

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: P227295

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-1000-LED-E1-SLR-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) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7117.6 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

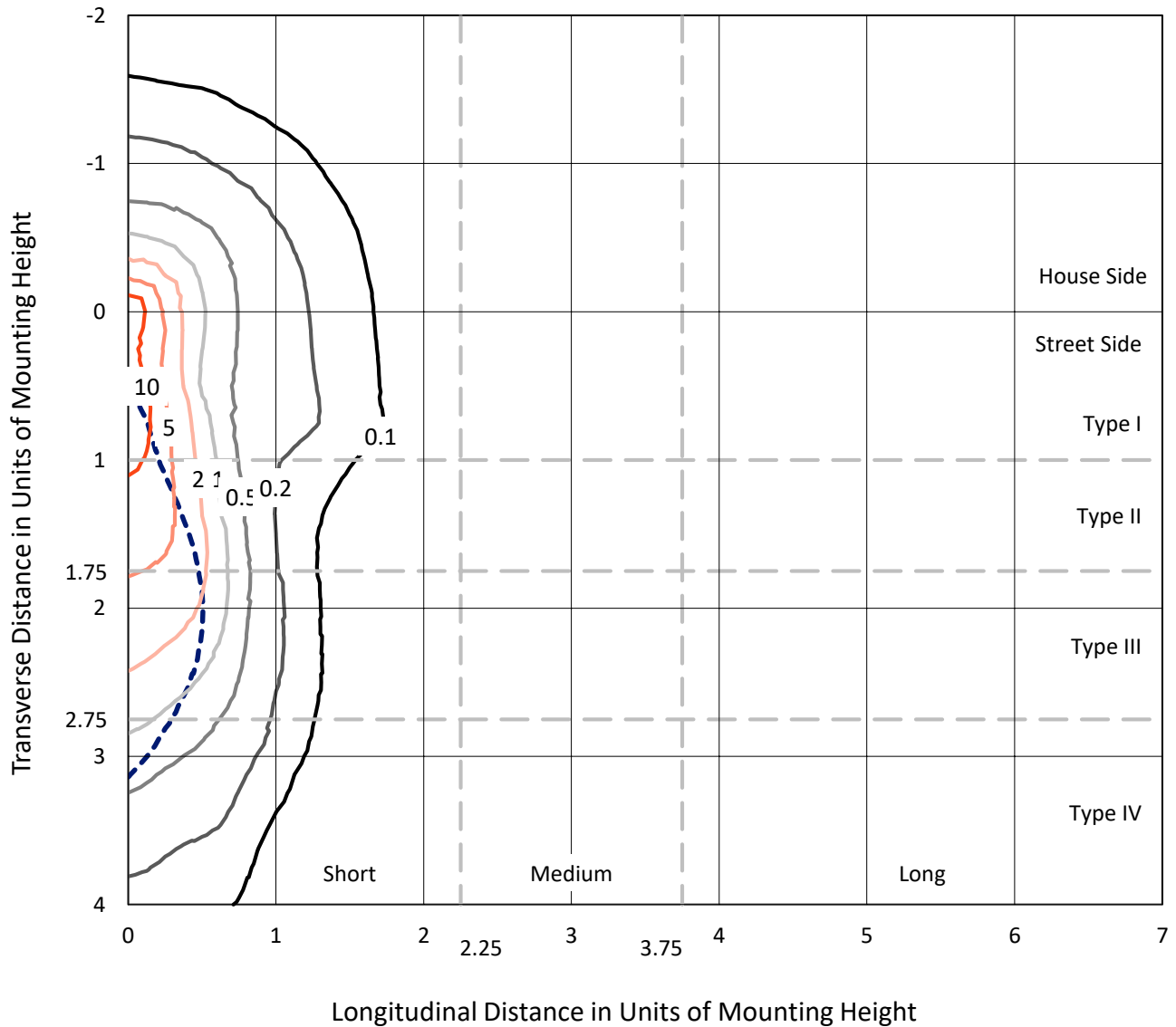
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

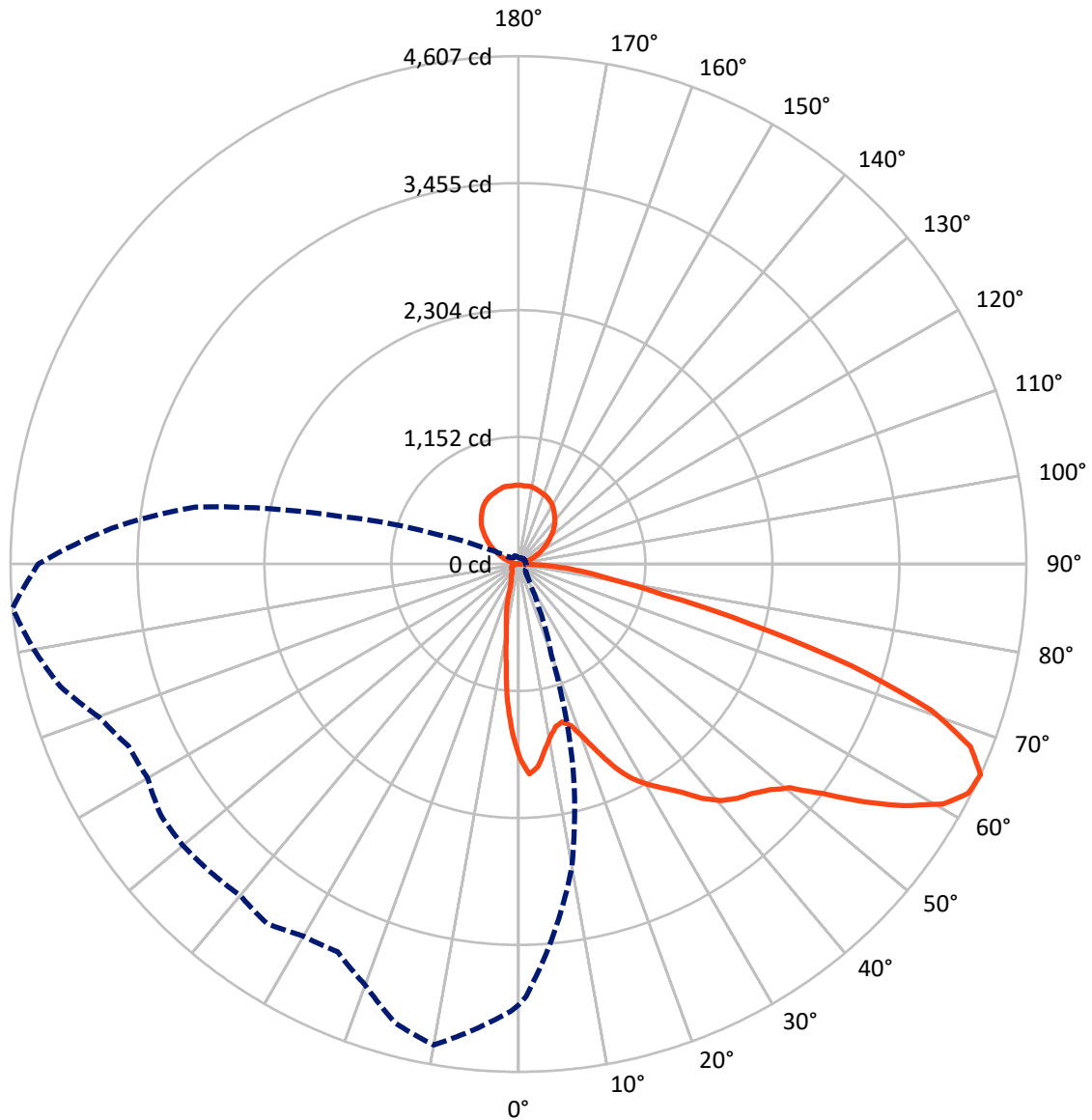
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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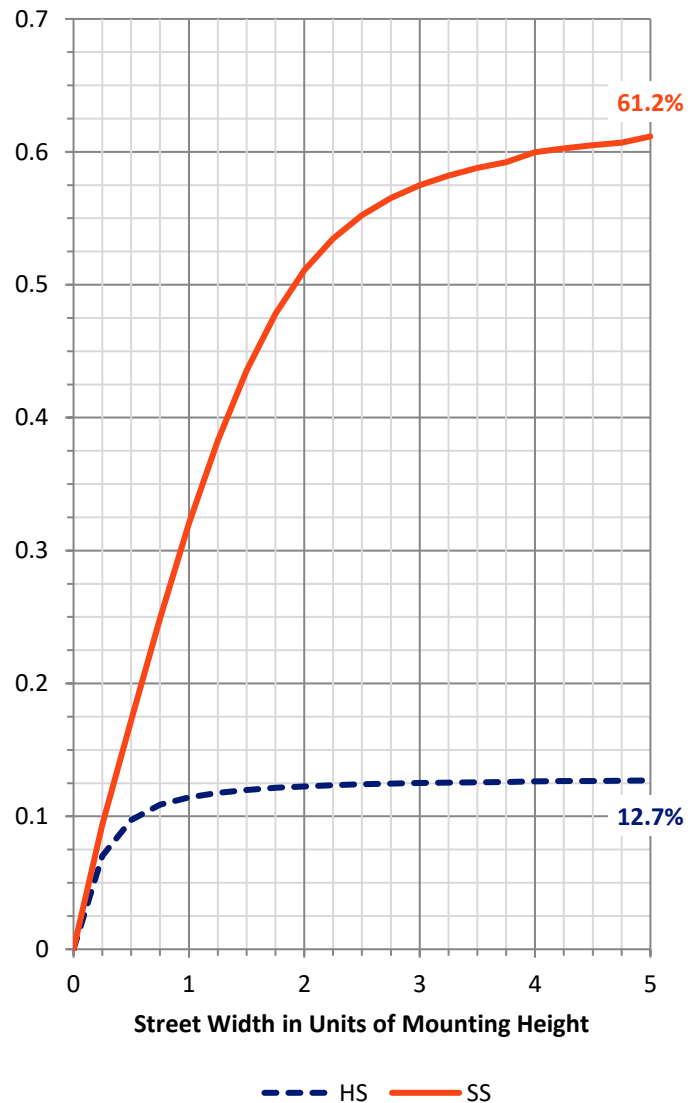
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	916.8	887.5	1804.3
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	4425.7	887.7	5313.3
	% Fixture	62.2	12.5	74.7
Total	Lumens	5342.4	1775.2	7117.6
	% Fixture	75.1	24.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	1.8
10°-20°	251.6	3.5
20°-30°	358.7	5.0
30°-40°	520.4	7.3
40°-50°	744.4	10.5
50°-60°	1143.0	16.1
60°-70°	1322.9	18.6
70°-80°	674.9	9.5
80°-90°	195.8	2.8
90°-100°	9.7	0.1
100°-110°	58.7	0.8
110°-120°	169.9	2.4
120°-130°	279.4	3.9
130°-140°	344.6	4.8
140°-150°	352.5	5.0
150°-160°	297.0	4.2
160°-170°	195.5	2.7
170°-180°	67.8	1.0
0°-90°	5342.4	75.1
0°-180°	7117.6	100.0



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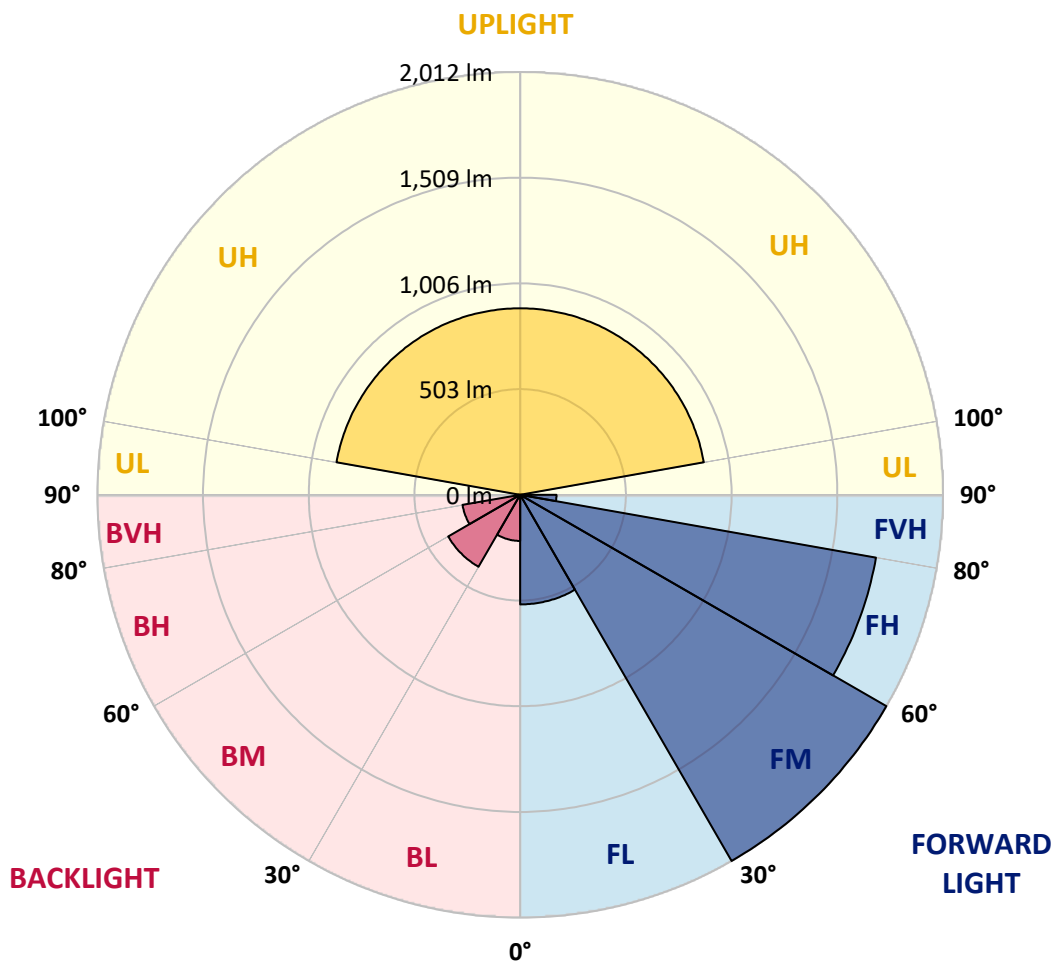
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	521.7	7.3			
FM	(30°-60°)	2012.1	28.3			
FH	(60°-80°)	1719.2	24.2			G1/1800
FVH	(80°-90°)	172.7	2.4			G2/225
BL	(0°-30°)	219.3	3.1	B1/500		
BM	(30°-60°)	395.6	5.6	B1/1000		
BH	(60°-80°)	278.7	3.9	B1/500		G1/500
BVH	(80°-90°)	23.2	0.3			G1/100
UL	(90°-100°)	9.7	0.1		U1/10	
UH	(100°-180°)	887.5	12.5		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°	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7
2.5°	1826.7	1815.9	1802.4	1779.0	1758.4	1728.7	1721.5	1684.7	1661.3	1666.7	1624.4
5°	1715.2	1708.9	1675.7	1623.5	1589.4	1521.9	1483.3	1463.5	1407.8	1400.6	1385.3
7.5°	1558.8	1540.0	1485.9	1421.3	1362.8	1313.4	1251.4	1203.7	1161.5	1135.4	1089.5
10°	1424.9	1405.0	1346.6	1267.5	1197.4	1128.2	1077.9	1015.8	955.6	908.9	872.0
12.5°	1360.1	1338.5	1270.2	1178.5	1100.3	1014.1	943.1	881.9	848.6	825.2	794.7
15°	1385.3	1353.9	1272.0	1162.4	1065.3	973.5	898.0	832.5	792.9	756.9	721.0
17.5°	1486.9	1448.2	1354.7	1222.6	1087.7	969.0	861.2	786.5	723.6	669.7	621.1
20°	1661.3	1632.5	1496.8	1311.6	1136.3	971.8	829.7	731.7	655.3	587.0	522.3
22.5°	1865.4	1822.2	1689.1	1432.0	1198.3	988.0	810.0	685.9	595.2	503.4	433.3
25°	2079.2	2046.0	1869.9	1593.9	1293.6	1021.2	794.7	645.5	524.1	422.5	345.2
27.5°	2251.9	2222.3	2047.8	1749.3	1380.8	1050.0	772.2	606.8	467.5	345.2	259.8
30°	2393.0	2367.8	2185.3	1877.0	1486.9	1059.9	740.7	561.8	404.6	278.7	214.8
32.5°	2551.2	2523.4	2317.5	1966.0	1534.5	1050.9	704.8	519.6	354.1	246.3	184.3
35°	2724.7	2692.4	2464.9	2062.2	1574.1	1019.4	674.2	489.1	329.9	223.8	163.6
37.5°	2879.4	2858.7	2598.0	2157.5	1619.0	967.3	644.6	455.7	313.7	207.7	147.4
40°	2999.8	2994.4	2745.4	2236.6	1654.1	929.6	620.3	429.7	293.1	201.3	142.0
42.5°	3096.9	3095.1	2865.9	2307.7	1663.1	896.3	601.4	406.3	274.2	186.1	144.7
45°	3190.4	3189.5	2982.7	2406.5	1669.4	898.0	587.0	392.0	258.0	176.2	136.7
47.5°	3279.4	3292.9	3105.0	2544.1	1735.8	928.6	581.6	378.5	245.4	165.4	129.4
50°	3428.6	3415.1	3298.3	2730.2	1842.8	988.0	572.6	366.7	233.7	155.5	122.2
52.5°	3711.8	3696.5	3592.2	2979.1	1959.8	1049.0	561.0	350.6	220.2	144.7	114.2
55°	4057.9	4078.6	3933.9	3282.1	2118.8	1100.3	548.4	329.0	202.2	132.2	108.7
57.5°	4261.1	4244.0	4078.6	3456.4	2216.8	1126.4	540.3	303.8	174.4	121.3	103.4
59°	4308.7	4279.9	4054.3	3486.1	2242.9	1113.8	535.8	279.6	160.0	116.0	100.7
