

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: P227299

Luminaire Tested: **ISW-AF-1000-LED-E1-SLR-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227299
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-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: 6358.5 lumens
Efficiency: N/A
Efficacy: 89.2 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

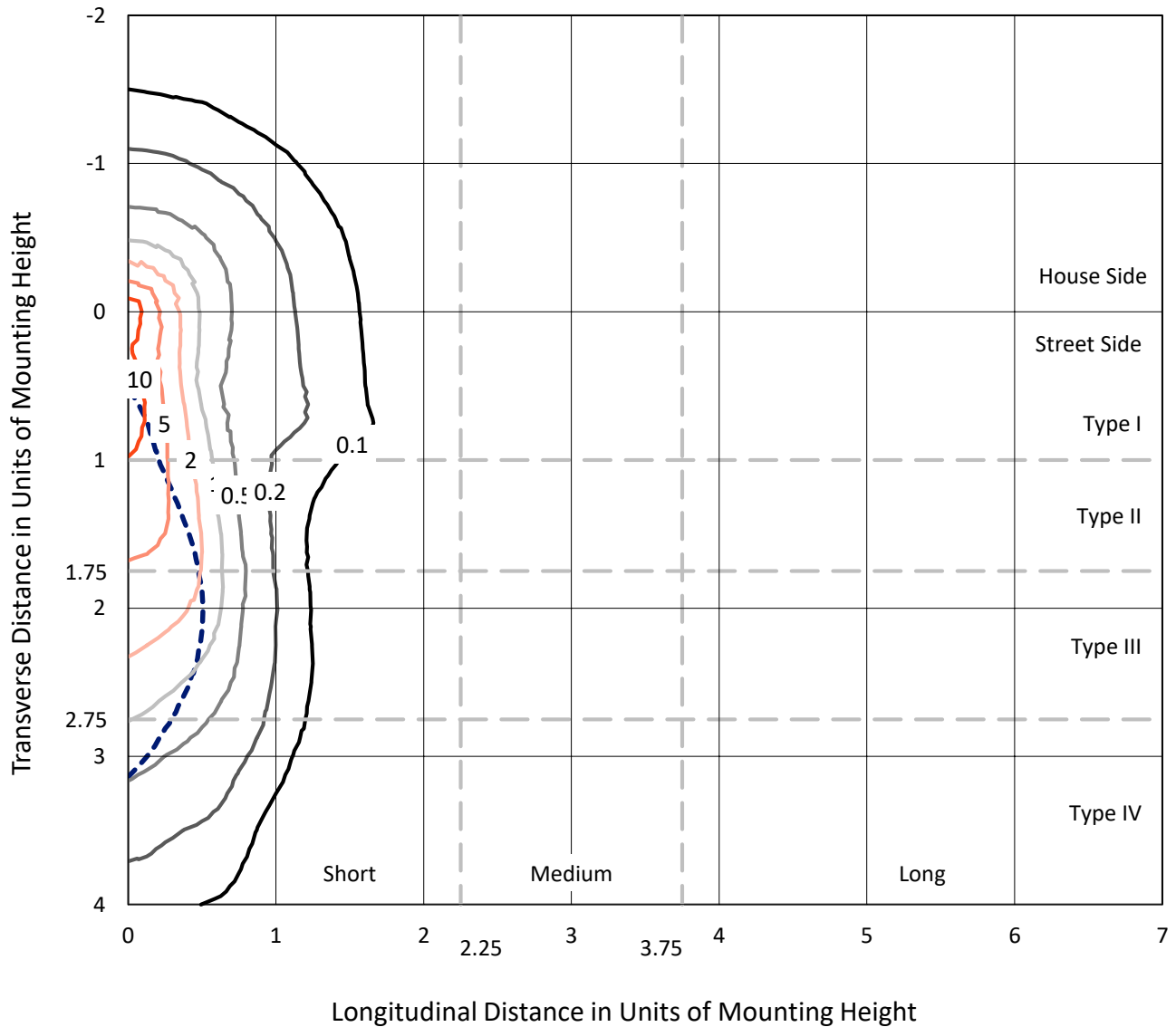


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Iso-Footcandle Lines of Horizontal Illumination

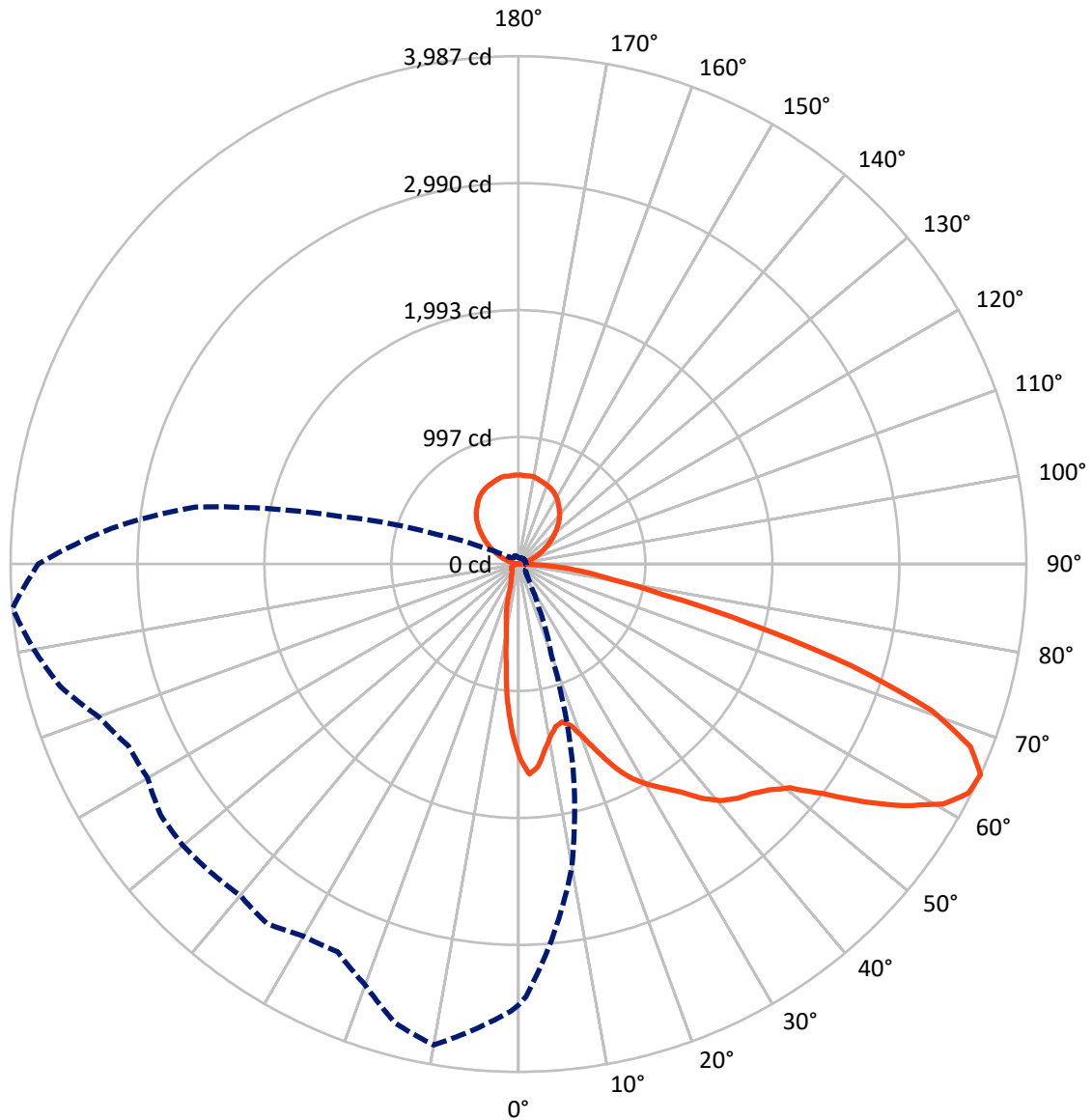
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.3 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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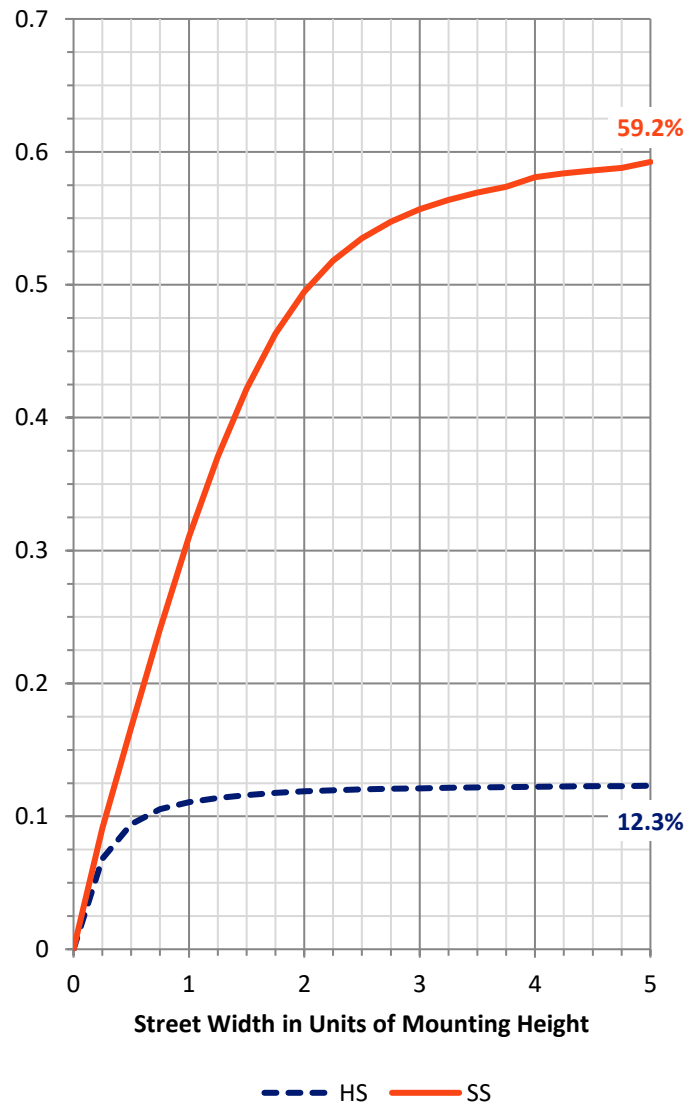
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	793.4	867.6	1661.0
	% Fixture	12.5	13.6	26.1
Street Side	Lumens	3829.8	867.7	4697.5
	% Fixture	60.2	13.6	73.9
Total	Lumens	4623.1	1735.3	6358.5
	% Fixture	72.7	27.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	1.8
10°-20°	217.7	3.4
20°-30°	310.4	4.9
30°-40°	450.3	7.1
40°-50°	644.2	10.1
50°-60°	989.1	15.6
60°-70°	1144.8	18.0
70°-80°	584.0	9.2
80°-90°	169.6	2.7
90°-100°	9.5	0.1
100°-110°	57.4	0.9
110°-120°	166.1	2.6
120°-130°	273.2	4.3
130°-140°	336.8	5.3
140°-150°	344.6	5.4
150°-160°	290.3	4.6
160°-170°	191.2	3.0
170°-180°	66.3	1.0
0°-90°	4623.1	72.7
0°-180°	6358.5	100.0



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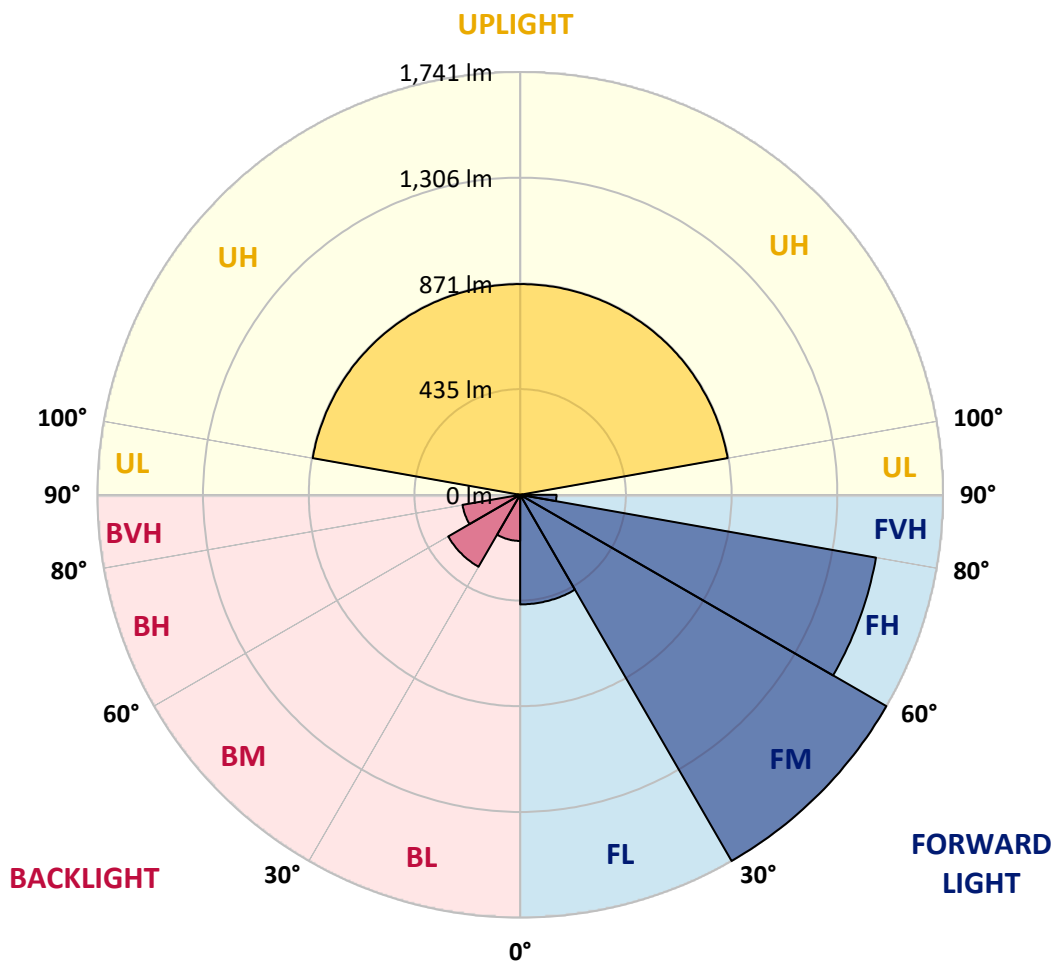
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	451.4	7.1			
FM	(30°-60°)	1741.2	27.4			
FH	(60°-80°)	1487.7	23.4			G1/1800
FVH	(80°-90°)	149.5	2.4			G2/225
BL	(0°-30°)	189.8	3.0	B1/500		
BM	(30°-60°)	342.3	5.4	B1/1000		
BH	(60°-80°)	241.1	3.8	B1/500		G1/500
BVH	(80°-90°)	20.1	0.3			G1/100
UL	(90°-100°)	9.5	0.1		U1/10	
UH	(100°-180°)	867.6	13.6		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°	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0
2.5°	1580.7	1571.4	1559.7	1539.5	1521.6	1495.9	1489.7	1457.8	1437.6	1442.2	1405.7
5°	1484.2	1478.8	1450.0	1404.9	1375.3	1317.0	1283.5	1266.4	1218.2	1212.0	1198.8
7.5°	1348.9	1332.6	1285.9	1229.9	1179.3	1136.5	1082.8	1041.6	1005.1	982.5	942.8
10°	1233.0	1215.9	1165.3	1096.8	1036.2	976.3	932.7	879.0	826.9	786.5	754.6
12.5°	1177.0	1158.3	1099.2	1019.8	952.2	877.5	816.0	763.1	734.3	714.1	687.7
15°	1198.8	1171.5	1100.7	1005.8	921.8	842.5	777.1	720.3	686.1	655.0	623.9
17.5°	1286.7	1253.2	1172.3	1058.0	941.3	838.6	745.2	680.7	626.2	579.5	537.5
20°	1437.6	1412.7	1295.2	1135.0	983.3	840.9	718.0	633.2	567.1	508.0	452.0
22.5°	1614.2	1576.8	1461.7	1239.2	1036.9	854.9	700.9	593.5	515.0	435.6	375.0
25°	1799.3	1770.5	1618.0	1379.2	1119.4	883.7	687.7	558.5	453.5	365.6	298.7
27.5°	1948.7	1923.0	1772.1	1513.8	1194.9	908.6	668.2	525.1	404.5	298.7	224.8
30°	2070.8	2049.0	1891.1	1624.3	1286.7	917.1	641.0	486.2	350.1	241.2	185.9
32.5°	2207.7	2183.6	2005.4	1701.3	1327.9	909.4	609.9	449.6	306.5	213.1	159.5
35°	2357.8	2329.8	2133.0	1784.5	1362.1	882.1	583.4	423.2	285.5	193.7	141.6
37.5°	2491.6	2473.7	2248.1	1867.0	1401.0	837.0	557.8	394.4	271.5	179.7	127.6
40°	2595.9	2591.2	2375.7	1935.4	1431.3	804.4	536.8	371.8	253.6	174.3	122.9
42.5°	2679.9	2678.3	2480.0	1996.9	1439.1	775.6	520.4	351.6	237.3	161.0	125.2
45°	2760.8	2760.0	2581.1	2082.5	1444.6	777.1	508.0	339.2	223.3	152.5	118.2
47.5°	2837.8	2849.5	2686.9	2201.5	1502.1	803.6	503.3	327.5	212.4	143.1	112.0
50°	2966.9	2955.3	2854.1	2362.5	1594.7	854.9	495.5	317.4	202.3	134.6	105.8
52.5°	3212.0	3198.7	3108.5	2578.0	1695.8	907.8	485.4	303.4	190.6	125.2	98.8
