

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: P227278

Luminaire Tested: **ISW-AF-600-LED-E1-SLR-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227278
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-600-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: 5265.3 lumens
Efficiency: N/A
Efficacy: 104.5 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): 50.4
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

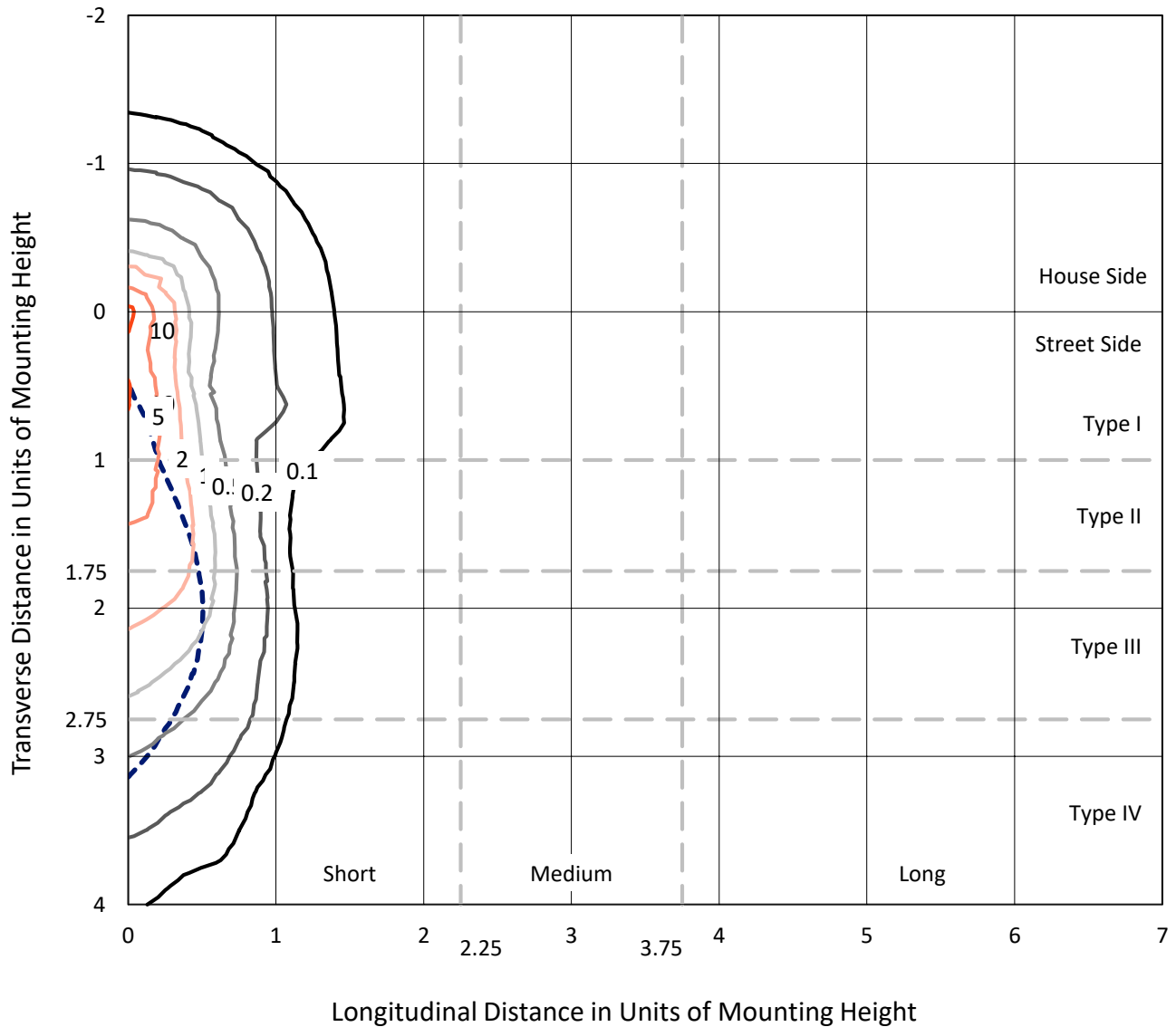


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Iso-Footcandle Lines of Horizontal Illumination