60°	4304.2	4269.2	4015.7	3467.3	2250.1	1098.5	528.6	265.1	151.9	113.2	99.7
62.5°	4211.6	4156.8	3796.3	3239.0	2149.4	1022.1	498.9	231.0	141.2	109.7	94.4
65°	4001.3	3923.9	3427.7	2793.1	1918.3	870.2	431.5	218.4	143.8	107.9	90.8
67.5°	3638.1	3576.0	2954.0	2311.3	1529.1	703.0	373.1	213.1	147.4	109.7	85.4
70°	2959.4	2906.3	2304.9	1730.5	1145.3	559.1	338.9	210.3	144.7	105.2	80.9
72.5°	2087.4	1995.7	1531.9	1211.8	726.4	449.5	294.0	198.7	141.2	101.6	73.8
75°	1270.2	1287.3	973.5	882.8	458.5	308.3	231.0	167.3	125.0	90.8	66.5
77.5°	837.8	837.0	718.3	623.0	232.8	191.5	163.6	128.6	98.0	74.6	57.5
80°	568.1	574.4	521.4	425.2	129.4	115.1	107.0	93.5	71.9	56.7	47.7
82.5°	349.6	350.6	403.7	318.2	86.3	72.8	68.3	62.9	51.2	44.1	36.8
85°	121.3	124.1	141.2	224.7	58.4	47.7	47.7	44.1	38.7	29.7	24.2
87.5°	52.2	51.2	61.2	61.2	28.7	24.2	22.5	22.5	21.6	16.2	13.5
90°	8.7	7.8	7.8	9.7	11.7	14.0	13.6	14.5	14.5	13.1	10.7
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-1000-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°	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7
2.5°	1611.9	1601.9	1574.1	1566.9	1575.9	1557.9	1553.4	1549.0	1515.6	1532.7	1512.9
5°	1347.5	1344.9	1288.2	1299.9	1288.2	1268.5	1260.4	1279.2	1246.0	1253.1	1257.6
7.5°	1035.6	1024.8	987.0	961.9	946.6	933.1	916.1	888.1	909.7	905.2	939.4
10°	840.6	817.1	793.8	758.7	739.0	720.1	700.3	689.5	664.3	661.6	650.0
12.5°	770.4	737.1	707.5	676.9	656.2	618.5	587.0	567.2	551.1	525.9	507.0
15°	676.9	649.1	610.4	580.7	548.4	514.2	483.7	458.5	446.8	423.4	412.7
17.5°	582.6	540.3	493.6	463.9	418.9	383.8	358.6	342.5	325.4	311.1	298.5
20°	469.2	414.4	364.1	326.3	291.2	257.1	245.4	225.7	218.4	213.1	217.6
22.5°	356.9	300.2	248.1	219.3	200.5	191.5	181.6	178.0	175.3	174.4	176.2
25°	261.6	214.0	188.7	178.0	170.8	165.4	161.8	159.1	157.3	156.4	157.3
27.5°	202.2	177.1	164.5	157.3	151.9	148.3	146.5	143.8	142.9	142.0	142.9
30°	175.3	161.8	152.8	145.7	139.3	133.1	130.3	129.4	130.3	131.2	130.3
32.5°	152.8	142.9	133.1	126.7	122.2	118.7	118.7	116.8	116.8	119.6	120.5
35°	138.4	128.6	121.3	113.2	107.9	104.2	101.6	99.7	100.7	100.7	103.4
37.5°	126.7	119.6	113.2	106.1	100.7	97.1	95.3	93.5	92.6	91.7	91.7
40°	118.7	114.2	108.7	101.6	96.2	92.6	90.8	89.0	88.1	87.2	87.2
42.5°	118.7	109.7	106.1	99.7	93.5	89.9	87.2	85.4	83.6	83.6	83.6
45°	130.3	112.3	106.1	98.9	92.6	88.1	85.4	82.7	80.9	80.9	80.0
47.5°	126.7	125.8	107.9	98.9	93.5	88.1	84.5	81.8	80.0	79.1	78.3
50°	120.5	131.2	120.5	101.6	93.5	87.2	83.6	80.9	78.3	77.3	77.3
52.5°	116.8	122.2	125.0	105.2	94.4	87.2	82.7	80.0	78.3	76.4	75.5
55°	107.9	115.1	119.6	103.4	94.4	85.4	80.9	78.3	75.5	74.6	73.8
57.5°	98.9	104.2	115.1	103.4	91.7	84.5	79.1	75.5	73.8	72.8	71.9
59°	96.2	96.2	102.5	106.1	89.9	83.6	78.3	74.6	72.8	71.9	70.1
60°	93.5	93.5	97.1	108.7	89.0	82.7	77.3	73.8	71.0	71.0	70.1
62.5°	89.9	87.2	89.0	101.6	86.3	80.9	75.5	71.9	69.3	69.3	68.3
65°	85.4	81.8	81.8	84.5	80.9	77.3	73.8	70.1	66.5	66.5	67.4
67.5°	80.9	77.3	76.4	76.4	74.6	73.8	70.1	66.5	64.8	64.8	64.8
70°	74.6	71.9	71.0	69.3	69.3	68.3	65.7	62.9	61.2	62.0	61.2
72.5°	67.4	65.7	63.8	63.8	62.9	62.0	59.3	57.5	56.7	57.5	57.5
75°	60.3	57.5	57.5	55.8	55.8	54.8	52.2	51.2	50.3	51.2	52.2
77.5°	51.2	49.4	48.6	48.6	48.6	48.6	44.9	44.1	44.1	45.8	45.8
80°	42.2	41.3	40.4	40.4	40.4	39.6	37.7	36.8	36.8	37.7	38.7
82.5°	32.3	30.6	30.6	31.5	32.3	32.3	29.7	27.8	27.8	29.7	31.5
85°	21.6	21.6	21.6	22.5	22.5	23.3	21.6	18.9	19.7	20.7	23.3
87.5°	11.7	12.6	11.7	10.7	12.6	11.7	11.7	10.7	11.7	12.6	13.5
90°	10.7	10.7	10.8	11.0	10.1	11.0	10.0	9.8	8.1	8.1	10.0
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



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CATALOG NUMBER: ISW-AF-1000-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



