

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: P227291

Luminaire Tested: **ISW-AF-1200-LED-E1-SLR-8030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227291  
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-1200-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: 6585 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G2

Input Watts (W): 82.7  
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

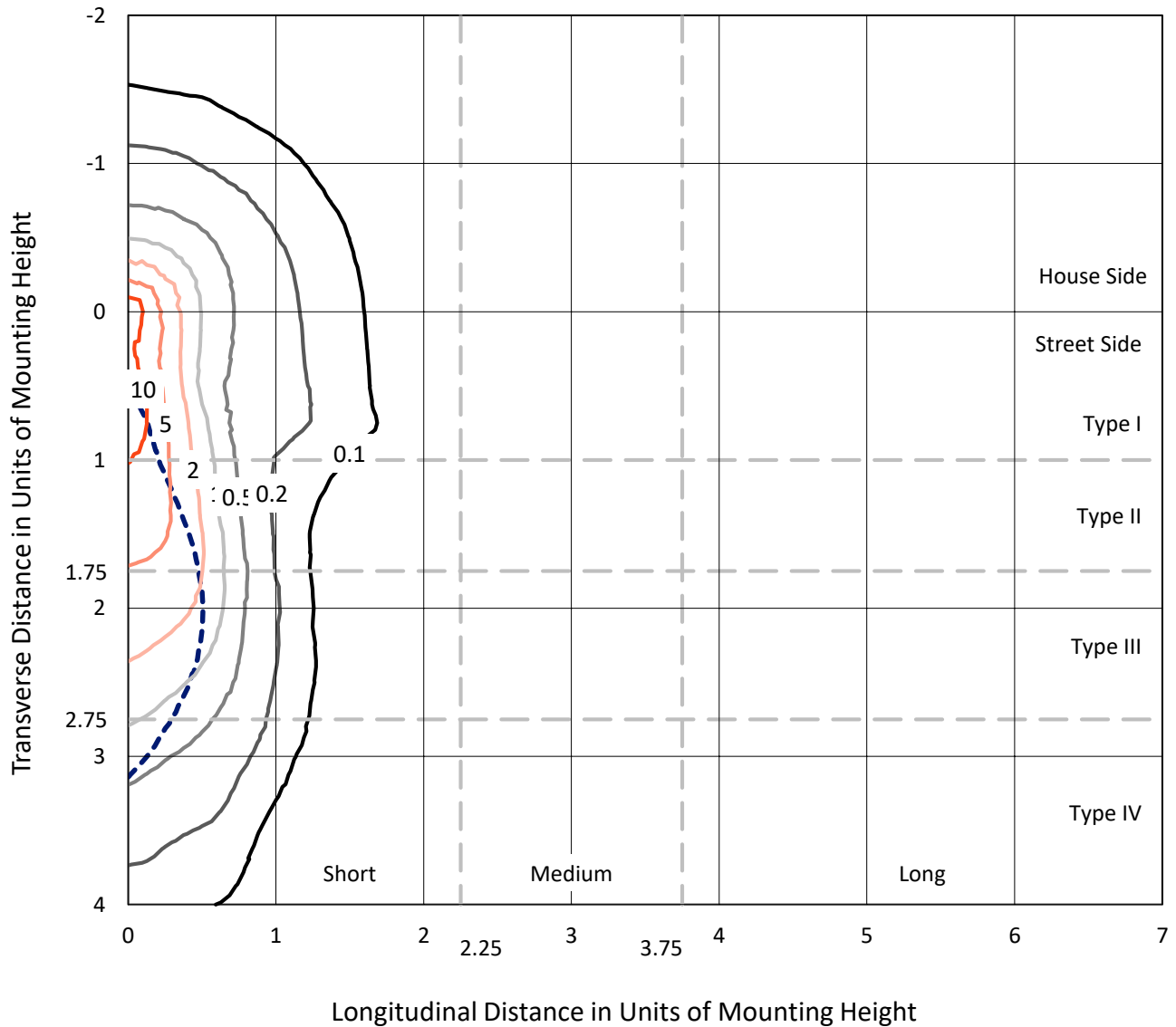


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

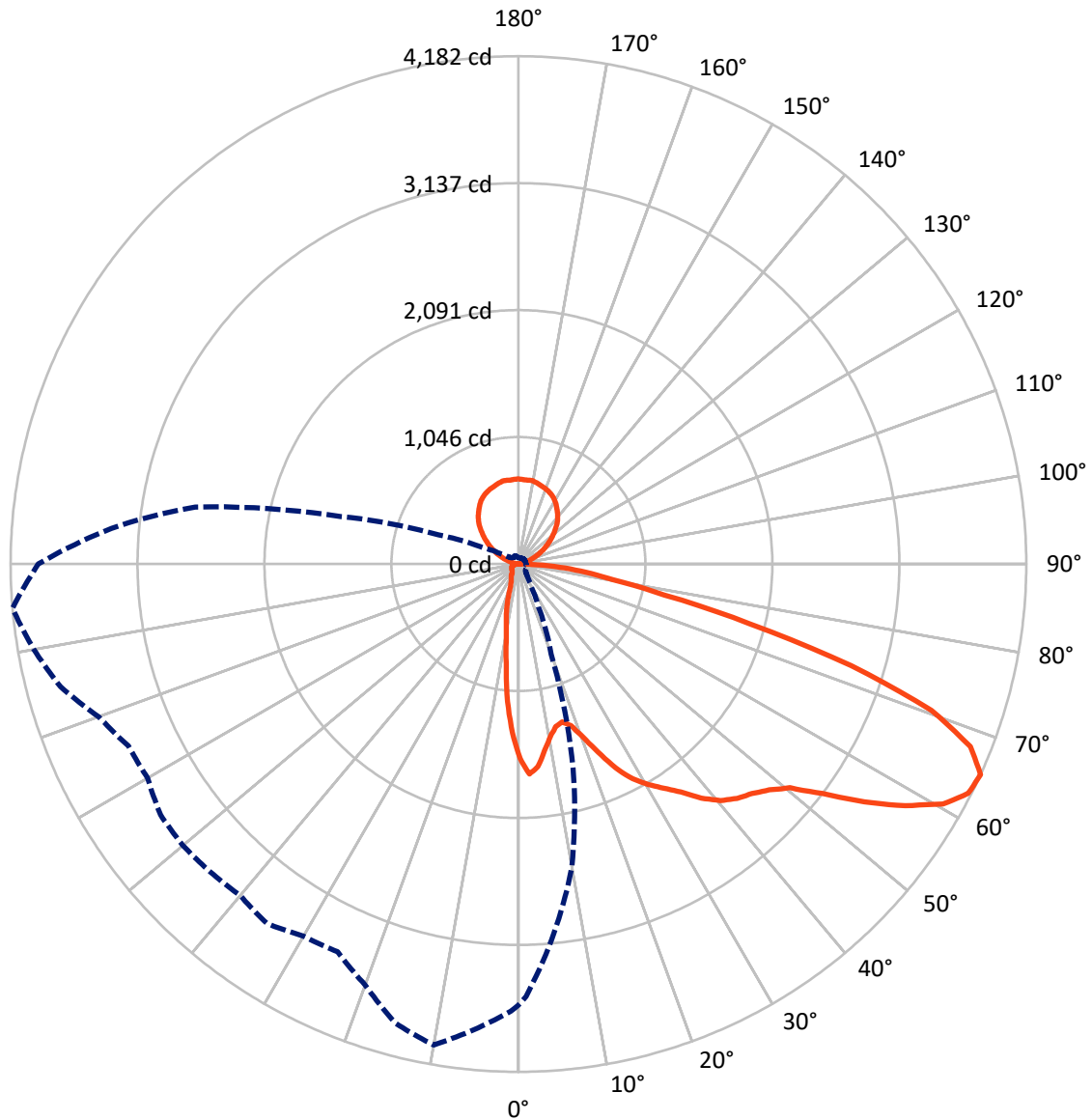


Based on 10 foot mounting height. Maximum calculated value = 16 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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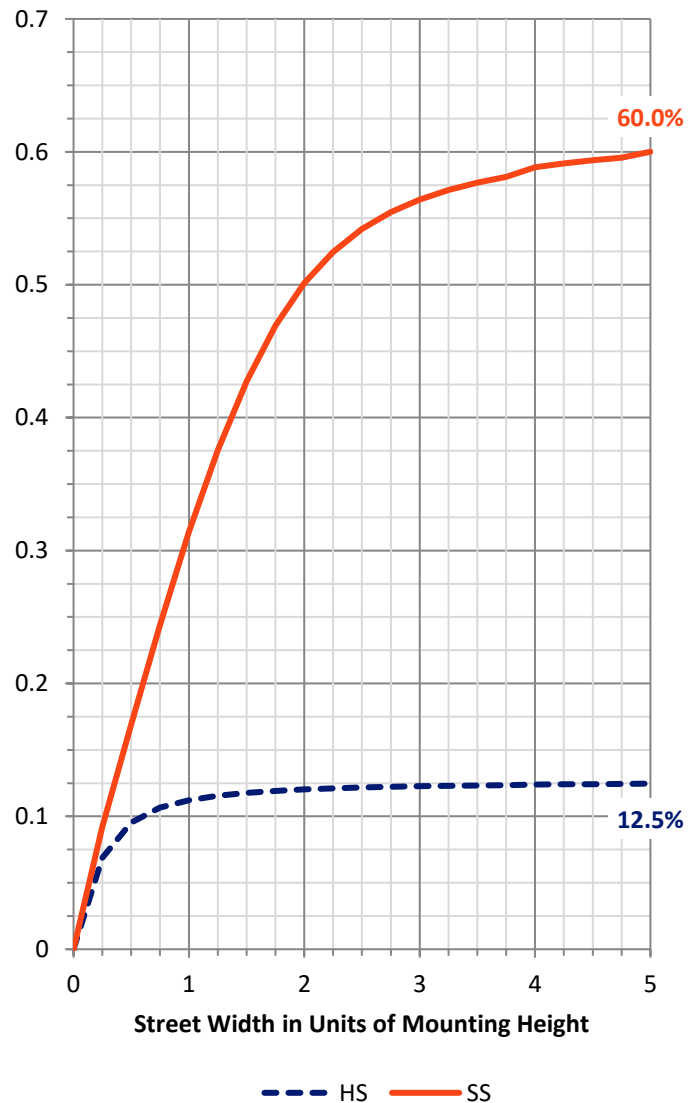
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	832.2	867.6	1699.8
	% Fixture	12.6	13.2	25.8
<b>Street Side</b>	Lumens	4017.5	867.8	4885.2
	% Fixture	61.0	13.2	74.2
<b>Total</b>	Lumens	4849.7	1735.3	6585.0
	% Fixture	73.6	26.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.7	1.8
10°-20°	228.3	3.5
20°-30°	325.6	4.9
30°-40°	472.4	7.2
40°-50°	675.8	10.3
50°-60°	1037.5	15.8
60°-70°	1200.9	18.2
70°-80°	612.7	9.3
80°-90°	177.8	2.7
90°-100°	9.5	0.1
100°-110°	57.4	0.9
110°-120°	166.1	2.5
120°-130°	273.2	4.1
130°-140°	336.8	5.1
140°-150°	344.6	5.2
150°-160°	290.3	4.4
160°-170°	191.2	2.9
170°-180°	66.3	1.0
0°-90°	4849.7	73.6
0°-180°	6585.0	100.0



