

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: P227286

Luminaire Tested: **ISW-AF-350-LED-E1-SLR-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227286
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-8030-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, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3494.3 lumens
Efficiency: N/A
Efficacy: 95.0 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

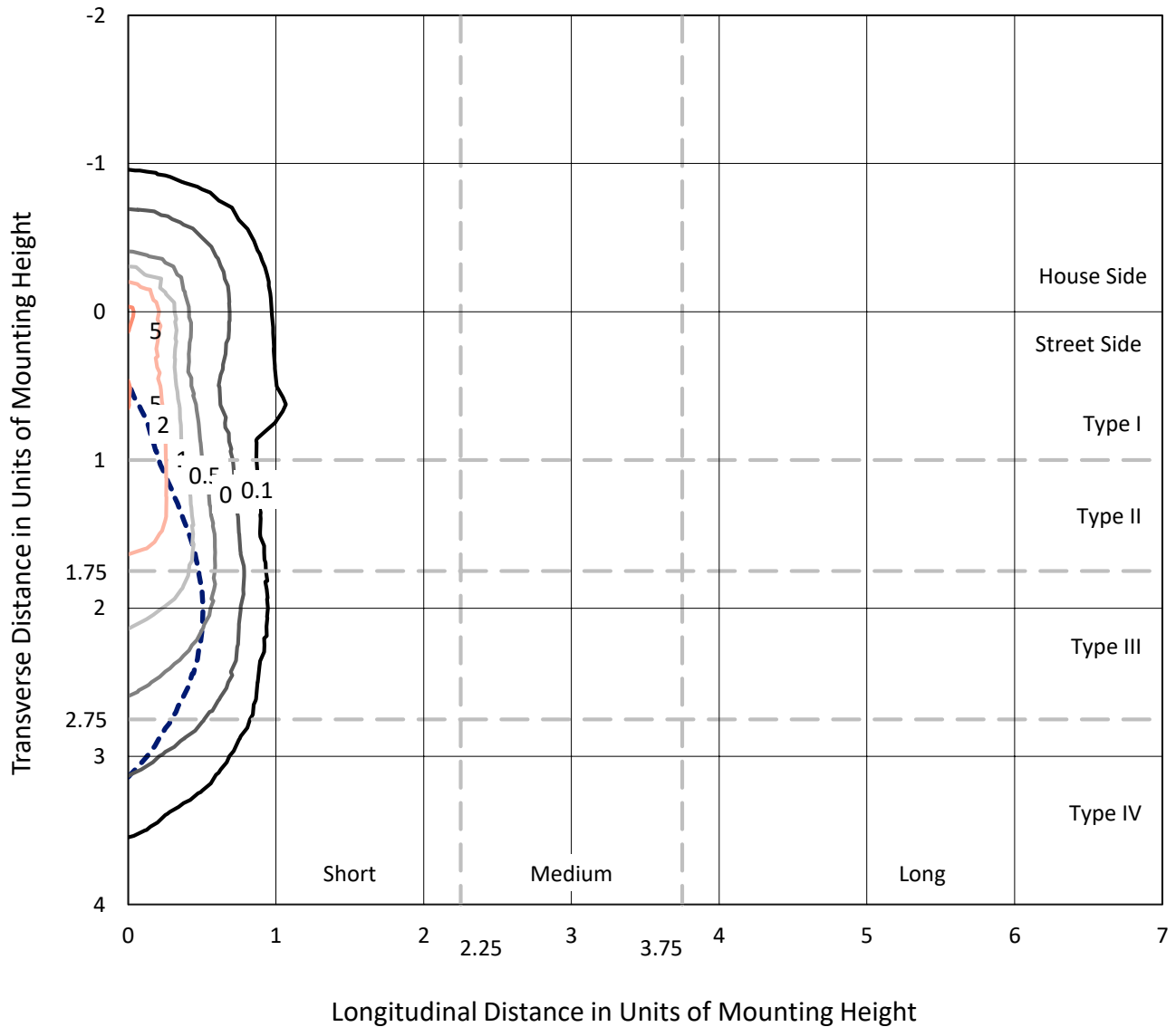


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Iso-Footcandle Lines of Horizontal Illumination

