

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: P227298

Luminaire Tested: **ISW-AF-1000-LED-E1-SLR-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227298
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-1000-LED-E1-SLR-7050-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) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6957.9 lumens
Efficiency: N/A
Efficacy: 97.6 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): 71.3
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

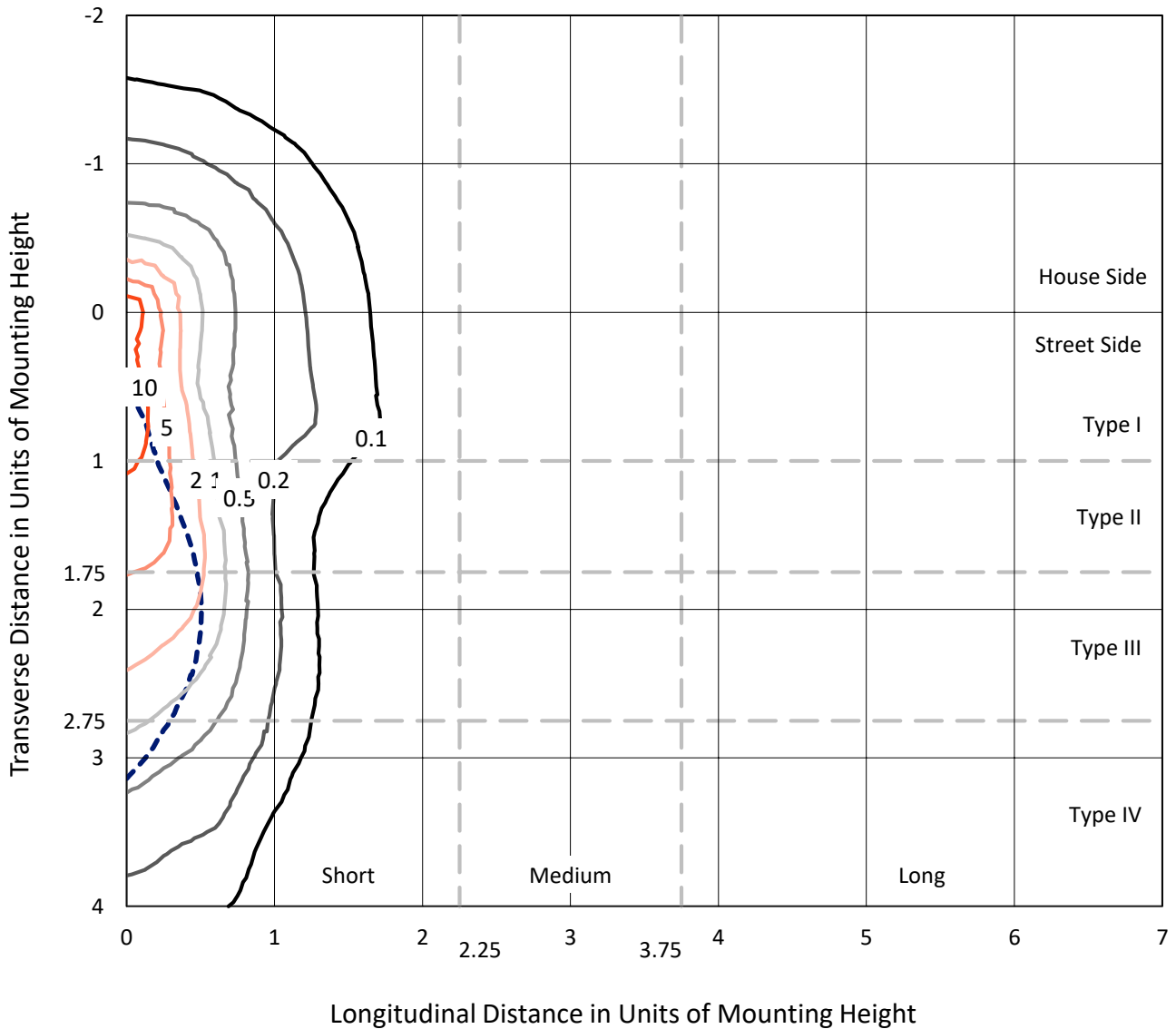


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Iso-Footcandle Lines of Horizontal Illumination

