

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: P227678

Luminaire Tested: **ISS-AF-350-LED-E1-T3-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)-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-T3-7050-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, 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: 3811.2 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

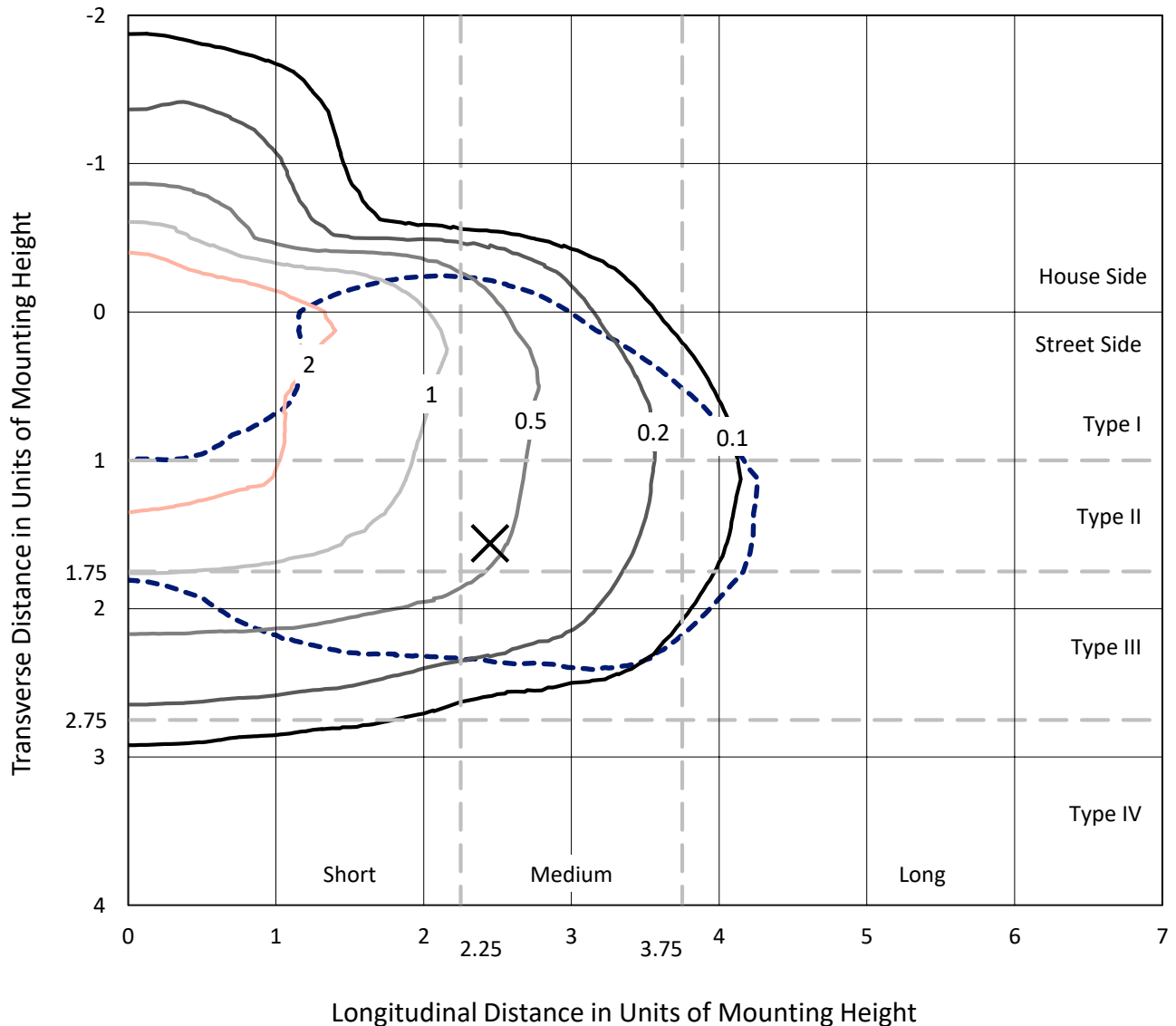
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