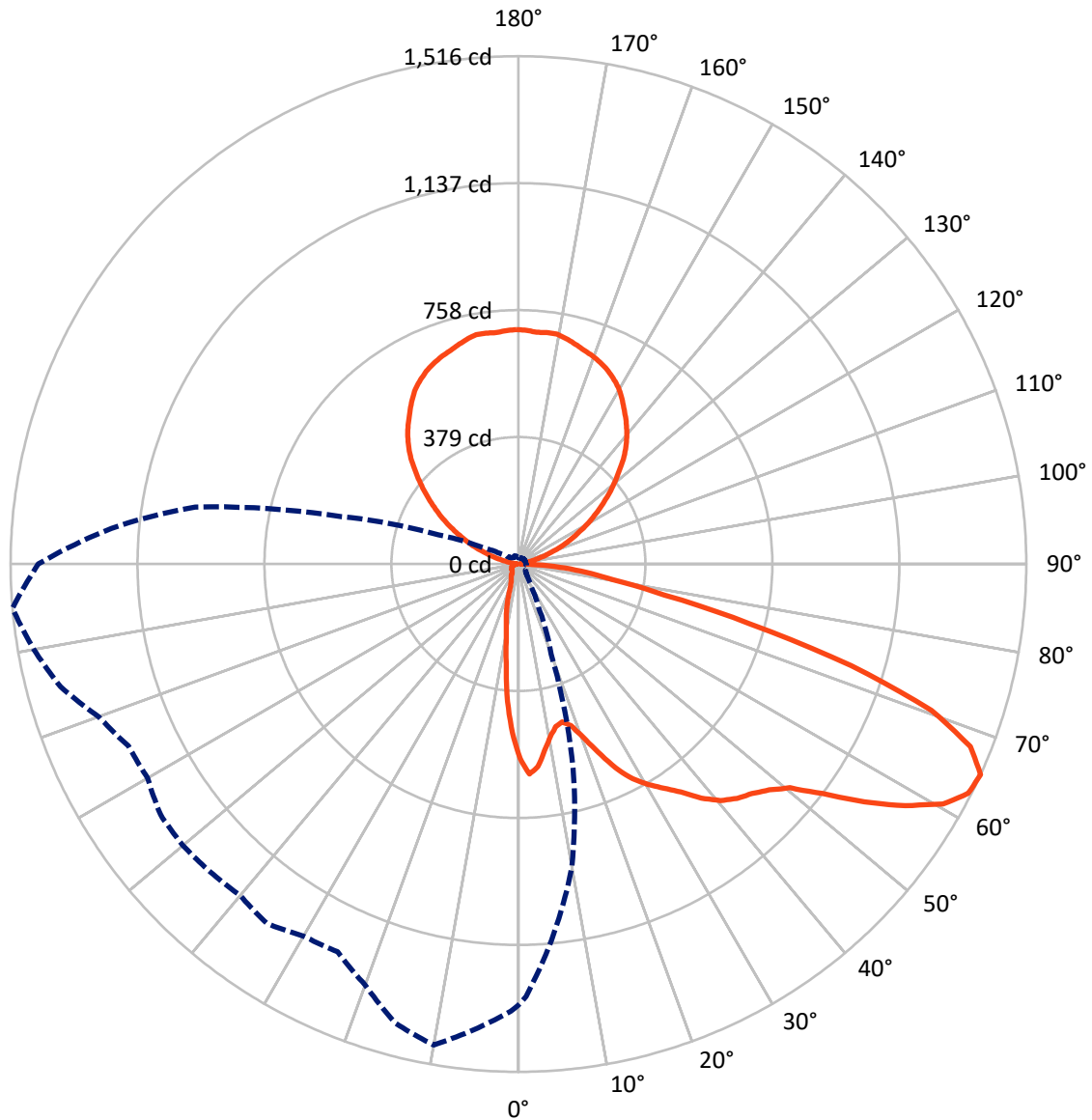
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 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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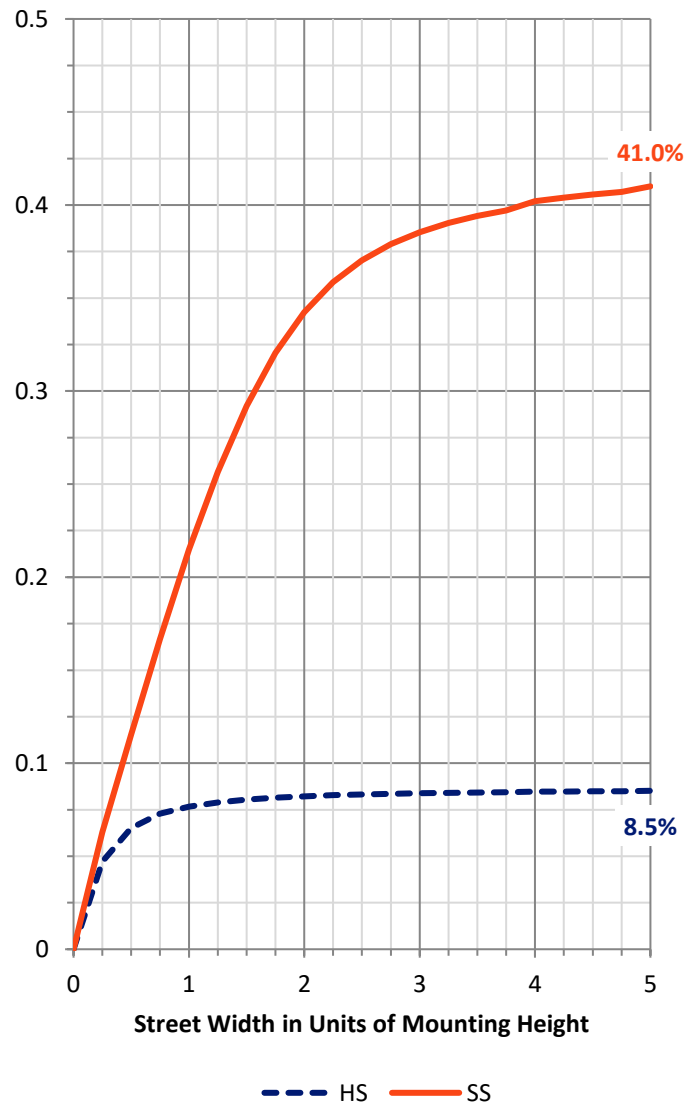
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	302.1	867.6	1169.7
	% Fixture	8.6	24.8	33.5
Street Side	Lumens	1457.0	867.6	2324.6
	% Fixture	41.7	24.8	66.5
Total	Lumens	1759.1	1735.2	3494.3
	% Fixture	50.3	49.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.2
10°-20°	82.8	2.4
20°-30°	118.1	3.4
30°-40°	171.3	4.9
40°-50°	245.0	7.0
50°-60°	376.2	10.8
60°-70°	435.4	12.5
70°-80°	222.1	6.4
80°-90°	65.1	1.9
90°-100°	9.3	0.3
100°-110°	57.4	1.6
110°-120°	166.1	4.8
120°-130°	273.2	7.8
130°-140°	336.8	9.6
140°-150°	344.6	9.9
150°-160°	290.3	8.3
160°-170°	191.2	5.5
170°-180°	66.3	1.9
0°-90°	1759.1	50.3
0°-180°	3494.3	100.0



