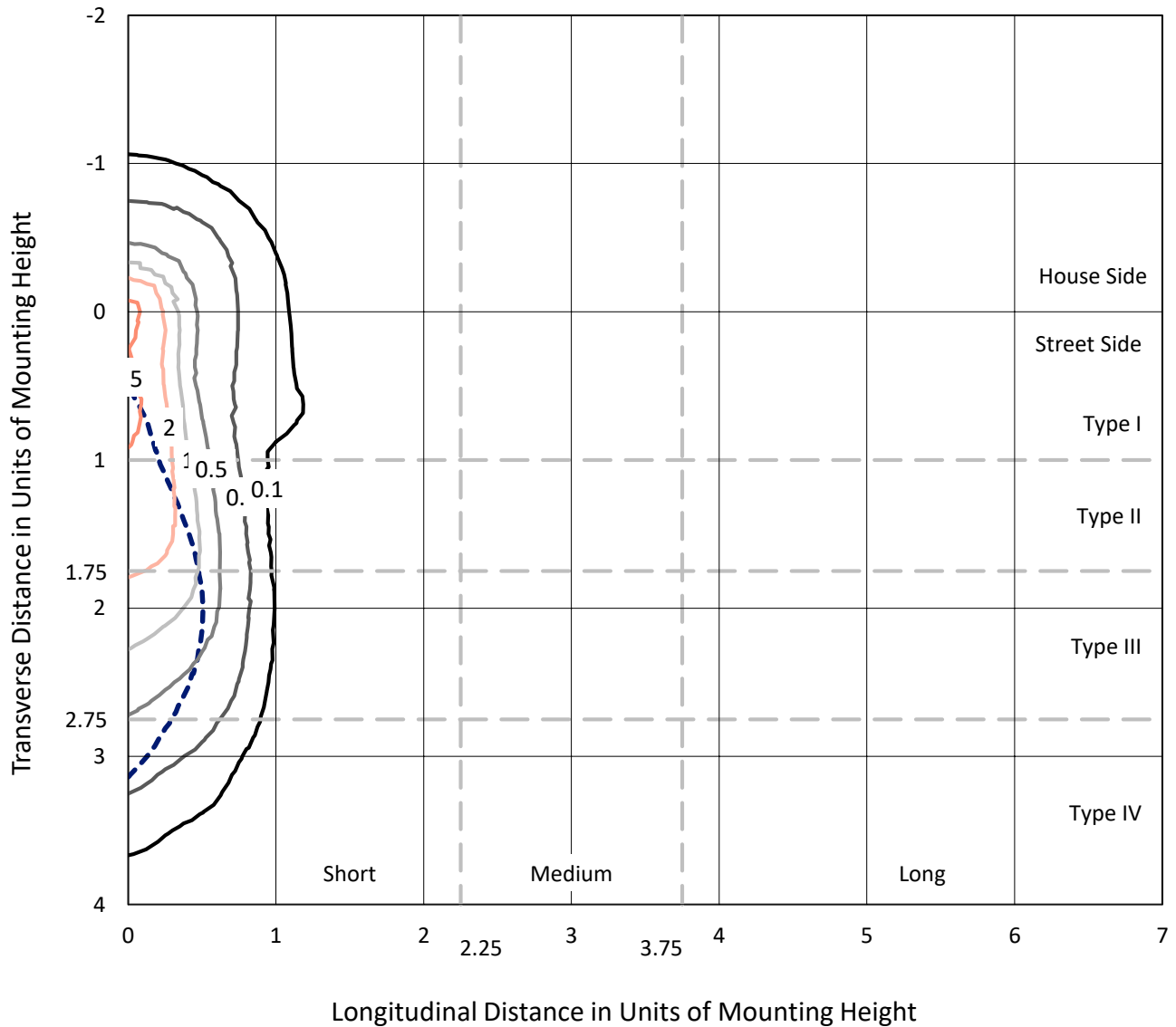


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

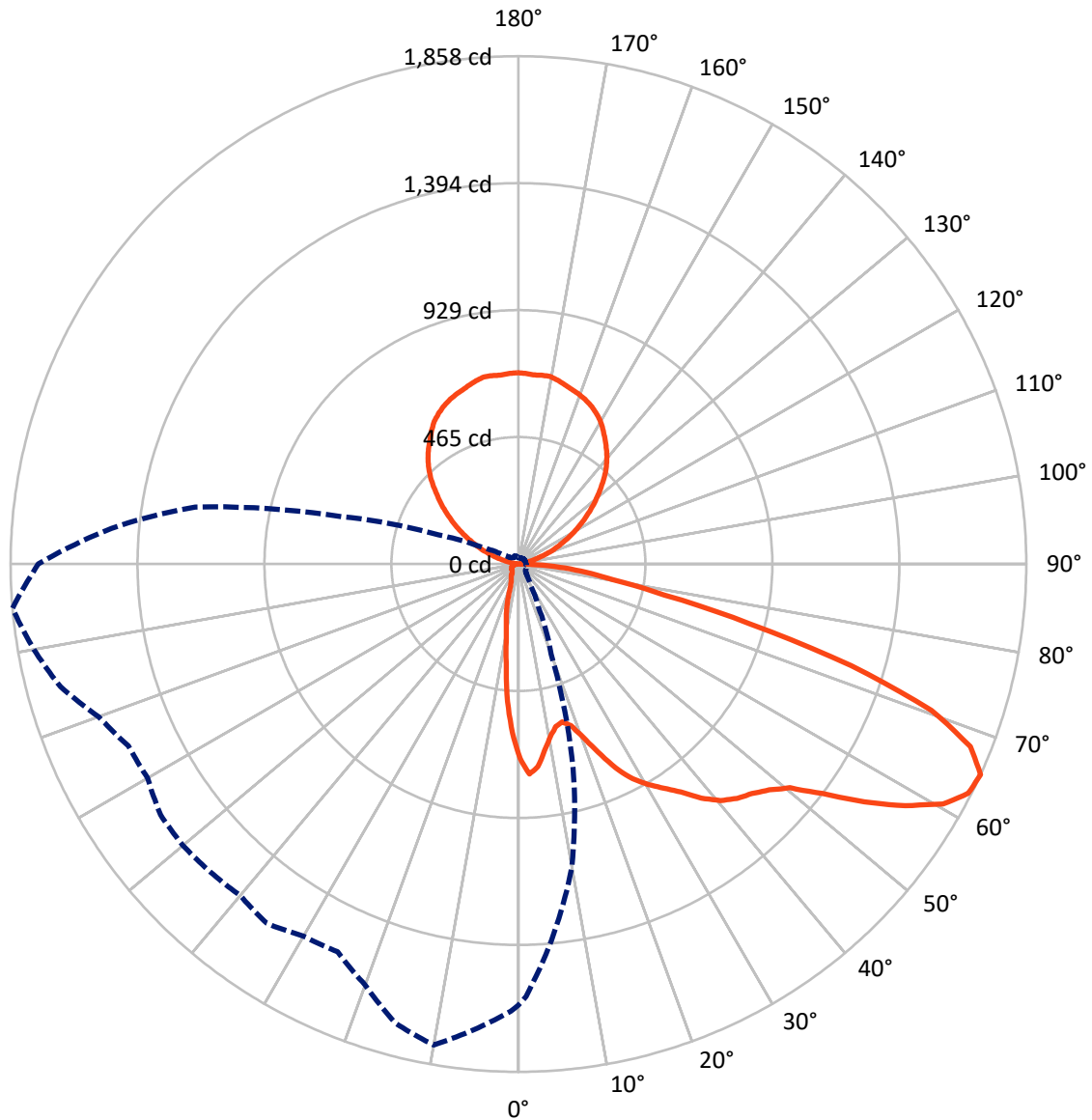


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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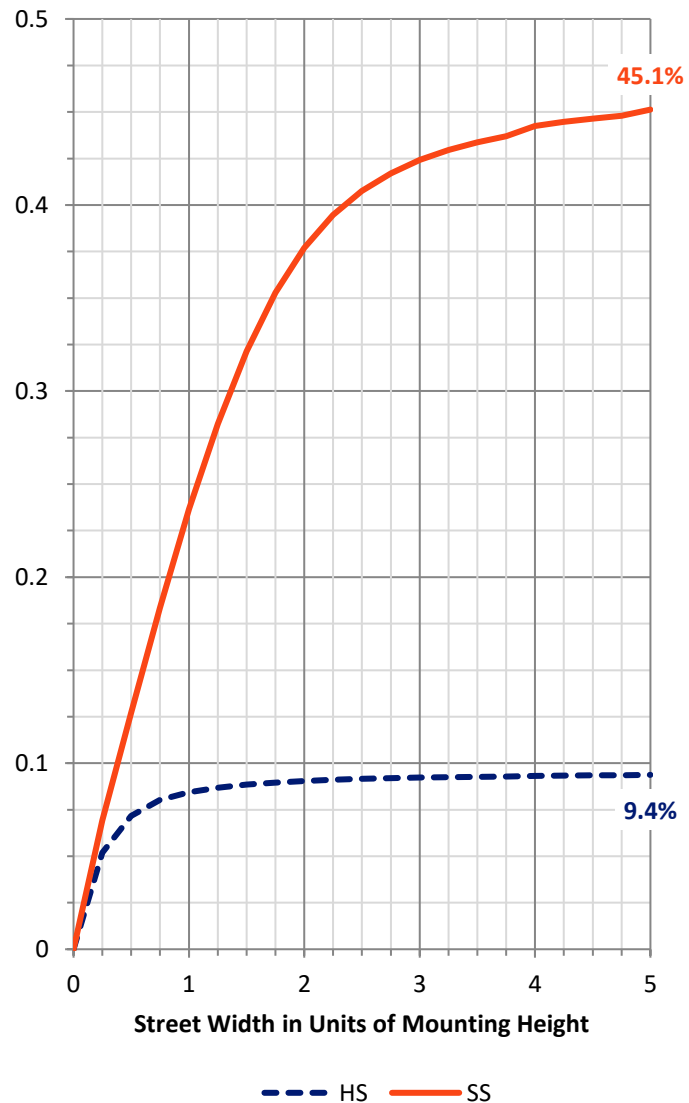
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	370.1	867.6	1237.7
	% Fixture	9.5	22.3	31.8
<b>Street Side</b>	Lumens	1785.4	867.7	2653.0
	% Fixture	45.9	22.3	68.2
<b>Total</b>	Lumens	2155.5	1735.2	3890.7
	% Fixture	55.4	44.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.7	1.4
10°-20°	101.5	2.6
20°-30°	144.7	3.7
30°-40°	209.9	5.4
40°-50°	300.3	7.7
50°-60°	461.0	11.8
60°-70°	533.6	13.7
70°-80°	272.2	7.0
80°-90°	79.6	2.0
90°-100°	9.4	0.2
100°-110°	57.4	1.5
110°-120°	166.1	4.3
120°-130°	273.2	7.0
130°-140°	336.8	8.7
140°-150°	344.6	8.9
150°-160°	290.3	7.5
160°-170°	191.2	4.9
170°-180°	66.3	1.7
0°-90°	2155.5	55.4
0°-180°	3890.7	100.0



