

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: P228328

Luminaire Tested: **ISS-AF-350-LED-E1-SL4-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29763)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-350-LED-E1-SL4-7050-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3536.2 lumens
Efficiency: N/A
Efficacy: 96.1 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: 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

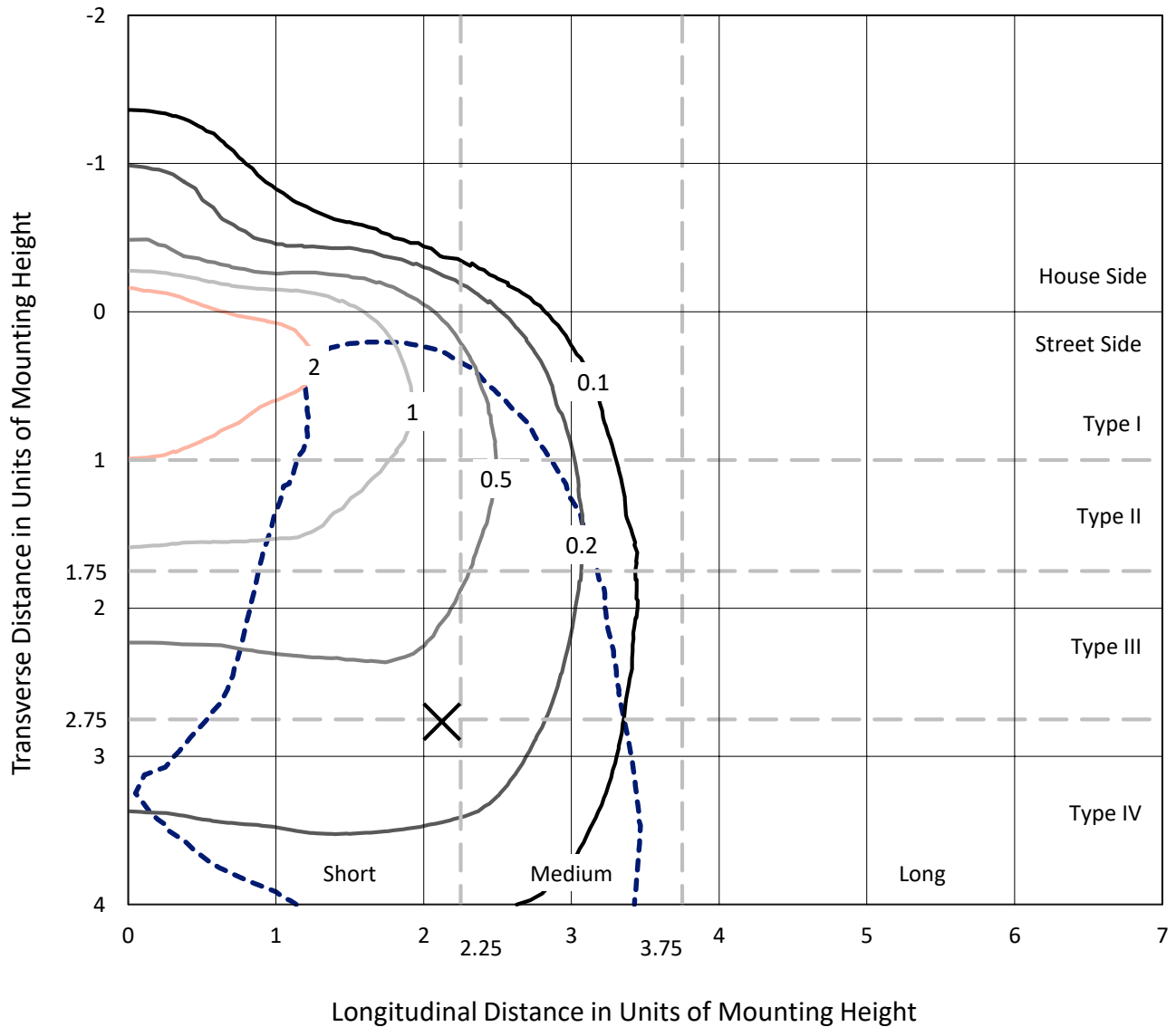


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

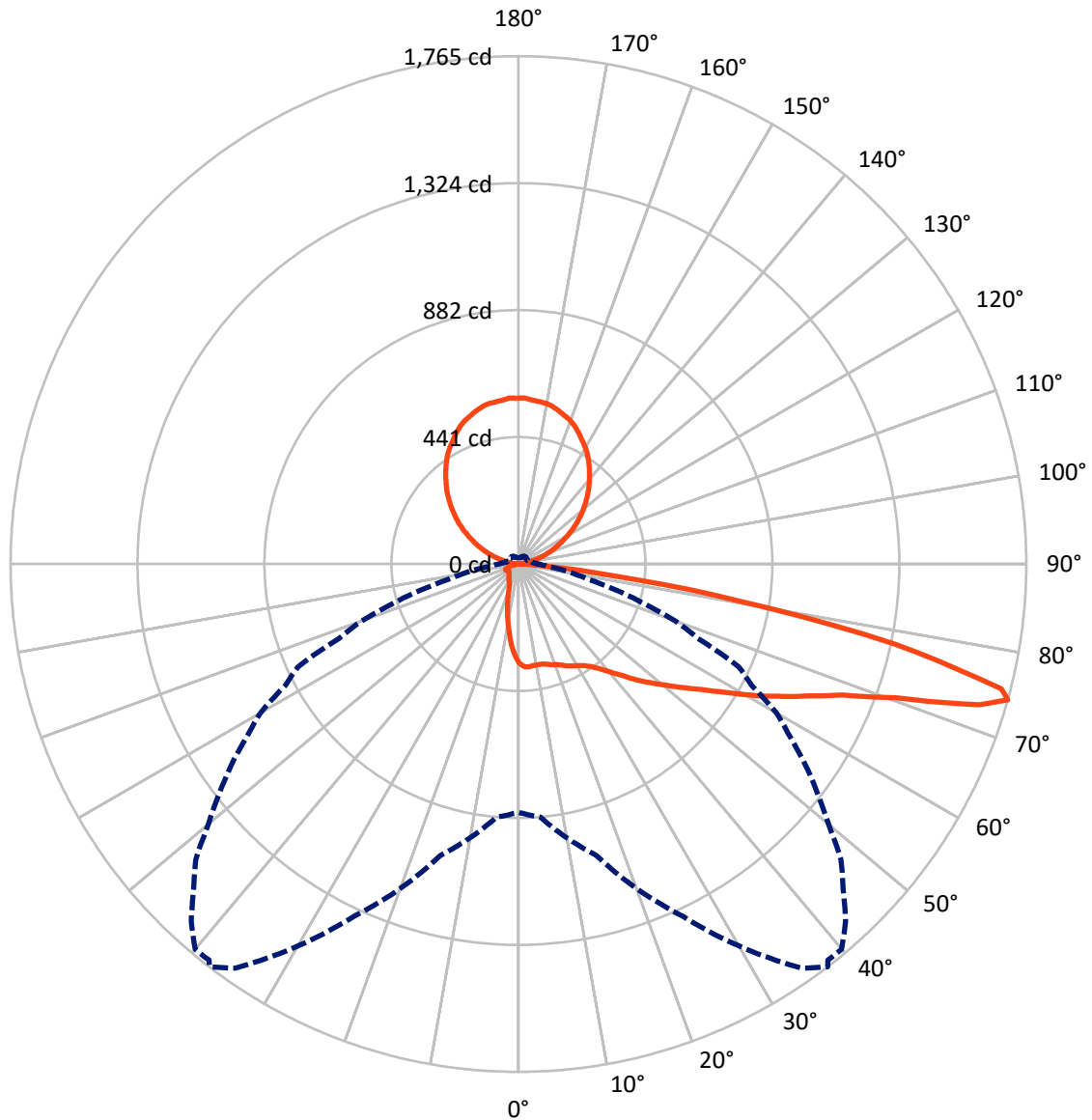