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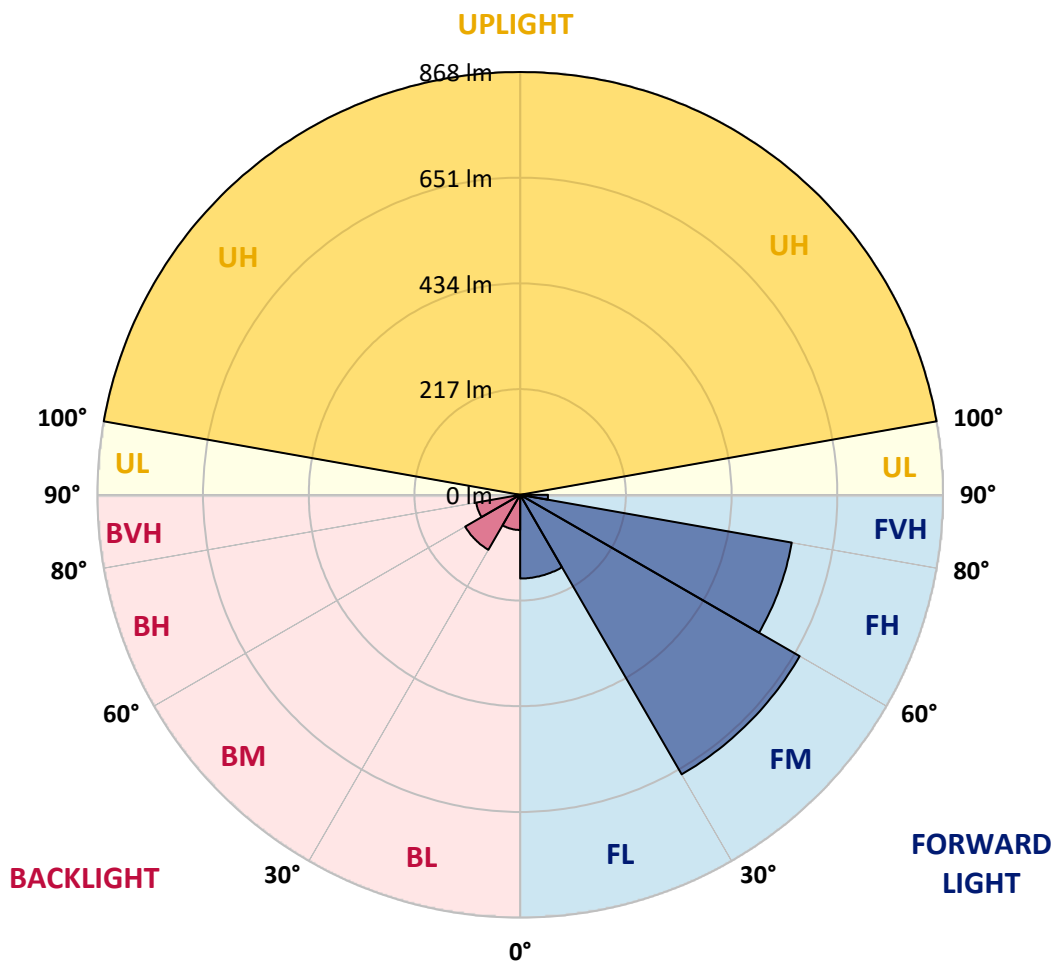
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	171.7	4.9			
FM (30°-60°)	662.3	19.0			
FH (60°-80°)	565.8	16.2			G0/660
FVH (80°-90°)	57.2	1.6			G1/100
BL (0°-30°)	72.2	2.1	B0/110		
BM (30°-60°)	130.2	3.7	B0/220		
BH (60°-80°)	91.7	2.6	B0/110		G0/110
BVH (80°-90°)	8.0	0.2			G0/10
UL (90°-100°)	9.3	0.3		U1/10	
UH (100°-180°)	867.6	24.8		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°	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8
2.5°	601.2	597.7	593.2	585.5	578.7	569.0	566.6	554.5	546.8	548.6	534.7
5°	564.5	562.5	551.5	534.4	523.1	500.9	488.2	481.7	463.3	461.0	455.9
7.5°	513.1	506.8	489.1	467.8	448.6	432.3	411.9	396.2	382.3	373.7	358.6
10°	469.0	462.5	443.2	417.2	394.1	371.3	354.8	334.3	314.5	299.1	287.0
12.5°	447.7	440.6	418.1	387.9	362.2	333.8	310.4	290.3	279.3	271.6	261.6
15°	455.9	445.6	418.7	382.6	350.6	320.4	295.6	274.0	261.0	249.1	237.3
17.5°	489.4	476.7	445.9	402.4	358.0	319.0	283.5	258.9	238.2	220.4	204.5
20°	546.8	537.3	492.6	431.7	374.0	319.8	273.1	240.8	215.7	193.2	171.9
22.5°	613.9	599.7	556.0	471.3	394.4	325.2	266.6	225.8	195.9	165.7	142.6
25°	684.4	673.4	615.4	524.6	425.8	336.1	261.6	212.4	172.5	139.1	113.6
27.5°	741.2	731.4	674.0	575.8	454.5	345.6	254.2	199.7	153.9	113.6	85.5
30°	787.6	779.3	719.3	617.8	489.4	348.8	243.8	184.9	133.1	91.7	70.7
32.5°	839.7	830.5	762.8	647.1	505.1	345.9	232.0	171.0	116.6	81.1	60.7
35°	896.8	886.2	811.3	678.7	518.1	335.5	221.9	161.0	108.6	73.7	53.9
37.5°	947.7	940.9	855.1	710.1	532.9	318.4	212.1	150.0	103.3	68.3	48.5
40°	987.3	985.6	903.6	736.1	544.4	305.9	204.2	141.4	96.5	66.3	46.7
42.5°	1019.3	1018.7	943.3	759.5	547.4	295.0	197.9	133.7	90.2	61.2	47.6
45°	1050.1	1049.8	981.7	792.1	549.4	295.6	193.2	129.0	84.9	58.0	45.0
47.5°	1079.4	1083.8	1022.0	837.3	571.3	305.6	191.4	124.6	80.8	54.4	42.6
50°	1128.5	1124.0	1085.6	898.6	606.6	325.2	188.5	120.7	76.9	51.2	40.2
52.5°	1221.7	1216.7	1182.3	980.5	645.0	345.3	184.6	115.4	72.5	47.6	37.6
55°	1335.6	1342.4	1294.8	1080.3	697.4	362.2	180.5	108.3	66.6	43.5	35.8
57.5°	1402.5	1396.8	1342.4	1137.7	729.6	370.7	177.8	100.0	57.4	39.9	34.0
59°	1418.1	1408.7	1334.4	1147.4	738.2	366.6	176.3	92.0	52.7	38.2	33.1
60°	1416.7	1405.1	1321.7	1141.2	740.6	361.6	174.0	87.3	50.0	37.3	32.8
62.5°	1386.2	1368.1	1249.5	1066.1	707.4	336.4	164.2	76.0	46.5	36.1	31.1
65°	1317.0	1291.5	1128.2	919.3	631.4	286.4	142.0	71.9	47.3	35.5	29.9
67.5°	1197.4	1177.0	972.3	760.7	503.3	231.4	122.8	70.1	48.5	36.1	28.1
70°	974.0	956.6	758.6	569.6	377.0	184.0	111.5	69.2	47.6	34.6	26.6
72.5°	687.0	656.9	504.2	398.8	239.1	147.9	96.8	65.4	46.5	33.4	24.3
75°	418.1	423.7	320.4	290.6	150.9	101.5	76.0	55.0	41.1	29.9	21.9
77.5°	275.8	275.5	236.4	205.0	76.6	63.0	53.9	42.3	32.3	24.6	18.9