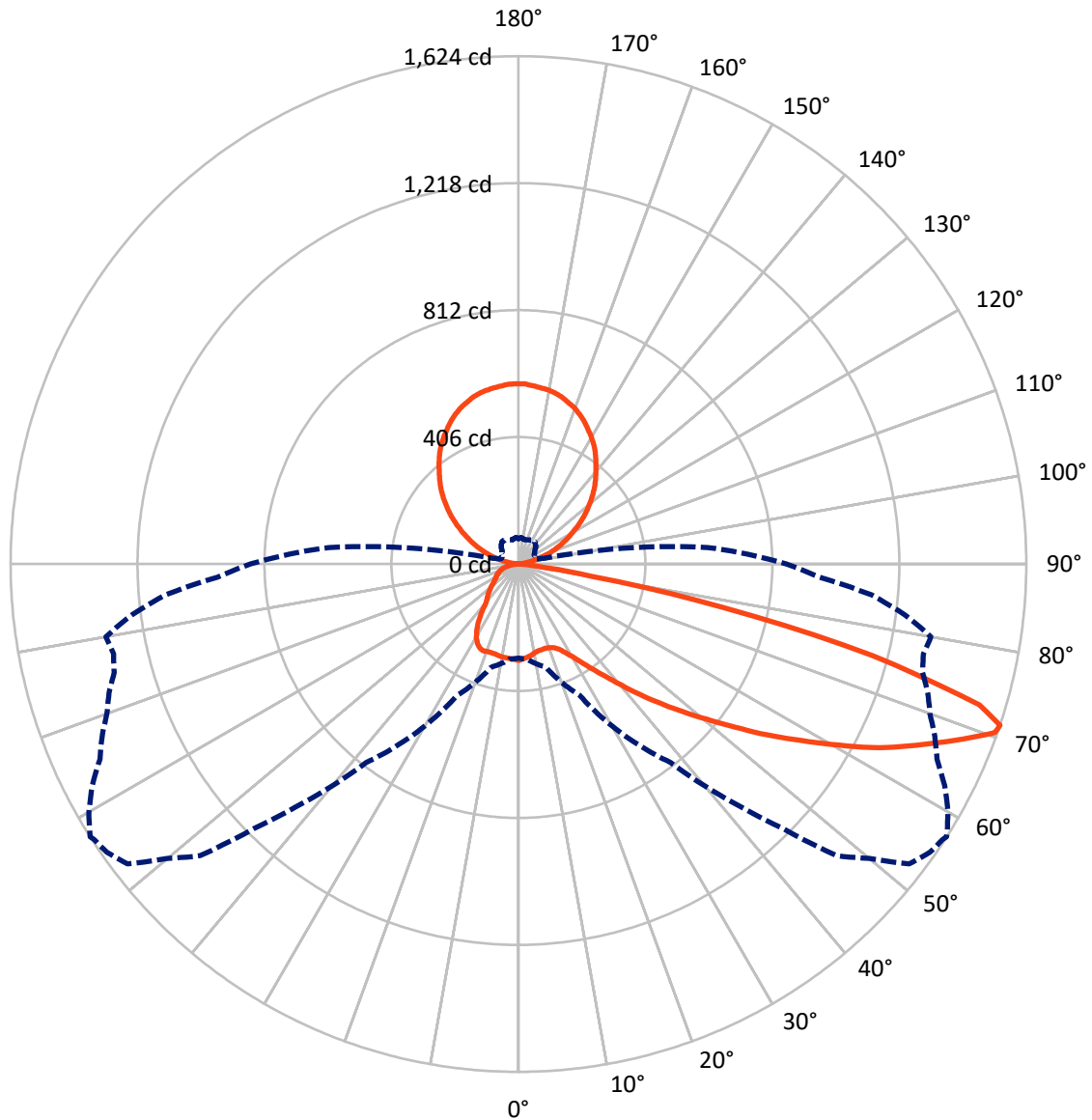
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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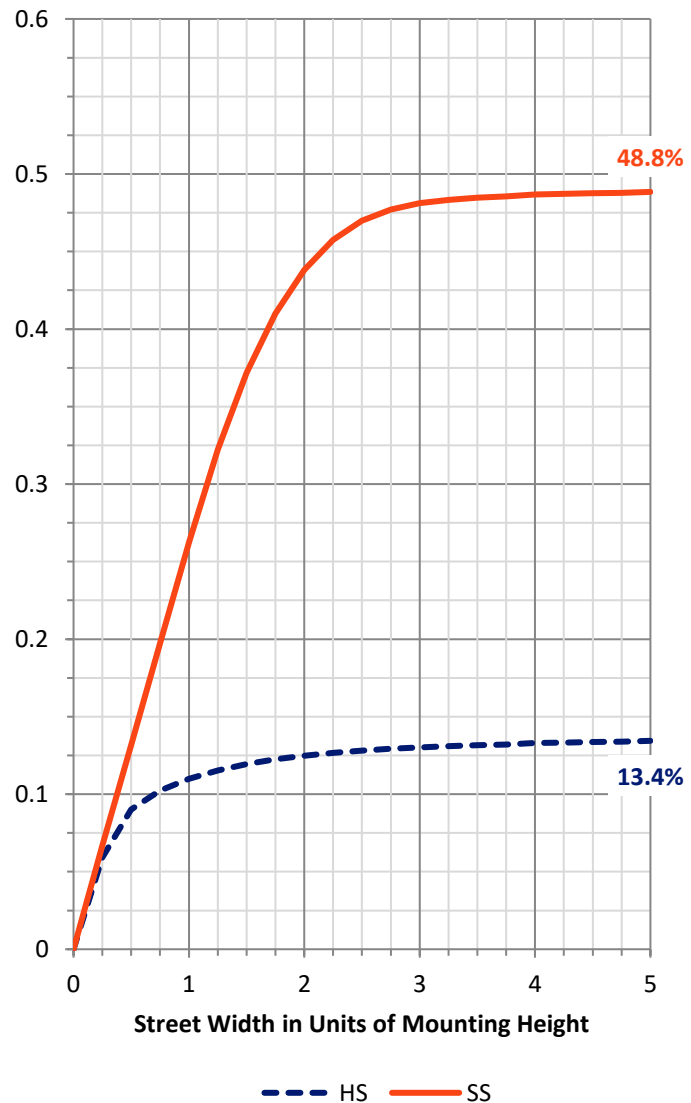
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	519.2	713.1	1232.3
	% Fixture	13.6	18.7	32.3
Street Side	Lumens	1865.8	713.1	2578.9
	% Fixture	49.0	18.7	67.7
Total	Lumens	2385.0	1426.2	3811.2
	% Fixture	62.6	37.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	0.8
10°-20°	83.6	2.2
20°-30°	138.7	3.6
30°-40°	220.8	5.8
40°-50°	358.7	9.4
50°-60°	537.8	14.1
60°-70°	641.6	16.8
70°-80°	346.5	9.1
80°-90°	28.2	0.7
90°-100°	4.7	0.1
100°-110°	69.0	1.8
110°-120°	153.0	4.0
120°-130°	223.9	5.9
130°-140°	265.6	7.0
140°-150°	269.3	7.1
150°-160°	231.1	6.1
160°-170°	155.1	4.1
170°-180°	54.3	1.4
0°-90°	2385.0	62.6
0°-180°	3811.2	100.0