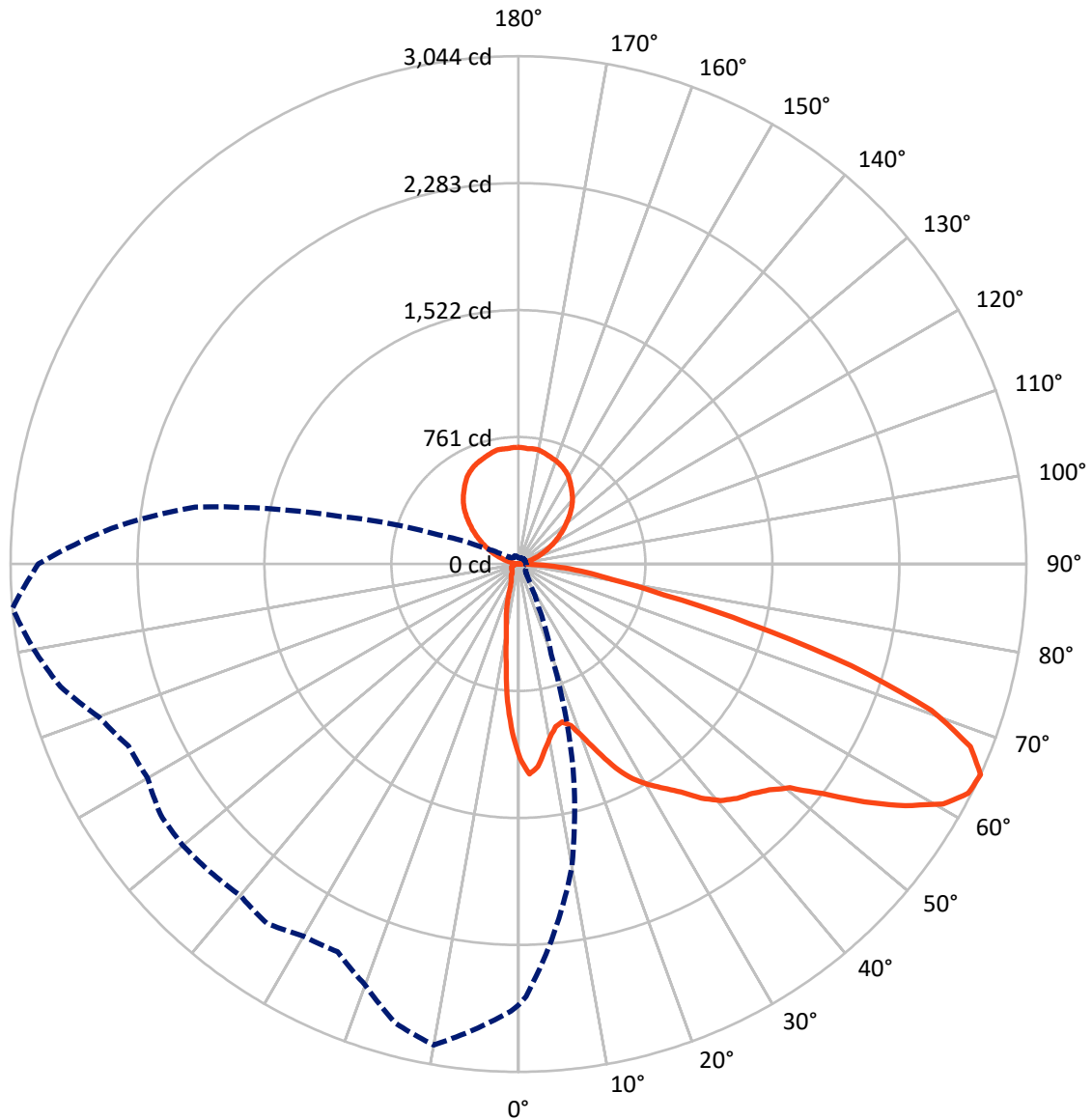
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 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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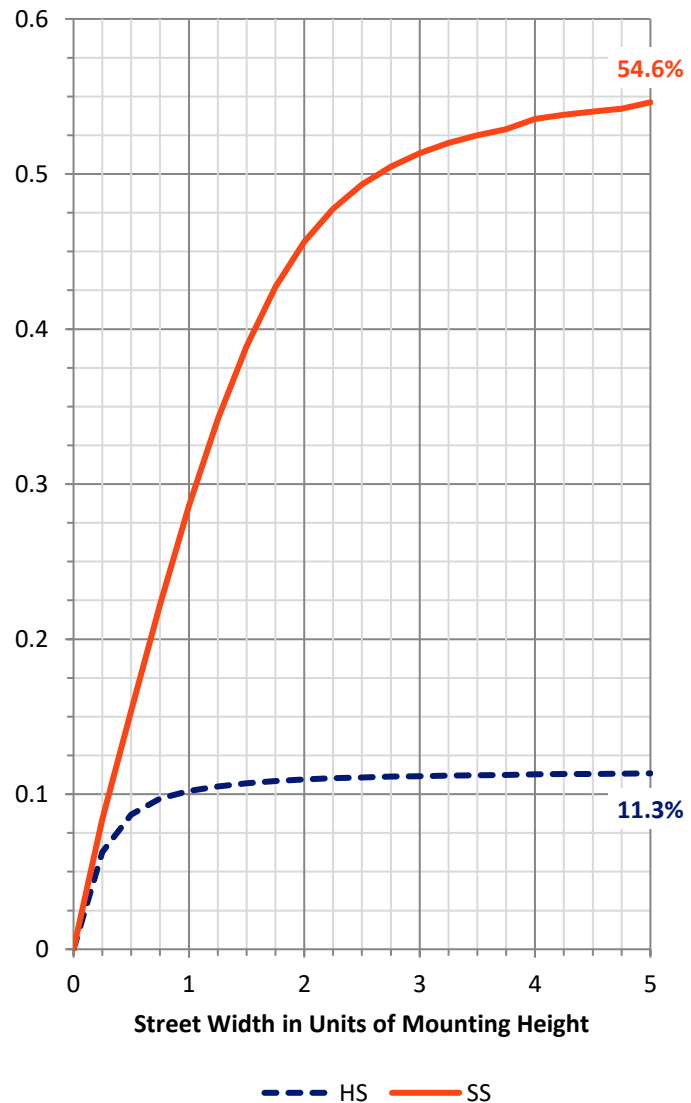
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	605.9	867.6	1473.5
	% Fixture	11.5	16.5	28.0
Street Side	Lumens	2924.2	867.7	3791.9
	% Fixture	55.5	16.5	72.0
Total	Lumens	3530.0	1735.3	5265.3
	% Fixture	67.0	33.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	1.6
10°-20°	166.2	3.2
20°-30°	237.0	4.5
30°-40°	343.8	6.5
40°-50°	491.8	9.3
50°-60°	755.1	14.3
60°-70°	874.1	16.6
70°-80°	445.9	8.5
80°-90°	129.7	2.5
90°-100°	9.4	0.2
100°-110°	57.4	1.1
110°-120°	166.1	3.2
120°-130°	273.2	5.2
130°-140°	336.8	6.4
140°-150°	344.6	6.5
150°-160°	290.3	5.5
160°-170°	191.2	3.6
170°-180°	66.3	1.3
0°-90°	3530.0	67.0
0°-180°	5265.3	100.0



