

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: P227676

Luminaire Tested: **ISS-AF-350-LED-E1-T3-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227676
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-T3-8030-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3372.2 lumens
Efficiency: N/A
Efficacy: 91.7 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

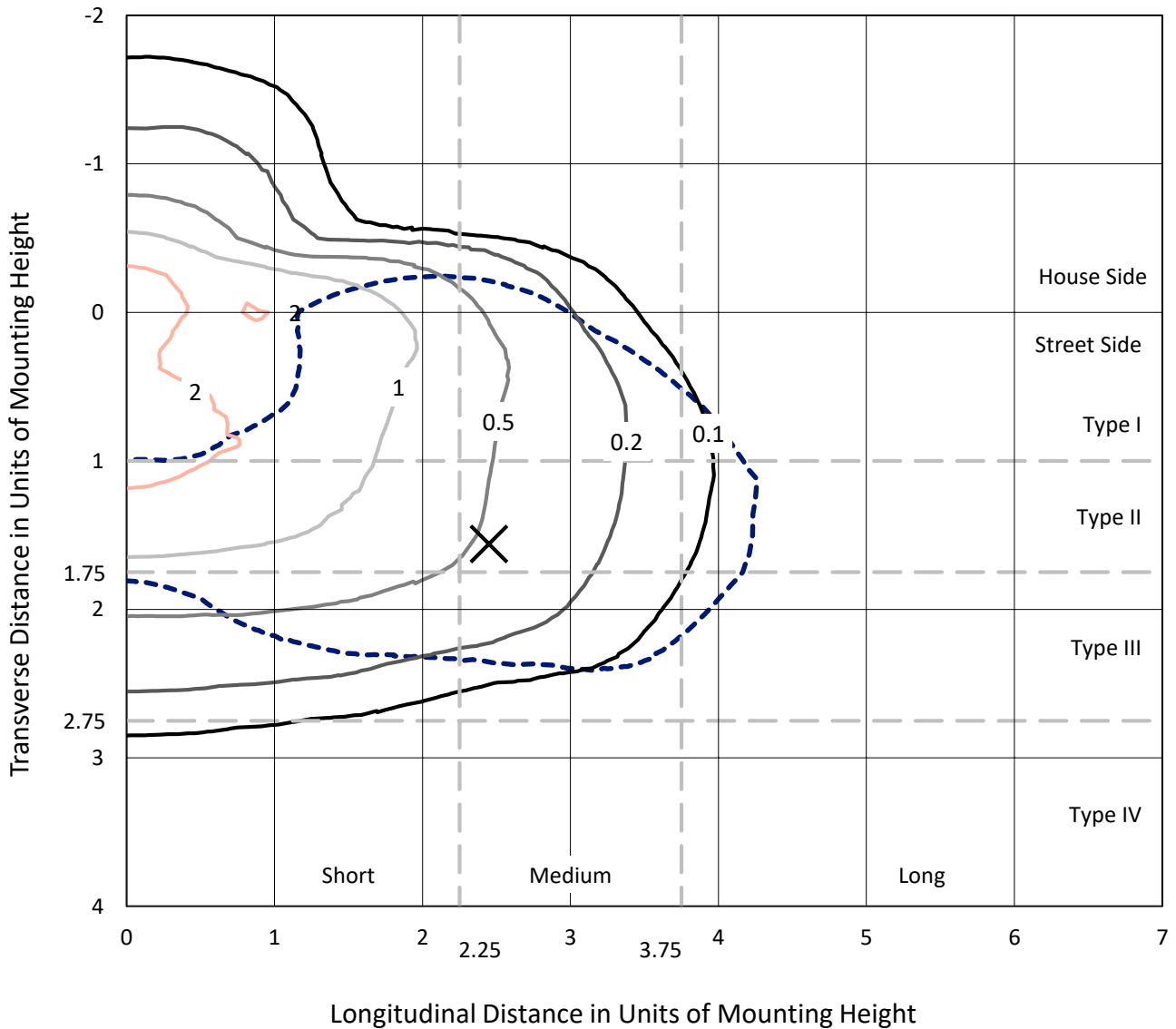
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

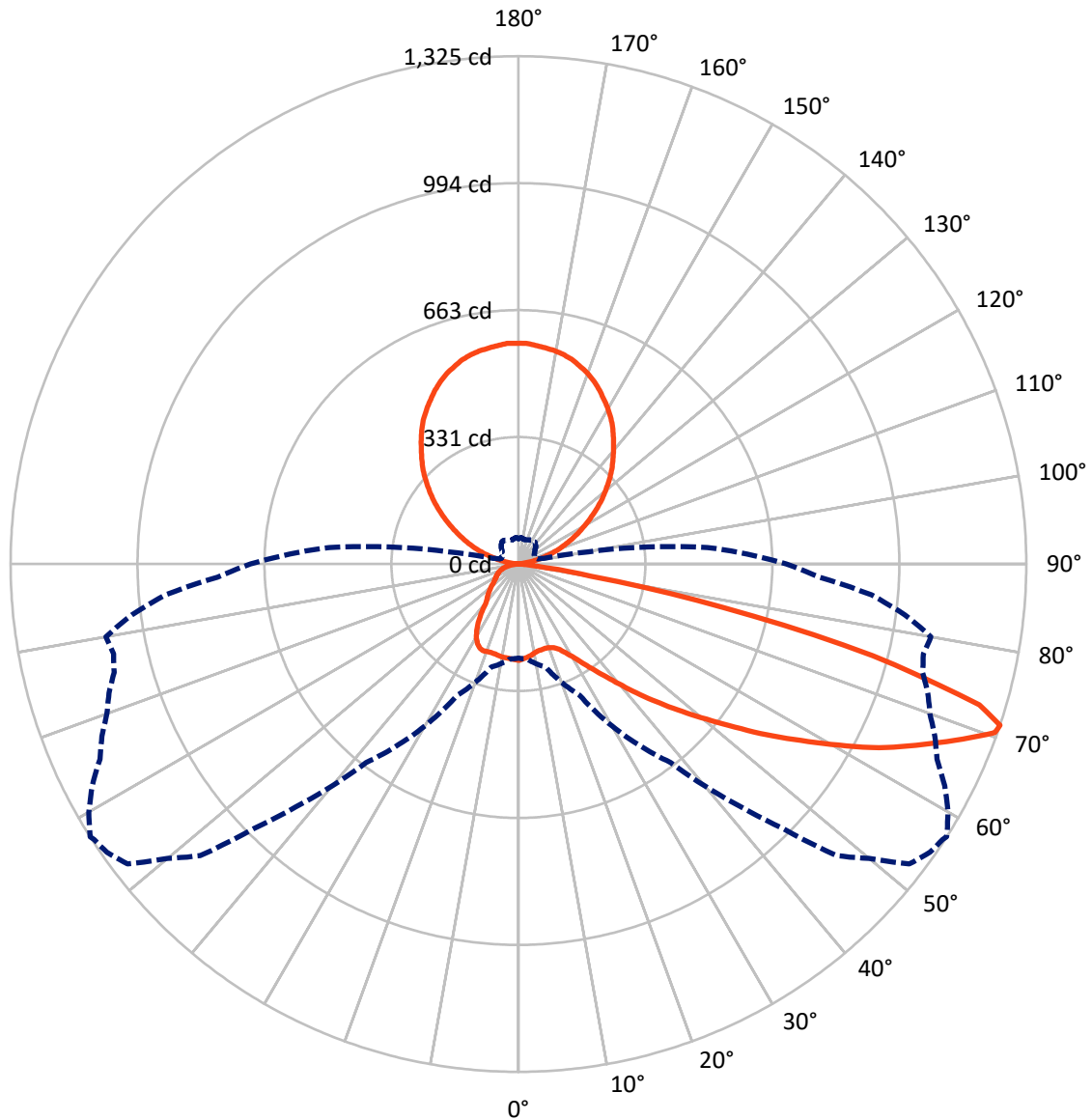
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 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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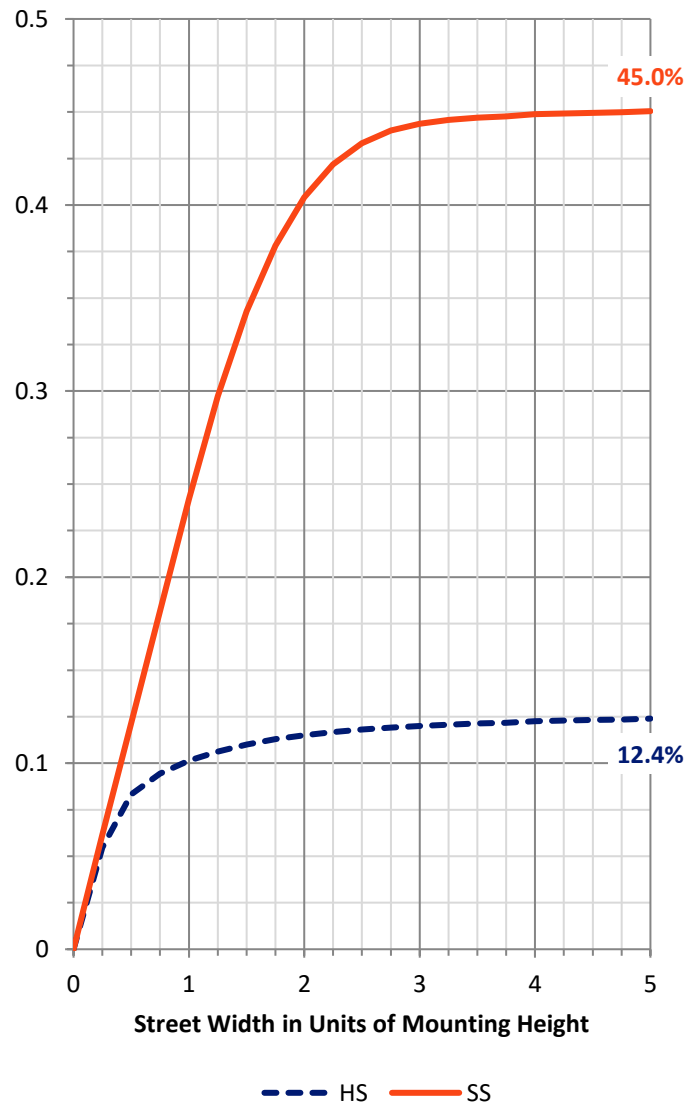
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	423.7	713.1	1136.7
	% Fixture	12.6	21.1	33.7
Street Side	Lumens	1522.3	713.1	2235.4
	% Fixture	45.1	21.1	66.3
Total	Lumens	1946.0	1426.2	3372.2
	% Fixture	57.7	42.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	0.7
10°-20°	68.2	2.0
20°-30°	113.2	3.4
30°-40°	180.2	5.3
40°-50°	292.7	8.7
50°-60°	438.8	13.0
60°-70°	523.5	15.5
70°-80°	282.7	8.4
80°-90°	23.0	0.7
90°-100°	4.7	0.1
100°-110°	69.0	2.0
110°-120°	153.0	4.5
120°-130°	223.9	6.6
130°-140°	265.6	7.9
140°-150°	269.3	8.0
150°-160°	231.1	6.9
160°-170°	155.1	4.6
170°-180°	54.3	1.6
0°-90°	1946.0	57.7
0°-180°	3372.2	100.0



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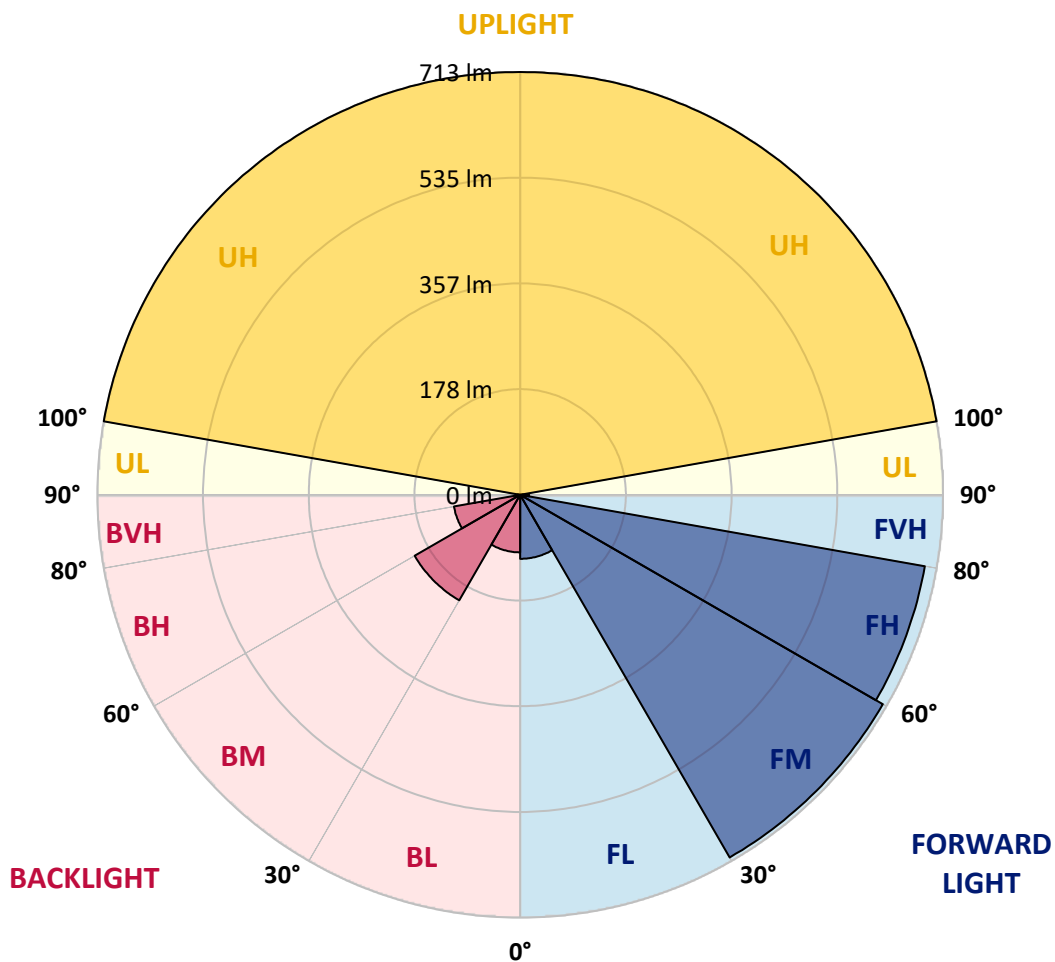
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	108.0	3.2			
FM	(30°-60°)	706.3	20.9			
FH	(60°-80°)	693.0	20.5			G1/1800
FVH	(80°-90°)	15.2	0.4			G1/100
BL	(0°-30°)	97.0	2.9	B0/110		
BM	(30°-60°)	205.4	6.1	B0/220		
BH	(60°-80°)	113.3	3.4	B1/500		G1/500
BVH	(80°-90°)	7.9	0.2			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	21.1		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°	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4
2.5°	251.4	250.8	250.1	250.1	250.1	249.5	247.5	248.2	250.1	248.8	250.8
