

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: P227675

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227675
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-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3898.6 lumens
Efficiency: N/A
Efficacy: 106.0 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

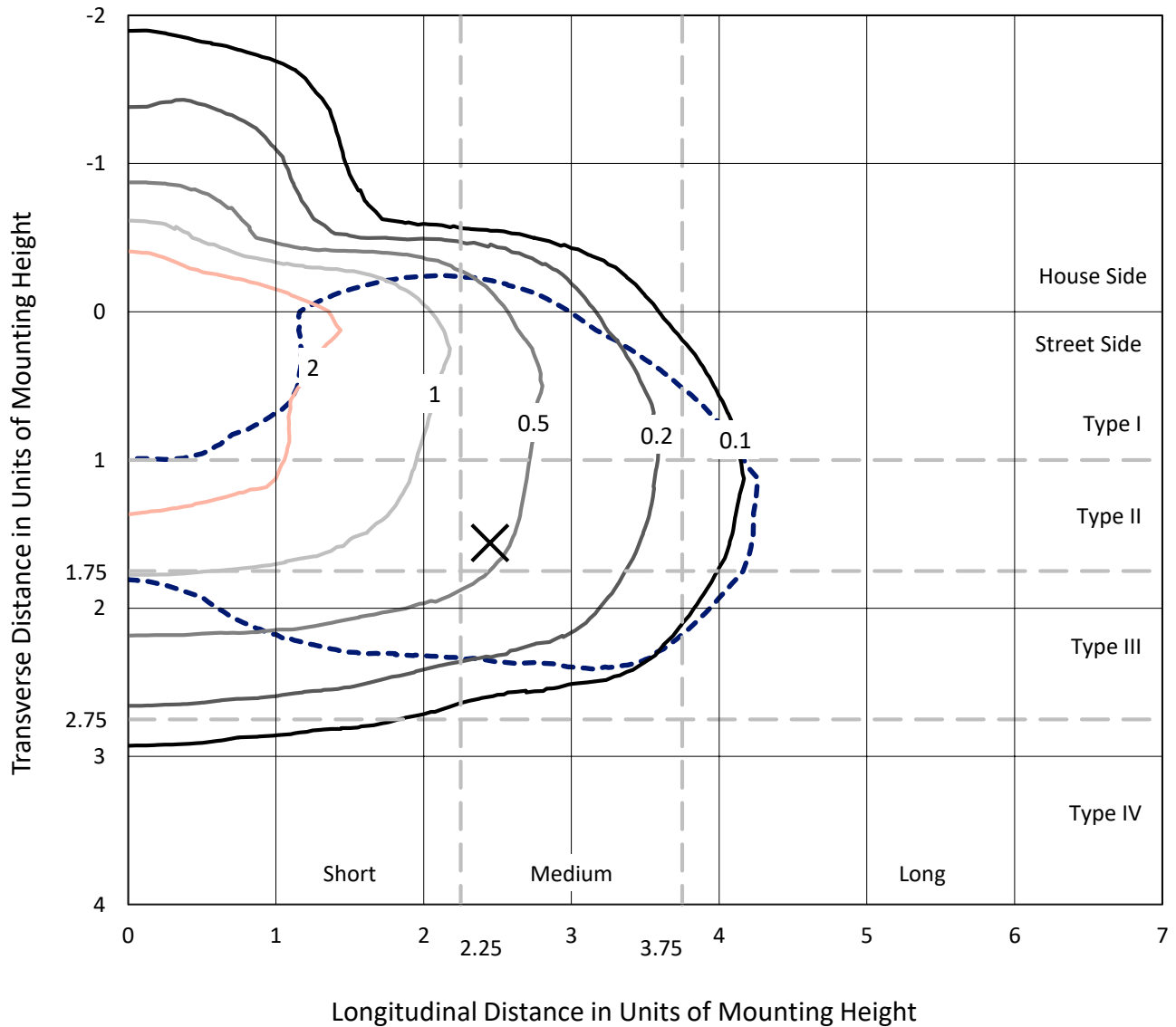
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

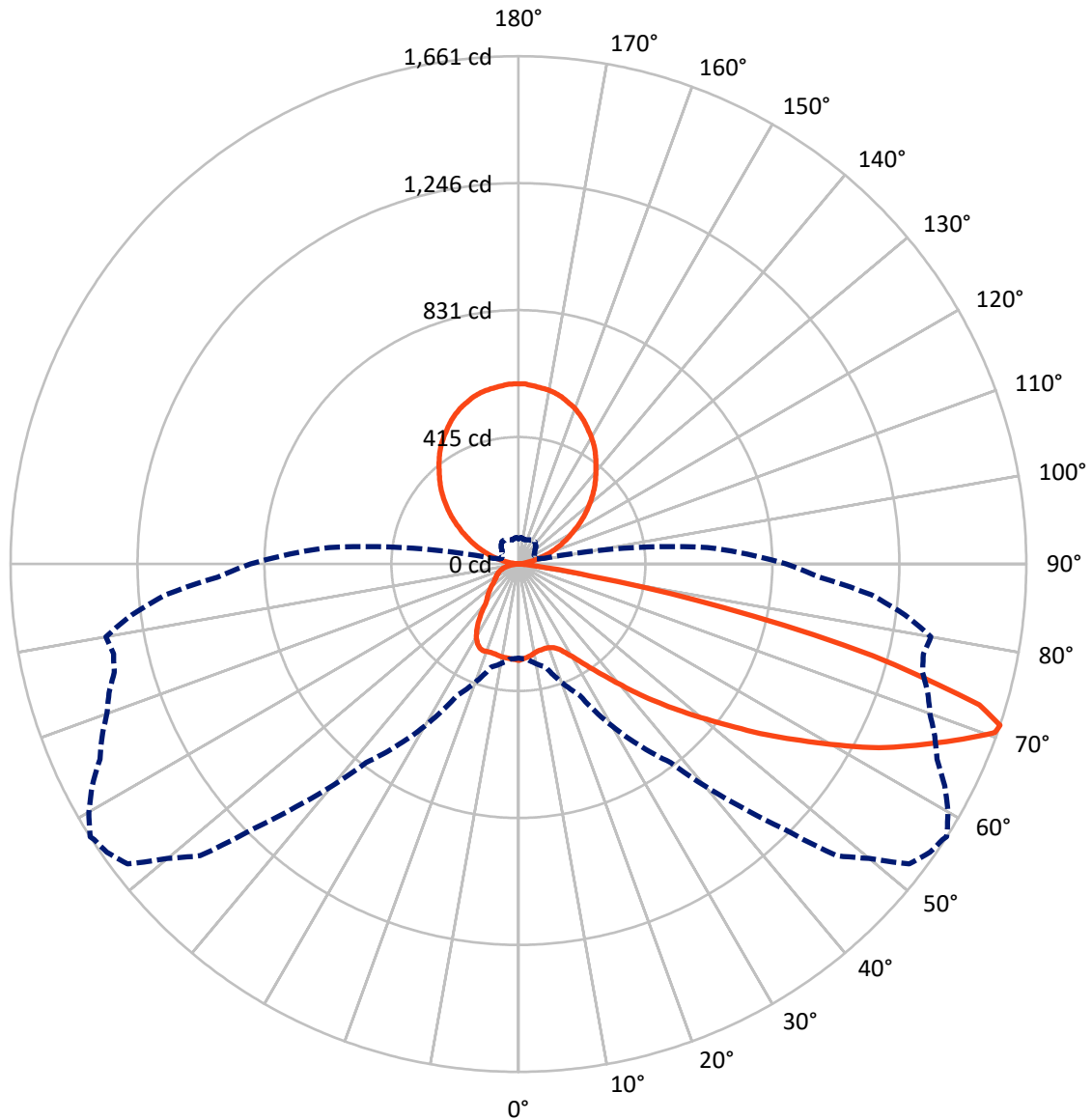
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 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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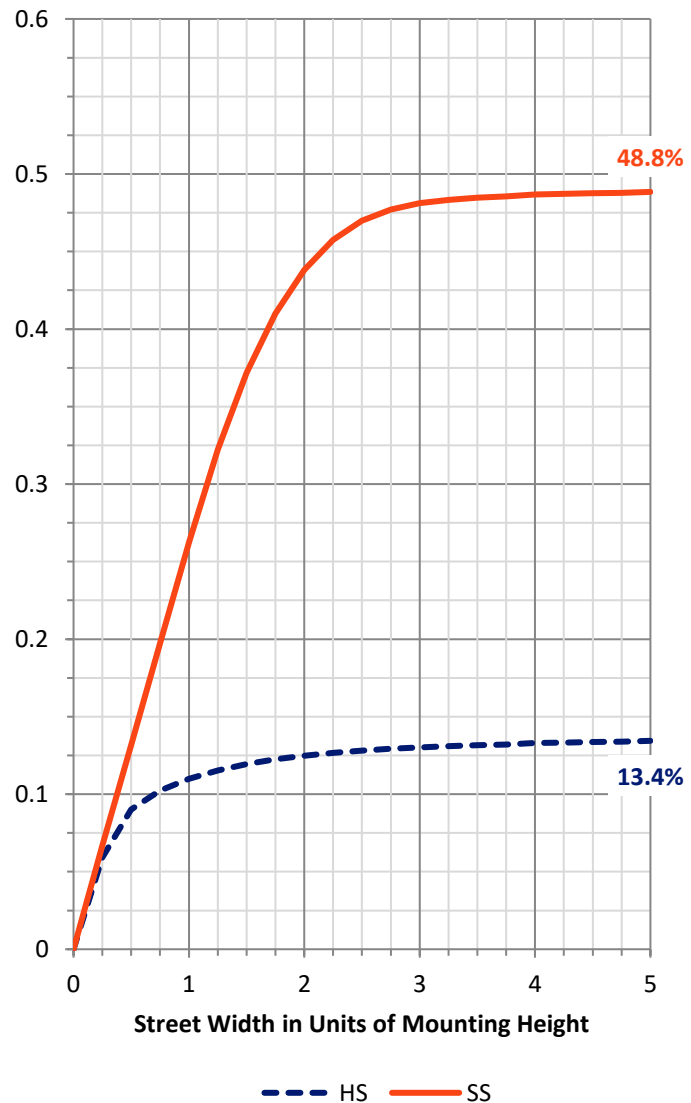
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	531.2	729.4	1260.6
	% Fixture	13.6	18.7	32.3
Street Side	Lumens	1908.6	729.4	2638.0
	% Fixture	49.0	18.7	67.7
Total	Lumens	2439.8	1458.9	3898.6
	% Fixture	62.6	37.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	0.8
10°-20°	85.5	2.2
20°-30°	141.9	3.6
30°-40°	225.9	5.8
40°-50°	367.0	9.4
50°-60°	550.2	14.1
60°-70°	656.4	16.8
70°-80°	354.5	9.1
80°-90°	28.9	0.7
90°-100°	4.8	0.1
100°-110°	70.6	1.8
110°-120°	156.6	4.0
120°-130°	229.0	5.9
130°-140°	271.7	7.0
140°-150°	275.5	7.1
150°-160°	236.4	6.1
160°-170°	158.7	4.1
170°-180°	55.6	1.4
0°-90°	2439.8	62.6
0°-180°	3898.6	100.0



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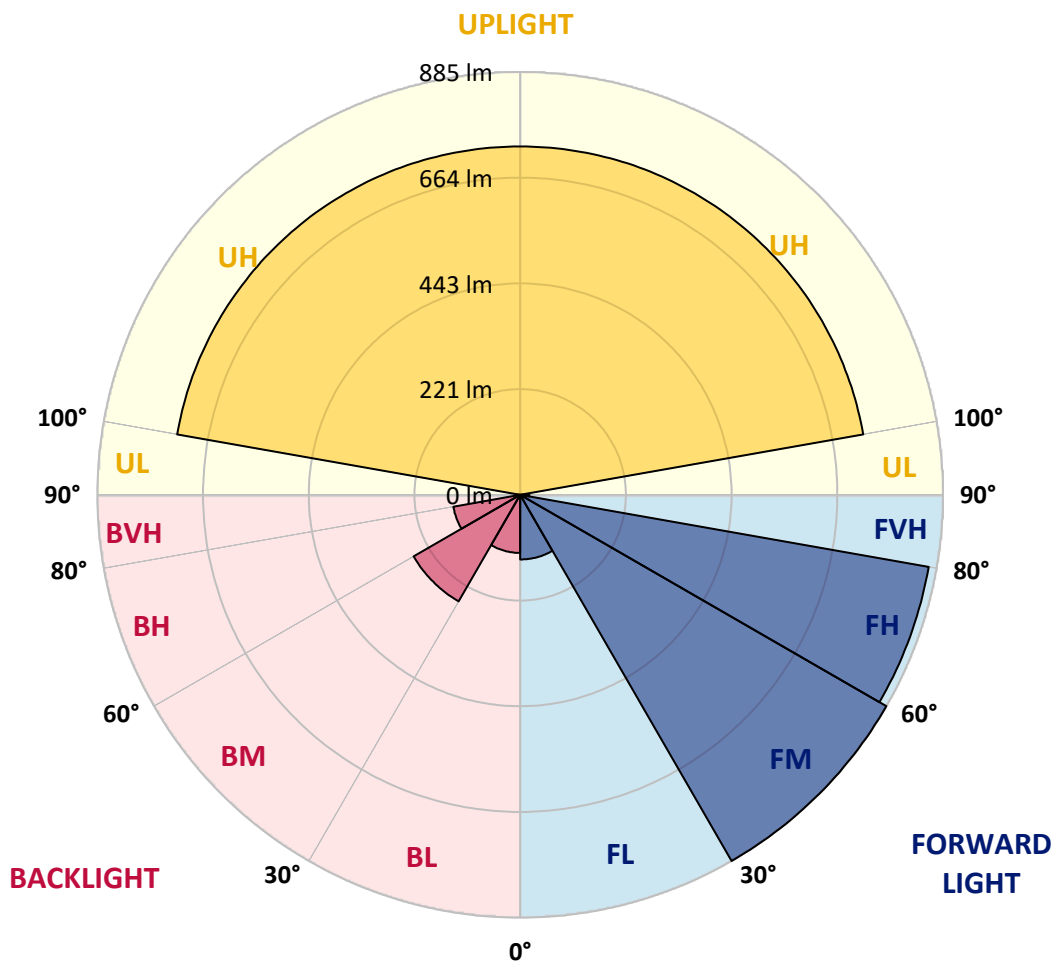
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	135.4	3.5			
FM	(30°-60°)	885.5	22.7			
FH	(60°-80°)	868.8	22.3			G1/1800
FVH	(80°-90°)	19.0	0.5			G1/100
BL	(0°-30°)	121.7	3.1	B1/500		
BM	(30°-60°)	257.6	6.6	B1/1000		
BH	(60°-80°)	142.1	3.6	B1/500		G1/500
BVH	(80°-90°)	9.9	0.3			G0/10
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	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°	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2
2.5°	315.2	314.4	313.5	313.5	313.5	312.7	310.4	311.2	313.5	312.0	314.4
5°	314.4	312.7	312.0	312.0	312.0	309.5	308.7	307.9	312.7	308.7	312.0
7.5°	305.5	305.5	303.9	305.5	307.1	304.7	303.1	303.9	307.9	303.9	307.9
10°	299.0	297.5	296.7	296.7	298.3	295.0	293.4	295.0	299.8	295.0	300.6
12.5°	296.7	297.5	295.0	295.0	294.2	290.2	290.2	290.2	294.2	290.2	295.0
15°	300.6	299.8	297.5	295.8	293.4	290.2	289.4	290.2	293.4	288.6	294.2
17.5°	306.3	306.3	302.3	298.3	295.8	292.6	292.6	291.0	293.4	290.2	294.2
20°	320.8	318.4	312.7	306.3	299.8	298.3	295.0	295.0	296.7	293.4	295.8
22.5°	345.8	343.4	333.7	321.6	311.2	307.1	305.5	304.7	303.1	301.5	301.5
25°	378.9	374.8	363.6	349.0	331.3	328.1	324.9	322.4	316.8	316.8	312.7
27.5°	414.3	410.3	398.2	382.1	360.3	355.5	351.5	348.2	338.6	338.6	331.3
30°	454.6	449.8	435.3	417.6	392.6	391.0	385.3	380.4	367.5	366.7	357.1