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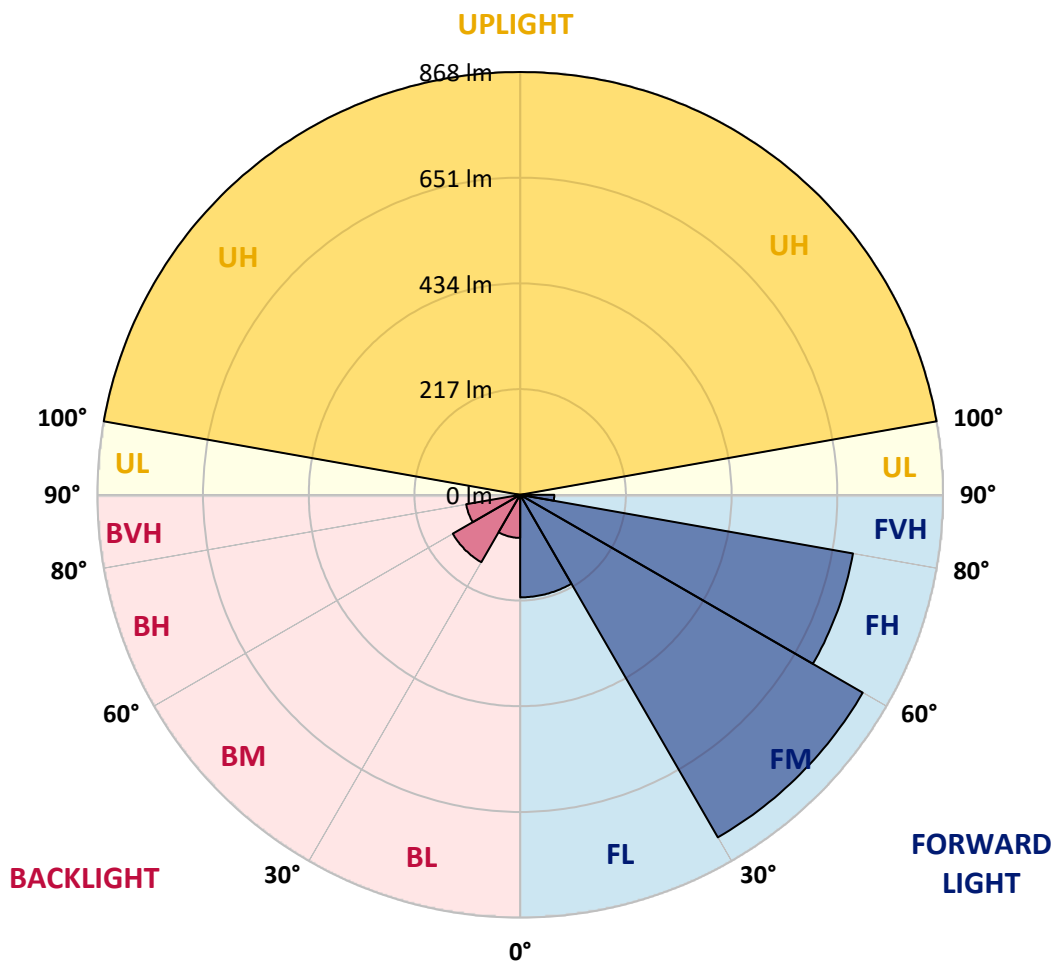
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	210.4	5.4			
FM	(30°-60°)	811.6	20.9			
FH	(60°-80°)	693.4	17.8			G1/1800
FVH	(80°-90°)	69.9	1.8			G1/100
BL	(0°-30°)	88.5	2.3	B0/110		
BM	(30°-60°)	159.6	4.1	B0/220		
BH	(60°-80°)	112.4	2.9	B1/500		G1/500
BVH	(80°-90°)	9.6	0.2			G0/10
UL	(90°-100°)	9.4	0.2		U1/10	
UH	(100°-180°)	867.6	22.3		U4/1000	

