

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: P226895

Luminaire Tested: **ISW-AF-350-LED-E1-SL3-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)-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-350-LED-E1-SL3-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, 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: 4196.4 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U5 - G1

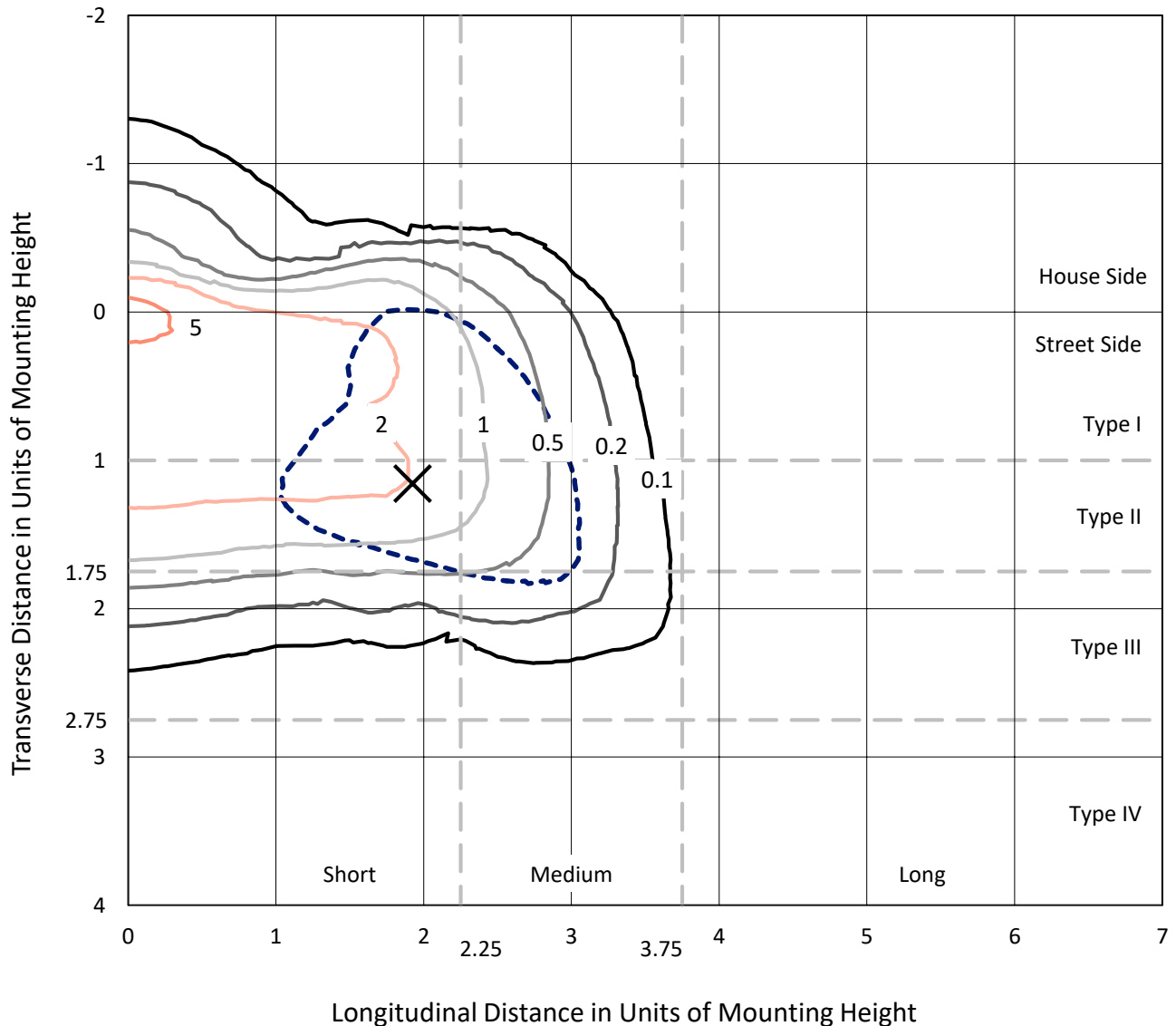
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