55°	3511.5	3529.4	3404.1	2840.1	1833.5	952.2	474.5	284.7	175.0	114.4	94.1
57.5°	3687.3	3672.5	3529.4	2991.0	1918.3	974.7	467.5	262.9	150.9	105.0	89.5
59°	3728.5	3703.6	3508.4	3016.7	1940.9	963.8	463.6	241.9	138.5	100.3	87.1
60°	3724.6	3694.3	3474.9	3000.4	1947.1	950.6	457.4	229.5	131.5	98.0	86.3
62.5°	3644.5	3597.0	3285.1	2802.8	1860.0	884.5	431.7	199.9	122.1	94.9	81.7
65°	3462.5	3395.6	2966.2	2417.0	1660.0	753.0	373.4	189.0	124.5	93.3	78.6
67.5°	3148.2	3094.5	2556.2	2000.0	1323.2	608.3	322.8	184.4	127.6	94.9	73.9
70°	2560.9	2515.0	1994.5	1497.5	991.1	483.9	293.3	182.0	125.2	91.0	70.0
72.5°	1806.3	1726.9	1325.6	1048.6	628.5	389.0	254.4	171.9	122.1	87.9	63.8
75°	1099.2	1114.0	842.5	763.9	396.7	266.8	199.9	144.7	108.1	78.6	57.6
77.5°	725.0	724.2	621.5	539.1	201.5	165.7	141.6	111.2	84.8	64.6	49.8
80°	491.6	497.1	451.2	367.9	112.0	99.6	92.6	80.9	62.2	49.0	41.2
82.5°	302.6	303.4	349.3	275.4	74.7	63.0	59.1	54.5	44.3	38.1	31.9
85°	105.0	107.4	122.1	194.5	50.6	41.2	41.2	38.1	33.4	25.7	21.0
87.5°	45.1	44.3	52.9	52.9	24.9	21.0	19.4	19.4	18.7	14.0	11.7
90°	8.1	7.3	7.3	9.1	10.9	12.9	12.7	13.4	13.4	12.2	10.1
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°	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0
2.5°	1394.8	1386.2	1362.1	1355.9	1363.7	1348.1	1344.2	1340.3	1311.5	1326.3	1309.2
5°	1166.1	1163.7	1114.7	1124.9	1114.7	1097.6	1090.6	1107.0	1078.2	1084.4	1088.3
7.5°	896.1	886.8	854.1	832.4	819.1	807.5	792.7	768.6	787.2	783.4	812.9
10°	727.3	707.1	686.9	656.6	639.4	623.1	606.0	596.7	574.9	572.5	562.4
12.5°	666.7	637.9	612.2	585.8	567.9	535.2	508.0	490.9	476.9	455.1	438.7
15°	585.8	561.6	528.2	502.5	474.5	445.0	418.5	396.7	386.6	366.4	357.1
17.5°	504.1	467.5	427.1	401.4	362.5	332.2	310.4	296.4	281.6	269.2	258.3
20°	406.1	358.6	315.1	282.4	252.0	222.5	212.4	195.3	189.0	184.4	188.3
22.5°	308.8	259.8	214.7	189.8	173.5	165.7	157.1	154.0	151.7	150.9	152.5
25°	226.4	185.1	163.4	154.0	147.8	143.1	140.0	137.7	136.1	135.4	136.1
27.5°	175.0	153.2	142.4	136.1	131.5	128.4	126.8	124.5	123.7	122.9	123.7
30°	151.7	140.0	132.2	126.0	120.6	115.1	112.8	112.0	112.8	113.6	112.8
32.5°	132.2	123.7	115.1	109.7	105.8	102.7	102.7	101.1	101.1	103.5	104.2
35°	119.8	111.2	105.0	98.0	93.3	90.2	87.9	86.3	87.1	87.1	89.5
37.5°	109.7	103.5	98.0	91.8	87.1	84.0	82.5	80.9	80.1	79.3	79.3
40°	102.7	98.8	94.1	87.9	83.2	80.1	78.6	77.0	76.2	75.5	75.5
42.5°	102.7	94.9	91.8	86.3	80.9	77.8	75.5	73.9	72.3	72.3	72.3
45°	112.8	97.2	91.8	85.6	80.1	76.2	73.9	71.6	70.0	70.0	69.2
47.5°	109.7	108.9	93.3	85.6	80.9	76.2	73.1	70.8	69.2	68.5	67.7
50°	104.2	113.6	104.2	87.9	80.9	75.5	72.3	70.0	67.7	66.9	66.9
52.5°	101.1	105.8	108.1	91.0	81.7	75.5	71.6	69.2	67.7	66.1	65.3
55°	93.3	99.6	103.5	89.5	81.7	73.9	70.0	67.7	65.3	64.6	63.8
57.5°	85.6	90.2	99.6	89.5	79.3	73.1	68.5	65.3	63.8	63.0	62.2
59°	83.2	83.2	88.7	91.8	77.8	72.3	67.7	64.6	63.0	62.2	60.7
60°	80.9	80.9	84.0	94.1	77.0	71.6	66.9	63.8	61.5	61.5	60.7
62.5°	77.8	75.5	77.0	87.9	74.7	70.0	65.3	62.2	59.9	59.9	59.1
65°	73.9	70.8	70.8	73.1	70.0	66.9	63.8	60.7	57.6	57.6	58.3
67.5°	70.0	66.9	66.1	66.1	64.6	63.8	60.7	57.6	56.0	56.0	56.0
70°	64.6	62.2	61.5	59.9	59.9	59.1	56.8	54.5	52.9	53.7	52.9
72.5°	58.3	56.8	55.2	55.2	54.5	53.7	51.3	49.8	49.0	49.8	49.8
75°	52.1	49.8	49.8	48.2	48.2	47.5	45.1	44.3	43.6	44.3	45.1
77.5°	44.3	42.8	42.0	42.0	42.0	42.0	38.9	38.1	38.1	39.7	39.7
80°	36.6	35.8	35.0	35.0	35.0	34.2	32.7	31.9	31.9	32.7	33.4
82.5°	28.0	26.4	26.4	27.2	28.0	28.0	25.7	24.1	24.1	25.7	27.2
85°	18.7	18.7	18.7	19.4	19.4	20.2	18.7	16.3	17.1	17.9	20.2
87.5°	10.1	10.9	10.1	9.3	10.9	10.1	10.1	9.3	10.1	10.9	11.7