80°	187.0	189.1	171.6	140.0	42.6	37.9	35.2	30.8	23.7	18.6	15.7
82.5°	115.1	115.4	132.8	104.7	28.4	24.0	22.5	20.7	16.9	14.5	12.1
85°	39.9	40.8	46.5	74.0	19.2	15.7	15.7	14.5	12.7	9.8	8.0
87.5°	17.2	16.9	20.1	20.1	9.5	8.0	7.4	7.4	7.1	5.3	4.4
90°	6.2	5.9	5.9	7.2	8.5	9.6	9.8	10.1	10.1	9.3	8.2
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: ISW-AF-350-LED-E1-SLR-8030-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°	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8
2.5°	530.5	527.3	518.1	515.7	518.7	512.8	511.3	509.8	498.9	504.5	498.0
5°	443.5	442.6	424.0	427.8	424.0	417.5	414.8	421.0	410.1	412.5	413.9
7.5°	340.9	337.3	324.9	316.6	311.6	307.1	301.5	292.3	299.4	298.0	309.2
10°	276.6	269.0	261.3	249.7	243.2	237.0	230.5	226.9	218.7	217.8	213.9
12.5°	253.6	242.6	232.9	222.8	216.0	203.6	193.2	186.7	181.4	173.1	166.9
15°	222.8	213.6	200.9	191.1	180.5	169.2	159.2	150.9	147.1	139.4	135.8
17.5°	191.7	177.8	162.4	152.7	137.9	126.3	118.1	112.7	107.1	102.4	98.2
20°	154.4	136.4	119.8	107.4	95.9	84.6	80.8	74.3	71.9	70.1	71.6
22.5°	117.5	98.8	81.7	72.2	66.0	63.0	59.8	58.6	57.7	57.4	58.0
25°	86.1	70.4	62.1	58.6	56.2	54.4	53.3	52.4	51.8	51.5	51.8
27.5°	66.6	58.3	54.1	51.8	50.0	48.8	48.2	47.3	47.0	46.7	47.0
30°	57.7	53.3	50.3	47.9	45.9	43.8	42.9	42.6	42.9	43.2	42.9
32.5°	50.3	47.0	43.8	41.7	40.2	39.1	39.1	38.5	38.5	39.4	39.6
35°	45.6	42.3	39.9	37.3	35.5	34.3	33.4	32.8	33.1	33.1	34.0
37.5°	41.7	39.4	37.3	34.9	33.1	32.0	31.4	30.8	30.5	30.2	30.2
40°	39.1	37.6	35.8	33.4	31.7	30.5	29.9	29.3	29.0	28.7	28.7
42.5°	39.1	36.1	34.9	32.8	30.8	29.6	28.7	28.1	27.5	27.5	27.5
45°	42.9	37.0	34.9	32.5	30.5	29.0	28.1	27.2	26.6	26.6	26.3
47.5°	41.7	41.4	35.5	32.5	30.8	29.0	27.8	26.9	26.3	26.0	25.7
50°	39.6	43.2	39.6	33.4	30.8	28.7	27.5	26.6	25.7	25.4	25.4
52.5°	38.5	40.2	41.1	34.6	31.1	28.7	27.2	26.3	25.7	25.1	24.9
55°	35.5	37.9	39.4	34.0	31.1	28.1	26.6	25.7	24.9	24.6	24.3
57.5°	32.5	34.3	37.9	34.0	30.2	27.8	26.0	24.9	24.3	24.0	23.7
59°	31.7	31.7	33.7	34.9	29.6	27.5	25.7	24.6	24.0	23.7	23.1
60°	30.8	30.8	32.0	35.8	29.3	27.2	25.4	24.3	23.4	23.4	23.1
62.5°	29.6	28.7	29.3	33.4	28.4	26.6	24.9	23.7	22.8	22.8	22.5
65°	28.1	26.9	26.9	27.8	26.6	25.4	24.3	23.1	21.9	21.9	22.2
67.5°	26.6	25.4	25.1	25.1	24.6	24.3	23.1	21.9	21.3	21.3	21.3
70°	24.6	23.7	23.4	22.8	22.8	22.5	21.6	20.7	20.1	20.4	20.1
72.5°	22.2	21.6	21.0	21.0	20.7	20.4	19.5	18.9	18.6	18.9	18.9
75°	19.8	18.9	18.9	18.3	18.3	18.0	17.2	16.9	16.6	16.9	17.2
77.5°	16.9	16.3	16.0	16.0	16.0	16.0	14.8	14.5	14.5	15.1	15.1
80°	13.9	13.6	13.3	13.3	13.3	13.0	12.4	12.1	12.1	12.4	12.7
82.5°	10.7	10.1	10.1	10.4	10.7	10.7	9.8	9.2	9.2	9.8	10.4
85°	7.1	7.1	7.1	7.4	7.4	7.7	7.1	6.2	6.5	6.8	7.7
87.5°	3.8	4.1	3.8	3.6	4.1	3.8	3.8	3.6	3.8	4.1	4.4
90°	8.2	8.2	8.9	9.6	9.3	9.6	8.6	7.9	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



