

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: P227938

Luminaire Tested: **ISS-AF-350-LED-E1-T4W-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29757)-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-T4W-7050-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, 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: 3812.2 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 IV - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

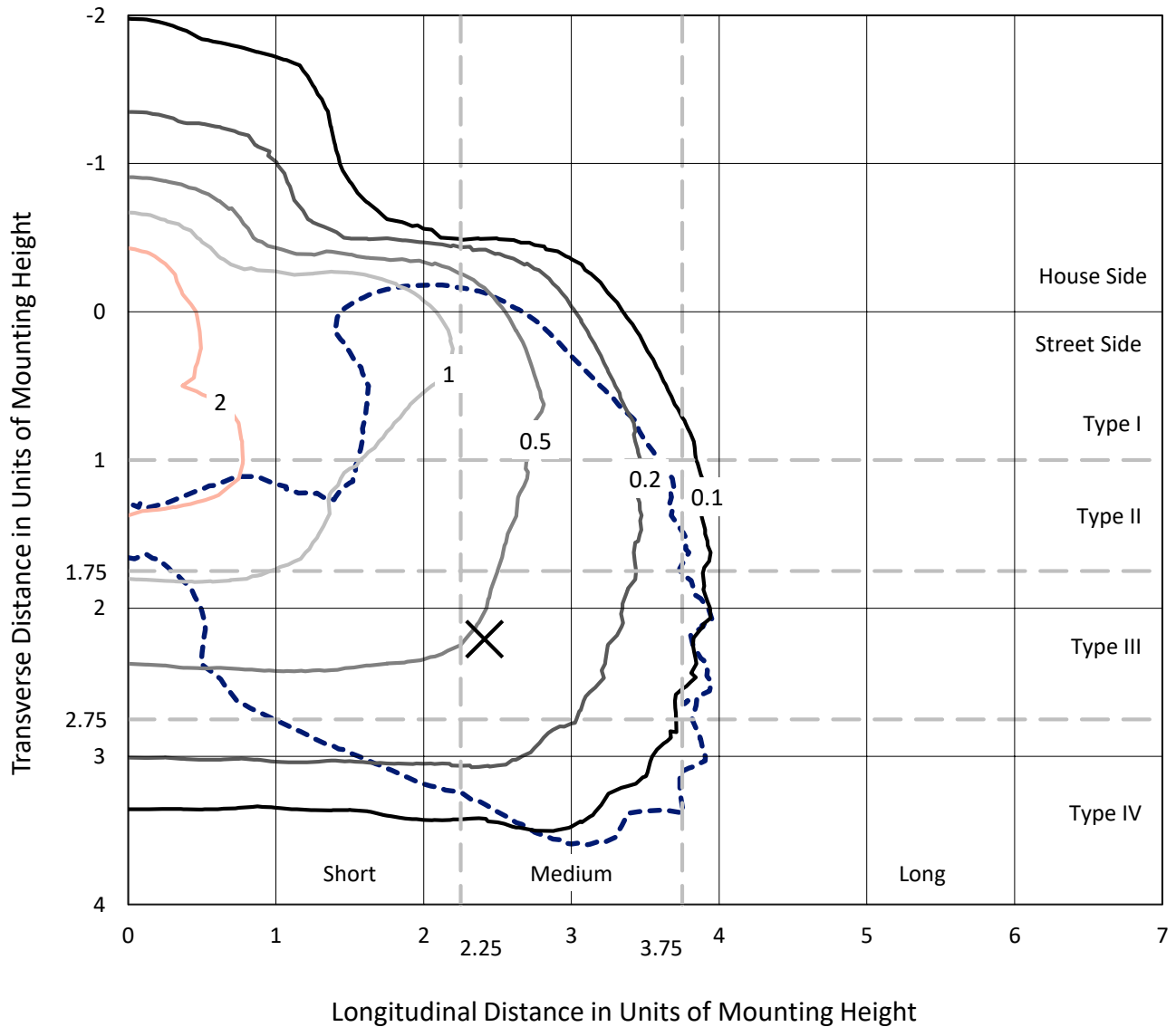
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

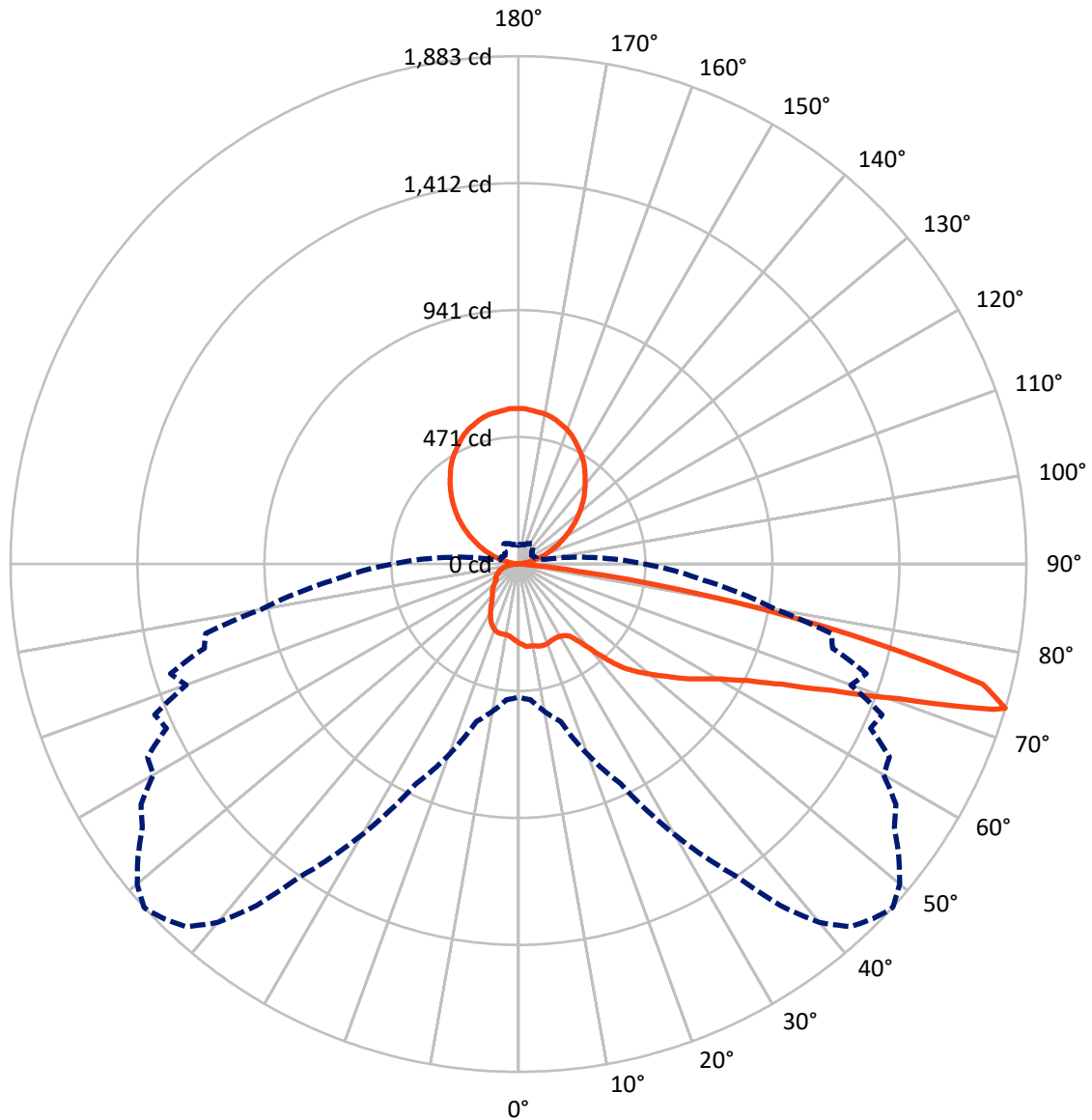
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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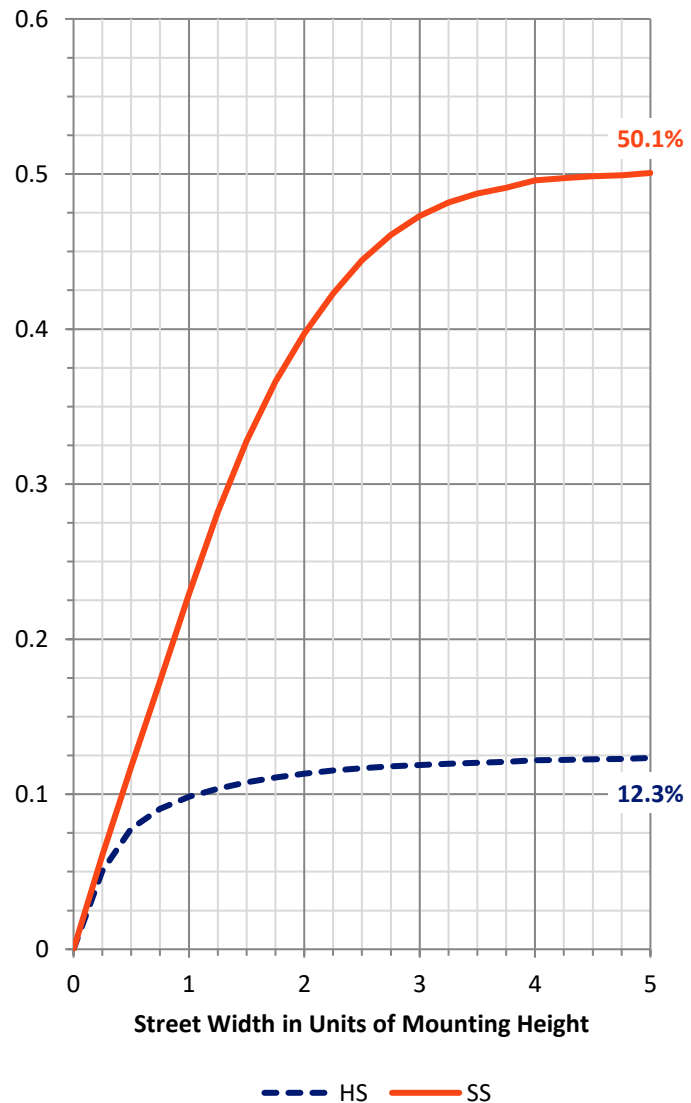
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	476.7	713.1	1189.8
	% Fixture	12.5	18.7	31.2
Street Side	Lumens	1909.3	713.1	2622.4
	% Fixture	50.1	18.7	68.8
Total	Lumens	2386.0	1426.2	3812.2
	% Fixture	62.6	37.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.9	0.7
10°-20°	83.0	2.2
20°-30°	127.6	3.3
30°-40°	186.2	4.9
40°-50°	307.0	8.1
50°-60°	480.6	12.6
60°-70°	652.0	17.1
70°-80°	482.8	12.7
80°-90°	39.0	1.0
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°	2386.0	62.6
0°-180°	3812.2	100.0



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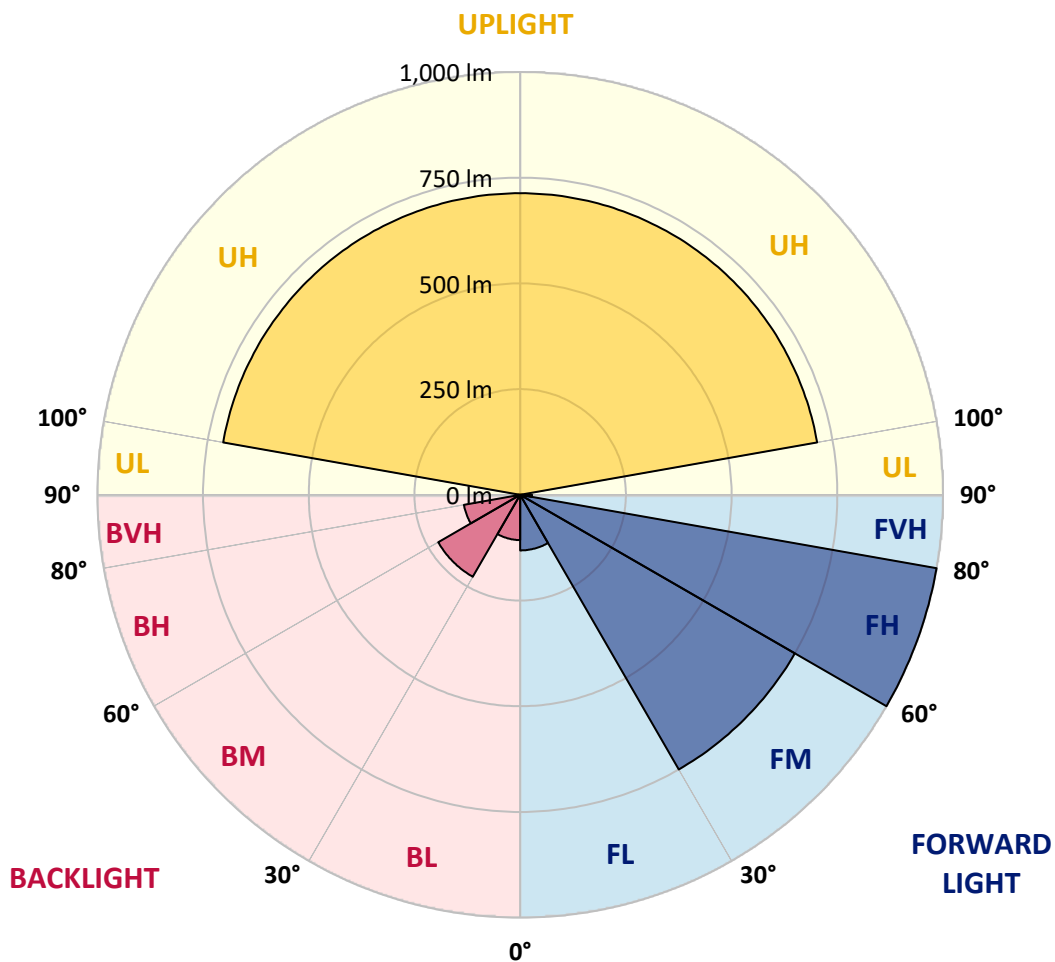
CATALOG NUMBER: ISS-AF-350-LED-E1-T4W-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	131.5	3.5			
FM (30°-60°)	749.9	19.7			
FH (60°-80°)	999.7	26.2			G1/1800
FVH (80°-90°)	28.1	0.7			G1/100
BL (0°-30°)	107.0	2.8	B0/110		
BM (30°-60°)	223.8	5.9	B1/1000		
BH (60°-80°)	135.0	3.5	B1/500		G1/500
BVH (80°-90°)	10.9	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	18.7		U4/1000	

BUG Rating: B1-U5-G1

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
0°	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0
2.5°	310.3	309.5	307.2	306.4	304.0	302.5	301.7	300.9	303.2	301.7	299.3
5°	330.0	328.4	325.3	320.6	315.8	312.7	311.9	310.3	310.3	308.8	307.2
7.5°	344.2	343.4	338.7	331.6	323.7	318.2	315.1	312.7	313.5	311.9	307.2