90°	10.1	10.1	10.3	10.6	9.8	10.6	9.6	9.3	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-1000-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-1000-LED-E1-SLR-7030-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0
2.5°	1324.8	1311.5	1304.5	1331.8	1329.4	1306.1	1306.1	1322.4	1323.2	1309.2	1325.6
5°	1093.0	1079.7	1092.2	1081.3	1087.5	1086.7	1096.1	1079.0	1086.0	1079.7	1065.0
7.5°	810.6	837.0	851.0	833.1	855.7	867.4	851.0	867.4	841.7	820.7	840.9
10°	557.8	587.3	581.9	610.7	621.5	627.8	639.4	624.7	606.8	601.3	586.5
12.5°	432.5	426.3	424.0	435.6	442.6	432.5	441.1	431.7	422.4	406.1	405.3
15°	338.4	328.3	321.3	308.1	303.4	305.7	309.6	309.6	290.9	291.7	298.7
17.5°	256.7	254.4	248.9	238.0	231.0	233.4	232.6	228.7	226.4	227.9	236.5
20°	192.9	190.6	193.7	196.8	194.5	195.3	192.1	188.3	186.7	188.3	189.8
22.5°	152.5	155.6	159.5	164.1	164.9	168.8	168.0	168.8	165.7	164.1	160.2
25°	139.2	140.8	138.5	139.2	139.2	143.1	142.4	142.4	139.2	138.5	139.2
27.5°	122.9	122.1	122.1	123.7	123.7	126.0	127.6	126.0	122.9	122.1	122.9
30°	113.6	112.8	112.0	112.8	112.0	112.8	114.4	114.4	112.8	110.5	111.2
32.5°	104.2	104.2	103.5	104.2	103.5	103.5	105.0	102.7	102.7	101.9	101.9
35°	91.8	93.3	94.9	95.7	95.7	95.7	97.2	94.9	94.1	93.3	93.3
37.5°	79.3	80.9	85.6	87.9	88.7	90.2	91.0	89.5	87.9	86.3	84.8
40°	75.5	75.5	77.0	80.1	83.2	84.0	85.6	83.2	82.5	80.1	77.8
42.5°	72.3	73.1	73.1	73.9	74.7	76.2	78.6	76.2	74.7	73.1	70.8
45°	70.0	70.0	70.0	70.0	69.2	69.2	70.0	68.5	67.7	66.9	66.9
47.5°	68.5	67.7	66.9	66.1	65.3	64.6	64.6	63.0	63.0	63.0	63.0
50°	66.9	65.3	64.6	63.8	62.2	62.2	62.2	60.7	59.9	59.9	60.7
52.5°	64.6	63.8	63.0	62.2	61.5	60.7	60.7	59.1	58.3	58.3	58.3
55°	63.8	63.0	61.5	60.7	59.9	60.7	59.9	59.1	57.6	57.6	57.6
57.5°	61.5	62.2	61.5	59.9	59.9	59.9	59.9	58.3	57.6	56.0	56.8
59°	60.7	61.5	60.7	59.9	59.1	59.9	59.9	57.6	56.8	56.0	56.0
60°	59.9	60.7	59.9	59.1	59.1	59.9	59.1	58.3	56.8	54.5	55.2
62.5°	59.1	59.1	58.3	58.3	57.6	58.3	57.6	56.0	54.5	52.9	52.1
65°	57.6	57.6	56.8	56.8	56.0	56.0	56.0	54.5	52.9	51.3	51.3
67.5°	56.8	56.0	55.2	55.2	54.5	54.5	54.5	52.9	50.6	49.8	49.0
70°	53.7	52.9	52.9	52.1	51.3	52.1	52.9	50.6	48.2	46.7	45.9
72.5°	50.6	49.8	49.8	49.0	49.0	49.8	50.6	48.2	45.1	43.6	42.8
75°	45.9	45.1	45.1	45.1	45.1	46.7	46.7	44.3	42.0	39.7	38.1
77.5°	39.7	40.5	40.5	40.5	40.5	42.0	42.0	40.5	38.1	36.6	34.2
80°	34.2	34.2	35.0	35.0	35.8	35.8	35.0	34.2	33.4	31.9	28.8
82.5°	28.8	28.8	28.8	28.8	28.8	28.0	26.4	28.0	28.0	26.4	24.1
85°	22.6	22.6	22.6	23.3	23.3	21.0	18.7	18.7	21.0	20.2	18.7
87.5°	13.2	13.2	14.0	16.3	14.8	14.0	11.7	12.4	11.7	13.2	10.9
90°	12.1	11.3	11.3	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°
1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	110°	80.5
1327.1	1330.2	1337.2	1334.9	1360.6	1352.8	1370.7	1394.8	1417.3	1406.5	1409.6	112.5°	113.5
1091.4	1095.3	1065.7	1083.6	1110.1	1099.2	1095.3	1131.1	1122.5	1163.0	1129.5	115°	153.0
808.2	798.9	784.9	777.9	758.5	758.5	795.0	811.4	809.0	837.0	865.8	117.5°	193.0
567.9	557.0	539.9	535.2	554.6	564.0	580.3	596.7	618.4	650.3	669.0	120°	229.5
417.0	413.1	417.0	428.6	446.5	459.7	484.6	513.4	537.5	563.2	588.1	122.5°	264.0
315.1	322.8	332.9	340.7	354.7	379.6	392.8	424.7	446.5	469.1	497.9	125°	297.5
245.0	249.7	252.0	255.2	266.8	284.7	284.7	317.4	346.2	375.7	399.8	127.5°	331.0
186.7	186.7	178.9	183.6	185.1	183.6	192.9	211.6	230.3	249.7	287.8	130°	364.0
156.4	151.7	149.4	148.6	149.4	152.5	157.9	164.9	168.0	176.6	191.4	132.5°	397.0
138.5	137.7	135.4	135.4	136.9	137.7	143.1	149.4	150.9	153.2	158.7	135°	429.0
122.1	123.7	126.0	125.2	126.0	127.6	131.5	136.9	140.0	140.8	144.7	137.5°	459.5
110.5	112.0	112.8	115.1	115.1	115.9	119.0	124.5	126.8	130.7	134.6	140°	488.0