32.5°	501.3	494.9	480.4	457.1	430.5	431.3	422.4	419.2	402.2	403.0	390.2
35°	554.5	547.3	532.9	502.2	474.8	477.2	469.1	463.5	442.5	442.5	428.8
37.5°	611.0	611.0	592.5	557.0	524.0	529.6	520.0	514.2	493.4	496.5	474.8
40°	673.9	677.9	657.8	617.5	583.6	586.0	578.8	572.3	547.3	553.0	529.6
42.5°	740.0	747.3	729.5	687.6	649.7	657.8	645.7	639.2	612.6	624.7	597.3
45°	836.0	837.5	804.4	764.1	732.7	740.0	723.0	720.7	687.6	700.5	673.1
47.5°	896.4	892.3	868.2	843.9	825.4	839.9	824.6	820.6	782.7	791.6	752.9
50°	937.4	939.9	921.4	918.9	922.2	949.6	947.2	939.1	894.0	887.5	839.1
52.5°	974.6	964.0	960.9	983.5	1018.0	1050.4	1063.3	1052.7	1003.6	985.8	939.1
55°	968.1	952.8	969.8	1024.5	1093.0	1143.0	1144.7	1137.4	1093.0	1085.8	1035.0
57.5°	924.5	927.8	962.5	1040.6	1156.8	1208.3	1217.2	1208.3	1172.0	1178.4	1136.6
60°	864.1	870.5	925.4	1026.1	1207.5	1251.9	1255.9	1266.3	1242.2	1259.0	1230.1
62.5°	773.9	782.7	852.8	989.9	1172.0	1238.2	1275.2	1299.4	1294.5	1333.2	1318.0
65°	711.0	711.0	779.5	948.0	1137.4	1224.5	1280.0	1325.2	1331.7	1393.0	1387.2
67.5°	594.1	598.1	656.9	831.0	1095.5	1193.8	1277.7	1354.2	1393.0	1489.6	1494.4
70°	411.1	414.3	453.1	593.3	885.1	968.9	1092.2	1217.2	1333.2	1479.2	1554.9
71°	307.9	312.0	349.8	473.2	749.6	819.0	947.2	1077.0	1222.8	1412.3	1497.7
72.5°	150.8	153.1	190.3	303.9	521.5	610.2	684.4	808.5	963.3	1180.1	1301.0
75°	70.2	70.9	79.0	109.7	199.1	237.0	270.1	349.8	445.8	636.0	782.7
77.5°	51.6	51.6	56.5	71.7	103.2	104.8	103.2	105.6	127.4	182.2	274.0
80°	37.8	37.8	41.1	48.4	68.5	68.5	66.1	66.9	64.4	66.9	75.8
82.5°	25.0	25.0	26.6	29.1	41.9	41.9	40.3	40.3	38.7	37.8	41.1
85°	14.5	15.3	16.2	13.7	17.7	16.9	15.3	16.9	16.2	14.5	17.7
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	3.1	4.1	5.3	6.6	8.0	9.2	10.2	11.3
100°	8.2	8.2	10.2	14.3	22.5	24.6	26.6	28.6	30.7	31.2	31.7
102.5°	28.6	28.6	32.7	38.9	46.0	47.3	48.6	49.9	51.1	51.4	51.7
105°	55.2	55.2	57.3	62.4	67.5	68.5	69.6	70.6	71.6	71.8	72.1
107.5°	79.8	78.8	81.8	85.9	90.0	90.8	91.6	92.3	93.1	93.6	94.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	103.3	104.3	105.4	108.4	112.5	113.0	113.5	114.1	114.6	115.1	115.6
112.5°	126.8	126.8	128.9	132.0	135.0	135.5	136.1	136.6	137.1	137.6	138.1
115°	149.4	150.4	152.4	154.5	157.5	158.0	158.6	159.1	159.6	160.1	160.6
117.5°	172.9	173.9	175.9	178.0	181.1	181.6	182.1	182.6	183.1	183.3	183.6
120°	197.4	199.5	200.5	202.5	205.6	205.8	206.1	206.4	206.6	207.1	207.7
122.5°	224.0	225.0	226.1	228.1	231.2	231.4	231.7	232.0	232.2	232.4	232.7
125°	249.6	251.6	252.7	253.7	256.8	257.0	257.3	257.6	257.8	258.0	258.3
127.5°	273.1	275.2	276.2	278.2	280.3	280.8	281.3	281.8	282.3	282.8	283.4
130°	296.7	298.7	299.7	300.7	304.8	305.0	305.4	305.7	305.9	306.4	306.9
132.5°	320.2	321.2	324.3	325.3	328.4	328.6	328.9	329.2	329.4	330.2	330.9