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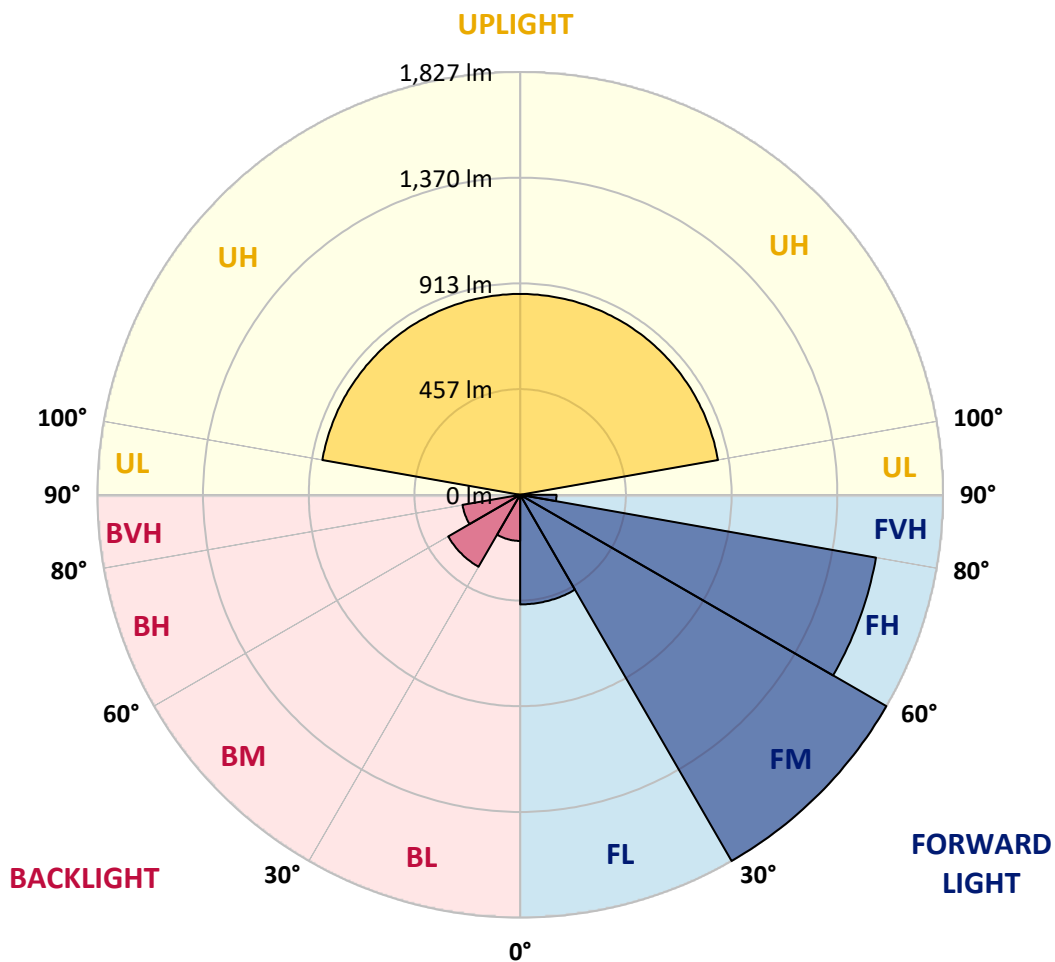
CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-8030-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	473.6	7.2			
FM	(30°-60°)	1826.5	27.7			
FH	(60°-80°)	1560.6	23.7			G1/1800
FVH	(80°-90°)	156.8	2.4			G2/225
BL	(0°-30°)	199.1	3.0	B1/500		
BM	(30°-60°)	359.1	5.5	B1/1000		
BH	(60°-80°)	253.0	3.8	B1/500		G1/500
BVH	(80°-90°)	21.1	0.3			G1/100
UL	(90°-100°)	9.5	0.1		U1/10	
UH	(100°-180°)	867.6	13.2		U4/1000	

