

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: P227270

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227270
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-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCUELED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, WITH
UPLIGHT GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6295.1 lumens
Efficiency: N/A
Efficacy: 104.6 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

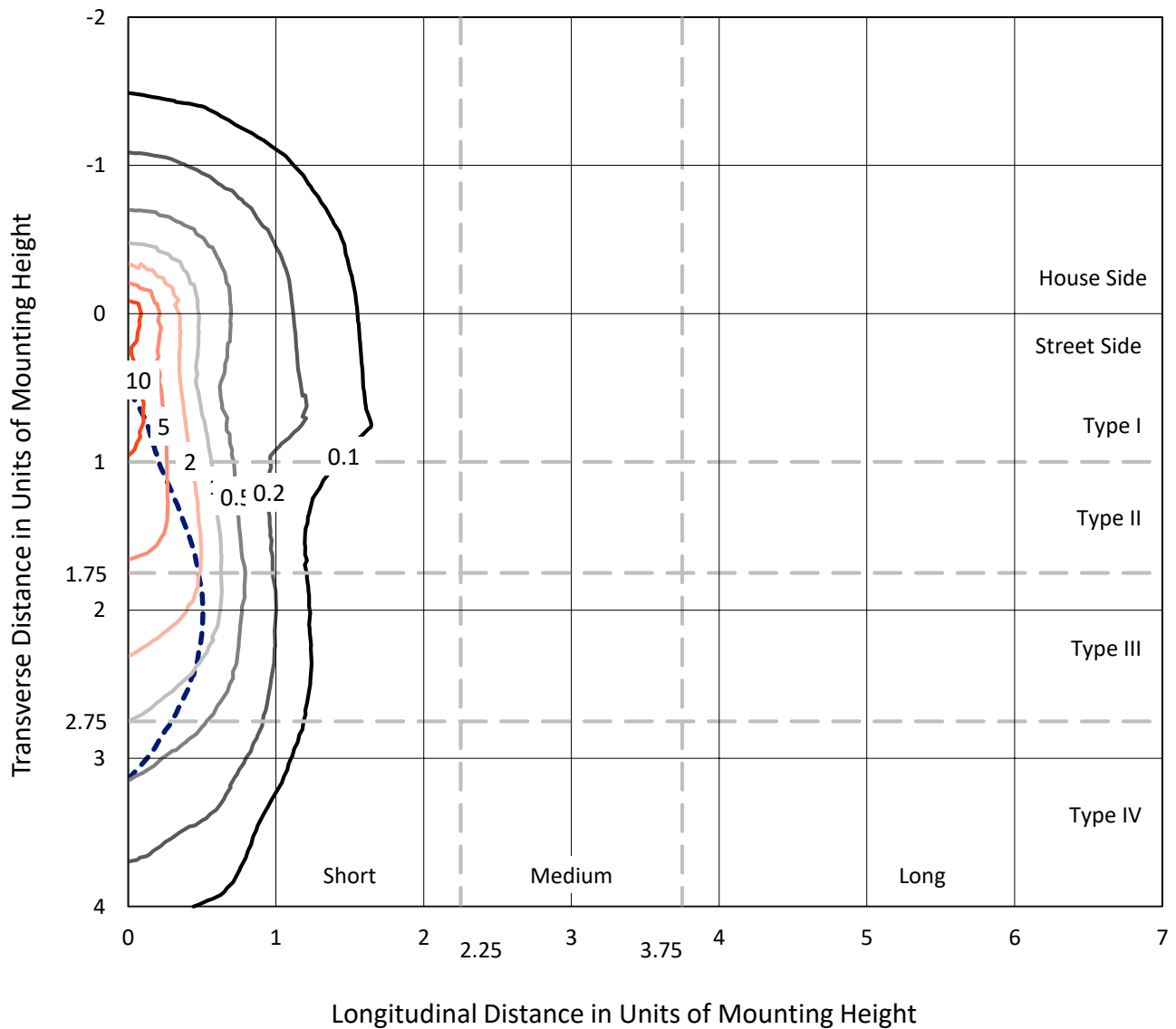
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

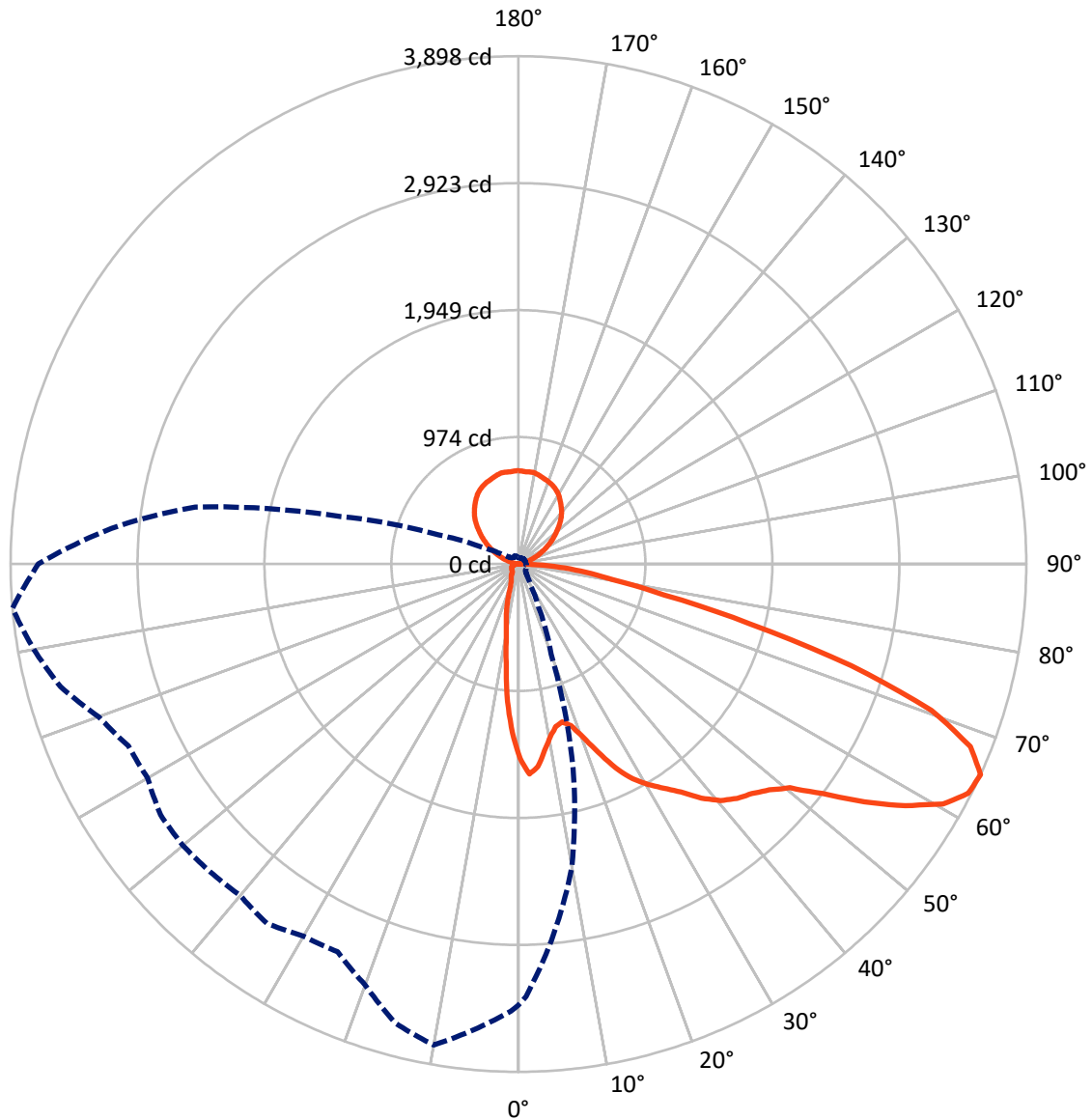
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 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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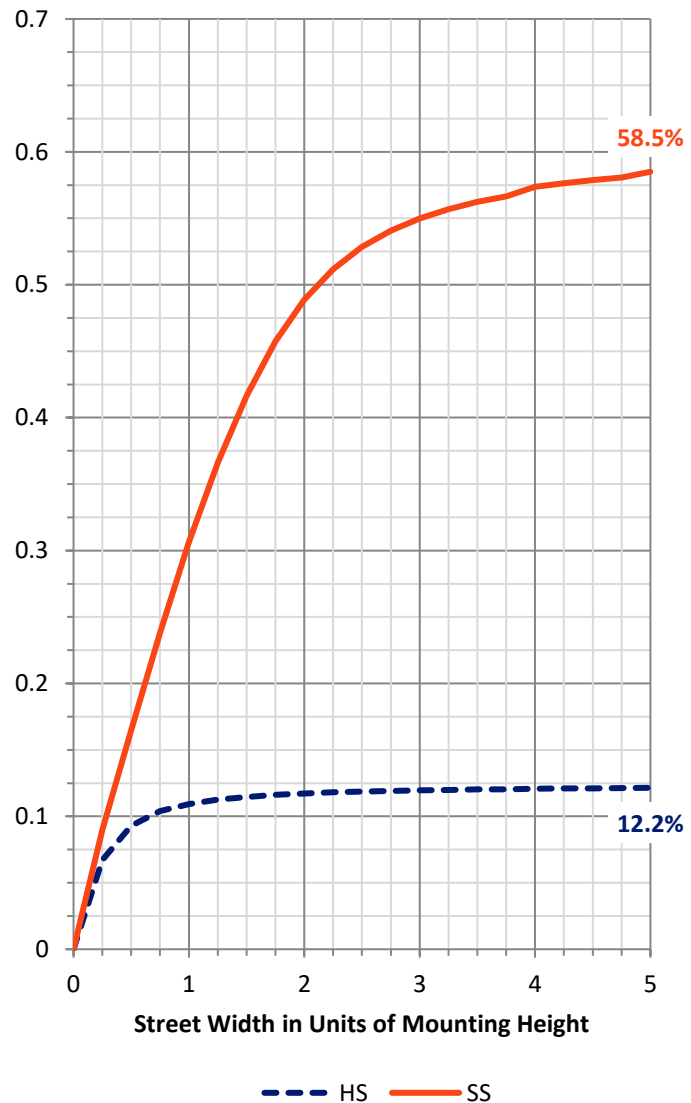
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	775.7	887.5	1663.2
	% Fixture	12.3	14.1	26.4
Street Side	Lumens	3744.3	887.7	4631.9
	% Fixture	59.5	14.1	73.6
Total	Lumens	4519.9	1775.2	6295.1
	% Fixture	71.8	28.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	1.8
10°-20°	212.8	3.4
20°-30°	303.5	4.8
30°-40°	440.2	7.0
40°-50°	629.8	10.0
50°-60°	967.0	15.4
60°-70°	1119.2	17.8
70°-80°	571.0	9.1
80°-90°	165.8	2.6
90°-100°	9.7	0.2
100°-110°	58.7	0.9
110°-120°	169.9	2.7
120°-130°	279.4	4.4
130°-140°	344.6	5.5
140°-150°	352.5	5.6
150°-160°	297.0	4.7
160°-170°	195.5	3.1
170°-180°	67.8	1.1
0°-90°	4519.9	71.8
0°-180°	6295.1	100.0