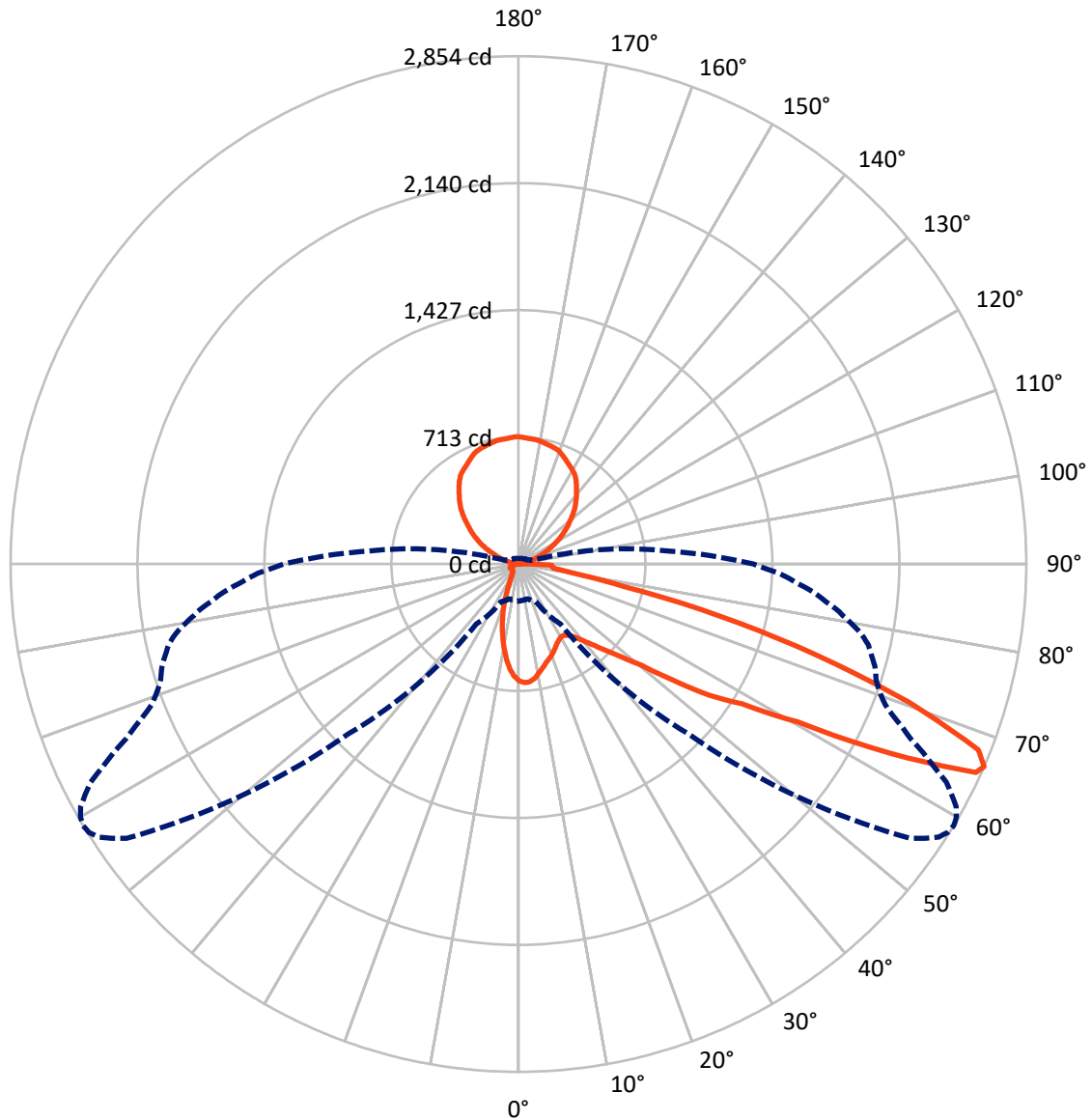
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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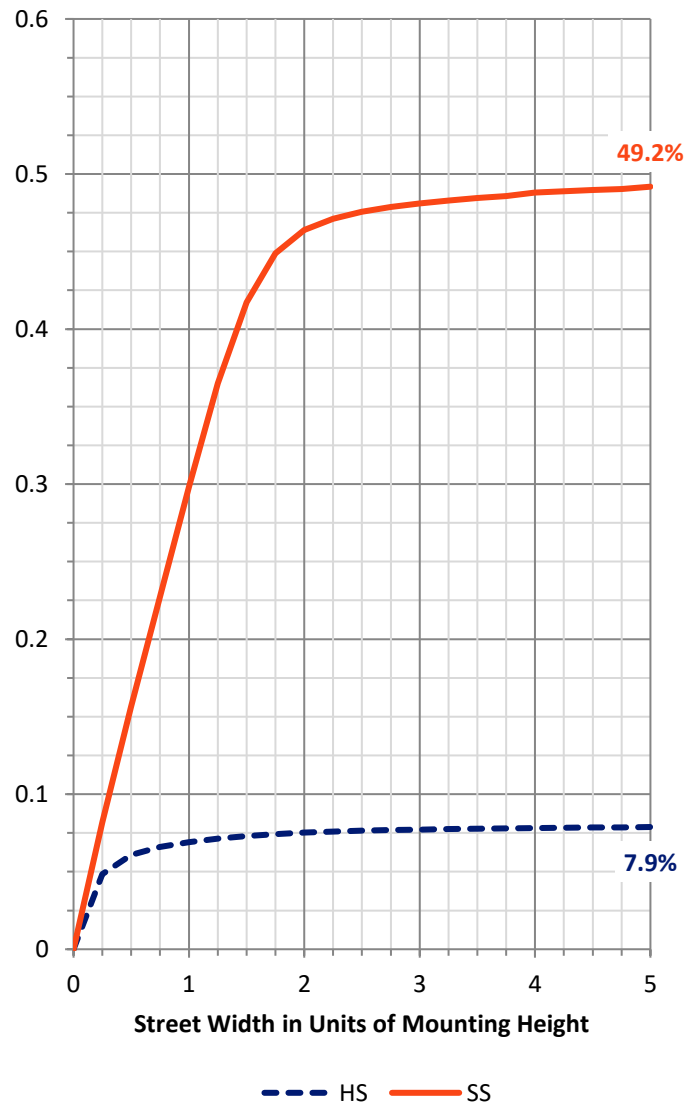
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	336.3	887.6	1224.0
	% Fixture	8.0	21.2	29.2
Street Side	Lumens	2084.1	888.4	2972.5
	% Fixture	49.7	21.2	70.8
Total	Lumens	2420.4	1776.0	4196.4
	% Fixture	57.7	42.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	1.3
10°-20°	118.4	2.8
20°-30°	148.5	3.5
30°-40°	203.2	4.8
40°-50°	326.9	7.8
50°-60°	568.0	13.5
60°-70°	690.2	16.4
70°-80°	257.5	6.1
80°-90°	51.7	1.2
90°-100°	10.5	0.3
100°-110°	58.7	1.4
110°-120°	169.9	4.0
120°-130°	279.4	6.7
130°-140°	344.6	8.2
140°-150°	352.5	8.4
150°-160°	297.0	7.1
160°-170°	195.5	4.7
170°-180°	67.8	1.6
0°-90°	2420.4	57.7
0°-180°	4196.4	100.0



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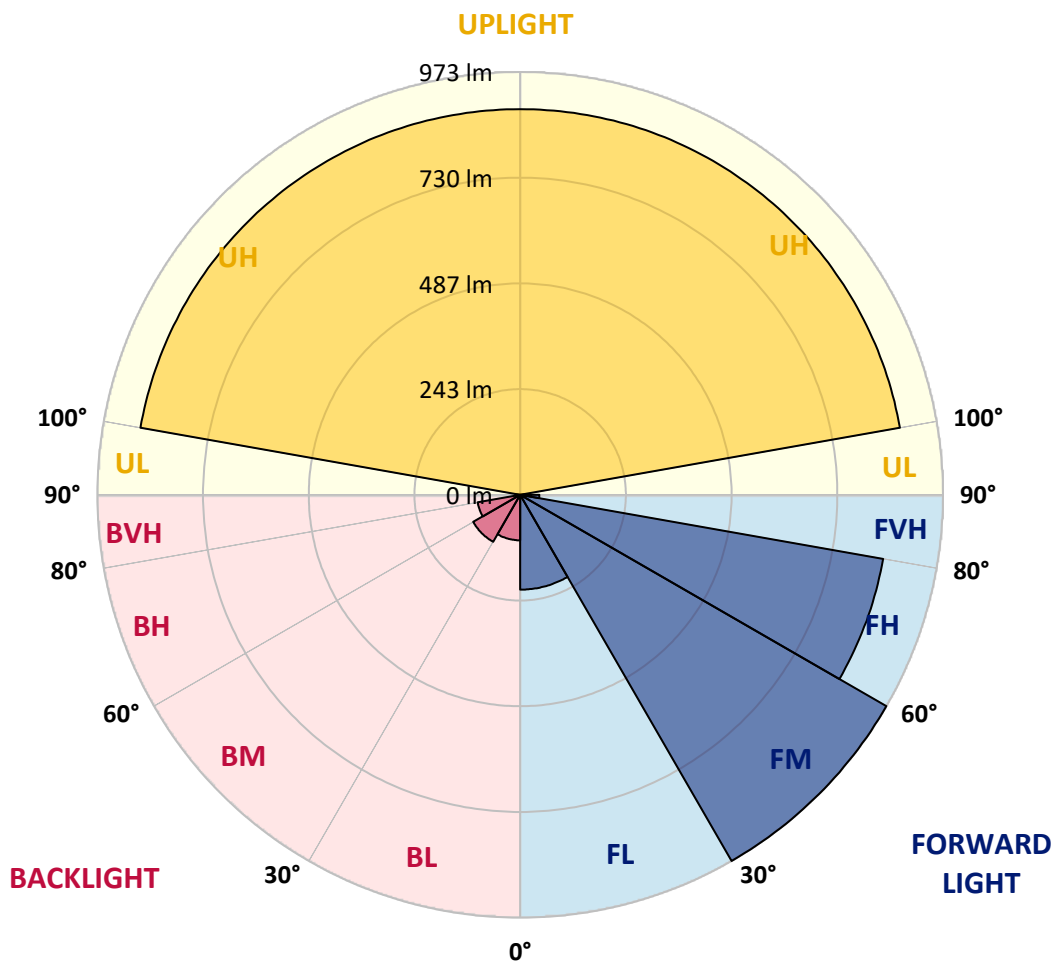
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	218.3	5.2			
FM	(30°-60°)	973.3	23.2			
FH	(60°-80°)	848.3	20.2			G1/1800
FVH	(80°-90°)	44.2	1.1			G1/100
BL	(0°-30°)	104.7	2.5	B0/110		
BM	(30°-60°)	124.9	3.0	B0/220		
BH	(60°-80°)	99.3	2.4	B0/110		G0/110
BVH	(80°-90°)	7.5	0.2			G0/10
UL	(90°-100°)	10.5	0.3		U2/50	
UH	(100°-180°)	887.6	21.2		U4/1000	