**BUG Rating: B1-U5-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9
2.5°	1658.2	1648.4	1636.1	1614.9	1596.2	1569.2	1562.7	1529.2	1508.0	1512.9	1474.6
5°	1557.0	1551.3	1521.1	1473.8	1442.7	1381.5	1346.5	1328.5	1277.9	1271.4	1257.5
7.5°	1415.0	1397.9	1348.9	1290.2	1237.1	1192.2	1135.9	1092.7	1054.3	1030.7	989.0
10°	1293.4	1275.5	1222.4	1150.6	1087.0	1024.1	978.4	922.1	867.4	825.0	791.6
12.5°	1234.7	1215.1	1153.1	1069.8	998.8	920.5	856.0	800.5	770.3	749.1	721.4
15°	1257.5	1228.9	1154.7	1055.1	967.0	883.8	815.2	755.6	719.7	687.1	654.5
17.5°	1349.7	1314.6	1229.8	1109.8	987.4	879.7	781.8	714.0	656.9	607.9	563.9
20°	1508.0	1481.9	1358.7	1190.6	1031.5	882.1	753.2	664.3	594.9	532.9	474.1
22.5°	1693.3	1654.1	1533.3	1299.9	1087.8	896.8	735.2	622.6	540.2	457.0	393.3
25°	1887.5	1857.3	1697.4	1446.8	1174.3	927.0	721.4	585.9	475.7	383.5	313.4
27.5°	2044.2	2017.2	1858.9	1588.0	1253.4	953.1	701.0	550.8	424.3	313.4	235.8
30°	2172.3	2149.4	1983.8	1703.9	1349.7	962.1	672.4	510.0	367.2	253.0	195.0
32.5°	2315.9	2290.6	2103.7	1784.7	1393.0	953.9	639.8	471.7	321.5	223.6	167.3
35°	2473.4	2444.0	2237.6	1872.0	1428.9	925.4	612.0	443.9	299.5	203.2	148.5
37.5°	2613.8	2595.0	2358.3	1958.5	1469.7	878.1	585.1	413.7	284.8	188.5	133.8
40°	2723.1	2718.2	2492.2	2030.3	1501.5	843.8	563.1	390.1	266.0	182.8	128.9
42.5°	2811.2	2809.6	2601.5	2094.8	1509.7	813.6	545.9	368.8	248.9	168.9	131.4
45°	2896.1	2895.3	2707.6	2184.5	1515.4	815.2	532.9	355.8	234.2	159.9	124.0
47.5°	2976.9	2989.1	2818.6	2309.4	1575.8	843.0	528.0	343.6	222.8	150.2	117.5
50°	3112.4	3100.1	2994.0	2478.3	1672.9	896.8	519.8	332.9	212.2	141.2	111.0
52.5°	3369.4	3355.5	3260.9	2704.3	1779.0	952.3	509.2	318.3	199.9	131.4	103.6
55°	3683.6	3702.3	3571.0	2979.3	1923.4	998.8	497.8	298.7	183.6	120.0	98.7
57.5°	3868.0	3852.5	3702.3	3137.7	2012.3	1022.5	490.4	275.8	158.3	110.2	93.8
59°	3911.3	3885.1	3680.3	3164.6	2036.0	1011.1	486.4	253.8	145.3	105.3	91.4
60°	3907.2	3875.3	3645.2	3147.4	2042.5	997.2	479.8	240.7	137.9	102.8	90.6
62.5°	3823.1	3773.3	3446.1	2940.2	1951.1	927.8	452.9	209.7	128.1	99.6	85.7
65°	3632.2	3562.0	3111.5	2535.4	1741.4	789.9	391.7	198.3	130.6	97.9	82.4
67.5°	3302.5	3246.2	2681.5	2098.0	1388.1	638.1	338.7	193.4	133.8	99.6	77.5
70°	2686.4	2638.2	2092.3	1570.9	1039.6	507.6	307.6	191.0	131.4	95.5	73.4
72.5°	1894.8	1811.6	1390.5	1100.0	659.4	408.0	266.8	180.3	128.1	92.2	66.9
75°	1153.1	1168.6	883.8	801.3	416.2	279.9	209.7	151.8	113.4	82.4	60.4
77.5°	760.5	759.7	652.0	565.5	211.4	173.8	148.5	116.7	88.9	67.7	52.2
80°	515.7	521.4	473.3	386.0	117.5	104.5	97.1	84.9	65.3	51.4	43.2
82.5°	317.4	318.3	366.4	288.9	78.3	66.1	62.0	57.1	46.5	40.0	33.5
85°	110.2	112.6	128.1	204.0	53.0	43.2	43.2	40.0	35.1	26.9	22.0
87.5°	47.3	46.5	55.5	55.5	26.1	22.0	20.4	20.4	19.6	14.7	12.2
90°	8.3	7.4	7.4	9.3	11.1	13.2	12.9	13.7	13.7	12.4	10.3
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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CATALOG NUMBER: ISW-AF-1200-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°	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9
2.5°	1463.2	1454.2	1428.9	1422.3	1430.5	1414.2	1410.1	1406.0	1375.8	1391.3	1373.4
5°	1223.2	1220.8	1169.4	1180.0	1169.4	1151.4	1144.1	1161.2	1131.0	1137.6	1141.6
7.5°	940.1	930.3	896.0	873.2	859.3	847.0	831.5	806.2	825.8	821.7	852.8
10°	763.0	741.8	720.6	688.7	670.8	653.6	635.7	625.9	603.0	600.6	590.0
12.5°	699.3	669.1	642.2	614.5	595.7	561.4	532.9	514.9	500.2	477.4	460.2
15°	614.5	589.2	554.1	527.2	497.8	466.8	439.0	416.2	405.6	384.4	374.6
17.5°	528.8	490.4	448.0	421.1	380.3	348.4	325.6	310.9	295.4	282.3	270.9