10°	357.6	356.0	348.1	339.5	327.7	321.4	317.4	313.5	316.6	314.3	308.0
12.5°	367.8	366.3	355.2	344.2	330.8	323.7	319.8	317.4	320.6	319.0	311.9
15°	373.3	371.8	360.7	347.3	333.2	325.3	323.7	322.1	324.5	321.4	315.1
17.5°	370.2	370.2	360.0	345.8	334.0	326.1	323.7	322.1	325.3	322.1	315.1
20°	358.4	360.0	352.9	337.9	329.2	323.7	321.4	318.2	321.4	318.2	313.5
22.5°	343.4	345.0	341.0	327.7	321.4	317.4	316.6	313.5	315.8	313.5	308.8
25°	330.0	330.0	328.4	316.6	315.8	312.7	313.5	311.9	313.5	310.3	307.2
27.5°	330.8	330.8	324.5	312.7	311.9	311.9	311.9	311.9	312.7	310.3	307.2
30°	377.3	378.9	360.7	327.7	315.8	314.3	315.1	314.3	315.1	314.3	310.3
32.5°	447.4	447.4	430.1	378.9	337.1	326.9	322.9	322.1	319.8	319.0	315.8
35°	516.7	515.9	498.6	441.9	389.1	369.4	356.8	345.0	339.5	334.0	328.4
37.5°	575.0	572.6	570.2	505.7	450.5	427.7	412.7	395.4	384.4	374.9	362.3
40°	629.3	633.3	641.9	564.7	512.0	490.7	475.7	453.7	442.7	430.8	415.9
42.5°	704.1	709.7	710.4	628.5	567.9	553.7	541.9	525.4	513.5	499.4	486.0
45°	776.6	777.4	779.8	697.1	636.4	618.3	609.6	593.9	578.9	560.8	549.8
47.5°	826.2	823.9	834.1	775.8	716.8	696.3	683.7	660.0	637.2	614.4	597.8
50°	886.9	884.5	884.5	865.6	809.7	786.1	764.0	719.9	695.5	667.1	643.5
52.5°	940.4	931.8	937.3	948.3	907.4	877.4	838.8	789.2	756.9	722.3	692.3
55°	1013.7	968.8	981.4	1020.0	1004.2	957.8	906.6	853.8	816.8	777.4	749.8
57.5°	988.5	957.8	994.8	1062.5	1061.7	1018.4	975.1	910.5	873.5	836.5	802.6
60°	897.9	913.7	994.0	1091.7	1095.6	1061.7	1026.3	966.4	937.3	898.7	864.8
62.5°	827.8	850.6	960.9	1089.3	1134.2	1102.7	1073.6	1038.1	1017.6	985.3	950.7
65°	823.9	837.3	944.4	1086.9	1188.5	1172.0	1158.6	1142.1	1138.1	1114.5	1074.3
67.5°	861.7	874.3	972.7	1147.6	1268.9	1261.8	1281.5	1278.3	1295.7	1283.8	1250.8
70°	787.6	794.7	916.0	1168.9	1452.4	1483.9	1528.0	1525.7	1562.7	1534.3	1495.7
72.5°	552.9	567.1	674.2	965.6	1456.3	1624.9	1727.3	1813.9	1854.1	1861.2	1843.1
73°	493.8	504.9	604.1	899.5	1417.0	1596.5	1734.4	1823.4	1858.8	1880.9	1882.5
75°	171.7	177.2	263.9	545.0	1132.6	1393.3	1570.5	1650.9	1642.2	1706.8	1777.7
77.5°	55.1	55.9	68.5	141.0	546.6	864.8	1062.5	1136.6	1094.0	1164.1	1258.6
