

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: P227294

Luminaire Tested: **ISW-AF-1200-LED-E1-SLR-7030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227294  
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-7030-ULG  
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, WITH  
UPLIGHT GLOW  
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6996.3 lumens  
Efficiency: N/A  
Efficacy: 84.6 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

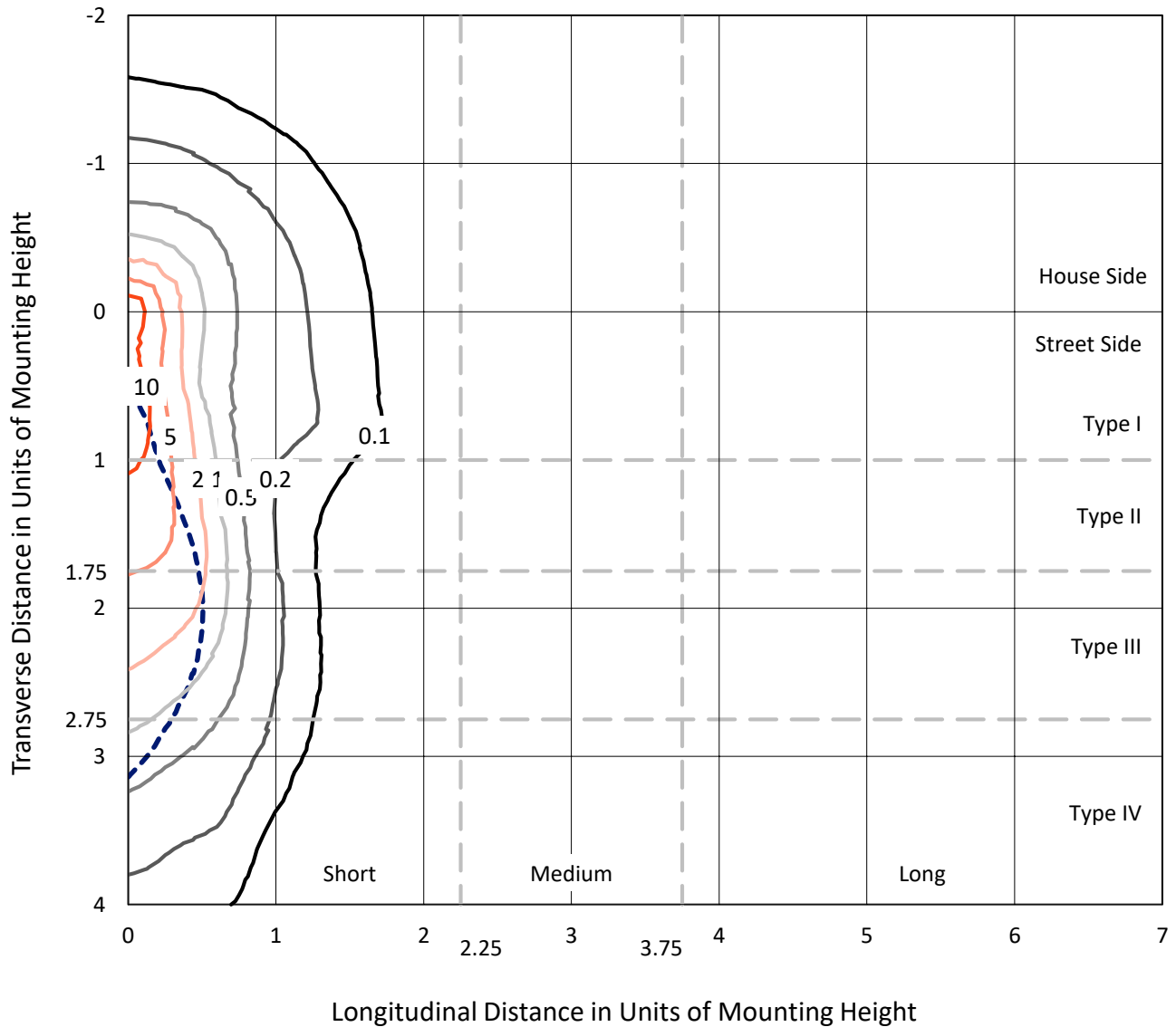


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

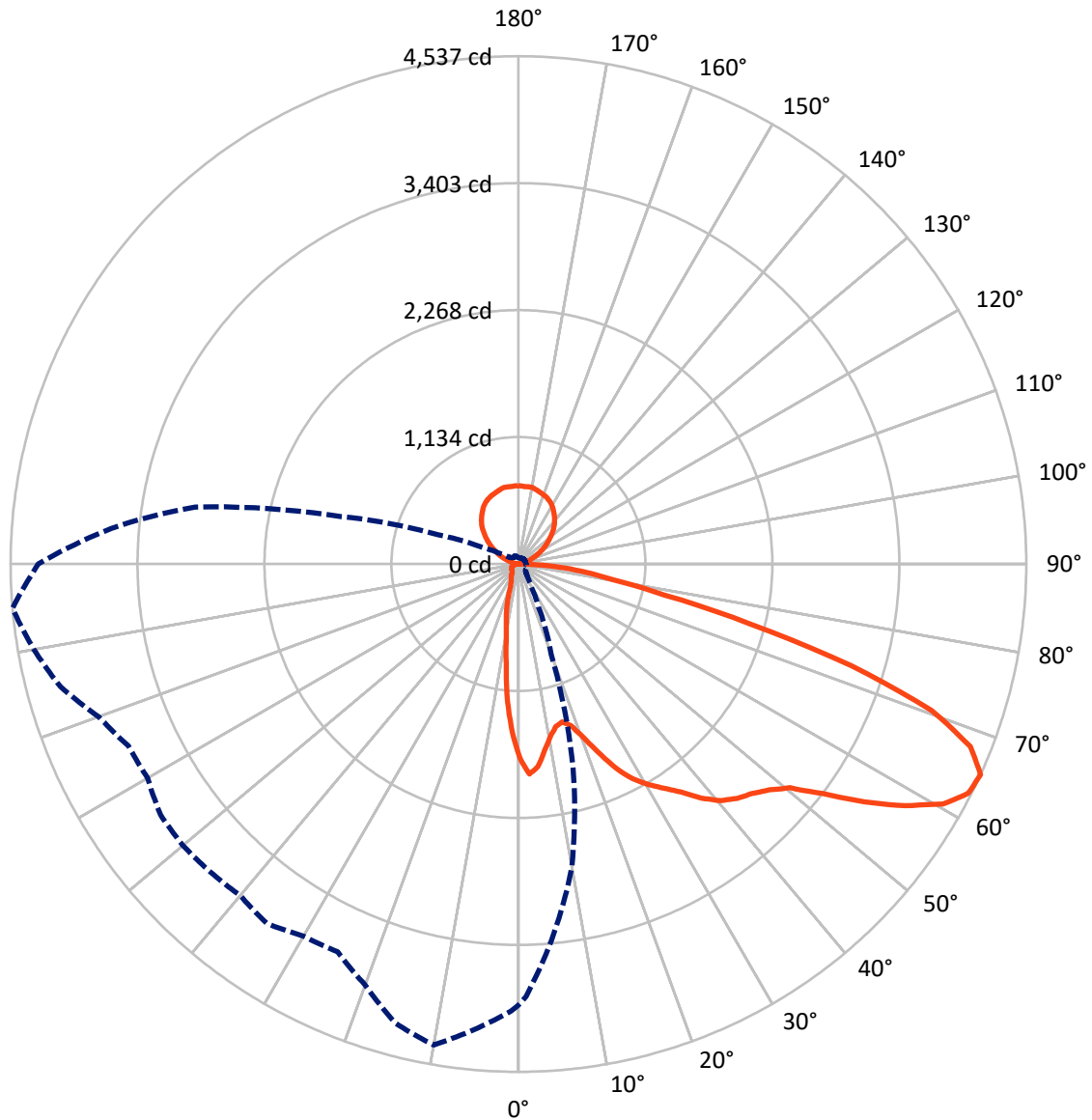


Based on 10 foot mounting height. Maximum calculated value = 17.4 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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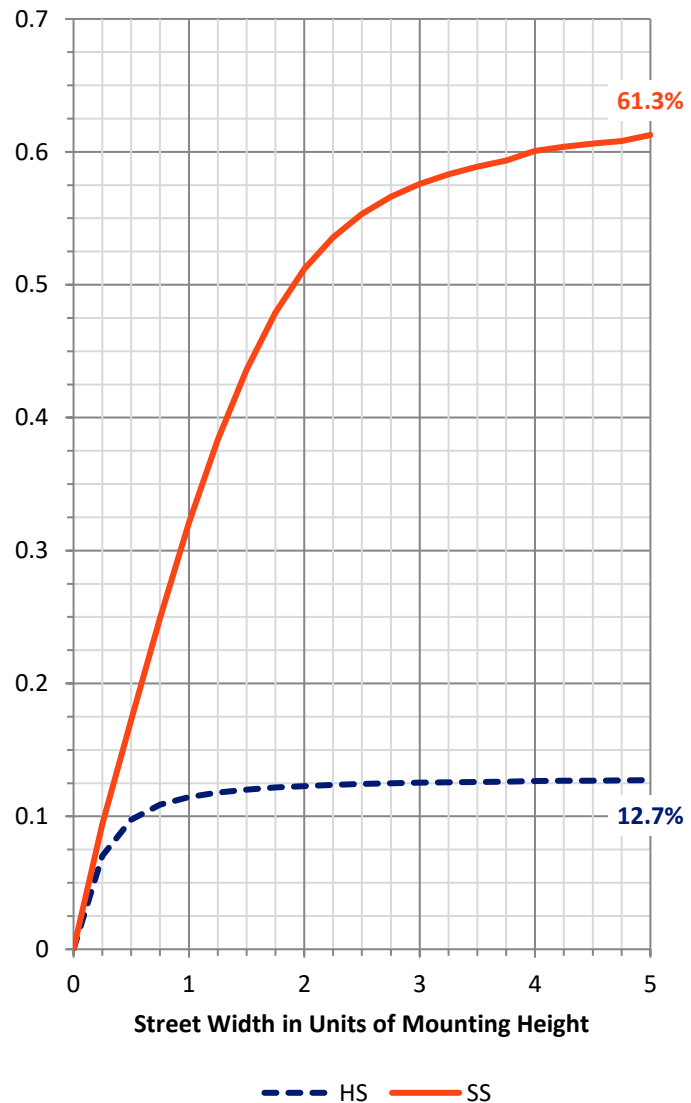
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	902.8	867.6	1770.4
	% Fixture	12.9	12.4	25.3
<b>Street Side</b>	Lumens	4358.1	867.8	5225.9
	% Fixture	62.3	12.4	74.7
<b>Total</b>	Lumens	5260.9	1735.4	6996.3
	% Fixture	75.2	24.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.8	1.8
10°-20°	247.7	3.5
20°-30°	353.2	5.0
30°-40°	512.4	7.3
40°-50°	733.1	10.5
50°-60°	1125.5	16.1
60°-70°	1302.8	18.6
70°-80°	664.6	9.5
80°-90°	192.8	2.8
90°-100°	9.5	0.1
100°-110°	57.4	0.8
110°-120°	166.1	2.4
120°-130°	273.2	3.9
130°-140°	336.8	4.8
140°-150°	344.6	4.9
150°-160°	290.3	4.1
160°-170°	191.2	2.7
170°-180°	66.3	0.9
0°-90°	5260.9	75.2
0°-180°	6996.3	100.0



