

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: P228329

Luminaire Tested: **ISS-AF-350-LED-E1-SL4-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228329
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-SL4-7030-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) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3293.2 lumens
Efficiency: N/A
Efficacy: 89.5 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

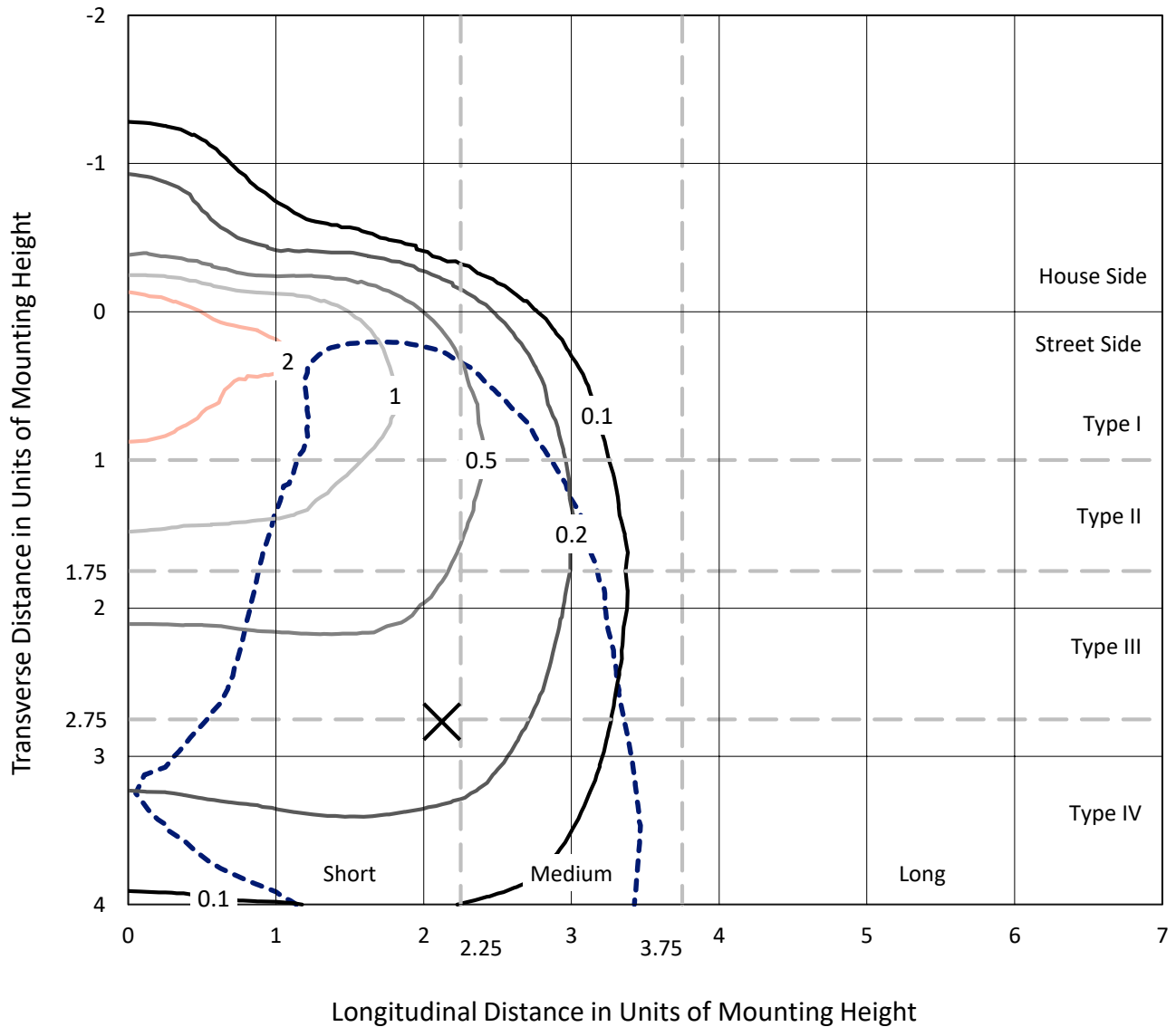
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

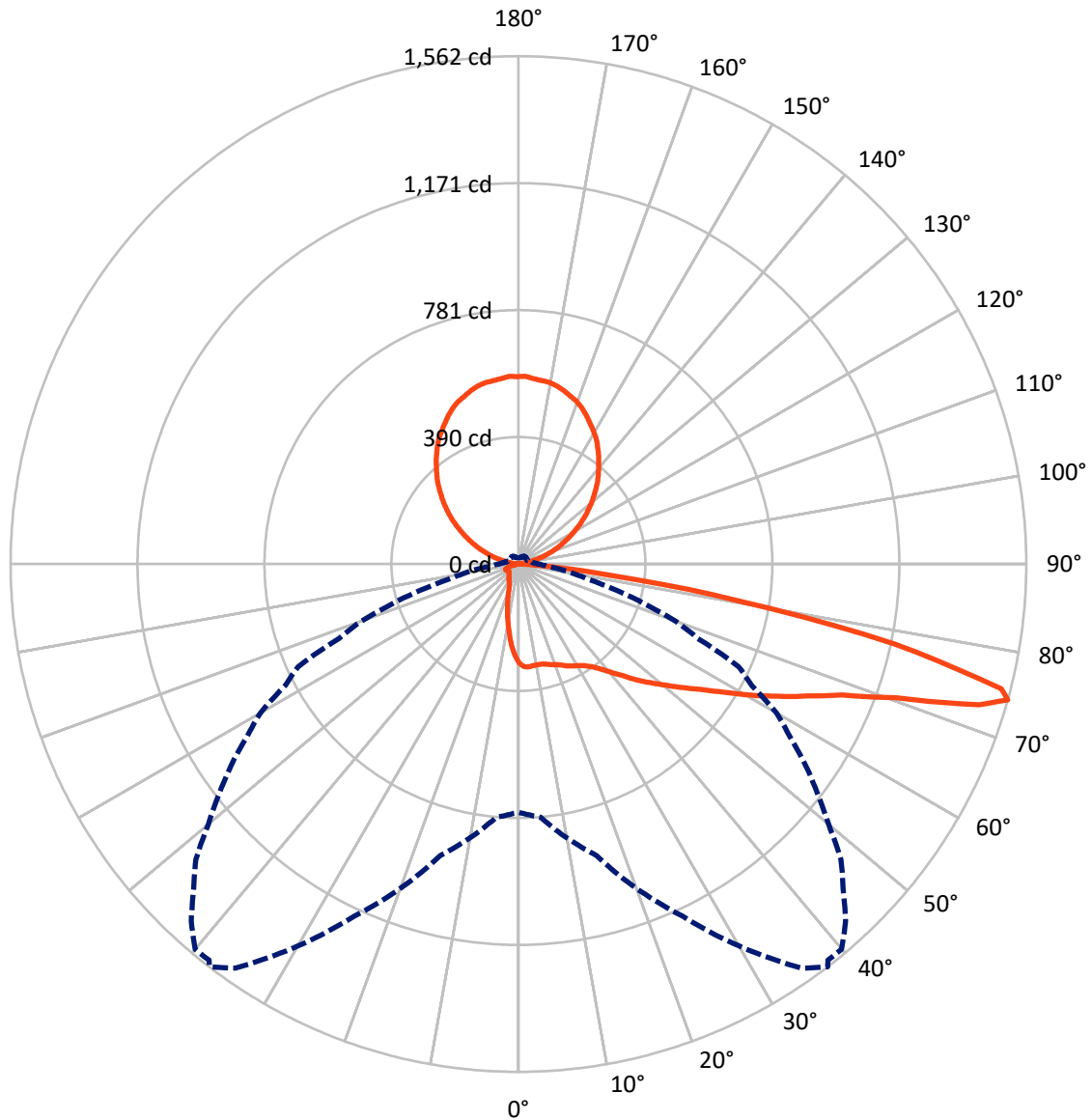


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - Non-Cutoff

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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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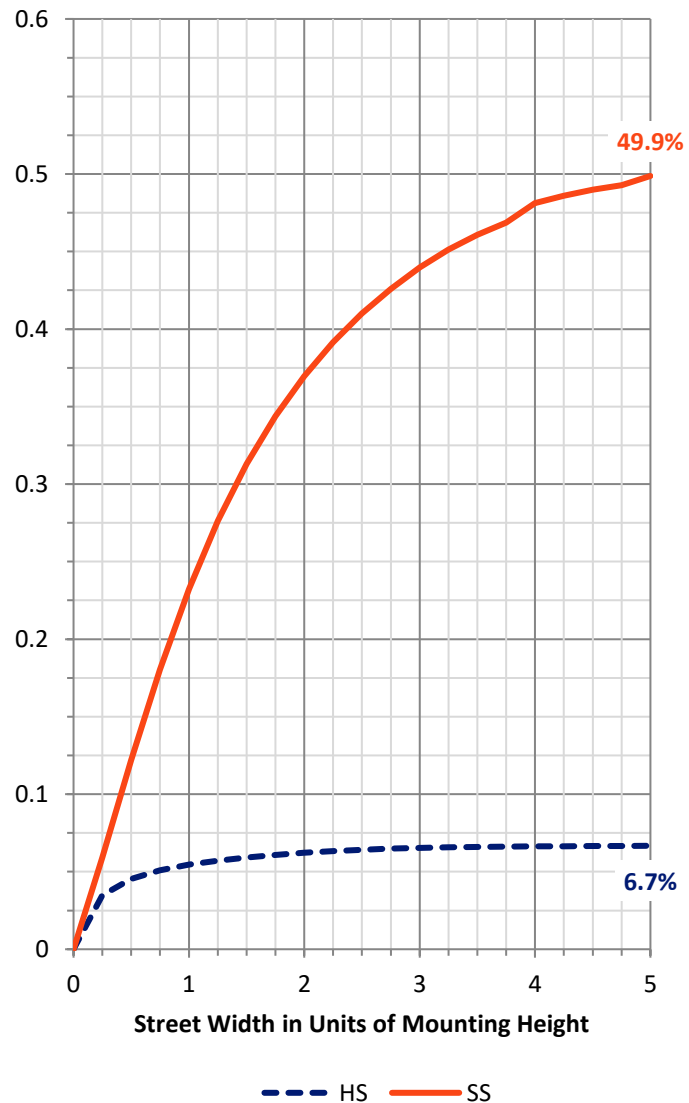
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	221.4	713.1	934.5
	% Fixture	6.7	21.7	28.4
Street Side	Lumens	1645.6	713.1	2358.7
	% Fixture	50.0	21.7	71.6
Total	Lumens	1867.0	1426.2	3293.2
	% Fixture	56.7	43.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	0.8
10°-20°	67.6	2.1
20°-30°	104.7	3.2
30°-40°	155.3	4.7
40°-50°	238.9	7.3
50°-60°	353.2	10.7
60°-70°	470.7	14.3
70°-80°	406.3	12.3
80°-90°	43.7	1.3
90°-100°	4.7	0.1
100°-110°	69.0	2.1
110°-120°	153.0	4.6
120°-130°	223.9	6.8
130°-140°	265.6	8.1
140°-150°	269.3	8.2
150°-160°	231.1	7.0
160°-170°	155.1	4.7
170°-180°	54.3	1.7
0°-90°	1867.0	56.7
0°-180°	3293.2	100.0



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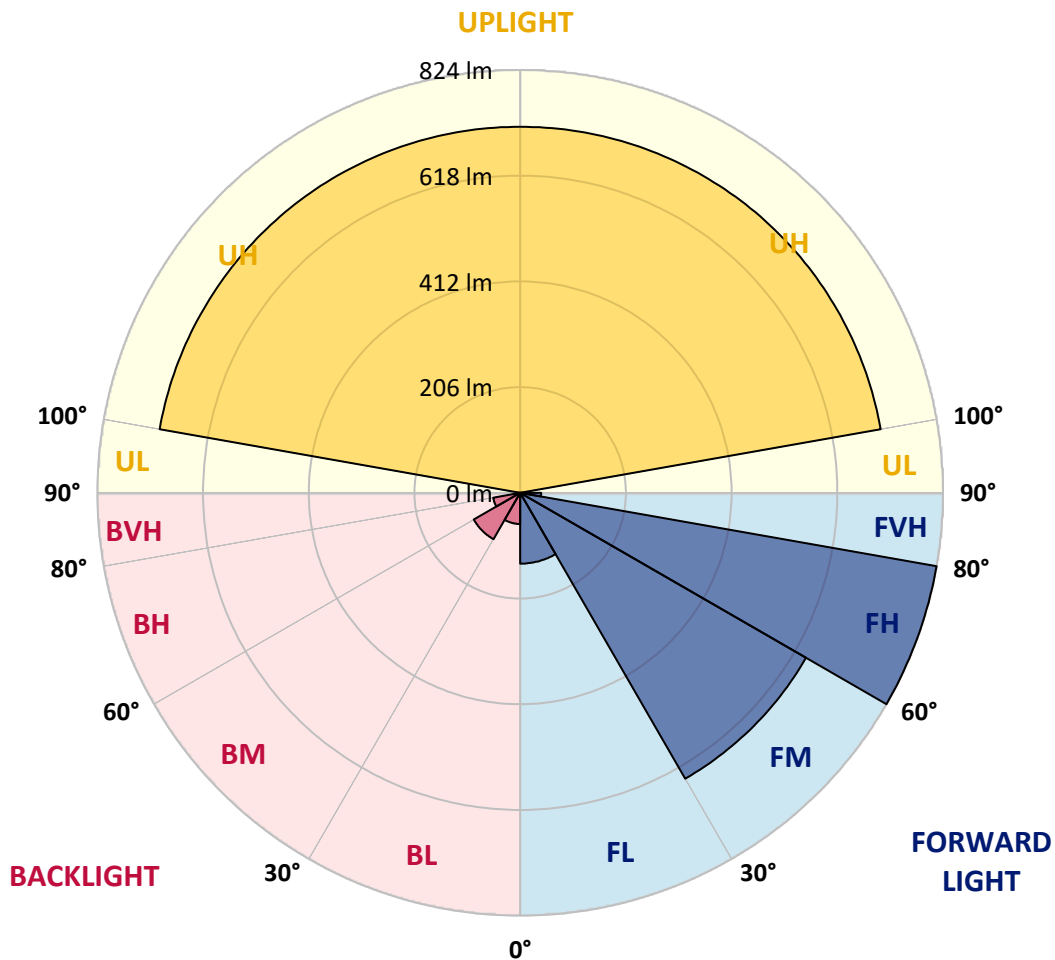
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	138.0	4.2			
FM	(30°-60°)	643.0	19.5			
FH	(60°-80°)	823.7	25.0			G1/1800
FVH	(80°-90°)	40.8	1.2			G1/100
BL	(0°-30°)	60.8	1.8	B0/110		
BM	(30°-60°)	104.3	3.2	B0/220		
BH	(60°-80°)	53.4	1.6	B0/110		G0/110