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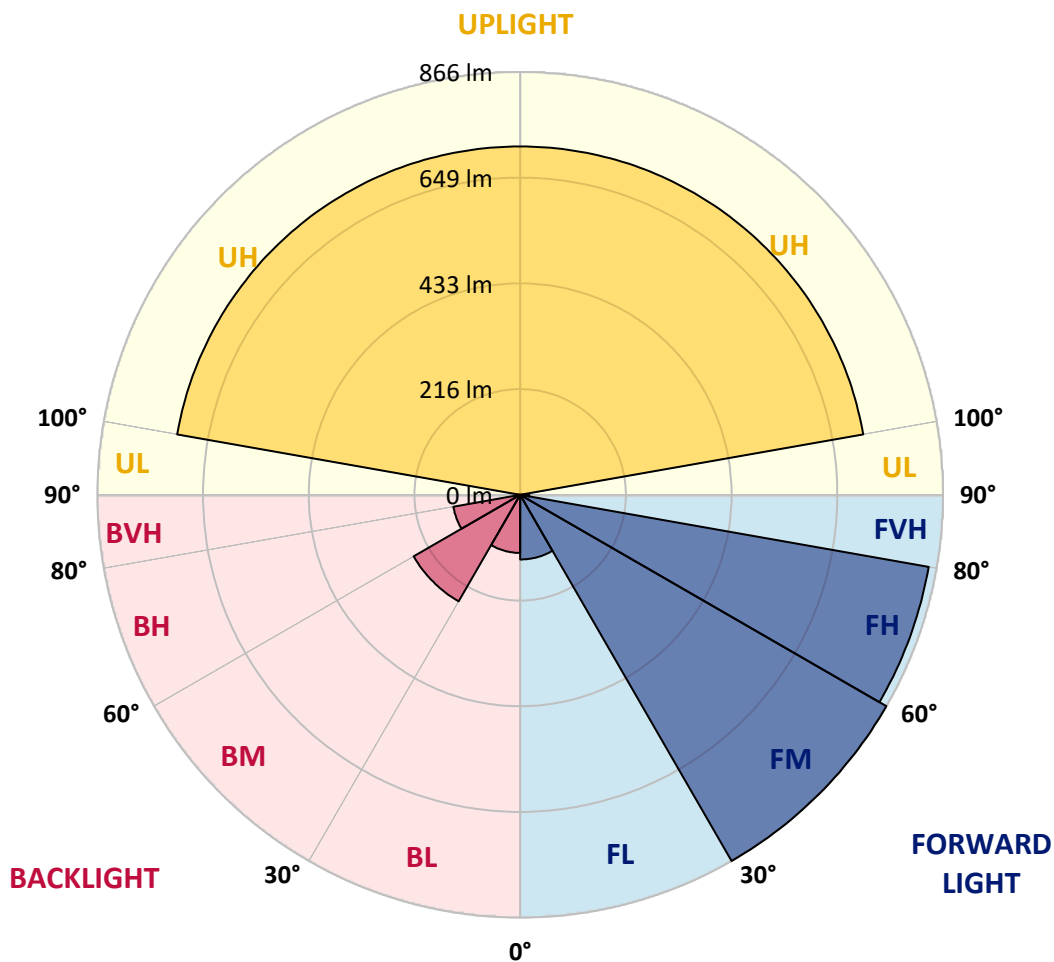
CATALOG NUMBER: ISS-AF-350-LED-E1-T3-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	132.3	3.5			
FM	(30°-60°)	865.6	22.7			
FH	(60°-80°)	849.3	22.3			G1/1800
FVH	(80°-90°)	18.6	0.5			G1/100
BL	(0°-30°)	118.9	3.1	B1/500		
BM	(30°-60°)	251.8	6.6	B1/1000		
BH	(60°-80°)	138.9	3.6	B1/500		G1/500
BVH	(80°-90°)	9.6	0.3			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	18.7		U4/1000	