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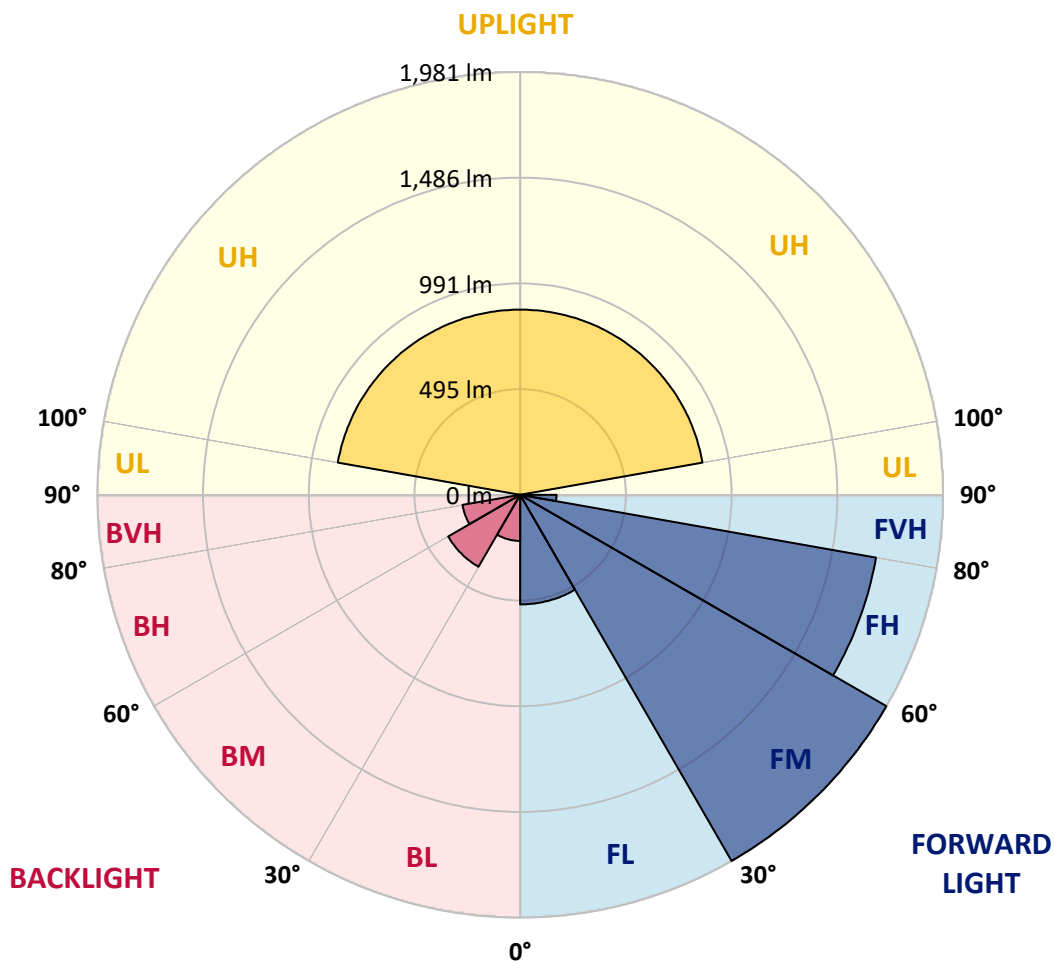
CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-7030-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.7	7.3			
FM	(30°-60°)	1981.4	28.3			
FH	(60°-80°)	1693.0	24.2			G1/1800
FVH	(80°-90°)	170.0	2.4			G2/225
BL	(0°-30°)	216.0	3.1	B1/500		
BM	(30°-60°)	389.6	5.6	B1/1000		
BH	(60°-80°)	274.4	3.9	B1/500		G1/500
BVH	(80°-90°)	22.8	0.3			G1/100
UL	(90°-100°)	9.5	0.1		U1/10	
UH	(100°-180°)	867.6	12.4		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°	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7
2.5°	1798.8	1788.2	1774.9	1751.9	1731.5	1702.3	1695.2	1658.9	1635.9	1641.2	1599.6
5°	1689.0	1682.8	1650.1	1598.7	1565.1	1498.7	1460.6	1441.2	1386.3	1379.2	1364.2
7.5°	1535.0	1516.4	1463.3	1399.6	1342.0	1293.3	1232.3	1185.3	1143.7	1118.1	1072.9
10°	1403.1	1383.6	1326.1	1248.2	1179.1	1111.0	1061.4	1000.3	941.0	895.0	858.7
12.5°	1339.4	1318.1	1250.8	1160.5	1083.5	998.5	928.6	868.4	835.7	812.6	782.6
15°	1364.2	1333.2	1252.6	1144.6	1049.0	958.7	884.4	819.7	780.8	745.4	710.0
17.5°	1464.2	1426.1	1334.1	1203.9	1071.1	954.3	848.1	774.6	712.6	659.5	611.7
20°	1635.9	1607.6	1473.9	1291.6	1118.9	956.9	817.1	720.6	645.3	578.1	514.3
22.5°	1836.9	1794.4	1663.4	1410.2	1180.0	972.9	797.6	675.4	586.0	495.7	426.7
25°	2047.6	2014.8	1841.3	1569.5	1273.9	1005.6	782.6	635.6	516.1	416.1	339.9
27.5°	2217.5	2188.3	2016.6	1722.7	1359.7	1034.0	760.4	597.5	460.3	339.9	255.8
30°	2356.5	2331.7	2152.0	1848.4	1464.2	1043.7	729.4	553.3	398.4	274.4	211.6
32.5°	2512.3	2484.9	2282.1	1936.0	1511.1	1034.8	694.0	511.7	348.8	242.6	181.5
35°	2683.2	2651.3	2427.3	2030.7	1550.1	1003.9	663.9	481.6	324.9	220.4	161.1
37.5°	2835.4	2815.1	2558.3	2124.6	1594.3	952.5	634.7	448.8	308.9	204.5	145.2
40°	2954.0	2948.7	2703.5	2202.5	1628.8	915.3	610.8	423.1	288.6	198.3	139.9
42.5°	3049.6	3047.9	2822.1	2272.4	1637.7	882.6	592.2	400.1	270.0	183.2	142.5
45°	3141.7	3140.8	2937.2	2369.8	1643.9	884.4	578.1	386.0	254.1	173.5	134.6
47.5°	3229.3	3242.6	3057.6	2505.2	1709.4	914.5	572.7	372.7	241.7	162.9	127.5
50°	3376.3	3363.0	3247.9	2688.5	1814.7	972.9	563.9	361.2	230.2	153.1	120.4
52.5°	3655.1	3640.1	3537.4	2933.7	1929.8	1033.1	552.4	345.2	216.9	142.5	112.4
55°	3996.0	4016.3	3873.8	3232.0	2086.5	1083.5	540.0	324.0	199.2	130.1	107.1
57.5°	4196.0	4179.2	4016.3	3403.7	2183.0	1109.2	532.0	299.2	171.7	119.5	101.8
59°	4242.9	4214.6	3992.4	3433.0	2208.7	1096.8	527.6	275.3	157.6	114.2	99.1
60°	4238.5	4204.0	3954.4	3414.4	2215.7	1081.8	520.5	261.1	149.6	111.5	98.3
62.5°	4147.3	4093.3	3738.4	3189.5	2116.6	1006.5	491.3	227.5	139.0	108.0	92.9
65°	3940.2	3864.1	3375.4	2750.4	1889.1	856.9	424.9	215.1	141.6	106.2	89.4
67.5°	3582.6	3521.5	2908.9	2275.9	1505.8	692.3	367.4	209.8	145.2	108.0	84.1
70°	2914.2	2862.0	2269.7	1704.1	1127.8	550.6	333.7	207.1	142.5	103.6	79.7
72.5°	2055.5	1965.2	1508.4	1193.3	715.3	442.6	289.5	195.6	139.0	100.0	72.6
75°	1250.8	1267.7	958.7	869.3	451.5	303.6	227.5	164.7	123.0	89.4	65.5
77.5°	825.0	824.2	707.3	613.5	229.3	188.6	161.1	126.6	96.5	73.5	56.7
80°	559.5	565.7	513.4	418.7	127.5	113.3	105.3	92.1	70.8	55.8	46.9
82.5°	344.4	345.2	397.5	313.4	85.0	71.7	67.3	62.0	50.5	43.4	36.3
85°	119.5	122.2	139.0	221.3	57.5	46.9	46.9	43.4	38.1	29.2	23.9
87.5°	51.3	50.5	60.2	60.2	28.3	23.9	22.1	22.1	21.2	15.9	13.3
90°	8.5	7.7	7.7	9.5	11.4	13.7	13.3	14.2	14.2	12.8	10.5
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°	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7
2.5°	1587.2	1577.5	1550.1	1543.0	1551.8	1534.1	1529.7	1525.3	1492.5	1509.3	1489.9
5°	1327.0	1324.3	1268.5	1280.1	1268.5	1249.1	1241.1	1259.7	1226.9	1234.0	1238.4
7.5°	1019.8	1009.2	972.0	947.2	932.2	918.9	902.1	874.6	895.9	891.4	925.1
10°	827.7	804.7	781.7	747.1	727.7	709.1	689.6	679.0	654.2	651.5	640.0
12.5°	758.6	725.9	696.7	666.6	646.2	609.0	578.1	558.6	542.7	517.9	499.3
15°	666.6	639.1	601.1	571.9	540.0	506.4	476.3	451.5	440.0	416.9	406.3
17.5°	573.6	532.0	486.0	456.8	412.5	378.0	353.2	337.3	320.5	306.3	293.9
20°	462.1	408.1	358.5	321.3	286.8	253.2	241.7	222.2	215.1	209.8	214.2
22.5°	351.4	295.7	244.3	216.0	197.4	188.6	178.8	175.3	172.6	171.7	173.5