102.7	103.5	104.2	103.5	104.2	104.2	108.1	113.6	116.7	119.0	121.4	142.5°	517.5
94.1	93.3	93.3	93.3	91.0	90.2	91.8	97.2	98.0	100.3	105.8	145°	545.5
84.0	81.7	80.1	80.1	80.1	80.9	84.8	90.2	91.0	93.3	98.0	147.5°	572.5
74.7	73.9	73.9	74.7	75.5	77.0	80.1	85.6	86.3	88.7	92.6	150°	593.0
70.0	70.0	70.0	70.8	71.6	72.3	76.2	81.7	83.2	85.6	90.2	152.5°	608.5
66.9	67.7	66.9	66.9	67.7	69.2	73.1	79.3	81.7	84.0	88.7	155°	626.0
64.6	64.6	64.6	65.3	65.3	66.9	71.6	77.8	79.3	82.5	89.5	157.5°	643.5
61.5	63.0	62.2	63.0	63.8	65.3	70.0	76.2	78.6	83.2	91.0	160°	657.5
59.9	59.9	59.9	60.7	62.2	63.0	66.9	73.9	77.0	83.2	95.7	162.5°	667.0
59.1	57.6	57.6	58.3	59.9	61.5	65.3	72.3	76.2	82.5	94.9	165°	676.0
58.3	56.0	55.2	56.0	57.6	58.3	63.0	70.0	75.5	80.1	91.8	167.5°	685.0
56.0	54.5	53.7	54.5	56.0	57.6	61.5	68.5	72.3	78.6	87.9	170°	692.0
55.2	52.9	52.9	53.7	55.2	56.0	59.9	66.9	70.8	79.3	90.2	172.5°	694.0
52.1	51.3	51.3	52.1	52.1	53.7	58.3	65.3	68.5	80.9	75.5	175°	696.0
49.8	49.8	49.8	49.8	50.6	51.3	56.8	63.8	65.3	70.0	64.6	177.5°	699.5
48.2	48.2	48.2	48.2	48.2	49.8	54.5	61.5	62.2	61.5	59.1	180°	700.0
45.1	45.1	45.1	45.1	45.9	46.7	51.3	57.6	57.6	56.0	56.0		
42.8	42.0	42.0	42.0	42.0	42.8	47.5	53.7	52.9	52.1	52.1		
38.1	38.1	38.1	38.1	38.1	38.1	42.8	49.0	48.2	47.5	46.7		
33.4	33.4	34.2	33.4	32.7	31.9	36.6	43.6	43.6	42.8	42.0		
28.8	28.0	28.8	28.0	26.4	26.4	30.3	36.6	37.3	36.6	35.0		
23.3	22.6	22.6	22.6	19.4	19.4	23.3	29.6	29.6	28.8	27.2		
17.9	17.1	16.3	15.6	13.2	13.2	16.3	21.8	22.6	19.4	18.7		
9.3	9.3	9.3	7.0	6.2	5.4	8.6	13.2	13.2	10.9	9.3		
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		

'227299
 ISW-AF-1000-LED-E1-SLR-7030-ULG

REPORT NUMBER: P227299
 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°	1527.0	1527.0
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	1429.0	1436.0
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	1154.4	1181.6
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	872.8	909.4
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	699.3	724.2
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	613.8	649.6
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	526.6	565.5
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	431.7	479.2
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	329.8	376.5
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	231.8	271.5
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	168.8	186.7
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	150.1	157.1
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	140.8	145.5
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	126.8	131.5
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	111.2	117.5
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	103.5	108.1
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	98.8	99.6
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	94.9	94.9
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	92.6	94.9
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	94.1	104.2
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	105.8	102.7
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	108.1	96.5
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	98.8	92.6
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	88.7	80.9
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	79.3	74.7
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	73.9	72.3
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	67.7	69.2
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	63.0	66.1
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	60.7	63.0
										70°	56.8	58.3
										72.5°	52.9	53.7