20°	426.0	376.2	330.5	296.2	264.4	233.4	222.8	204.8	198.3	193.4	197.5
22.5°	324.0	272.6	225.2	199.1	182.0	173.8	164.8	161.6	159.1	158.3	159.9
25°	237.5	194.2	171.4	161.6	155.0	150.2	146.9	144.4	142.8	142.0	142.8
27.5°	183.6	160.8	149.3	142.8	137.9	134.6	133.0	130.6	129.7	128.9	129.7
30°	159.1	146.9	138.7	132.2	126.5	120.8	118.3	117.5	118.3	119.1	118.3
32.5°	138.7	129.7	120.8	115.1	111.0	107.7	107.7	106.1	106.1	108.5	109.3
35°	125.7	116.7	110.2	102.8	97.9	94.7	92.2	90.6	91.4	91.4	93.8
37.5°	115.1	108.5	102.8	96.3	91.4	88.1	86.5	84.9	84.1	83.2	83.2
40°	107.7	103.6	98.7	92.2	87.3	84.1	82.4	80.8	80.0	79.2	79.2
42.5°	107.7	99.6	96.3	90.6	84.9	81.6	79.2	77.5	75.9	75.9	75.9
45°	118.3	102.0	96.3	89.8	84.1	80.0	77.5	75.1	73.4	73.4	72.6
47.5°	115.1	114.2	97.9	89.8	84.9	80.0	76.7	74.3	72.6	71.8	71.0
50°	109.3	119.1	109.3	92.2	84.9	79.2	75.9	73.4	71.0	70.2	70.2
52.5°	106.1	111.0	113.4	95.5	85.7	79.2	75.1	72.6	71.0	69.4	68.5
55°	97.9	104.5	108.5	93.8	85.7	77.5	73.4	71.0	68.5	67.7	66.9
57.5°	89.8	94.7	104.5	93.8	83.2	76.7	71.8	68.5	66.9	66.1	65.3
59°	87.3	87.3	93.0	96.3	81.6	75.9	71.0	67.7	66.1	65.3	63.7
60°	84.9	84.9	88.1	98.7	80.8	75.1	70.2	66.9	64.5	64.5	63.7
62.5°	81.6	79.2	80.8	92.2	78.3	73.4	68.5	65.3	62.8	62.8	62.0
65°	77.5	74.3	74.3	76.7	73.4	70.2	66.9	63.7	60.4	60.4	61.2
67.5°	73.4	70.2	69.4	69.4	67.7	66.9	63.7	60.4	58.8	58.8	58.8
70°	67.7	65.3	64.5	62.8	62.8	62.0	59.6	57.1	55.5	56.3	55.5
72.5°	61.2	59.6	57.9	57.9	57.1	56.3	53.9	52.2	51.4	52.2	52.2
75°	54.7	52.2	52.2	50.6	50.6	49.8	47.3	46.5	45.7	46.5	47.3
77.5°	46.5	44.9	44.1	44.1	44.1	44.1	40.8	40.0	40.0	41.6	41.6
80°	38.4	37.5	36.7	36.7	36.7	35.9	34.3	33.5	33.5	34.3	35.1
82.5°	29.4	27.7	27.7	28.6	29.4	29.4	26.9	25.3	25.3	26.9	28.6
85°	19.6	19.6	19.6	20.4	20.4	21.2	19.6	17.1	18.0	18.8	21.2
87.5°	10.6	11.4	10.6	9.8	11.4	10.6	10.6	9.8	10.6	11.4	12.2
90°	10.3	10.3	10.4	10.6	9.8	10.6	9.6	9.4	7.8	7.8	9.6
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-1200-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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**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9
2.5°	1389.7	1375.8	1368.5	1397.1	1394.6	1370.1	1370.1	1387.3	1388.1	1373.4	1390.5
5°	1146.5	1132.7	1145.7	1134.3	1140.8	1140.0	1149.8	1131.8	1139.2	1132.7	1117.2
7.5°	850.3	878.1	892.7	874.0	897.6	909.9	892.7	909.9	882.9	860.9	882.1
10°	585.1	616.1	610.4	640.6	652.0	658.5	670.8	655.3	636.5	630.8	615.3
12.5°	453.7	447.2	444.7	457.0	464.3	453.7	462.7	452.9	443.1	426.0	425.2
15°	355.0	344.4	337.0	323.1	318.3	320.7	324.8	324.8	305.2	306.0	313.4
17.5°	269.3	266.8	261.1	249.7	242.4	244.8	244.0	239.9	237.5	239.1	248.1
20°	202.4	199.9	203.2	206.5	204.0	204.8	201.6	197.5	195.8	197.5	199.1
22.5°	159.9	163.2	167.3	172.2	173.0	177.1	176.3	177.1	173.8	172.2	168.1
25°	146.1	147.7	145.3	146.1	146.1	150.2	149.3	149.3	146.1	145.3	146.1
27.5°	128.9	128.1	128.1	129.7	129.7	132.2	133.8	132.2	128.9	128.1	128.9
30°	119.1	118.3	117.5	118.3	117.5	118.3	120.0	120.0	118.3	115.9	116.7
32.5°	109.3	109.3	108.5	109.3	108.5	108.5	110.2	107.7	107.7	106.9	106.9
35°	96.3	97.9	99.6	100.4	100.4	100.4	102.0	99.6	98.7	97.9	97.9
37.5°	83.2	84.9	89.8	92.2	93.0	94.7	95.5	93.8	92.2	90.6	88.9
40°	79.2	79.2	80.8	84.1	87.3	88.1	89.8	87.3	86.5	84.1	81.6
42.5°	75.9	76.7	76.7	77.5	78.3	80.0	82.4	80.0	78.3	76.7	74.3
45°	73.4	73.4	73.4	73.4	72.6	72.6	73.4	71.8	71.0	70.2	70.2
47.5°	71.8	71.0	70.2	69.4	68.5	67.7	67.7	66.1	66.1	66.1	66.1
50°	70.2	68.5	67.7	66.9	65.3	65.3	65.3	63.7	62.8	62.8	63.7
52.5°	67.7	66.9	66.1	65.3	64.5	63.7	63.7	62.0	61.2	61.2	61.2
55°	66.9	66.1	64.5	63.7	62.8	63.7	62.8	62.0	60.4	60.4	60.4
57.5°	64.5	65.3	64.5	62.8	62.8	62.8	62.8	61.2	60.4	58.8	59.6