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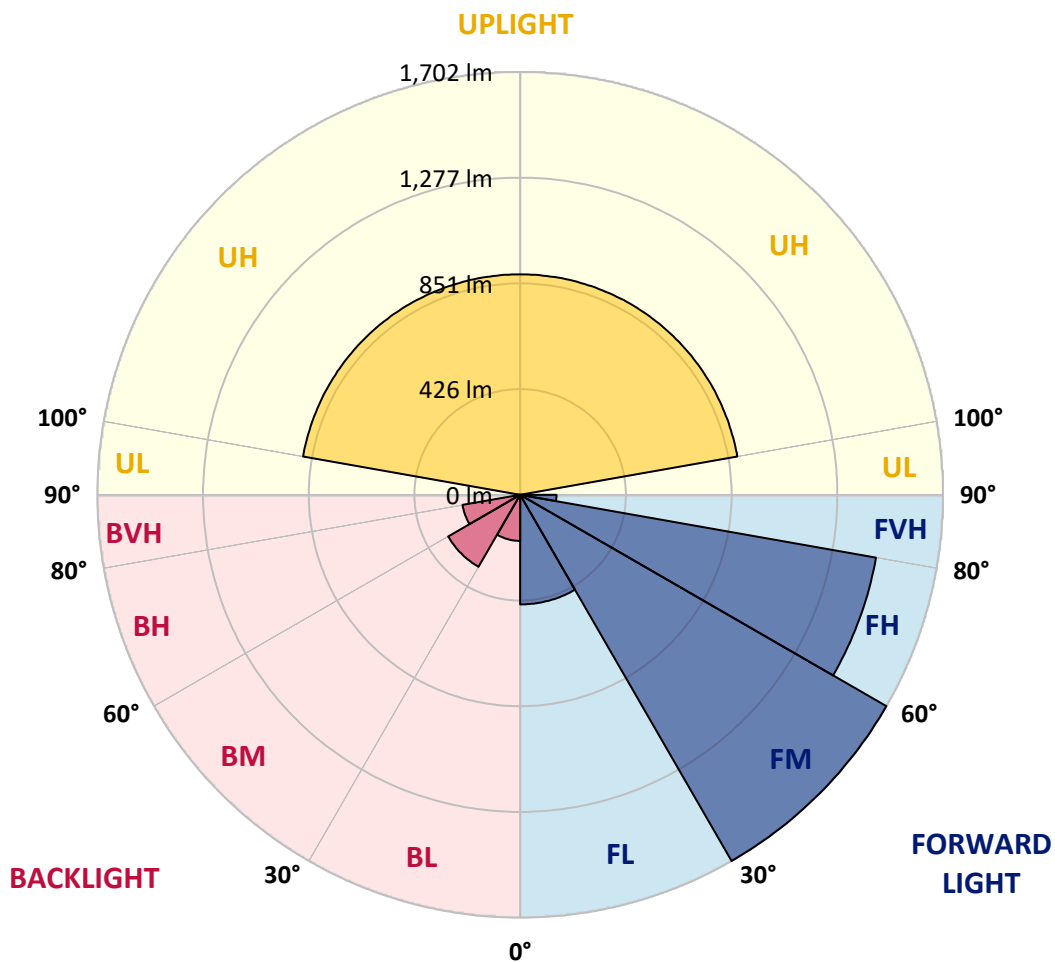
CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	441.3	7.0			
FM	(30°-60°)	1702.3	27.0			
FH	(60°-80°)	1454.5	23.1			G1/1800
FVH	(80°-90°)	146.2	2.3			G2/225
BL	(0°-30°)	185.6	2.9	B1/500		
BM	(30°-60°)	334.7	5.3	B1/1000		
BH	(60°-80°)	235.8	3.7	B1/500		G1/500
BVH	(80°-90°)	19.7	0.3			G1/100
UL	(90°-100°)	9.7	0.2		U1/10	
UH	(100°-180°)	887.5	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°	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9
2.5°	1545.4	1536.3	1524.9	1505.1	1487.6	1462.5	1456.4	1425.3	1405.4	1410.0	1374.2
5°	1451.1	1445.7	1417.6	1373.5	1344.7	1287.6	1254.9	1238.2	1191.0	1184.9	1172.0
7.5°	1318.8	1302.8	1257.2	1202.4	1153.0	1111.1	1058.7	1018.3	982.6	960.6	921.8
10°	1205.4	1188.7	1139.3	1072.4	1013.0	954.5	911.9	859.4	808.4	768.8	737.8
12.5°	1150.7	1132.4	1074.6	997.1	930.9	857.8	797.8	746.0	717.9	698.2	672.3
15°	1172.0	1145.4	1076.1	983.4	901.2	823.7	759.7	704.3	670.7	640.4	610.0
17.5°	1257.9	1225.2	1146.1	1034.3	920.2	819.9	728.5	665.4	612.2	566.6	525.5
20°	1405.4	1381.1	1266.3	1109.6	961.3	822.1	701.9	619.1	554.4	496.6	441.9
22.5°	1578.1	1541.6	1429.1	1211.5	1013.7	835.9	685.3	580.3	503.5	425.9	366.6
25°	1759.1	1730.9	1581.9	1348.5	1094.5	864.0	672.3	546.1	443.3	357.4	292.1
27.5°	1905.1	1880.1	1732.5	1480.0	1168.2	888.3	653.3	513.3	395.5	292.1	219.8
30°	2024.5	2003.2	1848.9	1588.0	1257.9	896.6	626.7	475.4	342.3	235.8	181.8
32.5°	2158.4	2134.8	1960.7	1663.3	1298.2	889.0	596.3	439.6	299.6	208.4	155.9
35°	2305.2	2277.8	2085.4	1744.6	1331.7	862.4	570.4	413.7	279.2	189.3	138.4
37.5°	2436.0	2418.5	2197.9	1825.3	1369.7	818.4	545.3	385.6	265.5	175.6	124.7
40°	2537.9	2533.3	2322.7	1892.3	1399.4	786.3	524.8	363.6	248.0	170.3	120.2
42.5°	2620.1	2618.5	2424.6	1952.3	1407.0	758.2	508.8	343.7	232.0	157.4	122.4
45°	2699.2	2698.3	2523.4	2036.0	1412.3	759.7	496.6	331.6	218.3	149.0	115.6
47.5°	2774.4	2785.8	2626.8	2152.3	1468.5	785.6	492.0	320.2	207.7	139.9	109.6
50°	2900.7	2889.2	2790.4	2309.7	1559.1	835.9	484.5	310.3	197.7	131.6	103.4
52.5°	3140.3	3127.3	3039.1	2520.4	1658.0	887.5	474.5	296.7	186.3	122.4	96.6
55°	3433.0	3450.5	3328.1	2776.7	1792.6	930.9	463.9	278.3	171.1	111.8	92.1
57.5°	3604.9	3590.5	3450.5	2924.2	1875.5	953.0	457.1	257.1	147.5	102.7	87.5
59°	3645.2	3620.9	3430.0	2949.4	1897.6	942.3	453.3	236.5	135.3	98.1	85.2
60°	3641.4	3611.7	3397.3	2933.4	1903.6	929.4	447.2	224.3	128.5	95.9	84.4
62.5°	3563.1	3516.7	3211.8	2740.2	1818.4	864.7	422.1	195.5	119.4	92.8	79.9
65°	3385.1	3319.7	2899.9	2363.0	1623.0	736.2	365.1	184.8	121.7	91.2	76.8
67.5°	3077.9	3025.4	2499.1	1955.4	1293.6	594.7	315.6	180.2	124.7	92.8	72.2
70°	2503.7	2458.8	1950.1	1464.0	968.9	473.0	286.7	178.0	122.4	89.0	68.4
72.5°	1765.9	1688.4	1296.0	1025.2	614.5	380.2	248.7	168.1	119.4	85.9	62.4
75°	1074.6	1089.0	823.7	746.9	387.9	260.9	195.5	141.5	105.7	76.8	56.3
77.5°	708.8	708.1	607.6	527.0	197.0	162.0	138.4	108.7	82.9	63.1	48.7
80°	480.7	486.0	441.1	359.8	109.6	97.4	90.5	79.1	60.9	47.9	40.3
82.5°	295.8	296.7	341.5	269.2	73.0	61.6	57.8	53.2	43.4	37.2	31.2
85°	102.7	105.0	119.4	190.2	49.4	40.3	40.3	37.2	32.7	25.1	20.6
87.5°	44.1	43.4	51.8	51.8	24.3	20.6	19.0	19.0	18.2	13.7	11.5
90°	8.2	7.4	7.4	9.2	10.9	13.0	12.8	13.5	13.5	12.3	10.2
92.5°	4.1	4.1	4.1	4.6	5.1	5.6	6.1	6.1	6.1	6.1	6.1
95°	5.1	5.1	5.1	5.6	6.1	6.6	7.2	7.2	7.2	7.2	7.2
97.5°	7.2	7.2	7.2	7.7	8.2	8.2	8.2	8.7	9.2	9.2	9.2
100°	8.2	8.2	8.2	8.7	9.2	9.7	10.2	11.3	12.3	16.9	21.5
102.5°	11.3	11.3	11.3	12.3	13.3	15.9	18.4	23.0	27.6	34.3	40.9
105°	21.5	21.7	22.5	25.1	27.6	32.2	36.8	43.0	49.1	56.8	64.4
107.5°	41.9	42.1	43.0	46.5	50.1	54.7	59.3	67.0	74.7	82.3	90.0