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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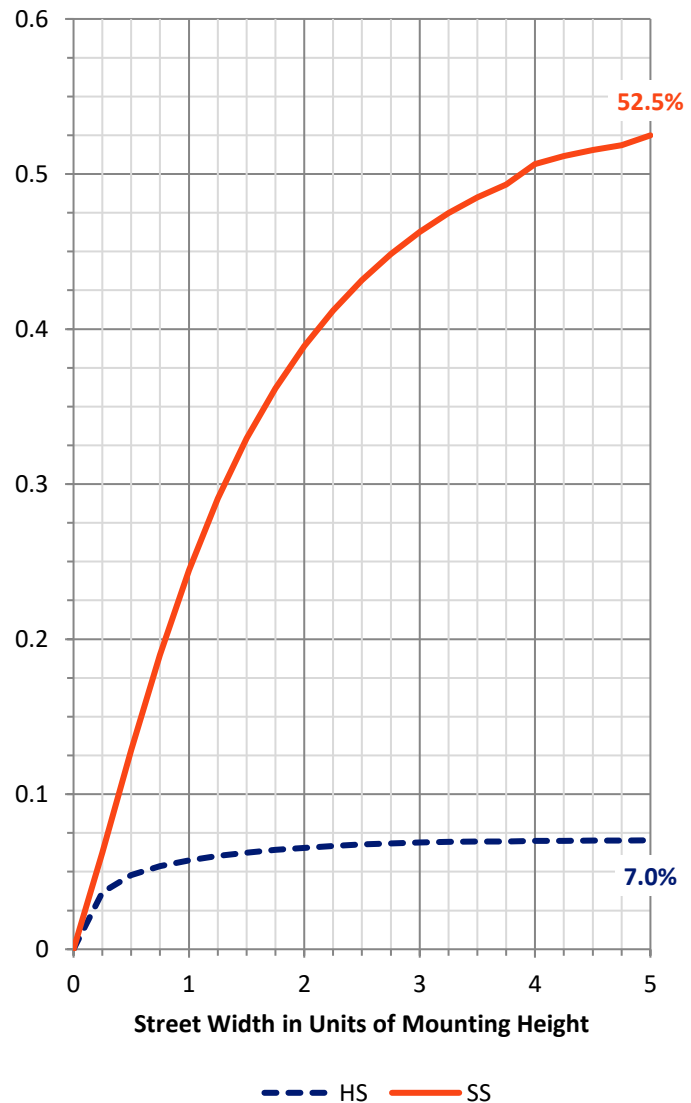
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	250.2	713.1	963.3
	% Fixture	7.1	20.2	27.2
Street Side	Lumens	1859.8	713.1	2572.9
	% Fixture	52.6	20.2	72.8
Total	Lumens	2110.0	1426.2	3536.2
	% Fixture	59.7	40.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.0	0.8
10°-20°	76.4	2.2
20°-30°	118.3	3.3
30°-40°	175.5	5.0
40°-50°	270.0	7.6
50°-60°	399.1	11.3
60°-70°	532.0	15.0
70°-80°	459.2	13.0
80°-90°	49.4	1.4
90°-100°	4.7	0.1
100°-110°	69.0	2.0
110°-120°	153.0	4.3
120°-130°	223.9	6.3