135°	343.7	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	353.7	354.5
137.5°	367.2	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.9	376.4
140°	390.8	391.8	393.8	394.9	396.9	397.1	397.4	397.7	397.9	398.1	398.4
142.5°	413.3	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.9	420.4
145°	434.8	435.8	437.8	437.8	440.9	441.1	441.4	441.7	441.9	442.4	442.9
147.5°	454.2	454.2	457.3	458.3	462.4	462.6	462.9	463.2	463.4	463.6	463.9
150°	471.6	472.6	474.6	475.7	479.8	480.0	480.3	480.6	480.8	481.0	481.3
152.5°	490.0	491.0	494.1	493.1	496.1	496.3	496.6	496.9	497.2	497.4	497.7
155°	510.5	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.7	515.1
157.5°	524.8	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.9	530.9
160°	537.0	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	544.2	544.2
162.5°	547.3	548.3	551.4	550.3	553.4	553.4	553.4	553.4	553.4	553.6	553.9
165°	558.5	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.9	565.2
167.5°	567.7	568.8	571.8	570.8	573.9	573.7	573.4	573.1	572.9	572.9	572.9
170°	574.9	575.9	579.0	578.0	580.0	579.8	579.5	579.2	579.0	578.8	578.5
172.5°	578.0	579.0	582.1	580.0	582.1	581.9	581.5	581.2	581.0	581.2	581.5
175°	580.0	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.3	585.6
177.5°	585.1	586.2	588.2	587.2	591.3	591.1	590.8	590.4	590.2	590.2	590.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2
2.5°	311.2	313.5	313.5	310.4	312.7	310.4	312.0	309.5	312.0	307.9	312.7
5°	308.7	311.2	311.2	306.3	311.2	306.3	310.4	304.7	310.4	303.9	310.4
7.5°	302.3	307.9	307.9	301.5	307.1	302.3	307.1	301.5	306.3	299.0	307.1
10°	295.0	300.6	301.5	295.0	301.5	295.8	303.1	295.8	303.1	295.0	303.9
12.5°	290.2	296.7	298.3	291.0	299.0	291.8	300.6	292.6	300.6	291.8	302.3
15°	289.4	295.0	296.7	290.2	297.5	289.4	299.8	290.2	300.6	291.0	303.1
17.5°	290.2	295.0	296.7	289.4	296.7	290.2	299.0	291.0	300.6	291.8	303.1
20°	292.6	295.8	295.8	291.8	297.5	291.8	299.0	291.0	301.5	293.4	303.9
22.5°	299.8	300.6	300.6	297.5	300.6	296.7	302.3	296.7	303.9	297.5	307.1
25°	312.0	311.2	309.5	308.7	309.5	307.1	310.4	306.3	313.5	307.9	317.6
27.5°	332.9	329.7	328.1	328.1	327.2	328.1	328.1	326.4	329.7	328.1	334.5
30°	358.7	353.0	350.7	353.0	349.8	353.0	352.3	351.5	354.7	353.0	358.7
32.5°	392.6	382.9	381.3	386.1	379.6	385.3	380.4	382.9	385.3	386.9	390.2
35°	432.1	420.7	419.2	424.0	416.8	424.8	419.2	422.4	424.0	428.0	430.5
37.5°	478.8	465.1	462.7	469.1	459.5	468.3	460.2	469.9	467.5	473.2	475.6
40°	535.2	519.1	513.5	522.3	511.1	518.3	510.2	520.7	518.3	529.6	532.0
42.5°	604.6	581.1	575.5	584.4	567.4	569.9	563.4	575.5	574.0	589.2	591.7
45°	676.3	648.0	640.1	648.9	629.5	634.4	624.7	637.6	636.8	648.9	658.6
47.5°	756.1	721.5	711.0	720.7	697.2	702.9	693.3	707.0	707.8	721.5	731.1