**BUG Rating: B1-U5-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8
2.5°	736.8	732.4	727.0	717.6	709.2	697.3	694.4	679.5	670.1	672.3	655.2
5°	691.8	689.3	675.9	654.9	641.1	613.9	598.3	590.3	567.8	564.9	558.8
7.5°	628.7	621.1	599.4	573.3	549.7	529.8	504.7	485.5	468.5	458.0	439.5
10°	574.7	566.7	543.2	511.3	483.0	455.1	434.8	409.7	385.4	366.6	351.7
12.5°	548.6	539.9	512.3	475.4	443.8	409.0	380.4	355.7	342.3	332.9	320.5
15°	558.8	546.1	513.1	468.8	429.7	392.7	362.2	335.8	319.8	305.3	290.8
17.5°	599.7	584.1	546.4	493.1	438.7	390.9	347.4	317.3	291.9	270.1	250.6
20°	670.1	658.5	603.7	529.0	458.3	392.0	334.7	295.2	264.3	236.8	210.7
22.5°	752.4	735.0	681.3	577.6	483.3	398.5	326.7	276.7	240.0	203.1	174.8
25°	838.7	825.3	754.2	642.9	521.8	411.9	320.5	260.3	211.4	170.4	139.2
27.5°	908.3	896.3	826.0	705.6	556.9	423.5	311.5	244.8	188.6	139.2	104.8
30°	965.2	955.1	881.5	757.1	599.7	427.5	298.8	226.6	163.2	112.4	86.7
32.5°	1029.1	1017.8	934.8	793.0	619.0	423.9	284.3	209.6	142.9	99.4	74.3
35°	1099.0	1086.0	994.2	831.8	634.9	411.2	271.9	197.3	133.1	90.3	66.0
37.5°	1161.4	1153.1	1047.9	870.2	653.0	390.2	260.0	183.8	126.5	83.8	59.5
40°	1210.0	1207.8	1107.4	902.1	667.2	374.9	250.2	173.3	118.2	81.2	57.3
42.5°	1249.1	1248.4	1156.0	930.8	670.8	361.5	242.6	163.9	110.6	75.1	58.4
45°	1286.9	1286.5	1203.1	970.7	673.3	362.2	236.8	158.1	104.1	71.1	55.1
47.5°	1322.8	1328.2	1252.4	1026.1	700.2	374.6	234.6	152.7	99.0	66.7	52.2
50°	1382.9	1377.5	1330.4	1101.2	743.3	398.5	231.0	147.9	94.3	62.7	49.3
52.5°	1497.2	1491.0	1448.9	1201.6	790.5	423.2	226.3	141.4	88.8	58.4	46.0
55°	1636.8	1645.1	1586.7	1323.8	854.6	443.8	221.2	132.7	81.6	53.3	43.9
57.5°	1718.7	1711.8	1645.1	1394.2	894.2	454.3	217.9	122.6	70.3	49.0	41.7
59°	1737.9	1726.3	1635.3	1406.2	904.7	449.3	216.1	112.8	64.5	46.8	40.6
60°	1736.1	1722.0	1619.7	1398.5	907.6	443.1	213.2	107.0	61.3	45.7	40.2
62.5°	1698.8	1676.6	1531.2	1306.4	867.0	412.3	201.2	93.2	56.9	44.2	38.1
65°	1613.9	1582.7	1382.6	1126.6	773.8	351.0	174.0	88.1	58.0	43.5	36.6
67.5°	1467.4	1442.4	1191.5	932.2	616.8	283.6	150.5	85.9	59.5	44.2	34.4
70°	1193.7	1172.3	929.7	698.0	461.9	225.5	136.7	84.8	58.4	42.4	32.6
72.5°	842.0	805.0	617.9	488.8	293.0	181.3	118.6	80.1	56.9	41.0	29.7
75°	512.3	519.2	392.7	356.1	184.9	124.4	93.2	67.4	50.4	36.6	26.8
77.5°	337.9	337.6	289.7	251.3	93.9	77.2	66.0	51.9	39.5	30.1	23.2
80°	229.2	231.7	210.3	171.5	52.2	46.4	43.1	37.7	29.0	22.8	19.2
82.5°	141.1	141.4	162.8	128.4	34.8	29.4	27.6	25.4	20.7	17.8	14.9
85°	49.0	50.0	56.9	90.6	23.6	19.2	19.2	17.8	15.6	12.0	9.8
87.5°	21.0	20.7	24.7	24.7	11.6	9.8	9.1	9.1	8.7	6.5	5.4
90°	6.5	6.1	6.1	7.5	8.8	10.0	10.2	10.5	10.5	9.7	8.5
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°	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8
2.5°	650.1	646.1	634.9	632.0	635.6	628.4	626.6	624.8	611.3	618.2	610.3
5°	543.5	542.4	519.6	524.3	519.6	511.6	508.4	516.0	502.6	505.5	507.3
7.5°	417.7	413.4	398.1	388.0	381.8	376.4	369.5	358.2	366.9	365.1	378.9
10°	339.0	329.6	320.2	306.0	298.1	290.4	282.5	278.1	268.0	266.9	262.2
12.5°	310.7	297.3	285.4	273.0	264.7	249.5	236.8	228.8	222.3	212.1	204.5
15°	273.0	261.8	246.2	234.2	221.2	207.4	195.1	184.9	180.2	170.8	166.4
17.5°	235.0	217.9	199.1	187.1	169.0	154.8	144.7	138.1	131.3	125.5	120.4
20°	189.3	167.2	146.9	131.6	117.5	103.7	99.0	91.0	88.1	85.9	87.7
22.5°	144.0	121.1	100.1	88.5	80.9	77.2	73.2	71.8	70.7	70.3	71.1
25°	105.5	86.3	76.1	71.8	68.9	66.7	65.3	64.2	63.5	63.1	63.5
27.5°	81.6	71.4	66.4	63.5	61.3	59.8	59.1	58.0	57.7	57.3	57.7
30°	70.7	65.3	61.6	58.7	56.2	53.7	52.6	52.2	52.6	52.9	52.6
32.5°	61.6	57.7	53.7	51.1	49.3	47.9	47.9	47.1	47.1	48.2	48.6
35°	55.8	51.9	49.0	45.7	43.5	42.1	41.0	40.2	40.6	40.6	41.7
37.5°	51.1	48.2	45.7	42.8	40.6	39.2	38.4	37.7	37.3	37.0	37.0
40°	47.9	46.0	43.9	41.0	38.8	37.3	36.6	35.9	35.5	35.2	35.2
42.5°	47.9	44.2	42.8	40.2	37.7	36.3	35.2	34.4	33.7	33.7	33.7
45°	52.6	45.3	42.8	39.9	37.3	35.5	34.4	33.4	32.6	32.6	32.3
47.5°	51.1	50.8	43.5	39.9	37.7	35.5	34.1	33.0	32.3	31.9	31.5
50°	48.6	52.9	48.6	41.0	37.7	35.2	33.7	32.6	31.5	31.2	31.2
52.5°	47.1	49.3	50.4	42.4	38.1	35.2	33.4	32.3	31.5	30.8	30.5
55°	43.5	46.4	48.2	41.7	38.1	34.4	32.6	31.5	30.5	30.1	29.7
57.5°	39.9	42.1	46.4	41.7	37.0	34.1	31.9	30.5	29.7	29.4	29.0
59°	38.8	38.8	41.3	42.8	36.3	33.7	31.5	30.1	29.4	29.0	28.3
60°	37.7	37.7	39.2	43.9	35.9	33.4	31.2	29.7	28.6	28.6	28.3
62.5°	36.3	35.2	35.9	41.0	34.8	32.6	30.5	29.0	27.9	27.9	27.6
65°	34.4	33.0	33.0	34.1	32.6	31.2	29.7	28.3	26.8	26.8	27.2
67.5°	32.6	31.2	30.8	30.8	30.1	29.7	28.3	26.8	26.1	26.1	26.1
70°	30.1	29.0	28.6	27.9	27.9	27.6	26.5	25.4	24.7	25.0	24.7
72.5°	27.2	26.5	25.7	25.7	25.4	25.0	23.9	23.2	22.8	23.2	23.2
75°	24.3	23.2	23.2	22.5	22.5	22.1	21.0	20.7	20.3	20.7	21.0
77.5°	20.7	19.9	19.6	19.6	19.6	19.6	18.1	17.8	17.8	18.5	18.5
80°	17.0	16.7	16.3	16.3	16.3	16.0	15.2	14.9	14.9	15.2	15.6
82.5°	13.1	12.3	12.3	12.7	13.1	13.1	12.0	11.2	11.2	12.0	12.7
85°	8.7	8.7	8.7	9.1	9.1	9.4	8.7	7.6	8.0	8.3	9.4
87.5°	4.7	5.1	4.7	4.4	5.1	4.7	4.7	4.4	4.7	5.1	5.4
90°	8.5	8.5	9.1	9.7	9.4	9.7	8.7	8.1	7.4	7.4	8.7
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



REPORT NUMBER: P227287

CATALOG NUMBER: ISW-AF-350-LED-E1-SLR-7060-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: P227287