130°-140°	265.6	7.5
140°-150°	269.3	7.6
150°-160°	231.1	6.5
160°-170°	155.1	4.4
170°-180°	54.3	1.5
0°-90°	2110.0	59.7
0°-180°	3536.2	100.0



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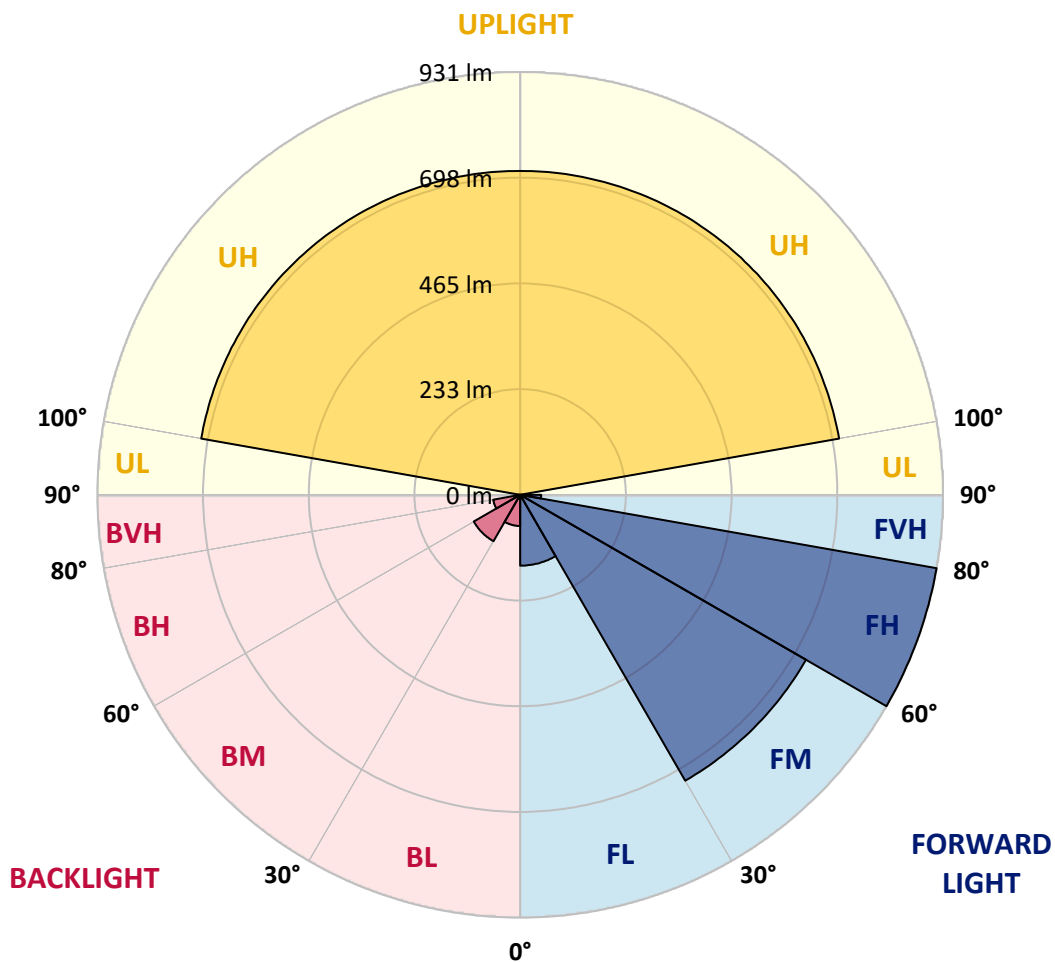
CATALOG NUMBER: ISS-AF-350-LED-E1-SL4-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.0	4.4			
FM (30°-60°)	726.7	20.6			
FH (60°-80°)	930.9	26.3			G1/1800
FVH (80°-90°)	46.1	1.3			G1/100
BL (0°-30°)	68.7	1.9	B0/110		
BM (30°-60°)	117.9	3.3	B0/220		
BH (60°-80°)	60.3	1.7	B0/110		G0/110
BVH (80°-90°)	3.2	0.1			G0/10
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	20.2		U4/1000	