										75°	47.5	48.2
										77.5°	42.0	42.0
										80°	34.2	34.2
										82.5°	26.4	25.7
										85°	17.1	16.3
										87.5°	7.8	6.2
										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: P227299

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

000-LED-E1-SLR-7030-ULG

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	110°	102.0	108.0	114.0
1471.0	1492.8	1509.9	1506.8	1543.4	1565.1	1568.3	1590.8	1612.6	112.5°	134.0	138.5	143.0
1203.4	1233.8	1263.3	1285.1	1342.7	1390.1	1426.7	1465.6	1511.5	115°	168.0	171.0	174.0
959.2	984.8	1033.1	1068.1	1128.7	1184.0	1237.6	1299.1	1351.2	117.5°	202.0	203.5	205.0
751.5	784.1	829.2	894.6	949.0	1012.1	1079.7	1138.1	1225.2	120°	237.0	240.0	243.0
675.2	695.4	732.8	763.9	831.6	898.5	974.7	1054.8	1135.0	122.5°	271.0	274.0	277.0
596.7	632.4	667.4	712.6	771.7	844.8	927.3	1013.6	1103.8	125°	305.0	307.5	310.0
520.4	567.9	606.0	655.0	721.1	813.7	921.0	1028.4	1134.2	127.5°	339.0	339.5	340.0
427.1	471.4	538.3	588.1	674.4	790.4	928.0	1076.6	1219.8	130°	370.0	371.0	372.0
336.1	383.5	459.7	533.6	628.5	777.9	956.0	1156.0	1347.3	132.5°	404.0	404.5	405.0
240.4	304.9	380.4	473.7	588.9	770.1	994.2	1254.0	1511.5	135°	435.0	436.0	437.0
179.7	224.8	316.6	418.5	544.5	756.1	1034.6	1345.0	1623.5	137.5°	464.0	466.0	468.0
160.2	192.1	252.0	359.4	490.1	728.9	1065.0	1431.3	1725.4	140°	491.0	494.0	497.0
140.0	164.9	212.4	303.4	441.1	686.9	1078.2	1477.2	1796.2	142.5°	521.0	523.0	525.0
122.9	146.2	194.5	281.6	416.2	639.4	1075.8	1523.1	1884.9	145°	550.0	550.5	551.0
112.0	132.2	186.7	276.2	396.7	595.9	1078.2	1597.0	2016.3	147.5°	574.0	574.5	575.0
103.5	126.8	180.5	264.5	387.4	571.8	1087.5	1662.4	2129.1	150°	593.0	593.0	593.0
103.5	125.2	164.9	248.2	382.7	574.1	1091.4	1712.9	2213.1	152.5°	610.0	610.0	610.0
108.9	117.5	153.2	238.8	385.8	591.2	1086.7	1764.3	2294.8	155°	630.0	629.0	628.0
103.5	109.7	145.5	237.3	385.8	603.7	1100.7	1828.1	2402.2	157.5°	646.0	645.5	645.0
98.0	101.9	143.1	234.9	378.1	615.3	1158.3	1947.1	2542.2	160°	655.0	655.0	655.0
91.0	95.7	140.0	231.0	369.5	630.1	1260.2	2147.0	2774.0	162.5°	661.0	662.0	663.0
82.5	91.8	135.4	224.8	364.1	656.6	1364.4	2349.3	3050.2	165°	673.0	673.0	673.0
79.3	87.9	124.5	210.0	358.6	685.3	1475.7	2543.0	3298.3	167.5°	688.0	686.5	685.0
77.0	84.8	115.1	199.1	353.9	699.3	1509.1	2616.9	3394.0	170°	693.0	692.0	691.0
75.5	83.2	109.7	189.8	348.5	700.1	1533.3	2644.9	3408.0	172.5°	690.0	690.0	690.0
73.1	80.1	98.8	170.4	331.4	699.3	1535.6	2662.8	3367.6	175°	691.0	690.5	690.0
69.2	77.0	99.6	160.2	300.3	666.7	1439.1	2576.4	3206.5	177.5°	697.0	696.0	695.0
66.1	74.7	105.0	162.6	267.6	582.7	1258.7	2308.0	2861.9	180°	700.0	700.0	700.0
61.5	73.1	109.7	168.0	258.3	483.9	952.2	1884.9	2396.7				
56.8	72.3	113.6	171.9	248.2	398.3	659.7	1336.4	1793.8				
51.3	66.1	103.5	146.2	205.4	289.4	424.7	874.4	1236.9				
44.3	52.9	75.5	102.7	150.9	202.3	251.3	528.2	809.0				
36.6	39.7	53.7	66.1	100.3	119.8	139.2	297.9	565.5				
27.2	28.0	36.6	42.0	56.8	66.1	83.2	182.8	458.2				
15.6	17.9	24.9	28.0	34.2	42.0	54.5	116.7	359.4				
6.2	7.8	14.8	16.3	18.7	23.3	30.3	67.7	112.0				
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-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°	1527.0	1527.0	1527.0	1527.0
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	1634.4	1650.7	1664.7	1675.6
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	1560.5	1598.6	1644.5	1683.4
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	1429.0	1477.2	1551.9	1597.8
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	1304.5	1375.3	1457.0	1523.1
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	1219.8	1307.7	1385.4	1459.3
