

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: P227276

Luminaire Tested: **ISW-AF-600-LED-E1-SLR-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227276
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-8030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, WITH
UPLIGHT GLOW
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4615.9 lumens
Efficiency: N/A
Efficacy: 91.6 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 - G1

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

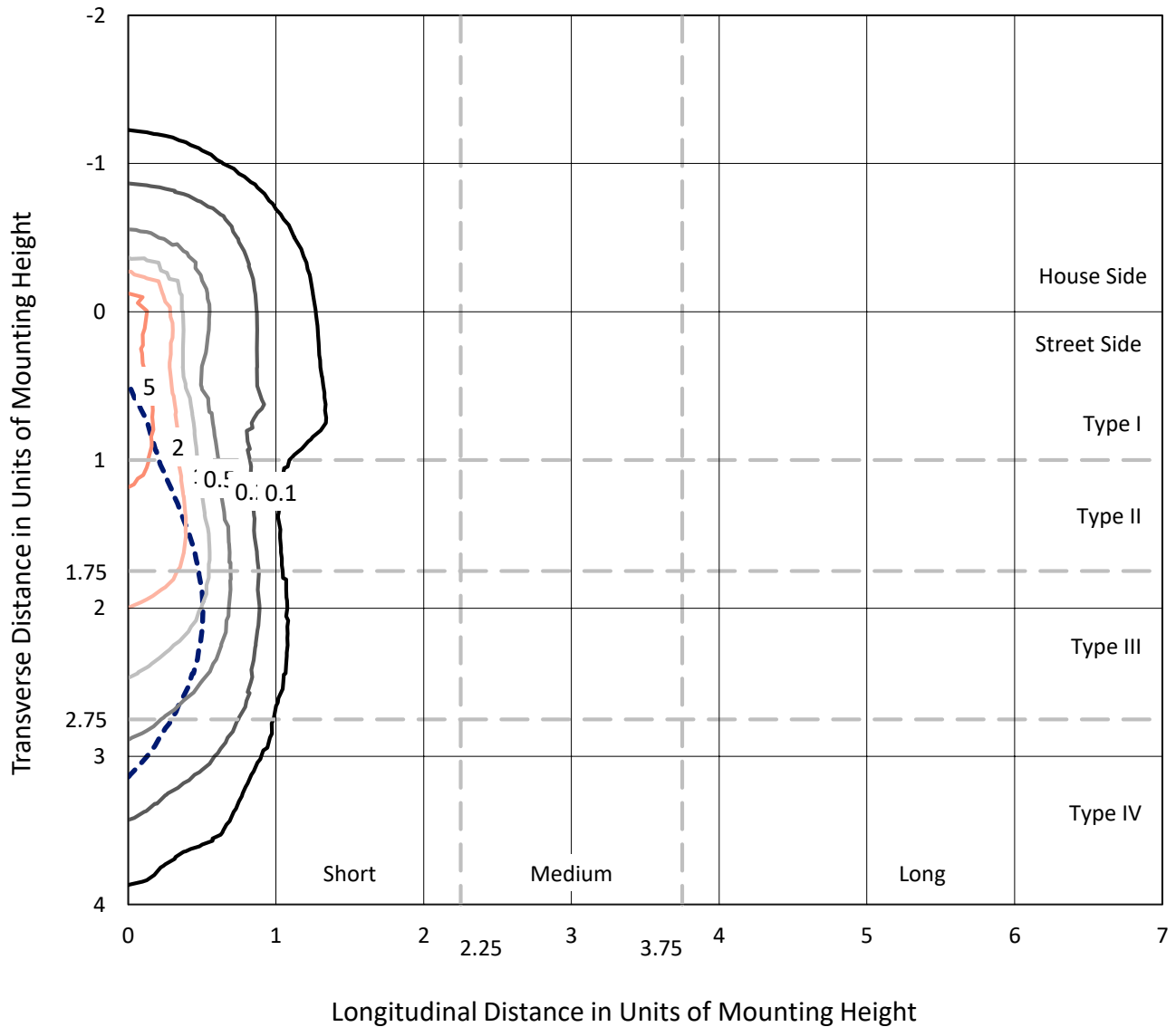


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Iso-Footcandle Lines of Horizontal Illumination

