

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: P227273

Luminaire Tested: **ISW-AF-800-LED-E1-SLR-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227273
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-800-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: 6153.8 lumens
Efficiency: N/A
Efficacy: 102.2 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): 60.2
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

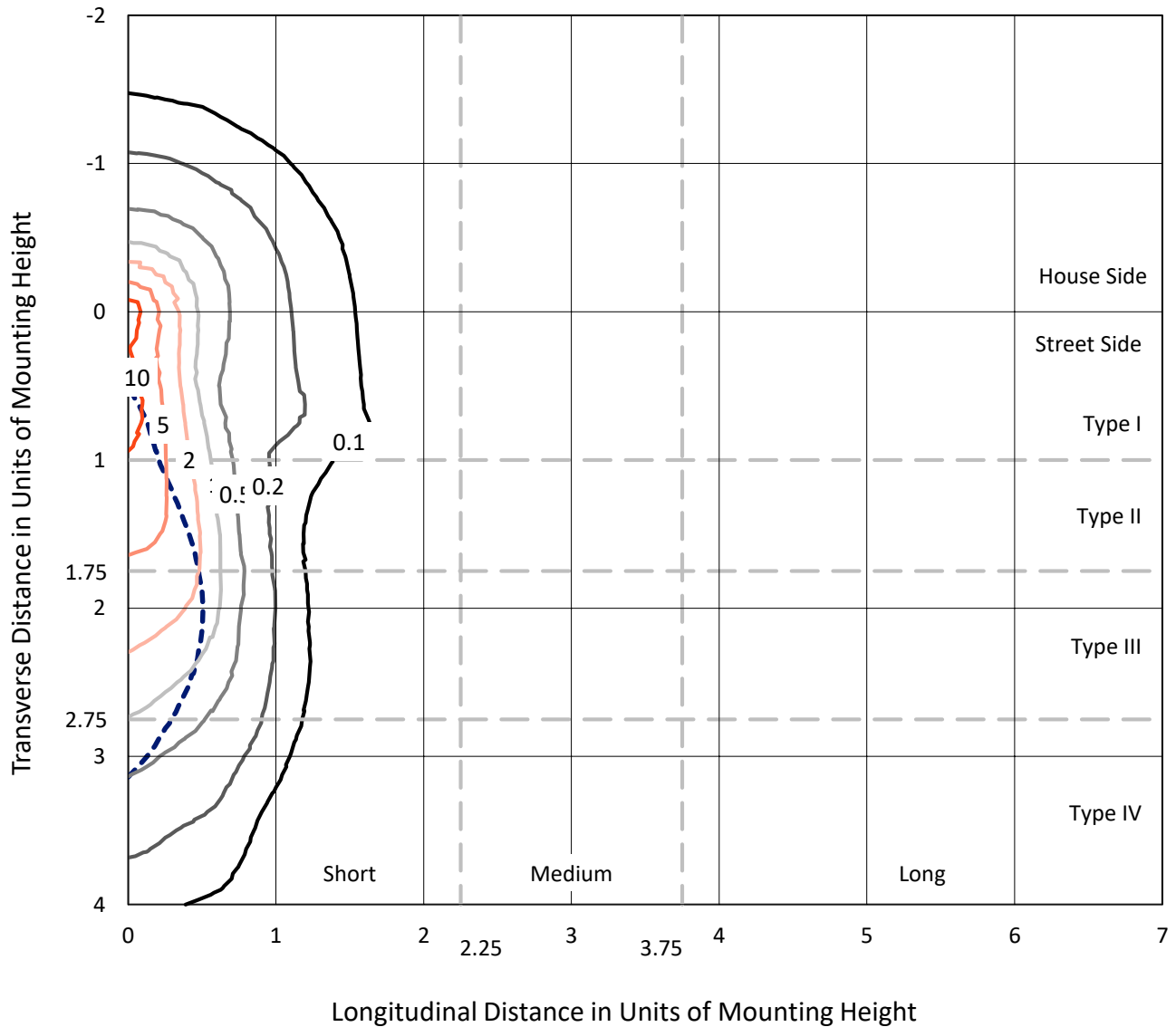


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Iso-Footcandle Lines of Horizontal Illumination