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

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7
2.5°	1530.9	1515.6	1507.5	1539.0	1536.4	1509.4	1509.4	1528.2	1529.1	1512.9	1531.9
5°	1263.0	1247.8	1262.1	1249.5	1256.7	1255.9	1266.6	1246.9	1255.0	1247.8	1230.7
7.5°	936.7	967.3	983.5	962.8	988.9	1002.4	983.5	1002.4	972.7	948.4	971.8
10°	644.6	678.7	672.4	705.7	718.3	725.5	739.0	721.9	701.2	694.9	677.8
12.5°	499.8	492.7	489.9	503.4	511.5	499.8	509.7	498.9	488.2	469.2	468.3
15°	391.1	379.3	371.2	356.0	350.6	353.3	357.8	357.8	336.2	337.1	345.2
17.5°	296.7	294.0	287.7	275.1	267.0	269.6	268.8	264.3	261.6	263.4	273.3
20°	222.9	220.2	223.8	227.4	224.7	225.7	222.1	217.6	215.7	217.6	219.3
22.5°	176.2	179.8	184.3	189.7	190.6	195.1	194.2	195.1	191.5	189.7	185.2
25°	160.9	162.8	160.0	160.9	160.9	165.4	164.5	164.5	160.9	160.0	160.9
27.5°	142.0	141.2	141.2	142.9	142.9	145.7	147.4	145.7	142.0	141.2	142.0
30°	131.2	130.3	129.4	130.3	129.4	130.3	132.2	132.2	130.3	127.7	128.6
32.5°	120.5	120.5	119.6	120.5	119.6	119.6	121.3	118.7	118.7	117.7	117.7
35°	106.1	107.9	109.7	110.6	110.6	110.6	112.3	109.7	108.7	107.9	107.9
37.5°	91.7	93.5	98.9	101.6	102.5	104.2	105.2	103.4	101.6	99.7	98.0
40°	87.2	87.2	89.0	92.6	96.2	97.1	98.9	96.2	95.3	92.6	89.9
42.5°	83.6	84.5	84.5	85.4	86.3	88.1	90.8	88.1	86.3	84.5	81.8
45°	80.9	80.9	80.9	80.9	80.0	80.0	80.9	79.1	78.3	77.3	77.3
47.5°	79.1	78.3	77.3	76.4	75.5	74.6	74.6	72.8	72.8	72.8	72.8
50°	77.3	75.5	74.6	73.8	71.9	71.9	71.9	70.1	69.3	69.3	70.1
52.5°	74.6	73.8	72.8	71.9	71.0	70.1	70.1	68.3	67.4	67.4	67.4
55°	73.8	72.8	71.0	70.1	69.3	70.1	69.3	68.3	66.5	66.5	66.5
57.5°	71.0	71.9	71.0	69.3	69.3	69.3	69.3	67.4	66.5	64.8	65.7
59°	70.1	71.0	70.1	69.3	68.3	69.3	69.3	66.5	65.7	64.8	64.8
60°	69.3	70.1	69.3	68.3	68.3	69.3	68.3	67.4	65.7	62.9	63.8
62.5°	68.3	68.3	67.4	67.4	66.5	67.4	66.5	64.8	62.9	61.2	60.3
65°	66.5	66.5	65.7	65.7	64.8	64.8	64.8	62.9	61.2	59.3	59.3
67.5°	65.7	64.8	63.8	63.8	62.9	62.9	62.9	61.2	58.4	57.5	56.7
70°	62.0	61.2	61.2	60.3	59.3	60.3	61.2	58.4	55.8	53.9	53.0
72.5°	58.4	57.5	57.5	56.7	56.7	57.5	58.4	55.8	52.2	50.3	49.4
75°	53.0	52.2	52.2	52.2	52.2	53.9	53.9	51.2	48.6	45.8	44.1
77.5°	45.8	46.7	46.7	46.7	46.7	48.6	48.6	46.7	44.1	42.2	39.6
80°	39.6	39.6	40.4	40.4	41.3	41.3	40.4	39.6	38.7	36.8	33.2
82.5°	33.2	33.2	33.2	33.2	33.2	32.3	30.6	32.3	32.3	30.6	27.8
85°	26.1	26.1	26.1	27.0	27.0	24.2	21.6	21.6	24.2	23.3	21.6
87.5°	15.2	15.2	16.2	18.9	17.1	16.2	13.5	14.4	13.5	15.2	12.6
90°	12.8	11.9	11.9	9.1	9.0	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°

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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°
1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	110°	82.3
1533.6	1537.2	1545.3	1542.6	1572.3	1563.3	1583.9	1611.9	1637.9	1625.4	1628.9	112.5°	116.1
1261.2	1265.7	1231.5	1252.3	1282.8	1270.2	1265.7	1307.1	1297.2	1344.0	1305.3	115°	156.5
934.1	923.2	907.1	899.0	876.5	876.5	918.7	937.6	934.9	967.3	1000.5	117.5°	197.4
656.2	643.6	623.9	618.5	641.0	651.7	670.6	689.5	714.6	751.6	773.1	120°	234.8
481.8	477.3	481.8	495.3	516.0	531.3	560.1	593.3	621.1	650.8	679.6	122.5°	270.1
364.1	373.1	384.7	393.7	409.9	438.6	454.0	490.8	516.0	542.1	575.3	125°	304.3
283.2	288.6	291.2	294.8	308.3	329.0	329.0	366.7	400.1	434.2	462.1	127.5°	338.6
215.7	215.7	206.7	212.2	214.0	212.2	222.9	244.5	266.1	288.6	332.7	130°	372.4
180.7	175.3	172.6	171.7	172.6	176.2	182.5	190.6	194.2	204.1	221.2	132.5°	406.1
160.0	159.1	156.4	156.4	158.3	159.1	165.4	172.6	174.4	177.1	183.4	135°	438.8
141.2	142.9	145.7	144.7	145.7	147.4	151.9	158.3	161.8	162.8	167.3	137.5°	470.0