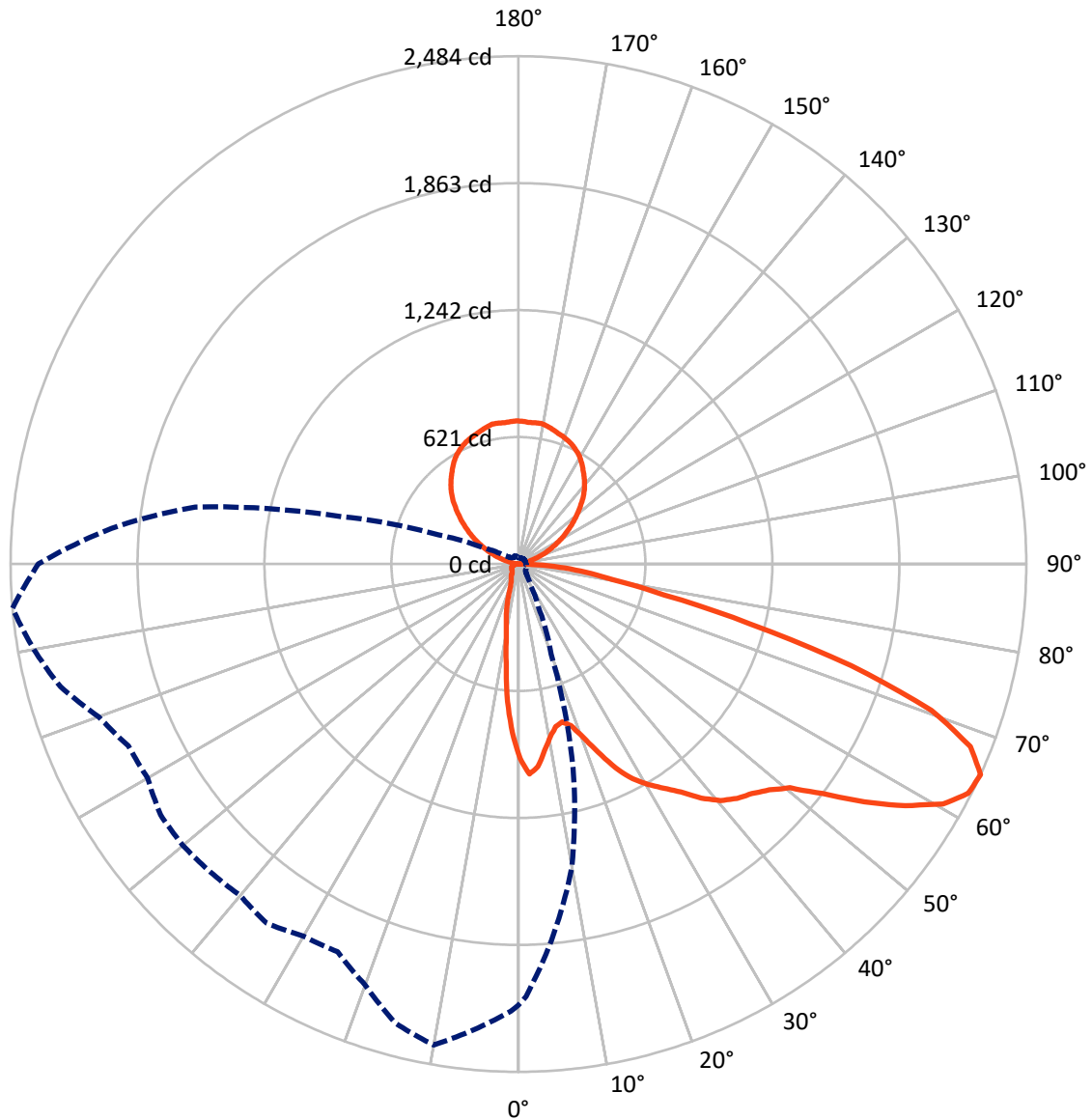
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 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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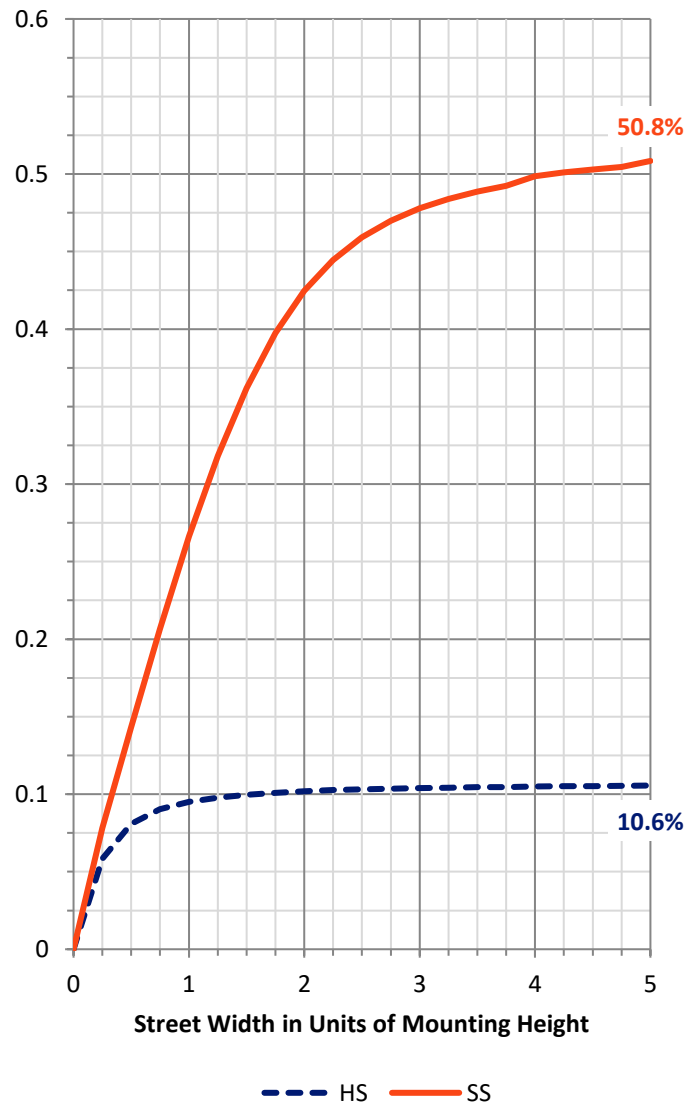
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	494.5	867.6	1362.1
	% Fixture	10.7	18.8	29.5
Street Side	Lumens	2386.2	867.7	3253.9
	% Fixture	51.7	18.8	70.5
Total	Lumens	2880.7	1735.3	4615.9
	% Fixture	62.4	37.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.5
10°-20°	135.6	2.9
20°-30°	193.4	4.2
30°-40°	280.5	6.1
40°-50°	401.3	8.7
50°-60°	616.2	13.3
60°-70°	713.2	15.5
70°-80°	363.9	7.9
80°-90°	106.0	2.3
90°-100°	9.4	0.2
100°-110°	57.4	1.2
110°-120°	166.1	3.6
120°-130°	273.2	5.9
130°-140°	336.8	7.3
140°-150°	344.6	7.5
150°-160°	290.3	6.3
160°-170°	191.2	4.1
170°-180°	66.3	1.4
0°-90°	2880.7	62.4
0°-180°	4615.9	100.0