BVH	(80°-90°)	2.9	0.1			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	21.7		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°	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7
2.5°	322.1	321.4	320.0	319.3	317.9	315.8	317.9	315.1	313.7	315.1	312.3
5°	327.7	327.0	325.6	322.8	321.4	317.9	320.0	316.5	315.8	317.2	313.7
7.5°	328.4	327.0	324.9	321.4	320.0	315.8	317.2	313.0	311.6	313.0	310.9
10°	326.3	325.6	323.5	317.9	316.5	315.1	314.4	311.6	310.9	310.2	309.5
12.5°	322.8	322.8	321.4	319.3	318.6	315.8	316.5	313.7	314.4	313.0	311.6
15°	321.4	320.7	322.1	323.5	323.5	319.3	322.1	320.0	318.6	319.3	317.2
17.5°	320.0	320.7	325.6	328.4	329.8	325.6	329.8	325.6	322.8	326.3	322.8
20°	319.3	321.4	329.8	336.0	336.7	329.8	336.7	329.8	329.8	333.9	327.7
22.5°	322.8	326.3	338.1	345.1	346.5	337.4	345.8	336.7	336.7	340.2	333.9
25°	333.9	337.4	350.7	358.3	357.0	347.2	354.9	345.8	345.1	349.3	340.9
27.5°	348.6	353.5	366.0	373.0	368.1	354.9	366.0	352.8	352.8	359.0	347.9
30°	369.5	373.0	384.1	384.8	378.6	362.5	375.1	360.4	358.3	369.5	355.6
32.5°	392.5	395.3	403.7	398.8	389.7	373.0	387.6	370.2	369.5	381.4	365.3
35°	416.9	419.7	422.5	414.1	405.8	387.6	403.7	386.2	385.5	398.8	383.4
37.5°	442.0	442.0	442.0	432.2	426.7	409.2	423.9	409.9	408.5	422.5	407.8
40°	462.2	463.6	461.5	452.5	449.7	437.1	449.7	437.1	439.2	451.8	439.9
42.5°	479.0	480.4	481.0	473.4	476.2	469.2	479.0	469.9	470.6	484.5	477.6
45°	495.7	495.0	500.6	498.5	506.8	507.5	513.1	509.6	511.0	521.5	519.4
47.5°	513.1	509.6	515.9	525.0	540.3	545.2	548.7	550.1	555.6	560.5	565.4
50°	529.9	526.4	530.5	550.8	575.2	585.6	586.3	593.3	599.6	606.5	616.3
52.5°	547.3	544.5	548.7	577.3	616.3	630.9	628.9	640.7	649.8	657.4	673.5
55°	565.4	562.6	566.8	609.3	660.2	680.4	678.3	695.1	712.5	715.3	733.4
57.5°	582.8	579.4	591.2	647.0	712.5	743.2	733.4	759.2	776.0	774.6	799.7
60°	601.7	598.9	617.7	693.0	778.0	817.8	803.1	837.3	849.2	844.3	868.0