127.7	129.4	130.3	133.1	133.1	133.9	137.6	143.8	146.5	151.0	155.5	140°	499.2
118.7	119.6	120.5	119.6	120.5	120.5	125.0	131.2	134.8	137.6	140.2	142.5°	529.4
108.7	107.9	107.9	107.9	105.2	104.2	106.1	112.3	113.2	116.0	122.2	145°	558.0
97.1	94.4	92.6	92.6	92.6	93.5	98.0	104.2	105.2	107.9	113.2	147.5°	585.6
86.3	85.4	85.4	86.3	87.2	89.0	92.6	98.9	99.7	102.5	107.0	150°	606.6
80.9	80.9	80.9	81.8	82.7	83.6	88.1	94.4	96.2	98.9	104.2	152.5°	622.5
77.3	78.3	77.3	77.3	78.3	80.0	84.5	91.7	94.4	97.1	102.5	155°	640.4
74.6	74.6	74.6	75.5	75.5	77.3	82.7	89.9	91.7	95.3	103.4	157.5°	658.3
71.0	72.8	71.9	72.8	73.8	75.5	80.9	88.1	90.8	96.2	105.2	160°	672.6
69.3	69.3	69.3	70.1	71.9	72.8	77.3	85.4	89.0	96.2	110.6	162.5°	682.3
68.3	66.5	66.5	67.4	69.3	71.0	75.5	83.6	88.1	95.3	109.7	165°	691.5
67.4	64.8	63.8	64.8	66.5	67.4	72.8	80.9	87.2	92.6	106.1	167.5°	700.7
64.8	62.9	62.0	62.9	64.8	66.5	71.0	79.1	83.6	90.8	101.6	170°	707.9
63.8	61.2	61.2	62.0	63.8	64.8	69.3	77.3	81.8	91.7	104.2	172.5°	709.9
60.3	59.3	59.3	60.3	60.3	62.0	67.4	75.5	79.1	93.5	87.2	175°	712.0
57.5	57.5	57.5	57.5	58.4	59.3	65.7	73.8	75.5	80.9	74.6	177.5°	715.6
55.8	55.8	55.8	55.8	55.8	57.5	62.9	71.0	71.9	71.0	68.3	180°	716.1
52.2	52.2	52.2	52.2	53.0	53.9	59.3	66.5	66.5	64.8	64.8		
49.4	48.6	48.6	48.6	48.6	49.4	54.8	62.0	61.2	60.3	60.3		
44.1	44.1	44.1	44.1	44.1	44.1	49.4	56.7	55.8	54.8	53.9		
38.7	38.7	39.6	38.7	37.7	36.8	42.2	50.3	50.3	49.4	48.6		
33.2	32.3	33.2	32.3	30.6	30.6	35.1	42.2	43.2	42.2	40.4		
27.0	26.1	26.1	26.1	22.5	22.5	27.0	34.2	34.2	33.2	31.5		
20.7	19.7	18.9	18.0	15.2	15.2	18.9	25.2	26.1	22.5	21.6		
10.7	10.7	10.7	8.1	7.2	6.3	9.9	15.2	15.2	12.6	10.7		
7.7	7.2	6.1	5.1	5.1	5.1	6.1	8.1	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		

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 ISW-AF-1000-LED-E1-SLR-ULG

REPORT NUMBER: P227295
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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°	1764.7	1764.7
108.4	104.9	101.3	101.3	101.3	104.9	108.4	116.1	123.8	130.4	2.5°	1651.3	1659.4
150.4	146.3	142.2	143.2	142.2	146.3	150.4	156.5	162.6	167.3	5°	1334.0	1365.5
193.3	190.8	188.2	188.2	188.2	190.8	193.3	197.4	201.5	204.1	7.5°	1008.6	1050.9
231.2	229.7	228.1	230.2	228.1	229.7	231.2	234.8	238.3	240.4	10°	808.1	837.0
267.0	266.5	266.0	269.0	266.0	266.5	267.0	270.1	273.1	275.2	12.5°	709.3	750.6
302.8	301.8	300.7	304.8	300.7	301.8	302.8	304.3	305.9	308.9	15°	608.6	653.6
336.6	336.6	336.6	337.6	336.6	336.6	336.6	338.6	340.6	343.7	17.5°	498.9	553.7
370.3	369.8	369.3	371.3	369.3	369.8	370.3	372.4	374.4	376.4	20°	381.2	435.1
402.0	402.5	403.0	405.1	403.0	402.5	402.0	406.1	410.2	411.7	22.5°	267.9	313.7
435.8	435.8	435.8	438.8	435.8	435.8	435.8	438.8	441.9	443.4	25°	195.1	215.7
469.5	468.5	467.5	470.6	467.5	468.5	469.5	470.0	470.6	472.6	27.5°	173.5	181.6
498.2	497.2	496.1	499.2	496.1	497.2	498.2	499.2	500.2	501.2	30°	162.8	168.1
528.9	527.8	526.8	529.9	526.8	527.8	528.9	529.4	529.9	531.4	32.5°	146.5	151.9
556.5	557.5	558.5	562.6	558.5	557.5	556.5	558.0	559.6	561.1	35°	128.6	135.7
584.1	584.6	585.1	588.2	585.1	584.6	584.1	585.6	587.2	587.2	37.5°	119.6	125.0
606.6	606.1	605.6	608.7	605.6	606.1	606.6	606.6	606.6	606.6	40°	114.2	115.1
622.0	622.0	622.0	625.0	622.0	622.0	622.0	622.5	623.0	623.5	42.5°	109.7	109.7
639.3	639.3	639.3	643.4	639.3	639.3	639.3	640.4	641.4	642.9	45°	107.0	109.7
657.8	657.8	657.8	660.8	657.8	657.8	657.8	658.3	658.8	659.8	47.5°	108.7	120.5
674.1	674.6	675.1	678.2	675.1	674.6	674.1	672.6	671.1	670.5	50°	122.2	118.7
684.4	684.4	684.4	688.4	684.4	684.4	684.4	682.3	680.3	678.2	52.5°	125.0	111.5
691.5	692.5	693.6	696.6	693.6	692.5	691.5	691.5	691.5	690.0	55°	114.2	107.0