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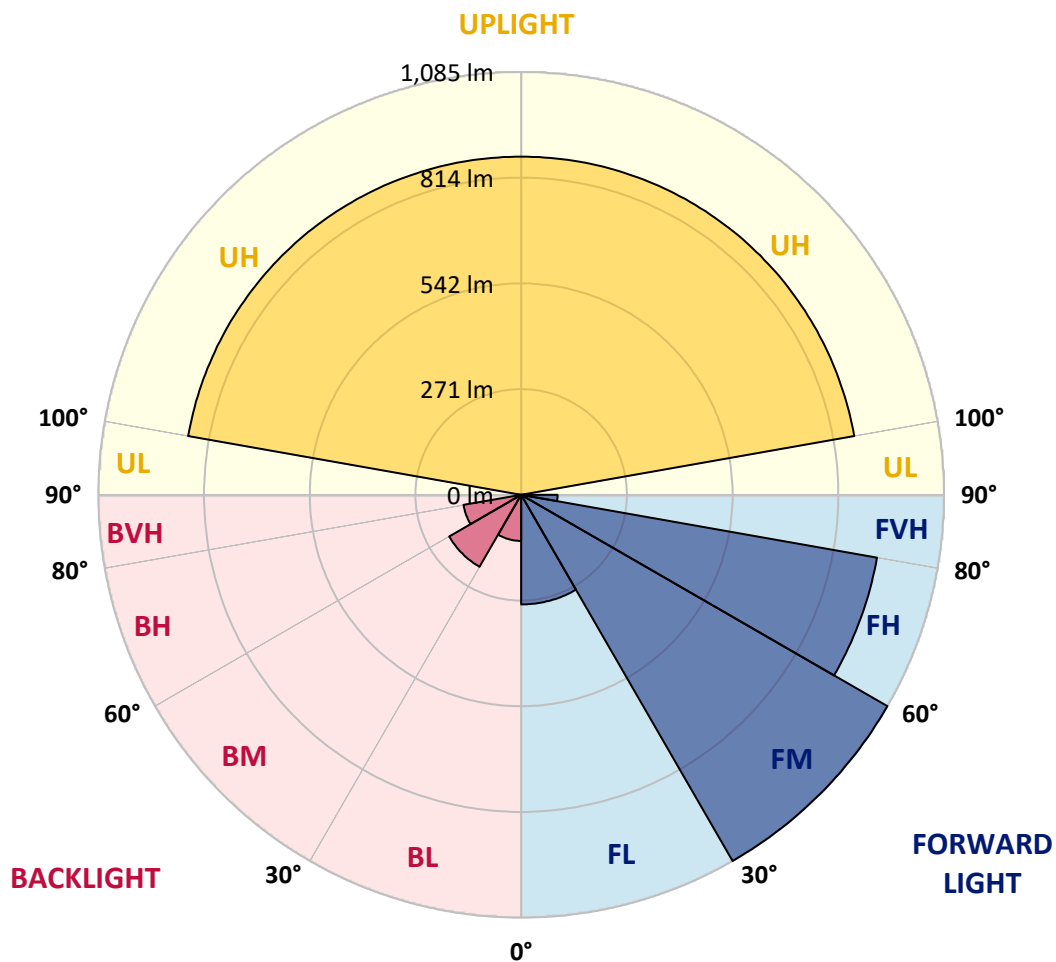
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	281.2	6.1			
FM (30°-60°)	1084.8	23.5			
FH (60°-80°)	926.9	20.1			G1/1800
FVH (80°-90°)	93.3	2.0			G1/100
BL (0°-30°)	118.2	2.6	B1/500		
BM (30°-60°)	213.3	4.6	B0/220		
BH (60°-80°)	150.2	3.3	B1/500		G1/500
BVH (80°-90°)	12.7	0.3			G1/100
UL (90°-100°)	9.4	0.2		U1/10	
UH (100°-180°)	867.6	18.8		U4/1000	