CATALOG NUMBER: ISW-AF-350-LED-E1-SLR-7060-ULG

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8
2.5°	617.5	611.3	608.1	620.8	619.7	608.8	608.8	616.4	616.8	610.3	617.9
5°	509.4	503.3	509.1	504.0	506.9	506.5	510.9	502.9	506.2	503.3	496.4
7.5°	377.8	390.2	396.7	388.3	398.9	404.3	396.7	404.3	392.3	382.5	392.0
10°	260.0	273.8	271.2	284.6	289.7	292.6	298.1	291.2	282.8	280.3	273.4
12.5°	201.6	198.7	197.6	203.1	206.3	201.6	205.6	201.2	196.9	189.3	188.9
15°	157.7	153.0	149.8	143.6	141.4	142.5	144.3	144.3	135.6	136.0	139.2
17.5°	119.7	118.6	116.0	111.0	107.7	108.8	108.4	106.6	105.5	106.2	110.2
20°	89.9	88.8	90.3	91.7	90.6	91.0	89.6	87.7	87.0	87.7	88.5
22.5°	71.1	72.5	74.3	76.5	76.9	78.7	78.3	78.7	77.2	76.5	74.7
25°	64.9	65.6	64.5	64.9	64.9	66.7	66.4	66.4	64.9	64.5	64.9
27.5°	57.3	56.9	56.9	57.7	57.7	58.7	59.5	58.7	57.3	56.9	57.3
30°	52.9	52.6	52.2	52.6	52.2	52.6	53.3	53.3	52.6	51.5	51.9
32.5°	48.6	48.6	48.2	48.6	48.2	48.2	49.0	47.9	47.9	47.5	47.5
35°	42.8	43.5	44.2	44.6	44.6	44.6	45.3	44.2	43.9	43.5	43.5
37.5°	37.0	37.7	39.9	41.0	41.3	42.1	42.4	41.7	41.0	40.2	39.5
40°	35.2	35.2	35.9	37.3	38.8	39.2	39.9	38.8	38.4	37.3	36.3
42.5°	33.7	34.1	34.1	34.4	34.8	35.5	36.6	35.5	34.8	34.1	33.0
45°	32.6	32.6	32.6	32.6	32.3	32.3	32.6	31.9	31.5	31.2	31.2
47.5°	31.9	31.5	31.2	30.8	30.5	30.1	30.1	29.4	29.4	29.4	29.4
50°	31.2	30.5	30.1	29.7	29.0	29.0	29.0	28.3	27.9	27.9	28.3
52.5°	30.1	29.7	29.4	29.0	28.6	28.3	28.3	27.6	27.2	27.2	27.2
55°	29.7	29.4	28.6	28.3	27.9	28.3	27.9	27.6	26.8	26.8	26.8
57.5°	28.6	29.0	28.6	27.9	27.9	27.9	27.9	27.2	26.8	26.1	26.5
59°	28.3	28.6	28.3	27.9	27.6	27.9	27.9	26.8	26.5	26.1	26.1
60°	27.9	28.3	27.9	27.6	27.6	27.9	27.6	27.2	26.5	25.4	25.7
62.5°	27.6	27.6	27.2	27.2	26.8	27.2	26.8	26.1	25.4	24.7	24.3
65°	26.8	26.8	26.5	26.5	26.1	26.1	26.1	25.4	24.7	23.9	23.9
67.5°	26.5	26.1	25.7	25.7	25.4	25.4	25.4	24.7	23.6	23.2	22.8
70°	25.0	24.7	24.7	24.3	23.9	24.3	24.7	23.6	22.5	21.8	21.4
72.5°	23.6	23.2	23.2	22.8	22.8	23.2	23.6	22.5	21.0	20.3	19.9
75°	21.4	21.0	21.0	21.0	21.0	21.8	21.8	20.7	19.6	18.5	17.8
77.5°	18.5	18.9	18.9	18.9	18.9	19.6	19.6	18.9	17.8	17.0	16.0
80°	16.0	16.0	16.3	16.3	16.7	16.7	16.3	16.0	15.6	14.9	13.4
82.5°	13.4	13.4	13.4	13.4	13.4	13.1	12.3	13.1	13.1	12.3	11.2
85°	10.5	10.5	10.5	10.9	10.9	9.8	8.7	8.7	9.8	9.4	8.7
87.5°	6.2	6.2	6.5	7.6	6.9	6.5	5.4	5.8	5.4	6.2	5.1
90°	10.5	10.1	10.1	8.4	7.7	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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REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	110°	80.5
618.6	620.0	623.3	622.2	634.2	630.6	638.9	650.1	660.7	655.6	657.0	112.5°	113.5
508.7	510.5	496.8	505.1	517.4	512.3	510.5	527.2	523.2	542.1	526.5	115°	153.0
376.7	372.4	365.9	362.6	353.5	353.5	370.6	378.2	377.1	390.2	403.6	117.5°	193.0
264.7	259.6	251.6	249.5	258.5	262.9	270.5	278.1	288.3	303.1	311.8	120°	229.5
194.4	192.5	194.4	199.8	208.1	214.3	225.9	239.3	250.6	262.5	274.1	122.5°	264.0
146.9	150.5	155.2	158.8	165.3	176.9	183.1	198.0	208.1	218.6	232.1	125°	297.5
114.2	116.4	117.5	118.9	124.4	132.7	132.7	147.9	161.4	175.1	186.4	127.5°	331.0
87.0	87.0	83.4	85.6	86.3	85.6	89.9	98.6	107.3	116.4	134.2	130°	364.0
72.9	70.7	69.6	69.3	69.6	71.1	73.6	76.9	78.3	82.3	89.2	132.5°	397.0
64.5	64.2	63.1	63.1	63.8	64.2	66.7	69.6	70.3	71.4	74.0	135°	429.0
56.9	57.7	58.7	58.4	58.7	59.5	61.3	63.8	65.3	65.6	67.4	137.5°	459.5
51.5	52.2	52.6	53.7	53.7	54.0	55.5	58.0	59.1	60.9	62.7	140°	488.0
47.9	48.2	48.6	48.2	48.6	48.6	50.4	52.9	54.4	55.5	56.6	142.5°	517.5
43.9	43.5	43.5	43.5	42.4	42.1	42.8	45.3	45.7	46.8	49.3	145°	545.5
39.2	38.1	37.3	37.3	37.3	37.7	39.5	42.1	42.4	43.5	45.7	147.5°	572.5
34.8	34.4	34.4	34.8	35.2	35.9	37.3	39.9	40.2	41.3	43.1	150°	593.0
32.6	32.6	32.6	33.0	33.4	33.7	35.5	38.1	38.8	39.9	42.1	152.5°	608.5
31.2	31.5	31.2	31.2	31.5	32.3	34.1	37.0	38.1	39.2	41.3	155°	626.0
30.1	30.1	30.1	30.5	30.5	31.2	33.4	36.3	37.0	38.4	41.7	157.5°	643.5
28.6	29.4	29.0	29.4	29.7	30.5	32.6	35.5	36.6	38.8	42.4	160°	657.5
27.9	27.9	27.9	28.3	29.0	29.4	31.2	34.4	35.9	38.8	44.6	162.5°	667.0
27.6	26.8	26.8	27.2	27.9	28.6	30.5	33.7	35.5	38.4	44.2	165°	676.0
27.2	26.1	25.7	26.1	26.8	27.2	29.4	32.6	35.2	37.3	42.8	167.5°	685.0
26.1	25.4	25.0	25.4	26.1	26.8	28.6	31.9	33.7	36.6	41.0	170°	692.0
25.7	24.7	24.7	25.0	25.7	26.1	27.9	31.2	33.0	37.0	42.1	172.5°	694.0
24.3	23.9	23.9	24.3	24.3	25.0	27.2	30.5	31.9	37.7	35.2	175°	696.0
23.2	23.2	23.2	23.2	23.6	23.9	26.5	29.7	30.5	32.6	30.1	177.5°	699.5
22.5	22.5	22.5	22.5	22.5	23.2	25.4	28.6	29.0	28.6	27.6	180°	700.0
21.0	21.0	21.0	21.0	21.4	21.8	23.9	26.8	26.8	26.1	26.1		
19.9	19.6	19.6	19.6	19.6	19.9	22.1	25.0	24.7	24.3	24.3		
17.8	17.8	17.8	17.8	17.8	17.8	19.9	22.8	22.5	22.1	21.8		
15.6	15.6	16.0	15.6	15.2	14.9	17.0	20.3	20.3	19.9	19.6		
13.4	13.1	13.4	13.1	12.3	12.3	14.1	17.0	17.4	17.0	16.3		
10.9	10.5	10.5	10.5	9.1	9.1	10.9	13.8	13.8	13.4	12.7		
8.3	8.0	7.6	7.3	6.2	6.2	7.6	10.2	10.5	9.1	8.7		
4.4	4.4	4.4	3.3	2.9	2.5	4.0	6.2	6.2	5.1	4.4		
7.5	7.0	6.0	5.0	5.0	5.0	6.0	7.4	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		