BUG Rating: B0-U5-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6
2.5°	674.6	672.4	676.5	675.0	676.1	670.5	669.4	668.3	669.1	668.0	668.0
5°	658.7	657.6	662.4	665.0	667.2	666.5	666.1	666.1	666.5	663.9	664.2
7.5°	611.9	611.2	617.9	622.7	633.4	639.8	647.9	648.2	649.1	647.9	650.2
10°	562.2	564.5	570.4	578.2	594.1	603.7	619.3	622.3	623.4	623.8	624.2
12.5°	514.6	512.5	519.9	534.7	556.3	571.8	591.5	593.0	594.8	597.4	600.1
15°	472.4	475.0	480.9	496.5	519.1	541.0	566.6	568.1	571.8	574.1	577.8
17.5°	443.4	443.4	450.1	464.6	485.8	513.6	545.8	548.5	551.5	554.4	558.5
20°	428.9	428.9	431.6	440.1	458.7	485.4	524.4	527.3	532.5	535.8	541.4
22.5°	427.9	427.5	427.1	428.9	440.1	460.8	501.3	505.4	509.8	515.1	519.9
25°	439.8	440.9	436.4	433.4	434.5	444.2	479.5	481.7	490.2	493.6	499.5
27.5°	456.8	458.7	454.9	450.5	443.9	437.5	460.8	464.6	470.1	475.8	483.1
30°	481.3	480.9	480.6	477.6	464.6	444.9	455.3	457.9	462.8	467.2	473.5
32.5°	507.7	510.7	512.8	511.4	498.0	464.6	463.1	465.3	469.8	472.4	476.5
35°	541.8	543.3	551.8	551.8	538.5	499.8	485.0	486.8	489.1	490.2	493.2
37.5°	579.3	584.4	597.1	604.5	583.7	543.6	519.6	519.6	520.7	521.4	523.2
40°	622.7	630.1	647.5	661.6	648.2	598.2	564.8	568.1	567.0	565.5	569.6
42.5°	673.1	681.3	702.5	715.9	708.0	663.9	625.6	623.4	626.8	622.3	623.8
45°	731.8	738.1	759.6	773.8	780.0	744.4	705.4	701.0	701.0	691.3	695.4
47.5°	784.5	786.3	807.1	832.0	852.4	853.1	798.2	795.2	788.2	781.8	780.4
50°	833.5	839.0	852.4	879.4	922.2	959.2	925.9	916.6	908.8	885.4	892.4
52.5°	918.4	929.1	937.7	954.1	1004.5	1079.8	1121.1	1106.5	1104.7	1083.6	1078.7
55°	934.4	935.5	963.7	1057.9	1176.7	1230.9	1309.9	1309.6	1315.5	1308.8	1302.5
57.5°	859.4	850.5	897.6	1021.9	1260.6	1538.9	1514.8	1517.3	1509.6	1489.2	1482.9
60°	669.4	676.9	727.7	886.2	1200.1	1737.8	1897.0	1849.9	1883.7	1830.6	1802.0
62.5°	376.7	368.2	402.6	569.3	984.5	1748.2	2417.6	2422.9	2439.1	2409.5	2339.7
65°	243.1	239.4	236.0	288.0	590.0	1529.2	2705.6	2769.4	2807.6	2823.2	2824.4
66°	208.9	205.9	201.8	235.7	411.1	1347.4	2687.0	2755.3	2816.2	2845.1	2853.6
67.5°	177.8	173.3	172.6	195.2	286.1	1045.4	2510.0	2617.2	2671.0	2746.0	2786.8
70°	135.8	133.6	140.2	168.5	219.7	492.0	2000.2	2140.0	2232.8	2291.4	2329.3
72.5°	114.0	113.1	122.4	154.0	208.2	279.1	1400.1	1550.4	1647.3	1703.3	1755.2
75°	89.1	89.8	102.1	147.0	207.0	243.1	813.5	956.7	1013.0	1101.4	1168.9
77.5°	66.8	66.1	75.7	118.8	201.8	246.4	422.7	482.0	544.0	588.9	605.3
80°	46.7	47.5	54.2	81.6	157.3	253.5	263.5	277.2	290.2	304.6	307.6
82.5°	31.2	31.5	40.1	56.1	109.1	241.9	246.0	239.7	229.7	217.1	203.4
85°	18.9	19.6	28.5	37.8	84.6	218.9	254.6	237.8	222.7	205.9	189.2
87.5°	9.6	10.7	17.1	22.3	50.1	108.0	264.9	252.7	231.9	206.3	187.8
90°	7.7	7.7	10.8	13.7	18.2	29.1	74.0	67.5	37.6	65.0	36.2
92.5°	4.1	4.1	5.1	6.1	6.1	6.1	7.2	7.2	7.2	7.2	7.2
95°	5.1	5.1	6.1	7.2	7.2	7.2	7.2	7.3	7.4	7.5	7.6
97.5°	7.2	7.2	8.2	8.2	9.2	9.2	12.3	12.1	11.9	11.7	11.5
100°	8.2	8.2	9.2	10.2	12.3	21.5	29.7	29.4	29.1	28.7	28.4
102.5°	11.3	11.3	13.3	18.4	27.6	40.9	51.1	50.8	50.5	50.2	49.9
105°	21.5	22.5	27.6	36.8	49.1	64.4	73.7	73.4	73.2	73.0	72.8
107.5°	41.9	43.0	50.1	59.3	74.7	90.0	97.2	97.1	97.0	96.9	96.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	67.5	69.6	75.7	89.0	104.3	116.6	122.8	122.9	123.0	123.1	123.2
112.5°	101.3	101.3	108.4	123.8	137.1	146.3	151.4	151.6	151.8	152.0	152.2
115°	143.2	142.2	150.4	162.6	171.9	178.0	183.1	183.4	183.7	184.0	184.3
117.5°	188.2	188.2	193.3	201.5	206.6	209.7	215.8	216.3	216.7	217.1	217.5
120°	230.2	228.1	231.2	238.3	242.4	248.6	251.6	252.1	252.5	252.9	253.3
122.5°	269.0	266.0	267.0	273.1	277.2	283.4	285.4	285.8	286.2	286.6	287.0
125°	304.8	300.7	302.8	305.9	312.0	317.1	320.2	320.4	320.6	320.8	321.0
127.5°	337.6	336.6	336.6	340.6	346.8	347.8	352.9	353.0	353.1	353.2	353.3
130°	371.3	369.3	370.3	374.4	378.5	380.5	385.7	386.1	386.5	386.9	387.3
132.5°	405.1	403.0	402.0	410.2	413.3	414.3	420.4	420.9	421.5	422.0	422.5
135°	438.8	435.8	435.8	441.9	445.0	447.0	453.2	453.7	454.2	454.7	455.2
137.5°	470.6	467.5	469.5	470.6	474.6	478.7	483.9	484.1	484.3	484.5	484.7
140°	499.2	496.1	498.2	500.2	502.3	508.4	511.5	511.7	511.9	512.1	512.3
142.5°	529.9	526.8	528.9	529.9	533.0	537.0	539.1	539.7	540.3	540.9	541.6