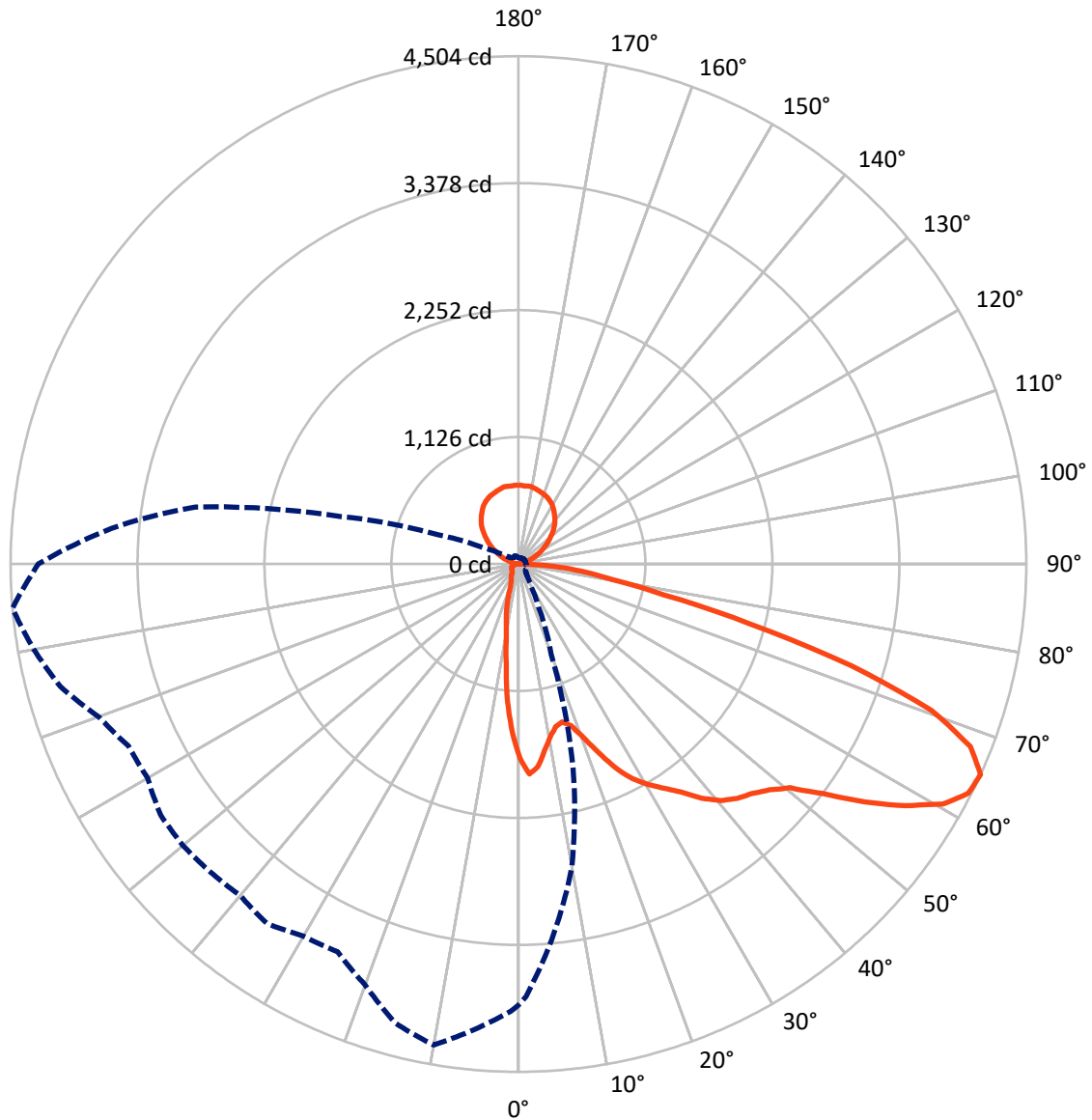
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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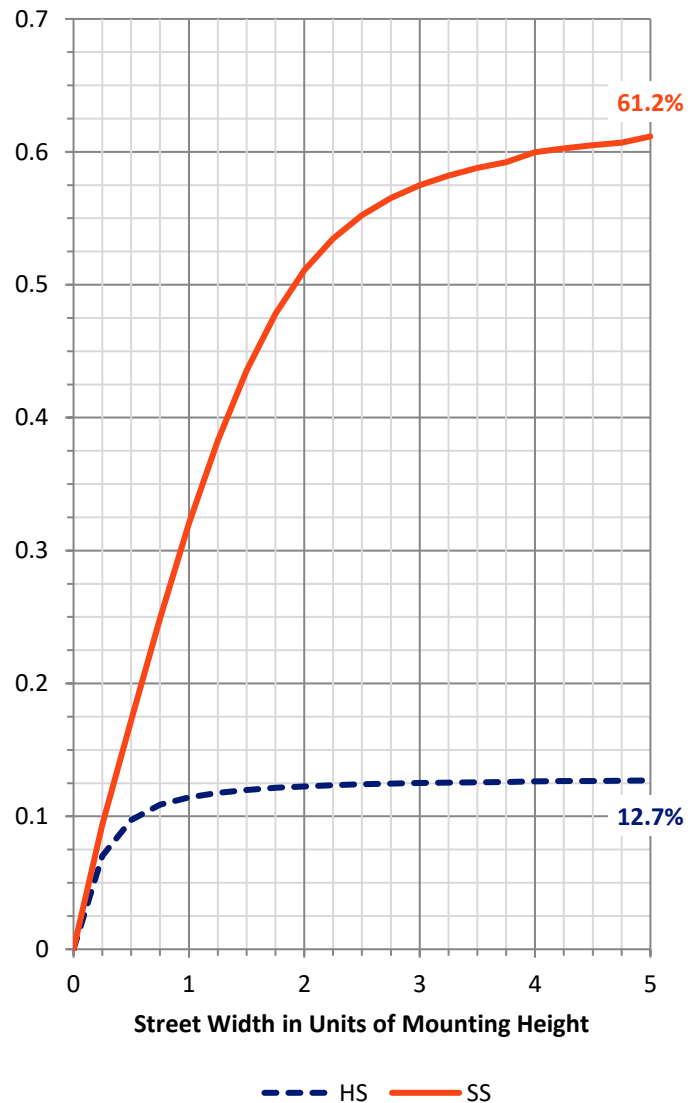
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	896.2	867.6	1763.8
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	4326.4	867.8	5194.1
	% Fixture	62.2	12.5	74.7
Total	Lumens	5222.6	1735.4	6957.9
	% Fixture	75.1	24.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	1.8
10°-20°	245.9	3.5
20°-30°	350.6	5.0
30°-40°	508.7	7.3
40°-50°	727.7	10.5
50°-60°	1117.3	16.1
60°-70°	1293.3	18.6
70°-80°	659.8	9.5
80°-90°	191.4	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	5.0
150°-160°	290.3	4.2
160°-170°	191.2	2.7
170°-180°	66.3	1.0
0°-90°	5222.6	75.1
0°-180°	6957.9	100.0