REPORT NUMBER: P227286

CATALOG NUMBER: ISW-AF-350-LED-E1-SLR-8030-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



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CATALOG NUMBER: ISW-AF-350-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8
2.5°	503.9	498.9	496.2	506.5	505.7	496.8	496.8	503.0	503.3	498.0	504.2
5°	415.7	410.7	415.4	411.3	413.6	413.3	416.9	410.4	413.0	410.7	405.1
7.5°	308.3	318.4	323.7	316.9	325.5	329.9	323.7	329.9	320.1	312.2	319.8
10°	212.1	223.4	221.3	232.3	236.4	238.8	243.2	237.6	230.8	228.7	223.1
12.5°	164.5	162.1	161.3	165.7	168.4	164.5	167.8	164.2	160.7	154.4	154.2
15°	128.7	124.9	122.2	117.2	115.4	116.3	117.8	117.8	110.7	111.0	113.6
17.5°	97.6	96.8	94.7	90.5	87.9	88.8	88.5	87.0	86.1	86.7	89.9
20°	73.4	72.5	73.7	74.9	74.0	74.3	73.1	71.6	71.0	71.6	72.2
22.5°	58.0	59.2	60.7	62.4	62.7	64.2	63.9	64.2	63.0	62.4	61.0
25°	53.0	53.6	52.7	53.0	53.0	54.4	54.1	54.1	53.0	52.7	53.0
27.5°	46.7	46.5	46.5	47.0	47.0	47.9	48.5	47.9	46.7	46.5	46.7
30°	43.2	42.9	42.6	42.9	42.6	42.9	43.5	43.5	42.9	42.0	42.3
32.5°	39.6	39.6	39.4	39.6	39.4	39.4	39.9	39.1	39.1	38.8	38.8
35°	34.9	35.5	36.1	36.4	36.4	36.4	37.0	36.1	35.8	35.5	35.5
37.5°	30.2	30.8	32.5	33.4	33.7	34.3	34.6	34.0	33.4	32.8	32.3
40°	28.7	28.7	29.3	30.5	31.7	32.0	32.5	31.7	31.4	30.5	29.6
42.5°	27.5	27.8	27.8	28.1	28.4	29.0	29.9	29.0	28.4	27.8	26.9
45°	26.6	26.6	26.6	26.6	26.3	26.3	26.6	26.0	25.7	25.4	25.4
47.5°	26.0	25.7	25.4	25.1	24.9	24.6	24.6	24.0	24.0	24.0	24.0
50°	25.4	24.9	24.6	24.3	23.7	23.7	23.7	23.1	22.8	22.8	23.1
52.5°	24.6	24.3	24.0	23.7	23.4	23.1	23.1	22.5	22.2	22.2	22.2
55°	24.3	24.0	23.4	23.1	22.8	23.1	22.8	22.5	21.9	21.9	21.9
57.5°	23.4	23.7	23.4	22.8	22.8	22.8	22.8	22.2	21.9	21.3	21.6
59°	23.1	23.4	23.1	22.8	22.5	22.8	22.8	21.9	21.6	21.3	21.3
60°	22.8	23.1	22.8	22.5	22.5	22.8	22.5	22.2	21.6	20.7	21.0
62.5°	22.5	22.5	22.2	22.2	21.9	22.2	21.9	21.3	20.7	20.1	19.8
65°	21.9	21.9	21.6	21.6	21.3	21.3	21.3	20.7	20.1	19.5	19.5
67.5°	21.6	21.3	21.0	21.0	20.7	20.7	20.7	20.1	19.2	18.9	18.6
70°	20.4	20.1	20.1	19.8	19.5	19.8	20.1	19.2	18.3	17.8	17.5
72.5°	19.2	18.9	18.9	18.6	18.6	18.9	19.2	18.3	17.2	16.6	16.3
75°	17.5	17.2	17.2	17.2	17.2	17.8	17.8	16.9	16.0	15.1	14.5
77.5°	15.1	15.4	15.4	15.4	15.4	16.0	16.0	15.4	14.5	13.9	13.0
80°	13.0	13.0	13.3	13.3	13.6	13.6	13.3	13.0	12.7	12.1	10.9
82.5°	10.9	10.9	10.9	10.9	10.9	10.7	10.1	10.7	10.7	10.1	9.2
85°	8.6	8.6	8.6	8.9	8.9	8.0	7.1	7.1	8.0	7.7	7.1
87.5°	5.0	5.0	5.3	6.2	5.6	5.3	4.4	4.7	4.4	5.0	4.1
90°	10.2	9.9	9.9	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°
580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	110°	80.5
504.8	506.0	508.6	507.7	517.5	514.5	521.3	530.5	539.1	534.9	536.1	112.5°	113.5
415.1	416.6	405.4	412.2	422.2	418.1	416.6	430.2	427.0	442.3	429.6	115°	153.0
307.4	303.9	298.5	295.9	288.5	288.5	302.4	308.6	307.7	318.4	329.3	117.5°	193.0
216.0	211.8	205.3	203.6	211.0	214.5	220.7	226.9	235.2	247.4	254.5	120°	229.5
158.6	157.1	158.6	163.0	169.8	174.9	184.3	195.3	204.5	214.2	223.7	122.5°	264.0
119.8	122.8	126.6	129.6	134.9	144.4	149.4	161.6	169.8	178.4	189.4	125°	297.5
93.2	95.0	95.9	97.0	101.5	108.3	108.3	120.7	131.7	142.9	152.1	127.5°	331.0
71.0	71.0	68.1	69.8	70.4	69.8	73.4	80.5	87.6	95.0	109.5	130°	364.0
59.5	57.7	56.8	56.5	56.8	58.0	60.1	62.7	63.9	67.2	72.8	132.5°	397.0
52.7	52.4	51.5	51.5	52.1	52.4	54.4	56.8	57.4	58.3	60.4	135°	429.0
46.5	47.0	47.9	47.6	47.9	48.5	50.0	52.1	53.3	53.6	55.0	137.5°	459.5
42.0	42.6	42.9	43.8	43.8	44.1	45.3	47.3	48.2	49.7	51.2	140°	488.0
39.1	39.4	39.6	39.4	39.6	39.6	41.1	43.2	44.4	45.3	46.2	142.5°	517.5
35.8	35.5	35.5	35.5	34.6	34.3	34.9	37.0	37.3	38.2	40.2	145°	545.5
32.0	31.1	30.5	30.5	30.5	30.8	32.3	34.3	34.6	35.5	37.3	147.5°	572.5
28.4	28.1	28.1	28.4	28.7	29.3	30.5	32.5	32.8	33.7	35.2	150°	593.0
26.6	26.6	26.6	26.9	27.2	27.5	29.0	31.1	31.7	32.5	34.3	152.5°	608.5
25.4	25.7	25.4	25.4	25.7	26.3	27.8	30.2	31.1	32.0	33.7	155°	626.0
24.6	24.6	24.6	24.9	24.9	25.4	27.2	29.6	30.2	31.4	34.0	157.5°	643.5
23.4	24.0	23.7	24.0	24.3	24.9	26.6	29.0	29.9	31.7	34.6	160°	657.5
22.8	22.8	22.8	23.1	23.7	24.0	25.4	28.1	29.3	31.7	36.4	162.5°	667.0
22.5	21.9	21.9	22.2	22.8	23.4	24.9	27.5	29.0	31.4	36.1	165°	676.0
22.2	21.3	21.0	21.3	21.9	22.2	24.0	26.6	28.7	30.5	34.9	167.5°	685.0
21.3	20.7	20.4	20.7	21.3	21.9	23.4	26.0	27.5	29.9	33.4	170°	692.0
21.0	20.1	20.1	20.4	21.0	21.3	22.8	25.4	26.9	30.2	34.3	172.5°	694.0
19.8	19.5	19.5	19.8	19.8	20.4	22.2	24.9	26.0	30.8	28.7	175°	696.0
18.9	18.9	18.9	18.9	19.2	19.5	21.6	24.3	24.9	26.6	24.6	177.5°	699.5
18.3	18.3	18.3	18.3	18.3	18.9	20.7	23.4	23.7	23.4	22.5	180°	700.0
17.2	17.2	17.2	17.2	17.5	17.8	19.5	21.9	21.9	21.3	21.3		
16.3	16.0	16.0	16.0	16.0	16.3	18.0	20.4	20.1	19.8	19.8		
14.5	14.5	14.5	14.5	14.5	14.5	16.3	18.6	18.3	18.0	17.8		
12.7	12.7	13.0	12.7	12.4	12.1	13.9	16.6	16.6	16.3	16.0		
10.9	10.7	10.9	10.7	10.1	10.1	11.5	13.9	14.2	13.9	13.3		
8.9	8.6	8.6	8.6	7.4	7.4	8.9	11.2	11.2	10.9	10.4		
6.8	6.5	6.2	5.9	5.0	5.0	6.2	8.3	8.6	7.4	7.1		
3.6	3.6	3.6	2.7	2.4	2.1	3.3	5.0	5.0	4.1	3.6		
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		