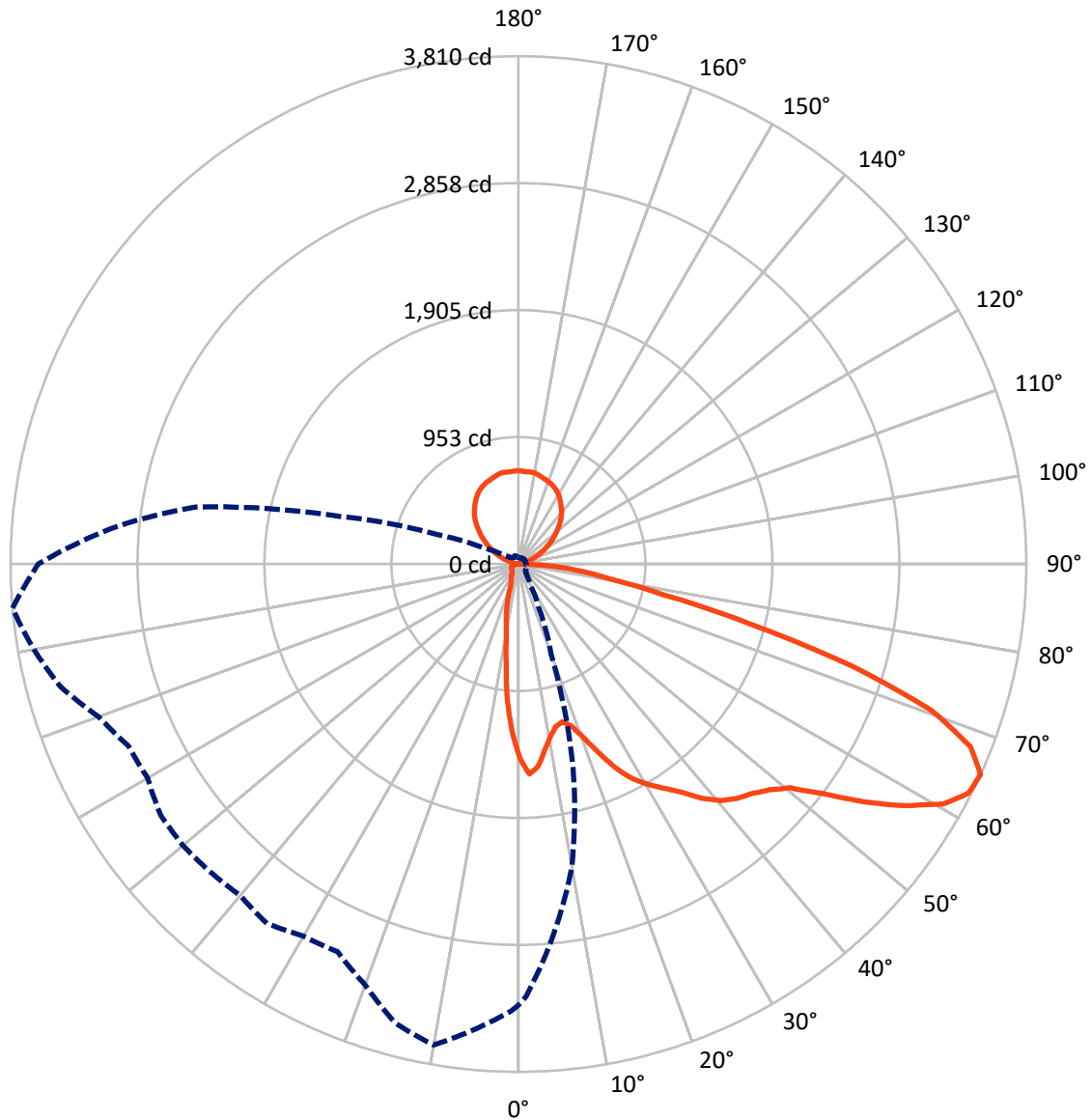
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.6 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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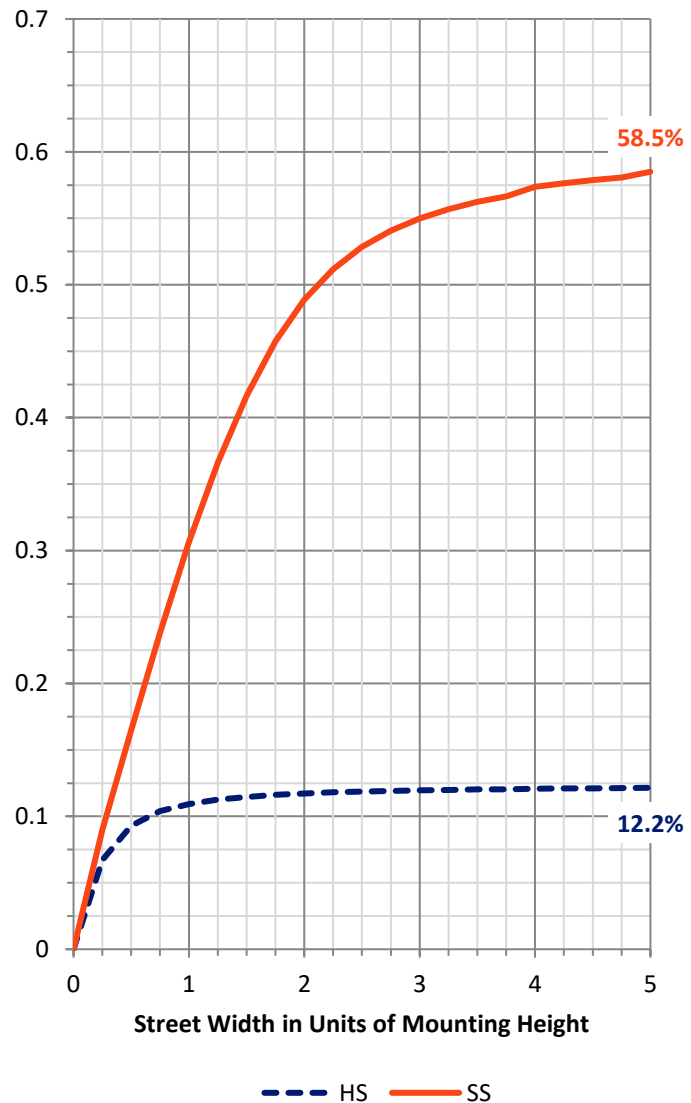
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	758.3	867.6	1625.9
	% Fixture	12.3	14.1	26.4
Street Side	Lumens	3660.2	867.7	4528.0
	% Fixture	59.5	14.1	73.6
Total	Lumens	4418.5	1735.3	6153.8
	% Fixture	71.8	28.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	1.8
10°-20°	208.0	3.4
20°-30°	296.7	4.8
30°-40°	430.4	7.0
40°-50°	615.7	10.0
50°-60°	945.3	15.4
60°-70°	1094.1	17.8
70°-80°	558.2	9.1
80°-90°	162.1	2.6
90°-100°	9.5	0.2
100°-110°	57.4	0.9
110°-120°	166.1	2.7
120°-130°	273.2	4.4
130°-140°	336.8	5.5
140°-150°	344.6	5.6
150°-160°	290.3	4.7
160°-170°	191.2	3.1
170°-180°	66.3	1.1
0°-90°	4418.5	71.8
0°-180°	6153.8	100.0