145°	562.6	558.5	556.5	559.6	562.6	563.6	568.8	569.4	570.0	570.6	571.2
147.5°	588.2	585.1	584.1	587.2	587.2	588.2	593.3	593.8	594.3	594.8	595.4
150°	608.7	605.6	606.6	606.6	606.6	606.6	610.7	611.0	611.3	611.6	611.9
152.5°	625.0	622.0	622.0	623.0	624.0	624.0	625.0	625.3	625.6	625.9	626.3
155°	643.4	639.3	639.3	641.4	644.5	642.4	640.4	640.9	641.4	641.9	642.4
157.5°	660.8	657.8	657.8	658.8	660.8	659.8	658.8	659.2	659.6	660.0	660.4
160°	678.2	675.1	674.1	671.1	670.0	670.0	673.1	673.7	674.3	674.9	675.6
162.5°	688.4	684.4	684.4	680.3	676.2	678.2	682.3	682.7	683.1	683.5	683.9
165°	696.6	693.6	691.5	691.5	688.4	688.4	687.4	687.9	688.4	689.0	689.5
167.5°	705.8	702.8	699.7	701.7	703.8	700.7	693.6	694.2	694.8	695.4	696.0
170°	714.0	711.0	707.9	707.9	708.9	706.9	701.7	702.1	702.4	702.7	703.0
172.5°	715.0	713.0	711.0	708.9	705.8	705.8	704.8	705.1	705.4	705.7	706.0
175°	716.1	714.0	713.0	711.0	706.9	705.8	705.8	706.3	706.9	707.4	707.9
177.5°	723.2	721.2	716.1	715.0	713.0	711.0	709.9	710.4	711.0	711.5	712.0
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6
2.5°	667.6	668.3	667.6	666.5	667.6	666.5	666.1	665.7	666.1	665.3	665.0
5°	664.2	665.0	665.0	662.8	662.4	663.9	661.6	662.4	661.6	660.9	659.4
7.5°	648.2	648.7	649.1	647.5	648.7	648.7	647.9	647.9	647.2	647.5	646.1
10°	626.0	627.5	629.0	628.3	627.9	631.3	629.7	630.9	630.9	629.7	630.1
12.5°	601.9	604.5	606.3	606.3	607.8	611.5	611.2	611.9	614.9	614.9	613.8
15°	579.6	582.3	585.2	587.4	590.3	593.0	594.8	597.8	599.3	599.3	601.2
17.5°	562.2	565.9	569.3	570.4	574.5	578.9	580.0	583.7	585.9	587.1	589.3
20°	545.1	549.2	553.3	557.0	560.7	565.9	568.5	570.7	574.5	576.6	580.0
22.5°	525.1	531.4	536.5	541.0	547.4	551.8	557.0	560.7	565.2	568.5	571.1
25°	506.2	514.6	521.7	526.2	534.7	541.0	547.4	552.9	558.5	563.3	567.0
27.5°	488.8	498.4	506.9	513.9	523.2	533.3	539.6	548.8	556.3	562.9	567.4
30°	480.2	488.4	497.3	505.4	514.6	527.3	537.7	549.5	558.8	567.4	574.1
32.5°	482.0	489.5	497.3	504.3	513.9	528.0	538.8	552.5	566.3	577.5	585.9
35°	496.8	503.6	508.7	515.1	523.6	534.4	545.8	560.4	577.5	592.3	603.3
37.5°	528.0	529.9	535.1	539.9	544.4	554.4	565.2	577.5	597.1	612.6	628.3
40°	566.6	571.4	576.3	578.5	583.7	590.0	594.8	607.8	625.2	645.7	662.8
42.5°	624.2	626.0	626.8	627.5	629.3	633.8	640.9	652.7	669.8	688.0	707.0
45°	688.8	691.0	693.2	694.3	691.7	694.3	701.7	707.3	723.9	741.0	765.2
47.5°	778.2	771.5	768.1	772.6	770.4	775.9	779.3	782.7	802.6	823.1	843.5
50°	892.8	888.7	883.5	883.9	888.0	884.3	886.5	898.8	905.4	922.5	949.6
52.5°	1076.1	1063.6	1043.8	1035.3	1040.1	1037.2	1038.3	1040.9	1036.5	1052.4	1075.4
55°	1302.5	1286.2	1273.2	1265.8	1238.3	1236.0	1217.9	1211.2	1196.8	1212.0	1206.8
57.5°	1463.9	1453.5	1446.9	1424.6	1412.0	1386.7	1379.3	1370.4	1350.4	1360.4	1369.3
60°	1775.6	1738.5	1725.9	1686.9	1674.0	1649.8	1619.0	1603.8	1593.5	1603.1	1597.1
62.5°	2295.9	2244.4	2234.3	2141.9	2119.2	2063.6	2005.7	1997.9	1965.3	1944.8	1940.0
65°	2803.9	2730.1	2674.8	2573.8	2505.5	2426.1	2337.9	2273.3	2206.8	2173.5	2129.3
66°	2841.8	2812.4	2756.8	2697.8	2598.3	2511.5	2411.3	2341.5	2267.0	2208.3	2170.5
67.5°	2777.2	2761.6	2741.9	2701.8	2639.5	2558.6	2463.7	2374.6	2284.8	2215.7	2155.3
70°	2347.5	2364.6	2386.9	2376.4	2340.8	2309.2	2225.4	2175.7	2108.1	2017.6	1980.4
72.5°	1772.0	1817.6	1802.0	1743.3	1715.9	1694.0	1663.5	1630.2	1533.3	1522.2	1478.4
75°	1140.0	1124.7	1134.8	1063.6	1014.9	994.9	922.5	892.8	820.1	772.9	736.9
77.5°	600.8	571.1	548.1	485.4	440.5	414.1	378.9	337.3	273.5	269.8	211.5
80°	278.7	256.0	235.3	213.4	191.5	162.5	141.0	115.1	101.7	87.2	81.2
82.5°	189.2	174.8	162.1	147.7	131.0	111.0	95.7	81.2	69.4	62.3	56.8
85°	171.4	155.9	141.8	123.6	106.1	89.4	73.1	60.5	49.3	43.1	39.4
87.5°	166.6	147.3	132.5	112.8	95.7	78.7	63.1	49.0	38.3	31.2	26.7
90°	29.4	31.0	25.0	24.3	15.7	17.7	15.5	12.9	13.3	12.2	12.6
92.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.1	7.0	6.9	6.8	6.6
95°	7.7	7.8	7.9	8.0	8.1	8.2	8.1	8.0	7.9	7.8	7.7
97.5°	11.3	11.0	10.8	10.6	10.4	10.2	10.1	10.0	9.9	9.8	9.7
100°	28.1	27.8	27.5	27.2	26.9	26.6	26.3	26.0	25.7	25.4	25.1
102.5°	49.6	49.3	49.0	48.7	48.4	48.1	47.6	47.1	46.5	46.0	45.5
105°	72.6	72.4	72.2	72.0	71.8	71.6	71.1	70.6	70.1	69.6	69.0
107.5°	96.7	96.6	96.5	96.4	96.3	96.2	95.7	95.3	94.9	94.5	94.1