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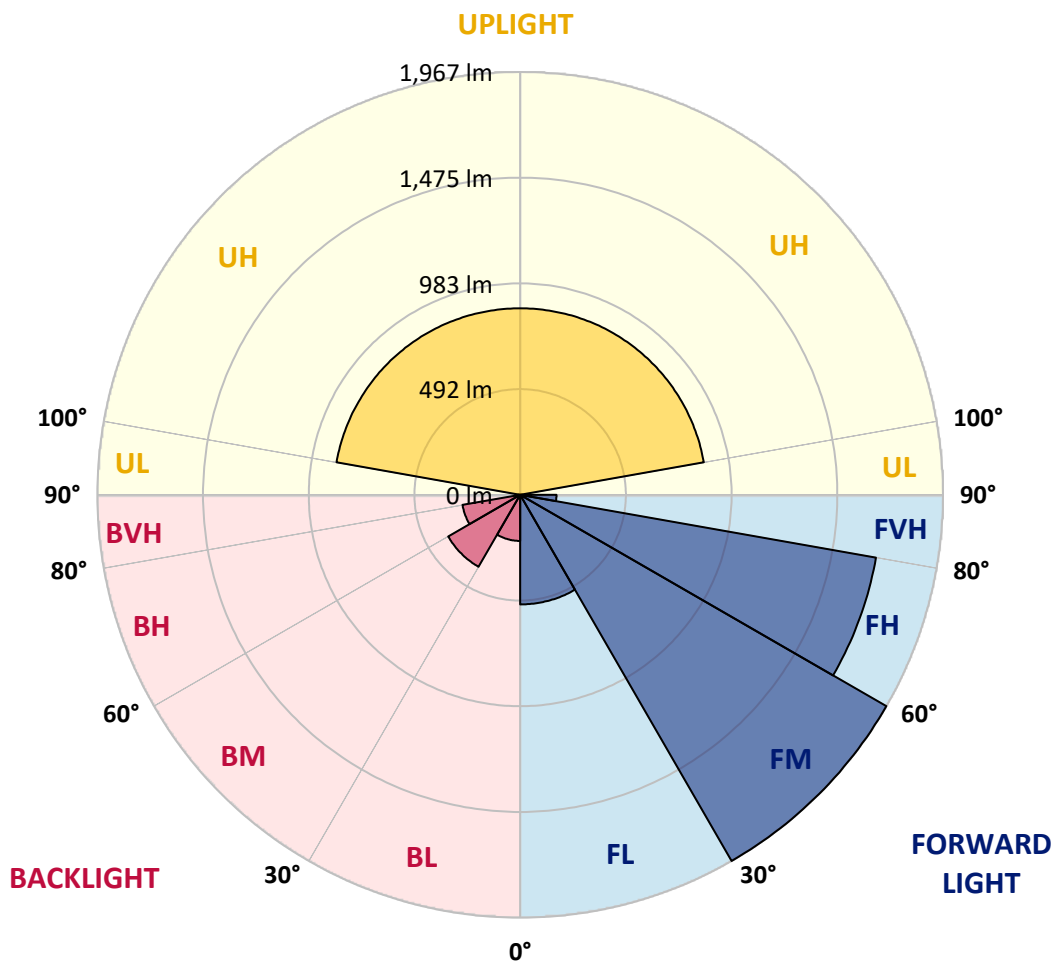
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	510.0	7.3			
FM	(30°-60°)	1967.0	28.3			
FH	(60°-80°)	1680.6	24.2			G1/1800
FVH	(80°-90°)	168.8	2.4			G2/225
BL	(0°-30°)	214.4	3.1	B1/500		
BM	(30°-60°)	386.8	5.6	B1/1000		
BH	(60°-80°)	272.4	3.9	B1/500		G1/500
BVH	(80°-90°)	22.6	0.3			G1/100
UL	(90°-100°)	9.5	0.1		U1/10	
UH	(100°-180°)	867.6	12.5		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°	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1
2.5°	1785.7	1775.2	1762.0	1739.1	1718.9	1689.9	1682.9	1646.9	1624.0	1629.3	1588.0
5°	1676.7	1670.6	1638.1	1587.1	1553.7	1487.8	1450.0	1430.7	1376.2	1369.2	1354.2
7.5°	1523.8	1505.4	1452.6	1389.4	1332.2	1283.9	1223.3	1176.7	1135.4	1109.9	1065.1
10°	1392.9	1373.5	1316.4	1239.1	1170.5	1102.9	1053.7	993.0	934.2	888.5	852.4
12.5°	1329.6	1308.5	1241.7	1152.1	1075.6	991.3	921.9	862.1	829.6	806.7	776.9
15°	1354.2	1323.5	1243.5	1136.3	1041.4	951.7	877.9	813.8	775.1	739.9	704.8
17.5°	1453.5	1415.7	1324.3	1195.2	1063.3	947.3	841.9	768.9	707.4	654.7	607.2
20°	1624.0	1595.9	1463.2	1282.2	1110.8	950.0	811.1	715.3	640.6	573.8	510.6
22.5°	1823.5	1781.3	1651.2	1399.9	1171.4	965.8	791.8	670.5	581.8	492.1	423.6
25°	2032.6	2000.1	1827.9	1558.1	1264.6	998.3	776.9	631.0	512.3	413.0	337.5
27.5°	2201.4	2172.4	2001.9	1710.1	1349.8	1026.4	754.9	593.2	457.0	337.5	254.0
30°	2339.3	2314.7	2136.3	1834.9	1453.5	1036.1	724.1	549.2	395.5	272.4	210.0
32.5°	2494.0	2466.8	2265.5	1921.9	1500.1	1027.3	689.0	507.9	346.2	240.8	180.2
35°	2663.6	2632.0	2409.6	2015.9	1538.8	996.5	659.1	478.1	322.5	218.8	159.9
37.5°	2814.8	2794.6	2539.7	2109.1	1582.7	945.6	630.1	445.5	306.7	203.0	144.1
40°	2932.5	2927.2	2683.8	2186.4	1617.0	908.7	606.4	420.1	286.5	196.8	138.8
42.5°	3027.4	3025.7	2801.6	2255.9	1625.8	876.2	587.9	397.2	268.0	181.9	141.5
45°	3118.8	3117.9	2915.8	2352.5	1631.9	877.9	573.8	383.2	252.2	172.2	133.6
47.5°	3205.8	3219.0	3035.3	2487.0	1696.9	907.8	568.6	370.0	239.9	161.7	126.5
50°	3351.7	3338.5	3224.3	2668.9	1801.5	965.8	559.8	358.5	228.5	152.0	119.5
52.5°	3628.5	3613.6	3511.6	2912.3	1915.8	1025.5	548.4	342.7	215.3	141.5	111.6
55°	3966.9	3987.1	3845.6	3208.5	2071.3	1075.6	536.1	321.6	197.7	129.2	106.3
57.5°	4165.5	4148.8	3987.1	3378.9	2167.1	1101.1	528.2	297.0	170.5	118.6	101.1
59°	4212.0	4183.9	3963.3	3407.9	2192.6	1088.8	523.8	273.3	156.4	113.4	98.4
60°	4207.6	4173.4	3925.6	3389.5	2199.6	1073.9	516.7	259.2	148.5	110.7	97.5
62.5°	4117.1	4063.5	3711.1	3166.3	2101.2	999.2	487.7	225.8	138.0	107.2	92.3
65°	3911.5	3835.9	3350.8	2730.4	1875.3	850.7	421.8	213.5	140.6	105.5	88.8
67.5°	3556.5	3495.8	2887.7	2259.4	1494.8	687.2	364.7	208.3	144.1	107.2	83.5
70°	2893.0	2841.1	2253.2	1691.7	1119.6	546.6	331.3	205.6	141.5	102.8	79.1
72.5°	2040.6	1950.9	1497.5	1184.6	710.1	439.4	287.4	194.2	138.0	99.3	72.1
75°	1241.7	1258.4	951.7	863.0	448.2	301.4	225.8	163.5	122.2	88.8	65.0
77.5°	819.0	818.2	702.2	609.0	227.6	187.2	159.9	125.7	95.8	72.9	56.2
80°	555.4	561.5	509.7	415.7	126.5	112.5	104.6	91.4	70.3	55.4	46.6
82.5°	341.8	342.7	394.6	311.1	84.4	71.2	66.8	61.5	50.1	43.1	36.0
85°	118.6	121.3	138.0	219.7	57.1	46.6	46.6	43.1	37.8	29.0	23.7
87.5°	51.0	50.1	59.8	59.8	28.1	23.7	22.0	22.0	21.1	15.8	13.2
90°	8.5	7.6	7.6	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°	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1
2.5°	1575.7	1566.0	1538.8	1531.7	1540.5	1522.9	1518.5	1514.2	1481.6	1498.3	1479.0
5°	1317.3	1314.7	1259.3	1270.7	1259.3	1240.0	1232.1	1250.5	1218.0	1225.0	1229.4
7.5°	1012.4	1001.8	964.9	940.3	925.4	912.2	895.5	868.2	889.3	884.9	918.3
10°	821.7	798.8	776.0	741.7	722.4	703.9	684.6	674.0	649.4	646.8	635.4