5°	250.8	249.5	248.8	248.8	248.8	246.9	246.3	245.6	249.5	246.3	248.8
7.5°	243.7	243.7	242.4	243.7	245.0	243.0	241.7	242.4	245.6	242.4	245.6
10°	238.5	237.2	236.6	236.6	237.9	235.3	234.0	235.3	239.2	235.3	239.8
12.5°	236.6	237.2	235.3	235.3	234.7	231.5	231.5	231.5	234.7	231.5	235.3
15°	239.8	239.2	237.2	236.0	234.0	231.5	230.8	231.5	234.0	230.2	234.7
17.5°	244.3	244.3	241.1	237.9	236.0	233.4	233.4	232.1	234.0	231.5	234.7
20°	255.9	254.0	249.5	244.3	239.2	237.9	235.3	235.3	236.6	234.0	236.0
22.5°	275.8	273.9	266.2	256.5	248.2	245.0	243.7	243.0	241.7	240.5	240.5
25°	302.2	299.0	290.0	278.4	264.3	261.7	259.1	257.2	252.7	252.7	249.5
27.5°	330.5	327.3	317.6	304.8	287.4	283.5	280.3	277.8	270.0	270.0	264.3
30°	362.6	358.8	347.2	333.0	313.1	311.8	307.3	303.5	293.2	292.5	284.8
32.5°	399.9	394.8	383.2	364.6	343.3	344.0	336.9	334.3	320.8	321.5	311.2
35°	442.4	436.6	425.0	400.6	378.7	380.6	374.2	369.7	353.0	353.0	342.0
37.5°	487.4	487.4	472.6	444.3	417.9	422.4	414.7	410.2	393.5	396.1	378.7
40°	537.5	540.7	524.6	492.5	465.5	467.4	461.6	456.5	436.6	441.1	422.4
42.5°	590.2	596.0	581.9	548.4	518.2	524.6	515.0	509.9	488.6	498.3	476.4
45°	666.7	668.0	641.7	609.5	584.4	590.2	576.7	574.8	548.4	558.7	536.9
47.5°	715.0	711.7	692.5	673.2	658.4	670.0	657.7	654.5	624.3	631.4	600.5
50°	747.8	749.7	734.9	733.0	735.5	757.4	755.5	749.0	713.0	707.9	669.3
52.5°	777.3	769.0	766.4	784.4	812.0	837.8	848.1	839.7	800.5	786.3	749.0
55°	772.2	760.0	773.5	817.2	871.8	911.7	913.0	907.2	871.8	866.1	825.5
57.5°	737.5	740.0	767.7	830.0	922.6	963.8	970.9	963.8	934.9	940.0	906.6
60°	689.2	694.4	738.1	818.5	963.1	998.5	1001.7	1010.1	990.8	1004.3	981.1
62.5°	617.2	624.3	680.2	789.5	934.9	987.6	1017.1	1036.4	1032.6	1063.4	1051.2
65°	567.1	567.1	621.7	756.1	907.2	976.6	1021.0	1057.0	1062.2	1111.0	1106.5
67.5°	473.9	477.1	524.0	662.9	873.8	952.2	1019.1	1080.2	1111.0	1188.2	1192.0
70°	327.9	330.5	361.3	473.2	706.0	772.8	871.2	970.9	1063.4	1179.8	1240.3
71°	245.6	248.8	279.0	377.4	597.9	653.2	755.5	859.0	975.4	1126.4	1194.6