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	123.3	123.4	123.5	123.6	123.7	123.8	123.6	123.4	123.2	123.0	122.8
112.5°	152.4	152.6	152.8	153.0	153.2	153.4	153.3	153.2	153.1	153.0	152.9
115°	184.6	184.9	185.3	185.6	185.9	186.2	185.9	185.6	185.3	184.9	184.6
117.5°	217.9	218.3	218.7	219.1	219.5	219.9	219.4	218.9	218.4	217.9	217.4
120°	253.7	254.1	254.5	254.9	255.3	255.7	255.2	254.7	254.2	253.7	253.2
122.5°	287.4	287.9	288.3	288.7	289.1	289.5	289.0	288.5	288.0	287.4	286.9
125°	321.2	321.4	321.6	321.8	322.0	322.2	321.7	321.2	320.7	320.2	319.7
127.5°	353.4	353.5	353.6	353.7	353.8	353.9	353.9	353.9	353.9	353.9	353.9
130°	387.7	388.1	388.5	388.9	389.3	389.7	389.7	389.7	389.7	389.7	389.7
132.5°	423.0	423.5	424.0	424.5	425.0	425.5	425.3	425.1	424.9	424.7	424.5
135°	455.7	456.2	456.7	457.3	457.8	458.3	458.2	458.1	458.0	457.9	457.8
137.5°	484.9	485.1	485.3	485.5	485.7	485.9	486.0	486.1	486.2	486.3	486.4
140°	512.5	512.7	512.9	513.1	513.3	513.5	513.7	513.9	514.1	514.3	514.5
142.5°	542.2	542.8	543.4	544.0	544.6	545.2	545.2	545.2	545.2	545.2	545.2
145°	571.8	572.4	573.1	573.7	574.3	574.9	574.8	574.7	574.6	574.5	574.4
147.5°	595.9	596.4	596.9	597.4	597.9	598.4	598.5	598.6	598.7	598.8	598.9
150°	612.2	612.5	612.8	613.2	613.5	613.8	614.1	614.4	614.7	615.0	615.3
152.5°	626.6	626.9	627.2	627.5	627.8	628.1	628.5	628.9	629.3	629.7	630.1
155°	642.9	643.4	643.9	644.5	645.0	645.5	646.0	646.5	647.0	647.5	648.0
157.5°	660.8	661.2	661.6	662.1	662.5	662.9	663.1	663.3	663.5	663.7	663.9
160°	676.2	676.8	677.4	678.0	678.6	679.2	678.9	678.6	678.3	678.0	677.7
162.5°	684.4	684.8	685.2	685.6	686.0	686.4	686.3	686.2	686.1	686.0	685.9
165°	690.0	690.5	691.0	691.5	692.0	692.5	692.8	693.2	693.5	693.8	694.1
167.5°	696.6	697.2	697.9	698.5	699.1	699.7	700.1	700.5	700.9	701.3	701.7
170°	703.3	703.6	703.9	704.2	704.5	704.8	705.3	705.8	706.3	706.9	707.4
172.5°	706.3	706.7	707.0	707.3	707.6	707.9	708.1	708.3	708.5	708.7	708.9
175°	708.4	708.9	709.4	709.9	710.4	711.0	711.1	711.2	711.3	711.4	711.5
177.5°	712.5	713.0	713.5	714.0	714.5	715.0	715.2	715.5	715.7	715.9	716.1
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):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6
2.5°	664.2	663.1	664.2	663.9	662.4	662.8	663.1	661.6	660.9	660.9	660.5
5°	658.3	657.6	658.3	658.0	655.7	655.3	655.3	654.2	652.7	651.6	650.9
7.5°	644.2	645.0	644.6	643.4	642.3	642.3	641.2	638.6	637.2	635.7	634.2
10°	628.3	628.3	628.6	628.3	626.4	625.6	624.2	622.7	623.1	619.3	616.3
12.5°	614.2	614.2	613.8	613.1	611.9	611.5	611.5	607.1	606.0	604.9	601.5
15°	600.8	601.5	601.5	601.5	599.7	599.7	597.8	594.8	594.8	591.5	588.2
17.5°	590.3	591.5	591.2	591.5	591.9	589.6	586.4	584.4	582.3	580.4	575.9
20°	581.4	582.3	582.6	582.6	581.4	580.0	577.0	574.1	572.5	568.9	563.3
22.5°	573.4	574.8	575.2	575.2	573.7	572.5	569.6	565.2	562.2	557.7	552.5
25°	570.0	571.8	570.7	571.4	570.0	567.4	563.3	559.6	555.2	549.5	544.0
27.5°	571.1	573.7	573.0	572.5	570.7	568.9	563.6	559.2	554.0	547.4	540.3
30°	577.8	582.3	580.4	578.9	578.5	574.1	569.3	562.9	557.0	549.2	541.0
32.5°	590.3	592.6	593.0	591.9	590.0	586.4	579.6	571.4	564.8	555.5	545.8
35°	611.2	613.4	612.6	612.6	610.8	604.9	596.7	588.5	579.3	568.9	558.8
37.5°	640.2	644.2	643.4	642.0	639.8	632.7	626.4	616.3	606.0	592.3	580.7
40°	676.5	682.8	688.3	687.2	682.1	675.8	669.8	658.3	647.9	632.7	620.1
42.5°	725.5	734.0	741.0	746.2	744.0	735.9	725.5	720.7	705.8	690.2	677.2
45°	788.2	806.0	812.3	818.6	818.6	813.5	811.2	801.6	785.9	765.2	752.9
47.5°	870.9	894.7	901.7	912.5	918.8	913.2	909.2	892.8	882.4	853.9	850.9
50°	971.5	995.2	1014.6	1027.1	1025.3	1030.1	1020.5	1011.2	996.8	973.3	965.2
52.5°	1099.9	1118.8	1136.3	1143.7	1151.4	1150.4	1148.2	1141.8	1123.6	1111.0	1090.3
55°	1231.6	1247.2	1268.4	1280.6	1290.7	1288.8	1280.2	1265.0	1268.4	1242.1	1230.5
57.5°	1381.6	1398.6	1421.6	1433.2	1437.6	1460.3	1454.6	1452.8	1446.5	1437.2	1425.4
60°	1639.5	1644.3	1663.2	1692.2	1727.8	1720.7	1729.6	1735.5	1740.0	1719.3	1717.7
62.5°	1946.7	1952.6	1969.0	1974.9	1980.1	1980.8	1969.0	1969.0	1948.5	1921.8	1901.1
65°	2114.4	2102.2	2091.0	2084.8	2071.1	2058.8	2041.0	2016.8	1982.4	1941.2	1904.0
66°	2138.6	2113.7	2099.2	2083.2	2061.3	2038.7	2017.6	1984.5	1944.1	1895.1	1846.1
67.5°	2115.2	2081.1	2047.2	2023.9	1993.4	1952.6	1915.6	1876.9	1838.8	1771.5	1725.9
70°	1901.8	1861.0	1823.9	1772.7	1724.4	1684.4	1620.6	1553.4	1498.1	1427.5	1382.6
72.5°	1412.4	1364.1	1315.8	1243.9	1173.7	1163.3	1083.2	1004.1	961.9	905.1	859.4
75°	697.7	636.8	550.3	511.7	455.7	428.2	413.1	355.9	342.2	286.1	285.4
77.5°	197.0	169.2	150.3	131.0	122.9	116.9	96.5	92.4	83.9	82.3	77.5
80°	74.6	70.5	68.6	66.8	65.0	63.8	63.1	60.1	58.6	56.4	55.3
82.5°	53.8	52.3	49.0	47.9	46.3	44.2	43.8	41.9	40.8	38.6	37.8
85°	36.4	34.5	32.6	30.8	30.1	29.7	28.5	27.8	27.1	26.0	25.6
87.5°	24.4	22.6	20.5	19.6	19.3	19.6	20.0	19.3	18.9	18.2	17.8
90°	12.2	13.3	12.9	12.9	13.7	12.7	12.5	12.7	12.1	11.9	11.4
92.5°	6.5	6.4	6.3	6.2	6.1	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.6	7.5	7.4	7.3	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.6	9.5	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.7	8.6
100°	24.8	24.4	24.1	23.8	23.5	23.1	22.7	22.3	21.9	21.5	21.1
102.5°	45.0	44.5	44.0	43.5	43.0	42.7	42.4	42.0	41.7	41.4	41.1
105°	68.5	68.0	67.5	67.0	66.5	66.1	65.7	65.3	64.9	64.4	64.0
107.5°	93.7	93.3	92.9	92.5	92.1	91.8	91.5	91.1	90.8	90.5	90.2