699.7	701.2	702.8	705.8	702.8	701.2	699.7	700.7	701.7	702.8	57.5°	102.5	93.5
707.9	709.4	711.0	714.0	711.0	709.4	707.9	707.9	707.9	708.4	59°	91.7	86.3
711.0	712.0	713.0	715.0	713.0	712.0	711.0	709.9	708.9	707.4	60°	85.4	83.6
713.0	713.5	714.0	716.1	714.0	713.5	713.0	712.0	711.0	708.9	62.5°	78.3	80.0
716.1	718.6	721.2	723.2	721.2	718.6	716.1	715.6	715.0	714.0	65°	72.8	76.4
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	70.1	72.8
										70°	65.7	67.4
										72.5°	61.2	62.0
										75°	54.8	55.8
										77.5°	48.6	48.6
										80°	39.6	39.6
										82.5°	30.6	29.7
										85°	19.7	18.9
										87.5°	9.0	7.2
										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°
1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	110°	104.3	110.5	116.6
1699.9	1725.1	1744.8	1741.3	1783.5	1808.7	1812.3	1838.3	1863.5	112.5°	137.1	141.7	146.3
1390.7	1425.8	1460.0	1485.1	1551.6	1606.4	1648.7	1693.6	1746.7	115°	171.9	174.9	178.0
1108.4	1138.0	1193.8	1234.3	1304.4	1368.2	1430.3	1501.3	1561.5	117.5°	206.6	208.2	209.7
868.4	906.1	958.3	1033.8	1096.7	1169.5	1247.8	1315.2	1415.9	120°	242.4	245.5	248.6
780.3	803.6	846.8	882.8	961.0	1038.3	1126.4	1218.9	1311.6	122.5°	277.2	280.3	283.4
689.5	730.9	771.3	823.5	891.8	976.3	1071.5	1171.4	1275.6	125°	312.0	314.6	317.1
601.4	656.2	700.3	756.9	833.3	940.3	1064.4	1188.5	1310.7	127.5°	346.8	347.3	347.8
493.6	544.7	622.1	679.6	779.4	913.4	1072.5	1244.1	1409.5	130°	378.5	379.5	380.5
388.3	443.1	531.3	616.6	726.4	899.0	1104.8	1335.9	1557.0	132.5°	413.3	413.8	414.3
277.7	352.4	439.6	547.5	680.5	890.0	1148.9	1449.1	1746.7	135°	445.0	446.0	447.0
207.7	259.8	365.9	483.7	629.3	873.8	1195.6	1554.3	1876.1	137.5°	474.6	476.7	478.7
185.2	222.1	291.2	415.3	566.3	842.3	1230.7	1654.1	1993.9	140°	502.3	505.3	508.4
161.8	190.6	245.4	350.6	509.7	793.8	1246.0	1707.1	2075.7	142.5°	533.0	535.0	537.0
142.0	169.0	224.7	325.4	481.0	739.0	1243.3	1760.2	2178.2	145°	562.6	563.1	563.6
129.4	152.8	215.7	319.2	458.5	688.7	1246.0	1845.6	2330.1	147.5°	587.2	587.7	588.2
119.6	146.5	208.6	305.7	447.6	660.7	1256.7	1921.1	2460.4	150°	606.6	606.6	606.6
119.6	144.7	190.6	286.7	442.3	663.4	1261.2	1979.5	2557.6	152.5°	624.0	624.0	624.0
125.8	135.7	177.1	276.0	445.9	683.2	1255.9	2038.8	2651.9	155°	644.5	643.4	642.4
119.6	126.7	168.1	274.2	445.9	697.6	1272.0	2112.6	2776.0	157.5°	660.8	660.3	659.8
113.2	117.7	165.4	271.5	436.9	711.1	1338.5	2250.1	2937.8	160°	670.0	670.0	670.0
105.2	110.6	161.8	267.0	427.0	728.1	1456.3	2481.2	3205.7	162.5°	676.2	677.2	678.2
95.3	106.1	156.4	259.8	420.7	758.7	1576.8	2714.8	3524.8	165°	688.4	688.4	688.4
91.7	101.6	143.8	242.7	414.4	792.0	1705.4	2938.7	3811.6	167.5°	703.8	702.3	700.7
89.0	98.0	133.1	230.2	409.0	808.1	1744.0	3024.0	3922.2	170°	708.9	707.9	706.9
87.2	96.2	126.7	219.3	402.7	809.1	1771.9	3056.5	3938.4	172.5°	705.8	705.8	705.8
84.5	92.6	114.2	196.9	383.0	808.1	1774.5	3077.1	3891.6	175°	706.9	706.3	705.8
80.0	89.0	115.1	185.2	347.0	770.4	1663.1	2977.4	3705.5	177.5°	713.0	712.0	711.0
76.4	86.3	121.3	187.9	309.2	673.3	1454.5	2667.2	3307.3	180°	716.1	716.1	716.1
71.0	84.5	126.7	194.2	298.5	559.1	1100.3	2178.2	2769.7				
65.7	83.6	131.2	198.7	286.7	460.2	762.3	1544.5	2073.0				
59.3	76.4	119.6	169.0	237.3	334.4	490.8	1010.5	1429.4				
51.2	61.2	87.2	118.7	174.4	233.7	290.3	610.4	934.9				
42.2	45.8	62.0	76.4	116.0	138.4	160.9	344.3	653.6				
31.5	32.3	42.2	48.6	65.7	76.4	96.2	211.2	529.5				
18.0	20.7	28.7	32.3	39.6	48.6	62.9	134.8	415.3				
7.2	9.0	17.1	18.9	21.6	27.0	35.1	78.3	129.4				
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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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°	1764.7	1764.7	1764.7	1764.7