BUG Rating: B1-U5-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4
2.5°	984.8	979.0	971.7	959.1	948.0	932.0	928.1	908.2	895.6	898.5	875.8
5°	924.7	921.3	903.4	875.3	856.9	820.5	799.7	789.0	759.0	755.1	746.8
7.5°	840.4	830.2	801.1	766.2	734.7	708.1	674.6	648.9	626.2	612.1	587.4
10°	768.2	757.5	726.0	683.4	645.6	608.2	581.1	547.7	515.2	490.0	470.1
12.5°	733.3	721.6	684.8	635.4	593.2	546.7	508.4	475.4	457.5	444.9	428.4
15°	746.8	729.9	685.8	626.7	574.3	524.9	484.2	448.8	427.5	408.1	388.7
17.5°	801.6	780.8	730.4	659.1	586.4	522.5	464.3	424.1	390.1	361.1	334.9
20°	895.6	880.1	806.9	707.1	612.6	523.9	447.3	394.5	353.3	316.5	281.6
22.5°	1005.6	982.4	910.7	772.0	646.0	532.6	436.7	369.8	320.8	271.4	233.6
25°	1121.0	1103.1	1008.1	859.3	697.4	550.6	428.4	348.0	282.6	227.8	186.1
27.5°	1214.0	1198.1	1104.0	943.1	744.4	566.1	416.3	327.1	252.0	186.1	140.1
30°	1290.1	1276.6	1178.2	1011.9	801.6	571.4	399.4	302.9	218.1	150.2	115.8
32.5°	1375.4	1360.4	1249.4	1059.9	827.3	566.6	380.0	280.1	191.0	132.8	99.4
35°	1469.0	1451.5	1328.9	1111.8	848.6	549.6	363.5	263.6	177.9	120.7	88.2
37.5°	1552.3	1541.2	1400.6	1163.2	872.9	521.5	347.5	245.7	169.1	112.0	79.5
40°	1617.3	1614.4	1480.1	1205.8	891.8	501.1	334.4	231.7	158.0	108.6	76.6
42.5°	1669.6	1668.7	1545.1	1244.1	896.6	483.2	324.2	219.1	147.8	100.3	78.0
45°	1720.0	1719.5	1608.1	1297.4	900.0	484.2	316.5	211.3	139.1	95.0	73.7
47.5°	1768.0	1775.3	1674.0	1371.6	935.9	500.6	313.6	204.0	132.3	89.2	69.8
50°	1848.5	1841.2	1778.2	1471.9	993.5	532.6	308.7	197.7	126.0	83.8	65.9
52.5°	2001.1	1992.9	1936.7	1606.1	1056.5	565.6	302.4	189.0	118.7	78.0	61.6
55°	2187.7	2198.9	2120.8	1769.5	1142.3	593.2	295.6	177.4	109.0	71.2	58.6
57.5°	2297.2	2288.0	2198.9	1863.5	1195.1	607.3	291.3	163.8	94.0	65.4	55.7
59°	2322.9	2307.4	2185.8	1879.5	1209.2	600.5	288.9	150.7	86.3	62.5	54.3
60°	2320.5	2301.6	2164.9	1869.3	1213.1	592.2	285.0	143.0	81.9	61.1	53.8
62.5°	2270.6	2241.0	2046.7	1746.2	1158.8	551.0	269.0	124.6	76.1	59.1	50.9
65°	2157.2	2115.5	1848.0	1505.8	1034.2	469.1	232.6	117.8	77.5	58.2	48.9
67.5°	1961.4	1927.9	1592.6	1246.0	824.4	379.0	201.1	114.9	79.5	59.1	46.0
70°	1595.5	1566.9	1242.6	933.0	617.4	301.5	182.7	113.4	78.0	56.7	43.6
72.5°	1125.4	1075.9	825.8	653.3	391.6	242.3	158.5	107.1	76.1	54.8	39.7
75°	684.8	694.0	524.9	475.9	247.2	166.2	124.6	90.1	67.4	48.9	35.9
77.5°	451.7	451.2	387.2	335.9	125.5	103.2	88.2	69.3	52.8	40.2	31.0
80°	306.3	309.7	281.1	229.2	69.8	62.0	57.7	50.4	38.8	30.5	25.7
82.5°	188.5	189.0	217.6	171.6	46.5	39.3	36.8	33.9	27.6	23.7	19.9
85°	65.4	66.9	76.1	121.2	31.5	25.7	25.7	23.7	20.8	16.0	13.1
87.5°	28.1	27.6	33.0	33.0	15.5	13.1	12.1	12.1	11.6	8.7	7.3
90°	6.9	6.5	6.5	7.9	9.4	10.9	10.9	11.4	11.4	10.4	8.9
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°	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4
2.5°	869.0	863.6	848.6	844.7	849.6	839.9	837.5	835.1	817.1	826.3	815.7
5°	726.5	725.0	694.5	700.8	694.5	683.8	679.5	689.7	671.7	675.6	678.0
7.5°	558.3	552.5	532.1	518.6	510.3	503.1	493.9	478.8	490.5	488.0	506.5
10°	453.1	440.5	427.9	409.0	398.4	388.2	377.5	371.7	358.2	356.7	350.4
12.5°	415.3	397.4	381.4	364.9	353.8	333.4	316.5	305.8	297.1	283.5	273.3
15°	364.9	349.9	329.1	313.1	295.6	277.2	260.7	247.2	240.9	228.3	222.5
17.5°	314.1	291.3	266.1	250.1	225.8	206.9	193.4	184.7	175.4	167.7	160.9
20°	253.0	223.4	196.3	175.9	157.0	138.6	132.3	121.6	117.8	114.9	117.3
22.5°	192.4	161.9	133.8	118.3	108.1	103.2	97.9	96.0	94.5	94.0	95.0
25°	141.0	115.3	101.8	96.0	92.1	89.2	87.2	85.8	84.8	84.3	84.8
27.5°	109.0	95.5	88.7	84.8	81.9	80.0	79.0	77.5	77.1	76.6	77.1
30°	94.5	87.2	82.4	78.5	75.1	71.7	70.3	69.8	70.3	70.8	70.3
32.5°	82.4	77.1	71.7	68.3	65.9	64.0	64.0	63.0	63.0	64.5	64.9
35°	74.6	69.3	65.4	61.1	58.2	56.2	54.8	53.8	54.3	54.3	55.7
37.5°	68.3	64.5	61.1	57.2	54.3	52.3	51.4	50.4	49.9	49.4	49.4
40°	64.0	61.6	58.6	54.8	51.9	49.9	48.9	48.0	47.5	47.0	47.0
42.5°	64.0	59.1	57.2	53.8	50.4	48.5	47.0	46.0	45.1	45.1	45.1
45°	70.3	60.6	57.2	53.3	49.9	47.5	46.0	44.6	43.6	43.6	43.1
47.5°	68.3	67.9	58.2	53.3	50.4	47.5	45.6	44.1	43.1	42.6	42.2
50°	64.9	70.8	64.9	54.8	50.4	47.0	45.1	43.6	42.2	41.7	41.7
52.5°	63.0	65.9	67.4	56.7	50.9	47.0	44.6	43.1	42.2	41.2	40.7
55°	58.2	62.0	64.5	55.7	50.9	46.0	43.6	42.2	40.7	40.2	39.7
57.5°	53.3	56.2	62.0	55.7	49.4	45.6	42.6	40.7	39.7	39.3	38.8
59°	51.9	51.9	55.3	57.2	48.5	45.1	42.2	40.2	39.3	38.8	37.8
60°	50.4	50.4	52.3	58.6	48.0	44.6	41.7	39.7	38.3	38.3	37.8
62.5°	48.5	47.0	48.0	54.8	46.5	43.6	40.7	38.8	37.3	37.3	36.8
65°	46.0	44.1	44.1	45.6	43.6	41.7	39.7	37.8	35.9	35.9	36.3
67.5°	43.6	41.7	41.2	41.2	40.2	39.7	37.8	35.9	34.9	34.9	34.9
70°	40.2	38.8	38.3	37.3	37.3	36.8	35.4	33.9	33.0	33.4	33.0
72.5°	36.3	35.4	34.4	34.4	33.9	33.4	32.0	31.0	30.5	31.0	31.0
75°	32.5	31.0	31.0	30.0	30.0	29.6	28.1	27.6	27.1	27.6	28.1
77.5°	27.6	26.7	26.2	26.2	26.2	26.2	24.2	23.7	23.7	24.7	24.7
80°	22.8	22.3	21.8	21.8	21.8	21.3	20.4	19.9	19.9	20.4	20.8
82.5°	17.4	16.5	16.5	17.0	17.4	17.4	16.0	15.0	15.0	16.0	17.0
85°	11.6	11.6	11.6	12.1	12.1	12.6	11.6	10.2	10.7	11.1	12.6
87.5°	6.3	6.8	6.3	5.8	6.8	6.3	6.3	5.8	6.3	6.8	7.3
90°	8.9	8.9	9.5	10.0	9.5	10.0	9.0	8.5	7.5	7.5	9.0
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: P227276

CATALOG NUMBER: ISW-AF-600-LED-E1-SLR-8030-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: P227276