50°	839.1	802.8	789.1	798.0	776.2	780.3	770.6	787.6	786.8	805.3	812.5
52.5°	929.5	892.3	881.9	885.9	860.1	864.9	856.8	877.8	873.0	884.2	898.8
55°	1029.4	986.6	974.6	986.6	956.0	962.5	952.0	971.3	963.3	977.7	981.8
57.5°	1131.7	1089.9	1080.1	1089.0	1060.0	1064.8	1051.1	1067.2	1060.8	1070.5	1077.0
60°	1240.5	1202.7	1193.0	1202.7	1174.4	1175.3	1151.8	1168.8	1159.1	1171.3	1168.8
62.5°	1344.6	1312.3	1309.9	1323.6	1288.1	1284.1	1255.9	1267.9	1254.2	1262.3	1252.6
65°	1433.3	1414.6	1417.9	1429.2	1397.8	1388.0	1355.8	1362.3	1342.1	1342.1	1330.0
67.5°	1549.3	1529.1	1529.1	1538.8	1499.3	1474.3	1430.0	1424.4	1391.3	1384.9	1356.6
70°	1646.0	1651.7	1645.2	1653.3	1606.5	1555.7	1496.9	1468.7	1425.2	1404.2	1371.2
71°	1611.4	1643.6	1654.9	1661.4	1622.6	1571.9	1510.6	1474.3	1432.4	1404.2	1368.7
72.5°	1454.1	1532.4	1576.7	1576.7	1581.5	1549.3	1490.4	1451.0	1403.4	1366.4	1333.2
75°	1018.9	1146.2	1203.5	1197.1	1238.9	1253.4	1258.3	1241.4	1214.8	1161.6	1138.1
77.5°	453.8	598.1	684.4	685.2	730.3	769.8	801.3	834.3	822.2	796.4	794.8
80°	103.2	187.0	239.4	241.8	282.9	319.2	340.9	374.0	378.1	340.9	320.0
82.5°	44.3	52.4	59.6	58.8	72.5	87.1	103.2	112.0	108.0	89.5	84.6
85°	18.5	24.1	25.8	24.1	29.9	33.0	38.7	39.5	45.9	41.1	43.6
87.5°	0.0	0.8	0.8	0.0	1.6	0.0	1.6	0.8	4.0	1.6	4.8
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°	12.3	13.3	12.1	11.8	10.2	8.7	7.2	6.6	6.1	5.6	5.1
100°	32.2	32.7	32.3	32.2	31.7	31.2	30.7	29.9	29.2	28.4	27.6
102.5°	52.0	52.2	52.0	52.0	51.7	51.4	51.1	50.6	50.1	49.6	49.1
105°	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.1	71.6	71.1	70.6
107.5°	94.6	95.1	94.9	94.9	94.6	94.3	94.1	93.9	93.6	93.3	93.1



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	116.1	116.6	116.6	116.6	116.6	116.6	116.6	116.4	116.1	115.8	115.6
112.5°	138.6	139.1	139.1	139.1	139.1	139.1	139.1	138.9	138.6	138.3	138.1
115°	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
117.5°	183.9	184.1	184.3	184.3	184.6	184.9	185.2	184.9	184.6	184.3	184.1
120°	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
122.5°	233.0	233.2	233.2	233.2	233.2	233.2	233.2	233.4	233.7	234.1	234.3
125°	258.6	258.8	259.0	259.0	259.3	259.6	259.8	259.8	259.8	259.8	259.8
127.5°	283.9	284.4	284.2	284.2	283.9	283.6	283.4	283.6	283.9	284.2	284.4
130°	307.4	307.9	307.9	307.9	307.9	307.9	307.9	308.1	308.4	308.7	308.9
132.5°	331.6	332.5	332.5	332.5	332.5	332.5	332.5	332.7	333.0	333.3	333.5
135°	355.2	356.0	356.0	356.0	356.0	356.0	356.0	356.2	356.5	356.8	357.0
137.5°	377.0	377.5	377.5	377.5	377.5	377.5	377.5	377.7	378.0	378.3	378.5
140°	398.7	399.0	399.0	399.0	399.0	399.0	399.0	399.5	400.0	400.5	401.0
142.5°	420.9	421.5	421.5	421.5	421.5	421.5	421.5	421.7	422.0	422.3	422.5
145°	443.4	444.0	443.8	443.8	443.4	443.1	442.9	443.1	443.4	443.8	444.0