72.5°	120.2	122.2	151.7	242.4	416.0	486.7	545.9	644.9	768.3	941.3	1037.7
75°	55.9	56.6	63.0	87.4	158.8	189.0	215.4	279.0	355.6	507.3	624.3
77.5°	41.1	41.1	45.0	57.2	82.3	83.6	82.3	84.2	101.6	145.3	218.6
80°	30.2	30.2	32.8	38.6	54.7	54.7	52.7	53.4	51.4	53.4	60.4
82.5°	19.9	19.9	21.2	23.1	33.4	33.4	32.1	32.1	30.9	30.2	32.8
85°	11.6	12.2	12.9	10.9	14.1	13.5	12.2	13.5	12.9	11.6	14.1
87.5°	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.0	0.6
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	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°	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4
2.5°	248.2	250.1	250.1	247.5	249.5	247.5	248.8	246.9	248.8	245.6	249.5
5°	246.3	248.2	248.2	244.3	248.2	244.3	247.5	243.0	247.5	242.4	247.5
7.5°	241.1	245.6	245.6	240.5	245.0	241.1	245.0	240.5	244.3	238.5	245.0
10°	235.3	239.8	240.5	235.3	240.5	236.0	241.7	236.0	241.7	235.3	242.4
12.5°	231.5	236.6	237.9	232.1	238.5	232.7	239.8	233.4	239.8	232.7	241.1
15°	230.8	235.3	236.6	231.5	237.2	230.8	239.2	231.5	239.8	232.1	241.7
17.5°	231.5	235.3	236.6	230.8	236.6	231.5	238.5	232.1	239.8	232.7	241.7
20°	233.4	236.0	236.0	232.7	237.2	232.7	238.5	232.1	240.5	234.0	242.4
22.5°	239.2	239.8	239.8	237.2	239.8	236.6	241.1	236.6	242.4	237.2	245.0
25°	248.8	248.2	246.9	246.3	246.9	245.0	247.5	244.3	250.1	245.6	253.3
27.5°	265.5	263.0	261.7	261.7	261.0	261.7	261.7	260.4	263.0	261.7	266.8
30°	286.1	281.6	279.7	281.6	279.0	281.6	281.0	280.3	282.9	281.6	286.1
32.5°	313.1	305.4	304.1	308.0	302.8	307.3	303.5	305.4	307.3	308.6	311.2
35°	344.6	335.6	334.3	338.2	332.4	338.8	334.3	336.9	338.2	341.4	343.3
37.5°	381.9	371.0	369.1	374.2	366.5	373.6	367.1	374.8	372.9	377.4	379.3
40°	426.9	414.1	409.6	416.6	407.6	413.4	407.0	415.3	413.4	422.4	424.3
42.5°	482.2	463.6	459.1	466.1	452.6	454.6	449.4	459.1	457.8	470.0	471.9
45°	539.4	516.9	510.5	517.6	502.1	506.0	498.3	508.6	507.9	517.6	525.3
47.5°	603.1	575.4	567.1	574.8	556.2	560.7	552.9	563.9	564.5	575.4	583.2