BUG Rating: B0-U5-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
0°	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3
2.5°	364.0	363.2	361.7	360.9	359.3	356.9	359.3	356.1	354.6	356.1	353.0
5°	370.3	369.5	368.0	364.8	363.2	359.3	361.7	357.7	356.9	358.5	354.6
7.5°	371.1	369.5	367.2	363.2	361.7	356.9	358.5	353.8	352.2	353.8	351.4
10°	368.7	368.0	365.6	359.3	357.7	356.1	355.3	352.2	351.4	350.6	349.8
12.5°	364.8	364.8	363.2	360.9	360.1	356.9	357.7	354.6	355.3	353.8	352.2
15°	363.2	362.4	364.0	365.6	365.6	360.9	364.0	361.7	360.1	360.9	358.5
17.5°	361.7	362.4	368.0	371.1	372.7	368.0	372.7	368.0	364.8	368.7	364.8
20°	360.9	363.2	372.7	379.8	380.6	372.7	380.6	372.7	372.7	377.4	370.3
22.5°	364.8	368.7	382.1	390.0	391.6	381.4	390.8	380.6	380.6	384.5	377.4
25°	377.4	381.4	396.3	405.0	403.4	392.4	401.0	390.8	390.0	394.7	385.3
27.5°	394.0	399.5	413.7	421.5	416.0	401.0	413.7	398.7	398.7	405.8	393.2
30°	417.6	421.5	434.1	434.9	427.8	409.7	423.9	407.4	405.0	417.6	401.8
32.5°	443.6	446.7	456.2	450.7	440.4	421.5	438.1	418.4	417.6	431.0	412.9
35°	471.2	474.3	477.5	468.0	458.6	438.1	456.2	436.5	435.7	450.7	433.4
37.5°	499.5	499.5	499.5	488.5	482.2	462.5	479.1	463.3	461.7	477.5	460.9
40°	522.4	524.0	521.6	511.4	508.2	494.0	508.2	494.0	496.4	510.6	497.2
42.5°	541.3	542.9	543.7	535.0	538.1	530.3	541.3	531.1	531.8	547.6	539.7
45°	560.2	559.4	565.7	563.4	572.8	573.6	579.9	576.0	577.5	589.4	587.0
47.5°	579.9	576.0	583.1	593.3	610.6	616.1	620.1	621.7	628.0	633.5	639.0
50°	598.8	594.9	599.6	622.5	650.0	661.8	662.6	670.5	677.6	685.5	696.5
52.5°	618.5	615.4	620.1	652.4	696.5	713.1	710.7	724.1	734.3	743.0	761.1
55°	639.0	635.8	640.6	688.6	746.2	769.0	766.6	785.6	805.2	808.4	828.9
57.5°	658.7	654.8	668.2	731.2	805.2	839.9	828.9	858.0	876.9	875.4	903.7
60°	680.0	676.8	698.1	783.2	879.3	924.2	907.7	946.3	959.7	954.2	981.0
62.5°	700.5	699.7	735.1	843.9	969.1	1012.5	997.5	1031.4	1040.8	1033.7	1047.1
65°	719.4	724.1	775.3	904.5	1055.8	1105.4	1085.0	1118.8	1129.9	1124.4	1147.2
67.5°	750.9	756.4	824.9	981.7	1163.0	1214.2	1196.8	1232.3	1248.8	1247.3	1272.5
70°	797.4	807.6	898.2	1091.3	1326.1	1391.5	1382.0	1425.3	1465.5	1462.4	1487.6
72.5°	878.5	895.1	1018.8	1261.5	1594.0	1673.5	1662.5	1686.9	1679.8	1622.3	1575.8
74°	862.8	883.3	1048.7	1350.5	1714.5	1764.9	1746.8	1747.6	1683.0	1595.5	1520.7
75°	805.2	826.5	1005.4	1339.5	1705.8	1733.4	1707.4	1675.1	1597.1	1508.1	1415.9
77.5°	552.3	579.9	739.1	1081.8	1373.3	1335.5	1329.2	1267.8	1164.5	1064.5	946.3
80°	282.9	302.6	382.1	565.7	814.7	776.9	789.5	739.9	654.0	581.5	460.9
82.5°	67.8	72.5	112.7	219.0	353.0	323.0	327.8	290.0	240.3	196.2	152.1
85°	35.5	40.2	55.2	60.7	93.0	96.1	93.8	90.6	74.1	62.2	54.4
87.5°	0.0	0.0	0.0	1.6	0.8	0.0	0.8	0.0	0.0	0.8	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.2	5.5	6.5	7.8	9.0	10.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	24.4	26.0	28.0	30.0	30.5
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	46.5	47.5	48.8	50.0	50.2
105°	54.0	54.0	56.0	61.0	66.0	67.0	67.2	68.0	69.0	70.0	70.2
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	88.9	89.5	90.2	91.0	91.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
110°	101.0	102.0	103.0	106.0	110.0	110.5	110.6	111.0	111.5	112.0	112.5
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	132.6	133.0	133.5	134.0	134.5
115°	146.0	147.0	149.0	151.0	154.0	154.5	154.6	155.0	155.5	156.0	156.5
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	177.6	178.0	178.5	179.0	179.2
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.3	201.5	201.8	202.0	202.5
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.3	226.5	226.8	227.0	227.2
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.3	251.5	251.8	252.0	252.2
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	274.6	275.0	275.5	276.0	276.5
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.3	298.5	298.8	299.0	299.5
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.3	321.5	321.8	322.0	322.8
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.0	345.8