80°	33.9	35.4	44.9	63.8	143.4	262.3	444.2	556.1	533.2	598.6	699.4
82.5°	20.5	21.3	27.6	39.4	57.5	63.8	83.5	113.4	139.4	167.8	219.8
85°	9.5	10.2	13.4	18.1	23.6	24.4	23.6	22.1	25.2	29.1	33.9
87.5°	0.0	0.0	0.8	1.6	0.8	0.0	0.0	0.0	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°	2.0	2.0	2.0	3.0	4.0	5.2	6.5	7.8	9.0	9.8	10.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.4	30.5
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.2
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.2
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.4	91.5



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CATALOG NUMBER: ISS-AF-350-LED-E1-T4W-7050-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.4	112.5
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.4	134.5
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.4	156.5
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.2
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.4	202.5
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.2
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.2
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.4	276.5
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.4	299.5
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.6	322.8
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.6	345.8
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.4	367.5
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.2
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.4	410.5
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.4	432.5
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.2
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.2
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.2
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	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	541.2	541.2
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.2
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	565.8
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.2
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.2
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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0
2.5°	301.7	299.3	299.3	296.2	297.7	294.6	296.2	293.0	294.6	290.6	293.0
5°	306.4	302.5	302.5	297.7	298.5	293.0	295.4	289.1	292.2	285.1	289.9
7.5°	308.8	301.7	304.8	296.2	300.1	290.6	295.4	285.1	291.4	280.4	288.3
10°	311.9	301.7	307.2	297.7	302.5	291.4	297.7	285.1	293.0	279.6	286.7
12.5°	316.6	305.6	310.3	299.3	305.6	293.0	299.3	286.7	294.6	279.6	288.3
15°	319.8	308.8	313.5	302.5	307.2	293.0	300.9	285.9	294.6	278.8	288.3
17.5°	319.0	308.8	313.5	300.9	306.4	292.2	300.1	285.1	293.0	276.5	286.7
20°	315.8	307.2	310.3	299.3	304.0	289.9	296.9	282.0	290.6	274.1	284.3
22.5°	311.9	303.2	307.2	296.9	301.7	287.5	293.8	280.4	289.1	272.5	282.0
25°	309.5	302.5	304.8	294.6	300.9	288.3	294.6	279.6	289.1	272.5	283.5
27.5°	308.8	302.5	307.2	297.7	303.2	292.2	298.5	285.1	293.0	275.7	286.7
30°	313.5	308.0	311.9	304.0	308.8	297.7	304.0	291.4	299.3	282.8	295.4
32.5°	319.0	313.5	317.4	310.3	317.4	306.4	314.3	301.7	311.1	294.6	306.4
35°	330.8	324.5	330.0	322.1	330.0	321.4	330.0	316.6	328.4	311.9	324.5
37.5°	361.5	344.2	349.7	341.0	348.9	337.9	352.9	339.5	352.9	337.1	354.4
40°	410.4	379.6	385.2	367.0	378.9	362.3	380.4	370.2	388.3	368.6	390.7
42.5°	474.2	445.0	439.5	411.9	422.2	402.5	420.6	402.5	426.9	408.0	435.6
45°	532.4	501.7	493.1	466.3	473.4	447.4	470.2	445.0	477.3	455.3	489.9
47.5°	580.5	544.3	537.2	506.5	519.1	494.6	523.0	496.2	535.6	513.5	553.7
50°	624.6	579.7	578.1	545.0	566.3	541.9	582.1	563.9	602.5	580.5	627.7
52.5°	675.0	618.3	626.2	596.2	630.1	609.6	656.1	630.1	680.5	656.9	708.9
55°	728.6	668.7	689.2	671.1	711.2	697.8	737.2	713.6	763.2	739.6	794.7
57.5°	787.6	736.4	772.7	764.0	799.5	782.9	827.0	805.8	855.4	835.7	890.8
60°	864.8	831.0	866.4	865.6	896.3	895.5	923.9	911.3	958.6	949.9	1000.3
62.5°	964.9	938.1	975.9	965.6	1002.7	996.4	1031.0	1031.0	1064.9	1076.7	1127.1
65°	1099.5	1064.1	1109.0	1093.2	1130.3	1131.8	1153.9	1157.8	1198.8	1212.2	1255.5
67.5°	1282.3	1241.3	1276.8	1246.8	1289.4	1287.0	1305.9	1313.8	1319.3	1351.6	1356.3