50°	669.3	640.4	629.4	636.5	619.2	622.4	614.7	628.2	627.5	642.3	648.1
52.5°	741.3	711.7	703.4	706.6	686.0	689.9	683.5	700.2	696.3	705.3	716.9
55°	821.0	787.0	777.3	787.0	762.5	767.7	759.3	774.8	768.3	779.9	783.1
57.5°	902.7	869.3	861.6	868.6	845.5	849.3	838.4	851.3	846.1	853.8	859.0
60°	989.5	959.3	951.6	959.3	936.8	937.4	918.8	932.3	924.6	934.2	932.3
62.5°	1072.4	1046.7	1044.8	1055.7	1027.4	1024.2	1001.7	1011.4	1000.4	1006.9	999.1
65°	1143.2	1128.4	1131.0	1140.0	1114.9	1107.2	1081.4	1086.6	1070.5	1070.5	1060.9
67.5°	1235.8	1219.7	1219.7	1227.4	1195.9	1176.0	1140.6	1136.1	1109.7	1104.6	1082.1
70°	1312.9	1317.4	1312.3	1318.7	1281.4	1240.9	1194.0	1171.5	1136.7	1120.0	1093.7
71°	1285.3	1311.0	1320.0	1325.1	1294.3	1253.8	1204.9	1176.0	1142.5	1120.0	1091.7
72.5°	1159.9	1222.2	1257.6	1257.6	1261.5	1235.8	1188.8	1157.3	1119.4	1089.8	1063.4
75°	812.7	914.3	959.9	954.8	988.2	999.8	1003.6	990.1	968.9	926.5	907.8
77.5°	362.0	477.1	545.9	546.5	582.5	614.0	639.1	665.5	655.8	635.2	633.9
80°	82.3	149.2	191.0	192.9	225.7	254.6	272.0	298.3	301.5	272.0	255.3
82.5°	35.4	41.8	47.6	46.9	57.9	69.4	82.3	89.4	86.2	71.4	67.5
85°	14.8	19.3	20.6	19.3	23.8	26.4	30.9	31.5	36.6	32.8	34.7
87.5°	0.0	0.6	0.6	0.0	1.3	0.0	1.3	0.6	3.2	1.3	3.9
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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CATALOG NUMBER: ISS-AF-350-LED-E1-T3-8030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4
2.5°	246.9	250.1	246.9	250.1	248.2	250.1	249.5	250.1	246.9	250.1	246.3
5°	242.4	247.5	243.0	246.9	243.0	247.5	247.5	247.5	243.0	248.2	243.7
7.5°	238.5	244.3	238.5	244.3	240.5	245.0	245.0	246.9	241.7	247.5	241.1
10°	234.7	241.7	234.7	243.0	236.6	243.7	244.3	245.6	238.5	246.3	239.8
12.5°	232.7	241.7	233.4	241.7	234.0	243.7	244.3	245.6	237.9	247.5	239.2
15°	232.7	242.4	233.4	242.4	234.0	243.7	245.0	246.3	237.9	248.2	239.2
17.5°	232.7	242.4	234.7	243.0	235.3	244.3	245.6	246.9	239.2	248.2	240.5
20°	234.7	243.7	236.0	245.0	237.2	246.3	246.9	248.8	240.5	248.8	241.7