BUG Rating: B1-U5-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	308.1	307.3	306.5	306.5	306.5	305.7	303.4	304.2	306.5	305.0	307.3
5°	307.3	305.7	305.0	305.0	305.0	302.6	301.8	301.0	305.7	301.8	305.0
7.5°	298.6	298.6	297.1	298.6	300.2	297.9	296.3	297.1	301.0	297.1	301.0
10°	292.3	290.8	290.0	290.0	291.6	288.4	286.8	288.4	293.1	288.4	293.9
12.5°	290.0	290.8	288.4	288.4	287.6	283.7	283.7	283.7	287.6	283.7	288.4
15°	293.9	293.1	290.8	289.2	286.8	283.7	282.9	283.7	286.8	282.1	287.6
17.5°	299.4	299.4	295.5	291.6	289.2	286.0	286.0	284.5	286.8	283.7	287.6
20°	313.6	311.3	305.7	299.4	293.1	291.6	288.4	288.4	290.0	286.8	289.2
22.5°	338.0	335.7	326.2	314.4	304.2	300.2	298.6	297.9	296.3	294.7	294.7
25°	370.4	366.4	355.4	341.2	323.9	320.7	317.6	315.2	309.7	309.7	305.7
27.5°	405.0	401.1	389.3	373.5	352.2	347.5	343.6	340.4	331.0	331.0	323.9
30°	444.4	439.7	425.5	408.2	383.8	382.2	376.7	371.9	359.3	358.5	349.1
32.5°	490.1	483.8	469.6	446.8	420.8	421.6	412.9	409.8	393.2	394.0	381.4
35°	542.1	535.0	520.9	490.9	464.1	466.5	458.6	453.1	432.6	432.6	419.2
37.5°	597.3	597.3	579.2	544.5	512.2	517.7	508.3	502.7	482.3	485.4	464.1
40°	658.8	662.7	643.0	603.6	570.5	572.9	565.8	559.5	535.0	540.6	517.7
42.5°	723.4	730.5	713.1	672.2	635.1	643.0	631.2	624.9	598.9	610.7	583.9
45°	817.2	818.7	786.4	747.0	716.3	723.4	706.8	704.5	672.2	684.8	658.0
47.5°	876.3	872.3	848.7	825.0	806.9	821.1	806.1	802.2	765.1	773.8	736.0
50°	916.4	918.8	900.7	898.3	901.5	928.3	925.9	918.0	873.9	867.6	820.3
52.5°	952.7	942.4	939.3	961.4	995.2	1026.8	1039.4	1029.1	981.1	963.7	918.0
55°	946.4	931.4	948.0	1001.5	1068.5	1117.4	1119.0	1111.9	1068.5	1061.4	1011.8
57.5°	903.8	907.0	940.9	1017.3	1130.8	1181.2	1189.9	1181.2	1145.7	1152.0	1111.1
60°	844.7	851.0	904.6	1003.1	1180.4	1223.8	1227.7	1237.9	1214.3	1230.8	1202.5
62.5°	756.5	765.1	833.7	967.7	1145.7	1210.4	1246.6	1270.2	1265.5	1303.3	1288.4
65°	695.0	695.0	762.0	926.7	1111.9	1197.0	1251.3	1295.5	1301.8	1361.7	1356.1
67.5°	580.8	584.7	642.2	812.4	1070.9	1167.0	1249.0	1323.8	1361.7	1456.2	1460.9
70°	401.9	405.0	442.9	580.0	865.2	947.2	1067.7	1189.9	1303.3	1446.0	1520.0
71°	301.0	305.0	342.0	462.6	732.8	800.6	925.9	1052.8	1195.4	1380.6	1464.1
72.5°	147.4	149.7	186.0	297.1	509.8	596.5	669.0	790.4	941.7	1153.6	1271.8
75°	68.6	69.3	77.2	107.2	194.6	231.7	264.0	342.0	435.8	621.7	765.1
77.5°	50.4	50.4	55.2	70.1	100.9	102.4	100.9	103.2	124.5	178.1	267.9
80°	37.0	37.0	40.2	47.3	67.0	67.0	64.6	65.4	63.0	65.4	74.1
82.5°	24.4	24.4	26.0	28.4	41.0	41.0	39.4	39.4	37.8	37.0	40.2
85°	14.2	15.0	15.8	13.4	17.3	16.5	15.0	16.5	15.8	14.2	17.3
87.5°	0.0	0.0	0.0	0.0	0.8	0.0	0.0	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°	2.0	2.0	2.0	3.0	4.0	5.2	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
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	541.2	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	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):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	304.2	306.5	306.5	303.4	305.7	303.4	305.0	302.6	305.0	301.0	305.7
5°	301.8	304.2	304.2	299.4	304.2	299.4	303.4	297.9	303.4	297.1	303.4
7.5°	295.5	301.0	301.0	294.7	300.2	295.5	300.2	294.7	299.4	292.3	300.2