62.5°	619.8	619.1	650.5	746.7	857.5	895.9	882.6	912.6	921.0	914.7	926.5
65°	636.5	640.7	686.0	800.4	934.2	978.1	960.0	990.0	999.7	994.9	1015.1
67.5°	664.4	669.3	729.9	868.7	1029.0	1074.3	1059.0	1090.4	1105.0	1103.6	1125.9
70°	705.5	714.6	794.8	965.6	1173.3	1231.2	1222.8	1261.2	1296.7	1294.0	1316.3
72.5°	777.3	792.0	901.4	1116.2	1410.4	1480.8	1471.0	1492.6	1486.4	1435.5	1394.3
74°	763.4	781.5	927.9	1195.0	1517.0	1561.7	1545.6	1546.3	1489.2	1411.8	1345.5
75°	712.5	731.3	889.6	1185.2	1509.4	1533.8	1510.8	1482.2	1413.2	1334.4	1252.8
77.5°	488.7	513.1	653.9	957.2	1215.2	1181.7	1176.1	1121.8	1030.4	941.9	837.3
80°	250.3	267.7	338.1	500.6	720.9	687.4	698.6	654.6	578.7	514.5	407.8
82.5°	60.0	64.1	99.7	193.8	312.3	285.8	290.0	256.6	212.6	173.6	134.6
85°	31.4	35.6	48.8	53.7	82.3	85.1	83.0	80.2	65.5	55.1	48.1
87.5°	0.0	0.0	0.0	1.4	0.7	0.0	0.7	0.0	0.0	0.7	1.4
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°	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°	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7
2.5°	314.4	313.0	314.4	310.2	312.3	308.8	310.2	306.8	308.2	305.4	306.1
5°	315.8	312.3	314.4	310.9	311.6	308.8	308.2	306.8	306.1	304.0	302.6
7.5°	312.3	309.5	308.8	307.5	305.4	306.1	303.3	302.6	300.5	300.5	296.3
10°	308.8	309.5	305.4	306.8	303.3	304.0	299.1	300.5	297.0	299.8	293.5
12.5°	311.6	312.3	308.8	310.9	304.7	306.1	301.9	304.0	299.1	302.6	294.9
15°	317.9	317.2	315.8	315.8	309.5	312.3	307.5	308.8	304.0	308.2	299.8
17.5°	323.5	322.8	320.7	320.0	315.8	316.5	311.6	314.4	308.8	312.3	304.0
20°	329.8	326.3	325.6	324.9	320.0	320.0	316.5	317.9	312.3	316.5	306.8
22.5°	334.6	331.9	331.2	328.4	324.9	326.3	321.4	322.1	316.5	320.7	312.3
25°	342.3	338.8	338.8	334.6	332.6	331.9	329.1	331.2	325.6	328.4	320.7
27.5°	352.8	345.1	347.9	343.7	342.3	341.6	340.2	341.6	337.4	339.5	331.9
30°	362.5	352.8	357.0	351.4	354.2	351.4	353.5	351.4	351.4	351.4	347.9