'227287  
 ISW-AF-350-LED-E1-SLR-7060-ULG

REPORT NUMBER: P227287  
 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°	711.8	711.8
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	666.1	669.4
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	538.1	550.8
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	406.8	423.9
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	326.0	337.6
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	286.1	302.8
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	245.5	263.6
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	201.2	223.4
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	153.7	175.5
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	108.1	126.5
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	78.7	87.0
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	70.0	73.2
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	65.6	67.8
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	59.1	61.3
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	51.9	54.8
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	48.2	50.4
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	46.0	46.4
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	44.2	44.2
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	43.1	44.2
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	43.9	48.6
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	49.3	47.9
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	50.4	45.0
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	46.0	43.1
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	41.3	37.7
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	37.0	34.8
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	34.4	33.7
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	31.5	32.3
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	29.4	30.8
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	28.3	29.4
										70°	26.5	27.2
										72.5°	24.7	25.0
										75°	22.1	22.5
										77.5°	19.6	19.6
										80°	16.0	16.0
										82.5°	12.3	12.0
										85°	8.0	7.6
										87.5°	3.6	2.9
										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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**tinued):**

**CANDELA DISTRIBUTION (continued):**

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	110°	102.0	108.0	114.0
685.7	695.8	703.8	702.4	719.4	729.5	731.0	741.5	751.7	112.5°	134.0	138.5	143.0
560.9	575.1	588.9	599.0	625.8	648.0	665.0	683.1	704.5	115°	168.0	171.0	174.0
447.1	459.0	481.5	497.8	526.1	551.9	576.9	605.5	629.8	117.5°	202.0	203.5	205.0
350.3	365.5	386.5	417.0	442.4	471.7	503.3	530.5	571.1	120°	237.0	240.0	243.0
314.7	324.2	341.6	356.1	387.6	418.8	454.3	491.7	529.0	122.5°	271.0	274.0	277.0
278.1	294.8	311.1	332.1	359.7	393.8	432.2	472.5	514.5	125°	305.0	307.5	310.0
242.6	264.7	282.5	305.3	336.1	379.3	429.3	479.4	528.7	127.5°	339.0	339.5	340.0
199.1	219.7	250.9	274.1	314.4	368.4	432.6	501.8	568.6	130°	370.0	371.0	372.0
156.6	178.8	214.3	248.7	293.0	362.6	445.6	538.8	628.0	132.5°	404.0	404.5	405.0
112.0	142.1	177.3	220.8	274.5	359.0	463.4	584.5	704.5	135°	435.0	436.0	437.0
83.8	104.8	147.6	195.1	253.8	352.4	482.3	626.9	756.7	137.5°	464.0	466.0	468.0
74.7	89.6	117.5	167.5	228.4	339.8	496.4	667.2	804.2	140°	491.0	494.0	497.0
65.3	76.9	99.0	141.4	205.6	320.2	502.6	688.6	837.2	142.5°	521.0	523.0	525.0
57.3	68.2	90.6	131.3	194.0	298.1	501.5	710.0	878.6	145°	550.0	550.5	551.0
52.2	61.6	87.0	128.7	184.9	277.7	502.6	744.4	939.9	147.5°	574.0	574.5	575.0
48.2	59.1	84.1	123.3	180.6	266.5	506.9	774.9	992.4	150°	593.0	593.0	593.0
48.2	58.4	76.9	115.7	178.4	267.6	508.7	798.4	1031.6	152.5°	610.0	610.0	610.0
50.8	54.8	71.4	111.3	179.8	275.6	506.5	822.4	1069.7	155°	630.0	629.0	628.0
48.2	51.1	67.8	110.6	179.8	281.4	513.1	852.1	1119.7	157.5°	646.0	645.5	645.0
45.7	47.5	66.7	109.5	176.2	286.8	539.9	907.6	1185.0	160°	655.0	655.0	655.0
42.4	44.6	65.3	107.7	172.2	293.7	587.4	1000.8	1293.0	162.5°	661.0	662.0	663.0
38.4	42.8	63.1	104.8	169.7	306.0	636.0	1095.0	1421.7	165°	673.0	673.0	673.0
37.0	41.0	58.0	97.9	167.2	319.4	687.8	1185.3	1537.4	167.5°	688.0	686.5	685.0
35.9	39.5	53.7	92.8	165.0	326.0	703.4	1219.8	1582.0	170°	693.0	692.0	691.0
35.2	38.8	51.1	88.5	162.4	326.3	714.7	1232.8	1588.5	172.5°	690.0	690.0	690.0
34.1	37.3	46.0	79.4	154.5	326.0	715.8	1241.2	1569.7	175°	691.0	690.5	690.0
32.3	35.9	46.4	74.7	140.0	310.7	670.8	1200.9	1494.6	177.5°	697.0	696.0	695.0
30.8	34.8	49.0	75.8	124.7	271.6	586.7	1075.8	1334.0	180°	700.0	700.0	700.0
28.6	34.1	51.1	78.3	120.4	225.5	443.8	878.6	1117.2				
26.5	33.7	52.9	80.1	115.7	185.6	307.5	622.9	836.1				
23.9	30.8	48.2	68.2	95.7	134.9	198.0	407.6	576.5				
20.7	24.7	35.2	47.9	70.3	94.3	117.1	246.2	377.1				
17.0	18.5	25.0	30.8	46.8	55.8	64.9	138.9	263.6				
12.7	13.1	17.0	19.6	26.5	30.8	38.8	85.2	213.6				
7.3	8.3	11.6	13.1	16.0	19.6	25.4	54.4	167.5				
2.9	3.6	6.9	7.6	8.7	10.9	14.1	31.5	52.2				
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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**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°	711.8	711.8	711.8	711.8
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	761.8	769.4	776.0	781.0
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	727.4	745.1	766.5	784.7
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	666.1	688.6	723.4	744.8
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	608.1	641.1	679.1	710.0
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	568.6	609.5	645.8	680.2
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	557.7	599.4	632.0	663.6
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	579.4	621.1	649.0	668.3
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	630.6	675.2	692.9	691.5
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	700.5	747.3	747.3	732.8
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	793.0	826.7	808.2	780.7
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	858.6	890.2	857.9	812.6
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	913.0	936.2	895.3	840.5
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	960.9	977.9	923.9	869.9
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	1018.2	1024.3	953.6	896.0
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	1081.6	1086.7	996.4	924.6
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	1156.3	1138.2	1028.0	951.1
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	1202.4	1172.6	1050.8	964.9
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	1238.6	1198.0	1061.3	972.8
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	1283.2	1235.4	1079.8	987.4
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	1342.0	1287.2	1126.6	1028.3
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	1462.4	1394.5	1210.7	1099.8
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	1600.9	1536.7	1345.2	1217.6
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	1711.8	1668.7	1465.3	1324.2
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	1752.8	1734.3	1550.1	1414.5
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	1768.0	1784.0	1595.1	1469.6
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	1778.5	1847.8	1741.2	1634.2
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	1756.8	1858.3	1800.3	1734.7
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	1662.1	1783.6	1772.4	1714.7
								70°	1468.5	1603.8	1642.9	1561.0
								72.5°	1104.8	1272.7	1486.3	1357.9
								75°	719.8	874.9	1269.1	1163.2
								77.5°	450.7	546.1	905.4	814.8
								80°	299.9	351.0	574.7	523.2
								82.5°	225.5	248.7	395.2	371.7
								85°	118.9	151.6	307.5	389.8
								87.5°	44.6	49.7	231.3	348.5
								90°	7.0	7.0	8.4	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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ULG