10°	288.4	293.9	294.7	288.4	294.7	289.2	296.3	289.2	296.3	288.4	297.1
12.5°	283.7	290.0	291.6	284.5	292.3	285.3	293.9	286.0	293.9	285.3	295.5
15°	282.9	288.4	290.0	283.7	290.8	282.9	293.1	283.7	293.9	284.5	296.3
17.5°	283.7	288.4	290.0	282.9	290.0	283.7	292.3	284.5	293.9	285.3	296.3
20°	286.0	289.2	289.2	285.3	290.8	285.3	292.3	284.5	294.7	286.8	297.1
22.5°	293.1	293.9	293.9	290.8	293.9	290.0	295.5	290.0	297.1	290.8	300.2
25°	305.0	304.2	302.6	301.8	302.6	300.2	303.4	299.4	306.5	301.0	310.5
27.5°	325.4	322.3	320.7	320.7	319.9	320.7	320.7	319.1	322.3	320.7	327.0
30°	350.7	345.1	342.8	345.1	342.0	345.1	344.4	343.6	346.7	345.1	350.7
32.5°	383.8	374.3	372.7	377.4	371.1	376.7	371.9	374.3	376.7	378.2	381.4
35°	422.4	411.3	409.8	414.5	407.4	415.3	409.8	412.9	414.5	418.4	420.8
37.5°	468.1	454.7	452.3	458.6	449.2	457.8	449.9	459.4	457.0	462.6	464.9
40°	523.2	507.5	502.0	510.6	499.6	506.7	498.8	509.0	506.7	517.7	520.1
42.5°	591.0	568.1	562.6	571.3	554.7	557.1	550.8	562.6	561.1	576.0	578.4
45°	661.1	633.5	625.7	634.3	615.4	620.2	610.7	623.3	622.5	634.3	643.8
47.5°	739.1	705.3	695.0	704.5	681.6	687.1	677.7	691.1	691.9	705.3	714.7
50°	820.3	784.8	771.4	780.1	758.8	762.8	753.3	769.9	769.1	787.2	794.3
52.5°	908.6	872.3	862.1	866.0	840.8	845.5	837.6	858.1	853.4	864.4	878.6
55°	1006.3	964.5	952.7	964.5	934.6	940.9	930.6	949.5	941.7	955.8	959.8
57.5°	1106.3	1065.4	1055.9	1064.6	1036.2	1040.9	1027.5	1043.3	1037.0	1046.5	1052.8
60°	1212.7	1175.7	1166.2	1175.7	1148.1	1148.9	1126.0	1142.6	1133.1	1145.0	1142.6
62.5°	1314.4	1282.9	1280.5	1293.9	1259.2	1255.3	1227.7	1239.5	1226.1	1234.0	1224.5
65°	1401.1	1382.9	1386.1	1397.1	1366.4	1356.9	1325.4	1331.7	1312.0	1312.0	1300.2
67.5°	1514.5	1494.8	1494.8	1504.3	1465.7	1441.2	1397.9	1392.4	1360.1	1353.8	1326.2
70°	1609.1	1614.6	1608.3	1616.2	1570.5	1520.8	1463.3	1435.7	1393.2	1372.7	1340.4
71°	1575.2	1606.7	1617.8	1624.1	1586.2	1536.6	1476.7	1441.2	1400.3	1372.7	1338.0
72.5°	1421.5	1498.0	1541.3	1541.3	1546.0	1514.5	1457.0	1418.4	1371.9	1335.7	1303.3
75°	996.0	1120.5	1176.5	1170.2	1211.1	1225.3	1230.1	1213.5	1187.5	1135.5	1112.6
77.5°	443.6	584.7	669.0	669.8	713.9	752.5	783.3	815.6	803.8	778.5	777.0
80°	100.9	182.8	234.0	236.4	276.6	312.0	333.3	365.6	369.6	333.3	312.8
82.5°	43.3	51.2	58.3	57.5	70.9	85.1	100.9	109.5	105.6	87.5	82.7
85°	18.1	23.6	25.2	23.6	29.2	32.3	37.8	38.6	44.9	40.2	42.6
87.5°	0.0	0.8	0.8	0.0	1.6	0.0	1.6	0.8	3.9	1.6	4.7
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°	12.0	13.0	11.8	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.5	32.0	31.6	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.5	114.0	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.8	180.0	180.2	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.8	454.0	453.6	453.6	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.8	471.0	470.6	470.6	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	518.6	518.6	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	531.6	531.6	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.6	541.6	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.8	553.0	552.4	552.4	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	559.6	559.6	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.8	569.0	568.6	568.6	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.8	573.0	572.4	572.4	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	576.4	576.4	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°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	302.6	306.5	302.6	306.5	304.2	306.5	305.7	306.5	302.6	306.5	301.8