12.5°	753.1	720.6	691.6	661.7	641.5	604.6	573.8	554.5	538.7	514.1	495.6
15°	661.7	634.5	596.7	567.7	536.1	502.7	472.8	448.2	436.8	413.9	403.4
17.5°	569.5	528.2	482.5	453.5	409.5	375.2	350.6	334.8	318.1	304.1	291.8
20°	458.7	405.1	355.9	319.0	284.7	251.3	239.9	220.6	213.5	208.3	212.7
22.5°	348.9	293.5	242.5	214.4	196.0	187.2	177.5	174.0	171.4	170.5	172.2
25°	255.7	209.2	184.5	174.0	167.0	161.7	158.2	155.5	153.8	152.9	153.8
27.5°	197.7	173.1	160.8	153.8	148.5	145.0	143.2	140.6	139.7	138.8	139.7
30°	171.4	158.2	149.4	142.4	136.2	130.1	127.4	126.5	127.4	128.3	127.4
32.5°	149.4	139.7	130.1	123.9	119.5	116.0	116.0	114.2	114.2	116.9	117.8
35°	135.3	125.7	118.6	110.7	105.5	101.9	99.3	97.5	98.4	98.4	101.1
37.5°	123.9	116.9	110.7	103.7	98.4	94.9	93.2	91.4	90.5	89.6	89.6
40°	116.0	111.6	106.3	99.3	94.0	90.5	88.8	87.0	86.1	85.2	85.2
42.5°	116.0	107.2	103.7	97.5	91.4	87.9	85.2	83.5	81.7	81.7	81.7
45°	127.4	109.8	103.7	96.7	90.5	86.1	83.5	80.8	79.1	79.1	78.2
47.5°	123.9	123.0	105.5	96.7	91.4	86.1	82.6	80.0	78.2	77.3	76.5
50°	117.8	128.3	117.8	99.3	91.4	85.2	81.7	79.1	76.5	75.6	75.6
52.5°	114.2	119.5	122.2	102.8	92.3	85.2	80.8	78.2	76.5	74.7	73.8
55°	105.5	112.5	116.9	101.1	92.3	83.5	79.1	76.5	73.8	72.9	72.1
57.5°	96.7	101.9	112.5	101.1	89.6	82.6	77.3	73.8	72.1	71.2	70.3
59°	94.0	94.0	100.2	103.7	87.9	81.7	76.5	72.9	71.2	70.3	68.5
60°	91.4	91.4	94.9	106.3	87.0	80.8	75.6	72.1	69.4	69.4	68.5
62.5°	87.9	85.2	87.0	99.3	84.4	79.1	73.8	70.3	67.7	67.7	66.8
65°	83.5	80.0	80.0	82.6	79.1	75.6	72.1	68.5	65.0	65.0	65.9
67.5°	79.1	75.6	74.7	74.7	72.9	72.1	68.5	65.0	63.3	63.3	63.3
70°	72.9	70.3	69.4	67.7	67.7	66.8	64.2	61.5	59.8	60.6	59.8
72.5°	65.9	64.2	62.4	62.4	61.5	60.6	58.0	56.2	55.4	56.2	56.2
75°	58.9	56.2	56.2	54.5	54.5	53.6	51.0	50.1	49.2	50.1	51.0
77.5°	50.1	48.3	47.5	47.5	47.5	47.5	43.9	43.1	43.1	44.8	44.8
80°	41.3	40.4	39.5	39.5	39.5	38.7	36.9	36.0	36.0	36.9	37.8
82.5°	31.6	29.9	29.9	30.8	31.6	31.6	29.0	27.2	27.2	29.0	30.8
85°	21.1	21.1	21.1	22.0	22.0	22.8	21.1	18.5	19.3	20.2	22.8
87.5°	11.4	12.3	11.4	10.5	12.3	11.4	11.4	10.5	11.4	12.3	13.2
90°	10.5	10.5	10.6	10.8	9.9	10.8	9.8	9.6	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-1000-LED-E1-SLR-7050-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-1000-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1
2.5°	1496.6	1481.6	1473.7	1504.5	1501.9	1475.5	1475.5	1493.9	1494.8	1479.0	1497.5
5°	1234.7	1219.8	1233.8	1221.5	1228.5	1227.7	1238.2	1218.9	1226.8	1219.8	1203.1
7.5°	915.7	945.6	961.4	941.2	966.7	979.9	961.4	979.9	950.9	927.1	950.0
10°	630.1	663.5	657.3	689.9	702.2	709.2	722.4	705.7	685.5	679.3	662.6
12.5°	488.6	481.6	478.9	492.1	500.0	488.6	498.3	487.7	477.2	458.7	457.8
15°	382.3	370.8	362.9	348.0	342.7	345.4	349.8	349.8	328.7	329.5	337.5
17.5°	290.0	287.4	281.2	268.9	261.0	263.6	262.8	258.4	255.7	257.5	267.2
20°	217.9	215.3	218.8	222.3	219.7	220.6	217.1	212.7	210.9	212.7	214.4
22.5°	172.2	175.8	180.2	185.4	186.3	190.7	189.8	190.7	187.2	185.4	181.0
25°	157.3	159.1	156.4	157.3	157.3	161.7	160.8	160.8	157.3	156.4	157.3
27.5°	138.8	138.0	138.0	139.7	139.7	142.4	144.1	142.4	138.8	138.0	138.8
30°	128.3	127.4	126.5	127.4	126.5	127.4	129.2	129.2	127.4	124.8	125.7
32.5°	117.8	117.8	116.9	117.8	116.9	116.9	118.6	116.0	116.0	115.1	115.1
35°	103.7	105.5	107.2	108.1	108.1	108.1	109.8	107.2	106.3	105.5	105.5
37.5°	89.6	91.4	96.7	99.3	100.2	101.9	102.8	101.1	99.3	97.5	95.8
40°	85.2	85.2	87.0	90.5	94.0	94.9	96.7	94.0	93.2	90.5	87.9
42.5°	81.7	82.6	82.6	83.5	84.4	86.1	88.8	86.1	84.4	82.6	80.0
45°	79.1	79.1	79.1	79.1	78.2	78.2	79.1	77.3	76.5	75.6	75.6
47.5°	77.3	76.5	75.6	74.7	73.8	72.9	72.9	71.2	71.2	71.2	71.2
50°	75.6	73.8	72.9	72.1	70.3	70.3	70.3	68.5	67.7	67.7	68.5