70°	1545.3	1483.9	1516.2	1475.2	1483.1	1488.6	1453.2	1479.2	1416.2	1467.4	1398.1
72.5°	1829.7	1759.6	1703.7	1662.7	1581.6	1569.8	1466.6	1488.6	1354.7	1398.8	1258.6
73°	1844.6	1776.9	1701.3	1658.8	1562.7	1550.1	1439.8	1458.7	1310.6	1352.4	1205.1
75°	1676.9	1695.0	1513.1	1530.4	1363.4	1383.1	1210.6	1232.7	1050.7	1082.2	892.4
77.5°	1130.3	1190.9	986.9	1063.3	856.2	932.6	698.6	705.7	515.1	481.2	326.9
80°	560.0	612.0	434.0	474.2	318.2	312.7	190.6	158.3	134.7	137.8	141.8
82.5°	161.5	181.9	112.6	111.8	79.6	75.6	75.6	80.3	81.9	91.4	89.0
85°	30.7	37.0	32.3	43.3	38.6	42.5	39.4	45.7	42.5	52.8	45.7
87.5°	0.8	0.0	0.8	2.4	2.4	5.5	3.9	6.3	6.3	11.0	10.2
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°	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0
2.5°	289.9	293.8	292.2	290.6	289.1	288.3	285.1	286.7	282.8	285.9	282.8
5°	283.5	288.3	285.9	282.8	281.2	279.6	274.1	278.0	271.7	277.2	272.5
7.5°	276.5	284.3	282.0	278.8	275.7	274.1	263.1	271.7	262.3	270.2	262.3
10°	274.1	282.8	279.6	275.7	272.5	270.9	257.6	267.8	257.6	266.2	256.0
12.5°	272.5	282.8	278.0	274.1	270.9	268.6	253.6	266.2	252.8	265.4	253.6
15°	270.9	282.8	276.5	271.7	268.6	266.2	250.5	264.6	249.7	263.9	250.5
17.5°	269.4	280.4	274.9	269.4	266.2	264.6	247.3	262.3	246.5	262.3	248.9
20°	267.0	278.0	271.7	266.2	263.1	260.7	243.4	259.1	242.6	258.3	243.4
22.5°	263.9	275.7	270.2	264.6	261.5	257.6	238.7	255.2	237.9	253.6	239.4
25°	264.6	277.2	270.2	264.6	259.9	256.0	235.5	253.6	233.9	249.7	233.9
27.5°	268.6	279.6	272.5	267.8	261.5	256.8	235.5	252.0	232.4	245.7	229.2
30°	276.5	287.5	281.2	274.1	268.6	262.3	239.4	252.8	232.4	241.0	224.5
32.5°	289.9	300.1	293.8	288.3	282.0	272.5	247.3	256.8	233.9	237.9	220.5
35°	307.2	319.8	316.6	312.7	304.8	288.3	260.7	262.3	237.1	234.7	215.0
37.5°	335.5	352.9	352.1	351.3	342.6	312.7	275.7	273.3	240.2	232.4	207.9
40°	372.6	393.0	398.5	404.1	385.9	341.8	293.0	284.3	241.8	227.6	196.9
42.5°	415.9	443.4	460.0	470.2	437.1	374.1	312.7	296.9	241.8	220.5	184.3
45°	469.4	501.7	533.2	544.3	493.8	408.8	333.2	307.2	238.7	209.5	167.8
47.5°	534.8	572.6	615.9	621.4	555.3	445.8	347.3	314.3	228.4	194.5	152.8