59°	63.7	64.5	63.7	62.8	62.0	62.8	62.8	60.4	59.6	58.8	58.8
60°	62.8	63.7	62.8	62.0	62.0	62.8	62.0	61.2	59.6	57.1	57.9
62.5°	62.0	62.0	61.2	61.2	60.4	61.2	60.4	58.8	57.1	55.5	54.7
65°	60.4	60.4	59.6	59.6	58.8	58.8	58.8	57.1	55.5	53.9	53.9
67.5°	59.6	58.8	57.9	57.9	57.1	57.1	57.1	55.5	53.0	52.2	51.4
70°	56.3	55.5	55.5	54.7	53.9	54.7	55.5	53.0	50.6	49.0	48.1
72.5°	53.0	52.2	52.2	51.4	51.4	52.2	53.0	50.6	47.3	45.7	44.9
75°	48.1	47.3	47.3	47.3	47.3	49.0	49.0	46.5	44.1	41.6	40.0
77.5°	41.6	42.4	42.4	42.4	42.4	44.1	44.1	42.4	40.0	38.4	35.9
80°	35.9	35.9	36.7	36.7	37.5	37.5	36.7	35.9	35.1	33.5	30.2
82.5°	30.2	30.2	30.2	30.2	30.2	29.4	27.7	29.4	29.4	27.7	25.3
85°	23.7	23.7	23.7	24.5	24.5	22.0	19.6	19.6	22.0	21.2	19.6
87.5°	13.9	13.9	14.7	17.1	15.5	14.7	12.2	13.1	12.2	13.9	11.4
90°	12.3	11.4	11.4	8.8	8.6	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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REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	110°	80.5
1392.2	1395.4	1402.8	1400.3	1427.2	1419.1	1437.9	1463.2	1486.8	1475.4	1478.7	112.5°	113.5
1144.9	1149.0	1118.0	1136.7	1164.5	1153.1	1149.0	1186.5	1177.5	1220.0	1184.9	115°	153.0
847.9	838.1	823.4	816.0	795.6	795.6	834.0	851.1	848.7	878.1	908.2	117.5°	193.0
595.7	584.3	566.3	561.4	581.8	591.6	608.8	625.9	648.7	682.2	701.8	120°	229.5
437.4	433.3	437.4	449.6	468.4	482.3	508.4	538.6	563.9	590.8	616.9	122.5°	264.0
330.5	338.7	349.3	357.4	372.1	398.2	412.1	445.6	468.4	492.1	522.3	125°	297.5
257.1	261.9	264.4	267.7	279.9	298.7	298.7	332.9	363.1	394.1	419.4	127.5°	331.0
195.8	195.8	187.7	192.6	194.2	192.6	202.4	222.0	241.5	261.9	301.9	130°	364.0
164.0	159.1	156.7	155.9	156.7	159.9	165.7	173.0	176.3	185.2	200.7	132.5°	397.0
145.3	144.4	142.0	142.0	143.6	144.4	150.2	156.7	158.3	160.8	166.5	135°	429.0
128.1	129.7	132.2	131.4	132.2	133.8	137.9	143.6	146.9	147.7	151.8	137.5°	459.5
115.9	117.5	118.3	120.8	120.8	121.6	124.9	130.6	133.0	137.1	141.2	140°	488.0
107.7	108.5	109.3	108.5	109.3	109.3	113.4	119.1	122.4	124.9	127.3	142.5°	517.5
98.7	97.9	97.9	97.9	95.5	94.7	96.3	102.0	102.8	105.3	111.0	145°	545.5
88.1	85.7	84.1	84.1	84.1	84.9	88.9	94.7	95.5	97.9	102.8	147.5°	572.5
78.3	77.5	77.5	78.3	79.2	80.8	84.1	89.8	90.6	93.0	97.1	150°	593.0
73.4	73.4	73.4	74.3	75.1	75.9	80.0	85.7	87.3	89.8	94.7	152.5°	608.5
70.2	71.0	70.2	70.2	71.0	72.6	76.7	83.2	85.7	88.1	93.0	155°	626.0
67.7	67.7	67.7	68.5	68.5	70.2	75.1	81.6	83.2	86.5	93.8	157.5°	643.5
64.5	66.1	65.3	66.1	66.9	68.5	73.4	80.0	82.4	87.3	95.5	160°	657.5
62.8	62.8	62.8	63.7	65.3	66.1	70.2	77.5	80.8	87.3	100.4	162.5°	667.0
62.0	60.4	60.4	61.2	62.8	64.5	68.5	75.9	80.0	86.5	99.6	165°	676.0
61.2	58.8	57.9	58.8	60.4	61.2	66.1	73.4	79.2	84.1	96.3	167.5°	685.0
58.8	57.1	56.3	57.1	58.8	60.4	64.5	71.8	75.9	82.4	92.2	170°	692.0
57.9	55.5	55.5	56.3	57.9	58.8	62.8	70.2	74.3	83.2	94.7	172.5°	694.0
54.7	53.9	53.9	54.7	54.7	56.3	61.2	68.5	71.8	84.9	79.2	175°	696.0
52.2	52.2	52.2	52.2	53.0	53.9	59.6	66.9	68.5	73.4	67.7	177.5°	699.5
50.6	50.6	50.6	50.6	50.6	52.2	57.1	64.5	65.3	64.5	62.0	180°	700.0
47.3	47.3	47.3	47.3	48.1	49.0	53.9	60.4	60.4	58.8	58.8		
44.9	44.1	44.1	44.1	44.1	44.9	49.8	56.3	55.5	54.7	54.7		
40.0	40.0	40.0	40.0	40.0	40.0	44.9	51.4	50.6	49.8	49.0		
35.1	35.1	35.9	35.1	34.3	33.5	38.4	45.7	45.7	44.9	44.1		
30.2	29.4	30.2	29.4	27.7	27.7	31.8	38.4	39.2	38.4	36.7		
24.5	23.7	23.7	23.7	20.4	20.4	24.5	31.0	31.0	30.2	28.6		
18.8	18.0	17.1	16.3	13.9	13.9	17.1	22.8	23.7	20.4	19.6		
9.8	9.8	9.8	7.3	6.5	5.7	9.0	13.9	13.9	11.4	9.8		
7.5	7.0	6.0	5.0	5.0	5.0	6.0	7.8	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		