52.5°	72.9	72.1	71.2	70.3	69.4	68.5	68.5	66.8	65.9	65.9	65.9
55°	72.1	71.2	69.4	68.5	67.7	68.5	67.7	66.8	65.0	65.0	65.0
57.5°	69.4	70.3	69.4	67.7	67.7	67.7	67.7	65.9	65.0	63.3	64.2
59°	68.5	69.4	68.5	67.7	66.8	67.7	67.7	65.0	64.2	63.3	63.3
60°	67.7	68.5	67.7	66.8	66.8	67.7	66.8	65.9	64.2	61.5	62.4
62.5°	66.8	66.8	65.9	65.9	65.0	65.9	65.0	63.3	61.5	59.8	58.9
65°	65.0	65.0	64.2	64.2	63.3	63.3	63.3	61.5	59.8	58.0	58.0
67.5°	64.2	63.3	62.4	62.4	61.5	61.5	61.5	59.8	57.1	56.2	55.4
70°	60.6	59.8	59.8	58.9	58.0	58.9	59.8	57.1	54.5	52.7	51.8
72.5°	57.1	56.2	56.2	55.4	55.4	56.2	57.1	54.5	51.0	49.2	48.3
75°	51.8	51.0	51.0	51.0	51.0	52.7	52.7	50.1	47.5	44.8	43.1
77.5°	44.8	45.7	45.7	45.7	45.7	47.5	47.5	45.7	43.1	41.3	38.7
80°	38.7	38.7	39.5	39.5	40.4	40.4	39.5	38.7	37.8	36.0	32.5
82.5°	32.5	32.5	32.5	32.5	32.5	31.6	29.9	31.6	31.6	29.9	27.2
85°	25.5	25.5	25.5	26.4	26.4	23.7	21.1	21.1	23.7	22.8	21.1
87.5°	14.9	14.9	15.8	18.5	16.7	15.8	13.2	14.1	13.2	14.9	12.3
90°	12.5	11.6	11.6	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°
1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	110°	80.5
1499.2	1502.7	1510.6	1508.0	1537.0	1528.2	1548.4	1575.7	1601.2	1588.9	1592.4	112.5°	113.5
1232.9	1237.3	1203.9	1224.2	1254.0	1241.7	1237.3	1277.8	1268.1	1313.8	1276.0	115°	153.0
913.1	902.5	886.7	878.8	856.8	856.8	898.1	916.6	913.9	945.6	978.1	117.5°	193.0
641.5	629.2	609.9	604.6	626.6	637.1	655.6	674.0	698.6	734.7	755.8	120°	229.5
471.0	466.6	471.0	484.2	504.4	519.4	547.5	580.0	607.2	636.2	664.4	122.5°	264.0
355.9	364.7	376.1	384.9	400.7	428.8	443.8	479.8	504.4	529.9	562.4	125°	297.5
276.8	282.1	284.7	288.2	301.4	321.6	321.6	358.5	391.1	424.5	451.7	127.5°	331.0
210.9	210.9	202.1	207.4	209.2	207.4	217.9	239.0	260.1	282.1	325.2	130°	364.0
176.6	171.4	168.7	167.8	168.7	172.2	178.4	186.3	189.8	199.5	216.2	132.5°	397.0
156.4	155.5	152.9	152.9	154.7	155.5	161.7	168.7	170.5	173.1	179.3	135°	429.0
138.0	139.7	142.4	141.5	142.4	144.1	148.5	154.7	158.2	159.1	163.5	137.5°	459.5
124.8	126.5	127.4	130.1	130.1	130.9	134.5	140.6	143.2	147.6	152.0	140°	488.0
116.0	116.9	117.8	116.9	117.8	117.8	122.2	128.3	131.8	134.5	137.1	142.5°	517.5
106.3	105.5	105.5	105.5	102.8	101.9	103.7	109.8	110.7	113.4	119.5	145°	545.5
94.9	92.3	90.5	90.5	90.5	91.4	95.8	101.9	102.8	105.5	110.7	147.5°	572.5
84.4	83.5	83.5	84.4	85.2	87.0	90.5	96.7	97.5	100.2	104.6	150°	593.0
79.1	79.1	79.1	80.0	80.8	81.7	86.1	92.3	94.0	96.7	101.9	152.5°	608.5
75.6	76.5	75.6	75.6	76.5	78.2	82.6	89.6	92.3	94.9	100.2	155°	626.0
72.9	72.9	72.9	73.8	73.8	75.6	80.8	87.9	89.6	93.2	101.1	157.5°	643.5
69.4	71.2	70.3	71.2	72.1	73.8	79.1	86.1	88.8	94.0	102.8	160°	657.5
67.7	67.7	67.7	68.5	70.3	71.2	75.6	83.5	87.0	94.0	108.1	162.5°	667.0
66.8	65.0	65.0	65.9	67.7	69.4	73.8	81.7	86.1	93.2	107.2	165°	676.0
65.9	63.3	62.4	63.3	65.0	65.9	71.2	79.1	85.2	90.5	103.7	167.5°	685.0
63.3	61.5	60.6	61.5	63.3	65.0	69.4	77.3	81.7	88.8	99.3	170°	692.0
62.4	59.8	59.8	60.6	62.4	63.3	67.7	75.6	80.0	89.6	101.9	172.5°	694.0
58.9	58.0	58.0	58.9	58.9	60.6	65.9	73.8	77.3	91.4	85.2	175°	696.0
56.2	56.2	56.2	56.2	57.1	58.0	64.2	72.1	73.8	79.1	72.9	177.5°	699.5
54.5	54.5	54.5	54.5	54.5	56.2	61.5	69.4	70.3	69.4	66.8	180°	700.0
51.0	51.0	51.0	51.0	51.8	52.7	58.0	65.0	65.0	63.3	63.3		
48.3	47.5	47.5	47.5	47.5	48.3	53.6	60.6	59.8	58.9	58.9		
43.1	43.1	43.1	43.1	43.1	43.1	48.3	55.4	54.5	53.6	52.7		
37.8	37.8	38.7	37.8	36.9	36.0	41.3	49.2	49.2	48.3	47.5		
32.5	31.6	32.5	31.6	29.9	29.9	34.3	41.3	42.2	41.3	39.5		
26.4	25.5	25.5	25.5	22.0	22.0	26.4	33.4	33.4	32.5	30.8		
20.2	19.3	18.5	17.6	14.9	14.9	18.5	24.6	25.5	22.0	21.1		
10.5	10.5	10.5	7.9	7.0	6.2	9.7	14.9	14.9	12.3	10.5		
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		