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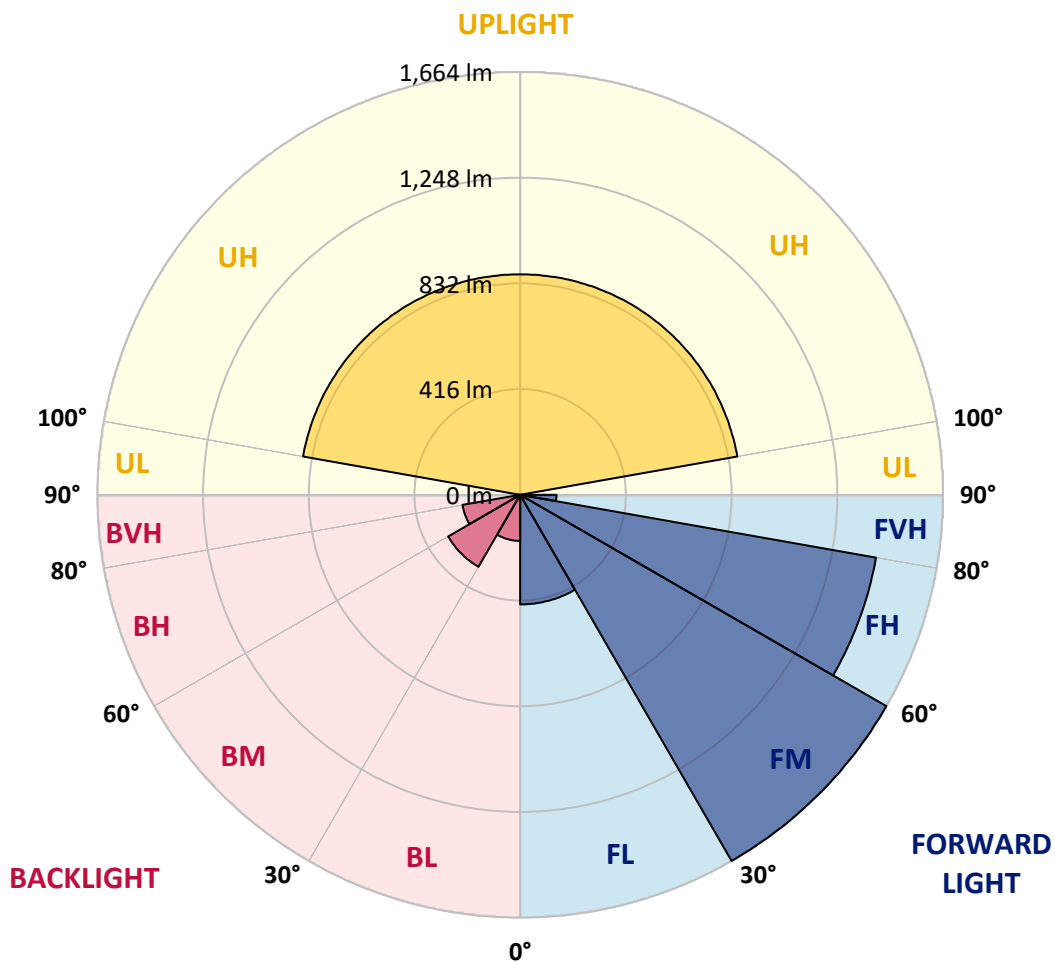
CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.4	7.0			
FM (30°-60°)	1664.1	27.0			
FH (60°-80°)	1421.8	23.1			G1/1800
FVH (80°-90°)	142.9	2.3			G2/225
BL (0°-30°)	181.4	2.9	B1/500		
BM (30°-60°)	327.2	5.3	B1/1000		
BH (60°-80°)	230.5	3.7	B1/500		G1/500
BVH (80°-90°)	19.2	0.3			G1/100
UL (90°-100°)	9.5	0.2		U1/10	
UH (100°-180°)	867.6	14.1		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°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1510.7	1501.8	1490.7	1471.3	1454.2	1429.7	1423.7	1393.3	1373.9	1378.4	1343.4
5°	1418.5	1413.3	1385.8	1342.7	1314.5	1258.7	1226.7	1210.4	1164.3	1158.3	1145.7
7.5°	1289.2	1273.6	1229.0	1175.4	1127.1	1086.2	1034.9	995.5	960.6	939.0	901.1
10°	1178.4	1162.0	1113.7	1048.3	990.3	933.1	891.4	840.1	790.3	751.6	721.2
12.5°	1124.9	1107.0	1050.5	974.7	910.0	838.6	779.9	729.3	701.8	682.5	657.2
15°	1145.7	1119.7	1052.0	961.3	881.0	805.2	742.7	688.5	655.7	626.0	596.3
17.5°	1229.7	1197.7	1120.4	1011.1	899.6	801.5	712.2	650.5	598.5	553.9	513.7
20°	1373.9	1350.1	1237.9	1084.7	939.7	803.7	686.2	605.2	542.0	485.5	432.0
22.5°	1542.7	1507.0	1397.0	1184.3	991.0	817.1	669.9	567.3	492.2	416.3	358.4
25°	1719.6	1692.1	1546.4	1318.2	1069.9	844.6	657.2	533.8	433.4	349.4	285.5
27.5°	1862.4	1837.9	1693.6	1446.8	1142.0	868.4	638.6	501.8	386.6	285.5	214.9
30°	1979.1	1958.3	1807.4	1552.4	1229.7	876.5	612.6	464.7	334.6	230.5	177.7
32.5°	2110.0	2086.9	1916.7	1626.0	1269.1	869.1	582.9	429.7	292.9	203.7	152.4
35°	2253.5	2226.7	2038.6	1705.5	1301.8	843.1	557.6	404.4	272.9	185.1	135.3
37.5°	2381.3	2364.2	2148.6	1784.3	1339.0	800.0	533.1	376.9	259.5	171.7	121.9
40°	2481.0	2476.5	2270.6	1849.8	1368.0	768.7	513.0	355.4	242.4	166.5	117.5
42.5°	2561.3	2559.8	2370.2	1908.5	1375.4	741.2	497.4	336.0	226.8	153.9	119.7
45°	2638.6	2637.8	2466.8	1990.3	1380.6	742.7	485.5	324.2	213.4	145.7	113.0
47.5°	2712.2	2723.3	2567.9	2104.0	1435.6	768.0	481.0	313.0	203.0	136.8	107.1
50°	2835.6	2824.4	2727.8	2257.9	1524.1	817.1	473.6	303.3	193.3	128.6	101.1
52.5°	3069.8	3057.1	2970.9	2463.9	1620.8	867.6	463.9	290.0	182.1	119.7	94.4
55°	3356.0	3373.1	3253.4	2714.4	1752.4	910.0	453.5	272.1	167.3	109.3	90.0
57.5°	3524.0	3509.9	3373.1	2858.6	1833.4	931.6	446.8	251.3	144.2	100.4	85.5
59°	3563.4	3539.7	3353.0	2883.2	1855.0	921.2	443.1	231.2	132.3	95.9	83.3
60°	3559.7	3530.7	3321.1	2867.6	1860.9	908.5	437.2	219.3	125.6	93.7	82.5
62.5°	3483.2	3437.8	3139.7	2678.7	1777.6	845.3	412.6	191.1	116.7	90.7	78.1
65°	3309.2	3245.2	2834.8	2310.0	1586.6	719.7	356.9	180.7	119.0	89.2	75.1
67.5°	3008.8	2957.5	2443.0	1911.5	1264.6	581.4	308.5	176.2	121.9	90.7	70.6
70°	2447.5	2403.6	1906.3	1431.2	947.2	462.4	280.3	174.0	119.7	87.0	66.9
72.5°	1726.3	1650.5	1266.9	1002.2	600.7	371.7	243.1	164.3	116.7	84.0	61.0
75°	1050.5	1064.6	805.2	730.1	379.2	255.0	191.1	138.3	103.3	75.1	55.0
77.5°	692.9	692.2	594.0	515.2	192.6	158.4	135.3	106.3	81.0	61.7	47.6
80°	469.9	475.1	431.2	351.7	107.1	95.2	88.5	77.3	59.5	46.8	39.4
82.5°	289.2	290.0	333.8	263.2	71.4	60.2	56.5	52.0	42.4	36.4	30.5