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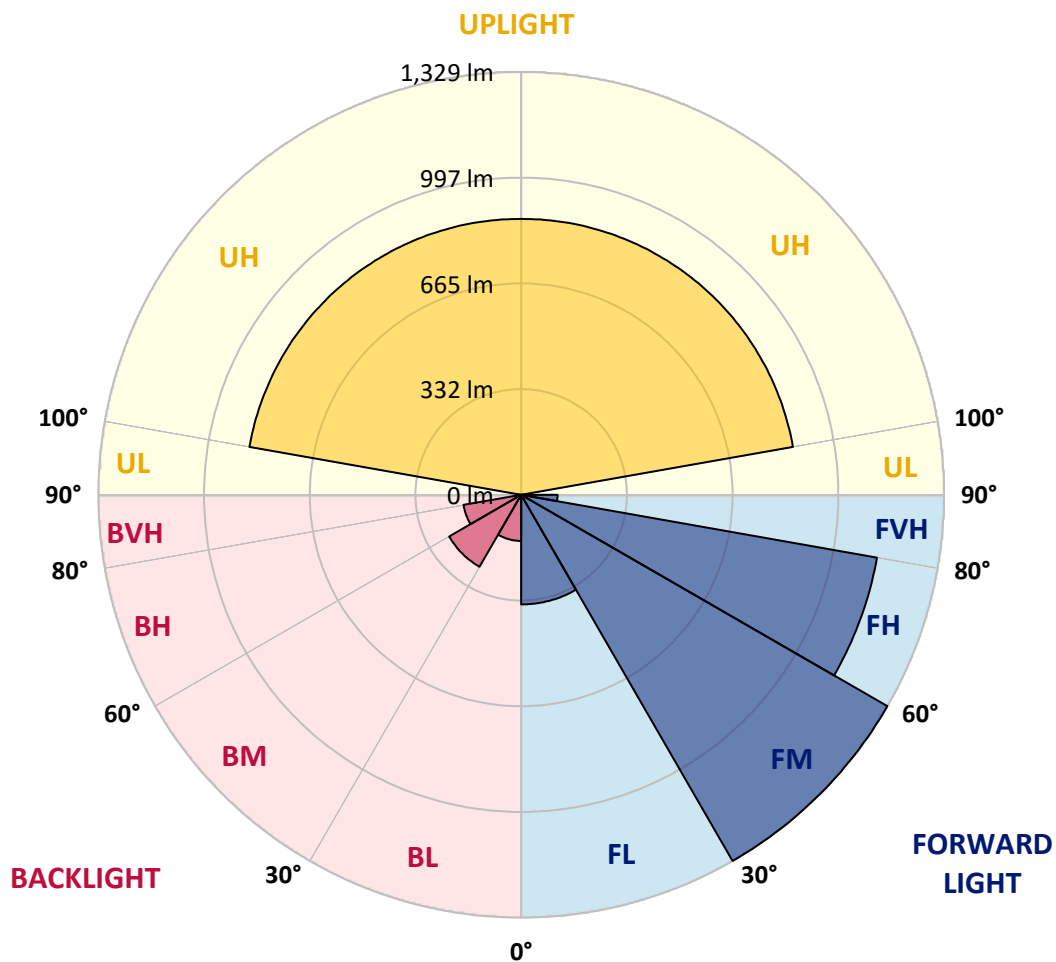
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.7	6.5			
FM	(30°-60°)	1329.4	25.2			
FH	(60°-80°)	1135.9	21.6			G1/1800
FVH	(80°-90°)	114.2	2.2			G2/225
BL	(0°-30°)	144.9	2.8	B1/500		
BM	(30°-60°)	261.4	5.0	B1/1000		
BH	(60°-80°)	184.1	3.5	B1/500		G1/500
BVH	(80°-90°)	15.5	0.3			G1/100
UL	(90°-100°)	9.4	0.2		U1/10	
UH	(100°-180°)	867.6	16.5		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9
2.5°	1206.9	1199.7	1190.8	1175.4	1161.7	1142.1	1137.4	1113.0	1097.6	1101.2	1073.2
5°	1133.2	1129.1	1107.1	1072.6	1050.1	1005.5	980.0	966.9	930.1	925.3	915.3
7.5°	1029.9	1017.4	981.8	939.0	900.4	867.7	826.8	795.3	767.4	750.1	719.8
10°	941.4	928.3	889.7	837.4	791.1	745.4	712.1	671.1	631.4	600.5	576.1
12.5°	898.6	884.4	839.2	778.6	727.0	670.0	623.0	582.6	560.7	545.2	525.0
15°	915.3	894.5	840.4	768.0	703.8	643.2	593.3	550.0	523.8	500.1	476.3
17.5°	982.4	956.8	895.1	807.8	718.7	640.3	569.0	519.7	478.1	442.5	410.4
20°	1097.6	1078.6	988.9	866.5	750.7	642.0	548.2	483.5	433.0	387.8	345.1
22.5°	1232.4	1203.9	1116.0	946.1	791.7	652.7	535.1	453.2	393.2	332.6	286.3
25°	1373.8	1351.8	1235.4	1053.0	854.7	674.7	525.0	426.4	346.3	279.1	228.1
27.5°	1487.8	1468.2	1353.0	1155.8	912.3	693.7	510.2	400.9	308.8	228.1	171.6
30°	1581.1	1564.4	1443.9	1240.1	982.4	700.2	489.4	371.2	267.3	184.1	142.0
32.5°	1685.6	1667.2	1531.2	1298.9	1013.8	694.3	465.6	343.3	234.0	162.7	121.8
35°	1800.2	1778.8	1628.6	1362.5	1040.0	673.5	445.5	323.1	218.0	147.9	108.1
37.5°	1902.4	1888.7	1716.5	1425.4	1069.7	639.1	425.9	301.1	207.3	137.2	97.4
40°	1982.0	1978.4	1813.9	1477.7	1092.8	614.1	409.8	283.9	193.6	133.0	93.8
42.5°	2046.1	2044.9	1893.5	1524.6	1098.8	592.2	397.3	268.5	181.1	122.9	95.6
45°	2107.9	2107.3	1970.7	1590.0	1102.9	593.3	387.8	259.0	170.5	116.4	90.3
47.5°	2166.7	2175.6	2051.4	1680.8	1146.9	613.5	384.3	250.0	162.1	109.3	85.5
50°	2265.3	2256.4	2179.1	1803.8	1217.6	652.7	378.3	242.3	154.4	102.8	80.8
52.5°	2452.4	2442.3	2373.4	1968.3	1294.8	693.1	370.6	231.6	145.5	95.6	75.4
55°	2681.0	2694.7	2599.1	2168.5	1399.9	727.0	362.3	217.4	133.6	87.3	71.9
57.5°	2815.2	2804.0	2694.7	2283.7	1464.6	744.2	357.0	200.7	115.2	80.2	68.3
59°	2846.7	2827.7	2678.6	2303.3	1481.9	735.9	354.0	184.7	105.7	76.6	66.5
60°	2843.8	2820.6	2653.1	2290.8	1486.6	725.8	349.2	175.2	100.4	74.8	65.9
62.5°	2782.6	2746.4	2508.2	2139.9	1420.1	675.3	329.6	152.6	93.2	72.5	62.4
65°	2643.6	2592.5	2264.7	1845.4	1267.5	574.9	285.1	144.3	95.0	71.3	60.0
67.5°	2403.7	2362.7	1951.7	1527.0	1010.3	464.5	246.5	140.8	97.4	72.5	56.4
70°	1955.2	1920.2	1522.8	1143.3	756.7	369.4	223.9	139.0	95.6	69.5	53.5
72.5°	1379.1	1318.5	1012.1	800.6	479.9	297.0	194.2	131.3	93.2	67.1	48.7
75°	839.2	850.5	643.2	583.2	302.9	203.7	152.6	110.5	82.6	60.0	44.0
77.5°	553.5	553.0	474.6	411.6	153.8	126.5	108.1	84.9	64.7	49.3	38.0
80°	375.4	379.5	344.5	280.9	85.5	76.0	70.7	61.8	47.5	37.4	31.5
82.5°	231.0	231.6	266.7	210.3	57.0	48.1	45.1	41.6	33.9	29.1	24.4
85°	80.2	82.0	93.2	148.5	38.6	31.5	31.5	29.1	25.5	19.6	16.0
87.5°	34.4	33.9	40.4	40.4	19.0	16.0	14.8	14.8	14.3	10.7	8.9
90°	7.4	6.8	6.8	8.4	10.0	11.7	11.6	12.2	12.2	11.1	9.4
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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CATALOG NUMBER: ISW-AF-600-LED-E1-SLR-7050-ULG