**CANDELA DISTRIBUTION (continued):**

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
711.8	711.8	711.8	711.8	711.8	711.8	711.8	110°	117.0	116.0	117.5	119.0	120.0
785.4	791.9	795.9	793.0	797.7	798.8	793.7	112.5°	147.0	147.0	148.0	149.0	149.5
799.9	818.0	831.1	840.1	843.8	847.0	845.6	115°	178.0	177.0	178.0	179.0	180.5
773.1	801.0	825.3	842.0	847.8	852.1	848.1	117.5°	209.0	208.0	209.0	210.0	212.5
743.3	772.3	795.2	811.9	811.5	815.8	808.2	120°	243.0	243.0	244.0	245.0	247.5
715.4	743.7	764.0	763.3	758.2	745.5	743.3	122.5°	277.0	276.0	277.0	278.0	280.5
693.3	708.2	713.2	712.1	697.6	690.4	689.3	125°	310.0	310.0	310.0	310.0	312.5
682.4	681.7	670.1	657.4	643.6	642.9	633.5	127.5°	347.0	345.0	345.5	346.0	346.0
684.2	660.7	639.3	617.5	602.6	599.4	600.5	130°	380.0	379.0	380.0	381.0	381.0
707.1	665.4	625.1	603.0	585.6	580.5	582.7	132.5°	415.0	414.0	414.0	414.0	415.0
735.7	679.9	629.8	596.1	582.0	575.8	576.9	135°	451.0	450.0	448.5	447.0	447.5
754.9	696.5	645.4	603.7	584.5	578.7	582.3	137.5°	482.0	481.0	478.5	476.0	475.5
779.6	719.4	666.5	623.3	594.7	587.0	589.6	140°	511.0	509.0	506.5	504.0	503.0
803.9	744.0	696.2	647.2	612.4	598.3	602.3	142.5°	536.0	534.0	533.5	533.0	533.0
830.0	772.7	724.5	679.9	638.9	616.8	621.9	145°	560.0	558.0	559.5	561.0	561.5
860.4	806.1	764.7	723.7	681.7	663.2	665.4	147.5°	585.0	583.0	584.5	586.0	585.5
889.8	838.7	812.2	781.8	757.1	728.8	728.8	150°	610.0	606.0	604.5	603.0	601.5
907.2	881.1	873.9	865.2	850.7	830.3	826.0	152.5°	628.0	623.0	620.5	618.0	616.0
928.6	931.5	948.2	965.6	969.9	950.0	943.8	155°	641.0	638.0	637.0	636.0	633.5
968.9	999.3	1054.1	1101.6	1111.0	1127.3	1108.5	157.5°	655.0	650.0	650.0	650.0	649.0
1025.4	1081.6	1174.1	1251.7	1273.8	1275.3	1276.7	160°	666.0	660.0	660.5	661.0	662.5
1090.0	1170.5	1292.7	1385.1	1424.6	1435.2	1427.5	162.5°	674.0	668.0	669.0	670.0	670.5
1200.6	1273.4	1407.2	1507.0	1557.7	1582.4	1575.8	165°	682.0	678.0	679.0	680.0	678.5
1310.1	1400.7	1518.6	1616.8	1670.8	1698.4	1704.2	167.5°	694.0	688.0	688.0	688.0	686.0
1384.8	1469.6	1578.4	1669.0	1722.3	1755.3	1758.2	170°	701.0	696.0	695.0	694.0	691.5
1430.4	1508.0	1614.3	1694.1	1747.4	1775.3	1785.4	172.5°	701.0	696.0	695.0	694.0	693.0
1569.0	1583.1	1655.6	1708.2	1745.5	1758.2	1765.8	175°	699.0	694.0	695.0	696.0	695.5
1633.9	1574.8	1566.4	1599.1	1602.3	1594.0	1583.5	177.5°	702.0	698.0	699.5	701.0	700.0
1543.6	1405.4	1354.3	1349.9	1336.5	1331.1	1297.7	180°	700.0	700.0	700.0	700.0	700.0
1340.5	1141.5	1051.2	1002.2	1032.0	1030.9	996.8						
1129.5	926.8	809.7	739.3	730.6	729.2	699.4						
917.4	727.4	624.8	590.7	549.7	537.4	542.4						
661.4	519.2	497.5	523.6	526.9	517.4	510.9						
416.6	390.5	411.5	459.0	487.0	474.6	479.4						
347.4	307.5	308.9	359.0	377.8	380.7	370.9						
385.4	307.8	252.4	246.2	239.7	150.8	209.9						
347.4	238.2	140.3	115.7	71.1	41.0	42.4						
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°	711.8	711.8	711.8	711.8	711.8	711.8
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	792.6	785.7	778.1	768.0	769.8	757.5
182.0	180.5	179.0	176.5	174.0	171.0	5°	834.3	822.4	806.1	785.4	766.2	741.5
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	830.0	810.8	783.6	752.4	727.0	691.5
250.0	248.0	246.0	244.5	243.0	240.0	10°	792.6	767.6	745.5	713.2	680.2	649.0
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	740.4	726.3	707.1	682.8	650.9	619.0
315.0	314.0	313.0	311.5	310.0	307.5	15°	683.5	684.6	673.0	666.5	650.5	625.1
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	636.7	647.6	653.8	663.9	665.7	653.4
381.0	379.0	377.0	374.5	372.0	371.0	20°	605.5	620.8	640.0	667.9	697.3	710.0
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	588.1	607.0	637.8	688.6	742.2	774.5
448.0	445.5	443.0	440.0	437.0	436.0	25°	584.9	609.9	653.0	715.0	784.7	830.0
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	590.3	622.9	674.1	744.8	813.3	878.9
502.0	501.0	500.0	498.5	497.0	494.0	30°	607.7	645.8	701.6	777.8	848.8	914.1
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	624.4	671.5	733.2	807.5	878.9	943.8
562.0	559.0	556.0	553.5	551.0	550.5	35°	651.2	698.7	761.8	830.3	899.6	973.2
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	692.2	733.9	784.3	848.1	920.3	996.4