85°	100.4	102.6	116.7	185.9	48.3	39.4	39.4	36.4	32.0	24.5	20.1
87.5°	43.1	42.4	50.6	50.6	23.8	20.1	18.6	18.6	17.8	13.4	11.2
90°	8.0	7.2	7.2	9.0	10.7	12.7	12.5	13.2	13.2	12.0	10.0
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°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1333.0	1324.9	1301.8	1295.9	1303.3	1288.4	1284.7	1281.0	1253.5	1267.6	1251.3
5°	1114.5	1112.2	1065.4	1075.1	1065.4	1049.0	1042.3	1058.0	1030.4	1036.4	1040.1
7.5°	856.5	847.6	816.3	795.5	782.9	771.7	757.6	734.5	752.4	748.7	776.9
10°	695.1	675.8	656.5	627.5	611.1	595.5	579.2	570.2	549.4	547.2	537.5
12.5°	637.2	609.6	585.1	559.8	542.7	511.5	485.5	469.1	455.7	434.9	419.3
15°	559.8	536.8	504.8	480.3	453.5	425.3	400.0	379.2	369.5	350.2	341.3
17.5°	481.8	446.8	408.2	383.6	346.5	317.5	296.6	283.3	269.1	257.2	246.8
20°	388.1	342.7	301.1	269.9	240.9	212.6	203.0	186.6	180.7	176.2	179.9
22.5°	295.2	248.3	205.2	181.4	165.8	158.4	150.2	147.2	145.0	144.2	145.7
25°	216.3	176.9	156.1	147.2	141.3	136.8	133.8	131.6	130.1	129.4	130.1
27.5°	167.3	146.5	136.1	130.1	125.6	122.7	121.2	119.0	118.2	117.5	118.2
30°	145.0	133.8	126.4	120.4	115.2	110.0	107.8	107.1	107.8	108.5	107.8
32.5°	126.4	118.2	110.0	104.8	101.1	98.1	98.1	96.7	96.7	98.9	99.6
35°	114.5	106.3	100.4	93.7	89.2	86.2	84.0	82.5	83.3	83.3	85.5
37.5°	104.8	98.9	93.7	87.7	83.3	80.3	78.8	77.3	76.6	75.8	75.8
40°	98.1	94.4	90.0	84.0	79.6	76.6	75.1	73.6	72.9	72.1	72.1
42.5°	98.1	90.7	87.7	82.5	77.3	74.3	72.1	70.6	69.1	69.1	69.1
45°	107.8	92.9	87.7	81.8	76.6	72.9	70.6	68.4	66.9	66.9	66.2
47.5°	104.8	104.1	89.2	81.8	77.3	72.9	69.9	67.7	66.2	65.4	64.7
50°	99.6	108.5	99.6	84.0	77.3	72.1	69.1	66.9	64.7	63.9	63.9
52.5°	96.7	101.1	103.3	87.0	78.1	72.1	68.4	66.2	64.7	63.2	62.5
55°	89.2	95.2	98.9	85.5	78.1	70.6	66.9	64.7	62.5	61.7	61.0
57.5°	81.8	86.2	95.2	85.5	75.8	69.9	65.4	62.5	61.0	60.2	59.5
59°	79.6	79.6	84.8	87.7	74.3	69.1	64.7	61.7	60.2	59.5	58.0
60°	77.3	77.3	80.3	90.0	73.6	68.4	63.9	61.0	58.7	58.7	58.0
62.5°	74.3	72.1	73.6	84.0	71.4	66.9	62.5	59.5	57.2	57.2	56.5
65°	70.6	67.7	67.7	69.9	66.9	63.9	61.0	58.0	55.0	55.0	55.8
67.5°	66.9	63.9	63.2	63.2	61.7	61.0	58.0	55.0	53.5	53.5	53.5
70°	61.7	59.5	58.7	57.2	57.2	56.5	54.3	52.0	50.6	51.3	50.6
72.5°	55.8	54.3	52.8	52.8	52.0	51.3	49.1	47.6	46.8	47.6	47.6
75°	49.8	47.6	47.6	46.1	46.1	45.4	43.1	42.4	41.6	42.4	43.1
77.5°	42.4	40.9	40.1	40.1	40.1	40.1	37.2	36.4	36.4	37.9	37.9
80°	34.9	34.2	33.5	33.5	33.5	32.7	31.2	30.5	30.5	31.2	32.0
82.5°	26.8	25.3	25.3	26.0	26.8	26.8	24.5	23.0	23.0	24.5	26.0
85°	17.8	17.8	17.8	18.6	18.6	19.3	17.8	15.6	16.4	17.1	19.3
87.5°	9.7	10.4	9.7	8.9	10.4	9.7	9.7	8.9	9.7	10.4	11.2
90°	10.0	10.0	10.2	10.5	9.7	10.5	9.5	9.2	7.7	7.7	9.5
92.5°	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0	8.0	8.0	8.5
100°	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0	19.0	19.0	21.0
102.5°	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0	38.0	39.0	40.5
105°	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0	61.0	61.0	63.0
107.5°	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0	86.0	87.0	88.5