147.5°	464.2	464.4	464.0	463.9	463.4	462.9	462.4	462.6	462.9	463.2	463.4
150°	481.6	481.8	481.4	481.3	480.8	480.3	479.8	479.8	479.8	479.8	479.8
152.5°	498.0	498.2	498.0	498.0	497.7	497.4	497.2	497.2	497.2	497.2	497.2
155°	515.4	515.6	515.4	515.4	515.1	514.7	514.5	514.7	515.1	515.4	515.6
157.5°	530.9	530.9	530.5	530.4	529.9	529.4	528.9	529.1	529.4	529.7	529.9
160°	544.2	544.2	543.8	543.7	543.2	542.7	542.2	542.2	542.2	542.2	542.2
162.5°	554.2	554.4	554.0	553.9	553.4	552.9	552.4	551.9	551.4	550.9	550.3
165°	565.5	565.7	565.1	564.9	564.2	563.4	562.6	562.1	561.6	561.1	560.6
167.5°	572.9	572.9	572.4	572.3	571.8	571.3	570.8	571.0	571.3	571.6	571.8
170°	578.2	578.0	577.8	577.8	577.5	577.1	576.9	577.5	578.0	578.5	579.0
172.5°	581.9	582.1	581.6	581.5	581.0	580.5	580.0	580.2	580.5	580.8	581.0
175°	585.9	586.2	585.5	585.3	584.6	583.9	583.1	582.6	582.1	581.5	581.0
177.5°	590.2	590.2	589.6	589.4	588.7	588.0	587.2	587.2	587.2	587.2	587.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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

CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2
2.5°	309.5	313.5	309.5	313.5	311.2	313.5	312.7	313.5	309.5	313.5	308.7
5°	303.9	310.4	304.7	309.5	304.7	310.4	310.4	310.4	304.7	311.2	305.5
7.5°	299.0	306.3	299.0	306.3	301.5	307.1	307.1	309.5	303.1	310.4	302.3
10°	294.2	303.1	294.2	304.7	296.7	305.5	306.3	307.9	299.0	308.7	300.6
12.5°	291.8	303.1	292.6	303.1	293.4	305.5	306.3	307.9	298.3	310.4	299.8
15°	291.8	303.9	292.6	303.9	293.4	305.5	307.1	308.7	298.3	311.2	299.8
17.5°	291.8	303.9	294.2	304.7	295.0	306.3	307.9	309.5	299.8	311.2	301.5
20°	294.2	305.5	295.8	307.1	297.5	308.7	309.5	312.0	301.5	312.0	303.1
22.5°	299.8	309.5	301.5	312.0	304.7	313.5	314.4	316.8	308.7	317.6	310.4
25°	309.5	320.0	313.5	321.6	317.6	324.9	326.4	326.4	323.3	328.9	326.4
27.5°	329.7	337.8	332.9	340.1	337.8	343.4	343.4	344.2	346.6	348.2	350.7
30°	355.5	361.1	359.5	363.6	364.4	367.5	367.5	372.5	382.1	372.5	371.6
32.5°	390.2	393.3	394.1	395.8	399.1	401.4	404.7	410.3	418.4	395.8	388.5
35°	432.9	433.6	436.1	438.5	444.2	445.8	456.2	452.2	452.2	416.8	401.4
37.5°	479.7	479.7	486.1	486.1	499.8	500.5	511.1	490.1	478.0	432.1	409.5
40°	538.5	537.7	544.9	546.6	565.1	565.9	564.3	518.3	492.6	436.1	405.5
42.5°	600.6	602.9	612.6	615.8	629.5	634.4	614.3	537.7	499.0	433.6	391.8
45°	668.2	673.1	685.2	694.1	708.5	702.9	654.6	546.6	491.7	419.2	365.2
47.5°	742.4	747.3	756.9	773.9	780.3	773.9	687.6	549.7	480.4	396.6	326.4
50°	817.3	825.4	839.1	863.3	866.5	850.4	727.9	561.8	471.6	373.2	282.1
52.5°	902.0	910.0	926.2	966.5	958.4	925.4	775.5	584.4	473.9	358.7	244.3
55°	991.4	1002.8	1034.2	1073.7	1056.0	1004.3	827.9	617.5	483.7	343.4	202.3
57.5°	1085.8	1097.8	1139.0	1185.7	1151.1	1081.8	881.1	643.2	488.5	312.0	156.4