148.8	151.4	152.4	153.4	152.9	152.4	151.4	150.4	2.5°	1888.7	1907.6	1923.8	1936.3
180.6	183.1	184.6	186.2	184.6	183.1	182.1	181.1	5°	1803.4	1847.3	1900.4	1945.3
212.8	215.8	217.9	219.9	217.4	214.8	213.8	212.8	7.5°	1651.3	1707.1	1793.4	1846.4
250.1	251.6	253.7	255.7	253.2	250.6	249.6	248.6	10°	1507.5	1589.4	1683.8	1760.2
284.4	285.4	287.4	289.5	286.9	284.4	283.4	282.3	12.5°	1409.5	1511.1	1601.0	1686.4
318.6	320.2	321.2	322.2	319.7	317.1	317.1	317.1	15°	1382.6	1485.9	1566.9	1645.1
350.4	352.9	353.4	353.9	353.9	353.9	353.4	352.9	17.5°	1436.5	1540.0	1609.1	1656.8
383.1	385.7	387.7	389.7	389.7	389.7	388.7	387.7	20°	1563.3	1673.9	1717.9	1714.4
417.4	420.4	423.0	425.5	424.5	423.5	423.5	423.5	22.5°	1736.8	1852.8	1852.8	1816.8
450.1	453.2	455.7	458.3	457.8	457.3	458.8	460.3	25°	1966.0	2049.6	2003.8	1935.4
481.3	483.9	484.9	485.9	486.4	486.9	489.5	492.0	27.5°	2128.8	2206.9	2126.9	2014.6
509.9	511.5	512.5	513.5	514.5	515.6	518.1	520.7	30°	2263.6	2321.1	2219.5	2083.8
538.1	539.1	542.2	545.2	545.2	545.2	545.7	546.3	32.5°	2382.2	2424.5	2290.6	2156.6
566.2	568.8	571.8	574.9	574.4	573.9	572.3	570.8	35°	2524.2	2539.6	2364.2	2221.3
590.8	593.3	595.9	598.4	598.9	599.4	597.9	596.4	37.5°	2681.6	2694.1	2470.3	2292.3
608.7	610.7	612.2	613.8	615.3	616.8	618.4	619.9	40°	2866.8	2821.8	2548.6	2358.0
624.5	625.0	626.6	628.1	630.1	632.2	634.7	637.3	42.5°	2981.0	2907.2	2605.1	2392.2
641.4	640.4	642.9	645.5	648.0	650.6	651.6	652.6	45°	3070.8	2970.1	2631.2	2411.9
659.3	658.8	660.8	662.9	663.9	664.9	664.9	664.9	47.5°	3181.4	3062.7	2677.1	2447.8
671.6	673.1	676.2	679.2	677.7	676.2	675.7	675.1	50°	3327.0	3191.3	2793.1	2549.4
680.3	682.3	684.4	686.4	685.9	685.4	684.4	683.3	52.5°	3625.5	3457.4	3001.6	2726.6
687.9	687.4	690.0	692.5	694.1	695.6	694.6	693.6	55°	3968.9	3809.8	3335.1	3018.7
697.1	693.6	696.6	699.7	701.7	703.8	703.8	703.8	57.5°	4244.0	4137.0	3632.7	3283.0
704.3	701.7	703.3	704.8	707.4	709.9	711.0	712.0	59°	4345.6	4299.8	3843.0	3506.9
705.3	704.8	706.3	707.9	708.9	709.9	711.0	712.0	60°	4383.3	4422.8	3954.5	3643.4
705.8	705.8	708.4	711.0	711.5	712.0	711.0	709.9	62.5°	4409.4	4581.1	4316.8	4051.6
710.4	709.9	712.5	715.0	716.1	717.1	715.6	714.0	65°	4355.4	4607.2	4463.3	4300.6
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	4120.9	4422.0	4394.1	4251.2
								70°	3640.8	3976.1	4073.2	3870.0
								72.5°	2739.2	3155.4	3684.9	3366.6
								75°	1784.4	2169.2	3146.4	2883.9
								77.5°	1117.4	1353.9	2244.7	2019.9
								80°	743.5	870.2	1424.9	1297.2
								82.5°	559.1	616.6	979.9	921.5
								85°	294.8	375.7	762.3	966.4
								87.5°	110.6	123.2	573.6	863.9
								90°	7.2	7.2	9.1	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°
1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	110°	119.7	118.7	120.2	121.7	122.8
1947.2	1963.3	1973.2	1966.0	1977.7	1980.4	1967.9	112.5°	150.4	150.4	151.4	152.4	152.9
1983.1	2028.1	2060.4	2082.9	2091.8	2100.0	2096.3	115°	182.1	181.1	182.1	183.1	184.6
1916.6	1985.8	2046.0	2087.4	2101.8	2112.6	2102.7	117.5°	213.8	212.8	213.8	214.8	217.4
1842.8	1914.8	1971.4	2012.8	2011.8	2022.7	2003.8	120°	248.6	248.6	249.6	250.6	253.2
1773.7	1843.8	1894.1	1892.4	1879.7	1848.3	1842.8	122.5°	283.4	282.3	283.4	284.4	286.9
1718.8	1755.7	1768.3	1765.5	1729.6	1711.6	1708.9	125°	317.1	317.1	317.1	317.1	319.7
1691.9	1690.0	1661.3	1629.8	1595.7	1593.9	1570.4	127.5°	355.0	352.9	353.4	353.9	353.9
1696.4	1637.9	1584.9	1530.9	1494.0	1485.9	1488.7	130°	388.7	387.7	388.7	389.7	389.7
1752.9	1649.6	1549.8	1494.9	1451.8	1439.2	1444.6	132.5°	424.5	423.5	423.5	423.5	424.5