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.0	367.5
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.3	388.5	388.8	389.0	389.2
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.0	410.5
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.3	431.5	431.8	432.0	432.5
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.3	452.5	452.8	453.0	453.2
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.3	469.5	469.8	470.0	470.2
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.3	485.5	485.8	486.0	486.2
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.0	503.2
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.0	541.2
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.0	552.2
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.7	560.5	560.2	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.7	566.5	566.2	566.0	565.8
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.7	568.5	568.2	568.0	568.2
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.0	572.2
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.7	577.5	577.2	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3
2.5°	355.3	353.8	355.3	350.6	353.0	349.0	350.6	346.7	348.3	345.1	345.9
5°	356.9	353.0	355.3	351.4	352.2	349.0	348.3	346.7	345.9	343.5	342.0
7.5°	353.0	349.8	349.0	347.5	345.1	345.9	342.7	342.0	339.6	339.6	334.9
10°	349.0	349.8	345.1	346.7	342.7	343.5	338.0	339.6	335.7	338.8	331.7
12.5°	352.2	353.0	349.0	351.4	344.3	345.9	341.2	343.5	338.0	342.0	333.3
15°	359.3	358.5	356.9	356.9	349.8	353.0	347.5	349.0	343.5	348.3	338.8
17.5°	365.6	364.8	362.4	361.7	356.9	357.7	352.2	355.3	349.0	353.0	343.5
20°	372.7	368.7	368.0	367.2	361.7	361.7	357.7	359.3	353.0	357.7	346.7
22.5°	378.2	375.0	374.3	371.1	367.2	368.7	363.2	364.0	357.7	362.4	353.0
25°	386.9	382.9	382.9	378.2	375.8	375.0	371.9	374.3	368.0	371.1	362.4
27.5°	398.7	390.0	393.2	388.4	386.9	386.1	384.5	386.1	381.4	383.7	375.0
30°	409.7	398.7	403.4	397.1	400.3	397.1	399.5	397.1	397.1	397.1	393.2
32.5°	424.7	411.3	420.7	411.3	417.6	412.9	420.7	416.0	419.2	418.4	416.8
35°	446.0	430.2	443.6	431.0	442.0	435.7	446.7	444.4	450.7	447.5	450.7
37.5°	474.3	457.8	473.5	461.7	475.1	465.7	481.4	479.8	493.2	488.5	493.2
40°	509.8	498.0	509.8	501.1	515.3	511.4	527.9	528.7	543.7	541.3	546.8
42.5°	549.2	540.5	552.3	547.6	561.8	564.9	583.8	588.6	602.8	606.7	607.5
45°	591.7	590.1	599.6	604.3	618.5	628.0	644.5	656.3	672.1	680.8	679.2
47.5°	641.4	647.7	654.0	665.8	678.4	698.1	714.6	729.6	747.7	753.2	755.6
50°	697.3	708.3	713.9	730.4	743.0	767.4	790.3	809.2	828.9	826.5	828.1
52.5°	756.4	770.6	778.5	798.2	814.7	843.1	862.8	880.9	905.3	899.0	896.6
55°	821.8	843.1	849.4	871.4	885.6	914.8	932.1	963.6	973.9	967.6	954.2
57.5°	891.1	916.3	923.4	953.4	960.5	992.0	1007.0	1028.2	1036.9	1026.7	1009.3
60°	969.9	992.8	998.3	1025.1	1034.5	1063.7	1074.7	1093.6	1099.9	1074.7	1050.3
62.5°	1048.7	1072.4	1075.5	1099.1	1108.6	1133.8	1146.4	1157.4	1154.3	1117.3	1086.5
65°	1138.5	1161.4	1169.3	1192.9	1198.4	1217.3	1227.6	1215.0	1207.9	1151.9	1117.3
67.5°	1281.1	1305.6	1308.7	1314.2	1313.5	1304.0	1299.3	1255.9	1224.4	1121.2	1071.6
70°	1468.7	1450.6	1415.1	1374.1	1344.2	1290.6	1259.1	1170.1	1103.9	988.0	904.5
72.5°	1502.6	1443.5	1356.0	1285.9	1213.4	1129.1	1061.3	926.6	833.6	712.3	624.0
74°	1406.4	1310.3	1218.1	1119.6	1036.1	913.2	844.6	674.5	582.3	459.4	352.2
75°	1290.6	1177.9	1073.9	948.6	870.6	723.3	658.7	475.1	382.9	272.6	183.6
77.5°	823.4	688.6	589.4	444.4	383.7	264.7	193.8	120.6	89.0	78.0	67.8
80°	369.5	263.2	208.8	144.2	120.6	92.2	78.0	63.0	57.5	50.4	48.1
82.5°	118.2	94.5	89.8	80.4	80.4	64.6	55.2	43.3	39.4	33.9	30.7
85°	51.2	48.1	49.6	45.7	46.5	35.5	28.4	21.3	21.3	15.0	13.4
87.5°	1.6	0.0	0.8	0.0	1.6	0.0	0.8	0.0	0.8	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	11.0	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.0	31.5	32.0	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.5	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.5	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.0	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0