25°	257.6	210.7	185.9	175.3	168.2	162.9	159.3	156.7	154.9	154.0	154.9
27.5°	199.2	174.4	162.0	154.9	149.6	146.1	144.3	141.6	140.8	139.9	140.8
30°	172.6	159.3	150.5	143.4	137.2	131.0	128.4	127.5	128.4	129.2	128.4
32.5°	150.5	140.8	131.0	124.8	120.4	116.9	116.9	115.1	115.1	117.7	118.6
35°	136.3	126.6	119.5	111.5	106.2	102.7	100.0	98.3	99.1	99.1	101.8
37.5°	124.8	117.7	111.5	104.5	99.1	95.6	93.8	92.1	91.2	90.3	90.3
40°	116.9	112.4	107.1	100.0	94.7	91.2	89.4	87.6	86.8	85.9	85.9
42.5°	116.9	108.0	104.5	98.3	92.1	88.5	85.9	84.1	82.3	82.3	82.3
45°	128.4	110.7	104.5	97.4	91.2	86.8	84.1	81.4	79.7	79.7	78.8
47.5°	124.8	123.9	106.2	97.4	92.1	86.8	83.2	80.6	78.8	77.9	77.0
50°	118.6	129.2	118.6	100.0	92.1	85.9	82.3	79.7	77.0	76.1	76.1
52.5°	115.1	120.4	123.0	103.6	92.9	85.9	81.4	78.8	77.0	75.2	74.4
55°	106.2	113.3	117.7	101.8	92.9	84.1	79.7	77.0	74.4	73.5	72.6
57.5°	97.4	102.7	113.3	101.8	90.3	83.2	77.9	74.4	72.6	71.7	70.8
59°	94.7	94.7	100.9	104.5	88.5	82.3	77.0	73.5	71.7	70.8	69.0
60°	92.1	92.1	95.6	107.1	87.6	81.4	76.1	72.6	69.9	69.9	69.0
62.5°	88.5	85.9	87.6	100.0	85.0	79.7	74.4	70.8	68.2	68.2	67.3
65°	84.1	80.6	80.6	83.2	79.7	76.1	72.6	69.0	65.5	65.5	66.4
67.5°	79.7	76.1	75.2	75.2	73.5	72.6	69.0	65.5	63.7	63.7	63.7
70°	73.5	70.8	69.9	68.2	68.2	67.3	64.6	62.0	60.2	61.1	60.2
72.5°	66.4	64.6	62.9	62.9	62.0	61.1	58.4	56.7	55.8	56.7	56.7
75°	59.3	56.7	56.7	54.9	54.9	54.0	51.3	50.5	49.6	50.5	51.3
77.5°	50.5	48.7	47.8	47.8	47.8	47.8	44.3	43.4	43.4	45.1	45.1
80°	41.6	40.7	39.8	39.8	39.8	39.0	37.2	36.3	36.3	37.2	38.1
82.5°	31.9	30.1	30.1	31.0	31.9	31.9	29.2	27.4	27.4	29.2	31.0
85°	21.2	21.2	21.2	22.1	22.1	23.0	21.2	18.6	19.5	20.4	23.0
87.5°	11.5	12.4	11.5	10.6	12.4	11.5	11.5	10.6	11.5	12.4	13.3
90°	10.5	10.5	10.7	10.8	9.9	10.8	9.8	9.7	7.9	7.9	9.8
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-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	117.0	116.0	117.5
112.5°	145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	147.0	147.0	148.0
115°	176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	178.0	177.0	178.0
117.5°	208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	209.0	208.0	209.0
120°	244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	243.0	243.0	244.0
122.5°	278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	277.0	276.0	277.0
125°	311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	310.0	310.0	310.0
127.5°	342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	347.0	345.0	345.5
130°	374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	380.0	379.0	380.0
132.5°	408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	415.0	414.0	414.0
135°	440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	451.0	450.0	448.5
137.5°	470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	482.0	481.0	478.5
140°	498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	511.0	509.0	506.5
142.5°	526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	536.0	534.0	533.5
145°	553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	560.0	558.0	559.5
147.5°	577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	585.0	583.0	584.5
150°	595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	610.0	606.0	604.5
152.5°	610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	628.0	623.0	620.5
155°	627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	641.0	638.0	637.0
157.5°	644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	655.0	650.0	650.0
160°	656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	666.0	660.0	660.5
162.5°	665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	674.0	668.0	669.0
165°	672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	682.0	678.0	679.0
167.5°	681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	694.0	688.0	688.0
170°	688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	701.0	696.0	695.0
172.5°	689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	701.0	696.0	695.0
175°	690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	699.0	694.0	695.0
177.5°	694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	702.0	698.0	699.5
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