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	1196.4	1285.9	1355.9	1423.6
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	1243.1	1332.6	1392.4	1433.7
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	1352.8	1448.5	1486.6	1483.5
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	1502.9	1603.3	1603.3	1572.1
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	1701.3	1773.6	1734.0	1674.8
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	1842.1	1909.8	1840.5	1743.3
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	1958.8	2008.6	1920.6	1803.2
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	2061.4	2098.0	1982.1	1866.2
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	2184.4	2197.6	2045.9	1922.2
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	2320.5	2331.4	2137.7	1983.7
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	2480.7	2441.8	2205.4	2040.4
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	2579.5	2515.7	2254.4	2070.0
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	2657.3	2570.2	2276.9	2087.1
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	2753.0	2650.3	2316.6	2118.2
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	2879.0	2761.6	2417.0	2206.1
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	3137.3	2991.8	2597.4	2359.4
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	3434.5	3296.8	2886.0	2612.2
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	3672.5	3579.9	3143.5	2840.9
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	3760.4	3720.7	3325.5	3034.6
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	3793.1	3827.3	3422.0	3152.8
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	3815.6	3964.2	3735.5	3506.0
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	3768.9	3986.8	3862.3	3721.5
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	3565.9	3826.5	3802.4	3678.7
								70°	3150.5	3440.7	3524.7	3348.9
								72.5°	2370.3	2730.4	3188.6	2913.3
								75°	1544.1	1877.1	2722.7	2495.5
								77.5°	966.9	1171.5	1942.4	1748.0
								80°	643.3	753.0	1233.0	1122.5
								82.5°	483.9	533.6	847.9	797.4
								85°	255.2	325.2	659.7	836.2
								87.5°	95.7	106.6	496.3	747.6
								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: P227299

CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-7030-ULG

J-ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	110°	117.0	116.0	117.5	119.0	120.0
1684.9	1698.9	1707.5	1701.3	1711.4	1713.7	1702.8	112.5°	147.0	147.0	148.0	149.0	149.5
1716.1	1755.0	1783.0	1802.4	1810.2	1817.2	1814.1	115°	178.0	177.0	178.0	179.0	180.5
1658.5	1718.4	1770.5	1806.3	1818.7	1828.1	1819.5	117.5°	209.0	208.0	209.0	210.0	212.5
1594.7	1656.9	1705.9	1741.7	1741.0	1750.3	1734.0	120°	243.0	243.0	244.0	245.0	247.5
1534.8	1595.5	1639.0	1637.5	1626.6	1599.4	1594.7	122.5°	277.0	276.0	277.0	278.0	280.5
1487.4	1519.2	1530.1	1527.8	1496.7	1481.1	1478.8	125°	310.0	310.0	310.0	310.0	312.5
1464.0	1462.5	1437.6	1410.3	1380.8	1379.2	1359.0	127.5°	347.0	345.0	345.5	346.0	346.0
1467.9	1417.3	1371.4	1324.8	1292.9	1285.9	1288.2	130°	380.0	379.0	380.0	381.0	381.0
1516.9	1427.5	1341.1	1293.7	1256.3	1245.4	1250.1	132.5°	415.0	414.0	414.0	414.0	415.0
1578.4	1458.6	1351.2	1278.9	1248.5	1235.3	1237.6	135°	451.0	450.0	448.5	447.0	447.5
1619.6	1494.4	1384.7	1295.2	1254.0	1241.5	1249.3	137.5°	482.0	481.0	478.5	476.0	475.5
1672.5	1543.4	1429.8	1337.2	1275.8	1259.4	1264.9	140°	511.0	509.0	506.5	504.0	503.0
1724.6	1596.3	1493.6	1388.6	1313.9	1283.5	1292.1	142.5°	536.0	534.0	533.5	533.0	533.0
1780.6	1657.7	1554.3	1458.6	1370.7	1323.2	1334.1	145°	560.0	558.0	559.5	561.0	561.5