CATALOG NUMBER: ISW-AF-600-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4
2.5°	825.4	817.1	812.8	829.7	828.3	813.7	813.7	823.9	824.4	815.7	825.8
5°	680.9	672.7	680.4	673.7	677.5	677.1	682.9	672.2	676.6	672.7	663.5
7.5°	505.0	521.5	530.2	519.1	533.1	540.4	530.2	540.4	524.4	511.3	523.9
10°	347.5	365.9	362.5	380.5	387.2	391.1	398.4	389.2	378.0	374.6	365.4
12.5°	269.5	265.6	264.1	271.4	275.8	269.5	274.8	269.0	263.2	253.0	252.5
15°	210.8	204.5	200.2	191.9	189.0	190.5	192.9	192.9	181.3	181.7	186.1
17.5°	159.9	158.5	155.1	148.3	143.9	145.4	144.9	142.5	141.0	142.0	147.3
20°	120.2	118.7	120.7	122.6	121.2	121.6	119.7	117.3	116.3	117.3	118.3
22.5°	95.0	96.9	99.4	102.3	102.7	105.2	104.7	105.2	103.2	102.3	99.8
25°	86.8	87.7	86.3	86.8	86.8	89.2	88.7	88.7	86.8	86.3	86.8
27.5°	76.6	76.1	76.1	77.1	77.1	78.5	79.5	78.5	76.6	76.1	76.6
30°	70.8	70.3	69.8	70.3	69.8	70.3	71.2	71.2	70.3	68.8	69.3
32.5°	64.9	64.9	64.5	64.9	64.5	64.5	65.4	64.0	64.0	63.5	63.5
35°	57.2	58.2	59.1	59.6	59.6	59.6	60.6	59.1	58.6	58.2	58.2
37.5°	49.4	50.4	53.3	54.8	55.3	56.2	56.7	55.7	54.8	53.8	52.8
40°	47.0	47.0	48.0	49.9	51.9	52.3	53.3	51.9	51.4	49.9	48.5
42.5°	45.1	45.6	45.6	46.0	46.5	47.5	48.9	47.5	46.5	45.6	44.1
45°	43.6	43.6	43.6	43.6	43.1	43.1	43.6	42.6	42.2	41.7	41.7
47.5°	42.6	42.2	41.7	41.2	40.7	40.2	40.2	39.3	39.3	39.3	39.3
50°	41.7	40.7	40.2	39.7	38.8	38.8	38.8	37.8	37.3	37.3	37.8
52.5°	40.2	39.7	39.3	38.8	38.3	37.8	37.8	36.8	36.3	36.3	36.3
55°	39.7	39.3	38.3	37.8	37.3	37.8	37.3	36.8	35.9	35.9	35.9
57.5°	38.3	38.8	38.3	37.3	37.3	37.3	37.3	36.3	35.9	34.9	35.4
59°	37.8	38.3	37.8	37.3	36.8	37.3	37.3	35.9	35.4	34.9	34.9
60°	37.3	37.8	37.3	36.8	36.8	37.3	36.8	36.3	35.4	33.9	34.4
62.5°	36.8	36.8	36.3	36.3	35.9	36.3	35.9	34.9	33.9	33.0	32.5
65°	35.9	35.9	35.4	35.4	34.9	34.9	34.9	33.9	33.0	32.0	32.0
67.5°	35.4	34.9	34.4	34.4	33.9	33.9	33.9	33.0	31.5	31.0	30.5
70°	33.4	33.0	33.0	32.5	32.0	32.5	33.0	31.5	30.0	29.1	28.6
72.5°	31.5	31.0	31.0	30.5	30.5	31.0	31.5	30.0	28.1	27.1	26.7
75°	28.6	28.1	28.1	28.1	28.1	29.1	29.1	27.6	26.2	24.7	23.7
77.5°	24.7	25.2	25.2	25.2	25.2	26.2	26.2	25.2	23.7	22.8	21.3
80°	21.3	21.3	21.8	21.8	22.3	22.3	21.8	21.3	20.8	19.9	17.9
82.5°	17.9	17.9	17.9	17.9	17.9	17.4	16.5	17.4	17.4	16.5	15.0
85°	14.1	14.1	14.1	14.5	14.5	13.1	11.6	11.6	13.1	12.6	11.6
87.5°	8.2	8.2	8.7	10.2	9.2	8.7	7.3	7.8	7.3	8.2	6.8
90°	10.9	10.5	10.5	8.5	8.0	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: P227276
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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°
951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	110°	80.5
826.8	828.8	833.1	831.7	847.7	842.8	854.0	869.0	883.0	876.2	878.2	112.5°	113.5
680.0	682.4	664.0	675.1	691.6	684.8	682.4	704.7	699.3	724.6	703.7	115°	153.0
503.6	497.7	489.0	484.7	472.5	472.5	495.3	505.5	504.0	521.5	539.4	117.5°	193.0
353.8	347.0	336.3	333.4	345.6	351.4	361.5	371.7	385.3	405.2	416.8	120°	229.5
259.8	257.3	259.8	267.0	278.2	286.4	301.9	319.9	334.9	350.9	366.4	122.5°	264.0
196.3	201.1	207.4	212.3	221.0	236.5	244.7	264.6	278.2	292.2	310.2	125°	297.5
152.7	155.6	157.0	159.0	166.2	177.4	177.4	197.7	215.7	234.1	249.1	127.5°	331.0
116.3	116.3	111.5	114.4	115.3	114.4	120.2	131.8	143.5	155.6	179.3	130°	364.0
97.4	94.5	93.1	92.6	93.1	95.0	98.4	102.7	104.7	110.0	119.2	132.5°	397.0
86.3	85.8	84.3	84.3	85.3	85.8	89.2	93.1	94.0	95.5	98.9	135°	429.0
76.1	77.1	78.5	78.0	78.5	79.5	81.9	85.3	87.2	87.7	90.1	137.5°	459.5
68.8	69.8	70.3	71.7	71.7	72.2	74.2	77.5	79.0	81.4	83.8	140°	488.0
64.0	64.5	64.9	64.5	64.9	64.9	67.4	70.8	72.7	74.2	75.6	142.5°	517.5
58.6	58.2	58.2	58.2	56.7	56.2	57.2	60.6	61.1	62.5	65.9	145°	545.5
52.3	50.9	49.9	49.9	49.9	50.4	52.8	56.2	56.7	58.2	61.1	147.5°	572.5
46.5	46.0	46.0	46.5	47.0	48.0	49.9	53.3	53.8	55.3	57.7	150°	593.0
43.6	43.6	43.6	44.1	44.6	45.1	47.5	50.9	51.9	53.3	56.2	152.5°	608.5
41.7	42.2	41.7	41.7	42.2	43.1	45.6	49.4	50.9	52.3	55.3	155°	626.0
40.2	40.2	40.2	40.7	40.7	41.7	44.6	48.5	49.4	51.4	55.7	157.5°	643.5
38.3	39.3	38.8	39.3	39.7	40.7	43.6	47.5	48.9	51.9	56.7	160°	657.5
37.3	37.3	37.3	37.8	38.8	39.3	41.7	46.0	48.0	51.9	59.6	162.5°	667.0
36.8	35.9	35.9	36.3	37.3	38.3	40.7	45.1	47.5	51.4	59.1	165°	676.0
36.3	34.9	34.4	34.9	35.9	36.3	39.3	43.6	47.0	49.9	57.2	167.5°	685.0
34.9	33.9	33.4	33.9	34.9	35.9	38.3	42.6	45.1	48.9	54.8	170°	692.0
34.4	33.0	33.0	33.4	34.4	34.9	37.3	41.7	44.1	49.4	56.2	172.5°	694.0
32.5	32.0	32.0	32.5	32.5	33.4	36.3	40.7	42.6	50.4	47.0	175°	696.0
31.0	31.0	31.0	31.0	31.5	32.0	35.4	39.7	40.7	43.6	40.2	177.5°	699.5
30.0	30.0	30.0	30.0	30.0	31.0	33.9	38.3	38.8	38.3	36.8	180°	700.0
28.1	28.1	28.1	28.1	28.6	29.1	32.0	35.9	35.9	34.9	34.9		
26.7	26.2	26.2	26.2	26.2	26.7	29.6	33.4	33.0	32.5	32.5		
23.7	23.7	23.7	23.7	23.7	23.7	26.7	30.5	30.0	29.6	29.1		
20.8	20.8	21.3	20.8	20.4	19.9	22.8	27.1	27.1	26.7	26.2		
17.9	17.4	17.9	17.4	16.5	16.5	18.9	22.8	23.3	22.8	21.8		
14.5	14.1	14.1	14.1	12.1	12.1	14.5	18.4	18.4	17.9	17.0		
11.1	10.7	10.2	9.7	8.2	8.2	10.2	13.6	14.1	12.1	11.6		
5.8	5.8	5.8	4.4	3.9	3.4	5.3	8.2	8.2	6.8	5.8		
7.5	7.0	6.0	5.0	5.0	5.0	6.0	7.5	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		