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CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.0	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
112.5°	135.0	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.0	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.5	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.0	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.5	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.5	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.0	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.0	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	323.5	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	346.5	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.0	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.5	389.8	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.0	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.0	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.5	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.5	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.5	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.5	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.5	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.5	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.5	565.2	565.0	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.5	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.5	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	577.0	576.2	575.5	574.8	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3
2.5°	342.7	344.3	343.5	340.4	339.6	337.2	331.7	332.5	329.3	331.7	327.8
5°	339.6	338.8	335.7	331.7	327.8	323.0	319.1	317.5	314.4	312.8	310.4
7.5°	334.9	331.7	326.2	319.9	314.4	308.1	304.9	299.4	297.8	292.3	291.5
10°	333.3	327.8	321.5	313.6	304.1	294.7	293.9	284.4	283.6	275.0	272.6
12.5°	336.4	329.3	321.5	312.0	301.0	287.6	287.6	273.4	272.6	260.8	256.9
15°	342.7	334.1	323.8	312.8	298.6	282.1	281.3	264.7	263.2	249.0	244.3
17.5°	348.3	336.4	327.0	312.0	295.5	276.6	272.6	256.1	252.9	236.4	230.1
20°	352.2	338.8	327.8	310.4	290.0	267.9	262.4	245.0	238.0	221.4	212.7
22.5°	356.9	344.3	329.3	309.7	286.8	260.8	249.0	233.2	223.0	205.6	193.8
25°	364.0	353.0	334.9	312.0	284.4	253.7	238.0	221.4	207.2	189.9	172.6
27.5°	375.0	364.0	342.7	315.2	283.6	246.6	229.3	208.8	191.5	172.6	152.9
30°	390.8	379.0	356.1	323.8	284.4	241.1	219.8	197.8	177.3	155.2	134.7
32.5°	411.3	401.8	373.5	333.3	287.6	236.4	211.2	185.9	160.7	139.5	121.3
35°	439.7	433.4	397.9	351.4	295.5	234.0	202.5	174.9	146.6	125.3	105.6
37.5°	481.4	472.7	433.4	377.4	308.1	232.4	196.2	161.5	134.7	111.9	95.3
40°	534.2	522.4	475.1	408.9	327.8	233.2	190.7	151.3	124.5	100.1	86.7
42.5°	597.2	579.9	526.3	447.5	347.5	234.8	187.5	141.8	116.6	90.6	80.4
45°	668.2	648.5	587.0	495.6	375.8	238.7	185.2	133.9	109.5	83.5	76.4
47.5°	737.5	717.8	649.2	543.7	405.0	245.8	186.7	129.2	104.8	79.6	71.7
50°	805.2	784.8	704.4	587.0	430.2	255.3	193.0	130.0	104.0	78.0	69.3
52.5°	865.1	839.9	751.7	620.9	448.3	261.6	198.6	132.4	104.8	77.2	68.5
55°	925.0	892.7	789.5	647.7	459.4	262.4	198.6	133.2	105.6	77.2	67.8
57.5°	969.9	932.9	818.6	663.4	463.3	258.4	193.8	129.2	100.9	76.4	66.2
60°	998.3	958.9	839.1	673.7	457.8	241.9	168.6	114.2	89.0	70.9	61.5
62.5°	1021.9	981.7	845.4	656.3	411.3	192.3	131.6	93.0	74.1	63.0	56.7
65°	1027.4	979.4	801.3	579.9	321.5	133.2	95.3	73.3	60.7	55.9	51.2
67.5°	943.9	886.4	673.7	453.8	219.0	91.4	70.9	59.9	52.0	49.6	48.1
70°	767.4	704.4	493.2	297.0	122.1	63.8	54.4	49.6	44.9	44.9	42.5
72.5°	494.8	429.4	252.9	126.9	62.2	48.9	44.1	42.5	38.6	39.4	37.0
74°	252.9	197.0	103.2	67.0	51.2	43.3	39.4	38.6	34.7	35.5	33.1
75°	128.4	101.6	72.5	55.9	47.3	41.0	36.2	36.2	31.5	32.3	29.9
77.5°	59.9	57.5	49.6	44.1	40.2	34.7	29.9	29.2	24.4	26.0	22.8
80°	41.8	41.8	38.6	37.0	33.1	28.4	22.8	22.8	18.1	18.9	16.5
82.5°	23.6	22.1	22.1	25.2	26.0	21.3	16.5	15.8	13.4	13.4	11.0
85°	10.2	11.8	14.2	17.3	18.9	16.5	11.8	11.0	7.1	7.1	3.9
87.5°	0.0	0.8	0.8	1.6	3.2	3.2	0.0	1.6	0.0	0.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.8	4.5	4.0	4.0	4.0	4.5	4.8	5.0	5.5	6.0	6.5
100°	26.8	26.5	26.0	25.0	26.0	26.5	26.8	27.0	27.8	28.5	29.2
102.5°	48.2	48.5	49.0	48.0	49.0	48.5	48.2	48.0	48.5	49.0	49.5
105°	69.5	70.0	71.0	69.0	71.0	70.0	69.5	69.0	69.5	70.0	70.5
107.5°	91.2	91.5	92.0	91.0	92.0	91.5	91.2	91.0	91.2	91.5	91.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8	0°