REPORT NUMBER: P227273

CATALOG NUMBER: ISW-AF-800-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



REPORT NUMBER: P227273

CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1266.1	1253.5	1246.8	1272.8	1270.6	1248.3	1248.3	1263.9	1264.6	1251.3	1266.9
5°	1044.6	1031.9	1043.8	1033.4	1039.4	1038.6	1047.5	1031.2	1037.9	1031.9	1017.8
7.5°	774.7	800.0	813.4	796.3	817.8	829.0	813.4	829.0	804.4	784.4	803.7
10°	533.1	561.3	556.1	583.6	594.0	600.0	611.1	597.0	579.9	574.7	560.6
12.5°	413.4	407.4	405.2	416.3	423.0	413.4	421.5	412.6	403.7	388.1	387.3
15°	323.4	313.7	307.1	294.4	290.0	292.2	295.9	295.9	278.1	278.8	285.5
17.5°	245.3	243.1	237.9	227.5	220.8	223.0	222.3	218.6	216.3	217.8	226.0
20°	184.4	182.1	185.1	188.1	185.9	186.6	183.6	179.9	178.4	179.9	181.4
22.5°	145.7	148.7	152.4	156.9	157.6	161.3	160.6	161.3	158.4	156.9	153.2
25°	133.1	134.6	132.3	133.1	133.1	136.8	136.1	136.1	133.1	132.3	133.1
27.5°	117.5	116.7	116.7	118.2	118.2	120.4	121.9	120.4	117.5	116.7	117.5
30°	108.5	107.8	107.1	107.8	107.1	107.8	109.3	109.3	107.8	105.6	106.3
32.5°	99.6	99.6	98.9	99.6	98.9	98.9	100.4	98.1	98.1	97.4	97.4
35°	87.7	89.2	90.7	91.4	91.4	91.4	92.9	90.7	90.0	89.2	89.2
37.5°	75.8	77.3	81.8	84.0	84.8	86.2	87.0	85.5	84.0	82.5	81.0
40°	72.1	72.1	73.6	76.6	79.6	80.3	81.8	79.6	78.8	76.6	74.3
42.5°	69.1	69.9	69.9	70.6	71.4	72.9	75.1	72.9	71.4	69.9	67.7
45°	66.9	66.9	66.9	66.9	66.2	66.2	66.9	65.4	64.7	63.9	63.9
47.5°	65.4	64.7	63.9	63.2	62.5	61.7	61.7	60.2	60.2	60.2	60.2
50°	63.9	62.5	61.7	61.0	59.5	59.5	59.5	58.0	57.2	57.2	58.0
52.5°	61.7	61.0	60.2	59.5	58.7	58.0	58.0	56.5	55.8	55.8	55.8
55°	61.0	60.2	58.7	58.0	57.2	58.0	57.2	56.5	55.0	55.0	55.0
57.5°	58.7	59.5	58.7	57.2	57.2	57.2	57.2	55.8	55.0	53.5	54.3
59°	58.0	58.7	58.0	57.2	56.5	57.2	57.2	55.0	54.3	53.5	53.5
60°	57.2	58.0	57.2	56.5	56.5	57.2	56.5	55.8	54.3	52.0	52.8
62.5°	56.5	56.5	55.8	55.8	55.0	55.8	55.0	53.5	52.0	50.6	49.8
65°	55.0	55.0	54.3	54.3	53.5	53.5	53.5	52.0	50.6	49.1	49.1
67.5°	54.3	53.5	52.8	52.8	52.0	52.0	52.0	50.6	48.3	47.6	46.8
70°	51.3	50.6	50.6	49.8	49.1	49.8	50.6	48.3	46.1	44.6	43.9
72.5°	48.3	47.6	47.6	46.8	46.8	47.6	48.3	46.1	43.1	41.6	40.9
75°	43.9	43.1	43.1	43.1	43.1	44.6	44.6	42.4	40.1	37.9	36.4
77.5°	37.9	38.7	38.7	38.7	38.7	40.1	40.1	38.7	36.4	34.9	32.7
80°	32.7	32.7	33.5	33.5	34.2	34.2	33.5	32.7	32.0	30.5	27.5
82.5°	27.5	27.5	27.5	27.5	27.5	26.8	25.3	26.8	26.8	25.3	23.0
85°	21.6	21.6	21.6	22.3	22.3	20.1	17.8	17.8	20.1	19.3	17.8
87.5°	12.6	12.6	13.4	15.6	14.1	13.4	11.2	11.9	11.2	12.6	10.4
90°	12.0	11.2	11.2	8.7	8.5	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°

NUMBER: P227273
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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°
1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	110°	80.5
1268.4	1271.3	1278.0	1275.8	1300.3	1292.9	1310.0	1333.0	1354.6	1344.2	1347.2	112.5°	113.5
1043.1	1046.8	1018.6	1035.7	1060.9	1050.5	1046.8	1081.0	1072.8	1111.5	1079.5	115°	153.0
772.5	763.5	750.2	743.5	724.9	724.9	759.8	775.4	773.2	800.0	827.5	117.5°	193.0
542.7	532.3	516.0	511.5	530.1	539.0	554.6	570.2	591.1	621.5	639.4	120°	229.5
398.5	394.8	398.5	409.7	426.8	439.4	463.2	490.7	513.7	538.3	562.1	122.5°	264.0
301.1	308.5	318.2	325.6	339.0	362.8	375.5	405.9	426.8	448.3	475.8	125°	297.5
234.2	238.7	240.9	243.9	255.0	272.1	272.1	303.3	330.8	359.1	382.1	127.5°	331.0
178.4	178.4	171.0	175.5	176.9	175.5	184.4	202.2	220.1	238.7	275.1	130°	364.0
149.4	145.0	142.7	142.0	142.7	145.7	150.9	157.6	160.6	168.8	182.9	132.5°	397.0
132.3	131.6	129.4	129.4	130.9	131.6	136.8	142.7	144.2	146.5	151.7	135°	429.0
116.7	118.2	120.4	119.7	120.4	121.9	125.6	130.9	133.8	134.6	138.3	137.5°	459.5
105.6	107.1	107.8	110.0	110.0	110.8	113.8	119.0	121.2	124.9	128.6	140°	488.0
98.1	98.9	99.6	98.9	99.6	99.6	103.3	108.5	111.5	113.8	116.0	142.5°	517.5
90.0	89.2	89.2	89.2	87.0	86.2	87.7	92.9	93.7	95.9	101.1	145°	545.5
80.3	78.1	76.6	76.6	76.6	77.3	81.0	86.2	87.0	89.2	93.7	147.5°	572.5
71.4	70.6	70.6	71.4	72.1	73.6	76.6	81.8	82.5	84.8	88.5	150°	593.0
66.9	66.9	66.9	67.7	68.4	69.1	72.9	78.1	79.6	81.8	86.2	152.5°	608.5
63.9	64.7	63.9	63.9	64.7	66.2	69.9	75.8	78.1	80.3	84.8	155°	626.0
61.7	61.7	61.7	62.5	62.5	63.9	68.4	74.3	75.8	78.8	85.5	157.5°	643.5
58.7	60.2	59.5	60.2	61.0	62.5	66.9	72.9	75.1	79.6	87.0	160°	657.5
57.2	57.2	57.2	58.0	59.5	60.2	63.9	70.6	73.6	79.6	91.4	162.5°	667.0
56.5	55.0	55.0	55.8	57.2	58.7	62.5	69.1	72.9	78.8	90.7	165°	676.0
55.8	53.5	52.8	53.5	55.0	55.8	60.2	66.9	72.1	76.6	87.7	167.5°	685.0
53.5	52.0	51.3	52.0	53.5	55.0	58.7	65.4	69.1	75.1	84.0	170°	692.0
52.8	50.6	50.6	51.3	52.8	53.5	57.2	63.9	67.7	75.8	86.2	172.5°	694.0
49.8	49.1	49.1	49.8	49.8	51.3	55.8	62.5	65.4	77.3	72.1	175°	696.0
47.6	47.6	47.6	47.6	48.3	49.1	54.3	61.0	62.5	66.9	61.7	177.5°	699.5
46.1	46.1	46.1	46.1	46.1	47.6	52.0	58.7	59.5	58.7	56.5	180°	700.0
43.1	43.1	43.1	43.1	43.9	44.6	49.1	55.0	55.0	53.5	53.5		
40.9	40.1	40.1	40.1	40.1	40.9	45.4	51.3	50.6	49.8	49.8		
36.4	36.4	36.4	36.4	36.4	36.4	40.9	46.8	46.1	45.4	44.6		
32.0	32.0	32.7	32.0	31.2	30.5	34.9	41.6	41.6	40.9	40.1		
27.5	26.8	27.5	26.8	25.3	25.3	29.0	34.9	35.7	34.9	33.5		
22.3	21.6	21.6	21.6	18.6	18.6	22.3	28.3	28.3	27.5	26.0		
17.1	16.4	15.6	14.9	12.6	12.6	15.6	20.8	21.6	18.6	17.8		
8.9	8.9	8.9	6.7	5.9	5.2	8.2	12.6	12.6	10.4	8.9		
7.5	7.0	6.0	5.0	5.0	5.0	6.0	7.7	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		