5°	297.1	303.4	297.9	302.6	297.9	303.4	303.4	303.4	297.9	304.2	298.6
7.5°	292.3	299.4	292.3	299.4	294.7	300.2	300.2	302.6	296.3	303.4	295.5
10°	287.6	296.3	287.6	297.9	290.0	298.6	299.4	301.0	292.3	301.8	293.9
12.5°	285.3	296.3	286.0	296.3	286.8	298.6	299.4	301.0	291.6	303.4	293.1
15°	285.3	297.1	286.0	297.1	286.8	298.6	300.2	301.8	291.6	304.2	293.1
17.5°	285.3	297.1	287.6	297.9	288.4	299.4	301.0	302.6	293.1	304.2	294.7
20°	287.6	298.6	289.2	300.2	290.8	301.8	302.6	305.0	294.7	305.0	296.3
22.5°	293.1	302.6	294.7	305.0	297.9	306.5	307.3	309.7	301.8	310.5	303.4
25°	302.6	312.8	306.5	314.4	310.5	317.6	319.1	319.1	316.0	321.5	319.1
27.5°	322.3	330.2	325.4	332.5	330.2	335.7	335.7	336.5	338.8	340.4	342.8
30°	347.5	353.0	351.4	355.4	356.2	359.3	359.3	364.1	373.5	364.1	363.3
32.5°	381.4	384.5	385.3	386.9	390.1	392.4	395.6	401.1	409.0	386.9	379.8
35°	423.2	423.9	426.3	428.7	434.2	435.8	446.0	442.1	442.1	407.4	392.4
37.5°	468.9	468.9	475.2	475.2	488.6	489.3	499.6	479.1	467.3	422.4	400.3
40°	526.4	525.6	532.7	534.3	552.4	553.2	551.6	506.7	481.5	426.3	396.4
42.5°	587.1	589.4	598.9	602.0	615.4	620.2	600.5	525.6	487.8	423.9	383.0
45°	653.2	658.0	669.8	678.5	692.6	687.1	639.9	534.3	480.7	409.8	357.0
47.5°	725.7	730.5	739.9	756.5	762.8	756.5	672.2	537.4	469.6	387.7	319.1
50°	799.0	806.9	820.3	843.9	847.1	831.3	711.6	549.2	461.0	364.8	275.8
52.5°	881.8	889.6	905.4	944.8	936.9	904.6	758.1	571.3	463.3	350.7	238.8
55°	969.2	980.3	1011.0	1049.6	1032.3	981.8	809.3	603.6	472.8	335.7	197.8
57.5°	1061.4	1073.2	1113.4	1159.1	1125.3	1057.5	861.3	628.8	477.5	305.0	152.9
60°	1152.8	1169.4	1221.4	1259.2	1206.4	1122.1	907.8	645.4	464.9	246.6	118.2
62.5°	1236.4	1263.2	1321.5	1342.0	1257.6	1163.1	933.0	633.5	413.7	170.2	95.3
65°	1295.5	1330.1	1368.0	1365.6	1248.2	1149.7	914.1	579.2	308.1	112.7	81.2
67.5°	1320.7	1353.0	1361.7	1321.5	1180.4	1090.6	846.3	466.5	177.3	84.3	70.9
70°	1330.1	1357.7	1308.9	1211.9	1048.0	945.6	691.9	297.1	96.9	68.6	61.5
71°	1326.2	1339.6	1246.6	1133.1	963.7	856.6	606.8	226.2	82.7	63.8	58.3
72.5°	1272.6	1253.7	1110.3	984.2	817.2	708.4	472.0	142.6	67.8	57.5	54.4
75°	1040.2	955.0	817.2	698.2	556.3	445.2	256.1	73.3	54.4	49.6	47.3
77.5°	680.0	606.0	492.5	400.3	304.2	230.9	104.8	50.4	43.3	41.8	41.0
80°	242.7	194.6	147.4	129.2	97.7	80.4	51.2	38.6	33.9	34.7	33.9
82.5°	68.6	63.0	54.4	50.4	44.1	43.3	33.1	29.2	26.8	28.4	27.6
85°	33.9	29.2	21.3	20.5	15.8	18.1	16.5	19.7	17.3	18.1	16.5
87.5°	2.4	3.2	0.8	2.4	0.0	2.4	3.2	3.9	0.8	3.2	2.4
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	4.2	4.0	4.0	4.0	4.0	4.5	4.8	5.0	5.5
100°	26.8	26.5	26.2	26.0	25.5	25.0	26.0	26.5	26.8	27.0	27.8
102.5°	48.2	48.5	48.8	49.0	48.5	48.0	49.0	48.5	48.2	48.0	48.5
105°	69.5	70.0	70.5	71.0	70.0	69.0	71.0	70.0	69.5	69.0	69.5
107.5°	91.2	91.5	91.8	92.0	91.5	91.0	92.0	91.5	91.2	91.0	91.2