22.5°	239.2	246.9	240.5	248.8	243.0	250.1	250.8	252.7	246.3	253.3	247.5
25°	246.9	255.3	250.1	256.5	253.3	259.1	260.4	260.4	257.8	262.3	260.4
27.5°	263.0	269.4	265.5	271.3	269.4	273.9	273.9	274.5	276.5	277.8	279.7
30°	283.5	288.0	286.8	290.0	290.6	293.2	293.2	297.0	304.8	297.0	296.4
32.5°	311.2	313.8	314.4	315.7	318.3	320.2	322.8	327.3	333.7	315.7	309.9
35°	345.3	345.9	347.8	349.8	354.3	355.6	363.9	360.7	360.7	332.4	320.2
37.5°	382.6	382.6	387.7	387.7	398.6	399.3	407.6	390.9	381.3	344.6	326.6
40°	429.5	428.8	434.6	435.9	450.7	451.4	450.1	413.4	392.8	347.8	323.4
42.5°	479.0	480.9	488.6	491.2	502.1	506.0	489.9	428.8	398.0	345.9	312.5
45°	533.0	536.9	546.5	553.6	565.2	560.7	522.1	435.9	392.2	334.3	291.3
47.5°	592.2	596.0	603.7	617.2	622.4	617.2	548.4	438.5	383.2	316.3	260.4
50°	652.0	658.4	669.3	688.6	691.2	678.3	580.6	448.1	376.1	297.7	225.0
52.5°	719.5	725.9	738.8	770.9	764.5	738.1	618.5	466.1	378.1	286.1	194.8
55°	790.8	799.8	824.9	856.4	842.3	801.1	660.3	492.5	385.8	273.9	161.4
57.5°	866.1	875.7	908.5	945.8	918.1	862.8	702.7	513.1	389.6	248.8	124.7
60°	940.6	954.1	996.6	1027.4	984.4	915.6	740.7	526.6	379.3	201.2	96.4
62.5°	1008.8	1030.7	1078.2	1094.9	1026.1	949.0	761.3	516.9	337.5	138.9	77.8
65°	1057.0	1085.3	1116.2	1114.2	1018.4	938.1	745.8	472.6	251.4	91.9	66.2
67.5°	1077.6	1103.9	1111.0	1078.2	963.1	889.8	690.5	380.6	144.7	68.8	57.9
70°	1085.3	1107.8	1067.9	988.9	855.1	771.5	564.5	242.4	79.1	55.9	50.2
71°	1082.1	1093.0	1017.1	924.6	786.3	698.9	495.1	184.5	67.5	52.1	47.6
72.5°	1038.4	1022.9	905.9	803.0	666.7	578.0	385.1	116.4	55.3	46.9	44.4
75°	848.7	779.3	666.7	569.7	453.9	363.3	209.0	59.8	44.4	40.5	38.6
77.5°	554.9	494.4	401.8	326.6	248.2	188.4	85.5	41.1	35.4	34.1	33.4
80°	198.0	158.8	120.2	105.4	79.7	65.6	41.8	31.5	27.6	28.3	27.6
82.5°	55.9	51.4	44.4	41.1	36.0	35.4	27.0	23.8	21.9	23.1	22.5
85°	27.6	23.8	17.4	16.7	12.9	14.8	13.5	16.1	14.1	14.8	13.5
87.5°	1.9	2.6	0.6	1.9	0.0	1.9	2.6	3.2	0.6	2.6	1.9
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°