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	2.5°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	7.5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	10°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	12.5°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	15°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	17.5°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	20°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	22.5°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	25°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	27.5°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	30°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	32.5°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	35°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	37.5°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	40°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	42.5°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	45°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	47.5°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	50°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	52.5°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	55°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	57.5°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	60°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	62.5°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	65°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°
												72.5°
												74°
												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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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	110°	114.0
329.3	325.4	327.8	323.8	325.4	321.5	323.0	320.7	318.3	315.2	314.4	112.5°	136.0
308.1	304.9	304.1	300.2	301.0	297.8	294.7	290.7	286.0	279.7	277.3	115°	158.0
284.4	283.6	278.1	275.8	272.6	269.5	264.0	257.6	248.2	239.5	234.0	117.5°	181.0
264.0	261.6	253.7	249.8	245.0	241.1	233.2	224.6	211.2	197.8	190.7	120°	204.0
246.6	243.5	233.2	228.5	221.4	216.7	207.2	196.2	177.3	158.4	149.7	122.5°	228.0
232.4	227.7	215.9	208.8	199.3	194.6	184.4	168.6	145.8	126.1	114.2	125°	254.0
215.9	209.6	197.0	188.3	178.9	170.2	159.9	143.4	117.4	99.3	87.5	127.5°	277.0
197.8	189.9	176.5	164.7	154.4	146.6	136.3	119.8	93.8	79.6	73.3	130°	301.0
178.9	166.2	154.4	144.2	132.4	124.5	114.2	99.3	79.6	71.7	69.3	132.5°	325.0
159.2	145.0	133.2	122.9	111.9	104.8	96.1	84.3	72.5	70.1	70.1	135°	348.0
139.5	125.3	114.2	104.0	94.5	89.8	81.9	74.1	68.5	69.3	70.1	137.5°	369.0
121.3	107.2	96.9	89.0	80.4	77.2	70.9	66.2	65.4	67.8	68.5	140°	390.0
105.6	93.0	83.5	77.2	70.1	68.5	63.0	60.7	63.0	66.2	65.4	142.5°	412.0
92.2	81.9	72.5	68.5	62.2	61.5	57.5	55.9	59.1	63.0	63.0	145°	433.0
81.9	72.5	65.4	62.2	57.5	56.7	53.6	52.0	54.4	59.9	61.5	147.5°	452.0
73.3	67.8	60.7	57.5	54.4	52.8	51.2	49.6	50.4	57.5	58.3	150°	469.0
67.8	63.8	57.5	55.9	52.0	51.2	48.9	47.3	48.1	53.6	55.9	152.5°	486.0
63.8	60.7	55.2	54.4	50.4	49.6	47.3	45.7	46.5	51.2	53.6	155°	503.0
60.7	57.5	52.8	51.2	48.9	48.1	46.5	44.9	44.9	49.6	52.0	157.5°	517.0
59.1	55.9	51.2	49.6	47.3	46.5	44.9	43.3	44.1	48.1	49.6	160°	530.0
58.3	54.4	50.4	48.1	46.5	44.9	43.3	41.8	42.5	46.5	48.1	162.5°	540.0
58.3	53.6	50.4	48.1	45.7	43.3	42.5	40.2	41.8	44.9	47.3	165°	550.0
58.3	53.6	50.4	48.1	46.5	44.1	42.5	41.0	41.8	44.9	47.3	167.5°	558.0
56.7	52.8	51.2	48.9	48.1	45.7	44.9	43.3	43.3	47.3	51.2	170°	564.0
54.4	52.0	51.2	49.6	49.6	48.1	48.1	46.5	46.5	51.2	55.2	172.5°	567.0
51.2	49.6	50.4	49.6	49.6	49.6	48.9	48.9	48.9	52.8	57.5	175°	570.0
48.1	47.3	48.1	48.1	48.9	48.1	48.9	48.1	48.1	52.0	56.7	177.5°	574.0
43.3	43.3	44.1	43.3	44.1	44.1	44.9	44.9	44.9	47.3	52.0	180°	576.0
37.8	37.0	37.8	37.0	38.6	37.0	38.6	39.4	38.6	39.4	41.8		
33.9	33.1	33.9	33.1	34.7	33.1	33.9	33.9	33.1	26.8	22.8		
30.7	29.9	30.7	29.9	31.5	29.9	31.5	30.7	29.2	19.7	18.9		
24.4	22.1	24.4	22.1	23.6	21.3	22.8	19.7	15.0	14.2	14.2		
18.1	15.8	17.3	15.0	14.2	11.0	11.8	11.0	10.2	11.0	11.0		
11.0	7.9	9.5	7.1	8.7	6.3	7.9	7.1	6.3	6.3	6.3		
5.5	3.9	5.5	3.2	4.7	3.2	3.9	3.9	2.4	2.4	2.4		
0.8	0.0	1.6	0.0	1.6	0.0	0.8	0.8	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0	3.0	2.0		
30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0	14.0	10.0		
50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0	38.0	32.0		
71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0	61.0	56.0		
92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0	84.0	80.0		