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

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	67.5	67.9	69.6	72.6	75.7	82.3	89.0	96.7	104.3	110.5	116.6
112.5°	101.3	101.3	101.3	104.9	108.4	116.1	123.8	130.4	137.1	141.7	146.3
115°	143.2	143.0	142.2	146.3	150.4	156.5	162.6	167.3	171.9	174.9	178.0
117.5°	188.2	188.2	188.2	190.8	193.3	197.4	201.5	204.1	206.6	208.2	209.7
120°	230.2	229.8	228.1	229.7	231.2	234.8	238.3	240.4	242.4	245.5	248.6
122.5°	269.0	268.4	266.0	266.5	267.0	270.1	273.1	275.2	277.2	280.3	283.4
125°	304.8	304.0	300.7	301.8	302.8	304.3	305.9	308.9	312.0	314.6	317.1
127.5°	337.6	337.4	336.6	336.6	336.6	338.6	340.6	343.7	346.8	347.3	347.8
130°	371.3	370.9	369.3	369.8	370.3	372.4	374.4	376.4	378.5	379.5	380.5
132.5°	405.1	404.7	403.0	402.5	402.0	406.1	410.2	411.7	413.3	413.8	414.3
135°	438.8	438.2	435.8	435.8	435.8	438.8	441.9	443.4	445.0	446.0	447.0
137.5°	470.6	469.9	467.5	468.5	469.5	470.0	470.6	472.6	474.6	476.7	478.7
140°	499.2	498.6	496.1	497.2	498.2	499.2	500.2	501.2	502.3	505.3	508.4
142.5°	529.9	529.3	526.8	527.8	528.9	529.4	529.9	531.4	533.0	535.0	537.0
145°	562.6	561.8	558.5	557.5	556.5	558.0	559.6	561.1	562.6	563.1	563.6
147.5°	588.2	587.6	585.1	584.6	584.1	585.6	587.2	587.2	587.2	587.7	588.2
150°	608.7	608.0	605.6	606.1	606.6	606.6	606.6	606.6	606.6	606.6	606.6
152.5°	625.0	624.4	622.0	622.0	622.0	622.5	623.0	623.5	624.0	624.0	624.0
155°	643.4	642.6	639.3	639.3	639.3	640.4	641.4	642.9	644.5	643.4	642.4
157.5°	660.8	660.2	657.8	657.8	657.8	658.3	658.8	659.8	660.8	660.3	659.8
160°	678.2	677.6	675.1	674.6	674.1	672.6	671.1	670.5	670.0	670.0	670.0
162.5°	688.4	687.6	684.4	684.4	684.4	682.3	680.3	678.2	676.2	677.2	678.2
165°	696.6	696.0	693.6	692.5	691.5	691.5	691.5	690.0	688.4	688.4	688.4
167.5°	705.8	705.2	702.8	701.2	699.7	700.7	701.7	702.8	703.8	702.3	700.7
170°	714.0	713.4	711.0	709.4	707.9	707.9	707.9	708.4	708.9	707.9	706.9
172.5°	715.0	714.6	713.0	712.0	711.0	709.9	708.9	707.4	705.8	705.8	705.8
175°	716.1	715.7	714.0	713.5	713.0	712.0	711.0	708.9	706.9	706.3	705.8
177.5°	723.2	722.8	721.2	718.6	716.1	715.6	715.0	714.0	713.0	712.0	711.0
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9
2.5°	1363.6	1355.3	1331.7	1325.6	1333.2	1318.0	1314.2	1310.4	1282.3	1296.7	1280.0
5°	1140.1	1137.7	1089.9	1099.8	1089.9	1073.1	1066.2	1082.3	1054.0	1060.2	1064.0
7.5°	876.2	867.1	835.0	813.8	800.9	789.4	775.0	751.4	769.7	765.9	794.7
10°	711.1	691.3	671.6	641.9	625.1	609.2	592.5	583.3	562.0	559.8	549.8
12.5°	651.8	623.6	598.5	572.6	555.2	523.2	496.6	479.9	466.2	444.9	428.9
15°	572.6	549.1	516.4	491.3	463.9	435.1	409.2	387.9	378.0	358.2	349.1
17.5°	492.9	457.1	417.6	392.4	354.5	324.8	303.4	289.8	275.3	263.1	252.5
20°	397.0	350.6	308.0	276.1	246.4	217.5	207.7	190.9	184.8	180.2	184.0
22.5°	302.0	254.0	209.9	185.6	169.6	162.0	153.6	150.6	148.3	147.5	149.0
25°	221.3	181.0	159.7	150.6	144.5	139.9	136.9	134.6	133.1	132.4	133.1
27.5°	171.1	149.9	139.2	133.1	128.5	125.5	124.0	121.7	120.9	120.2	120.9
30°	148.3	136.9	129.3	123.2	117.8	112.5	110.3	109.6	110.3	111.0	110.3
32.5°	129.3	120.9	112.5	107.2	103.4	100.4	100.4	98.9	98.9	101.2	101.9
35°	117.1	108.7	102.7	95.9	91.2	88.2	85.9	84.4	85.2	85.2	87.5
37.5°	107.2	101.2	95.9	89.7	85.2	82.1	80.6	79.1	78.4	77.5	77.5
40°	100.4	96.6	92.1	85.9	81.4	78.4	76.8	75.3	74.6	73.8	73.8
42.5°	100.4	92.8	89.7	84.4	79.1	76.0	73.8	72.2	70.7	70.7	70.7
45°	110.3	95.0	89.7	83.7	78.4	74.6	72.2	70.0	68.4	68.4	67.7
47.5°	107.2	106.5	91.2	83.7	79.1	74.6	71.5	69.3	67.7	66.9	66.2
50°	101.9	111.0	101.9	85.9	79.1	73.8	70.7	68.4	66.2	65.4	65.4
52.5°	98.9	103.4	105.7	89.0	79.9	73.8	70.0	67.7	66.2	64.7	63.9
55°	91.2	97.4	101.2	87.5	79.9	72.2	68.4	66.2	63.9	63.1	62.4
57.5°	83.7	88.2	97.4	87.5	77.5	71.5	66.9	63.9	62.4	61.6	60.9
59°	81.4	81.4	86.7	89.7	76.0	70.7	66.2	63.1	61.6	60.9	59.3
60°	79.1	79.1	82.1	92.1	75.3	70.0	65.4	62.4	60.0	60.0	59.3
62.5°	76.0	73.8	75.3	85.9	73.0	68.4	63.9	60.9	58.5	58.5	57.8
65°	72.2	69.3	69.3	71.5	68.4	65.4	62.4	59.3	56.3	56.3	57.1
67.5°	68.4	65.4	64.7	64.7	63.1	62.4	59.3	56.3	54.7	54.7	54.7
70°	63.1	60.9	60.0	58.5	58.5	57.8	55.5	53.2	51.8	52.5	51.8
72.5°	57.1	55.5	54.0	54.0	53.2	52.5	50.2	48.7	47.9	48.7	48.7
75°	50.9	48.7	48.7	47.2	47.2	46.4	44.1	43.4	42.6	43.4	44.1
77.5°	43.4	41.8	41.0	41.0	41.0	41.0	38.1	37.2	37.2	38.8	38.8
80°	35.7	35.0	34.3	34.3	34.3	33.5	31.9	31.2	31.2	31.9	32.7
82.5°	27.4	25.9	25.9	26.6	27.4	27.4	25.1	23.5	23.5	25.1	26.6
85°	18.2	18.2	18.2	19.0	19.0	19.7	18.2	16.0	16.8	17.5	19.7
87.5°	9.9	10.6	9.9	9.1	10.6	9.9	9.9	9.1	9.9	10.6	11.5
90°	10.2	10.2	10.4	10.7	9.9	10.7	9.7	9.4	7.9	7.9	9.7
92.5°	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.2	7.7	8.2	7.7	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	10.7	12.3	11.3	10.2	9.7	9.2	8.7	8.2	8.2	8.2	8.7
100°	25.6	29.7	28.1	26.6	25.1	23.5	21.5	19.4	19.4	19.4	21.5
102.5°	46.0	51.1	49.6	48.1	45.5	43.0	41.4	39.9	38.9	39.9	41.4
105°	69.0	73.7	72.6	71.6	69.0	66.5	64.4	62.4	62.4	62.4	64.4
107.5°	93.6	97.2	96.7	96.2	94.1	92.1	90.5	89.0	88.0	89.0	90.5