60°	1179.3	1196.2	1249.4	1288.1	1234.1	1147.9	928.6	660.2	475.6	252.3	120.9
62.5°	1264.8	1292.2	1351.8	1372.8	1286.5	1189.8	954.4	648.0	423.2	174.1	97.5
65°	1325.2	1360.6	1399.4	1396.9	1276.8	1176.1	935.1	592.5	315.2	115.3	83.1
67.5°	1351.0	1384.1	1393.0	1351.8	1207.5	1115.6	865.7	477.2	181.4	86.2	72.5
70°	1360.6	1388.9	1338.9	1239.7	1072.1	967.3	707.8	303.9	99.1	70.2	62.9
71°	1356.6	1370.3	1275.2	1159.1	985.8	876.3	620.7	231.4	84.6	65.3	59.6
72.5°	1301.8	1282.5	1135.8	1006.8	836.0	724.7	482.8	145.9	69.4	58.8	55.6
75°	1064.1	976.9	836.0	714.2	569.1	455.4	262.0	75.0	55.6	50.7	48.4
77.5°	695.6	619.9	503.8	409.5	311.2	236.2	107.2	51.6	44.3	42.8	41.9
80°	248.3	199.1	150.8	132.2	99.9	82.2	52.4	39.5	34.7	35.5	34.7
82.5°	70.2	64.4	55.6	51.6	45.1	44.3	33.9	29.9	27.4	29.1	28.2
85°	34.7	29.9	21.8	21.0	16.2	18.5	16.9	20.2	17.7	18.5	16.9
87.5°	2.5	3.3	0.8	2.5	0.0	2.5	3.3	4.0	0.8	3.3	2.5
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°	4.9	4.6	4.3	4.1	4.1	4.1	4.1	4.6	4.9	5.1	5.6
100°	27.4	27.1	26.8	26.6	26.1	25.6	26.6	27.1	27.4	27.6	28.4
102.5°	49.3	49.6	49.9	50.1	49.6	49.1	50.1	49.6	49.3	49.1	49.6
105°	71.1	71.6	72.1	72.6	71.6	70.6	72.6	71.6	71.1	70.6	71.1
107.5°	93.3	93.6	93.9	94.1	93.6	93.1	94.1	93.6	93.3	93.1	93.3



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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°	115.8	116.1	116.4	116.6	116.1	115.6	116.6	116.1	115.8	115.6	115.8	0°
112.5°	138.6	139.1	139.6	140.1	139.1	138.1	140.1	139.1	138.6	138.1	138.3	2.5°
115°	162.1	162.6	163.2	163.7	163.2	162.6	163.7	162.6	162.1	161.6	161.6	5°
117.5°	184.6	185.2	185.7	186.2	185.2	184.1	186.2	185.2	184.6	184.1	184.3	7.5°
120°	209.2	209.7	210.2	210.7	209.7	208.7	210.7	209.7	209.2	208.7	208.7	10°
122.5°	235.3	236.3	237.3	238.3	237.8	237.3	238.3	236.3	235.3	234.3	234.1	12.5°
125°	260.6	261.4	262.1	262.9	262.4	261.9	262.9	261.4	260.6	259.8	259.8	15°
127.5°	285.2	285.9	286.6	287.4	285.9	284.4	287.4	285.9	285.2	284.4	284.2	17.5°
130°	309.7	310.5	311.2	312.0	311.0	310.0	312.0	310.5	309.7	308.9	308.7	20°
132.5°	334.3	335.0	335.7	336.6	335.5	334.5	336.6	335.0	334.3	333.5	333.3	22.5°
135°	357.5	358.0	358.5	359.1	358.5	358.0	359.1	358.0	357.5	357.0	356.8	25°
137.5°	379.5	380.5	381.6	382.6	381.6	380.5	382.6	380.5	379.5	378.5	378.3	27.5°
140°	402.0	403.0	404.1	405.1	404.1	403.0	405.1	403.0	402.0	401.0	400.5	30°
142.5°	423.3	424.0	424.7	425.5	425.0	424.5	425.5	424.0	423.3	422.5	422.3	32.5°
145°	444.8	445.5	446.2	447.0	446.0	445.0	447.0	445.5	444.8	444.0	443.8	35°
147.5°	464.2	464.9	465.6	466.5	464.9	463.4	466.5	464.9	464.2	463.4	463.2	37.5°
150°	480.8	481.8	482.8	483.9	482.3	480.8	483.9	481.8	480.8	479.8	479.8	40°
152.5°	498.0	498.7	499.4	500.2	498.7	497.2	500.2	498.7	498.0	497.2	497.2	42.5°
155°	516.4	517.1	517.8	518.6	517.6	516.6	518.6	517.1	516.4	515.6	515.4	45°