'227273
 ISW-AF-800-LED-E1-SLR-7050-ULG

REPORT NUMBER: P227273
 CATALOG NUMBER: ISW-AF-80

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°	1459.4	1459.4
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	1365.8	1372.4
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	1103.3	1129.3
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	834.2	869.1
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	668.4	692.2
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	586.6	620.8
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	503.3	540.5
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	412.6	458.0
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	315.2	359.8
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	221.6	259.5
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	161.3	178.4
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	143.5	150.2
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	134.6	139.0
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	121.2	125.6
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	106.3	112.3
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	98.9	103.3
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	94.4	95.2
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	90.7	90.7
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	88.5	90.7
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	90.0	99.6
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	101.1	98.1
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	103.3	92.2
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	94.4	88.5
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	84.8	77.3
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	75.8	71.4
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	70.6	69.1
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	64.7	66.2
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	60.2	63.2
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	58.0	60.2
										70°	54.3	55.8
										72.5°	50.6	51.3
										75°	45.4	46.1
										77.5°	40.1	40.1
										80°	32.7	32.7
										82.5°	25.3	24.5
										85°	16.4	15.6
										87.5°	7.4	5.9
										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

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tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	110°	102.0	108.0	114.0
1405.9	1426.7	1443.1	1440.1	1475.0	1495.9	1498.8	1520.4	1541.2	112.5°	134.0	138.5	143.0
1150.1	1179.1	1207.4	1228.2	1283.2	1328.6	1363.5	1400.7	1444.6	115°	168.0	171.0	174.0
916.7	941.2	987.3	1020.8	1078.8	1131.6	1182.9	1241.6	1291.4	117.5°	202.0	203.5	205.0
718.2	749.4	792.5	855.0	907.0	967.3	1031.9	1087.7	1171.0	120°	237.0	240.0	243.0
645.3	664.7	700.3	730.1	794.8	858.7	931.6	1008.1	1084.7	122.5°	271.0	274.0	277.0
570.2	604.4	637.9	681.0	737.5	807.4	886.2	968.7	1055.0	125°	305.0	307.5	310.0
497.4	542.7	579.2	626.0	689.2	777.7	880.3	982.9	1084.0	127.5°	339.0	339.5	340.0
408.2	450.5	514.5	562.1	644.6	755.4	887.0	1029.0	1165.8	130°	370.0	371.0	372.0
321.2	366.5	439.4	510.0	600.7	743.5	913.7	1104.8	1287.7	132.5°	404.0	404.5	405.0
229.7	291.4	363.6	452.8	562.8	736.0	950.2	1198.5	1444.6	135°	435.0	436.0	437.0
171.7	214.9	302.6	400.0	520.4	722.7	988.8	1285.5	1551.6	137.5°	464.0	466.0	468.0
153.2	183.6	240.9	343.5	468.4	696.6	1017.8	1368.0	1649.0	140°	491.0	494.0	497.0
133.8	157.6	203.0	290.0	421.5	656.5	1030.4	1411.8	1716.7	142.5°	521.0	523.0	525.0
117.5	139.8	185.9	269.1	397.8	611.1	1028.2	1455.7	1801.4	145°	550.0	550.5	551.0
107.1	126.4	178.4	263.9	379.2	569.5	1030.4	1526.3	1927.1	147.5°	574.0	574.5	575.0
98.9	121.2	172.5	252.8	370.2	546.4	1039.4	1588.8	2034.9	150°	593.0	593.0	593.0
98.9	119.7	157.6	237.2	365.8	548.7	1043.1	1637.1	2115.2	152.5°	610.0	610.0	610.0
104.1	112.3	146.5	228.2	368.8	565.0	1038.6	1686.2	2193.2	155°	630.0	629.0	628.0
98.9	104.8	139.0	226.8	368.8	576.9	1052.0	1747.2	2295.8	157.5°	646.0	645.5	645.0
93.7	97.4	136.8	224.5	361.3	588.1	1107.0	1860.9	2429.7	160°	655.0	655.0	655.0
87.0	91.4	133.8	220.8	353.1	602.2	1204.4	2052.0	2651.2	162.5°	661.0	662.0	663.0
78.8	87.7	129.4	214.9	347.9	627.5	1304.0	2245.3	2915.1	165°	673.0	673.0	673.0
75.8	84.0	119.0	200.7	342.7	655.0	1410.4	2430.4	3152.3	167.5°	688.0	686.5	685.0
73.6	81.0	110.0	190.3	338.3	668.4	1442.3	2501.0	3243.8	170°	693.0	692.0	691.0
72.1	79.6	104.8	181.4	333.1	669.1	1465.4	2527.8	3257.1	172.5°	690.0	690.0	690.0
69.9	76.6	94.4	162.8	316.7	668.4	1467.6	2544.9	3218.5	175°	691.0	690.5	690.0
66.2	73.6	95.2	153.2	287.0	637.2	1375.4	2462.4	3064.6	177.5°	697.0	696.0	695.0
63.2	71.4	100.4	155.4	255.8	556.9	1202.9	2205.9	2735.2	180°	700.0	700.0	700.0
58.7	69.9	104.8	160.6	246.8	462.4	910.0	1801.4	2290.6				
54.3	69.1	108.5	164.3	237.2	380.7	630.5	1277.3	1714.4				
49.1	63.2	98.9	139.8	196.3	276.6	405.9	835.7	1182.1				
42.4	50.6	72.1	98.1	144.2	193.3	240.1	504.8	773.2				
34.9	37.9	51.3	63.2	95.9	114.5	133.1	284.7	540.5				
26.0	26.8	34.9	40.1	54.3	63.2	79.6	174.7	437.9				
14.9	17.1	23.8	26.8	32.7	40.1	52.0	111.5	343.5				
5.9	7.4	14.1	15.6	17.8	22.3	29.0	64.7	107.1				
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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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°	1459.4	1459.4	1459.4	1459.4
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	1562.0	1577.6	1591.0	1601.4
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	1491.4	1527.8	1571.7	1608.9
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	1365.8	1411.8	1483.2	1527.1
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	1246.8	1314.5	1392.5	1455.7
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	1165.8	1249.8	1324.1	1394.7
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	1143.5	1229.0	1295.9	1360.5
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	1188.1	1273.6	1330.8	1370.2
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	1292.9	1384.3	1420.8	1417.8
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	1436.4	1532.3	1532.3	1502.6
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	1626.0	1695.1	1657.2	1600.7
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	1760.5	1825.2	1759.0	1666.1
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	1872.1	1919.6	1835.6	1723.4
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	1970.2	2005.1	1894.4	1783.6
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	2087.7	2100.3	1955.3	1837.1
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	2217.8	2228.2	2043.1	1895.8
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	2370.9	2333.7	2107.7	1950.1
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	2465.3	2404.4	2154.6	1978.4
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	2539.7	2456.4	2176.1	1994.7
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	2631.1	2533.0	2214.1	2024.5
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	2751.6	2639.3	2310.0	2108.5
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	2998.4	2859.4	2482.4	2254.9
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	3282.4	3150.8	2758.3	2496.6
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	3509.9	3421.4	3004.4	2715.1
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	3593.9	3556.0	3178.3	2900.3
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	3625.2	3657.9	3270.5	3013.3
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	3646.7	3788.7	3570.1	3350.8
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	3602.1	3810.3	3691.3	3556.8
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	3408.1	3657.1	3634.1	3515.9
								70°	3011.0	3288.4	3368.7	3200.6
								72.5°	2265.3	2609.6	3047.5	2784.3
								75°	1475.8	1794.0	2602.1	2385.0
								77.5°	924.1	1119.7	1856.4	1670.6
								80°	614.8	719.7	1178.4	1072.8
								82.5°	462.4	510.0	810.4	762.1
								85°	243.9	310.8	630.5	799.2
								87.5°	91.4	101.9	474.3	714.5
								90°	7.0	7.0	8.7	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