REPORT NUMBER: P227270

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	119.7	122.8	123.3	123.8	122.8	121.7	120.2	118.7	119.7	118.7	120.2
112.5°	148.8	151.4	152.4	153.4	152.9	152.4	151.4	150.4	150.4	150.4	151.4
115°	180.6	183.1	184.6	186.2	184.6	183.1	182.1	181.1	182.1	181.1	182.1
117.5°	212.8	215.8	217.9	219.9	217.4	214.8	213.8	212.8	213.8	212.8	213.8
120°	250.1	251.6	253.7	255.7	253.2	250.6	249.6	248.6	248.6	248.6	249.6
122.5°	284.4	285.4	287.4	289.5	286.9	284.4	283.4	282.3	283.4	282.3	283.4
125°	318.6	320.2	321.2	322.2	319.7	317.1	317.1	317.1	317.1	317.1	317.1
127.5°	350.4	352.9	353.4	353.9	353.9	353.9	353.4	352.9	355.0	352.9	353.4
130°	383.1	385.7	387.7	389.7	389.7	389.7	388.7	387.7	388.7	387.7	388.7
132.5°	417.4	420.4	423.0	425.5	424.5	423.5	423.5	423.5	424.5	423.5	423.5
135°	450.1	453.2	455.7	458.3	457.8	457.3	458.8	460.3	461.4	460.3	458.8
137.5°	481.3	483.9	484.9	485.9	486.4	486.9	489.5	492.0	493.1	492.0	489.5
140°	509.9	511.5	512.5	513.5	514.5	515.6	518.1	520.7	522.7	520.7	518.1
142.5°	538.1	539.1	542.2	545.2	545.2	545.2	545.7	546.3	548.3	546.3	545.7
145°	566.2	568.8	571.8	574.9	574.4	573.9	572.3	570.8	572.9	570.8	572.3
147.5°	590.8	593.3	595.9	598.4	598.9	599.4	597.9	596.4	598.4	596.4	597.9
150°	608.7	610.7	612.2	613.8	615.3	616.8	618.4	619.9	624.0	619.9	618.4
152.5°	624.5	625.0	626.6	628.1	630.1	632.2	634.7	637.3	642.4	637.3	634.7
155°	641.4	640.4	642.9	645.5	648.0	650.6	651.6	652.6	655.7	652.6	651.6
157.5°	659.3	658.8	660.8	662.9	663.9	664.9	664.9	664.9	670.0	664.9	664.9
160°	671.6	673.1	676.2	679.2	677.7	676.2	675.7	675.1	681.3	675.1	675.7
162.5°	680.3	682.3	684.4	686.4	685.9	685.4	684.4	683.3	689.5	683.3	684.4
165°	687.9	687.4	690.0	692.5	694.1	695.6	694.6	693.6	697.7	693.6	694.6
167.5°	697.1	693.6	696.6	699.7	701.7	703.8	703.8	703.8	709.9	703.8	703.8
170°	704.3	701.7	703.3	704.8	707.4	709.9	711.0	712.0	717.1	712.0	711.0
172.5°	705.3	704.8	706.3	707.9	708.9	709.9	711.0	712.0	717.1	712.0	711.0
175°	705.8	705.8	708.4	711.0	711.5	712.0	711.0	709.9	715.0	709.9	711.0
177.5°	710.4	709.9	712.5	715.0	716.1	717.1	715.6	714.0	718.1	714.0	715.6
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



REPORT NUMBER: P227270

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

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9
2.5°	1295.2	1282.3	1275.4	1302.0	1299.8	1276.9	1276.9	1292.9	1293.6	1280.0	1296.0
5°	1068.6	1055.6	1067.8	1057.1	1063.3	1062.4	1071.5	1054.9	1061.7	1055.6	1041.2
7.5°	792.5	818.4	832.1	814.6	836.6	848.0	832.1	848.0	822.9	802.4	822.1
10°	545.3	574.2	568.9	597.0	607.6	613.8	625.1	610.7	593.2	587.9	573.5
12.5°	422.9	416.8	414.5	425.9	432.7	422.9	431.2	422.1	413.0	397.0	396.2
15°	330.8	320.9	314.1	301.2	296.7	298.9	302.7	302.7	284.5	285.2	292.1
17.5°	250.9	248.7	243.4	232.7	225.9	228.1	227.4	223.6	221.3	222.8	231.2
20°	188.6	186.3	189.3	192.4	190.2	190.9	187.8	184.0	182.5	184.0	185.6
22.5°	149.0	152.1	155.9	160.5	161.2	165.0	164.3	165.0	162.0	160.5	156.7
25°	136.2	137.7	135.3	136.2	136.2	139.9	139.2	139.2	136.2	135.3	136.2
27.5°	120.2	119.4	119.4	120.9	120.9	123.2	124.7	123.2	120.2	119.4	120.2
30°	111.0	110.3	109.6	110.3	109.6	110.3	111.8	111.8	110.3	108.0	108.7
32.5°	101.9	101.9	101.2	101.9	101.2	101.2	102.7	100.4	100.4	99.6	99.6
35°	89.7	91.2	92.8	93.5	93.5	93.5	95.0	92.8	92.1	91.2	91.2
37.5°	77.5	79.1	83.7	85.9	86.7	88.2	89.0	87.5	85.9	84.4	82.9
40°	73.8	73.8	75.3	78.4	81.4	82.1	83.7	81.4	80.6	78.4	76.0
42.5°	70.7	71.5	71.5	72.2	73.0	74.6	76.8	74.6	73.0	71.5	69.3
45°	68.4	68.4	68.4	68.4	67.7	67.7	68.4	66.9	66.2	65.4	65.4
47.5°	66.9	66.2	65.4	64.7	63.9	63.1	63.1	61.6	61.6	61.6	61.6
50°	65.4	63.9	63.1	62.4	60.9	60.9	60.9	59.3	58.5	58.5	59.3
52.5°	63.1	62.4	61.6	60.9	60.0	59.3	59.3	57.8	57.1	57.1	57.1
55°	62.4	61.6	60.0	59.3	58.5	59.3	58.5	57.8	56.3	56.3	56.3
57.5°	60.0	60.9	60.0	58.5	58.5	58.5	58.5	57.1	56.3	54.7	55.5
59°	59.3	60.0	59.3	58.5	57.8	58.5	58.5	56.3	55.5	54.7	54.7
60°	58.5	59.3	58.5	57.8	57.8	58.5	57.8	57.1	55.5	53.2	54.0
62.5°	57.8	57.8	57.1	57.1	56.3	57.1	56.3	54.7	53.2	51.8	50.9
65°	56.3	56.3	55.5	55.5	54.7	54.7	54.7	53.2	51.8	50.2	50.2
67.5°	55.5	54.7	54.0	54.0	53.2	53.2	53.2	51.8	49.4	48.7	47.9
70°	52.5	51.8	51.8	50.9	50.2	50.9	51.8	49.4	47.2	45.6	44.9
72.5°	49.4	48.7	48.7	47.9	47.9	48.7	49.4	47.2	44.1	42.6	41.8
75°	44.9	44.1	44.1	44.1	44.1	45.6	45.6	43.4	41.0	38.8	37.2
77.5°	38.8	39.6	39.6	39.6	39.6	41.0	41.0	39.6	37.2	35.7	33.5
80°	33.5	33.5	34.3	34.3	35.0	35.0	34.3	33.5	32.7	31.2	28.1
82.5°	28.1	28.1	28.1	28.1	28.1	27.4	25.9	27.4	27.4	25.9	23.5
85°	22.1	22.1	22.1	22.8	22.8	20.6	18.2	18.2	20.6	19.7	18.2
87.5°	12.9	12.9	13.7	16.0	14.4	13.7	11.5	12.2	11.5	12.9	10.6
90°	12.3	11.5	11.5	8.9	8.7	7.2	7.2	7.7	8.2	8.2	8.2
92.5°	6.1	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.7	8.2	7.7	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.2	9.7	10.2	11.3	12.3	10.7	9.2	9.2	9.2	8.7	8.2
100°	23.5	25.1	26.6	28.1	29.7	25.6	21.5	16.9	12.3	11.3	10.2
102.5°	43.0	45.5	48.1	49.6	51.1	46.0	40.9	34.3	27.6	23.0	18.4
105°	66.5	69.0	71.6	72.6	73.7	69.0	64.4	56.8	49.1	43.0	36.8
107.5°	92.1	94.1	96.2	96.7	97.2	93.6	90.0	82.3	74.7	67.0	59.3