'227286
 ISW-AF-350-LED-E1-SLR-8030-ULG

REPORT NUMBER: P227286
 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°	580.8	580.8
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	543.5	546.2
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	439.1	449.4
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	332.0	345.9
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	266.0	275.5
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	233.4	247.1
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	200.3	215.1
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	164.2	182.3
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	125.5	143.2
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	88.2	103.3
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	64.2	71.0
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	57.1	59.8
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	53.6	55.3
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	48.2	50.0
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	42.3	44.7
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	39.4	41.1
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	37.6	37.9
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	36.1	36.1
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	35.2	36.1
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	35.8	39.6
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	40.2	39.1
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	41.1	36.7
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	37.6	35.2
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	33.7	30.8
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	30.2	28.4
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	28.1	27.5
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	25.7	26.3
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	24.0	25.1
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	23.1	24.0
										70°	21.6	22.2
										72.5°	20.1	20.4
										75°	18.0	18.3
										77.5°	16.0	16.0
										80°	13.0	13.0
										82.5°	10.1	9.8
										85°	6.5	6.2
										87.5°	3.0	2.4
										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



REPORT NUMBER: P227286

CATALOG NUMBER: ISW-AF-350-LED-E1-

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tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	110°	102.0	108.0	114.0
559.5	567.8	574.3	573.1	587.0	595.3	596.5	605.1	613.4	112.5°	134.0	138.5	143.0
457.7	469.3	480.5	488.8	510.7	528.7	542.6	557.4	574.9	115°	168.0	171.0	174.0
364.8	374.6	392.9	406.2	429.3	450.3	470.7	494.1	513.9	117.5°	202.0	203.5	205.0
285.8	298.2	315.4	340.3	361.0	384.9	410.7	432.9	466.0	120°	237.0	240.0	243.0
256.8	264.5	278.7	290.6	316.3	341.7	370.7	401.2	431.7	122.5°	271.0	274.0	277.0
226.9	240.5	253.9	271.0	293.5	321.3	352.7	385.5	419.9	125°	305.0	307.5	310.0
197.9	216.0	230.5	249.1	274.3	309.5	350.3	391.2	431.4	127.5°	339.0	339.5	340.0
162.4	179.3	204.7	223.7	256.5	300.6	353.0	409.5	463.9	130°	370.0	371.0	372.0
127.8	145.9	174.9	203.0	239.1	295.9	363.6	439.7	512.5	132.5°	404.0	404.5	405.0
91.4	116.0	144.7	180.2	224.0	292.9	378.1	477.0	574.9	135°	435.0	436.0	437.0
68.3	85.5	120.4	159.2	207.1	287.6	393.5	511.6	617.5	137.5°	464.0	466.0	468.0
61.0	73.1	95.9	136.7	186.4	277.2	405.1	544.4	656.3	140°	491.0	494.0	497.0
53.3	62.7	80.8	115.4	167.8	261.3	410.1	561.9	683.2	142.5°	521.0	523.0	525.0
46.7	55.6	74.0	107.1	158.3	243.2	409.2	579.3	716.9	145°	550.0	550.5	551.0
42.6	50.3	71.0	105.0	150.9	226.6	410.1	607.4	766.9	147.5°	574.0	574.5	575.0
39.4	48.2	68.6	100.6	147.3	217.5	413.6	632.3	809.8	150°	593.0	593.0	593.0
39.4	47.6	62.7	94.4	145.6	218.4	415.1	651.5	841.8	152.5°	610.0	610.0	610.0
41.4	44.7	58.3	90.8	146.8	224.9	413.3	671.1	872.8	155°	630.0	629.0	628.0
39.4	41.7	55.3	90.2	146.8	229.6	418.7	695.3	913.7	157.5°	646.0	645.5	645.0
37.3	38.8	54.4	89.4	143.8	234.0	440.6	740.6	966.9	160°	655.0	655.0	655.0
34.6	36.4	53.3	87.9	140.5	239.7	479.3	816.6	1055.1	162.5°	661.0	662.0	663.0
31.4	34.9	51.5	85.5	138.5	249.7	519.0	893.6	1160.1	165°	673.0	673.0	673.0
30.2	33.4	47.3	79.9	136.4	260.7	561.3	967.2	1254.5	167.5°	688.0	686.5	685.0
29.3	32.3	43.8	75.7	134.6	266.0	574.0	995.3	1290.9	170°	693.0	692.0	691.0
28.7	31.7	41.7	72.2	132.6	266.3	583.2	1006.0	1296.2	172.5°	690.0	690.0	690.0
27.8	30.5	37.6	64.8	126.0	266.0	584.1	1012.8	1280.9	175°	691.0	690.5	690.0
26.3	29.3	37.9	61.0	114.2	253.6	547.4	980.0	1219.6	177.5°	697.0	696.0	695.0
25.1	28.4	39.9	61.8	101.8	221.6	478.7	877.9	1088.5	180°	700.0	700.0	700.0
23.4	27.8	41.7	63.9	98.2	184.0	362.2	716.9	911.6				
21.6	27.5	43.2	65.4	94.4	151.5	250.9	508.3	682.3				
19.5	25.1	39.4	55.6	78.1	110.1	161.6	332.6	470.4				
16.9	20.1	28.7	39.1	57.4	76.9	95.6	200.9	307.7				
13.9	15.1	20.4	25.1	38.2	45.6	53.0	113.3	215.1				
10.4	10.7	13.9	16.0	21.6	25.1	31.7	69.5	174.3				
5.9	6.8	9.5	10.7	13.0	16.0	20.7	44.4	136.7				
2.4	3.0	5.6	6.2	7.1	8.9	11.5	25.7	42.6				
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: ISW-AF-350-LED-E1-SLR-8030-