32.5°	375.8	363.9	372.3	363.9	369.5	365.3	372.3	368.1	370.9	370.2	368.8
35°	394.6	380.7	392.5	381.4	391.1	385.5	395.3	393.2	398.8	396.0	398.8
37.5°	419.7	405.1	419.0	408.5	420.4	412.0	426.0	424.6	436.4	432.2	436.4
40°	451.1	440.6	451.1	443.4	456.0	452.5	467.1	467.8	481.0	479.0	483.8
42.5°	485.9	478.3	488.7	484.5	497.1	499.9	516.6	520.8	533.3	536.8	537.5
45°	523.6	522.2	530.5	534.7	547.3	555.6	570.3	580.7	594.7	602.4	601.0
47.5°	567.5	573.1	578.7	589.1	600.3	617.7	632.3	645.6	661.6	666.5	668.6
50°	617.0	626.8	631.6	646.3	657.4	679.0	699.3	716.0	733.4	731.3	732.7
52.5°	669.3	681.8	688.8	706.2	720.9	746.0	763.4	779.4	801.1	795.5	793.4
55°	727.2	746.0	751.6	771.1	783.6	809.4	824.8	852.6	861.7	856.1	844.3
57.5°	788.5	810.8	817.1	843.6	849.9	877.7	891.0	909.8	917.5	908.4	893.1
60°	858.2	878.4	883.3	907.0	915.4	941.2	950.9	967.7	973.3	950.9	929.3
62.5°	927.9	948.9	951.6	972.6	980.9	1003.2	1014.4	1024.1	1021.4	988.6	961.4
65°	1007.4	1027.6	1034.6	1055.5	1060.4	1077.1	1086.2	1075.0	1068.8	1019.3	988.6
67.5°	1133.6	1155.2	1158.0	1162.9	1162.2	1153.8	1149.6	1111.3	1083.4	992.1	948.2
70°	1299.5	1283.5	1252.1	1215.9	1189.4	1142.0	1114.1	1035.3	976.7	874.3	800.4
72.5°	1329.5	1277.2	1199.8	1137.8	1073.6	999.0	939.1	819.9	737.6	630.2	552.2
74°	1244.5	1159.4	1077.8	990.7	916.8	808.0	747.4	596.8	515.2	406.5	311.6
75°	1142.0	1042.3	950.2	839.4	770.4	640.0	582.8	420.4	338.8	241.2	162.4
77.5°	728.5	609.3	521.5	393.2	339.5	234.3	171.5	106.7	78.8	69.0	60.0
80°	327.0	232.9	184.8	127.6	106.7	81.6	69.0	55.8	50.9	44.6	42.5
82.5°	104.6	83.7	79.5	71.1	71.1	57.2	48.8	38.3	34.9	30.0	27.2
85°	45.3	42.5	43.9	40.4	41.1	31.4	25.1	18.8	18.8	13.2	11.9
87.5°	1.4	0.0	0.7	0.0	1.4	0.0	0.7	0.0	0.7	0.0	0.7
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°	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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CATALOG NUMBER: ISS-AF-350-LED-E1-SL4-7030-ULG