251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	110°	113.5
250.8	248.2	251.4	248.2	251.4	249.5	251.4	249.5	251.4	252.7	252.7	112.5°	135.5
249.5	245.0	250.8	247.5	251.4	248.2	250.8	248.8	252.0	253.3	254.6	115°	158.0
248.8	244.3	250.1	245.6	251.4	246.9	250.8	248.2	252.0	253.3	255.9	117.5°	180.5
248.2	242.4	250.1	243.7	250.8	246.3	250.8	246.9	251.4	252.7	253.3	120°	204.0
248.2	241.7	250.1	243.0	250.8	244.3	250.1	244.3	250.8	250.1	248.2	122.5°	228.5
248.8	240.5	250.1	241.7	250.1	242.4	249.5	241.7	248.2	246.3	245.0	125°	254.0
248.8	240.5	249.5	241.1	248.8	241.7	247.5	240.5	246.3	245.6	243.7	127.5°	277.5
250.1	241.7	249.5	243.7	249.5	242.4	246.9	240.5	245.0	241.1	233.4	130°	301.5
254.0	248.2	254.0	248.2	250.8	244.3	246.3	238.5	237.9	231.5	219.2	132.5°	325.5
263.0	260.4	259.1	252.0	250.1	241.7	239.2	230.2	227.0	217.3	200.6	135°	348.5
274.5	268.8	261.0	252.7	244.3	234.0	227.0	219.9	212.8	200.6	179.4	137.5°	369.5
282.3	273.9	257.8	246.3	230.8	222.5	210.2	202.5	192.2	176.8	156.2	140°	391.0
287.4	274.5	250.1	236.6	216.0	205.1	189.0	180.7	165.9	151.1	136.3	142.5°	412.5
288.7	272.0	239.8	225.0	198.0	185.8	164.6	155.6	141.4	131.2	125.4	145°	433.5
283.5	263.0	223.7	204.5	174.9	160.7	140.8	134.4	126.0	122.2	119.6	147.5°	452.5
273.3	245.6	198.7	176.2	145.9	135.0	124.7	124.7	120.2	118.3	113.8	150°	469.0
254.6	219.9	166.5	144.7	124.1	122.2	116.4	118.9	115.7	114.4	108.0	152.5°	486.0
225.7	183.2	134.4	121.5	111.9	113.2	109.3	111.9	109.9	109.3	101.6	155°	503.5
188.4	145.9	113.2	108.7	102.2	104.2	100.9	104.2	102.2	102.9	97.1	157.5°	517.5
150.5	118.3	100.3	97.7	93.2	94.5	92.6	95.8	95.2	97.7	94.5	160°	530.0
120.2	100.9	89.4	87.4	84.9	85.5	84.9	88.1	88.7	93.9	93.9	162.5°	539.0
99.7	86.8	80.4	79.7	77.2	77.8	78.4	81.7	84.2	90.7	93.9	165°	549.0
85.5	77.8	73.3	72.7	71.4	72.0	73.3	77.2	79.7	88.1	95.2	167.5°	558.5
75.2	70.7	67.5	67.5	66.2	67.5	68.8	72.7	75.9	85.5	92.6	170°	565.0
67.5	64.3	62.4	63.0	62.4	63.7	64.9	68.8	72.7	81.7	88.7	172.5°	567.5
60.4	58.5	57.2	57.9	57.9	59.8	61.1	64.9	68.2	76.5	85.5	175°	569.0