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CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7
2.5°	1507.6	1492.5	1484.5	1515.5	1512.9	1486.3	1486.3	1504.9	1505.8	1489.9	1508.4
5°	1243.8	1228.7	1242.9	1230.5	1237.6	1236.7	1247.3	1227.8	1235.8	1228.7	1211.9
7.5°	922.4	952.5	968.4	948.1	973.8	987.0	968.4	987.0	957.8	933.9	956.9
10°	634.7	668.4	662.2	694.9	707.3	714.4	727.7	710.8	690.5	684.3	667.5
12.5°	492.2	485.1	482.5	495.7	503.7	492.2	501.9	491.3	480.7	462.1	461.2
15°	385.1	373.6	365.6	350.6	345.2	347.9	352.3	352.3	331.1	332.0	339.9
17.5°	292.1	289.5	283.3	270.9	262.9	265.6	264.7	260.3	257.6	259.4	269.1
20°	219.5	216.9	220.4	224.0	221.3	222.2	218.7	214.2	212.5	214.2	216.0
22.5°	173.5	177.0	181.5	186.8	187.7	192.1	191.2	192.1	188.6	186.8	182.4
25°	158.5	160.2	157.6	158.5	158.5	162.9	162.0	162.0	158.5	157.6	158.5
27.5°	139.9	139.0	139.0	140.8	140.8	143.4	145.2	143.4	139.9	139.0	139.9
30°	129.2	128.4	127.5	128.4	127.5	128.4	130.1	130.1	128.4	125.7	126.6
32.5°	118.6	118.6	117.7	118.6	117.7	117.7	119.5	116.9	116.9	116.0	116.0
35°	104.5	106.2	108.0	108.9	108.9	108.9	110.7	108.0	107.1	106.2	106.2
37.5°	90.3	92.1	97.4	100.0	100.9	102.7	103.6	101.8	100.0	98.3	96.5
40°	85.9	85.9	87.6	91.2	94.7	95.6	97.4	94.7	93.8	91.2	88.5
42.5°	82.3	83.2	83.2	84.1	85.0	86.8	89.4	86.8	85.0	83.2	80.6
45°	79.7	79.7	79.7	79.7	78.8	78.8	79.7	77.9	77.0	76.1	76.1
47.5°	77.9	77.0	76.1	75.2	74.4	73.5	73.5	71.7	71.7	71.7	71.7
50°	76.1	74.4	73.5	72.6	70.8	70.8	70.8	69.0	68.2	68.2	69.0
52.5°	73.5	72.6	71.7	70.8	69.9	69.0	69.0	67.3	66.4	66.4	66.4
55°	72.6	71.7	69.9	69.0	68.2	69.0	68.2	67.3	65.5	65.5	65.5
57.5°	69.9	70.8	69.9	68.2	68.2	68.2	68.2	66.4	65.5	63.7	64.6
59°	69.0	69.9	69.0	68.2	67.3	68.2	68.2	65.5	64.6	63.7	63.7
60°	68.2	69.0	68.2	67.3	67.3	68.2	67.3	66.4	64.6	62.0	62.9
62.5°	67.3	67.3	66.4	66.4	65.5	66.4	65.5	63.7	62.0	60.2	59.3
65°	65.5	65.5	64.6	64.6	63.7	63.7	63.7	62.0	60.2	58.4	58.4
67.5°	64.6	63.7	62.9	62.9	62.0	62.0	62.0	60.2	57.5	56.7	55.8
70°	61.1	60.2	60.2	59.3	58.4	59.3	60.2	57.5	54.9	53.1	52.2
72.5°	57.5	56.7	56.7	55.8	55.8	56.7	57.5	54.9	51.3	49.6	48.7
75°	52.2	51.3	51.3	51.3	51.3	53.1	53.1	50.5	47.8	45.1	43.4
77.5°	45.1	46.0	46.0	46.0	46.0	47.8	47.8	46.0	43.4	41.6	39.0
80°	39.0	39.0	39.8	39.8	40.7	40.7	39.8	39.0	38.1	36.3	32.8
82.5°	32.8	32.8	32.8	32.8	32.8	31.9	30.1	31.9	31.9	30.1	27.4
85°	25.7	25.7	25.7	26.6	26.6	23.9	21.2	21.2	23.9	23.0	21.2
87.5°	15.0	15.0	15.9	18.6	16.8	15.9	13.3	14.2	13.3	15.0	12.4
90°	12.5	11.7	11.7	8.9	8.8	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°
1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	110°	80.5
1510.2	1513.8	1521.7	1519.1	1548.3	1539.4	1559.8	1587.2	1612.9	1600.5	1604.1	112.5°	113.5
1242.0	1246.4	1212.8	1233.1	1263.2	1250.8	1246.4	1287.1	1277.4	1323.4	1285.4	115°	153.0
919.8	909.1	893.2	885.2	863.1	863.1	904.7	923.3	920.6	952.5	985.3	117.5°	193.0
646.2	633.8	614.4	609.0	631.2	641.8	660.4	679.0	703.8	740.1	761.3	120°	229.5
474.5	470.1	474.5	487.8	508.1	523.2	551.5	584.3	611.7	640.9	669.2	122.5°	264.0
358.5	367.4	378.9	387.7	403.7	432.0	447.0	483.3	508.1	533.8	566.6	125°	297.5
278.8	284.2	286.8	290.4	303.6	324.0	324.0	361.2	393.9	427.6	455.0	127.5°	331.0
212.5	212.5	203.6	208.9	210.7	208.9	219.5	240.8	262.0	284.2	327.5	130°	364.0
177.9	172.6	170.0	169.1	170.0	173.5	179.7	187.7	191.2	200.9	217.8	132.5°	397.0
157.6	156.7	154.0	154.0	155.8	156.7	162.9	170.0	171.7	174.4	180.6	135°	429.0
139.0	140.8	143.4	142.5	143.4	145.2	149.6	155.8	159.3	160.2	164.7	137.5°	459.5
125.7	127.5	128.4	131.0	131.0	131.9	135.4	141.6	144.3	148.7	153.1	140°	488.0
116.9	117.7	118.6	117.7	118.6	118.6	123.0	129.2	132.8	135.4	138.1	142.5°	517.5
107.1	106.2	106.2	106.2	103.6	102.7	104.5	110.7	111.5	114.2	120.4	145°	545.5
95.6	92.9	91.2	91.2	91.2	92.1	96.5	102.7	103.6	106.2	111.5	147.5°	572.5
85.0	84.1	84.1	85.0	85.9	87.6	91.2	97.4	98.3	100.9	105.3	150°	593.0
79.7	79.7	79.7	80.6	81.4	82.3	86.8	92.9	94.7	97.4	102.7	152.5°	608.5
76.1	77.0	76.1	76.1	77.0	78.8	83.2	90.3	92.9	95.6	100.9	155°	626.0
73.5	73.5	73.5	74.4	74.4	76.1	81.4	88.5	90.3	93.8	101.8	157.5°	643.5
69.9	71.7	70.8	71.7	72.6	74.4	79.7	86.8	89.4	94.7	103.6	160°	657.5
68.2	68.2	68.2	69.0	70.8	71.7	76.1	84.1	87.6	94.7	108.9	162.5°	667.0
67.3	65.5	65.5	66.4	68.2	69.9	74.4	82.3	86.8	93.8	108.0	165°	676.0
66.4	63.7	62.9	63.7	65.5	66.4	71.7	79.7	85.9	91.2	104.5	167.5°	685.0
63.7	62.0	61.1	62.0	63.7	65.5	69.9	77.9	82.3	89.4	100.0	170°	692.0
62.9	60.2	60.2	61.1	62.9	63.7	68.2	76.1	80.6	90.3	102.7	172.5°	694.0
59.3	58.4	58.4	59.3	59.3	61.1	66.4	74.4	77.9	92.1	85.9	175°	696.0
56.7	56.7	56.7	56.7	57.5	58.4	64.6	72.6	74.4	79.7	73.5	177.5°	699.5
54.9	54.9	54.9	54.9	54.9	56.7	62.0	69.9	70.8	69.9	67.3	180°	700.0
51.3	51.3	51.3	51.3	52.2	53.1	58.4	65.5	65.5	63.7	63.7		
48.7	47.8	47.8	47.8	47.8	48.7	54.0	61.1	60.2	59.3	59.3		
43.4	43.4	43.4	43.4	43.4	43.4	48.7	55.8	54.9	54.0	53.1		
38.1	38.1	39.0	38.1	37.2	36.3	41.6	49.6	49.6	48.7	47.8		
32.8	31.9	32.8	31.9	30.1	30.1	34.5	41.6	42.5	41.6	39.8		
26.6	25.7	25.7	25.7	22.1	22.1	26.6	33.6	33.6	32.8	31.0		
20.4	19.5	18.6	17.7	15.0	15.0	18.6	24.8	25.7	22.1	21.2		
10.6	10.6	10.6	8.0	7.1	6.2	9.7	15.0	15.0	12.4	10.6		
7.5	7.0	6.0	5.0	5.0	5.0	6.0	7.9	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		