1824.0	1685.5	1561.5	1477.9	1442.9	1427.5	1430.3	135°	461.4	460.3	458.8	457.3	457.8
1871.6	1726.9	1600.1	1496.8	1449.1	1434.7	1443.7	137.5°	493.1	492.0	489.5	486.9	486.4
1932.8	1783.5	1652.3	1545.3	1474.3	1455.5	1461.7	140°	522.7	520.7	518.1	515.6	514.5
1993.0	1844.7	1726.0	1604.6	1518.4	1483.3	1493.2	142.5°	548.3	546.3	545.7	545.2	545.2
2057.8	1915.7	1796.1	1685.5	1583.9	1529.1	1541.7	145°	572.9	570.8	572.3	573.9	574.4
2133.3	1998.4	1895.9	1794.4	1690.0	1644.2	1649.6	147.5°	598.4	596.4	597.9	599.4	598.9
2206.1	2079.2	2013.7	1938.2	1877.0	1806.9	1806.9	150°	624.0	619.9	618.4	616.8	615.3
2249.2	2184.5	2166.5	2144.9	2108.9	2058.6	2047.8	152.5°	642.4	637.3	634.7	632.2	630.1
2302.3	2309.4	2350.7	2393.9	2404.8	2355.2	2340.0	155°	655.7	652.6	651.6	650.6	648.0
2402.0	2477.5	2613.2	2731.1	2754.4	2794.9	2748.2	157.5°	670.0	664.9	664.9	664.9	663.9
2542.2	2681.6	2910.8	3103.2	3158.1	3161.6	3165.2	160°	681.3	675.1	675.7	676.2	677.7
2702.2	2901.8	3204.8	3434.0	3532.0	3558.1	3539.2	162.5°	689.5	683.3	684.4	685.4	685.9
2976.5	3157.1	3488.9	3736.1	3861.9	3923.0	3906.9	165°	697.7	693.6	694.6	695.6	694.1
3248.0	3472.7	3764.9	4008.4	4142.4	4210.8	4225.1	167.5°	709.9	703.8	703.8	703.8	701.7
3433.1	3643.4	3913.2	4137.9	4270.1	4351.8	4359.1	170°	717.1	712.0	711.0	709.9	707.4
3546.4	3738.8	4002.2	4199.9	4332.1	4401.3	4426.5	172.5°	717.1	712.0	711.0	709.9	708.9
3889.8	3924.9	4104.7	4235.0	4327.6	4359.1	4377.9	175°	715.0	709.9	711.0	712.0	711.5
4050.7	3904.2	3883.5	3964.4	3972.5	3951.9	3925.8	177.5°	718.1	714.0	715.6	717.1	716.1
3826.9	3484.4	3357.6	3346.8	3313.5	3300.0	3217.4	180°	716.1	716.1	716.1	716.1	716.1
3323.5	2829.9	2606.1	2484.7	2558.4	2555.7	2471.2						
2800.2	2297.8	2007.3	1833.0	1811.4	1807.8	1734.1						
2274.3	1803.4	1549.0	1464.4	1362.8	1332.3	1344.9						
1639.7	1287.3	1233.4	1298.1	1306.2	1282.8	1266.6						
1032.9	968.2	1020.3	1138.0	1207.3	1176.7	1188.5						
861.2	762.3	765.9	890.0	936.7	943.9	919.6						
955.6	763.2	625.6	610.4	594.2	374.0	520.5						
861.2	590.7	347.9	286.7	176.2	101.6	105.2						
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°	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7
153.4	152.4	151.4	148.8	146.3	141.7	2.5°	1965.1	1948.0	1929.2	1904.0	1908.5	1877.9
186.2	184.6	183.1	180.6	178.0	174.9	5°	2068.5	2038.8	1998.4	1947.2	1899.5	1838.3
219.9	217.9	215.8	212.8	209.7	208.2	7.5°	2057.8	2010.1	1942.7	1865.4	1802.4	1714.4
255.7	253.7	251.6	250.1	248.6	245.5	10°	1965.1	1903.1	1848.3	1768.3	1686.4	1609.1
289.5	287.4	285.4	284.4	283.4	280.3	12.5°	1835.7	1800.6	1752.9	1692.8	1613.6	1534.5
322.2	321.2	320.2	318.6	317.1	314.6	15°	1694.5	1697.3	1668.4	1652.3	1612.7	1549.8
353.9	353.4	352.9	350.4	347.8	347.3	17.5°	1578.6	1605.5	1620.9	1646.0	1650.5	1619.9
389.7	387.7	385.7	383.1	380.5	379.5	20°	1501.3	1539.0	1586.7	1655.9	1728.7	1760.2
425.5	423.0	420.4	417.4	414.3	413.8	22.5°	1458.1	1504.9	1581.3	1707.1	1840.2	1920.2
458.3	455.7	453.2	450.1	447.0	446.0	25°	1450.0	1512.0	1619.0	1772.8	1945.3	2057.8
485.9	484.9	483.9	481.3	478.7	476.7	27.5°	1463.5	1544.5	1671.2	1846.4	2016.3	2179.1
513.5	512.5	511.5	509.9	508.4	505.3	30°	1506.7	1601.0	1739.5	1928.3	2104.4	2266.2
545.2	542.2	539.1	538.1	537.0	535.0	32.5°	1548.0	1664.9	1817.7	2002.0	2179.1	2340.0
574.9	571.8	568.8	566.2	563.6	563.1	35°	1614.5	1732.3	1888.7	2058.6	2230.3	2412.8
598.4	595.9	593.3	590.8	588.2	587.7	37.5°	1716.1	1819.5	1944.4	2102.7	2281.6	2470.3
613.8	612.2	610.7	608.7	606.6	606.6	40°	1860.8	1929.2	2010.1	2135.0	2306.8	2509.0
628.1	626.6	625.0	624.5	624.0	624.0	42.5°	2077.5	2091.8	2119.8	2184.5	2329.2	2553.9
645.5	642.9	640.4	641.4	642.4	643.4	45°	2357.1	2313.9	2289.7	2280.7	2379.6	2582.7
662.9	660.8	658.8	659.3	659.8	660.3	47.5°	2681.6	2597.1	2500.0	2453.2	2476.7	2628.6