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°	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9
2.5°	1064.9	1058.4	1040.0	1035.2	1041.2	1029.3	1026.3	1023.3	1001.4	1012.7	999.6
5°	890.3	888.5	851.1	858.8	851.1	838.0	832.7	845.2	823.2	827.9	830.9
7.5°	684.2	677.1	652.1	635.5	625.4	616.5	605.2	586.8	601.1	598.1	620.7
10°	555.3	539.9	524.4	501.3	488.2	475.7	462.7	455.5	438.9	437.1	429.4
12.5°	509.0	487.0	467.4	447.2	433.6	408.6	387.8	374.8	364.1	347.5	335.0
15°	447.2	428.8	403.3	383.7	362.3	339.7	319.5	302.9	295.2	279.7	272.6
17.5°	384.9	357.0	326.1	306.5	276.8	253.6	237.0	226.3	215.0	205.5	197.2
20°	310.0	273.8	240.5	215.6	192.4	169.9	162.1	149.1	144.3	140.8	143.7
22.5°	235.8	198.4	163.9	144.9	132.4	126.5	120.0	117.6	115.8	115.2	116.4
25°	172.8	141.4	124.7	117.6	112.8	109.3	106.9	105.1	103.9	103.3	103.9
27.5°	133.6	117.0	108.7	103.9	100.4	98.0	96.8	95.0	94.4	93.8	94.4
30°	115.8	106.9	101.0	96.2	92.1	87.9	86.1	85.5	86.1	86.7	86.1
32.5°	101.0	94.4	87.9	83.7	80.8	78.4	78.4	77.2	77.2	79.0	79.6
35°	91.5	84.9	80.2	74.8	71.3	68.9	67.1	65.9	66.5	66.5	68.3
37.5°	83.7	79.0	74.8	70.1	66.5	64.1	63.0	61.8	61.2	60.6	60.6
40°	78.4	75.4	71.9	67.1	63.6	61.2	60.0	58.8	58.2	57.6	57.6
42.5°	78.4	72.5	70.1	65.9	61.8	59.4	57.6	56.4	55.2	55.2	55.2
45°	86.1	74.2	70.1	65.3	61.2	58.2	56.4	54.6	53.5	53.5	52.9
47.5°	83.7	83.2	71.3	65.3	61.8	58.2	55.8	54.0	52.9	52.3	51.7
50°	79.6	86.7	79.6	67.1	61.8	57.6	55.2	53.5	51.7	51.1	51.1
52.5°	77.2	80.8	82.6	69.5	62.4	57.6	54.6	52.9	51.7	50.5	49.9
55°	71.3	76.0	79.0	68.3	62.4	56.4	53.5	51.7	49.9	49.3	48.7
57.5°	65.3	68.9	76.0	68.3	60.6	55.8	52.3	49.9	48.7	48.1	47.5
59°	63.6	63.6	67.7	70.1	59.4	55.2	51.7	49.3	48.1	47.5	46.3
60°	61.8	61.8	64.1	71.9	58.8	54.6	51.1	48.7	46.9	46.9	46.3
62.5°	59.4	57.6	58.8	67.1	57.0	53.5	49.9	47.5	45.7	45.7	45.1
65°	56.4	54.0	54.0	55.8	53.5	51.1	48.7	46.3	44.0	44.0	44.5
67.5°	53.5	51.1	50.5	50.5	49.3	48.7	46.3	44.0	42.8	42.8	42.8
70°	49.3	47.5	46.9	45.7	45.7	45.1	43.4	41.6	40.4	41.0	40.4
72.5°	44.5	43.4	42.2	42.2	41.6	41.0	39.2	38.0	37.4	38.0	38.0
75°	39.8	38.0	38.0	36.8	36.8	36.2	34.4	33.9	33.3	33.9	34.4
77.5°	33.9	32.7	32.1	32.1	32.1	32.1	29.7	29.1	29.1	30.3	30.3
80°	27.9	27.3	26.7	26.7	26.7	26.1	24.9	24.4	24.4	24.9	25.5
82.5°	21.4	20.2	20.2	20.8	21.4	21.4	19.6	18.4	18.4	19.6	20.8
85°	14.3	14.3	14.3	14.8	14.8	15.4	14.3	12.5	13.1	13.7	15.4
87.5°	7.7	8.3	7.7	7.1	8.3	7.7	7.7	7.1	7.7	8.3	8.9
90°	9.4	9.4	9.8	10.2	9.6	10.2	9.2	8.8	7.6	7.6	9.2
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-600-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: P227278