54.7	53.4	52.7	53.4	54.0	55.9	57.9	60.4	63.0	70.7	81.0	177.5°	574.0
50.2	48.9	48.9	48.9	49.5	51.4	54.0	55.3	57.9	66.2	75.9	180°	576.0
47.6	46.9	46.9	46.9	47.6	49.5	52.1	53.4	55.9	64.3	73.3		
44.4	44.4	45.0	44.4	45.6	46.3	48.9	50.2	53.4	61.7	70.1		
39.2	39.2	39.9	39.9	41.1	41.1	43.1	44.4	48.2	55.3	63.0		
34.7	34.7	36.0	35.4	35.4	34.1	36.6	37.9	41.1	48.2	55.9		
29.6	28.9	30.2	28.3	27.6	26.4	28.3	30.2	35.4	39.9	41.1		
23.1	21.2	21.9	19.9	19.9	18.6	20.6	21.2	24.4	28.9	31.5		
14.1	11.6	12.9	10.9	12.2	10.9	11.6	12.2	14.8	18.0	17.4		
3.2	1.9	2.6	0.6	1.9	0.0	1.9	0.6	1.9	0.6	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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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°	251.4	251.4
135.8	136.0	136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	2.5°	254.0	253.3
158.0	158.0	158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	5°	257.2	257.2
180.8	181.0	180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	7.5°	257.8	259.1
204.0	204.0	204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	10°	253.3	252.0
228.2	228.0	228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	12.5°	246.3	245.0
254.0	254.0	253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	15°	245.6	245.0
277.2	277.0	277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	17.5°	241.1	237.9
301.2	301.0	301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	20°	228.2	222.5
325.2	325.0	325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	22.5°	210.2	201.9
348.2	348.0	348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	25°	188.4	176.8
369.2	369.0	369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	27.5°	164.6	153.0
390.5	390.0	390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	30°	145.9	136.9
412.2	412.0	412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	32.5°	132.4	127.3
433.2	433.0	433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	35°	121.5	118.3