600.0	598.5	597.0	595.0	593.0	593.0	40°	750.6	778.1	810.8	861.2	930.4	1012.0
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	838.0	843.8	855.0	881.1	939.5	1030.1
631.0	628.5	626.0	627.0	628.0	629.0	45°	950.7	933.3	923.5	919.9	959.8	1041.7
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	1081.6	1047.5	1008.4	989.5	999.0	1060.2
664.0	661.0	658.0	656.5	655.0	655.0	50°	1252.0	1196.6	1119.7	1065.3	1060.6	1114.6
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	1408.3	1335.8	1239.0	1174.8	1148.7	1216.2
677.0	674.5	672.0	672.5	673.0	673.0	55°	1555.9	1500.1	1390.6	1310.8	1301.7	1350.7
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	1685.4	1637.1	1547.6	1443.5	1447.1	1494.6
689.0	687.5	686.0	688.5	691.0	692.0	59°	1752.4	1712.2	1629.1	1523.3	1531.2	1596.5
692.0	690.5	689.0	689.5	690.0	690.0	60°	1776.4	1742.6	1663.6	1574.4	1584.5	1652.4
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	1774.5	1752.8	1695.5	1653.4	1705.3	1755.0
699.0	696.5	694.0	694.5	695.0	696.0	65°	1605.2	1572.2	1565.7	1639.3	1739.4	1787.2
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	1276.7	1292.3	1354.3	1480.8	1648.7	1718.3
						70°	948.2	975.7	1058.4	1217.2	1447.8	1568.2
						72.5°	697.3	724.8	801.0	975.0	1191.1	1297.7
						75°	547.2	555.5	610.3	746.9	938.8	1026.1
						77.5°	505.5	480.4	458.0	531.2	633.1	708.2
						80°	470.7	423.2	370.2	392.3	417.0	496.8
						82.5°	365.5	334.0	292.6	320.9	332.5	335.0
						85°	213.9	190.4	241.1	341.6	337.9	295.9
						87.5°	75.4	97.9	110.2	189.3	228.8	198.0
						90°	8.0	9.1	11.3	11.1	12.4	7.8
						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°
711.8	711.8	711.8	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
747.7	737.5	736.8	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
721.9	699.1	691.8	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
660.7	634.2	628.7	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
609.2	579.8	574.7	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
582.7	554.8	548.6	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
592.8	562.0	558.8	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
630.9	598.3	599.7	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
696.2	675.2	670.1	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
781.8	758.9	752.4	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
854.6	843.0	838.7	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
907.2	912.7	908.3	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
949.3	967.4	965.2	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
992.4	1027.6	1029.1	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
1024.3	1086.3	1099.0	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
1065.3	1148.3	1161.4	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
1096.5	1194.0	1210.0	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
1127.0	1231.7	1249.1	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
1152.0	1269.1	1286.9	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
1180.3	1305.3	1322.8	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
1231.0	1362.3	1382.9	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
1340.2	1467.8	1497.2	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
1497.9	1613.6	1636.8	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
1640.0	1712.5	1718.7	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
1698.4	1739.7	1737.9	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
1741.2	1746.3	1736.1	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
1764.4	1716.2	1698.8	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
1703.8	1636.8	1613.9	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
1529.1	1493.5	1467.4	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
1300.6	1210.7	1193.7								
985.9	867.3	842.0								
688.9	546.8	512.3								
452.9	351.0	337.9								
293.7	233.1	229.2								
204.9	153.0	141.1								
125.8	51.1	49.0								
39.2	23.6	21.0								
6.1	6.5	6.5								
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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