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ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	110°	117.0	116.0	117.5	119.0	120.0
1610.4	1623.7	1631.9	1626.0	1635.6	1637.9	1627.5	112.5°	147.0	147.0	148.0	149.0	149.5
1640.1	1677.3	1704.0	1722.6	1730.1	1736.7	1733.8	115°	178.0	177.0	178.0	179.0	180.5
1585.1	1642.3	1692.1	1726.3	1738.2	1747.2	1739.0	117.5°	209.0	208.0	209.0	210.0	212.5
1524.1	1583.6	1630.4	1664.6	1663.9	1672.8	1657.2	120°	243.0	243.0	244.0	245.0	247.5
1466.9	1524.9	1566.5	1565.0	1554.6	1528.6	1524.1	122.5°	277.0	276.0	277.0	278.0	280.5
1421.5	1452.0	1462.4	1460.2	1430.4	1415.6	1413.3	125°	310.0	310.0	310.0	310.0	312.5
1399.2	1397.7	1373.9	1347.9	1319.7	1318.2	1298.8	127.5°	347.0	345.0	345.5	346.0	346.0
1402.9	1354.6	1310.7	1266.1	1235.6	1229.0	1231.2	130°	380.0	379.0	380.0	381.0	381.0
1449.8	1364.3	1281.7	1236.4	1200.7	1190.3	1194.8	132.5°	415.0	414.0	414.0	414.0	415.0
1508.5	1394.0	1291.4	1222.3	1193.3	1180.6	1182.9	135°	451.0	450.0	448.5	447.0	447.5
1547.9	1428.2	1323.4	1237.9	1198.5	1186.6	1194.0	137.5°	482.0	481.0	478.5	476.0	475.5
1598.5	1475.0	1366.5	1278.0	1219.3	1203.7	1208.9	140°	511.0	509.0	506.5	504.0	503.0
1648.3	1525.6	1427.5	1327.1	1255.7	1226.7	1234.9	142.5°	536.0	534.0	533.5	533.0	533.0
1701.8	1584.3	1485.5	1394.0	1310.0	1264.6	1275.0	145°	560.0	558.0	559.5	561.0	561.5
1764.3	1652.7	1568.0	1484.0	1397.7	1359.8	1364.3	147.5°	585.0	583.0	584.5	586.0	585.5
1824.5	1719.6	1665.4	1602.9	1552.4	1494.4	1494.4	150°	610.0	606.0	604.5	603.0	601.5
1860.2	1806.6	1791.8	1773.9	1744.2	1702.5	1693.6	152.5°	628.0	623.0	620.5	618.0	616.0
1904.0	1910.0	1944.2	1979.9	1988.8	1947.9	1935.2	155°	641.0	638.0	637.0	636.0	633.5
1986.5	2049.0	2161.3	2258.7	2278.0	2311.4	2272.8	157.5°	655.0	650.0	650.0	650.0	649.0
2102.5	2217.8	2407.4	2566.5	2611.8	2614.8	2617.8	160°	666.0	660.0	660.5	661.0	662.5
2234.9	2399.9	2650.5	2840.1	2921.1	2942.6	2927.0	162.5°	674.0	668.0	669.0	670.0	670.5
2461.6	2611.1	2885.4	3089.9	3193.9	3244.5	3231.1	165°	682.0	678.0	679.0	680.0	678.5
2686.2	2872.0	3113.6	3315.1	3425.9	3482.4	3494.3	167.5°	694.0	688.0	688.0	688.0	686.0
2839.3	3013.3	3236.3	3422.2	3531.5	3599.1	3605.1	170°	701.0	696.0	695.0	694.0	691.5
2933.0	3092.1	3309.9	3473.5	3582.8	3640.0	3660.8	172.5°	701.0	696.0	695.0	694.0	693.0
3217.0	3246.0	3394.7	3502.5	3579.1	3605.1	3620.7	175°	699.0	694.0	695.0	696.0	695.5
3350.1	3228.9	3211.8	3278.7	3285.4	3268.3	3246.7	177.5°	702.0	698.0	699.5	701.0	700.0
3164.9	2881.7	2776.9	2767.9	2740.4	2729.3	2660.9	180°	700.0	700.0	700.0	700.0	700.0
2748.6	2340.4	2155.3	2054.9	2115.9	2113.7	2043.8						
2315.9	1900.3	1660.2	1515.9	1498.1	1495.1	1434.2						
1881.0	1491.4	1281.0	1211.1	1127.1	1101.8	1112.2						
1356.1	1064.6	1020.0	1073.6	1080.3	1060.9	1047.5						
854.2	800.7	843.8	941.2	998.5	973.2	982.9						
712.2	630.5	633.4	736.0	774.7	780.6	760.6						
790.3	631.2	517.5	504.8	491.4	309.3	430.5						
712.2	488.5	287.7	237.2	145.7	84.0	87.0						
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°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	1625.2	1611.1	1595.5	1574.7	1578.4	1553.1
182.0	180.5	179.0	176.5	174.0	171.0	5°	1710.7	1686.2	1652.7	1610.4	1570.9	1520.4
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	1701.8	1662.4	1606.6	1542.7	1490.7	1417.8
250.0	248.0	246.0	244.5	243.0	240.0	10°	1625.2	1573.9	1528.6	1462.4	1394.7	1330.8
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	1518.2	1489.2	1449.8	1400.0	1334.5	1269.1
315.0	314.0	313.0	311.5	310.0	307.5	15°	1401.4	1403.7	1379.9	1366.5	1333.8	1281.7
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	1305.5	1327.8	1340.5	1361.3	1365.0	1339.7
381.0	379.0	377.0	374.5	372.0	371.0	20°	1241.6	1272.8	1312.2	1369.5	1429.7	1455.7
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	1205.9	1244.6	1307.8	1411.8	1521.9	1588.0
448.0	445.5	443.0	440.0	437.0	436.0	25°	1199.2	1250.5	1339.0	1466.1	1608.9	1701.8
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	1210.4	1277.3	1382.1	1527.1	1667.6	1802.2
502.0	501.0	500.0	498.5	497.0	494.0	30°	1246.1	1324.1	1438.6	1594.7	1740.5	1874.3
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	1280.3	1376.9	1503.3	1655.7	1802.2	1935.2
562.0	559.0	556.0	553.5	551.0	550.5	35°	1335.3	1432.7	1562.0	1702.5	1844.5	1995.5