'227294  
 ISW-AF-1200-LED-E1-SLR-7030-ULG

REPORT NUMBER: P227294  
 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°	1737.7	1737.7
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	1626.2	1634.1
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	1313.7	1344.7
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	993.2	1034.8
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	795.8	824.2
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	698.5	739.2
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	599.3	643.6
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	491.3	545.3
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	375.3	428.5
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	263.8	308.9
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	192.1	212.5
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	170.9	178.8
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	160.2	165.5
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	144.3	149.6
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	126.6	133.7
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	117.7	123.0
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	112.4	113.3
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	108.0	108.0
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	105.3	108.0
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	107.1	118.6
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	120.4	116.9
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	123.0	109.8
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	112.4	105.3
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	100.9	92.1
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	90.3	85.0
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	84.1	82.3
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	77.0	78.8
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	71.7	75.2
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	69.0	71.7
										70°	64.6	66.4
										72.5°	60.2	61.1
										75°	54.0	54.9
										77.5°	47.8	47.8
										80°	39.0	39.0
										82.5°	30.1	29.2
										85°	19.5	18.6
										87.5°	8.9	7.1
										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: P227294

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

200-LED-E1-SLR-7030-ULG

**tinued):**

**CANDELA DISTRIBUTION (continued):**

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	110°	102.0	108.0	114.0
1674.0	1698.8	1718.2	1714.7	1756.3	1781.1	1784.6	1810.3	1835.1	112.5°	134.0	138.5	143.0
1369.5	1404.0	1437.6	1462.4	1527.9	1581.9	1623.5	1667.8	1720.0	115°	168.0	171.0	174.0
1091.5	1120.7	1175.6	1215.4	1284.5	1347.3	1408.4	1478.3	1537.7	117.5°	202.0	203.5	205.0
855.1	892.3	943.7	1018.0	1080.0	1151.7	1228.7	1295.1	1394.2	120°	237.0	240.0	243.0
768.4	791.4	833.9	869.3	946.3	1022.4	1109.2	1200.4	1291.6	122.5°	271.0	274.0	277.0
679.0	719.7	759.5	810.9	878.2	961.4	1055.2	1153.5	1256.2	125°	305.0	307.5	310.0
592.2	646.2	689.6	745.4	820.6	926.0	1048.1	1170.3	1290.7	127.5°	339.0	339.5	340.0
486.0	536.5	612.6	669.2	767.5	899.4	1056.1	1225.2	1388.1	130°	370.0	371.0	372.0
382.4	436.4	523.2	607.3	715.3	885.2	1088.0	1315.5	1533.2	132.5°	404.0	404.5	405.0
273.5	347.0	432.9	539.1	670.1	876.4	1131.3	1427.0	1720.0	135°	435.0	436.0	437.0
204.5	255.8	360.3	476.3	619.7	860.5	1177.4	1530.6	1847.5	137.5°	464.0	466.0	468.0
182.4	218.7	286.8	409.0	557.7	829.5	1211.9	1628.8	1963.5	140°	491.0	494.0	497.0
159.3	187.7	241.7	345.2	501.9	781.7	1226.9	1681.1	2044.0	142.5°	521.0	523.0	525.0
139.9	166.4	221.3	320.5	473.6	727.7	1224.3	1733.3	2144.9	145°	550.0	550.5	551.0
127.5	150.5	212.5	314.3	451.5	678.1	1226.9	1817.4	2294.5	147.5°	574.0	574.5	575.0
117.7	144.3	205.4	301.0	440.8	650.6	1237.6	1891.8	2422.9	150°	593.0	593.0	593.0
117.7	142.5	187.7	282.4	435.5	653.3	1242.0	1949.3	2518.5	152.5°	610.0	610.0	610.0
123.9	133.7	174.4	271.8	439.1	672.8	1236.7	2007.7	2611.5	155°	630.0	629.0	628.0
117.7	124.8	165.5	270.0	439.1	686.9	1252.6	2080.3	2733.6	157.5°	646.0	645.5	645.0
111.5	116.0	162.9	267.3	430.2	700.2	1318.1	2215.7	2893.0	160°	655.0	655.0	655.0
103.6	108.9	159.3	262.9	420.5	717.0	1434.1	2443.3	3156.8	162.5°	661.0	662.0	663.0
93.8	104.5	154.0	255.8	414.3	747.1	1552.7	2673.4	3471.0	165°	673.0	673.0	673.0
90.3	100.0	141.6	239.0	408.1	779.9	1679.3	2893.8	3753.4	167.5°	688.0	686.5	685.0
87.6	96.5	131.0	226.6	402.8	795.8	1717.4	2977.9	3862.3	170°	693.0	692.0	691.0
85.9	94.7	124.8	216.0	396.6	796.7	1744.8	3009.8	3878.2	172.5°	690.0	690.0	690.0
83.2	91.2	112.4	193.9	377.1	795.8	1747.5	3030.2	3832.2	175°	691.0	690.5	690.0
78.8	87.6	113.3	182.4	341.7	758.6	1637.7	2931.9	3648.9	177.5°	697.0	696.0	695.0
75.2	85.0	119.5	185.0	304.5	663.0	1432.3	2626.5	3256.8	180°	700.0	700.0	700.0
69.9	83.2	124.8	191.2	293.9	550.6	1083.5	2144.9	2727.4				
64.6	82.3	129.2	195.6	282.4	453.2	750.7	1520.8	2041.4				
58.4	75.2	117.7	166.4	233.7	329.3	483.3	995.0	1407.5				
50.5	60.2	85.9	116.9	171.7	230.2	285.9	601.1	920.6				
41.6	45.1	61.1	75.2	114.2	136.3	158.5	339.0	643.6				
31.0	31.9	41.6	47.8	64.6	75.2	94.7	208.0	521.4				
17.7	20.4	28.3	31.9	39.0	47.8	62.0	132.8	409.0				
7.1	8.9	16.8	18.6	21.2	26.6	34.5	77.0	127.5				
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: P227294