227298
 ISW-AF-1000-LED-E1-SLR-7050-ULG

REPORT NUMBER: P227298
 CATALOG NUMBER: ISW-AF-10

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°	1725.1	1725.1
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	1614.3	1622.2
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	1304.1	1334.9
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	986.0	1027.3
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	790.0	818.2
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	693.4	733.8
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	594.9	638.9
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	487.7	541.3
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	372.6	425.3
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	261.9	306.7
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	190.7	210.9
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	169.6	177.5
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	159.1	164.3
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	143.2	148.5
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	125.7	132.7
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	116.9	122.2
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	111.6	112.5
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	107.2	107.2
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	104.6	107.2
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	106.3	117.8
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	119.5	116.0
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	122.2	109.0
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	111.6	104.6
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	100.2	91.4
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	89.6	84.4
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	83.5	81.7
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	76.5	78.2
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	71.2	74.7
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	68.5	71.2
										70°	64.2	65.9
										72.5°	59.8	60.6
										75°	53.6	54.5
										77.5°	47.5	47.5
										80°	38.7	38.7
										82.5°	29.9	29.0
										85°	19.3	18.5
										87.5°	8.8	7.0
										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: P227298

CATALOG NUMBER: ISW-AF-1000-LED-E:

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tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	110°	102.0	108.0	114.0
1661.8	1686.4	1705.7	1702.2	1743.5	1768.1	1771.6	1797.1	1821.7	112.5°	134.0	138.5	143.0
1359.5	1393.8	1427.2	1451.8	1516.8	1570.4	1611.7	1655.6	1707.5	115°	168.0	171.0	174.0
1083.5	1112.5	1167.0	1206.6	1275.1	1337.5	1398.2	1467.6	1526.5	117.5°	202.0	203.5	205.0
848.9	885.8	936.8	1010.6	1072.1	1143.3	1219.8	1285.7	1384.1	120°	237.0	240.0	243.0
762.8	785.6	827.8	863.0	939.4	1015.0	1101.1	1191.6	1282.2	122.5°	271.0	274.0	277.0
674.0	714.5	754.0	805.0	871.8	954.4	1047.5	1145.1	1247.0	125°	305.0	307.5	310.0
587.9	641.5	684.6	739.9	814.6	919.2	1040.5	1161.8	1281.3	127.5°	339.0	339.5	340.0
482.5	532.5	608.1	664.4	761.9	892.9	1048.4	1216.2	1377.9	130°	370.0	371.0	372.0
379.6	433.2	519.4	602.8	710.1	878.8	1080.0	1305.9	1522.1	132.5°	404.0	404.5	405.0
271.5	344.5	429.7	535.2	665.2	870.0	1123.1	1416.6	1707.5	135°	435.0	436.0	437.0
203.0	254.0	357.7	472.8	615.2	854.2	1168.8	1519.4	1834.0	137.5°	464.0	466.0	468.0
181.0	217.1	284.7	406.0	553.6	823.4	1203.1	1617.0	1949.2	140°	491.0	494.0	497.0
158.2	186.3	239.9	342.7	498.3	776.0	1218.0	1668.8	2029.1	142.5°	521.0	523.0	525.0
138.8	165.2	219.7	318.1	470.2	722.4	1215.4	1720.7	2129.3	145°	550.0	550.5	551.0
126.5	149.4	210.9	312.0	448.2	673.2	1218.0	1804.2	2277.8	147.5°	574.0	574.5	575.0
116.9	143.2	203.9	298.8	437.6	645.9	1228.5	1878.0	2405.2	150°	593.0	593.0	593.0
116.9	141.5	186.3	280.3	432.4	648.5	1232.9	1935.1	2500.2	152.5°	610.0	610.0	610.0
123.0	132.7	173.1	269.8	435.9	667.9	1227.7	1993.1	2592.4	155°	630.0	629.0	628.0
116.9	123.9	164.3	268.0	435.9	681.9	1243.5	2065.2	2713.7	157.5°	646.0	645.5	645.0
110.7	115.1	161.7	265.4	427.1	695.1	1308.5	2199.6	2871.9	160°	655.0	655.0	655.0
102.8	108.1	158.2	261.0	417.4	711.8	1423.6	2425.5	3133.8	162.5°	661.0	662.0	663.0
93.2	103.7	152.9	254.0	411.3	741.7	1541.4	2653.9	3445.7	165°	673.0	673.0	673.0
89.6	99.3	140.6	237.3	405.1	774.2	1667.1	2872.8	3726.1	167.5°	688.0	686.5	685.0
87.0	95.8	130.1	225.0	399.8	790.0	1704.9	2956.2	3834.2	170°	693.0	692.0	691.0
85.2	94.0	123.9	214.4	393.7	790.9	1732.1	2987.9	3850.0	172.5°	690.0	690.0	690.0
82.6	90.5	111.6	192.5	374.4	790.0	1734.7	3008.1	3804.3	175°	691.0	690.5	690.0
78.2	87.0	112.5	181.0	339.2	753.1	1625.8	2910.6	3622.4	177.5°	697.0	696.0	695.0
74.7	84.4	118.6	183.7	302.3	658.2	1421.9	2607.4	3233.1	180°	700.0	700.0	700.0
69.4	82.6	123.9	189.8	291.8	546.6	1075.6	2129.3	2707.6				
64.2	81.7	128.3	194.2	280.3	449.9	745.2	1509.8	2026.5				
58.0	74.7	116.9	165.2	232.0	326.9	479.8	987.8	1397.3				
50.1	59.8	85.2	116.0	170.5	228.5	283.8	596.7	913.9				
41.3	44.8	60.6	74.7	113.4	135.3	157.3	336.6	638.9				
30.8	31.6	41.3	47.5	64.2	74.7	94.0	206.5	517.6				
17.6	20.2	28.1	31.6	38.7	47.5	61.5	131.8	406.0				
7.0	8.8	16.7	18.5	21.1	26.4	34.3	76.5	126.5				
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				