'227291  
 ISW-AF-1200-LED-E1-SLR-8030-ULG

REPORT NUMBER: P227291  
 CATALOG NUMBER: ISW-AF-1:

**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°	1601.9	1601.9
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	1499.1	1506.4
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	1211.0	1239.6
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	915.6	953.9
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	733.6	759.7
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	643.9	681.4
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	552.5	593.3
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	452.9	502.7
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	346.0	395.0
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	243.2	284.8
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	177.1	195.8
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	157.5	164.8
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	147.7	152.6
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	133.0	137.9
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	116.7	123.2
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	108.5	113.4
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	103.6	104.5
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	99.6	99.6
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	97.1	99.6
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	98.7	109.3
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	111.0	107.7
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	113.4	101.2
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	103.6	97.1
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	93.0	84.9
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	83.2	78.3
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	77.5	75.9
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	71.0	72.6
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	66.1	69.4
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	63.7	66.1
										70°	59.6	61.2
										72.5°	55.5	56.3
										75°	49.8	50.6
										77.5°	44.1	44.1
										80°	35.9	35.9
										82.5°	27.7	26.9
										85°	18.0	17.1
										87.5°	8.2	6.5
										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: P227291

CATALOG NUMBER: ISW-AF-1200-LED-E:

200-LED-E1-SLR-8030-ULG

**tinued):**

**CANDELA DISTRIBUTION (continued):**

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	110°	102.0	108.0	114.0
1543.1	1566.0	1583.9	1580.7	1619.0	1641.9	1645.1	1668.8	1691.6	112.5°	134.0	138.5	143.0
1262.4	1294.2	1325.2	1348.1	1408.5	1458.3	1496.6	1537.4	1585.6	115°	168.0	171.0	174.0
1006.2	1033.1	1083.7	1120.4	1184.1	1242.0	1298.3	1362.8	1417.5	117.5°	202.0	203.5	205.0
788.3	822.6	869.9	938.4	995.6	1061.7	1132.7	1193.9	1285.3	120°	237.0	240.0	243.0
708.3	729.5	768.7	801.3	872.3	942.5	1022.5	1106.5	1190.6	122.5°	271.0	274.0	277.0
625.9	663.4	700.2	747.5	809.5	886.2	972.7	1063.3	1158.0	125°	305.0	307.5	310.0
545.9	595.7	635.7	687.1	756.5	853.6	966.2	1078.8	1189.8	127.5°	339.0	339.5	340.0
448.0	494.5	564.7	616.9	707.5	829.1	973.5	1129.4	1279.5	130°	370.0	371.0	372.0
352.5	402.3	482.3	559.8	659.4	816.0	1002.9	1212.6	1413.4	132.5°	404.0	404.5	405.0
252.2	319.9	399.0	497.0	617.7	807.9	1042.9	1315.4	1585.6	135°	435.0	436.0	437.0
188.5	235.8	332.1	439.0	571.2	793.2	1085.3	1410.9	1703.1	137.5°	464.0	466.0	468.0
168.1	201.6	264.4	377.0	514.1	764.6	1117.2	1501.5	1810.0	140°	491.0	494.0	497.0
146.9	173.0	222.8	318.3	462.7	720.6	1131.0	1549.6	1884.2	142.5°	521.0	523.0	525.0
128.9	153.4	204.0	295.4	436.6	670.8	1128.6	1597.8	1977.3	145°	550.0	550.5	551.0
117.5	138.7	195.8	289.7	416.2	625.1	1131.0	1675.3	2115.2	147.5°	574.0	574.5	575.0
108.5	133.0	189.3	277.5	406.4	599.8	1140.8	1743.9	2233.5	150°	593.0	593.0	593.0
108.5	131.4	173.0	260.3	401.5	602.2	1144.9	1796.9	2321.6	152.5°	610.0	610.0	610.0
114.2	123.2	160.8	250.5	404.8	620.2	1140.0	1850.8	2407.3	155°	630.0	629.0	628.0
108.5	115.1	152.6	248.9	404.8	633.2	1154.7	1917.7	2519.9	157.5°	646.0	645.5	645.0
102.8	106.9	150.2	246.4	396.6	645.5	1215.1	2042.5	2666.8	160°	655.0	655.0	655.0
95.5	100.4	146.9	242.4	387.6	661.0	1322.0	2252.3	2910.0	162.5°	661.0	662.0	663.0
86.5	96.3	142.0	235.8	381.9	688.7	1431.3	2464.4	3199.7	165°	673.0	673.0	673.0
83.2	92.2	130.6	220.3	376.2	718.9	1548.0	2667.6	3460.0	167.5°	688.0	686.5	685.0
80.8	88.9	120.8	208.9	371.3	733.6	1583.1	2745.1	3560.4	170°	693.0	692.0	691.0
79.2	87.3	115.1	199.1	365.6	734.4	1608.4	2774.5	3575.0	172.5°	690.0	690.0	690.0
76.7	84.1	103.6	178.7	347.6	733.6	1610.9	2793.3	3532.6	175°	691.0	690.5	690.0
72.6	80.8	104.5	168.1	315.0	699.3	1509.7	2702.7	3363.7	177.5°	697.0	696.0	695.0
69.4	78.3	110.2	170.6	280.7	611.2	1320.3	2421.2	3002.2	180°	700.0	700.0	700.0
64.5	76.7	115.1	176.3	270.9	507.6	998.8	1977.3	2514.2				
59.6	75.9	119.1	180.3	260.3	417.8	692.0	1401.9	1881.8				
53.9	69.4	108.5	153.4	215.4	303.6	445.6	917.2	1297.5				
46.5	55.5	79.2	107.7	158.3	212.2	263.6	554.1	848.7				
38.4	41.6	56.3	69.4	105.3	125.7	146.1	312.5	593.3				
28.6	29.4	38.4	44.1	59.6	69.4	87.3	191.8	480.6				
16.3	18.8	26.1	29.4	35.9	44.1	57.1	122.4	377.0				
6.5	8.2	15.5	17.1	19.6	24.5	31.8	71.0	117.5				
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				