50°	607.3	653.0	716.8	712.8	620.7	484.4	356.8	319.0	210.3	177.2	134.7
52.5°	688.4	745.9	836.5	818.4	700.2	532.4	365.5	325.3	188.2	156.7	116.6
55°	790.0	858.5	971.9	933.4	788.4	585.2	378.1	326.1	159.1	132.3	103.2
57.5°	899.5	972.7	1117.7	1047.6	871.1	626.2	372.6	300.9	130.0	111.8	92.9
60°	1031.0	1120.0	1263.4	1153.9	940.4	640.3	334.0	248.1	111.1	100.8	88.2
62.5°	1178.3	1266.5	1383.1	1227.9	979.8	616.7	248.1	171.7	95.3	89.8	81.1
65°	1335.0	1418.5	1440.6	1234.2	953.8	512.8	153.6	112.6	82.7	80.3	74.8
67.5°	1479.2	1487.1	1386.2	1131.8	827.8	357.6	104.8	89.8	76.4	75.6	72.5
70°	1516.2	1379.9	1152.3	881.4	597.8	212.7	85.1	78.0	73.3	73.3	70.9
72.5°	1266.5	1050.7	770.3	534.0	326.1	113.4	72.5	70.9	69.3	69.3	67.7
73°	1187.8	968.0	690.0	466.3	275.7	101.6	70.9	69.3	68.5	67.7	66.9
75°	789.2	608.1	391.5	236.3	128.4	73.3	63.0	63.0	62.2	63.0	62.2
77.5°	304.0	229.2	151.2	101.6	73.3	57.5	53.6	54.3	53.6	55.1	54.3
80°	133.9	132.3	100.0	71.7	53.6	43.3	43.3	43.3	44.1	44.9	44.9
82.5°	91.4	77.2	59.1	44.1	32.3	31.5	32.3	32.3	33.1	33.9	33.1
85°	50.4	42.5	31.5	19.7	17.3	21.3	21.3	21.3	20.5	20.5	19.7
87.5°	15.8	11.8	8.7	2.4	3.9	3.9	5.5	4.7	4.7	5.5	5.5
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°
												73°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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REPORT NUMBER: P
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	110°	114.0
285.9	283.5	285.9	282.0	285.1	282.0	284.3	284.3	283.5	283.5	283.5	112.5°	136.0
276.5	272.5	276.5	274.1	276.5	273.3	275.7	276.5	277.2	279.6	278.8	115°	158.0
269.4	261.5	270.2	262.3	269.4	262.3	268.6	269.4	271.7	274.9	277.2	117.5°	181.0
266.2	256.0	266.2	256.8	265.4	257.6	265.4	266.2	268.6	272.5	276.5	120°	204.0
264.6	253.6	264.6	255.2	264.6	256.8	264.6	267.0	268.6	271.7	276.5	122.5°	228.0
263.1	252.0	264.6	254.4	264.6	256.8	265.4	267.0	269.4	272.5	276.5	125°	254.0
262.3	249.7	263.1	253.6	263.1	255.2	264.6	264.6	267.8	271.7	274.1	127.5°	277.0
259.1	247.3	259.1	249.7	259.1	252.0	259.9	259.9	263.1	264.6	268.6	130°	301.0
254.4	241.8	252.8	244.2	252.8	245.7	252.0	252.0	254.4	256.8	259.1	132.5°	325.0