227276
 ISW-AF-600-LED-E1-SLR-8030-ULG

REPORT NUMBER: P227276
 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°	951.4	951.4
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	890.3	894.7
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	719.2	736.2
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	543.8	566.6
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	435.7	451.2
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	382.4	404.7
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	328.1	352.3
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	269.0	298.5
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	205.5	234.6
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	144.4	169.1
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	105.2	116.3
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	93.5	97.9
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	87.7	90.6
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	79.0	81.9
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	69.3	73.2
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	64.5	67.4
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	61.6	62.0
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	59.1	59.1
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	57.7	59.1
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	58.6	64.9
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	65.9	64.0
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	67.4	60.1
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	61.6	57.7
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	55.3	50.4
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	49.4	46.5
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	46.0	45.1
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	42.2	43.1
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	39.3	41.2
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	37.8	39.3
										70°	35.4	36.3
										72.5°	33.0	33.4
										75°	29.6	30.0
										77.5°	26.2	26.2
										80°	21.3	21.3
										82.5°	16.5	16.0
										85°	10.7	10.2
										87.5°	4.8	3.9
										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°
951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	951.4	110°	102.0	108.0	114.0
916.5	930.0	940.7	938.8	961.5	975.1	977.1	991.1	1004.7	112.5°	134.0	138.5	143.0
749.8	768.7	787.1	800.6	836.5	866.1	888.8	913.1	941.7	115°	168.0	171.0	174.0
597.6	613.6	643.6	665.4	703.2	737.6	771.1	809.4	841.8	117.5°	202.0	203.5	205.0
468.2	488.5	516.6	557.3	591.3	630.5	672.7	709.0	763.3	120°	237.0	240.0	243.0
420.7	433.3	456.5	475.9	518.1	559.8	607.3	657.2	707.1	122.5°	271.0	274.0	277.0
371.7	394.0	415.8	443.9	480.8	526.3	577.7	631.5	687.7	125°	305.0	307.5	310.0
324.2	353.8	377.5	408.1	449.3	506.9	573.8	640.7	706.6	127.5°	339.0	339.5	340.0
266.1	293.7	335.4	366.4	420.2	492.4	578.2	670.8	759.9	130°	370.0	371.0	372.0
209.4	238.9	286.4	332.5	391.6	484.7	595.6	720.2	839.4	132.5°	404.0	404.5	405.0
149.8	190.0	237.0	295.2	366.9	479.8	619.4	781.3	941.7	135°	435.0	436.0	437.0
112.0	140.1	197.3	260.7	339.3	471.1	644.6	838.0	1011.5	137.5°	464.0	466.0	468.0
99.8	119.7	157.0	223.9	305.3	454.1	663.5	891.8	1075.0	140°	491.0	494.0	497.0
87.2	102.7	132.3	189.0	274.8	427.9	671.7	920.4	1119.1	142.5°	521.0	523.0	525.0
76.6	91.1	121.2	175.4	259.3	398.4	670.3	948.9	1174.3	145°	550.0	550.5	551.0
69.8	82.4	116.3	172.1	247.2	371.2	671.7	995.0	1256.2	147.5°	574.0	574.5	575.0
64.5	79.0	112.4	164.8	241.4	356.2	677.5	1035.7	1326.5	150°	593.0	593.0	593.0
64.5	78.0	102.7	154.6	238.4	357.7	680.0	1067.2	1378.8	152.5°	610.0	610.0	610.0
67.9	73.2	95.5	148.8	240.4	368.3	677.1	1099.2	1429.7	155°	630.0	629.0	628.0
64.5	68.3	90.6	147.8	240.4	376.1	685.8	1138.9	1496.6	157.5°	646.0	645.5	645.0
61.1	63.5	89.2	146.4	235.5	383.4	721.6	1213.1	1583.8	160°	655.0	655.0	655.0
56.7	59.6	87.2	143.9	230.2	392.6	785.1	1337.6	1728.3	162.5°	661.0	662.0	663.0
51.4	57.2	84.3	140.1	226.8	409.0	850.1	1463.6	1900.3	165°	673.0	673.0	673.0
49.4	54.8	77.5	130.9	223.4	427.0	919.4	1584.3	2054.9	167.5°	688.0	686.5	685.0
48.0	52.8	71.7	124.1	220.5	435.7	940.2	1630.4	2114.5	170°	693.0	692.0	691.0
47.0	51.9	68.3	118.3	217.1	436.2	955.2	1647.8	2123.3	172.5°	690.0	690.0	690.0
45.6	49.9	61.6	106.1	206.5	435.7	956.7	1659.0	2098.0	175°	691.0	690.5	690.0
43.1	48.0	62.0	99.8	187.1	415.3	896.6	1605.2	1997.7	177.5°	697.0	696.0	695.0
41.2	46.5	65.4	101.3	166.7	363.0	784.2	1438.0	1783.0	180°	700.0	700.0	700.0
38.3	45.6	68.3	104.7	160.9	301.5	593.2	1174.3	1493.2				
35.4	45.1	70.8	107.1	154.6	248.1	411.0	832.6	1117.6				
32.0	41.2	64.5	91.1	127.9	180.3	264.6	544.7	770.6				
27.6	33.0	47.0	64.0	94.0	126.0	156.5	329.1	504.0				
22.8	24.7	33.4	41.2	62.5	74.6	86.8	185.6	352.3				
17.0	17.4	22.8	26.2	35.4	41.2	51.9	113.9	285.5				
9.7	11.1	15.5	17.4	21.3	26.2	33.9	72.7	223.9				
3.9	4.8	9.2	10.2	11.6	14.5	18.9	42.2	69.8				
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°	951.4	951.4	951.4	951.4
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	1018.2	1028.4	1037.2	1043.9
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	972.2	996.0	1024.6	1048.8
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	890.3	920.4	966.9	995.5
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	812.8	856.9	907.7	948.9
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	759.9	814.7	863.2	909.2
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	745.4	801.1	844.7	886.9
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	774.5	830.2	867.5	893.2
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	842.8	902.4	926.2	924.2
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	936.3	998.9	998.9	979.5
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	1059.9	1105.0	1080.3	1043.5
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	1147.7	1189.8	1146.7	1086.1
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	1220.3	1251.4	1196.6	1123.4
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	1284.3	1307.1	1234.9	1162.7
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	1360.9	1369.1	1274.6	1197.6
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	1445.7	1452.5	1331.8	1235.9
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	1545.5	1521.3	1374.0	1271.2
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	1607.1	1567.4	1404.5	1289.7
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	1655.6	1601.3	1418.6	1300.3
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	1715.2	1651.2	1443.3	1319.7
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	1793.7	1720.5	1505.8	1374.5
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	1954.6	1864.0	1618.2	1469.9
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	2139.7	2053.9	1798.1	1627.5
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	2288.0	2230.4	1958.5	1769.9
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	2342.8	2318.1	2071.9	1890.6
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	2363.2	2384.5	2132.0	1964.3
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	2377.2	2469.8	2327.3	2184.3
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	2348.1	2483.8	2406.3	2318.6
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	2221.6	2384.0	2369.0	2291.9
								70°	1962.8	2143.6	2195.9	2086.4
								72.5°	1476.7	1701.1	1986.6	1815.0
								75°	962.0	1169.5	1696.3	1554.8
								77.5°	602.4	729.9	1210.2	1089.0
								80°	400.8	469.1	768.2	699.3
								82.5°	301.5	332.5	528.3	496.8
								85°	159.0	202.6	411.0	521.0
								87.5°	59.6	66.4	309.2	465.7
								90°	7.0	7.0	8.5	9.0
								92.5°	6.0	6.0	6.0	6.0
								95°	7.0	7.0	7.0	7.0
								97.5°	8.0	8.0	8.5	9.0
								100°	19.0	19.0	21.0	23.0
								102.5°	38.0	39.0	40.5	42.0
								105°	61.0	61.0	63.0	65.0
								107.5°	86.0	87.0	88.5	90.0