CATALOG NUMBER: ISW-AF-600-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9
2.5°	1011.5	1001.4	996.0	1016.8	1015.0	997.2	997.2	1009.7	1010.3	999.6	1012.1
5°	834.5	824.4	833.9	825.6	830.3	829.7	836.9	823.8	829.1	824.4	813.1
7.5°	618.9	639.1	649.8	636.1	653.3	662.2	649.8	662.2	642.6	626.6	642.0
10°	425.9	448.4	444.3	466.2	474.6	479.3	488.2	476.9	463.3	459.1	447.8
12.5°	330.2	325.5	323.7	332.6	337.9	330.2	336.8	329.6	322.5	310.0	309.4
15°	258.4	250.6	245.3	235.2	231.6	233.4	236.4	236.4	222.1	222.7	228.1
17.5°	196.0	194.2	190.1	181.7	176.4	178.2	177.6	174.6	172.8	174.0	180.6
20°	147.3	145.5	147.9	150.3	148.5	149.1	146.7	143.7	142.5	143.7	144.9
22.5°	116.4	118.8	121.8	125.3	125.9	128.9	128.3	128.9	126.5	125.3	122.4
25°	106.3	107.5	105.7	106.3	106.3	109.3	108.7	108.7	106.3	105.7	106.3
27.5°	93.8	93.2	93.2	94.4	94.4	96.2	97.4	96.2	93.8	93.2	93.8
30°	86.7	86.1	85.5	86.1	85.5	86.1	87.3	87.3	86.1	84.3	84.9
32.5°	79.6	79.6	79.0	79.6	79.0	79.0	80.2	78.4	78.4	77.8	77.8
35°	70.1	71.3	72.5	73.1	73.1	73.1	74.2	72.5	71.9	71.3	71.3
37.5°	60.6	61.8	65.3	67.1	67.7	68.9	69.5	68.3	67.1	65.9	64.7
40°	57.6	57.6	58.8	61.2	63.6	64.1	65.3	63.6	63.0	61.2	59.4
42.5°	55.2	55.8	55.8	56.4	57.0	58.2	60.0	58.2	57.0	55.8	54.0
45°	53.5	53.5	53.5	53.5	52.9	52.9	53.5	52.3	51.7	51.1	51.1
47.5°	52.3	51.7	51.1	50.5	49.9	49.3	49.3	48.1	48.1	48.1	48.1
50°	51.1	49.9	49.3	48.7	47.5	47.5	47.5	46.3	45.7	45.7	46.3
52.5°	49.3	48.7	48.1	47.5	46.9	46.3	46.3	45.1	44.5	44.5	44.5
55°	48.7	48.1	46.9	46.3	45.7	46.3	45.7	45.1	44.0	44.0	44.0
57.5°	46.9	47.5	46.9	45.7	45.7	45.7	45.7	44.5	44.0	42.8	43.4
59°	46.3	46.9	46.3	45.7	45.1	45.7	45.7	44.0	43.4	42.8	42.8
60°	45.7	46.3	45.7	45.1	45.1	45.7	45.1	44.5	43.4	41.6	42.2
62.5°	45.1	45.1	44.5	44.5	44.0	44.5	44.0	42.8	41.6	40.4	39.8
65°	44.0	44.0	43.4	43.4	42.8	42.8	42.8	41.6	40.4	39.2	39.2
67.5°	43.4	42.8	42.2	42.2	41.6	41.6	41.6	40.4	38.6	38.0	37.4
70°	41.0	40.4	40.4	39.8	39.2	39.8	40.4	38.6	36.8	35.6	35.0
72.5°	38.6	38.0	38.0	37.4	37.4	38.0	38.6	36.8	34.4	33.3	32.7
75°	35.0	34.4	34.4	34.4	34.4	35.6	35.6	33.9	32.1	30.3	29.1
77.5°	30.3	30.9	30.9	30.9	30.9	32.1	32.1	30.9	29.1	27.9	26.1
80°	26.1	26.1	26.7	26.7	27.3	27.3	26.7	26.1	25.5	24.4	22.0
82.5°	22.0	22.0	22.0	22.0	22.0	21.4	20.2	21.4	21.4	20.2	18.4
85°	17.2	17.2	17.2	17.8	17.8	16.0	14.3	14.3	16.0	15.4	14.3
87.5°	10.1	10.1	10.7	12.5	11.3	10.7	8.9	9.5	8.9	10.1	8.3
90°	11.4	10.8	10.8	8.6	8.2	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°
1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	110°	80.5
1013.3	1015.6	1021.0	1019.2	1038.8	1032.9	1046.5	1064.9	1082.1	1073.8	1076.2	112.5°	113.5
833.3	836.3	813.7	827.3	847.5	839.2	836.3	863.6	857.0	887.9	862.4	115°	153.0
617.1	610.0	599.3	593.9	579.1	579.1	607.0	619.5	617.7	639.1	661.0	117.5°	193.0
433.6	425.3	412.2	408.6	423.5	430.6	443.1	455.5	472.2	496.5	510.8	120°	229.5
318.3	315.4	318.3	327.3	340.9	351.0	370.0	392.0	410.4	430.0	449.0	122.5°	264.0
240.5	246.5	254.2	260.1	270.8	289.8	299.9	324.3	340.9	358.1	380.1	125°	297.5
187.1	190.7	192.4	194.8	203.7	217.4	217.4	242.3	264.3	286.9	305.3	127.5°	331.0
142.5	142.5	136.6	140.2	141.4	140.2	147.3	161.6	175.8	190.7	219.8	130°	364.0
119.4	115.8	114.0	113.4	114.0	116.4	120.6	125.9	128.3	134.8	146.1	132.5°	397.0
105.7	105.1	103.3	103.3	104.5	105.1	109.3	114.0	115.2	117.0	121.2	135°	429.0
93.2	94.4	96.2	95.6	96.2	97.4	100.4	104.5	106.9	107.5	110.5	137.5°	459.5
84.3	85.5	86.1	87.9	87.9	88.5	90.9	95.0	96.8	99.8	102.8	140°	488.0
78.4	79.0	79.6	79.0	79.6	79.6	82.6	86.7	89.1	90.9	92.7	142.5°	517.5
71.9	71.3	71.3	71.3	69.5	68.9	70.1	74.2	74.8	76.6	80.8	145°	545.5
64.1	62.4	61.2	61.2	61.2	61.8	64.7	68.9	69.5	71.3	74.8	147.5°	572.5
57.0	56.4	56.4	57.0	57.6	58.8	61.2	65.3	65.9	67.7	70.7	150°	593.0
53.5	53.5	53.5	54.0	54.6	55.2	58.2	62.4	63.6	65.3	68.9	152.5°	608.5
51.1	51.7	51.1	51.1	51.7	52.9	55.8	60.6	62.4	64.1	67.7	155°	626.0
49.3	49.3	49.3	49.9	49.9	51.1	54.6	59.4	60.6	63.0	68.3	157.5°	643.5
46.9	48.1	47.5	48.1	48.7	49.9	53.5	58.2	60.0	63.6	69.5	160°	657.5
45.7	45.7	45.7	46.3	47.5	48.1	51.1	56.4	58.8	63.6	73.1	162.5°	667.0
45.1	44.0	44.0	44.5	45.7	46.9	49.9	55.2	58.2	63.0	72.5	165°	676.0
44.5	42.8	42.2	42.8	44.0	44.5	48.1	53.5	57.6	61.2	70.1	167.5°	685.0
42.8	41.6	41.0	41.6	42.8	44.0	46.9	52.3	55.2	60.0	67.1	170°	692.0
42.2	40.4	40.4	41.0	42.2	42.8	45.7	51.1	54.0	60.6	68.9	172.5°	694.0
39.8	39.2	39.2	39.8	39.8	41.0	44.5	49.9	52.3	61.8	57.6	175°	696.0
38.0	38.0	38.0	38.0	38.6	39.2	43.4	48.7	49.9	53.5	49.3	177.5°	699.5
36.8	36.8	36.8	36.8	36.8	38.0	41.6	46.9	47.5	46.9	45.1	180°	700.0
34.4	34.4	34.4	34.4	35.0	35.6	39.2	44.0	44.0	42.8	42.8		
32.7	32.1	32.1	32.1	32.1	32.7	36.2	41.0	40.4	39.8	39.8		
29.1	29.1	29.1	29.1	29.1	29.1	32.7	37.4	36.8	36.2	35.6		
25.5	25.5	26.1	25.5	24.9	24.4	27.9	33.3	33.3	32.7	32.1		
22.0	21.4	22.0	21.4	20.2	20.2	23.2	27.9	28.5	27.9	26.7		
17.8	17.2	17.2	17.2	14.8	14.8	17.8	22.6	22.6	22.0	20.8		
13.7	13.1	12.5	11.9	10.1	10.1	12.5	16.6	17.2	14.8	14.3		
7.1	7.1	7.1	5.3	4.8	4.2	6.5	10.1	10.1	8.3	7.1		
7.5	7.0	6.0	5.0	5.0	5.0	6.0	7.6	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		