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	1419.3	1504.8	1608.1	1739.0	1886.9	2043.1
600.0	598.5	597.0	595.0	593.0	593.0	40°	1539.0	1595.5	1662.4	1765.7	1907.7	2075.0
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	1718.2	1730.1	1753.1	1806.6	1926.3	2112.2
631.0	628.5	626.0	627.0	628.0	629.0	45°	1949.4	1913.7	1893.6	1886.2	1968.0	2136.0
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	2217.8	2147.9	2067.6	2028.9	2048.3	2173.9
664.0	661.0	658.0	656.5	655.0	655.0	50°	2567.2	2453.4	2295.8	2184.3	2174.6	2285.4
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	2887.6	2738.9	2540.4	2408.8	2355.3	2493.6
677.0	674.5	672.0	672.5	673.0	673.0	55°	3190.2	3075.7	2851.2	2687.6	2669.1	2769.4
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	3455.6	3356.8	3173.1	2959.7	2967.2	3064.6
689.0	687.5	686.0	688.5	691.0	692.0	59°	3593.2	3510.7	3340.4	3123.3	3139.7	3273.5
692.0	690.5	689.0	689.5	690.0	690.0	60°	3642.3	3573.1	3411.0	3228.1	3249.0	3388.0
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	3638.5	3593.9	3476.5	3390.2	3496.5	3598.4
699.0	696.5	694.0	694.5	695.0	696.0	65°	3291.3	3223.7	3210.3	3361.2	3566.4	3664.6
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	2617.8	2649.7	2776.9	3036.3	3380.6	3523.3
						70°	1944.2	2000.7	2170.2	2495.8	2968.7	3215.5
						72.5°	1429.7	1486.2	1642.3	1999.2	2442.3	2660.9
						75°	1121.9	1139.0	1251.3	1531.5	1924.8	2104.0
						77.5°	1036.4	985.1	939.0	1089.2	1298.1	1452.0
						80°	965.0	867.6	759.1	804.4	855.0	1018.6
						82.5°	749.4	684.7	600.0	658.0	681.8	687.0
						85°	438.6	390.3	494.4	700.3	692.9	606.7
						87.5°	154.6	200.7	226.0	388.1	469.1	405.9
						90°	8.0	10.2	14.7	14.9	18.2	9.7
						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°
1459.4	1459.4	1459.4	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
1533.0	1512.2	1510.7	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
1480.2	1433.4	1418.5	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
1354.6	1300.3	1289.2	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
1249.0	1188.8	1178.4	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
1194.8	1137.5	1124.9	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
1215.6	1152.4	1145.7	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
1293.6	1226.7	1229.7	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
1427.5	1384.3	1373.9	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
1602.9	1556.1	1542.7	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
1752.4	1728.6	1719.6	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
1860.2	1871.3	1862.4	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
1946.4	1983.6	1979.1	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
2034.9	2107.0	2110.0	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
2100.3	2227.4	2253.5	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
2184.3	2354.6	2381.3	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
2248.2	2448.2	2481.0	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
2310.7	2525.6	2561.3	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
2362.0	2602.1	2638.6	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
2420.0	2676.5	2712.2	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
2524.1	2793.2	2835.6	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
2747.9	3009.6	3069.8	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
3071.3	3308.4	3356.0	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
3362.7	3511.4	3524.0	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
3482.4	3567.2	3563.4	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
3570.1	3580.5	3559.7	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
3617.7	3518.8	3483.2	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
3493.6	3356.0	3309.2	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
3135.2	3062.3	3008.8	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
2666.8	2482.4	2447.5								
2021.5	1778.4	1726.3								
1412.6	1121.2	1050.5								
928.6	719.7	692.9								
602.2	478.1	469.9								
420.1	313.7	289.2								
258.0	104.8	100.4								
80.3	48.3	43.1								
7.2	8.0	8.0								
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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