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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	122.5	122.3	122.1	121.9	121.7	121.4	121.1	120.8	120.5	120.2	119.9	0°
112.5°	152.8	152.7	152.6	152.5	152.4	152.2	152.0	151.8	151.6	151.4	151.2	2.5°
115°	184.3	184.0	183.7	183.4	183.1	182.9	182.7	182.5	182.3	182.1	181.9	5°
117.5°	216.9	216.4	215.8	215.3	214.8	214.6	214.4	214.2	214.0	213.8	213.6	7.5°
120°	252.7	252.2	251.6	251.1	250.6	250.4	250.2	250.0	249.8	249.6	249.4	10°
122.5°	286.4	285.9	285.4	284.9	284.4	284.2	284.0	283.8	283.6	283.4	283.2	12.5°
125°	319.2	318.6	318.1	317.6	317.1	317.1	317.1	317.1	317.1	317.1	317.1	15°
127.5°	353.9	353.9	353.9	353.9	353.9	353.8	353.7	353.6	353.5	353.4	353.3	17.5°
130°	389.7	389.7	389.7	389.7	389.7	389.5	389.3	389.1	388.9	388.7	388.5	20°
132.5°	424.3	424.1	423.9	423.7	423.5	423.5	423.5	423.5	423.5	423.5	423.5	22.5°
135°	457.7	457.6	457.5	457.4	457.3	457.6	457.9	458.2	458.5	458.8	459.1	25°
137.5°	486.5	486.6	486.7	486.8	486.9	487.4	487.9	488.5	489.0	489.5	490.0	27.5°
140°	514.7	515.0	515.2	515.4	515.6	516.1	516.6	517.1	517.6	518.1	518.6	30°
142.5°	545.2	545.2	545.2	545.2	545.2	545.3	545.4	545.5	545.6	545.7	545.8	32.5°
145°	574.3	574.2	574.1	574.0	573.9	573.6	573.3	573.0	572.6	572.3	572.0	35°
147.5°	599.0	599.1	599.2	599.3	599.4	599.1	598.8	598.5	598.2	597.9	597.6	37.5°
150°	615.6	615.9	616.2	616.5	616.8	617.1	617.5	617.8	618.1	618.4	618.7	40°
152.5°	630.5	631.0	631.4	631.8	632.2	632.7	633.2	633.7	634.2	634.7	635.3	42.5°
155°	648.6	649.1	649.6	650.1	650.6	650.8	651.0	651.2	651.4	651.6	651.8	45°
157.5°	664.1	664.3	664.5	664.7	664.9	664.9	664.9	664.9	664.9	664.9	664.9	47.5°
160°	677.4	677.1	676.8	676.5	676.2	676.1	676.0	675.9	675.8	675.7	675.6	50°
162.5°	685.8	685.7	685.6	685.5	685.4	685.2	685.0	684.8	684.6	684.4	684.1	52.5°
165°	694.4	694.7	695.0	695.3	695.6	695.4	695.2	695.0	694.8	694.6	694.4	55°
167.5°	702.2	702.6	703.0	703.4	703.8	703.8	703.8	703.8	703.8	703.8	703.8	57.5°
170°	707.9	708.4	708.9	709.4	709.9	710.1	710.3	710.5	710.7	711.0	711.2	60°
172.5°	709.1	709.3	709.5	709.7	709.9	710.1	710.3	710.5	710.7	711.0	711.2	62.5°
175°	711.6	711.7	711.8	711.9	712.0	711.8	711.6	711.4	711.2	711.0	710.7	65°
177.5°	716.3	716.5	716.7	716.9	717.1	716.8	716.5	716.2	715.9	715.6	715.2	66°
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
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	82°	
657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	110°	119.6
659.8	658.7	659.1	657.6	657.1	658.0	658.3	658.3	657.1	650.5	642.7	112.5°	151.0
650.2	647.9	647.5	646.4	644.6	646.8	645.7	643.8	641.6	633.8	618.6	115°	181.7
632.3	630.9	629.0	627.5	626.4	625.6	625.2	623.4	619.3	604.9	579.3	117.5°	213.4
615.3	613.4	611.2	607.8	606.3	604.2	604.2	599.7	596.7	578.5	540.6	120°	249.2
598.5	595.3	594.1	591.9	587.8	585.9	583.4	578.9	574.5	552.5	502.8	122.5°	282.9
585.9	582.6	577.8	576.3	571.8	567.7	564.5	558.5	553.6	524.7	463.1	125°	317.1
572.2	569.6	564.5	561.1	556.3	551.5	545.8	538.5	535.1	498.4	425.2	127.5°	353.2
561.1	555.2	549.2	546.3	540.3	534.7	529.2	520.3	513.6	472.4	385.1	130°	388.3
548.1	542.9	536.5	531.4	523.2	516.9	510.7	501.3	493.2	446.0	344.7	132.5°	423.5
539.2	531.7	525.1	519.1	509.8	502.5	493.6	483.5	475.4	420.8	300.2	135°	459.4
534.0	526.6	518.0	510.7	499.8	491.3	481.7	470.6	460.1	400.4	258.3	137.5°	490.5
532.5	523.6	514.6	505.4	494.3	483.5	472.0	460.8	447.5	380.7	212.7	140°	519.1
536.9	526.2	516.2	505.0	492.0	479.8	468.3	453.9	440.5	363.7	167.8	142.5°	545.9
549.2	536.2	524.7	512.5	497.7	484.3	470.6	454.2	439.4	351.8	128.4	145°	571.7
568.5	556.3	542.9	530.6	513.6	498.7	483.5	466.1	448.3	347.0	96.9	147.5°	597.3
607.4	591.2	577.5	564.5	544.7	529.6	512.1	490.9	470.9	351.4	80.9	150°	619.0
662.1	641.6	629.0	617.5	593.0	576.3	556.3	532.1	509.5	364.1	71.2	152.5°	635.8
737.3	721.8	699.1	681.3	656.4	637.9	615.6	586.7	561.5	381.9	66.4	155°	652.0
831.6	811.2	788.9	770.7	743.7	711.4	688.0	653.2	624.5	409.7	64.2	157.5°	664.9
947.0	922.5	892.4	877.3	839.7	814.6	783.4	745.8	709.5	452.8	65.3	160°	675.5
1072.5	1046.1	1022.7	993.8	959.6	931.4	901.7	862.0	816.4	534.4	69.8	162.5°	683.9
1204.9	1187.9	1165.6	1128.1	1109.5	1073.9	1036.0	992.3	959.2	640.5	80.5	165°	694.2
1397.9	1379.3	1376.7	1340.0	1311.8	1279.5	1249.8	1213.4	1174.4	829.0	105.8	167.5°	703.8
1694.7	1675.5	1653.6	1625.0	1591.6	1551.5	1514.8	1465.8	1422.4	1017.8	117.6	170°	711.4
1870.7	1835.0	1795.7	1752.2	1703.6	1653.9	1604.6	1541.9	1478.8	1029.4	106.1	172.5°	711.4
1855.8	1811.6	1761.5	1702.5	1651.3	1590.1	1537.0	1456.2	1398.6	916.6	86.4	175°	710.5
1800.9	1740.3	1693.3	1639.1	1574.8	1520.0	1463.9	1384.2	1318.5	840.5	79.1	177.5°	714.9
1660.2	1608.7	1543.3	1491.4	1443.9	1378.2	1325.5	1251.0	1205.6	728.9	70.9	180°	716.1
1327.0	1255.8	1200.4	1160.0	1106.2	1046.8	1000.0	937.3	897.3	482.4	61.3		
772.9	755.1	693.2	658.3	625.6	577.5	540.3	510.2	457.6	233.7	54.2		
238.2	221.6	219.3	186.3	197.0	168.5	164.0	149.1	149.1	89.8	42.7		
76.1	74.6	71.6	67.5	66.1	66.1	64.2	63.8	60.9	48.3	31.9		
53.8	52.7	51.6	50.4	49.7	50.1	48.6	47.9	47.2	34.9	25.3		
37.1	36.0	33.8	33.8	33.0	32.6	33.0	31.5	31.2	24.4	21.2		
25.3	24.9	24.4	24.1	23.7	23.4	23.0	21.9	21.2	17.1	14.8		
16.7	14.1	13.7	11.9	11.5	11.2	10.4	11.2	12.3	12.3	9.6		
11.5	10.9	11.0	10.8	10.1	10.5	10.5	9.7	9.7	10.8	12.6		
6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1		
7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2		
8.5	8.4	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9.2		
20.7	20.3	19.8	19.4	19.4	19.4	19.4	19.4	19.4	19.4	23.5		
40.8	40.5	40.2	39.9	39.7	39.5	39.3	39.1	38.9	39.9	43.0		
63.6	63.2	62.8	62.4	62.4	62.4	62.4	62.4	62.4	62.4	66.5		
89.9	89.6	89.3	89.0	88.8	88.6	88.4	88.2	88.0	89.0	92.1		