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 ISS-AF-350-LED-E1-SL4-7050-ULG

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 CATALOG NUMBER: ISS-AF-350

TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0	0°	344.3	344.3
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	312.0	312.8
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	273.4	275.8
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	230.9	232.4
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	185.9	187.5
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	143.4	145.0
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	107.9	106.4
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	82.7	81.2
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	70.1	70.1
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	68.5	67.8
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	69.3	68.5
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	69.3	68.5
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	67.8	67.0
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	65.4	64.6
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	63.0	63.0
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	61.5	62.2
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	59.1	59.9
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	56.7	57.5
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	54.4	55.2
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	52.0	52.0
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	48.9	48.9
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	48.1	48.1
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	48.1	48.1
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	49.6	49.6
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	54.4	55.2
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	63.8	64.6
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	73.3	74.9
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	74.1	76.4
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	71.7	74.1
										72.5°	49.6	49.6
										74°	22.1	21.3
										75°	18.9	18.1
										77.5°	14.2	14.2
										80°	10.2	9.5
										82.5°	5.5	5.5
										85°	1.6	1.6
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.0	8.0
										102.5°	28.0	28.0
										105°	54.0	54.0
										107.5°	77.0	78.0



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CANDELA DISTRIBUTION (continued):

	175°	180°
110°	102.0	101.0
112.5°	124.0	124.0
115°	147.0	146.0
117.5°	170.0	169.0
120°	195.0	193.0
122.5°	220.0	219.0
125°	246.0	244.0
127.5°	269.0	267.0
130°	292.0	290.0
132.5°	314.0	313.0
135°	337.0	336.0
137.5°	360.0	359.0
140°	383.0	382.0
142.5°	406.0	404.0
145°	426.0	425.0
147.5°	444.0	444.0
150°	462.0	461.0
152.5°	480.0	479.0
155°	500.0	499.0
157.5°	515.0	513.0
160°	527.0	525.0
162.5°	536.0	535.0
165°	547.0	546.0
167.5°	556.0	555.0
170°	563.0	562.0
172.5°	566.0	565.0
175°	569.0	567.0
177.5°	573.0	572.0
180°	576.0	576.0

(END OF REPORT)

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Scaled Data Report