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



REPORT NUMBER: P228329

CATALOG NUMBER: ISS-AF-350-LED-E1-SL4-7030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7
2.5°	303.3	304.7	304.0	301.2	300.5	298.4	293.5	294.2	291.4	293.5	290.0
5°	300.5	299.8	297.0	293.5	290.0	285.8	282.4	281.0	278.2	276.8	274.7
7.5°	296.3	293.5	288.6	283.1	278.2	272.6	269.8	264.9	263.5	258.7	258.0
10°	294.9	290.0	284.4	277.5	269.1	260.7	260.0	251.7	251.0	243.3	241.2
12.5°	297.7	291.4	284.4	276.1	266.3	254.5	254.5	241.9	241.2	230.8	227.3
15°	303.3	295.6	286.5	276.8	264.2	249.6	248.9	234.3	232.9	220.3	216.1
17.5°	308.2	297.7	289.3	276.1	261.4	244.7	241.2	226.6	223.8	209.2	203.6
20°	311.6	299.8	290.0	274.7	256.6	237.0	232.2	216.8	210.5	195.9	188.2
22.5°	315.8	304.7	291.4	274.0	253.8	230.8	220.3	206.4	197.3	182.0	171.5
25°	322.1	312.3	296.3	276.1	251.7	224.5	210.5	195.9	183.4	168.0	152.7
27.5°	331.9	322.1	303.3	278.9	251.0	218.2	202.9	184.8	169.4	152.7	135.3
30°	345.8	335.3	315.1	286.5	251.7	213.3	194.5	175.0	156.9	137.3	119.2
32.5°	363.9	355.6	330.5	294.9	254.5	209.2	186.8	164.5	142.2	123.4	107.4
35°	389.0	383.4	352.1	310.9	261.4	207.1	179.2	154.8	129.7	110.9	93.4
37.5°	426.0	418.3	383.4	333.9	272.6	205.7	173.6	142.9	119.2	99.0	84.4
40°	472.7	462.2	420.4	361.8	290.0	206.4	168.7	133.9	110.2	88.5	76.7
42.5°	528.5	513.1	465.7	396.0	307.5	207.8	165.9	125.5	103.2	80.2	71.1
45°	591.2	573.8	519.4	438.5	332.6	211.2	163.8	118.5	96.9	73.9	67.6
47.5°	652.6	635.1	574.5	481.0	358.3	217.5	165.2	114.3	92.7	70.4	63.4
50°	712.5	694.4	623.3	519.4	380.7	225.9	170.8	115.0	92.0	69.0	61.4
52.5°	765.5	743.2	665.1	549.4	396.7	231.5	175.7	117.1	92.7	68.3	60.7
55°	818.5	789.9	698.6	573.1	406.5	232.2	175.7	117.8	93.4	68.3	60.0
57.5°	858.2	825.5	724.4	587.0	409.9	228.7	171.5	114.3	89.2	67.6	58.6