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	121.7	122.8	123.8	123.3	122.8	119.7	116.6	110.5	104.3	96.7	89.0	0°
112.5°	152.4	152.9	153.4	152.4	151.4	148.8	146.3	141.7	137.1	130.4	123.8	2.5°
115°	183.1	184.6	186.2	184.6	183.1	180.6	178.0	174.9	171.9	167.3	162.6	5°
117.5°	214.8	217.4	219.9	217.9	215.8	212.8	209.7	208.2	206.6	204.1	201.5	7.5°
120°	250.6	253.2	255.7	253.7	251.6	250.1	248.6	245.5	242.4	240.4	238.3	10°
122.5°	284.4	286.9	289.5	287.4	285.4	284.4	283.4	280.3	277.2	275.2	273.1	12.5°
125°	317.1	319.7	322.2	321.2	320.2	318.6	317.1	314.6	312.0	308.9	305.9	15°
127.5°	353.9	353.9	353.9	353.4	352.9	350.4	347.8	347.3	346.8	343.7	340.6	17.5°
130°	389.7	389.7	389.7	387.7	385.7	383.1	380.5	379.5	378.5	376.4	374.4	20°
132.5°	423.5	424.5	425.5	423.0	420.4	417.4	414.3	413.8	413.3	411.7	410.2	22.5°
135°	457.3	457.8	458.3	455.7	453.2	450.1	447.0	446.0	445.0	443.4	441.9	25°
137.5°	486.9	486.4	485.9	484.9	483.9	481.3	478.7	476.7	474.6	472.6	470.6	27.5°
140°	515.6	514.5	513.5	512.5	511.5	509.9	508.4	505.3	502.3	501.2	500.2	30°
142.5°	545.2	545.2	545.2	542.2	539.1	538.1	537.0	535.0	533.0	531.4	529.9	32.5°
145°	573.9	574.4	574.9	571.8	568.8	566.2	563.6	563.1	562.6	561.1	559.6	35°
147.5°	599.4	598.9	598.4	595.9	593.3	590.8	588.2	587.7	587.2	587.2	587.2	37.5°
150°	616.8	615.3	613.8	612.2	610.7	608.7	606.6	606.6	606.6	606.6	606.6	40°
152.5°	632.2	630.1	628.1	626.6	625.0	624.5	624.0	624.0	624.0	623.5	623.0	42.5°
155°	650.6	648.0	645.5	642.9	640.4	641.4	642.4	643.4	644.5	642.9	641.4	45°
157.5°	664.9	663.9	662.9	660.8	658.8	659.3	659.8	660.3	660.8	659.8	658.8	47.5°
160°	676.2	677.7	679.2	676.2	673.1	671.6	670.0	670.0	670.0	670.5	671.1	50°
162.5°	685.4	685.9	686.4	684.4	682.3	680.3	678.2	677.2	676.2	678.2	680.3	52.5°
165°	695.6	694.1	692.5	690.0	687.4	687.9	688.4	688.4	688.4	690.0	691.5	55°
167.5°	703.8	701.7	699.7	696.6	693.6	697.1	700.7	702.3	703.8	702.8	701.7	57.5°
170°	709.9	707.4	704.8	703.3	701.7	704.3	706.9	707.9	708.9	708.4	707.9	59°
172.5°	709.9	708.9	707.9	706.3	704.8	705.3	705.8	705.8	705.8	707.4	708.9	60°
175°	712.0	711.5	711.0	708.4	705.8	705.8	705.8	706.3	706.9	708.9	711.0	62.5°
177.5°	717.1	716.1	715.0	712.5	709.9	710.4	711.0	712.0	713.0	714.0	715.0	65°
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	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: P227270
 NUMBER: ISW-AF-800-LED-E1-SLR-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION:

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	110°	82.3
1297.5	1300.5	1307.3	1305.1	1330.1	1322.6	1340.1	1363.6	1385.7	1375.1	1378.1	112.5°	116.1
1067.0	1070.8	1042.0	1059.5	1085.2	1074.6	1070.8	1105.8	1097.4	1137.0	1104.3	115°	156.5
790.2	781.0	767.4	760.6	741.5	741.5	777.2	793.2	790.9	818.4	846.5	117.5°	197.4
555.2	544.5	527.8	523.2	542.3	551.4	567.3	583.3	604.7	635.8	654.1	120°	234.8
407.6	403.9	407.6	419.1	436.6	449.5	473.8	502.0	525.5	550.7	575.0	122.5°	270.1
308.0	315.6	325.5	333.1	346.8	371.1	384.1	415.2	436.6	458.6	486.7	125°	304.3
239.6	244.2	246.4	249.5	260.9	278.3	278.3	310.3	338.4	367.3	390.9	127.5°	338.6
182.5	182.5	174.9	179.5	181.0	179.5	188.6	206.8	225.2	244.2	281.4	130°	372.4
152.8	148.3	146.0	145.3	146.0	149.0	154.4	161.2	164.3	172.7	187.1	132.5°	406.1
135.3	134.6	132.4	132.4	133.9	134.6	139.9	146.0	147.5	149.9	155.2	135°	438.8
119.4	120.9	123.2	122.4	123.2	124.7	128.5	133.9	136.9	137.7	141.5	137.5°	470.0
108.0	109.6	110.3	112.5	112.5	113.3	116.4	121.7	124.0	127.8	131.6	140°	499.2
100.4	101.2	101.9	101.2	101.9	101.9	105.7	111.0	114.1	116.4	118.7	142.5°	529.4
92.1	91.2	91.2	91.2	89.0	88.2	89.7	95.0	95.9	98.1	103.4	145°	558.0
82.1	79.9	78.4	78.4	78.4	79.1	82.9	88.2	89.0	91.2	95.9	147.5°	585.6
73.0	72.2	72.2	73.0	73.8	75.3	78.4	83.7	84.4	86.7	90.5	150°	606.6
68.4	68.4	68.4	69.3	70.0	70.7	74.6	79.9	81.4	83.7	88.2	152.5°	622.5
65.4	66.2	65.4	65.4	66.2	67.7	71.5	77.5	79.9	82.1	86.7	155°	640.4
63.1	63.1	63.1	63.9	63.9	65.4	70.0	76.0	77.5	80.6	87.5	157.5°	658.3
60.0	61.6	60.9	61.6	62.4	63.9	68.4	74.6	76.8	81.4	89.0	160°	672.6
58.5	58.5	58.5	59.3	60.9	61.6	65.4	72.2	75.3	81.4	93.5	162.5°	682.3
57.8	56.3	56.3	57.1	58.5	60.0	63.9	70.7	74.6	80.6	92.8	165°	691.5
57.1	54.7	54.0	54.7	56.3	57.1	61.6	68.4	73.8	78.4	89.7	167.5°	700.7
54.7	53.2	52.5	53.2	54.7	56.3	60.0	66.9	70.7	76.8	85.9	170°	707.9
54.0	51.8	51.8	52.5	54.0	54.7	58.5	65.4	69.3	77.5	88.2	172.5°	709.9
50.9	50.2	50.2	50.9	50.9	52.5	57.1	63.9	66.9	79.1	73.8	175°	712.0
48.7	48.7	48.7	48.7	49.4	50.2	55.5	62.4	63.9	68.4	63.1	177.5°	715.6
47.2	47.2	47.2	47.2	47.2	48.7	53.2	60.0	60.9	60.0	57.8	180°	716.1
44.1	44.1	44.1	44.1	44.9	45.6	50.2	56.3	56.3	54.7	54.7		
41.8	41.0	41.0	41.0	41.0	41.8	46.4	52.5	51.8	50.9	50.9		
37.2	37.2	37.2	37.2	37.2	37.2	41.8	47.9	47.2	46.4	45.6		
32.7	32.7	33.5	32.7	31.9	31.2	35.7	42.6	42.6	41.8	41.0		
28.1	27.4	28.1	27.4	25.9	25.9	29.7	35.7	36.5	35.7	34.3		
22.8	22.1	22.1	22.1	19.0	19.0	22.8	28.9	28.9	28.1	26.6		
17.5	16.8	16.0	15.2	12.9	12.9	16.0	21.3	22.1	19.0	18.2		
9.1	9.1	9.1	6.9	6.0	5.3	8.4	12.9	12.9	10.6	9.1		
7.7	7.2	6.1	5.1	5.1	5.1	6.1	7.9	7.7	8.2	8.2		
5.6	5.1	4.6	4.1	4.1	4.1	4.6	5.1	5.6	6.1	6.1		
6.6	6.1	5.6	5.1	5.1	5.1	5.6	6.1	6.6	7.2	7.2		
8.2	8.2	7.7	7.2	7.2	7.2	7.7	8.2	8.2	8.2	8.7		
9.7	9.2	8.7	8.2	8.2	8.2	8.7	9.2	9.7	10.2	11.3		
15.9	13.3	12.3	11.3	11.3	11.3	12.3	13.3	15.9	18.4	23.0		
32.2	27.6	25.1	22.5	21.5	22.5	25.1	27.6	32.2	36.8	43.0		
54.7	50.1	46.5	43.0	41.9	43.0	46.5	50.1	54.7	59.3	67.0		