'227278
 ISW-AF-600-LED-E1-SLR-7050-ULG

REPORT NUMBER: P227278
 CATALOG NUMBER: ISW-AF-60

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°	1165.9	1165.9
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	1091.1	1096.4
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	881.4	902.2
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	666.4	694.3
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	533.9	553.0
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	468.6	495.9
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	402.1	431.8
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	329.6	365.9
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	251.8	287.5
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	177.0	207.3
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	128.9	142.5
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	114.6	120.0
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	107.5	111.1
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	96.8	100.4
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	84.9	89.7
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	79.0	82.6
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	75.4	76.0
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	72.5	72.5
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	70.7	72.5
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	71.9	79.6
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	80.8	78.4
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	82.6	73.6
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	75.4	70.7
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	67.7	61.8
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	60.6	57.0
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	56.4	55.2
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	51.7	52.9
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	48.1	50.5
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	46.3	48.1
										70°	43.4	44.5
										72.5°	40.4	41.0
										75°	36.2	36.8
										77.5°	32.1	32.1
										80°	26.1	26.1
										82.5°	20.2	19.6
										85°	13.1	12.5
										87.5°	5.9	4.8
										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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CATALOG NUMBER: ISW-AF-600-LED-E1-

00-LED-E1-SLR-7050-ULG

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	110°	102.0	108.0	114.0
1123.1	1139.8	1152.8	1150.4	1178.4	1195.0	1197.4	1214.6	1231.2	112.5°	134.0	138.5	143.0
918.8	942.0	964.5	981.2	1025.1	1061.4	1089.3	1119.0	1154.0	115°	168.0	171.0	174.0
732.3	751.9	788.7	815.5	861.8	904.0	944.9	991.9	1031.7	117.5°	202.0	203.5	205.0
573.7	598.7	633.1	683.0	724.6	772.7	824.4	868.9	935.4	120°	237.0	240.0	243.0
515.5	531.0	559.5	583.2	634.9	686.0	744.2	805.4	866.5	122.5°	271.0	274.0	277.0
455.5	482.9	509.6	544.0	589.2	645.0	708.0	773.9	842.8	125°	305.0	307.5	310.0
397.3	433.6	462.7	500.1	550.6	621.3	703.2	785.2	866.0	127.5°	339.0	339.5	340.0
326.1	359.9	411.0	449.0	514.9	603.4	708.6	822.0	931.3	130°	370.0	371.0	372.0
256.6	292.8	351.0	407.4	479.9	593.9	729.9	882.6	1028.7	132.5°	404.0	404.5	405.0
183.5	232.8	290.4	361.7	449.6	588.0	759.0	957.4	1154.0	135°	435.0	436.0	437.0
137.2	171.6	241.7	319.5	415.8	577.3	789.9	1026.9	1239.5	137.5°	464.0	466.0	468.0
122.4	146.7	192.4	274.4	374.2	556.5	813.1	1092.8	1317.3	140°	491.0	494.0	497.0
106.9	125.9	162.1	231.6	336.8	524.4	823.2	1127.9	1371.4	142.5°	521.0	523.0	525.0
93.8	111.7	148.5	215.0	317.8	488.2	821.4	1162.9	1439.1	145°	550.0	550.5	551.0
85.5	101.0	142.5	210.8	302.9	455.0	823.2	1219.3	1539.5	147.5°	574.0	574.5	575.0
79.0	96.8	137.8	201.9	295.8	436.5	830.3	1269.2	1625.6	150°	593.0	593.0	593.0
79.0	95.6	125.9	189.5	292.2	438.3	833.3	1307.8	1689.7	152.5°	610.0	610.0	610.0
83.2	89.7	117.0	182.3	294.6	451.4	829.7	1347.0	1752.1	155°	630.0	629.0	628.0
79.0	83.7	111.1	181.1	294.6	460.9	840.4	1395.7	1834.1	157.5°	646.0	645.5	645.0
74.8	77.8	109.3	179.4	288.7	469.8	884.4	1486.6	1941.0	160°	655.0	655.0	655.0
69.5	73.1	106.9	176.4	282.1	481.1	962.2	1639.3	2118.0	162.5°	661.0	662.0	663.0
63.0	70.1	103.3	171.6	278.0	501.3	1041.8	1793.7	2328.8	165°	673.0	673.0	673.0
60.6	67.1	95.0	160.4	273.8	523.3	1126.7	1941.6	2518.3	167.5°	688.0	686.5	685.0
58.8	64.7	87.9	152.0	270.2	533.9	1152.2	1998.0	2591.3	170°	693.0	692.0	691.0
57.6	63.6	83.7	144.9	266.1	534.5	1170.6	2019.4	2602.0	172.5°	690.0	690.0	690.0
55.8	61.2	75.4	130.1	253.0	533.9	1172.4	2033.0	2571.1	175°	691.0	690.5	690.0
52.9	58.8	76.0	122.4	229.3	509.0	1098.8	1967.1	2448.2	177.5°	697.0	696.0	695.0
50.5	57.0	80.2	124.1	204.3	444.9	961.0	1762.2	2185.1	180°	700.0	700.0	700.0
46.9	55.8	83.7	128.3	197.2	369.4	727.0	1439.1	1829.9				
43.4	55.2	86.7	131.3	189.5	304.1	503.7	1020.4	1369.6				
39.2	50.5	79.0	111.7	156.8	220.9	324.3	667.6	944.4				
33.9	40.4	57.6	78.4	115.2	154.4	191.8	403.3	617.7				
27.9	30.3	41.0	50.5	76.6	91.5	106.3	227.5	431.8				
20.8	21.4	27.9	32.1	43.4	50.5	63.6	139.6	349.8				
11.9	13.7	19.0	21.4	26.1	32.1	41.6	89.1	274.4				
4.8	5.9	11.3	12.5	14.3	17.8	23.2	51.7	85.5				
7.0	7.0	7.0	8.0	9.0	9.0	9.0	8.0	7.0				
6.0	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0				
7.0	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0				
9.0	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0				
21.0	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0				
40.0	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0				
63.0	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0				
88.0	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0				