1846.0	1729.3	1640.6	1552.7	1462.5	1422.8	1427.5	147.5°	585.0	583.0	584.5	586.0	585.5
1909.0	1799.3	1742.5	1677.2	1624.3	1563.6	1563.6	150°	610.0	606.0	604.5	603.0	601.5
1946.3	1890.3	1874.8	1856.1	1825.0	1781.4	1772.1	152.5°	628.0	623.0	620.5	618.0	616.0
1992.2	1998.4	2034.2	2071.6	2080.9	2038.1	2024.9	155°	641.0	638.0	637.0	636.0	633.5
2078.6	2143.9	2261.4	2363.3	2383.5	2418.5	2378.1	157.5°	655.0	650.0	650.0	650.0	649.0
2199.9	2320.5	2518.9	2685.3	2732.8	2735.9	2739.0	160°	666.0	660.0	660.5	661.0	662.5
2338.4	2511.1	2773.2	2971.6	3056.4	3078.9	3062.6	162.5°	674.0	668.0	669.0	670.0	670.5
2575.6	2732.0	3019.0	3233.0	3341.9	3394.8	3380.8	165°	682.0	678.0	679.0	680.0	678.5
2810.6	3005.0	3257.9	3468.7	3584.6	3643.7	3656.2	167.5°	694.0	688.0	688.0	688.0	686.0
2970.8	3152.8	3386.2	3580.7	3695.0	3765.8	3772.1	170°	701.0	696.0	695.0	694.0	691.5
3068.8	3235.3	3463.2	3634.4	3748.7	3808.6	3830.4	172.5°	701.0	696.0	695.0	694.0	693.0
3366.0	3396.3	3551.9	3664.7	3744.8	3772.1	3788.4	175°	699.0	694.0	695.0	696.0	695.5
3505.2	3378.4	3360.5	3430.6	3437.6	3419.7	3397.1	177.5°	702.0	698.0	699.5	701.0	700.0
3311.5	3015.2	2905.5	2896.1	2867.4	2855.7	2784.1	180°	700.0	700.0	700.0	700.0	700.0
2875.9	2448.8	2255.1	2150.1	2213.9	2211.6	2138.5						
2423.2	1988.3	1737.1	1586.1	1567.5	1564.4	1500.6						
1968.1	1560.5	1340.3	1267.2	1179.3	1152.9	1163.7						
1418.9	1114.0	1067.3	1123.3	1130.3	1110.1	1096.1						
893.8	837.8	882.9	984.8	1044.7	1018.3	1028.4						
745.2	659.7	662.8	770.1	810.6	816.8	795.8						
826.9	660.4	541.4	528.2	514.2	323.6	450.4						
745.2	511.1	301.0	248.2	152.5	87.9	91.0						
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°	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	1700.5	1685.7	1669.4	1647.6	1651.5	1625.0
182.0	180.5	179.0	176.5	174.0	171.0	5°	1790.0	1764.3	1729.3	1684.9	1643.7	1590.8
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	1780.6	1739.4	1681.1	1614.2	1559.7	1483.5
250.0	248.0	246.0	244.5	243.0	240.0	10°	1700.5	1646.8	1599.4	1530.1	1459.3	1392.4
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	1588.5	1558.1	1516.9	1464.8	1396.3	1327.9
315.0	314.0	313.0	311.5	310.0	307.5	15°	1466.4	1468.7	1443.8	1429.8	1395.6	1341.1
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	1366.0	1389.3	1402.6	1424.3	1428.2	1401.8
381.0	379.0	377.0	374.5	372.0	371.0	20°	1299.1	1331.8	1373.0	1432.9	1495.9	1523.1
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	1261.8	1302.2	1368.3	1477.2	1592.4	1661.6
448.0	445.5	443.0	440.0	437.0	436.0	25°	1254.8	1308.4	1401.0	1534.0	1683.4	1780.6
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	1266.4	1336.4	1446.1	1597.8	1744.8	1885.6
502.0	501.0	500.0	498.5	497.0	494.0	30°	1303.8	1385.4	1505.2	1668.6	1821.1	1961.1
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	1339.6	1440.7	1572.9	1732.4	1885.6	2024.9
562.0	559.0	556.0	553.5	551.0	550.5	35°	1397.1	1499.0	1634.4	1781.4	1930.0	2087.9
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	1485.0	1574.5	1682.6	1819.5	1974.3	2137.7
600.0	598.5	597.0	595.0	593.0	593.0	40°	1610.3	1669.4	1739.4	1847.5	1996.1	2171.1
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	1797.7	1810.2	1834.3	1890.3	2015.6	2210.0
631.0	628.5	626.0	627.0	628.0	629.0	45°	2039.7	2002.3	1981.3	1973.5	2059.1	2234.9
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	2320.5	2247.4	2163.4	2122.9	2143.1	2274.6
664.0	661.0	658.0	656.5	655.0	655.0	50°	2686.1	2567.1	2402.2	2285.5	2275.4	2391.3
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	3021.4	2865.8	2658.1	2520.4	2464.4	2609.1