REPORT NUMBER: P227291

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-803C

1-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°	1601.9	1601.9	1601.9	1601.9
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	1714.5	1731.6	1746.3	1757.7
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	1637.0	1677.0	1725.1	1765.9
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	1499.1	1549.6	1628.0	1676.1
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	1368.5	1442.7	1528.4	1597.8
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	1279.5	1371.8	1453.4	1530.9
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	1255.1	1348.9	1422.3	1493.3
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	1304.0	1397.9	1460.7	1504.0
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	1419.1	1519.5	1559.4	1556.2
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	1576.6	1681.8	1681.8	1649.2
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	1784.7	1860.6	1818.9	1756.9
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	1932.4	2003.4	1930.7	1828.7
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	2054.8	2107.0	2014.8	1891.6
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	2162.5	2200.8	2079.3	1957.7
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	2291.4	2305.3	2146.2	2016.4
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	2434.2	2445.7	2242.5	2080.9
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	2602.3	2561.5	2313.5	2140.5
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	2706.0	2639.1	2364.9	2171.5
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	2787.6	2696.2	2388.5	2189.4
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	2887.9	2780.2	2430.2	2222.1
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	3020.1	2896.9	2535.4	2314.3
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	3291.1	3138.5	2724.7	2475.0
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	3602.8	3458.4	3027.5	2740.2
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	3852.5	3755.4	3297.6	2980.2
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	3944.7	3903.1	3488.5	3183.4
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	3979.0	4014.9	3589.7	3307.4
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	4002.7	4158.5	3918.6	3677.9
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	3953.7	4182.2	4051.6	3903.9
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	3740.7	4014.1	3988.8	3859.0
								70°	3304.9	3609.3	3697.5	3513.0
								72.5°	2486.5	2864.3	3344.9	3056.0
								75°	1619.8	1969.1	2856.1	2617.8
								77.5°	1014.3	1228.9	2037.6	1833.6
								80°	674.9	789.9	1293.4	1177.5
								82.5°	507.6	559.8	889.5	836.4
								85°	267.7	341.1	692.0	877.2
								87.5°	100.4	111.8	520.6	784.2
								90°	7.0	7.0	8.8	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: P227291

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-8030-ULG

J-ULG

**CANDELA DISTRIBUTION (continued):**

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	110°	117.0	116.0	117.5	119.0	120.0
1767.5	1782.2	1791.2	1784.7	1795.3	1797.7	1786.3	112.5°	147.0	147.0	148.0	149.0	149.5
1800.2	1841.0	1870.4	1890.8	1898.9	1906.3	1903.0	115°	178.0	177.0	178.0	179.0	180.5
1739.8	1802.6	1857.3	1894.8	1907.9	1917.7	1908.7	117.5°	209.0	208.0	209.0	210.0	212.5
1672.9	1738.2	1789.6	1827.1	1826.3	1836.1	1818.9	120°	243.0	243.0	244.0	245.0	247.5
1610.0	1673.7	1719.4	1717.8	1706.3	1677.8	1672.9	122.5°	277.0	276.0	277.0	278.0	280.5
1560.3	1593.7	1605.1	1602.7	1570.1	1553.7	1551.3	125°	310.0	310.0	310.0	310.0	312.5
1535.8	1534.1	1508.0	1479.5	1448.5	1446.8	1425.6	127.5°	347.0	345.0	345.5	346.0	346.0
1539.9	1486.8	1438.7	1389.7	1356.2	1348.9	1351.4	130°	380.0	379.0	380.0	381.0	381.0
1591.3	1497.4	1406.8	1357.1	1317.9	1306.5	1311.4	132.5°	415.0	414.0	414.0	414.0	415.0
1655.7	1530.1	1417.5	1341.6	1309.7	1295.9	1298.3	135°	451.0	450.0	448.5	447.0	447.5
1699.0	1567.6	1452.5	1358.7	1315.4	1302.4	1310.6	137.5°	482.0	481.0	478.5	476.0	475.5
1754.5	1619.0	1499.9	1402.8	1338.3	1321.2	1326.9	140°	511.0	509.0	506.5	504.0	503.0
1809.1	1674.5	1566.8	1456.6	1378.3	1346.5	1355.4	142.5°	536.0	534.0	533.5	533.0	533.0
1867.9	1739.0	1630.4	1530.1	1437.9	1388.1	1399.5	145°	560.0	558.0	559.5	561.0	561.5
1936.5	1814.0	1721.0	1628.8	1534.1	1492.5	1497.4	147.5°	585.0	583.0	584.5	586.0	585.5
2002.5	1887.5	1827.9	1759.4	1703.9	1640.2	1640.2	150°	610.0	606.0	604.5	603.0	601.5
2041.7	1983.0	1966.6	1947.1	1914.4	1868.7	1858.9	152.5°	628.0	623.0	620.5	618.0	616.0
2089.9	2096.4	2133.9	2173.1	2182.9	2138.0	2124.1	155°	641.0	638.0	637.0	636.0	633.5
2180.4	2249.0	2372.2	2479.1	2500.3	2537.1	2494.6	157.5°	655.0	650.0	650.0	650.0	649.0
2307.7	2434.2	2642.3	2817.0	2866.7	2870.0	2873.3	160°	666.0	660.0	660.5	661.0	662.5
2453.0	2634.2	2909.2	3117.3	3206.2	3229.9	3212.7	162.5°	674.0	668.0	669.0	670.0	670.5
2701.9	2865.9	3167.0	3391.4	3505.7	3561.2	3546.5	165°	682.0	678.0	679.0	680.0	678.5
2948.3	3152.3	3417.6	3638.7	3760.3	3822.3	3835.4	167.5°	694.0	688.0	688.0	688.0	686.0
3116.4	3307.4	3552.2	3756.2	3876.2	3950.4	3957.0	170°	701.0	696.0	695.0	694.0	691.5
3219.3	3393.9	3633.0	3812.5	3932.5	3995.3	4018.2	172.5°	701.0	696.0	695.0	694.0	693.0
3531.0	3562.8	3726.0	3844.3	3928.4	3957.0	3974.1	175°	699.0	694.0	695.0	696.0	695.5
3677.1	3544.0	3525.3	3598.7	3606.1	3587.3	3563.6	177.5°	702.0	698.0	699.5	701.0	700.0
3473.9	3163.0	3047.9	3038.1	3007.9	2995.7	2920.6	180°	700.0	700.0	700.0	700.0	700.0
3016.9	2568.9	2365.7	2255.5	2322.4	2320.0	2243.3						
2541.9	2085.8	1822.2	1663.9	1644.3	1641.0	1574.1						
2064.6	1637.0	1406.0	1329.3	1237.1	1209.4	1220.8						
1488.4	1168.6	1119.6	1178.4	1185.7	1164.5	1149.8						
937.6	878.9	926.2	1033.1	1095.9	1068.2	1078.8						
781.8	692.0	695.3	807.9	850.3	856.8	834.8						
867.4	692.8	568.0	554.1	539.4	339.5	472.5						
781.8	536.1	315.8	260.3	159.9	92.2	95.5						
9.0	9.0	8.0	7.0	7.0	7.0	7.5						
6.5	7.0	7.0	7.0	6.5	6.0	6.0						
7.5	8.0	7.5	7.0	7.0	7.0	7.0						
9.5	10.0	11.0	12.0	10.5	9.0	9.0						
24.5	26.0	27.5	29.0	25.0	21.0	16.5						
44.5	47.0	48.5	50.0	45.0	40.0	33.5						
67.5	70.0	71.0	72.0	67.5	63.0	55.5						
92.0	94.0	94.5	95.0	91.5	88.0	80.5						