SLR-8030-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°	580.8	580.8	580.8	580.8
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	621.6	627.9	633.2	637.3
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	593.5	608.0	625.5	640.3
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	543.5	561.9	590.3	607.7
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	496.2	523.1	554.2	579.3
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	463.9	497.4	527.0	555.1
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	455.1	489.1	515.7	541.5
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	472.8	506.8	529.6	545.3
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	514.5	550.9	565.4	564.2
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	571.6	609.8	609.8	598.0
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	647.1	674.6	659.5	637.0
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	700.6	726.4	700.1	663.1
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	745.0	764.0	730.5	685.8
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	784.1	798.0	753.9	709.8
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	830.8	835.9	778.2	731.1
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	882.6	886.7	813.1	754.5
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	943.6	928.8	838.8	776.1
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	981.1	956.9	857.5	787.3
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	1010.7	977.6	866.0	793.8
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	1047.1	1008.1	881.1	805.7
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	1095.0	1050.4	919.3	839.1
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	1193.3	1138.0	987.9	897.4
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	1306.3	1253.9	1097.7	993.6
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	1396.8	1361.6	1195.6	1080.6
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	1430.3	1415.2	1264.9	1154.2
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	1442.7	1455.7	1301.6	1199.2
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	1451.3	1507.8	1420.8	1333.5
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	1433.5	1516.4	1469.0	1415.5
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	1356.3	1455.4	1446.3	1399.2
								70°	1198.3	1308.7	1340.6	1273.8
								72.5°	901.5	1038.5	1212.8	1108.1
								75°	587.3	714.0	1035.6	949.2
								77.5°	367.8	445.6	738.8	664.8
								80°	244.7	286.4	469.0	427.0
								82.5°	184.0	203.0	322.5	303.3
								85°	97.0	123.7	250.9	318.1
								87.5°	36.4	40.5	188.8	284.3
								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