REPORT NUMBER: P227276

CATALOG NUMBER: ISW-AF-600-LED-E1-SLR-8030-ULG

ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
951.4	951.4	951.4	951.4	951.4	951.4	951.4	110°	117.0	116.0	117.5	119.0	120.0
1049.8	1058.5	1063.8	1059.9	1066.2	1067.7	1060.9	112.5°	147.0	147.0	148.0	149.0	149.5
1069.1	1093.4	1110.8	1122.9	1127.8	1132.1	1130.2	115°	178.0	177.0	178.0	179.0	180.5
1033.3	1070.6	1103.1	1125.4	1133.1	1138.9	1133.6	117.5°	209.0	208.0	209.0	210.0	212.5
993.5	1032.3	1062.8	1085.1	1084.6	1090.5	1080.3	120°	243.0	243.0	244.0	245.0	247.5
956.2	994.0	1021.2	1020.2	1013.4	996.4	993.5	122.5°	277.0	276.0	277.0	278.0	280.5
926.7	946.5	953.3	951.9	932.5	922.8	921.3	125°	310.0	310.0	310.0	310.0	312.5
912.1	911.1	895.6	878.7	860.3	859.3	846.7	127.5°	347.0	345.0	345.5	346.0	346.0
914.5	883.0	854.4	825.4	805.5	801.1	802.6	130°	380.0	379.0	380.0	381.0	381.0
945.1	889.3	835.5	806.0	782.7	775.9	778.8	132.5°	415.0	414.0	414.0	414.0	415.0
983.4	908.7	841.8	796.8	777.9	769.6	771.1	135°	451.0	450.0	448.5	447.0	447.5
1009.0	931.0	862.7	806.9	781.3	773.5	778.3	137.5°	482.0	481.0	478.5	476.0	475.5
1042.0	961.5	890.8	833.1	794.8	784.6	788.0	140°	511.0	509.0	506.5	504.0	503.0
1074.5	994.5	930.5	865.1	818.6	799.7	805.0	142.5°	536.0	534.0	533.5	533.0	533.0
1109.4	1032.8	968.3	908.7	854.0	824.4	831.2	145°	560.0	558.0	559.5	561.0	561.5
1150.1	1077.4	1022.1	967.4	911.1	886.4	889.3	147.5°	585.0	583.0	584.5	586.0	585.5
1189.3	1121.0	1085.6	1044.9	1011.9	974.1	974.1	150°	610.0	606.0	604.5	603.0	601.5
1212.6	1177.7	1168.0	1156.4	1137.0	1109.8	1104.0	152.5°	628.0	623.0	620.5	618.0	616.0
1241.2	1245.1	1267.4	1290.6	1296.4	1269.8	1261.5	155°	641.0	638.0	637.0	636.0	633.5
1295.0	1335.7	1408.9	1472.4	1485.0	1506.8	1481.6	157.5°	655.0	650.0	650.0	650.0	649.0
1370.6	1445.7	1569.3	1673.0	1702.6	1704.5	1706.5	160°	666.0	660.0	660.5	661.0	662.5
1456.9	1564.5	1727.8	1851.4	1904.2	1918.2	1908.1	162.5°	674.0	668.0	669.0	670.0	670.5
1604.7	1702.1	1880.9	2014.2	2082.1	2115.0	2106.3	165°	682.0	678.0	679.0	680.0	678.5
1751.0	1872.2	2029.7	2161.1	2233.3	2270.1	2277.9	167.5°	694.0	688.0	688.0	688.0	686.0
1850.9	1964.3	2109.7	2230.8	2302.1	2346.2	2350.1	170°	701.0	696.0	695.0	694.0	691.5
1911.9	2015.7	2157.7	2264.3	2335.5	2372.8	2386.4	172.5°	701.0	696.0	695.0	694.0	693.0
2097.1	2116.0	2212.9	2283.2	2333.1	2350.1	2360.2	175°	699.0	694.0	695.0	696.0	695.5
2183.8	2104.8	2093.7	2137.3	2141.7	2130.5	2116.5	177.5°	702.0	698.0	699.5	701.0	700.0
2063.2	1878.5	1810.2	1804.4	1786.4	1779.2	1734.6	180°	700.0	700.0	700.0	700.0	700.0
1791.8	1525.7	1405.0	1339.6	1379.3	1377.9	1332.3						
1509.7	1238.8	1082.2	988.2	976.6	974.6	934.9						
1226.2	972.2	835.1	789.5	734.7	718.3	725.0						
884.0	694.0	664.9	699.8	704.2	691.6	682.9						
556.9	522.0	550.1	613.6	650.9	634.4	640.7						
464.3	411.0	412.9	479.8	505.0	508.9	495.8						
515.2	411.5	337.3	329.1	320.4	201.6	280.6						
464.3	318.4	187.6	154.6	95.0	54.8	56.7						
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°	951.4	951.4	951.4	951.4	951.4	951.4
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	1059.4	1050.2	1040.1	1026.5	1028.9	1012.4
182.0	180.5	179.0	176.5	174.0	171.0	5°	1115.2	1099.2	1077.4	1049.8	1024.1	991.1
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	1109.4	1083.7	1047.3	1005.6	971.7	924.2
250.0	248.0	246.0	244.5	243.0	240.0	10°	1059.4	1026.0	996.4	953.3	909.2	867.5
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	989.7	970.8	945.1	912.6	869.9	827.3
315.0	314.0	313.0	311.5	310.0	307.5	15°	913.6	915.0	899.5	890.8	869.5	835.5
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	851.0	865.6	873.8	887.4	889.8	873.3
381.0	379.0	377.0	374.5	372.0	371.0	20°	809.4	829.7	855.4	892.7	932.0	948.9
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	786.1	811.3	852.5	920.4	992.1	1035.2
448.0	445.5	443.0	440.0	437.0	436.0	25°	781.7	815.2	872.9	955.7	1048.8	1109.4
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	789.0	832.6	901.0	995.5	1087.1	1174.8
502.0	501.0	500.0	498.5	497.0	494.0	30°	812.3	863.2	937.8	1039.6	1134.6	1221.8
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	834.6	897.6	980.0	1079.3	1174.8	1261.5
562.0	559.0	556.0	553.5	551.0	550.5	35°	870.4	933.9	1018.2	1109.8	1202.4	1300.8
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	925.2	980.9	1048.3	1133.6	1230.0	1331.8
600.0	598.5	597.0	595.0	593.0	593.0	40°	1003.2	1040.1	1083.7	1151.0	1243.6	1352.7