60°	883.3	848.5	742.5	596.1	405.1	214.0	149.2	101.1	78.8	62.7	54.4
62.5°	904.2	868.7	748.1	580.7	363.9	170.1	116.4	82.3	65.5	55.8	50.2
65°	909.1	866.6	709.0	513.1	284.4	117.8	84.4	64.8	53.7	49.5	45.3
67.5°	835.2	784.3	596.1	401.6	193.8	80.9	62.7	53.0	46.0	43.9	42.5
70°	679.0	623.3	436.4	262.8	108.1	56.5	48.1	43.9	39.7	39.7	37.6
72.5°	437.8	380.0	223.8	112.2	55.1	43.2	39.0	37.6	34.2	34.9	32.8
74°	223.8	174.3	91.3	59.3	45.3	38.3	34.9	34.2	30.7	31.4	29.3
75°	113.6	89.9	64.1	49.5	41.8	36.3	32.1	32.1	27.9	28.6	26.5
77.5°	53.0	50.9	43.9	39.0	35.6	30.7	26.5	25.8	21.6	23.0	20.2
80°	37.0	37.0	34.2	32.8	29.3	25.1	20.2	20.2	16.0	16.7	14.6
82.5°	20.9	19.5	19.5	22.3	23.0	18.8	14.6	13.9	11.9	11.9	9.8
85°	9.1	10.5	12.5	15.3	16.7	14.6	10.5	9.8	6.3	6.3	3.5
87.5°	0.0	0.7	0.7	1.4	2.8	2.8	0.0	1.4	0.0	0.7	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°
304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	110°	114.0
291.4	287.9	290.0	286.5	287.9	284.4	285.8	283.7	281.7	278.9	278.2	112.5°	136.0
272.6	269.8	269.1	265.6	266.3	263.5	260.7	257.3	253.1	247.5	245.4	115°	158.0
251.7	251.0	246.1	244.0	241.2	238.4	233.6	228.0	219.6	211.9	207.1	117.5°	181.0
233.6	231.5	224.5	221.0	216.8	213.3	206.4	198.7	186.8	175.0	168.7	120°	204.0
218.2	215.4	206.4	202.2	195.9	191.7	183.4	173.6	156.9	140.1	132.5	122.5°	228.0
205.7	201.5	191.0	184.8	176.4	172.2	163.1	149.2	129.0	111.5	101.1	125°	254.0
191.0	185.4	174.3	166.6	158.3	150.6	141.5	126.9	103.9	87.8	77.4	127.5°	277.0
175.0	168.0	156.2	145.7	136.6	129.7	120.6	106.0	83.0	70.4	64.8	130°	301.0
158.3	147.1	136.6	127.6	117.1	110.2	101.1	87.8	70.4	63.4	61.4	132.5°	325.0
140.8	128.3	117.8	108.8	99.0	92.7	85.1	74.6	64.1	62.0	62.0	135°	348.0
123.4	110.9	101.1	92.0	83.7	79.5	72.5	65.5	60.7	61.4	62.0	137.5°	369.0
107.4	94.8	85.8	78.8	71.1	68.3	62.7	58.6	57.9	60.0	60.7	140°	390.0
93.4	82.3	73.9	68.3	62.0	60.7	55.8	53.7	55.8	58.6	57.9	142.5°	412.0