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-703C

1-SLR-7030-ULG

**CANDELA DISTRIBUTION (continued):**

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	0°	1737.7	1737.7	1737.7	1737.7
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	1859.9	1878.5	1894.4	1906.8
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	1775.8	1819.2	1871.4	1915.7
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	1626.2	1681.1	1766.0	1818.3
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	1484.5	1565.1	1658.1	1733.3
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	1388.1	1488.1	1576.6	1660.7
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	1361.5	1463.3	1543.0	1620.0
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	1414.6	1516.4	1584.6	1631.5
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	1539.4	1648.3	1691.7	1688.1
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	1710.3	1824.5	1824.5	1789.1
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	1936.0	2018.3	1973.2	1905.9
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	2096.2	2173.3	2094.5	1983.8
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	2229.0	2285.7	2185.7	2052.0
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	2345.9	2387.5	2255.6	2123.7
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	2485.7	2500.8	2328.2	2187.4
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	2640.7	2653.1	2432.6	2257.4
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	2823.0	2778.8	2509.6	2322.0
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	2935.4	2862.9	2565.4	2355.6
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	3024.0	2924.8	2591.1	2375.1
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	3132.9	3016.0	2636.2	2410.5
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	3276.3	3142.6	2750.4	2510.5
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	3570.2	3404.6	2955.8	2684.9
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	3908.3	3751.6	3284.2	2972.6
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	4179.2	4073.9	3577.2	3232.9
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	4279.2	4234.1	3784.4	3453.3
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	4316.4	4355.4	3894.2	3587.9
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	4342.1	4511.2	4250.9	3989.8
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	4289.0	4536.8	4395.2	4235.0
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	4057.9	4354.5	4327.0	4186.3
								70°	3585.2	3915.4	4011.0	3810.9
								72.5°	2697.3	3107.2	3628.6	3315.2
								75°	1757.2	2136.1	3098.3	2839.8
								77.5°	1100.4	1333.2	2210.4	1989.1
								80°	732.1	856.9	1403.1	1277.4
								82.5°	550.6	607.3	964.9	907.4
								85°	290.4	370.0	750.7	951.6
								87.5°	108.9	121.3	564.8	850.7
								90°	7.0	7.0	8.9	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: P227294