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	1120.0	1127.8	1142.8	1177.7	1255.7	1376.9
631.0	628.5	626.0	627.0	628.0	629.0	45°	1270.8	1247.5	1234.4	1229.6	1282.9	1392.4
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	1445.7	1400.2	1347.8	1322.6	1335.2	1417.1
664.0	661.0	658.0	656.5	655.0	655.0	50°	1673.5	1599.3	1496.6	1423.9	1417.6	1489.8
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	1882.4	1785.5	1656.0	1570.3	1535.4	1625.5
677.0	674.5	672.0	672.5	673.0	673.0	55°	2079.6	2005.0	1858.6	1752.0	1739.9	1805.3
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	2252.7	2188.2	2068.5	1929.4	1934.2	1997.7
689.0	687.5	686.0	688.5	691.0	692.0	59°	2342.3	2288.5	2177.5	2036.0	2046.7	2133.9
692.0	690.5	689.0	689.5	690.0	690.0	60°	2374.3	2329.2	2223.6	2104.4	2117.9	2208.6
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	2371.9	2342.8	2266.2	2210.0	2279.3	2345.7
699.0	696.5	694.0	694.5	695.0	696.0	65°	2145.5	2101.4	2092.7	2191.1	2324.9	2388.8
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	1706.5	1727.3	1810.2	1979.3	2203.7	2296.8
						70°	1267.4	1304.2	1414.7	1627.0	1935.2	2096.1
						72.5°	932.0	968.8	1070.6	1303.2	1592.1	1734.6
						75°	731.3	742.5	815.7	998.4	1254.8	1371.6
						77.5°	675.6	642.2	612.1	710.0	846.2	946.5
						80°	629.1	565.6	494.8	524.4	557.3	664.0
						82.5°	488.5	446.4	391.1	428.9	444.4	447.8
						85°	285.9	254.4	322.3	456.5	451.7	395.5
						87.5°	100.8	130.9	147.3	253.0	305.8	264.6
						90°	8.0	9.5	12.4	12.3	14.3	8.4
						92.5°	6.0	6.0	6.0	5.5	5.0	4.5
						95°	7.0	7.0	7.0	6.5	6.0	5.5
						97.5°	9.0	8.5	8.0	8.0	8.0	7.5
						100°	12.0	11.0	10.0	9.5	9.0	8.5
						102.5°	27.0	22.5	18.0	15.5	13.0	12.0
						105°	48.0	42.0	36.0	31.5	27.0	24.5
						107.5°	73.0	65.5	58.0	53.5	49.0	45.5



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CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
951.4	951.4	951.4	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
999.3	985.8	984.8	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
964.9	934.4	924.7	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
883.0	847.7	840.4	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
814.2	775.0	768.2	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
778.8	741.5	733.3	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
792.4	751.2	746.8	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
843.3	799.7	801.6	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
930.5	902.4	895.6	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
1044.9	1014.4	1005.6	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
1142.3	1126.8	1121.0	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
1212.6	1219.9	1214.0	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
1268.8	1293.0	1290.1	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
1326.5	1373.5	1375.4	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
1369.1	1452.0	1469.0	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
1423.9	1534.9	1552.3	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
1465.6	1596.0	1617.3	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
1506.3	1646.4	1669.6	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
1539.7	1696.3	1720.0	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
1577.5	1744.7	1768.0	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
1645.4	1820.8	1848.5	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
1791.3	1961.9	2001.1	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
2002.1	2156.7	2187.7	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
2192.1	2289.0	2297.2	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
2270.1	2325.4	2322.9	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
2327.3	2334.1	2320.5	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
2358.3	2293.8	2270.6	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
2277.4	2187.7	2157.2	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
2043.8	1996.3	1961.4	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
1738.4	1618.2	1595.5								
1317.8	1159.3	1125.4								
920.8	730.9	684.8								
605.3	469.1	451.7								
392.6	311.6	306.3								
273.8	204.5	188.5								
168.2	68.3	65.4								
52.3	31.5	28.1								
6.5	6.9	6.9								
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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