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 ISW-AF-350-LED-E1-SL3-ULG

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TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
119.3	119.0	118.7	118.9	119.1	119.3	119.5	119.7	118.7	121.7	0°	657.6	657.6
150.8	150.6	150.4	150.4	150.4	150.4	150.4	150.4	150.4	152.4	2.5°	636.1	630.1
181.5	181.3	181.1	181.3	181.5	181.7	181.9	182.1	181.1	183.1	5°	602.3	588.9
213.2	213.0	212.8	213.0	213.2	213.4	213.6	213.8	212.8	214.8	7.5°	556.6	530.6
249.0	248.8	248.6	248.6	248.6	248.6	248.6	248.6	248.6	250.6	10°	504.3	466.9
282.7	282.5	282.3	282.5	282.7	282.9	283.2	283.4	282.3	284.4	12.5°	450.1	402.2
317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	15°	399.7	336.2
353.1	353.0	352.9	353.3	353.7	354.1	354.6	355.0	352.9	353.9	17.5°	346.6	268.3
388.1	387.9	387.7	387.9	388.1	388.3	388.5	388.7	387.7	389.7	20°	295.7	202.6
423.5	423.5	423.5	423.7	423.9	424.1	424.3	424.5	423.5	423.5	22.5°	238.2	142.1
459.7	460.0	460.3	460.5	460.7	460.9	461.1	461.4	460.3	457.3	25°	174.8	103.1
491.0	491.5	492.0	492.2	492.4	492.7	492.9	493.1	492.0	486.9	27.5°	124.7	82.3
519.7	520.2	520.7	521.1	521.5	521.9	522.3	522.7	520.7	515.6	30°	93.2	69.4
546.1	546.2	546.3	546.7	547.1	547.5	547.9	548.3	546.3	545.2	32.5°	74.6	60.1
571.4	571.1	570.8	571.2	571.6	572.0	572.4	572.9	570.8	573.9	35°	63.4	54.5
597.0	596.7	596.4	596.8	597.2	597.6	598.0	598.4	596.4	599.4	37.5°	56.8	50.8
619.3	619.6	619.9	620.7	621.5	622.4	623.2	624.0	619.9	616.8	40°	53.1	49.0
636.3	636.8	637.3	638.3	639.3	640.4	641.4	642.4	637.3	632.2	42.5°	50.8	47.2
652.2	652.4	652.6	653.3	653.9	654.5	655.1	655.7	652.6	650.6	45°	49.7	46.0
664.9	664.9	664.9	665.9	667.0	668.0	669.0	670.0	664.9	664.9	47.5°	49.0	44.5
675.4	675.2	675.1	676.4	677.6	678.8	680.1	681.3	675.1	676.2	50°	48.3	44.5
683.7	683.5	683.3	684.6	685.8	687.0	688.2	689.5	683.3	685.4	52.5°	48.6	45.3
694.0	693.8	693.6	694.4	695.2	696.0	696.8	697.7	693.6	695.6	55°	50.4	45.3
703.8	703.8	703.8	705.0	706.2	707.5	708.7	709.9	703.8	703.8	57.5°	53.4	45.3
711.6	711.8	712.0	713.0	714.0	715.0	716.1	717.1	712.0	709.9	60°	55.6	46.0
711.6	711.8	712.0	713.0	714.0	715.0	716.1	717.1	712.0	709.9	62.5°	56.4	47.5
710.3	710.1	709.9	711.0	712.0	713.0	714.0	715.0	709.9	712.0	65°	55.6	48.3
714.6	714.3	714.0	714.8	715.7	716.5	717.3	718.1	714.0	717.1	66°	54.9	48.3
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	53.8	47.5
										70°	51.2	44.5
										72.5°	46.0	40.1
										75°	39.4	32.3
										77.5°	31.9	26.0
										80°	23.7	19.6
										82.5°	17.4	15.2
										85°	12.3	10.7
										87.5°	7.5	6.6
										90°	11.0	9.0
										92.5°	7.2	7.2
										95°	8.2	7.2
										97.5°	10.2	12.3
										100°	26.6	29.7
										102.5°	48.1	51.1
										105°	71.6	73.7
										107.5°	96.2	97.2