452.2	452.0	452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	37.5°	114.4	109.3
469.0	469.0	469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	40°	107.4	100.9
486.0	486.0	486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	42.5°	100.9	94.5
503.2	503.0	503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	45°	94.5	90.0
517.2	517.0	517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	47.5°	91.3	87.4
530.0	530.0	530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	50°	90.0	86.2
539.5	540.0	540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	52.5°	91.3	88.1
549.5	550.0	550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	55°	93.9	91.9
558.2	558.0	558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	57.5°	91.3	88.1
564.5	564.0	564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	60°	85.5	80.4
567.2	567.0	567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	62.5°	81.7	76.5
569.5	570.0	570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	65°	78.4	74.6
574.0	574.0	574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	67.5°	75.2	71.4
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	71.4	67.5
										71°	69.4	64.9
										72.5°	66.2	61.1
										75°	59.8	54.7
										77.5°	49.5	43.7
										80°	37.9	34.1
										82.5°	28.3	25.1
										85°	14.8	11.6
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	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-T3-8030-ULG

tinued):

175°	180°
251.4	251.4
254.0	253.3
257.8	258.5
260.4	259.8
253.3	252.0
246.3	246.3
245.6	245.6
236.6	236.0
221.2	219.2
199.3	197.4
172.3	169.7
148.5	148.5
132.4	132.4
124.1	124.7
116.4	117.0
104.8	104.8
95.2	95.2
90.7	90.0
86.8	86.2
84.2	83.6
81.7	81.7
79.7	79.7
79.7	78.4
80.4	78.4
79.1	77.8
79.1	78.4
80.4	79.1
80.4	77.8
73.3	68.8
69.4	65.6
62.4	59.8
53.4	52.7
41.8	41.1
34.1	32.1
24.4	21.2
9.6	9.6
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



T3-8030-ULG

<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

(END OF REPORT)