REPORT NUMBER: P227286

CATALOG NUMBER: ISW-AF-350-LED-E1-SLR-8030-ULG

ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
580.8	580.8	580.8	580.8	580.8	580.8	580.8	110°	117.0	116.0	117.5	119.0	120.0
640.9	646.2	649.5	647.1	650.9	651.8	647.7	112.5°	147.0	147.0	148.0	149.0	149.5
652.7	667.5	678.2	685.6	688.5	691.2	690.0	115°	178.0	177.0	178.0	179.0	180.5
630.8	653.6	673.4	687.0	691.8	695.3	692.1	117.5°	209.0	208.0	209.0	210.0	212.5
606.6	630.2	648.9	662.5	662.2	665.7	659.5	120°	243.0	243.0	244.0	245.0	247.5
583.8	606.8	623.4	622.8	618.7	608.3	606.6	122.5°	277.0	276.0	277.0	278.0	280.5
565.7	577.9	582.0	581.1	569.3	563.4	562.5	125°	310.0	310.0	310.0	310.0	312.5
556.8	556.3	546.8	536.4	525.2	524.6	516.9	127.5°	347.0	345.0	345.5	346.0	346.0
558.3	539.1	521.6	503.9	491.8	489.1	490.0	130°	380.0	379.0	380.0	381.0	381.0
577.0	542.9	510.1	492.0	477.8	473.7	475.5	132.5°	415.0	414.0	414.0	414.0	415.0
600.3	554.8	513.9	486.4	474.9	469.9	470.7	135°	451.0	450.0	448.5	447.0	447.5
616.0	568.4	526.7	492.6	477.0	472.2	475.2	137.5°	482.0	481.0	478.5	476.0	475.5
636.1	587.0	543.8	508.6	485.2	479.0	481.1	140°	511.0	509.0	506.5	504.0	503.0
656.0	607.1	568.1	528.1	499.7	488.2	491.5	142.5°	536.0	534.0	533.5	533.0	533.0
677.3	630.5	591.2	554.8	521.3	503.3	507.4	145°	560.0	558.0	559.5	561.0	561.5
702.1	657.7	624.0	590.6	556.3	541.2	542.9	147.5°	585.0	583.0	584.5	586.0	585.5
726.1	684.4	662.8	637.9	617.8	594.7	594.7	150°	610.0	606.0	604.5	603.0	601.5
740.3	719.0	713.1	706.0	694.1	677.6	674.0	152.5°	628.0	623.0	620.5	618.0	616.0
757.7	760.1	773.7	787.9	791.5	775.2	770.2	155°	641.0	638.0	637.0	636.0	633.5
790.6	815.4	860.1	898.9	906.6	919.9	904.5	157.5°	655.0	650.0	650.0	650.0	649.0
836.7	882.6	958.1	1021.4	1039.4	1040.6	1041.8	160°	666.0	660.0	660.5	661.0	662.5
889.4	955.1	1054.8	1130.3	1162.5	1171.1	1164.9	162.5°	674.0	668.0	669.0	670.0	670.5
979.7	1039.1	1148.3	1229.7	1271.1	1291.2	1285.9	165°	682.0	678.0	679.0	680.0	678.5
1069.0	1143.0	1239.1	1319.3	1363.4	1385.9	1390.6	167.5°	694.0	688.0	688.0	688.0	686.0
1130.0	1199.2	1288.0	1361.9	1405.4	1432.4	1434.7	170°	701.0	696.0	695.0	694.0	691.5
1167.2	1230.6	1317.3	1382.3	1425.8	1448.6	1456.9	172.5°	701.0	696.0	695.0	694.0	693.0
1280.3	1291.8	1351.0	1393.9	1424.4	1434.7	1440.9	175°	699.0	694.0	695.0	696.0	695.5
1333.2	1285.0	1278.2	1304.8	1307.5	1300.7	1292.1	177.5°	702.0	698.0	699.5	701.0	700.0
1259.6	1146.8	1105.1	1101.6	1090.6	1086.2	1059.0	180°	700.0	700.0	700.0	700.0	700.0
1093.9	931.4	857.8	817.8	842.1	841.2	813.4						
921.7	756.3	660.7	603.3	596.2	595.0	570.8						
748.6	593.5	509.8	482.0	448.6	438.5	442.6						
539.7	423.7	405.9	427.2	429.9	422.2	416.9						
340.0	318.7	335.8	374.6	397.4	387.3	391.2						
283.5	250.9	252.1	292.9	308.3	310.7	302.7						
314.5	251.2	205.9	200.9	195.6	123.1	171.3						
283.5	194.4	114.5	94.4	58.0	33.4	34.6						
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°	580.8	580.8	580.8	580.8	580.8	580.8
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	646.8	641.2	635.0	626.7	628.2	618.1
182.0	180.5	179.0	176.5	174.0	171.0	5°	680.8	671.1	657.7	640.9	625.2	605.1
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	677.3	661.6	639.4	613.9	593.2	564.2
250.0	248.0	246.0	244.5	243.0	240.0	10°	646.8	626.4	608.3	582.0	555.1	529.6
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	604.2	592.6	577.0	557.1	531.1	505.1
315.0	314.0	313.0	311.5	310.0	307.5	15°	557.7	558.6	549.2	543.8	530.8	510.1
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	519.6	528.4	533.5	541.8	543.2	533.2
381.0	379.0	377.0	374.5	372.0	371.0	20°	494.1	506.5	522.2	545.0	569.0	579.3
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	479.9	495.3	520.5	561.9	605.7	632.0
448.0	445.5	443.0	440.0	437.0	436.0	25°	477.3	497.7	532.9	583.5	640.3	677.3
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	481.7	508.3	550.0	607.7	663.7	717.2
502.0	501.0	500.0	498.5	497.0	494.0	30°	495.9	527.0	572.5	634.7	692.7	745.9
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	509.5	548.0	598.3	658.9	717.2	770.2
562.0	559.0	556.0	553.5	551.0	550.5	35°	531.4	570.2	621.6	677.6	734.1	794.1
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	564.8	598.9	640.0	692.1	750.9	813.1
600.0	598.5	597.0	595.0	593.0	593.0	40°	612.5	635.0	661.6	702.7	759.2	825.8
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	683.8	688.5	697.7	719.0	766.6	840.6
631.0	628.5	626.0	627.0	628.0	629.0	45°	775.8	761.6	753.6	750.6	783.2	850.1
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	882.6	854.8	822.8	807.5	815.1	865.2
664.0	661.0	658.0	656.5	655.0	655.0	50°	1021.7	976.4	913.7	869.3	865.4	909.5
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	1149.2	1090.0	1011.0	958.6	937.3	992.4
677.0	674.5	672.0	672.5	673.0	673.0	55°	1269.6	1224.1	1134.7	1069.6	1062.2	1102.1
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	1375.2	1335.9	1262.8	1177.9	1180.9	1219.6
689.0	687.5	686.0	688.5	691.0	692.0	59°	1430.0	1397.1	1329.4	1243.0	1249.5	1302.8
692.0	690.5	689.0	689.5	690.0	690.0	60°	1449.5	1422.0	1357.5	1284.7	1293.0	1348.3
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	1448.0	1430.3	1383.5	1349.2	1391.5	1432.1
699.0	696.5	694.0	694.5	695.0	696.0	65°	1309.9	1282.9	1277.6	1337.7	1419.3	1458.4
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	1041.8	1054.5	1105.1	1208.4	1345.4	1402.2
						70°	773.7	796.2	863.7	993.3	1181.4	1279.7
						72.5°	569.0	591.5	653.6	795.6	972.0	1059.0
						75°	446.5	453.3	498.0	609.5	766.0	837.3
						77.5°	412.5	392.0	373.7	433.5	516.6	577.9
						80°	384.1	345.3	302.1	320.1	340.3	405.4
						82.5°	298.2	272.5	238.8	261.9	271.3	273.4
						85°	174.6	155.3	196.8	278.7	275.8	241.4
						87.5°	61.5	79.9	89.9	154.4	186.7	161.6
						90°	8.0	8.9	10.7	10.5	11.4	7.5
						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°
580.8	580.8	580.8	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
610.1	601.8	601.2	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
589.1	570.5	564.5	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
539.1	517.5	513.1	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
497.1	473.1	469.0	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
475.5	452.7	447.7	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
483.8	458.6	455.9	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
514.8	488.2	489.4	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
568.1	550.9	546.8	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
637.9	619.3	613.9	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
697.4	687.9	684.4	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
740.3	744.7	741.2	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
774.6	789.4	787.6	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
809.8	838.5	839.7	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
835.9	886.5	896.8	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
869.3	937.0	947.7	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
894.7	974.3	987.3	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
919.6	1005.1	1019.3	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
940.0	1035.6	1050.1	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
963.1	1065.2	1079.4	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
1004.5	1111.6	1128.5	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
1093.6	1197.7	1221.7	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
1222.3	1316.7	1335.6	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
1338.3	1397.4	1402.5	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
1385.9	1419.6	1418.1	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
1420.8	1425.0	1416.7	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
1439.7	1400.4	1386.2	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
1390.3	1335.6	1317.0	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
1247.7	1218.7	1197.4	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
1061.3	987.9	974.0								
804.5	707.7	687.0								
562.2	446.2	418.1								
369.6	286.4	275.8								
239.7	190.3	187.0								
167.2	124.9	115.1								
102.7	41.7	39.9								
32.0	19.2	17.2								
5.9	6.2	6.2								
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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