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tinued):

135°	145°	155°	165°	175°	180°
657.6	657.6	657.6	657.6	657.6	657.6
626.0	625.6	616.3	614.5	608.2	611.5
573.0	566.6	549.9	546.6	539.6	537.7
509.5	492.0	478.7	463.8	449.8	456.8
435.3	406.0	376.7	357.3	349.5	347.0
364.8	312.1	275.4	237.5	224.1	228.9
279.5	219.3	170.3	148.4	135.8	133.6
197.0	140.7	118.0	112.4	109.9	109.9
133.6	107.2	98.7	96.2	96.2	96.5
101.7	90.2	86.4	86.8	88.3	88.7
84.2	79.8	77.9	80.5	83.5	83.9
72.7	71.6	72.0	75.3	78.3	78.7
63.8	65.0	66.4	69.4	72.0	72.7
57.5	59.3	60.5	62.3	63.8	64.2
53.1	55.3	54.9	56.1	57.2	57.5
50.4	51.6	50.4	51.2	51.2	52.0
48.3	48.6	46.7	47.2	47.9	47.9
46.0	45.6	43.8	44.5	45.6	46.0
43.8	43.1	41.5	43.1	44.9	45.3
41.9	41.2	40.4	42.4	44.5	44.9
41.2	40.4	39.7	42.4	44.5	44.9
41.2	40.4	39.7	41.5	43.8	44.2
41.5	40.8	39.4	41.2	42.7	43.1
41.9	41.2	38.6	39.7	40.4	40.8
41.9	40.4	37.8	38.3	38.3	38.6
41.2	39.4	36.4	36.4	36.0	36.0
41.2	37.8	34.9	34.2	33.3	33.3
40.8	37.4	34.5	33.3	32.3	32.3
40.1	36.7	33.8	32.3	31.2	31.2
37.4	35.3	31.9	30.4	29.4	28.9
33.3	32.3	29.7	28.5	27.4	27.1
28.2	28.5	27.1	26.4	25.3	24.9
23.7	24.4	23.7	23.4	22.6	22.3
18.9	20.5	19.6	19.6	20.0	19.3
14.4	16.4	15.5	16.4	17.1	16.0
10.0	11.9	11.9	12.3	12.6	11.9
6.3	7.8	7.5	7.8	7.8	7.5
8.7	10.7	9.7	9.4	7.0	6.6
6.1	6.1	6.1	5.1	4.1	4.1
7.2	7.2	7.2	6.1	5.1	5.1
9.2	9.2	8.2	8.2	7.2	7.2
21.5	12.3	10.2	9.2	8.2	8.2
40.9	27.6	18.4	13.3	11.3	11.3
64.4	49.1	36.8	27.6	22.5	21.5
90.0	74.7	59.3	50.1	43.0	41.9

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
110°	123.8	122.8	116.6
112.5°	153.4	151.4	146.3
115°	186.2	183.1	178.0
117.5°	219.9	215.8	209.7
120°	255.7	251.6	248.6
122.5°	289.5	285.4	283.4
125°	322.2	320.2	317.1
127.5°	353.9	352.9	347.8
130°	389.7	385.7	380.5
132.5°	425.5	420.4	414.3
135°	458.3	453.2	447.0
137.5°	485.9	483.9	478.7
140°	513.5	511.5	508.4
142.5°	545.2	539.1	537.0
145°	574.9	568.8	563.6
147.5°	598.4	593.3	588.2
150°	613.8	610.7	606.6
152.5°	628.1	625.0	624.0
155°	645.5	640.4	642.4
157.5°	662.9	658.8	659.8
160°	679.2	673.1	670.0
162.5°	686.4	682.3	678.2
165°	692.5	687.4	688.4
167.5°	699.7	693.6	700.7
170°	704.8	701.7	706.9
172.5°	707.9	704.8	705.8
175°	711.0	705.8	705.8
177.5°	715.0	709.9	711.0
180°	716.1	716.1	716.1



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145°	155°	165°	175°	180°
104.3	89.0	75.7	69.6	67.5
137.1	123.8	108.4	101.3	101.3
171.9	162.6	150.4	142.2	143.2
206.6	201.5	193.3	188.2	188.2
242.4	238.3	231.2	228.1	230.2
277.2	273.1	267.0	266.0	269.0
312.0	305.9	302.8	300.7	304.8
346.8	340.6	336.6	336.6	337.6
378.5	374.4	370.3	369.3	371.3
413.3	410.2	402.0	403.0	405.1
445.0	441.9	435.8	435.8	438.8
474.6	470.6	469.5	467.5	470.6
502.3	500.2	498.2	496.1	499.2
533.0	529.9	528.9	526.8	529.9
562.6	559.6	556.5	558.5	562.6
587.2	587.2	584.1	585.1	588.2
606.6	606.6	606.6	605.6	608.7
624.0	623.0	622.0	622.0	625.0
644.5	641.4	639.3	639.3	643.4
660.8	658.8	657.8	657.8	660.8
670.0	671.1	674.1	675.1	678.2
676.2	680.3	684.4	684.4	688.4
688.4	691.5	691.5	693.6	696.6
703.8	701.7	699.7	702.8	705.8
708.9	707.9	707.9	711.0	714.0
705.8	708.9	711.0	713.0	715.0
706.9	711.0	713.0	714.0	716.1
713.0	715.0	716.1	721.2	723.2
716.1	716.1	716.1	716.1	716.1

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