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°	
110°	113.2	113.5	113.8	114.0	113.5	113.0	114.0	113.5	113.2	113.0	113.2	0°
112.5°	135.5	136.0	136.5	137.0	136.0	135.0	137.0	136.0	135.5	135.0	135.2	2.5°
115°	158.5	159.0	159.5	160.0	159.5	159.0	160.0	159.0	158.5	158.0	158.0	5°
117.5°	180.5	181.0	181.5	182.0	181.0	180.0	182.0	181.0	180.5	180.0	180.2	7.5°
120°	204.5	205.0	205.5	206.0	205.0	204.0	206.0	205.0	204.5	204.0	204.0	10°
122.5°	230.0	231.0	232.0	233.0	232.5	232.0	233.0	231.0	230.0	229.0	228.8	12.5°
125°	254.8	255.5	256.2	257.0	256.5	256.0	257.0	255.5	254.8	254.0	254.0	15°
127.5°	278.8	279.5	280.2	281.0	279.5	278.0	281.0	279.5	278.8	278.0	277.8	17.5°
130°	302.8	303.5	304.2	305.0	304.0	303.0	305.0	303.5	302.8	302.0	301.8	20°
132.5°	326.8	327.5	328.2	329.0	328.0	327.0	329.0	327.5	326.8	326.0	325.8	22.5°
135°	349.5	350.0	350.5	351.0	350.5	350.0	351.0	350.0	349.5	349.0	348.8	25°
137.5°	371.0	372.0	373.0	374.0	373.0	372.0	374.0	372.0	371.0	370.0	369.8	27.5°
140°	393.0	394.0	395.0	396.0	395.0	394.0	396.0	394.0	393.0	392.0	391.5	30°
142.5°	413.8	414.5	415.2	416.0	415.5	415.0	416.0	414.5	413.8	413.0	412.8	32.5°
145°	434.8	435.5	436.2	437.0	436.0	435.0	437.0	435.5	434.8	434.0	433.8	35°
147.5°	453.8	454.5	455.2	456.0	454.5	453.0	456.0	454.5	453.8	453.0	452.8	37.5°
150°	470.0	471.0	472.0	473.0	471.5	470.0	473.0	471.0	470.0	469.0	469.0	40°
152.5°	486.8	487.5	488.2	489.0	487.5	486.0	489.0	487.5	486.8	486.0	486.0	42.5°
155°	504.8	505.5	506.2	507.0	506.0	505.0	507.0	505.5	504.8	504.0	503.8	45°
157.5°	519.2	520.5	521.8	523.0	521.5	520.0	523.0	520.5	519.2	518.0	517.8	47.5°
160°	530.8	531.5	532.2	533.0	532.0	531.0	533.0	531.5	530.8	530.0	530.0	50°
162.5°	538.5	539.0	539.5	540.0	538.5	537.0	540.0	539.0	538.5	538.0	538.5	52.5°
165°	548.5	549.0	549.5	550.0	549.0	548.0	550.0	549.0	548.5	548.0	548.5	55°
167.5°	560.0	561.0	562.0	563.0	562.0	561.0	563.0	561.0	560.0	559.0	558.8	57.5°
170°	567.2	568.5	569.8	571.0	570.0	569.0	571.0	568.5	567.2	566.0	565.5	60°
172.5°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	567.8	62.5°
175°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	568.5	65°
177.5°	574.8	575.5	576.2	577.0	575.5	574.0	577.0	575.5	574.8	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°
												71°
												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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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	110°
308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	110°	113.5
307.3	304.2	308.1	304.2	308.1	305.7	308.1	305.7	308.1	309.7	309.7	112.5°	135.5
305.7	300.2	307.3	303.4	308.1	304.2	307.3	305.0	308.9	310.5	312.0	115°	158.0
305.0	299.4	306.5	301.0	308.1	302.6	307.3	304.2	308.9	310.5	313.6	117.5°	180.5
304.2	297.1	306.5	298.6	307.3	301.8	307.3	302.6	308.1	309.7	310.5	120°	204.0
304.2	296.3	306.5	297.9	307.3	299.4	306.5	299.4	307.3	306.5	304.2	122.5°	228.5
305.0	294.7	306.5	296.3	306.5	297.1	305.7	296.3	304.2	301.8	300.2	125°	254.0
305.0	294.7	305.7	295.5	305.0	296.3	303.4	294.7	301.8	301.0	298.6	127.5°	277.5
306.5	296.3	305.7	298.6	305.7	297.1	302.6	294.7	300.2	295.5	286.0	130°	301.5
311.3	304.2	311.3	304.2	307.3	299.4	301.8	292.3	291.6	283.7	268.7	132.5°	325.5
322.3	319.1	317.6	308.9	306.5	296.3	293.1	282.1	278.2	266.3	245.9	135°	348.5
336.5	329.4	319.9	309.7	299.4	286.8	278.2	269.5	260.8	245.9	219.9	137.5°	369.5
345.9	335.7	316.0	301.8	282.9	272.6	257.7	248.2	235.6	216.7	191.5	140°	391.0
352.2	336.5	306.5	290.0	264.8	251.4	231.7	221.4	203.3	185.2	167.1	142.5°	412.5
353.8	333.3	293.9	275.8	242.7	227.7	201.7	190.7	173.4	160.8	153.7	145°	433.5
347.5	322.3	274.2	250.6	214.3	197.0	172.6	164.7	154.4	149.7	146.6	147.5°	452.5
334.9	301.0	243.5	215.9	178.9	165.5	152.9	152.9	147.4	145.0	139.5	150°	469.0
312.0	269.5	204.1	177.3	152.1	149.7	142.6	145.8	141.8	140.3	132.4	152.5°	486.0
276.6	224.6	164.7	148.9	137.1	138.7	134.0	137.1	134.7	134.0	124.5	155°	503.5
230.9	178.9	138.7	133.2	125.3	127.7	123.7	127.7	125.3	126.1	119.0	157.5°	517.5
184.4	145.0	122.9	119.8	114.3	115.8	113.5	117.4	116.6	119.8	115.8	160°	530.0
147.4	123.7	109.5	107.2	104.0	104.8	104.0	108.0	108.7	115.0	115.0	162.5°	539.0
122.1	106.4	98.5	97.7	94.6	95.3	96.1	100.1	103.2	111.1	115.0	165°	549.0
104.8	95.3	89.8	89.0	87.5	88.3	89.8	94.6	97.7	108.0	116.6	167.5°	558.5
92.2	86.7	82.7	82.7	81.2	82.7	84.3	89.0	93.0	104.8	113.5	170°	565.0
82.7	78.8	76.4	77.2	76.4	78.0	79.6	84.3	89.0	100.1	108.7	172.5°	567.5
74.1	71.7	70.1	70.9	70.9	73.3	74.9	79.6	83.5	93.8	104.8	175°	569.0
67.0	65.4	64.6	65.4	66.2	68.6	70.9	74.1	77.2	86.7	99.3	177.5°	574.0
61.5	59.9	59.9	59.9	60.7	63.0	66.2	67.8	70.9	81.2	93.0	180°	576.0
58.3	57.5	57.5	57.5	58.3	60.7	63.8	65.4	68.6	78.8	89.8		
54.4	54.4	55.2	54.4	55.9	56.7	59.9	61.5	65.4	75.6	85.9		
48.1	48.1	48.9	48.9	50.4	50.4	52.8	54.4	59.1	67.8	77.2		
42.6	42.6	44.1	43.3	43.3	41.8	44.9	46.5	50.4	59.1	68.6		
36.2	35.5	37.0	34.7	33.9	32.3	34.7	37.0	43.3	48.9	50.4		
28.4	26.0	26.8	24.4	24.4	22.9	25.2	26.0	29.9	35.5	38.6		
17.3	14.2	15.8	13.4	15.0	13.4	14.2	15.0	18.1	22.1	21.3		
3.9	2.4	3.2	0.8	2.4	0.0	2.4	0.8	2.4	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		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
6.0	6.5	7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0		
28.5	29.2	30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0		
49.0	49.5	50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0		
70.0	70.5	71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0		
91.5	91.8	92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0		