157.5°	531.1	532.4	533.8	535.0	533.5	531.9	535.0	532.4	531.1	529.9	529.7	47.5°
160°	543.0	543.7	544.4	545.2	544.2	543.2	545.2	543.7	543.0	542.2	542.2	50°
162.5°	550.9	551.4	551.9	552.4	550.9	549.3	552.4	551.4	550.9	550.3	550.9	52.5°
165°	561.1	561.6	562.1	562.6	561.6	560.6	562.6	561.6	561.1	560.6	561.1	55°
167.5°	572.9	573.9	574.9	575.9	574.9	573.9	575.9	573.9	572.9	571.8	571.6	57.5°
170°	580.2	581.5	582.9	584.1	583.1	582.1	584.1	581.5	580.2	579.0	578.5	60°
172.5°	581.9	582.6	583.3	584.1	582.6	581.0	584.1	582.6	581.9	581.0	580.8	62.5°
175°	581.9	582.6	583.3	584.1	582.6	581.0	584.1	582.6	581.9	581.0	581.5	65°
177.5°	588.0	588.7	589.4	590.2	588.7	587.2	590.2	588.7	588.0	587.2	587.2	67.5°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	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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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	110°
315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	110°	116.1
314.4	311.2	315.2	311.2	315.2	312.7	315.2	312.7	315.2	316.8	316.8	112.5°	138.6
312.7	307.1	314.4	310.4	315.2	311.2	314.4	312.0	316.0	317.6	319.2	115°	161.6
312.0	306.3	313.5	307.9	315.2	309.5	314.4	311.2	316.0	317.6	320.8	117.5°	184.6
311.2	303.9	313.5	305.5	314.4	308.7	314.4	309.5	315.2	316.8	317.6	120°	208.7
311.2	303.1	313.5	304.7	314.4	306.3	313.5	306.3	314.4	313.5	311.2	122.5°	233.7
312.0	301.5	313.5	303.1	313.5	303.9	312.7	303.1	311.2	308.7	307.1	125°	259.8
312.0	301.5	312.7	302.3	312.0	303.1	310.4	301.5	308.7	307.9	305.5	127.5°	283.9
313.5	303.1	312.7	305.5	312.7	303.9	309.5	301.5	307.1	302.3	292.6	130°	308.4
318.4	311.2	318.4	311.2	314.4	306.3	308.7	299.0	298.3	290.2	274.9	132.5°	333.0
329.7	326.4	324.9	316.0	313.5	303.1	299.8	288.6	284.6	272.4	251.5	135°	356.5
344.2	337.0	327.2	316.8	306.3	293.4	284.6	275.7	266.8	251.5	224.9	137.5°	378.0
353.8	343.4	323.3	308.7	289.4	278.9	263.6	253.9	241.0	221.7	195.9	140°	400.0
360.3	344.2	313.5	296.7	270.9	257.2	237.0	226.5	208.0	189.5	170.9	142.5°	422.0
361.9	340.9	300.6	282.1	248.3	232.9	206.3	195.1	177.4	164.5	157.2	145°	443.4
355.5	329.7	280.5	256.4	219.2	201.5	176.6	168.5	157.9	153.1	150.0	147.5°	462.9
342.6	307.9	249.1	220.9	183.0	169.3	156.4	156.4	150.8	148.3	142.7	150°	479.8
319.2	275.7	208.8	181.4	155.6	153.1	145.9	149.1	145.1	143.5	135.4	152.5°	497.2
282.9	229.8	168.5	152.3	140.2	141.9	137.1	140.2	137.8	137.1	127.4	155°	515.1
236.2	183.0	141.9	136.3	128.2	130.6	126.5	130.6	128.2	129.0	121.7	157.5°	529.4
188.6	148.3	125.7	122.5	116.9	118.5	116.1	120.1	119.3	122.5	118.5	160°	542.2
150.8	126.5	112.0	109.7	106.4	107.2	106.4	110.5	111.2	117.6	117.6	162.5°	551.4
124.9	108.8	100.8	99.9	96.8	97.5	98.3	102.4	105.6	113.6	117.6	165°	561.6