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**CANDELA DISTRIBUTION (continued):**

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
121.0	120.5	120.0	117.0	114.0	108.0	0°	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	1783.9	1768.3	1751.2	1728.4	1732.4	1704.7
182.0	180.5	179.0	176.5	174.0	171.0	5°	1877.7	1850.8	1814.0	1767.5	1724.3	1668.8
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	1867.9	1824.7	1763.5	1693.3	1636.1	1556.2
250.0	248.0	246.0	244.5	243.0	240.0	10°	1783.9	1727.5	1677.8	1605.1	1530.9	1460.7
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	1666.3	1634.5	1591.3	1536.6	1464.8	1393.0
315.0	314.0	313.0	311.5	310.0	307.5	15°	1538.2	1540.7	1514.6	1499.9	1464.0	1406.8
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	1433.0	1457.4	1471.3	1494.2	1498.2	1470.5
381.0	379.0	377.0	374.5	372.0	371.0	20°	1362.8	1397.1	1440.3	1503.1	1569.2	1597.8
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	1323.6	1366.0	1435.4	1549.6	1670.4	1743.1
448.0	445.5	443.0	440.0	437.0	436.0	25°	1316.3	1372.6	1469.7	1609.2	1765.9	1867.9
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	1328.5	1401.9	1517.0	1676.1	1830.4	1978.1
502.0	501.0	500.0	498.5	497.0	494.0	30°	1367.7	1453.4	1579.0	1750.4	1910.3	2057.2
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	1405.2	1511.3	1650.0	1817.3	1978.1	2124.1
562.0	559.0	556.0	553.5	551.0	550.5	35°	1465.6	1572.5	1714.5	1868.7	2024.6	2190.2
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	1557.8	1651.7	1765.1	1908.7	2071.1	2242.5
600.0	598.5	597.0	595.0	593.0	593.0	40°	1689.2	1751.2	1824.7	1938.1	2093.9	2277.6
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	1885.9	1898.9	1924.2	1983.0	2114.3	2318.4
631.0	628.5	626.0	627.0	628.0	629.0	45°	2139.6	2100.5	2078.4	2070.3	2160.0	2344.5
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	2434.2	2357.5	2269.4	2227.0	2248.2	2386.1
664.0	661.0	658.0	656.5	655.0	655.0	50°	2817.8	2692.9	2519.9	2397.5	2386.9	2508.5
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	3169.5	3006.3	2788.4	2644.0	2585.2	2737.0
677.0	674.5	672.0	672.5	673.0	673.0	55°	3501.6	3375.9	3129.5	2950.0	2929.6	3039.7
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	3792.9	3684.4	3482.8	3248.6	3256.8	3363.7
689.0	687.5	686.0	688.5	691.0	692.0	59°	3943.9	3853.3	3666.4	3428.2	3446.1	3593.0
692.0	690.5	689.0	689.5	690.0	690.0	60°	3997.8	3921.9	3744.0	3543.2	3566.1	3718.7
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	3993.7	3944.7	3815.8	3721.1	3837.8	3949.6
699.0	696.5	694.0	694.5	695.0	696.0	65°	3612.6	3538.3	3523.6	3689.3	3914.5	4022.2
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	2873.3	2908.3	3047.9	3332.7	3710.5	3867.2
						70°	2133.9	2195.9	2382.0	2739.4	3258.4	3529.3
						72.5°	1569.2	1631.3	1802.6	2194.3	2680.7	2920.6
						75°	1231.4	1250.2	1373.4	1681.0	2112.7	2309.4
						77.5°	1137.6	1081.2	1030.7	1195.5	1424.8	1593.7
						80°	1059.2	952.3	833.2	882.9	938.4	1118.0
						82.5°	822.6	751.6	658.5	722.2	748.3	754.0
						85°	481.5	428.4	542.7	768.7	760.5	665.9
						87.5°	169.7	220.3	248.1	426.0	514.9	445.6
						90°	8.0	10.4	15.3	15.7	19.2	10.1
						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°
1601.9	1601.9	1601.9	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
1682.7	1659.8	1658.2	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
1624.7	1573.3	1557.0	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
1486.8	1427.2	1415.0	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
1370.9	1304.8	1293.4	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
1311.4	1248.5	1234.7	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
1334.2	1264.9	1257.5	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
1419.9	1346.5	1349.7	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
1566.8	1519.5	1508.0	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
1759.4	1708.0	1693.3	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
1923.4	1897.3	1887.5	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
2041.7	2054.0	2044.2	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
2136.4	2177.2	2172.3	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
2233.5	2312.6	2315.9	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
2305.3	2444.8	2473.4	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
2397.5	2584.4	2613.8	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
2467.7	2687.2	2723.1	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
2536.2	2772.1	2811.2	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
2592.5	2856.1	2896.1	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
2656.2	2937.7	2976.9	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
2770.4	3065.8	3112.4	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
3016.1	3303.3	3369.4	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
3371.0	3631.4	3683.6	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
3690.9	3854.1	3868.0	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
3822.3	3915.3	3911.3	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
3918.6	3930.0	3907.2	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
3970.8	3862.3	3823.1	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
3834.5	3683.6	3632.2	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
3441.2	3361.2	3302.5	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
2927.1	2724.7	2686.4								
2218.8	1952.0	1894.8								
1550.5	1230.6	1153.1								
1019.2	789.9	760.5								
661.0	524.7	515.7								
461.1	344.4	317.4								
283.2	115.1	110.2								
88.1	53.0	47.3								
7.4	8.3	8.3								
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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