677.0	674.5	672.0	672.5	673.0	673.0	55°	3338.0	3218.2	2983.3	2812.1	2792.7	2897.7
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	3615.7	3512.2	3320.1	3096.8	3104.6	3206.5
689.0	687.5	686.0	688.5	691.0	692.0	59°	3759.6	3673.3	3495.1	3268.0	3285.1	3425.1
692.0	690.5	689.0	689.5	690.0	690.0	60°	3811.0	3738.6	3569.0	3377.7	3399.4	3544.9
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	3807.1	3760.4	3637.5	3547.2	3658.5	3765.1
699.0	696.5	694.0	694.5	695.0	696.0	65°	3443.8	3373.0	3359.0	3516.9	3731.6	3834.3
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	2739.0	2772.5	2905.5	3177.0	3537.1	3686.5
						70°	2034.2	2093.3	2270.7	2611.4	3106.2	3364.4
						72.5°	1495.9	1555.0	1718.4	2091.8	2555.4	2784.1
						75°	1173.9	1191.8	1309.2	1602.5	2014.0	2201.5
						77.5°	1084.4	1030.7	982.5	1139.6	1358.2	1519.2
						80°	1009.7	907.8	794.2	841.7	894.6	1065.7
						82.5°	784.1	716.5	627.8	688.4	713.3	718.8
						85°	459.0	408.4	517.3	732.8	725.0	634.8
						87.5°	161.8	210.0	236.5	406.1	490.9	424.7
						90°	8.0	10.3	15.0	15.3	18.7	9.9
						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°
1527.0	1527.0	1527.0	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
1604.0	1582.3	1580.7	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
1548.8	1499.8	1484.2	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
1417.3	1360.6	1348.9	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
1306.9	1243.9	1233.0	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
1250.1	1190.2	1177.0	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
1271.9	1205.8	1198.8	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
1353.6	1283.5	1286.7	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
1493.6	1448.5	1437.6	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
1677.2	1628.2	1614.2	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
1833.5	1808.6	1799.3	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
1946.3	1958.0	1948.7	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
2036.6	2075.5	2070.8	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
2129.1	2204.6	2207.7	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
2197.6	2330.6	2357.8	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
2285.5	2463.6	2491.6	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
2352.4	2561.6	2595.9	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
2417.7	2642.5	2679.9	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
2471.4	2722.7	2760.8	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
2532.1	2800.5	2837.8	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
2641.0	2922.6	2966.9	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
2875.1	3149.0	3212.0	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
3213.5	3461.7	3511.5	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
3518.5	3674.0	3687.3	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
3643.7	3732.4	3728.5	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
3735.5	3746.4	3724.6	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
3785.3	3681.8	3644.5	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
3655.4	3511.5	3462.5	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
3280.4	3204.2	3148.2	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
2790.3	2597.4	2560.9								
2115.1	1860.7	1806.3								
1478.0	1173.1	1099.2								
971.6	753.0	725.0								
630.1	500.2	491.6								
439.5	328.3	302.6								
269.9	109.7	105.0								
84.0	50.6	45.1								
7.3	8.1	8.1								
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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