247.3	235.5	245.0	237.1	243.4	237.1	241.8	241.0	242.6	244.2	245.7	135°	348.0
239.4	227.6	235.5	226.8	230.8	224.5	227.6	226.1	226.8	227.6	228.4	137.5°	369.0
230.8	219.0	222.9	215.0	215.8	209.5	211.1	208.7	207.9	207.1	205.6	140°	390.0
221.3	208.7	208.7	200.8	199.3	193.8	193.8	190.6	188.2	185.1	181.9	142.5°	412.0
209.5	198.5	193.0	186.7	183.5	178.0	177.2	173.3	167.8	162.3	159.1	145°	433.0
197.7	185.1	177.2	170.9	167.8	163.8	163.0	159.9	153.6	147.3	142.6	147.5°	452.0
181.9	169.3	160.7	158.3	156.0	152.8	153.6	149.7	143.4	136.3	132.3	150°	469.0
166.2	155.2	148.1	147.3	145.7	144.9	145.7	142.6	135.5	129.2	124.4	152.5°	486.0
152.8	141.8	134.7	133.9	133.1	136.3	137.0	136.3	128.4	122.1	115.8	155°	503.0
139.4	126.0	121.3	119.7	120.5	125.2	126.8	129.2	122.1	115.0	106.3	157.5°	517.0
123.7	111.1	109.5	107.9	108.7	112.6	116.6	121.3	115.0	104.8	92.9	160°	530.0
109.5	98.5	99.2	97.7	99.2	102.4	105.5	113.4	105.5	95.3	89.8	162.5°	540.0
98.5	89.8	91.4	89.8	91.4	95.3	97.7	104.0	104.0	101.6	96.9	165°	550.0
90.6	84.3	85.9	84.3	86.6	89.8	92.2	105.5	113.4	107.1	97.7	167.5°	558.0
85.9	80.3	81.1	79.6	81.1	85.9	90.6	106.3	118.9	106.3	99.2	170°	564.0
78.8	74.0	73.3	73.3	74.8	82.7	85.1	99.2	117.4	105.5	100.0	172.5°	567.0
74.0	70.1	69.3	68.5	70.1	75.6	78.0	92.2	113.4	100.0	90.6	175°	570.0
71.7	68.5	66.9	65.4	66.9	71.7	74.0	86.6	107.1	95.3	85.1	177.5°	574.0
69.3	66.2	65.4	63.8	64.6	67.7	70.9	79.6	101.6	89.8	79.6	180°	576.0
66.2	63.0	62.2	59.9	60.6	63.8	65.4	74.8	94.5	84.3	74.0		
65.4	62.2	61.4	59.1	59.9	62.2	63.8	73.3	92.9	83.5	73.3		
61.4	58.3	57.5	55.9	56.7	56.7	58.3	66.9	88.2	78.8	68.5		
54.3	52.0	51.2	49.6	48.8	48.0	50.4	59.1	80.3	70.9	55.1		
44.9	42.5	41.7	38.6	38.6	38.6	41.7	50.4	59.9	51.2	42.5		
33.1	31.5	31.5	29.1	28.4	27.6	29.9	34.7	47.3	40.2	33.1		
19.7	18.9	19.7	17.3	18.1	17.3	19.7	24.4	26.0	20.5	15.8		
4.7	5.5	5.5	5.5	4.7	4.7	3.9	3.2	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		

'227938
 ISS-AF-350-LED-E1-T4W-7050-ULG

REPORT NUMBER: P227938
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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°	293.0	293.0
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	282.8	282.0
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	278.8	278.8
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	277.2	277.2
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	278.0	278.0
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	278.0	279.6
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	280.4	279.6
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	278.0	278.0
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	271.7	273.3
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	263.1	263.1
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	248.9	249.7
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	230.0	231.6
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	206.4	207.9
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	179.6	181.2
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	158.3	159.1
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	144.1	144.1
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	132.3	132.3
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	121.3	120.5
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	110.3	108.7
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	99.2	98.5
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	89.8	89.8
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	91.4	91.4
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	98.5	98.5
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	99.2	98.5
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	107.9	107.1
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	112.6	115.0
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	98.5	95.3
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	93.7	89.0
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	84.3	77.2
										72.5°	74.8	70.9
										73°	72.5	69.3
										75°	64.6	63.0
										77.5°	48.8	48.0
										80°	41.0	40.2
										82.5°	27.6	26.0
										85°	11.8	11.0
										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