81.6	72.5	64.1	60.7	55.1	54.4	50.9	49.5	52.3	55.8	55.8	145°	433.0
72.5	64.1	57.9	55.1	50.9	50.2	47.4	46.0	48.1	53.0	54.4	147.5°	452.0
64.8	60.0	53.7	50.9	48.1	46.7	45.3	43.9	44.6	50.9	51.6	150°	469.0
60.0	56.5	50.9	49.5	46.0	45.3	43.2	41.8	42.5	47.4	49.5	152.5°	486.0
56.5	53.7	48.8	48.1	44.6	43.9	41.8	40.4	41.1	45.3	47.4	155°	503.0
53.7	50.9	46.7	45.3	43.2	42.5	41.1	39.7	39.7	43.9	46.0	157.5°	517.0
52.3	49.5	45.3	43.9	41.8	41.1	39.7	38.3	39.0	42.5	43.9	160°	530.0
51.6	48.1	44.6	42.5	41.1	39.7	38.3	37.0	37.6	41.1	42.5	162.5°	540.0
51.6	47.4	44.6	42.5	40.4	38.3	37.6	35.6	37.0	39.7	41.8	165°	550.0
51.6	47.4	44.6	42.5	41.1	39.0	37.6	36.3	37.0	39.7	41.8	167.5°	558.0
50.2	46.7	45.3	43.2	42.5	40.4	39.7	38.3	38.3	41.8	45.3	170°	564.0
48.1	46.0	45.3	43.9	43.9	42.5	42.5	41.1	41.1	45.3	48.8	172.5°	567.0
45.3	43.9	44.6	43.9	43.9	43.9	43.2	43.2	43.2	46.7	50.9	175°	570.0
42.5	41.8	42.5	42.5	43.2	42.5	43.2	42.5	42.5	46.0	50.2	177.5°	574.0
38.3	38.3	39.0	38.3	39.0	39.0	39.7	39.7	39.7	41.8	46.0	180°	576.0
33.5	32.8	33.5	32.8	34.2	32.8	34.2	34.9	34.2	34.9	37.0		
30.0	29.3	30.0	29.3	30.7	29.3	30.0	30.0	29.3	23.7	20.2		
27.2	26.5	27.2	26.5	27.9	26.5	27.9	27.2	25.8	17.4	16.7		
21.6	19.5	21.6	19.5	20.9	18.8	20.2	17.4	13.2	12.5	12.5		
16.0	13.9	15.3	13.2	12.5	9.8	10.5	9.8	9.1	9.8	9.8		
9.8	7.0	8.4	6.3	7.7	5.6	7.0	6.3	5.6	5.6	5.6		
4.9	3.5	4.9	2.8	4.2	2.8	3.5	3.5	2.1	2.1	2.1		
0.7	0.0	1.4	0.0	1.4	0.0	0.7	0.7	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		

'228329
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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°	304.7	304.7
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	276.1	276.8
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	241.9	244.0
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	204.3	205.7
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	164.5	165.9
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	126.9	128.3
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	95.5	94.1
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	73.2	71.8
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	62.0	62.0
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	60.7	60.0
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	61.4	60.7
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	61.4	60.7
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	60.0	59.3
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	57.9	57.2
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	55.8	55.8
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	54.4	55.1
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	52.3	53.0
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	50.2	50.9
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	48.1	48.8
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	46.0	46.0
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	43.2	43.2
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	42.5	42.5
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	42.5	42.5
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	43.9	43.9
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	48.1	48.8
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	56.5	57.2
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	64.8	66.2
574.8	575.5	576.2	577.0	577.0	577.0	577.0	577.0	578.0	574.0	67.5°	65.5	67.6
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	63.4	65.5
										72.5°	43.9	43.9
										74°	19.5	18.8
										75°	16.7	16.0
										77.5°	12.5	12.5
										80°	9.1	8.4
										82.5°	4.9	4.9
										85°	1.4	1.4
										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)

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