679.2	676.2	673.1	671.6	670.0	670.0	50°	3104.1	2966.6	2776.0	2641.2	2629.5	2763.4
686.4	684.4	682.3	680.3	678.2	677.2	52.5°	3491.5	3311.8	3071.7	2912.6	2847.9	3015.1
692.5	690.0	687.4	687.9	688.4	688.4	55°	3857.4	3719.0	3447.5	3249.7	3227.3	3348.6
699.7	696.6	693.6	697.1	700.7	702.3	57.5°	4178.3	4058.8	3836.8	3578.8	3587.8	3705.5
704.8	703.3	701.7	704.3	706.9	707.9	59°	4344.7	4244.8	4039.0	3776.5	3796.3	3958.1
707.9	706.3	704.8	705.3	705.8	705.8	60°	4404.0	4320.4	4124.4	3903.3	3928.4	4096.5
711.0	708.4	705.8	705.8	705.8	706.3	62.5°	4399.5	4345.6	4203.5	4099.3	4227.8	4350.9
715.0	712.5	709.9	710.4	711.0	712.0	65°	3979.7	3897.9	3881.7	4064.2	4312.4	4431.0
716.1	716.1	716.1	716.1	716.1	716.1	67.5°	3165.2	3203.9	3357.6	3671.4	4087.6	4260.2
						70°	2350.7	2419.1	2624.1	3017.8	3589.5	3888.0
						72.5°	1728.7	1797.0	1985.8	2417.3	2953.1	3217.4
						75°	1356.5	1377.2	1512.9	1851.8	2327.4	2544.1
						77.5°	1253.1	1191.1	1135.4	1316.9	1569.6	1755.7
						80°	1166.9	1049.0	917.8	972.7	1033.8	1231.5
						82.5°	906.1	828.0	725.5	795.5	824.4	830.6
						85°	530.4	472.0	597.8	846.8	837.8	733.6
						87.5°	187.0	242.7	273.3	469.2	567.2	490.8
						90°	8.2	10.8	16.3	16.7	20.7	10.6
						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°
1764.7	1764.7	1764.7	110°	104.3	96.7	89.0	82.3	75.7	72.6	69.6
1853.7	1828.5	1826.7	112.5°	137.1	130.4	123.8	116.1	108.4	104.9	101.3
1789.9	1733.2	1715.2	115°	171.9	167.3	162.6	156.5	150.4	146.3	142.2
1637.9	1572.3	1558.8	117.5°	206.6	204.1	201.5	197.4	193.3	190.8	188.2
1510.3	1437.5	1424.9	120°	242.4	240.4	238.3	234.8	231.2	229.7	228.1
1444.6	1375.4	1360.1	122.5°	277.2	275.2	273.1	270.1	267.0	266.5	266.0
1469.8	1393.4	1385.3	125°	312.0	308.9	305.9	304.3	302.8	301.8	300.7
1564.2	1483.3	1486.9	127.5°	346.8	343.7	340.6	338.6	336.6	336.6	336.6
1726.0	1673.9	1661.3	130°	378.5	376.4	374.4	372.4	370.3	369.8	369.3
1938.2	1881.5	1865.4	132.5°	413.3	411.7	410.2	406.1	402.0	402.5	403.0
2118.8	2090.1	2079.2	135°	445.0	443.4	441.9	438.8	435.8	435.8	435.8
2249.2	2262.7	2251.9	137.5°	474.6	472.6	470.6	470.0	469.5	468.5	467.5
2353.5	2398.4	2393.0	140°	502.3	501.2	500.2	499.2	498.2	497.2	496.1
2460.4	2547.7	2551.2	142.5°	533.0	531.4	529.9	529.4	528.9	527.8	526.8
2539.6	2693.3	2724.7	145°	562.6	561.1	559.6	558.0	556.5	557.5	558.5
2641.2	2847.0	2879.4	147.5°	587.2	587.2	587.2	585.6	584.1	584.6	585.1
2718.5	2960.3	2999.8	150°	606.6	606.6	606.6	606.6	606.6	606.1	605.6
2794.0	3053.7	3096.9	152.5°	624.0	623.5	623.0	622.5	622.0	622.0	622.0
2856.0	3146.4	3190.4	155°	644.5	642.9	641.4	640.4	639.3	639.3	639.3
2926.2	3236.2	3279.4	157.5°	660.8	659.8	658.8	658.3	657.8	657.8	657.8
3052.0	3377.4	3428.6	160°	670.0	670.5	671.1	672.6	674.1	674.6	675.1
3322.5	3638.9	3711.8	162.5°	676.2	678.2	680.3	682.3	684.4	684.4	684.4
3713.6	4000.4	4057.9	165°	688.4	690.0	691.5	691.5	691.5	692.5	693.6
4066.0	4245.8	4261.1	167.5°	703.8	702.8	701.7	700.7	699.7	701.2	702.8
4210.8	4313.2	4308.7	170°	708.9	708.4	707.9	707.9	707.9	709.4	711.0
4316.8	4329.4	4304.2	172.5°	705.8	707.4	708.9	709.9	711.0	712.0	713.0
4374.3	4254.8	4211.6	175°	706.9	708.9	711.0	712.0	713.0	713.5	714.0
4224.2	4057.9	4001.3	177.5°	713.0	714.0	715.0	715.6	716.1	718.6	721.2
3791.0	3702.8	3638.1	180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1
3224.5	3001.6	2959.4								
2444.2	2150.3	2087.4								
1708.0	1355.6	1270.2								
1122.8	870.2	837.8								
728.1	578.1	568.1								
507.9	379.3	349.6								
311.9	126.7	121.3								
97.1	58.4	52.2								
7.8	8.7	8.7								
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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