'227270
 ISW-AF-800-LED-E1-SLR-ULG

REPORT NUMBER: P227270
 CATALOG NUMBER: ISW-AF-800

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
75.7	72.6	69.6	67.5	69.6	72.6	75.7	82.3	89.0	96.7	0°	1492.9	1492.9
108.4	104.9	101.3	101.3	101.3	104.9	108.4	116.1	123.8	130.4	2.5°	1397.1	1403.9
150.4	146.3	142.2	143.2	142.2	146.3	150.4	156.5	162.6	167.3	5°	1128.6	1155.2
193.3	190.8	188.2	188.2	188.2	190.8	193.3	197.4	201.5	204.1	7.5°	853.3	889.0
231.2	229.7	228.1	230.2	228.1	229.7	231.2	234.8	238.3	240.4	10°	683.7	708.1
267.0	266.5	266.0	269.0	266.0	266.5	267.0	270.1	273.1	275.2	12.5°	600.1	635.0
302.8	301.8	300.7	304.8	300.7	301.8	302.8	304.3	305.9	308.9	15°	514.9	552.9
336.6	336.6	336.6	337.6	336.6	336.6	336.6	338.6	340.6	343.7	17.5°	422.1	468.5
370.3	369.8	369.3	371.3	369.3	369.8	370.3	372.4	374.4	376.4	20°	322.4	368.1
402.0	402.5	403.0	405.1	403.0	402.5	402.0	406.1	410.2	411.7	22.5°	226.7	265.5
435.8	435.8	435.8	438.8	435.8	435.8	435.8	438.8	441.9	443.4	25°	165.0	182.5
469.5	468.5	467.5	470.6	467.5	468.5	469.5	470.0	470.6	472.6	27.5°	146.8	153.6
498.2	497.2	496.1	499.2	496.1	497.2	498.2	499.2	500.2	501.2	30°	137.7	142.2
528.9	527.8	526.8	529.9	526.8	527.8	528.9	529.4	529.9	531.4	32.5°	124.0	128.5
556.5	557.5	558.5	562.6	558.5	557.5	556.5	558.0	559.6	561.1	35°	108.7	114.9
584.1	584.6	585.1	588.2	585.1	584.6	584.1	585.6	587.2	587.2	37.5°	101.2	105.7
606.6	606.1	605.6	608.7	605.6	606.1	606.6	606.6	606.6	606.6	40°	96.6	97.4
622.0	622.0	622.0	625.0	622.0	622.0	622.0	622.5	623.0	623.5	42.5°	92.8	92.8
639.3	639.3	639.3	643.4	639.3	639.3	639.3	640.4	641.4	642.9	45°	90.5	92.8
657.8	657.8	657.8	660.8	657.8	657.8	657.8	658.3	658.8	659.8	47.5°	92.1	101.9
674.1	674.6	675.1	678.2	675.1	674.6	674.1	672.6	671.1	670.5	50°	103.4	100.4
684.4	684.4	684.4	688.4	684.4	684.4	684.4	682.3	680.3	678.2	52.5°	105.7	94.3
691.5	692.5	693.6	696.6	693.6	692.5	691.5	691.5	691.5	690.0	55°	96.6	90.5
699.7	701.2	702.8	705.8	702.8	701.2	699.7	700.7	701.7	702.8	57.5°	86.7	79.1
707.9	709.4	711.0	714.0	711.0	709.4	707.9	707.9	707.9	708.4	59°	77.5	73.0
711.0	712.0	713.0	715.0	713.0	712.0	711.0	709.9	708.9	707.4	60°	72.2	70.7
713.0	713.5	714.0	716.1	714.0	713.5	713.0	712.0	711.0	708.9	62.5°	66.2	67.7
716.1	718.6	721.2	723.2	721.2	718.6	716.1	715.6	715.0	714.0	65°	61.6	64.7
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	59.3	61.6
										70°	55.5	57.1
										72.5°	51.8	52.5
										75°	46.4	47.2
										77.5°	41.0	41.0
										80°	33.5	33.5
										82.5°	25.9	25.1
										85°	16.8	16.0
										87.5°	7.6	6.0
										90°	8.2	7.7
										92.5°	6.1	6.1
										95°	7.2	7.2
										97.5°	9.2	9.2
										100°	12.3	16.9
										102.5°	27.6	34.3
										105°	49.1	56.8
										107.5°	74.7	82.3



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tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	110°	104.3	110.5	116.6
1438.2	1459.4	1476.2	1473.2	1508.9	1530.2	1533.2	1555.3	1576.6	112.5°	137.1	141.7	146.3
1176.5	1206.2	1235.1	1256.4	1312.7	1359.1	1394.8	1432.8	1477.8	115°	171.9	174.9	178.0
937.7	962.8	1010.0	1044.2	1103.6	1157.6	1210.0	1270.1	1321.0	117.5°	206.6	208.2	209.7
734.7	766.6	810.7	874.6	927.8	989.5	1055.6	1112.7	1197.9	120°	242.4	245.5	248.6
660.1	680.0	716.4	746.9	813.0	878.4	953.0	1031.2	1109.6	122.5°	277.2	280.3	283.4
583.3	618.3	652.5	696.6	754.4	825.9	906.5	990.9	1079.2	125°	312.0	314.6	317.1
508.8	555.2	592.5	640.4	705.0	795.5	900.5	1005.5	1108.9	127.5°	346.8	347.3	347.8
417.6	460.8	526.3	575.0	659.4	772.7	907.4	1052.6	1192.6	130°	378.5	379.5	380.5
328.6	374.9	449.5	521.7	614.5	760.6	934.7	1130.2	1317.3	132.5°	413.3	413.8	414.3
235.0	298.1	371.9	463.2	575.7	752.9	972.0	1226.0	1477.8	135°	445.0	446.0	447.0
175.6	219.8	309.5	409.2	532.3	739.3	1011.5	1315.0	1587.2	137.5°	474.6	476.7	478.7
156.7	187.8	246.4	351.4	479.2	712.6	1041.2	1399.4	1686.8	140°	502.3	505.3	508.4
136.9	161.2	207.7	296.7	431.2	671.6	1054.0	1444.2	1756.1	142.5°	533.0	535.0	537.0
120.2	143.0	190.2	275.3	406.9	625.1	1051.8	1489.1	1842.7	145°	562.6	563.1	563.6
109.6	129.3	182.5	270.0	387.9	582.6	1054.0	1561.3	1971.3	147.5°	587.2	587.7	588.2
101.2	124.0	176.5	258.6	378.7	558.9	1063.3	1625.3	2081.6	150°	606.6	606.6	606.6
101.2	122.4	161.2	242.6	374.2	561.3	1067.0	1674.7	2163.7	152.5°	624.0	624.0	624.0
106.5	114.9	149.9	233.4	377.3	578.0	1062.4	1724.9	2243.5	155°	644.5	643.4	642.4
101.2	107.2	142.2	232.0	377.3	590.1	1076.1	1787.3	2348.5	157.5°	660.8	660.3	659.8
95.9	99.6	139.9	229.7	369.6	601.6	1132.4	1903.6	2485.5	160°	670.0	670.0	670.0
89.0	93.5	136.9	225.9	361.2	616.0	1232.0	2099.1	2712.0	162.5°	676.2	677.2	678.2
80.6	89.7	132.4	219.8	355.9	641.9	1333.9	2296.8	2982.0	165°	688.4	688.4	688.4
77.5	85.9	121.7	205.3	350.6	670.0	1442.8	2486.2	3224.6	167.5°	703.8	702.3	700.7
75.3	82.9	112.5	194.7	346.1	683.7	1475.4	2558.4	3318.2	170°	708.9	707.9	706.9
73.8	81.4	107.2	185.6	340.7	684.5	1499.0	2585.8	3331.9	172.5°	705.8	705.8	705.8
71.5	78.4	96.6	166.5	324.0	683.7	1501.3	2603.3	3292.4	175°	706.9	706.3	705.8
67.7	75.3	97.4	156.7	293.6	651.8	1407.0	2518.9	3134.9	177.5°	713.0	712.0	711.0
64.7	73.0	102.7	159.0	261.7	569.7	1230.5	2256.5	2798.0	180°	716.1	716.1	716.1
60.0	71.5	107.2	164.3	252.5	473.0	930.9	1842.7	2343.2				
55.5	70.7	111.0	168.1	242.6	389.4	645.0	1306.6	1753.7				
50.2	64.7	101.2	143.0	200.8	282.9	415.2	854.9	1209.2				
43.4	51.8	73.8	100.4	147.5	197.7	245.6	516.4	790.9				
35.7	38.8	52.5	64.7	98.1	117.1	136.2	291.2	552.9				
26.6	27.4	35.7	41.0	55.5	64.7	81.4	178.7	448.0				
15.2	17.5	24.3	27.4	33.5	41.0	53.2	114.1	351.4				
6.0	7.6	14.4	16.0	18.2	22.8	29.7	66.2	109.6				
7.2	7.2	7.2	8.2	9.2	9.2	9.2	8.2	7.2				
6.1	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1				
7.2	7.2	7.2	7.7	8.2	7.7	7.2	7.2	7.2				
9.2	10.7	12.3	11.3	10.2	9.7	9.2	8.7	8.2				
21.5	25.6	29.7	28.1	26.6	25.1	23.5	21.5	19.4				
40.9	46.0	51.1	49.6	48.1	45.5	43.0	41.4	39.9				
64.4	69.0	73.7	72.6	71.6	69.0	66.5	64.4	62.4				
90.0	93.6	97.2	96.7	96.2	94.1	92.1	90.5	89.0				