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CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-705C

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CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	0°	1725.1	1725.1	1725.1	1725.1
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	1846.3	1864.8	1880.6	1892.9
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	1762.9	1805.9	1857.8	1901.7
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	1614.3	1668.8	1753.2	1805.0
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	1473.7	1553.7	1646.0	1720.7
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	1377.9	1477.2	1565.1	1648.6
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	1351.6	1452.6	1531.7	1608.2
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	1404.3	1505.4	1573.0	1619.6
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	1528.2	1636.3	1679.4	1675.9
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	1697.8	1811.2	1811.2	1776.0
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	1921.9	2003.6	1958.8	1892.0
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	2081.0	2157.4	2079.2	1969.4
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	2212.8	2269.0	2169.7	2037.0
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	2328.8	2370.1	2239.2	2108.2
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	2467.6	2482.6	2311.2	2171.5
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	2621.4	2633.7	2414.9	2240.9
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	2802.5	2758.5	2491.4	2305.1
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	2914.1	2842.0	2546.7	2338.5
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	3001.9	2903.5	2572.2	2357.8
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	3110.0	2994.0	2617.0	2392.9
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	3252.4	3119.7	2730.4	2492.2
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	3544.2	3379.8	2934.3	2665.4
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	3879.9	3724.3	3260.3	2951.0
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	4148.8	4044.2	3551.2	3209.3
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	4248.1	4203.3	3756.8	3428.2
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	4285.0	4323.6	3865.8	3561.7
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	4310.5	4478.3	4219.9	3960.7
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	4257.7	4503.8	4363.2	4204.1
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	4028.4	4322.8	4295.5	4155.8
								70°	3559.1	3886.9	3981.8	3783.2
								72.5°	2677.7	3084.6	3602.2	3291.1
								75°	1744.4	2120.5	3075.8	2819.2
								77.5°	1092.3	1323.5	2194.3	1974.6
								80°	726.8	850.7	1392.9	1268.1
								82.5°	546.6	602.8	957.9	900.8
								85°	288.2	367.3	745.2	944.7
								87.5°	108.1	120.4	560.7	844.5
								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: P227298

CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-7050-ULG

J-ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	110°	117.0	116.0	117.5	119.0	120.0
1903.5	1919.3	1928.9	1921.9	1933.3	1936.0	1923.7	112.5°	147.0	147.0	148.0	149.0	149.5
1938.6	1982.6	2014.2	2036.2	2044.9	2052.9	2049.3	115°	178.0	177.0	178.0	179.0	180.5
1873.6	1941.2	2000.1	2040.6	2054.6	2065.2	2055.5	117.5°	209.0	208.0	209.0	210.0	212.5
1801.5	1871.8	1927.2	1967.6	1966.7	1977.3	1958.8	120°	243.0	243.0	244.0	245.0	247.5
1733.9	1802.4	1851.6	1849.9	1837.5	1806.8	1801.5	122.5°	277.0	276.0	277.0	278.0	280.5
1680.2	1716.3	1728.6	1725.9	1690.8	1673.2	1670.6	125°	310.0	310.0	310.0	310.0	312.5
1653.9	1652.1	1624.0	1593.2	1559.9	1558.1	1535.2	127.5°	347.0	345.0	345.5	346.0	346.0
1658.3	1601.2	1549.3	1496.6	1460.5	1452.6	1455.3	130°	380.0	379.0	380.0	381.0	381.0
1713.6	1612.6	1515.0	1461.4	1419.2	1406.9	1412.2	132.5°	415.0	414.0	414.0	414.0	415.0
1783.1	1647.7	1526.5	1444.7	1410.5	1395.5	1398.2	135°	451.0	450.0	448.5	447.0	447.5
1829.6	1688.2	1564.2	1463.2	1416.6	1402.5	1411.3	137.5°	482.0	481.0	478.5	476.0	475.5
1889.4	1743.5	1615.2	1510.6	1441.2	1422.8	1428.9	140°	511.0	509.0	506.5	504.0	503.0
1948.3	1803.3	1687.3	1568.6	1484.3	1450.0	1459.7	142.5°	536.0	534.0	533.5	533.0	533.0
2011.6	1872.7	1755.8	1647.7	1548.4	1494.8	1507.1	145°	560.0	558.0	559.5	561.0	561.5
2085.4	1953.6	1853.4	1754.1	1652.1	1607.3	1612.6	147.5°	585.0	583.0	584.5	586.0	585.5
2156.6	2032.6	1968.5	1894.7	1834.9	1766.4	1766.4	150°	610.0	606.0	604.5	603.0	601.5
2198.7	2135.5	2117.9	2096.8	2061.6	2012.4	2001.9	152.5°	628.0	623.0	620.5	618.0	616.0
2250.6	2257.6	2298.0	2340.2	2350.8	2302.4	2287.5	155°	641.0	638.0	637.0	636.0	633.5
2348.1	2421.9	2554.6	2669.8	2692.6	2732.2	2686.5	157.5°	655.0	650.0	650.0	650.0	649.0
2485.2	2621.4	2845.5	3033.6	3087.2	3090.7	3094.2	160°	666.0	660.0	660.5	661.0	662.5
2641.6	2836.7	3132.9	3357.0	3452.8	3478.3	3459.8	162.5°	674.0	668.0	669.0	670.0	670.5
2909.7	3086.3	3410.6	3652.3	3775.3	3835.0	3819.2	165°	682.0	678.0	679.0	680.0	678.5
3175.1	3394.8	3680.4	3918.5	4049.5	4116.3	4130.3	167.5°	694.0	688.0	688.0	688.0	686.0
3356.1	3561.7	3825.4	4045.1	4174.3	4254.2	4261.3	170°	701.0	696.0	695.0	694.0	691.5
3466.8	3654.9	3912.4	4105.7	4234.9	4302.6	4327.2	172.5°	701.0	696.0	695.0	694.0	693.0
3802.5	3836.8	4012.6	4140.0	4230.5	4261.3	4279.7	175°	699.0	694.0	695.0	696.0	695.5
3959.8	3816.6	3796.4	3875.5	3883.4	3863.2	3837.7	177.5°	702.0	698.0	699.5	701.0	700.0
3741.0	3406.2	3282.3	3271.7	3239.2	3226.0	3145.2	180°	700.0	700.0	700.0	700.0	700.0
3248.9	2766.4	2547.6	2429.0	2501.0	2498.4	2415.8						
2737.4	2246.2	1962.3	1791.9	1770.8	1767.2	1695.2						
2223.3	1762.9	1514.2	1431.5	1332.2	1302.4	1314.7						
1602.9	1258.4	1205.7	1269.0	1276.9	1254.0	1238.2						
1009.7	946.5	997.4	1112.5	1180.2	1150.3	1161.8						
841.9	745.2	748.7	870.0	915.7	922.7	899.0						
934.2	746.1	611.6	596.7	580.9	365.6	508.8						
841.9	577.4	340.1	280.3	172.2	99.3	102.8						
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°	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	1921.0	1904.3	1885.9	1861.3	1865.7	1835.8
182.0	180.5	179.0	176.5	174.0	171.0	5°	2022.1	1993.1	1953.6	1903.5	1856.9	1797.1
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	2011.6	1965.0	1899.1	1823.5	1762.0	1675.9
250.0	248.0	246.0	244.5	243.0	240.0	10°	1921.0	1860.4	1806.8	1728.6	1648.6	1573.0
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	1794.5	1760.2	1713.6	1654.8	1577.4	1500.1
315.0	314.0	313.0	311.5	310.0	307.5	15°	1656.5	1659.2	1631.0	1615.2	1576.5	1515.0
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	1543.2	1569.5	1584.5	1609.1	1613.5	1583.6
381.0	379.0	377.0	374.5	372.0	371.0	20°	1467.6	1504.5	1551.1	1618.7	1689.9	1720.7
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	1425.4	1471.1	1545.8	1668.8	1798.9	1877.1
448.0	445.5	443.0	440.0	437.0	436.0	25°	1417.5	1478.1	1582.7	1733.0	1901.7	2011.6
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	1430.7	1509.8	1633.7	1805.0	1971.1	2130.2
502.0	501.0	500.0	498.5	497.0	494.0	30°	1472.9	1565.1	1700.5	1885.0	2057.2	2215.4
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	1513.3	1627.5	1776.9	1957.1	2130.2	2287.5
562.0	559.0	556.0	553.5	551.0	550.5	35°	1578.3	1693.4	1846.3	2012.4	2180.3	2358.7
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	1677.6	1778.7	1900.8	2055.5	2230.4	2414.9
600.0	598.5	597.0	595.0	593.0	593.0	40°	1819.1	1885.9	1965.0	2087.1	2255.0	2452.7
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	2030.9	2044.9	2072.2	2135.5	2276.9	2496.6
631.0	628.5	626.0	627.0	628.0	629.0	45°	2304.2	2262.0	2238.3	2229.5	2326.2	2524.8
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	2621.4	2538.8	2443.9	2398.2	2421.1	2569.6
664.0	661.0	658.0	656.5	655.0	655.0	50°	3034.5	2900.0	2713.7	2581.9	2570.5	2701.4
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	3413.2	3237.5	3002.8	2847.3	2784.0	2947.5
677.0	674.5	672.0	672.5	673.0	673.0	55°	3770.9	3635.6	3370.2	3176.8	3154.9	3273.5
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	4084.6	3967.7	3750.7	3498.5	3507.3	3622.4
689.0	687.5	686.0	688.5	691.0	692.0	59°	4247.2	4149.6	3948.4	3691.8	3711.1	3869.3
692.0	690.5	689.0	689.5	690.0	690.0	60°	4305.2	4223.5	4031.9	3815.7	3840.3	4004.6
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	4300.8	4248.1	4109.2	4007.3	4132.9	4253.3
699.0	696.5	694.0	694.5	695.0	696.0	65°	3890.4	3810.4	3794.6	3973.0	4215.6	4331.6
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	3094.2	3132.0	3282.3	3589.0	3995.9	4164.6
						70°	2298.0	2364.8	2565.2	2950.1	3509.0	3800.8
						72.5°	1689.9	1756.7	1941.2	2363.1	2886.8	3145.2
						75°	1326.1	1346.3	1479.0	1810.3	2275.2	2487.0
						77.5°	1225.0	1164.4	1109.9	1287.4	1534.4	1716.3
						80°	1140.7	1025.5	897.2	950.9	1010.6	1203.9
						82.5°	885.8	809.4	709.2	777.7	805.9	812.0
						85°	518.5	461.4	584.4	827.8	819.0	717.1
						87.5°	182.8	237.3	267.2	458.7	554.5	479.8
						90°	8.0	10.6	15.9	16.3	20.2	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°
1725.1	1725.1	1725.1	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
1812.1	1787.5	1785.7	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
1749.7	1694.3	1676.7	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
1601.2	1537.0	1523.8	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
1476.4	1405.2	1392.9	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
1412.2	1344.5	1329.6	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
1436.8	1362.1	1354.2	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
1529.1	1450.0	1453.5	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
1687.3	1636.3	1624.0	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
1894.7	1839.3	1823.5	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
2071.3	2043.2	2032.6	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
2198.7	2211.9	2201.4	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
2300.7	2344.6	2339.3	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
2405.2	2490.5	2494.0	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
2482.6	2632.9	2663.6	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
2581.9	2783.1	2814.8	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
2657.5	2893.9	2932.5	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
2731.3	2985.2	3027.4	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
2791.9	3075.8	3118.8	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
2860.5	3163.6	3205.8	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
2983.5	3301.6	3351.7	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
3248.0	3557.3	3628.5	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
3630.3	3910.6	3966.9	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
3974.8	4150.5	4165.5	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
4116.3	4216.4	4212.0	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
4219.9	4232.3	4207.6	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
4276.2	4159.3	4117.1	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
4129.4	3966.9	3911.5	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
3705.9	3619.7	3556.5	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
3152.2	2934.3	2893.0								
2389.4	2102.1	2040.6								
1669.7	1325.2	1241.7								
1097.6	850.7	819.0								
711.8	565.1	555.4								
496.5	370.8	341.8								
304.9	123.9	118.6								
94.9	57.1	51.0								
7.6	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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