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 ISS-AF-350-LED-E1-T3-7050-ULG

REPORT NUMBER: P227678
 CATALOG NUMBER: ISS-AF-350

TION (continued):

CANDELA DISTRIBUTION (con

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
113.8	114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	0°	308.1	308.1
135.8	136.0	136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	2.5°	311.3	310.5
158.0	158.0	158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	5°	315.2	315.2
180.8	181.0	180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	7.5°	316.0	317.6
204.0	204.0	204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	10°	310.5	308.9
228.2	228.0	228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	12.5°	301.8	300.2
254.0	254.0	253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	15°	301.0	300.2
277.2	277.0	277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	17.5°	295.5	291.6
301.2	301.0	301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	20°	279.7	272.6
325.2	325.0	325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	22.5°	257.7	247.4
348.2	348.0	348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	25°	230.9	216.7
369.2	369.0	369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	27.5°	201.7	187.5
390.5	390.0	390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	30°	178.9	167.8
412.2	412.0	412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	32.5°	162.3	156.0
433.2	433.0	433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	35°	148.9	145.0
452.2	452.0	452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	37.5°	140.3	134.0
469.0	469.0	469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	40°	131.6	123.7
486.0	486.0	486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	42.5°	123.7	115.8
503.2	503.0	503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	45°	115.8	110.3
517.2	517.0	517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	47.5°	111.9	107.2
530.0	530.0	530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	50°	110.3	105.6
539.5	540.0	540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	52.5°	111.9	108.0
549.5	550.0	550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	55°	115.0	112.7
558.2	558.0	558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	57.5°	111.9	108.0
564.5	564.0	564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	60°	104.8	98.5
567.2	567.0	567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	62.5°	100.1	93.8
569.5	570.0	570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	65°	96.1	91.4
574.0	574.0	574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	67.5°	92.2	87.5
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	87.5	82.7
										71°	85.1	79.6
										72.5°	81.2	74.9
										75°	73.3	67.0
										77.5°	60.7	53.6
										80°	46.5	41.8
										82.5°	34.7	30.7
										85°	18.1	14.2
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.0	2.0
										100°	14.0	10.0
										102.5°	38.0	32.0
										105°	61.0	56.0
										107.5°	84.0	80.0



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0-LED-E1-T3-7050-ULG

tinued):

175°	180°
308.1	308.1
311.3	310.5
316.0	316.8
319.1	318.3
310.5	308.9
301.8	301.8
301.0	301.0
290.0	289.2
271.1	268.7
244.3	241.9
211.2	208.0
182.0	182.0
162.3	162.3
152.1	152.9
142.6	143.4
128.4	128.4
116.6	116.6
111.1	110.3
106.4	105.6
103.2	102.4
100.1	100.1
97.7	97.7
97.7	96.1
98.5	96.1
96.9	95.3
96.9	96.1
98.5	96.9
98.5	95.3
89.8	84.3
85.1	80.4
76.4	73.3
65.4	64.6
51.2	50.4
41.8	39.4
29.9	26.0
11.8	11.8
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
8.0	8.0
28.0	28.0
54.0	54.0
77.0	78.0

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	106.0	103.0	102.0
112.5°	129.0	126.0	124.0
115°	151.0	149.0	147.0
117.5°	174.0	172.0	170.0
120°	198.0	196.0	195.0
122.5°	223.0	221.0	220.0
125°	248.0	247.0	246.0
127.5°	272.0	270.0	269.0
130°	294.0	293.0	292.0
132.5°	318.0	317.0	314.0
135°	341.0	339.0	337.0
137.5°	364.0	363.0	360.0
140°	386.0	385.0	383.0
142.5°	407.0	408.0	406.0
145°	428.0	428.0	426.0
147.5°	448.0	447.0	444.0
150°	465.0	464.0	462.0
152.5°	482.0	483.0	480.0
155°	501.0	502.0	500.0
157.5°	516.0	517.0	515.0
160°	529.0	529.0	527.0
162.5°	538.0	539.0	536.0
165°	548.0	549.0	547.0
167.5°	558.0	559.0	556.0
170°	565.0	566.0	563.0
172.5°	567.0	569.0	566.0
175°	569.0	570.0	569.0
177.5°	574.0	575.0	573.0
180°	576.0	576.0	576.0

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<u>180°</u>
101.0
124.0
146.0
169.0
193.0
219.0
244.0
267.0
290.0
313.0
336.0
359.0
382.0
404.0
425.0
444.0
461.0
479.0
499.0
513.0
525.0
535.0
546.0
555.0
562.0
565.0
567.0
572.0
576.0

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