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SLR-ULG

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
119.7	122.8	123.3	123.8	122.8	121.7	120.2	118.7	0°	1492.9	1492.9	1492.9	1492.9
148.8	151.4	152.4	153.4	152.9	152.4	151.4	150.4	2.5°	1597.8	1613.8	1627.5	1638.2
180.6	183.1	184.6	186.2	184.6	183.1	182.1	181.1	5°	1525.6	1562.9	1607.8	1645.8
212.8	215.8	217.9	219.9	217.4	214.8	213.8	212.8	7.5°	1397.1	1444.2	1517.2	1562.1
250.1	251.6	253.7	255.7	253.2	250.6	249.6	248.6	10°	1275.4	1344.7	1424.5	1489.1
284.4	285.4	287.4	289.5	286.9	284.4	283.4	282.3	12.5°	1192.6	1278.5	1354.5	1426.7
318.6	320.2	321.2	322.2	319.7	317.1	317.1	317.1	15°	1169.7	1257.2	1325.6	1391.7
350.4	352.9	353.4	353.9	353.9	353.9	353.4	352.9	17.5°	1215.4	1302.8	1361.3	1401.6
383.1	385.7	387.7	389.7	389.7	389.7	388.7	387.7	20°	1322.6	1416.1	1453.4	1450.3
417.4	420.4	423.0	425.5	424.5	423.5	423.5	423.5	22.5°	1469.4	1567.5	1567.5	1537.1
450.1	453.2	455.7	458.3	457.8	457.3	458.8	460.3	25°	1663.3	1734.0	1695.2	1637.4
481.3	483.9	484.9	485.9	486.4	486.9	489.5	492.0	27.5°	1800.9	1867.1	1799.4	1704.3
509.9	511.5	512.5	513.5	514.5	515.6	518.1	520.7	30°	1915.1	1963.7	1877.7	1763.0
538.1	539.1	542.2	545.2	545.2	545.2	545.7	546.3	32.5°	2015.4	2051.1	1937.9	1824.5
566.2	568.8	571.8	574.9	574.4	573.9	572.3	570.8	35°	2135.6	2148.5	2000.2	1879.3
590.8	593.3	595.9	598.4	598.9	599.4	597.9	596.4	37.5°	2268.7	2279.3	2090.0	1939.3
608.7	610.7	612.2	613.8	615.3	616.8	618.4	619.9	40°	2425.3	2387.3	2156.1	1994.9
624.5	625.0	626.6	628.1	630.1	632.2	634.7	637.3	42.5°	2521.9	2459.6	2204.0	2023.8
641.4	640.4	642.9	645.5	648.0	650.6	651.6	652.6	45°	2598.0	2512.8	2226.0	2040.5
659.3	658.8	660.8	662.9	663.9	664.9	664.9	664.9	47.5°	2691.5	2591.1	2264.9	2071.0
671.6	673.1	676.2	679.2	677.7	676.2	675.7	675.1	50°	2814.8	2699.9	2363.0	2156.9
680.3	682.3	684.4	686.4	685.9	685.4	684.4	683.3	52.5°	3067.2	2925.0	2539.4	2306.7
687.9	687.4	690.0	692.5	694.1	695.6	694.6	693.6	55°	3357.7	3223.1	2821.6	2553.9
697.1	693.6	696.6	699.7	701.7	703.8	703.8	703.8	57.5°	3590.5	3499.9	3073.4	2777.4
704.3	701.7	703.3	704.8	707.4	709.9	711.0	712.0	59°	3676.4	3637.6	3251.2	2966.9
705.3	704.8	706.3	707.9	708.9	709.9	711.0	712.0	60°	3708.4	3741.9	3345.6	3082.5
705.8	705.8	708.4	711.0	711.5	712.0	711.0	709.9	62.5°	3730.4	3875.7	3652.0	3427.7
710.4	709.9	712.5	715.0	716.1	717.1	715.6	714.0	65°	3684.8	3897.7	3776.0	3638.4
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	3486.3	3741.0	3717.5	3596.6
								70°	3080.1	3363.9	3446.0	3274.1
								72.5°	2317.3	2669.5	3117.4	2848.2
								75°	1509.7	1835.2	2661.8	2439.7
								77.5°	945.3	1145.4	1899.0	1708.9
								80°	628.9	736.2	1205.4	1097.4
								82.5°	473.0	521.7	829.0	779.6
								85°	249.5	317.9	645.0	817.5
								87.5°	93.5	104.2	485.2	730.9
								90°	7.2	7.2	8.9	9.2
								92.5°	6.1	6.1	6.1	6.1
								95°	7.2	7.2	7.2	7.2
								97.5°	8.2	8.2	8.7	9.2
								100°	19.4	19.4	21.5	23.5
								102.5°	38.9	39.9	41.4	43.0
								105°	62.4	62.4	64.4	66.5
								107.5°	88.0	89.0	90.5	92.1

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CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	110°	119.7	118.7	120.2	121.7	122.8
1647.4	1661.0	1669.4	1663.3	1673.1	1675.5	1664.9	112.5°	150.4	150.4	151.4	152.4	152.9
1677.7	1715.8	1743.1	1762.1	1769.8	1776.6	1773.6	115°	182.1	181.1	182.1	183.1	184.6
1621.5	1680.0	1730.9	1765.9	1778.1	1787.3	1778.9	117.5°	213.8	212.8	213.8	214.8	217.4
1559.1	1619.9	1667.8	1702.8	1702.1	1711.2	1695.2	120°	248.6	248.6	249.6	250.6	253.2
1500.6	1559.9	1602.5	1600.9	1590.3	1563.7	1559.1	122.5°	283.4	282.3	283.4	284.4	286.9
1454.1	1485.3	1496.0	1493.7	1463.2	1448.1	1445.7	125°	317.1	317.1	317.1	317.1	319.7
1431.3	1429.8	1405.4	1378.8	1350.0	1348.5	1328.6	127.5°	355.0	352.9	353.4	353.9	353.9
1435.1	1385.7	1340.8	1295.2	1264.0	1257.2	1259.5	130°	388.7	387.7	388.7	389.7	389.7
1483.1	1395.6	1311.1	1264.8	1228.3	1217.6	1222.2	132.5°	424.5	423.5	423.5	423.5	424.5
1543.1	1426.0	1321.0	1250.4	1220.7	1207.7	1210.0	135°	461.4	460.3	458.8	457.3	457.8
1583.4	1461.0	1353.8	1266.3	1226.0	1213.8	1221.4	137.5°	493.1	492.0	489.5	486.9	486.4
1635.2	1508.9	1397.9	1307.3	1247.3	1231.3	1236.6	140°	522.7	520.7	518.1	515.6	514.5
1686.1	1560.6	1460.3	1357.6	1284.5	1254.9	1263.2	142.5°	548.3	546.3	545.7	545.2	545.2
1740.9	1620.7	1519.6	1426.0	1340.1	1293.6	1304.3	145°	572.9	570.8	572.3	573.9	574.4
1804.8	1690.6	1604.0	1518.1	1429.8	1391.0	1395.6	147.5°	598.4	596.4	597.9	599.4	598.9
1866.4	1759.1	1703.6	1639.7	1588.0	1528.7	1528.7	150°	624.0	619.9	618.4	616.8	615.3
1902.9	1848.1	1832.9	1814.6	1784.2	1741.6	1732.5	152.5°	642.4	637.3	634.7	632.2	630.1
1947.7	1953.8	1988.8	2025.3	2034.4	1992.6	1979.6	155°	655.7	652.6	651.6	650.6	648.0
2032.1	2096.0	2210.9	2310.5	2330.3	2364.4	2325.0	157.5°	670.0	664.9	664.9	664.9	663.9
2150.8	2268.7	2462.7	2625.4	2671.7	2674.8	2677.9	160°	681.3	675.1	675.7	676.2	677.7
2286.2	2455.0	2711.3	2905.3	2988.1	3010.1	2994.2	162.5°	689.5	683.3	684.4	685.4	685.9
2518.1	2671.0	2951.6	3160.8	3267.2	3319.0	3305.3	165°	697.7	693.6	694.6	695.6	694.1
2747.9	2937.9	3185.1	3391.2	3504.5	3562.3	3574.5	167.5°	709.9	703.8	703.8	703.8	701.7
2904.5	3082.5	3310.6	3500.7	3612.6	3681.7	3687.8	170°	717.1	712.0	711.0	709.9	707.4
3000.3	3163.1	3385.9	3553.2	3665.0	3723.5	3744.8	172.5°	717.1	712.0	711.0	709.9	708.9
3290.8	3320.5	3472.6	3582.9	3661.2	3687.8	3703.8	175°	715.0	709.9	711.0	712.0	711.5
3427.0	3303.0	3285.5	3353.9	3360.8	3343.3	3321.2	177.5°	718.1	714.0	715.6	717.1	716.1
3237.5	2947.8	2840.6	2831.4	2803.3	2791.9	2722.0	180°	716.1	716.1	716.1	716.1	716.1
2811.7	2394.1	2204.8	2102.1	2164.5	2162.2	2090.7						
2369.1	1943.9	1698.3	1550.7	1532.5	1529.4	1467.1						
1924.2	1525.6	1310.4	1238.9	1153.0	1127.1	1137.7						
1387.2	1089.0	1043.4	1098.2	1105.1	1085.2	1071.5						
873.8	819.1	863.2	962.8	1021.4	995.5	1005.5						
728.5	645.0	647.9	752.9	792.5	798.5	778.1						
808.4	645.7	529.4	516.4	502.7	316.4	440.4						
728.5	499.7	294.3	242.6	149.0	85.9	89.0						
9.2	9.2	8.2	7.2	7.2	7.2	7.7						
6.6	7.2	7.2	7.2	6.6	6.1	6.1						
7.7	8.2	7.7	7.2	7.2	7.2	7.2						
9.7	10.2	11.3	12.3	10.7	9.2	9.2						
25.1	26.6	28.1	29.7	25.6	21.5	16.9						
45.5	48.1	49.6	51.1	46.0	40.9	34.3						
69.0	71.6	72.6	73.7	69.0	64.4	56.8						
94.1	96.2	96.7	97.2	93.6	90.0	82.3						