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-7030-ULG

J-ULG

**CANDELA DISTRIBUTION (continued):**

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	110°	117.0	116.0	117.5	119.0	120.0
1917.4	1933.4	1943.1	1936.0	1947.5	1950.2	1937.8	112.5°	147.0	147.0	148.0	149.0	149.5
1952.8	1997.1	2029.0	2051.1	2059.9	2067.9	2064.4	115°	178.0	177.0	178.0	179.0	180.5
1887.3	1955.5	2014.8	2055.5	2069.7	2080.3	2070.6	117.5°	209.0	208.0	209.0	210.0	212.5
1814.7	1885.6	1941.3	1982.0	1981.2	1991.8	1973.2	120°	243.0	243.0	244.0	245.0	247.5
1746.6	1815.6	1865.2	1863.4	1851.0	1820.0	1814.7	122.5°	277.0	276.0	277.0	278.0	280.5
1692.6	1728.9	1741.3	1738.6	1703.2	1685.5	1682.8	125°	310.0	310.0	310.0	310.0	312.5
1666.0	1664.2	1635.9	1604.9	1571.3	1569.5	1546.5	127.5°	347.0	345.0	345.5	346.0	346.0
1670.4	1612.9	1560.7	1507.6	1471.3	1463.3	1466.0	130°	380.0	379.0	380.0	381.0	381.0
1726.2	1624.4	1526.1	1472.2	1429.7	1417.3	1422.6	132.5°	415.0	414.0	414.0	414.0	415.0
1796.1	1659.8	1537.7	1455.3	1420.8	1405.8	1408.4	135°	451.0	450.0	448.5	447.0	447.5
1843.1	1700.5	1575.7	1473.9	1427.0	1412.8	1421.7	137.5°	482.0	481.0	478.5	476.0	475.5
1903.3	1756.3	1627.1	1521.7	1451.8	1433.2	1439.4	140°	511.0	509.0	506.5	504.0	503.0
1962.6	1816.5	1699.7	1580.1	1495.2	1460.6	1470.4	142.5°	536.0	534.0	533.5	533.0	533.0
2026.3	1886.4	1768.7	1659.8	1559.8	1505.8	1518.2	145°	560.0	558.0	559.5	561.0	561.5
2100.7	1967.9	1867.0	1766.9	1664.2	1619.1	1624.4	147.5°	585.0	583.0	584.5	586.0	585.5
2172.4	2047.6	1982.9	1908.6	1848.4	1779.3	1779.3	150°	610.0	606.0	604.5	603.0	601.5
2214.9	2151.1	2133.4	2112.2	2076.8	2027.2	2016.6	152.5°	628.0	623.0	620.5	618.0	616.0
2267.1	2274.2	2314.9	2357.4	2368.0	2319.3	2304.3	155°	641.0	638.0	637.0	636.0	633.5
2365.4	2439.7	2573.4	2689.4	2712.4	2752.2	2706.2	157.5°	655.0	650.0	650.0	650.0	649.0
2503.5	2640.7	2866.4	3055.8	3109.8	3113.4	3116.9	160°	666.0	660.0	660.5	661.0	662.5
2661.0	2857.5	3155.9	3381.6	3478.1	3503.8	3485.2	162.5°	674.0	668.0	669.0	670.0	670.5
2931.0	3109.0	3435.6	3679.0	3803.0	3863.2	3847.2	165°	682.0	678.0	679.0	680.0	678.5
3198.4	3419.7	3707.4	3947.3	4079.2	4146.5	4160.6	167.5°	694.0	688.0	688.0	688.0	686.0
3380.7	3587.9	3853.4	4074.7	4204.9	4285.4	4292.5	170°	701.0	696.0	695.0	694.0	691.5
3492.3	3681.7	3941.1	4135.8	4266.0	4334.1	4358.9	172.5°	701.0	696.0	695.0	694.0	693.0
3830.4	3864.9	4042.0	4170.4	4261.5	4292.5	4311.1	175°	699.0	694.0	695.0	696.0	695.5
3988.9	3844.6	3824.2	3903.9	3911.9	3891.5	3865.8	177.5°	702.0	698.0	699.5	701.0	700.0
3768.5	3431.2	3306.4	3295.7	3263.0	3249.7	3168.3	180°	700.0	700.0	700.0	700.0	700.0
3272.7	2786.7	2566.3	2446.8	2519.4	2516.7	2433.5						
2757.5	2262.7	1976.7	1805.0	1783.8	1780.2	1707.6						
2239.7	1775.8	1525.3	1442.1	1342.0	1311.9	1324.3						
1614.7	1267.7	1214.5	1278.3	1286.3	1263.2	1247.3						
1017.1	953.4	1004.7	1120.7	1188.9	1158.8	1170.3						
848.1	750.7	754.2	876.4	922.4	929.5	905.6						
941.0	751.6	616.1	601.1	585.1	368.3	512.6						
848.1	581.6	342.6	282.4	173.5	100.0	103.6						
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°	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	1935.1	1918.3	1899.7	1874.9	1879.4	1849.3
182.0	180.5	179.0	176.5	174.0	171.0	5°	2036.9	2007.7	1967.9	1917.4	1870.5	1810.3
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	2026.3	1979.4	1913.0	1836.9	1774.9	1688.1
250.0	248.0	246.0	244.5	243.0	240.0	10°	1935.1	1874.0	1820.0	1741.3	1660.7	1584.6
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	1807.7	1773.1	1726.2	1666.9	1589.0	1511.1
315.0	314.0	313.0	311.5	310.0	307.5	15°	1668.7	1671.3	1643.0	1627.1	1588.1	1526.1
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	1554.5	1581.0	1596.1	1620.9	1625.3	1595.2
381.0	379.0	377.0	374.5	372.0	371.0	20°	1478.3	1515.5	1562.4	1630.6	1702.3	1733.3
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	1435.9	1481.9	1557.1	1681.1	1812.1	1890.9
448.0	445.5	443.0	440.0	437.0	436.0	25°	1427.9	1489.0	1594.3	1745.7	1915.7	2026.3
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	1441.2	1520.8	1645.7	1818.3	1985.6	2145.8
502.0	501.0	500.0	498.5	497.0	494.0	30°	1483.7	1576.6	1712.9	1898.8	2072.3	2231.7
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	1524.4	1639.5	1790.0	1971.4	2145.8	2304.3
562.0	559.0	556.0	553.5	551.0	550.5	35°	1589.9	1705.9	1859.9	2027.2	2196.3	2376.0
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	1689.9	1791.7	1914.8	2070.6	2246.7	2432.6
600.0	598.5	597.0	595.0	593.0	593.0	40°	1832.4	1899.7	1979.4	2102.4	2271.5	2470.7
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	2045.8	2059.9	2087.4	2151.1	2293.7	2515.0
631.0	628.5	626.0	627.0	628.0	629.0	45°	2321.1	2278.6	2254.7	2245.8	2343.2	2543.3
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	2640.7	2557.5	2461.8	2415.8	2438.8	2588.4
664.0	661.0	658.0	656.5	655.0	655.0	50°	3056.7	2921.3	2733.6	2600.8	2589.3	2721.2
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	3438.3	3261.2	3024.9	2868.2	2804.4	2969.1
677.0	674.5	672.0	672.5	673.0	673.0	55°	3798.6	3662.2	3394.9	3200.1	3178.0	3297.5
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	4114.6	3996.8	3778.2	3524.1	3533.0	3648.9
689.0	687.5	686.0	688.5	691.0	692.0	59°	4278.4	4180.1	3977.4	3718.9	3738.4	3897.7
692.0	690.5	689.0	689.5	690.0	690.0	60°	4336.8	4254.5	4061.5	3843.7	3868.5	4034.0
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	4332.4	4279.2	4139.4	4036.7	4163.3	4284.6
699.0	696.5	694.0	694.5	695.0	696.0	65°	3918.9	3838.4	3822.5	4002.2	4246.5	4363.3
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	3116.9	3155.0	3306.4	3615.3	4025.2	4195.1
						70°	2314.9	2382.2	2584.0	2971.7	3534.8	3828.7
						72.5°	1702.3	1769.6	1955.5	2380.4	2908.0	3168.3
						75°	1335.8	1356.2	1489.9	1823.6	2291.9	2505.2
						77.5°	1234.0	1172.9	1118.1	1296.9	1545.6	1728.9
						80°	1149.0	1033.1	903.8	957.8	1018.0	1212.8
						82.5°	892.3	815.3	714.4	783.4	811.8	818.0
						85°	522.3	464.7	588.7	833.9	825.0	722.4
						87.5°	184.1	239.0	269.1	462.1	558.6	483.3
						90°	8.0	10.7	16.0	16.4	20.3	10.4
						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°
1737.7	1737.7	1737.7	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
1825.4	1800.6	1798.8	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
1762.5	1706.7	1689.0	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
1612.9	1548.3	1535.0	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
1487.2	1415.5	1403.1	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
1422.6	1354.4	1339.4	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
1447.4	1372.1	1364.2	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
1540.3	1460.6	1464.2	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
1699.7	1648.3	1635.9	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
1908.6	1852.8	1836.9	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
2086.5	2058.2	2047.6	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
2214.9	2228.1	2217.5	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
2317.6	2361.8	2356.5	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
2422.9	2508.8	2512.3	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
2500.8	2652.2	2683.2	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
2600.8	2803.5	2835.4	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
2677.0	2915.1	2954.0	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
2751.3	3007.2	3049.6	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
2812.4	3098.3	3141.7	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
2881.4	3186.9	3229.3	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
3005.4	3325.8	3376.3	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
3271.8	3583.4	3655.1	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
3656.9	3939.3	3996.0	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
4003.9	4181.0	4196.0	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
4146.5	4247.4	4242.9	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
4250.9	4263.3	4238.5	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
4307.6	4189.8	4147.3	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
4159.7	3996.0	3940.2	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
3733.0	3646.3	3582.6	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
3175.3	2955.8	2914.2								
2407.0	2117.5	2055.5								
1682.0	1334.9	1250.8								
1105.7	856.9	825.0								
717.0	569.2	559.5								
500.2	373.6	344.4								
307.2	124.8	119.5								
95.6	57.5	51.3								
7.7	8.5	8.5								
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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