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CATALOG NUMBER: ISW-AF-600-LED-E1-SLR-7050-

SLR-7050-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°	1165.9	1165.9	1165.9	1165.9
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	1247.9	1260.3	1271.0	1279.3
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	1191.4	1220.5	1255.6	1285.3
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	1091.1	1127.9	1184.9	1219.9
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	996.0	1050.1	1112.4	1162.9
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	931.3	998.4	1057.8	1114.2
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	913.5	981.8	1035.2	1086.9
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	949.1	1017.4	1063.1	1094.6
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	1032.9	1105.9	1135.0	1132.6
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	1147.5	1224.1	1224.1	1200.3
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	1298.9	1354.2	1323.9	1278.7
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	1406.4	1458.1	1405.2	1331.0
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	1495.5	1533.5	1466.4	1376.7
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	1573.9	1601.8	1513.3	1424.8
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	1667.8	1677.9	1562.0	1467.6
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	1771.7	1780.0	1632.1	1514.5
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	1894.1	1864.4	1683.8	1557.9
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	1969.5	1920.8	1721.2	1580.5
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	2028.9	1962.4	1738.4	1593.5
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	2101.9	2023.5	1768.7	1617.3
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	2198.1	2108.5	1845.4	1684.4
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	2395.3	2284.3	1983.1	1801.4
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	2622.2	2517.1	2203.5	1994.4
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	2804.0	2733.3	2400.1	2169.0
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	2871.1	2840.8	2539.1	2316.9
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	2896.0	2922.2	2612.7	2407.2
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	2913.2	3026.7	2852.1	2676.9
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	2877.6	3043.9	2948.9	2841.4
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	2722.6	2921.6	2903.1	2808.7
								70°	2405.4	2627.0	2691.1	2556.9
								72.5°	1809.7	2084.7	2434.5	2224.3
								75°	1179.0	1433.2	2078.8	1905.3
								77.5°	738.3	894.5	1483.1	1334.6
								80°	491.2	574.9	941.4	857.0
								82.5°	369.4	407.4	647.4	608.8
								85°	194.8	248.3	503.7	638.5
								87.5°	73.1	81.4	378.9	570.8
								90°	7.0	7.0	8.6	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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CATALOG NUMBER: ISW-AF-600-LED-E1-SLR-7050-ULG

ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	110°	117.0	116.0	117.5	119.0	120.0
1286.5	1297.2	1303.7	1298.9	1306.7	1308.4	1300.1	112.5°	147.0	147.0	148.0	149.0	149.5
1310.2	1339.9	1361.3	1376.1	1382.1	1387.4	1385.1	115°	178.0	177.0	178.0	179.0	180.5
1266.3	1312.0	1351.8	1379.1	1388.6	1395.7	1389.2	117.5°	209.0	208.0	209.0	210.0	212.5
1217.6	1265.1	1302.5	1329.8	1329.2	1336.4	1323.9	120°	243.0	243.0	244.0	245.0	247.5
1171.8	1218.2	1251.4	1250.2	1241.9	1221.1	1217.6	122.5°	277.0	276.0	277.0	278.0	280.5
1135.6	1160.0	1168.3	1166.5	1142.7	1130.9	1129.1	125°	310.0	310.0	310.0	310.0	312.5
1117.8	1116.6	1097.6	1076.8	1054.2	1053.0	1037.6	127.5°	347.0	345.0	345.5	346.0	346.0
1120.8	1082.1	1047.1	1011.5	987.1	981.8	983.6	130°	380.0	379.0	380.0	381.0	381.0
1158.2	1089.9	1023.9	987.7	959.2	950.9	954.5	132.5°	415.0	414.0	414.0	414.0	415.0
1205.1	1113.6	1031.7	976.4	953.3	943.2	944.9	135°	451.0	450.0	448.5	447.0	447.5
1236.6	1140.9	1057.2	988.9	957.4	947.9	953.9	137.5°	482.0	481.0	478.5	476.0	475.5
1277.0	1178.4	1091.7	1021.0	974.1	961.6	965.7	140°	511.0	509.0	506.5	504.0	503.0
1316.8	1218.8	1140.4	1060.2	1003.2	980.0	986.5	142.5°	536.0	534.0	533.5	533.0	533.0
1359.5	1265.7	1186.7	1113.6	1046.5	1010.3	1018.6	145°	560.0	558.0	559.5	561.0	561.5
1409.4	1320.3	1252.6	1185.5	1116.6	1086.3	1089.9	147.5°	585.0	583.0	584.5	586.0	585.5
1457.5	1373.8	1330.4	1280.5	1240.1	1193.8	1193.8	150°	610.0	606.0	604.5	603.0	601.5
1486.0	1443.3	1431.4	1417.1	1393.4	1360.1	1353.0	152.5°	628.0	623.0	620.5	618.0	616.0
1521.1	1525.8	1553.1	1581.6	1588.8	1556.1	1546.0	155°	641.0	638.0	637.0	636.0	633.5
1587.0	1636.9	1726.6	1804.4	1819.8	1846.5	1815.7	157.5°	655.0	650.0	650.0	650.0	649.0
1679.6	1771.7	1923.2	2050.3	2086.5	2088.9	2091.2	160°	666.0	660.0	660.5	661.0	662.5
1785.4	1917.2	2117.4	2268.8	2333.6	2350.8	2338.3	162.5°	674.0	668.0	669.0	670.0	670.5
1966.5	2085.9	2305.1	2468.4	2551.5	2591.9	2581.2	165°	682.0	678.0	679.0	680.0	678.5
2145.9	2294.4	2487.4	2648.4	2736.8	2782.0	2791.5	167.5°	694.0	688.0	688.0	688.0	686.0
2268.2	2407.2	2585.4	2733.9	2821.2	2875.2	2880.0	170°	701.0	696.0	695.0	694.0	691.5
2343.1	2470.2	2644.2	2774.9	2862.2	2907.9	2924.5	172.5°	701.0	696.0	695.0	694.0	693.0
2570.0	2593.1	2711.9	2798.0	2859.2	2880.0	2892.5	175°	699.0	694.0	695.0	696.0	695.5
2676.3	2579.5	2565.8	2619.2	2624.6	2610.9	2593.7	177.5°	702.0	698.0	699.5	701.0	700.0
2528.4	2302.1	2218.3	2211.2	2189.2	2180.3	2125.7	180°	700.0	700.0	700.0	700.0	700.0
2195.8	1869.7	1721.8	1641.6	1690.3	1688.6	1632.7						
1850.1	1518.1	1326.3	1211.0	1196.8	1194.4	1145.7						
1502.7	1191.4	1023.3	967.5	900.4	880.2	888.5						
1083.3	850.5	814.9	857.6	863.0	847.5	836.9						
682.4	639.7	674.1	751.9	797.7	777.5	785.2						
569.0	503.7	506.0	588.0	618.9	623.6	607.6						
631.4	504.2	413.4	403.3	392.6	247.1	343.9						
569.0	390.2	229.9	189.5	116.4	67.1	69.5						
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°	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	1298.3	1287.1	1274.6	1258.0	1260.9	1240.7
182.0	180.5	179.0	176.5	174.0	171.0	5°	1366.6	1347.0	1320.3	1286.5	1255.0	1214.6
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	1359.5	1328.0	1283.5	1232.4	1190.8	1132.6
250.0	248.0	246.0	244.5	243.0	240.0	10°	1298.3	1257.4	1221.1	1168.3	1114.2	1063.1
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	1212.8	1189.6	1158.2	1118.4	1066.1	1013.8
315.0	314.0	313.0	311.5	310.0	307.5	15°	1119.6	1121.3	1102.3	1091.7	1065.5	1023.9
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	1042.9	1060.8	1070.9	1087.5	1090.5	1070.3
381.0	379.0	377.0	374.5	372.0	371.0	20°	991.9	1016.8	1048.3	1094.0	1142.1	1162.9
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	963.4	994.2	1044.7	1127.9	1215.8	1268.6
448.0	445.5	443.0	440.0	437.0	436.0	25°	958.0	999.0	1069.7	1171.2	1285.3	1359.5
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	966.9	1020.4	1104.1	1219.9	1332.2	1439.7
502.0	501.0	500.0	498.5	497.0	494.0	30°	995.4	1057.8	1149.3	1274.0	1390.4	1497.3
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	1022.8	1100.0	1200.9	1322.7	1439.7	1546.0
562.0	559.0	556.0	553.5	551.0	550.5	35°	1066.7	1144.5	1247.9	1360.1	1473.5	1594.1
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	1133.8	1202.1	1284.7	1389.2	1507.4	1632.1
600.0	598.5	597.0	595.0	593.0	593.0	40°	1229.4	1274.6	1328.0	1410.6	1524.0	1657.7
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	1372.6	1382.1	1400.5	1443.3	1538.9	1687.4
631.0	628.5	626.0	627.0	628.0	629.0	45°	1557.3	1528.8	1512.7	1506.8	1572.1	1706.4
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	1771.7	1715.9	1651.7	1620.8	1636.3	1736.7
664.0	661.0	658.0	656.5	655.0	655.0	50°	2050.9	1960.0	1834.1	1745.0	1737.3	1825.8
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	2306.8	2188.1	2029.5	1924.3	1881.6	1992.1
677.0	674.5	672.0	672.5	673.0	673.0	55°	2548.6	2457.1	2277.7	2147.1	2132.2	2212.4
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	2760.6	2681.6	2534.9	2364.5	2370.4	2448.2
689.0	687.5	686.0	688.5	691.0	692.0	59°	2870.5	2804.6	2668.5	2495.1	2508.2	2615.1
692.0	690.5	689.0	689.5	690.0	690.0	60°	2909.7	2854.4	2725.0	2578.9	2595.5	2706.6
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	2906.7	2871.1	2777.2	2708.3	2793.3	2874.6
699.0	696.5	694.0	694.5	695.0	696.0	65°	2629.3	2575.3	2564.6	2685.2	2849.1	2927.5
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	2091.2	2116.8	2218.3	2425.6	2700.6	2814.7
						70°	1553.1	1598.3	1733.7	1993.8	2371.6	2568.8
						72.5°	1142.1	1187.3	1312.0	1597.1	1951.1	2125.7
						75°	896.2	909.9	999.6	1223.5	1537.7	1680.8
						77.5°	827.9	787.0	750.1	870.1	1037.0	1160.0
						80°	770.9	693.1	606.4	642.6	683.0	813.7
						82.5°	598.7	547.0	479.3	525.6	544.6	548.8
						85°	350.4	311.8	395.0	559.5	553.5	484.7
						87.5°	123.5	160.4	180.6	310.0	374.8	324.3
						90°	8.0	9.8	13.3	13.4	15.9	9.0
						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°
1165.9	1165.9	1165.9	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
1224.7	1208.1	1206.9	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
1182.5	1145.1	1133.2	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
1082.1	1038.8	1029.9	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
997.8	949.7	941.4	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
954.5	908.7	898.6	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
971.1	920.6	915.3	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
1033.4	980.0	982.4	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
1140.4	1105.9	1097.6	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
1280.5	1243.1	1232.4	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
1399.9	1380.9	1373.8	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
1486.0	1494.9	1487.8	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
1554.9	1584.6	1581.1	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
1625.6	1683.2	1685.6	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
1677.9	1779.4	1800.2	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
1745.0	1881.0	1902.4	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
1796.1	1955.8	1982.0	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
1845.9	2017.6	2046.1	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
1886.9	2078.8	2107.9	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
1933.3	2138.2	2166.7	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
2016.4	2231.4	2265.3	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
2195.2	2404.2	2452.4	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
2453.5	2643.0	2681.0	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
2686.4	2805.1	2815.2	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
2782.0	2849.7	2846.7	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
2852.1	2860.4	2843.8	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
2890.1	2811.1	2782.6	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
2790.9	2681.0	2643.6	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
2504.6	2446.4	2403.7	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
2130.4	1983.1	1955.2								
1614.9	1420.7	1379.1								
1128.5	895.7	839.2								
741.8	574.9	553.5								
481.1	381.9	375.4								
335.6	250.6	231.0								
206.1	83.7	80.2								
64.1	38.6	34.4								
6.8	7.4	7.4								
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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