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CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
123.8	123.3	122.8	119.7	116.6	110.5	0°	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9
153.4	152.4	151.4	148.8	146.3	141.7	2.5°	1662.5	1648.1	1632.1	1610.8	1614.6	1588.7
186.2	184.6	183.1	180.6	178.0	174.9	5°	1750.0	1724.9	1690.6	1647.4	1607.0	1555.3
219.9	217.9	215.8	212.8	209.7	208.2	7.5°	1740.9	1700.6	1643.5	1578.1	1524.9	1450.3
255.7	253.7	251.6	250.1	248.6	245.5	10°	1662.5	1610.0	1563.7	1496.0	1426.7	1361.3
289.5	287.4	285.4	284.4	283.4	280.3	12.5°	1553.0	1523.4	1483.1	1432.1	1365.1	1298.2
322.2	321.2	320.2	318.6	317.1	314.6	15°	1433.6	1435.9	1411.6	1397.9	1364.4	1311.1
353.9	353.4	352.9	350.4	347.8	347.3	17.5°	1335.5	1358.3	1371.3	1392.5	1396.3	1370.4
389.7	387.7	385.7	383.1	380.5	379.5	20°	1270.1	1302.0	1342.3	1400.9	1462.5	1489.1
425.5	423.0	420.4	417.4	414.3	413.8	22.5°	1233.6	1273.2	1337.8	1444.2	1556.8	1624.4
458.3	455.7	453.2	450.1	447.0	446.0	25°	1226.7	1279.2	1369.7	1499.7	1645.8	1740.9
485.9	484.9	483.9	481.3	478.7	476.7	27.5°	1238.2	1306.6	1413.8	1562.1	1705.9	1843.6
513.5	512.5	511.5	509.9	508.4	505.3	30°	1274.7	1354.5	1471.6	1631.3	1780.4	1917.3
545.2	542.2	539.1	538.1	537.0	535.0	32.5°	1309.7	1408.5	1537.8	1693.7	1843.6	1979.6
574.9	571.8	568.8	566.2	563.6	563.1	35°	1365.9	1465.6	1597.8	1741.6	1886.8	2041.3
598.4	595.9	593.3	590.8	588.2	587.7	37.5°	1451.9	1539.3	1645.0	1778.9	1930.2	2090.0
613.8	612.2	610.7	608.7	606.6	606.6	40°	1574.3	1632.1	1700.6	1806.2	1951.5	2122.6
628.1	626.6	625.0	624.5	624.0	624.0	42.5°	1757.6	1769.8	1793.3	1848.1	1970.5	2160.7
645.5	642.9	640.4	641.4	642.4	643.4	45°	1994.1	1957.6	1937.1	1929.5	2013.2	2185.0
662.9	660.8	658.8	659.3	659.8	660.3	47.5°	2268.7	2197.2	2115.1	2075.5	2095.3	2223.8
679.2	676.2	673.1	671.6	670.0	670.0	50°	2626.1	2509.7	2348.5	2234.4	2224.5	2337.9
686.4	684.4	682.3	680.3	678.2	677.2	52.5°	2953.9	2801.8	2598.7	2464.1	2409.4	2550.8
692.5	690.0	687.4	687.9	688.4	688.4	55°	3263.4	3146.3	2916.6	2749.3	2730.4	2833.0
699.7	696.6	693.6	697.1	700.7	702.3	57.5°	3534.9	3433.8	3245.9	3027.6	3035.3	3134.9
704.8	703.3	701.7	704.3	706.9	707.9	59°	3675.7	3591.3	3417.1	3195.0	3211.8	3348.6
707.9	706.3	704.8	705.3	705.8	705.8	60°	3725.9	3655.1	3489.3	3302.2	3323.6	3465.8
711.0	708.4	705.8	705.8	705.8	706.3	62.5°	3722.0	3676.4	3556.3	3468.0	3576.7	3681.0
715.0	712.5	709.9	710.4	711.0	712.0	65°	3366.8	3297.7	3284.0	3438.3	3648.3	3748.7
716.1	716.1	716.1	716.1	716.1	716.1	67.5°	2677.9	2710.5	2840.6	3106.0	3458.2	3604.2
						70°	1988.8	2046.6	2220.0	2553.1	3036.8	3289.3
						72.5°	1462.5	1520.3	1680.0	2045.1	2498.4	2722.0
						75°	1147.6	1165.1	1280.0	1566.6	1969.0	2152.3
						77.5°	1060.2	1007.7	960.6	1114.2	1327.9	1485.3
						80°	987.1	887.5	776.5	822.9	874.6	1042.0
						82.5°	766.6	700.4	613.8	673.1	697.4	702.8
						85°	448.7	399.3	505.7	716.4	708.8	620.6
						87.5°	158.1	205.3	231.2	397.0	479.9	415.2
						90°	8.2	10.4	15.0	15.2	18.6	9.9
						92.5°	6.1	6.1	6.1	5.6	5.1	4.6
						95°	7.2	7.2	7.2	6.6	6.1	5.6
						97.5°	9.2	8.7	8.2	8.2	8.2	7.7
						100°	12.3	11.3	10.2	9.7	9.2	8.7
						102.5°	27.6	23.0	18.4	15.9	13.3	12.3
						105°	49.1	43.0	36.8	32.2	27.6	25.1
						107.5°	74.7	67.0	59.3	54.7	50.1	46.5



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CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
1492.9	1492.9	1492.9	110°	104.3	96.7	89.0	82.3	75.7	72.6	69.6
1568.2	1546.9	1545.4	112.5°	137.1	130.4	123.8	116.1	108.4	104.9	101.3
1514.2	1466.3	1451.1	115°	171.9	167.3	162.6	156.5	150.4	146.3	142.2
1385.7	1330.1	1318.8	117.5°	206.6	204.1	201.5	197.4	193.3	190.8	188.2
1277.7	1216.1	1205.4	120°	242.4	240.4	238.3	234.8	231.2	229.7	228.1
1222.2	1163.6	1150.7	122.5°	277.2	275.2	273.1	270.1	267.0	266.5	266.0
1243.5	1178.8	1172.0	125°	312.0	308.9	305.9	304.3	302.8	301.8	300.7
1323.3	1254.9	1257.9	127.5°	346.8	343.7	340.6	338.6	336.6	336.6	336.6
1460.3	1416.1	1405.4	130°	378.5	376.4	374.4	372.4	370.3	369.8	369.3
1639.7	1591.8	1578.1	132.5°	413.3	411.7	410.2	406.1	402.0	402.5	403.0
1792.6	1768.3	1759.1	135°	445.0	443.4	441.9	438.8	435.8	435.8	435.8
1902.9	1914.2	1905.1	137.5°	474.6	472.6	470.6	470.0	469.5	468.5	467.5
1991.1	2029.1	2024.5	140°	502.3	501.2	500.2	499.2	498.2	497.2	496.1
2081.6	2155.4	2158.4	142.5°	533.0	531.4	529.9	529.4	528.9	527.8	526.8
2148.5	2278.5	2305.2	145°	562.6	561.1	559.6	558.0	556.5	557.5	558.5
2234.4	2408.6	2436.0	147.5°	587.2	587.2	587.2	585.6	584.1	584.6	585.1
2299.8	2504.4	2537.9	150°	606.6	606.6	606.6	606.6	606.6	606.1	605.6
2363.7	2583.6	2620.1	152.5°	624.0	623.5	623.0	622.5	622.0	622.0	622.0
2416.2	2661.8	2699.2	155°	644.5	642.9	641.4	640.4	639.3	639.3	639.3
2475.5	2737.9	2774.4	157.5°	660.8	659.8	658.8	658.3	657.8	657.8	657.8
2582.0	2857.3	2900.7	160°	670.0	670.5	671.1	672.6	674.1	674.6	675.1
2811.0	3078.7	3140.3	162.5°	676.2	678.2	680.3	682.3	684.4	684.4	684.4
3141.8	3384.3	3433.0	165°	688.4	690.0	691.5	691.5	691.5	692.5	693.6
3439.9	3592.0	3604.9	167.5°	703.8	702.8	701.7	700.7	699.7	701.2	702.8
3562.3	3649.1	3645.2	170°	708.9	708.4	707.9	707.9	707.9	709.4	711.0
3652.0	3662.7	3641.4	172.5°	705.8	707.4	708.9	709.9	711.0	712.0	713.0
3700.7	3599.6	3563.1	175°	706.9	708.9	711.0	712.0	713.0	713.5	714.0
3573.8	3433.0	3385.1	177.5°	713.0	714.0	715.0	715.6	716.1	718.6	721.2
3207.2	3132.6	3077.9	180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1
2728.0	2539.4	2503.7								
2067.9	1819.2	1765.9								
1445.0	1146.9	1074.6								
949.9	736.2	708.8								
616.0	489.1	480.7								
429.7	320.9	295.8								
263.9	107.2	102.7								
82.1	49.4	44.1								
7.4	8.2	8.2								
4.1	4.1	4.1								
5.1	5.1	5.1								
7.2	7.2	7.2								
8.2	8.2	8.2								
11.3	11.3	11.3								
22.5	21.7	21.5								
43.0	42.1	41.9								



359°	360°
67.9	67.5
101.3	101.3
143.0	143.2
188.2	188.2
229.8	230.2
268.4	269.0
304.0	304.8
337.4	337.6
370.9	371.3
404.7	405.1
438.2	438.8
469.9	470.6
498.6	499.2
529.3	529.9
561.8	562.6
587.6	588.2
608.0	608.7
624.4	625.0
642.6	643.4
660.2	660.8
677.6	678.2
687.6	688.4
696.0	696.6
705.2	705.8
713.4	714.0
714.6	715.0
715.7	716.1
722.8	723.2
716.1	716.1

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