107.2	97.5	91.9	91.0	89.5	90.3	91.9	96.8	99.9	110.5	119.3	167.5°	571.3
94.3	88.7	84.6	84.6	83.1	84.6	86.2	91.0	95.1	107.2	116.1	170°	578.0
84.6	80.6	78.2	79.0	78.2	79.8	81.4	86.2	91.0	102.4	111.2	172.5°	580.5
75.8	73.3	71.7	72.5	72.5	75.0	76.6	81.4	85.4	96.0	107.2	175°	582.1
68.5	66.9	66.1	66.9	67.7	70.2	72.5	75.8	79.0	88.7	101.6	177.5°	587.2
62.9	61.3	61.3	61.3	62.1	64.4	67.7	69.4	72.5	83.1	95.1	180°	589.2
59.6	58.8	58.8	58.8	59.6	62.1	65.3	66.9	70.2	80.6	91.9		
55.6	55.6	56.5	55.6	57.2	58.0	61.3	62.9	66.9	77.3	87.9		
49.2	49.2	50.0	50.0	51.6	51.6	54.0	55.6	60.5	69.4	79.0		
43.6	43.6	45.1	44.3	44.3	42.8	45.9	47.6	51.6	60.5	70.2		
37.0	36.3	37.8	35.5	34.7	33.0	35.5	37.8	44.3	50.0	51.6		
29.1	26.6	27.4	25.0	25.0	23.4	25.8	26.6	30.6	36.3	39.5		
17.7	14.5	16.2	13.7	15.3	13.7	14.5	15.3	18.5	22.6	21.8		
4.0	2.5	3.3	0.8	2.5	0.0	2.5	0.8	2.5	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		
6.1	6.6	7.2	8.7	10.2	11.8	13.3	12.3	11.3	9.2	4.1		
29.2	29.9	30.7	31.2	31.7	32.2	32.7	32.2	31.7	30.7	22.5		
50.1	50.6	51.1	51.4	51.7	52.0	52.2	52.0	51.7	51.1	46.0		
71.6	72.1	72.6	72.6	72.6	72.6	72.6	72.4	72.1	71.6	67.5		
93.6	93.9	94.1	94.3	94.6	94.9	95.1	94.6	94.1	93.1	90.0		

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

REPORT NUMBER: P227675
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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°
116.4	116.6	116.6	116.6	116.6	116.6	116.1	115.6	114.6	112.5	0°	315.2	315.2
138.9	139.1	139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	2.5°	318.4	317.6
161.6	161.6	161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	5°	322.4	322.4
184.9	185.2	184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	7.5°	323.3	324.9
208.7	208.7	208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	10°	317.6	316.0
233.4	233.2	233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	12.5°	308.7	307.1
259.8	259.8	259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	15°	307.9	307.1
283.6	283.4	283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	17.5°	302.3	298.3
308.1	307.9	307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	20°	286.1	278.9
332.7	332.5	332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	22.5°	263.6	253.1
356.2	356.0	356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	25°	236.2	221.7
377.7	377.5	377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	27.5°	206.3	191.8
399.5	399.0	399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	30°	183.0	171.7
421.7	421.5	421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	32.5°	166.0	159.6
443.1	442.9	443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	35°	152.3	148.3
462.6	462.4	462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	37.5°	143.5	137.1
479.8	479.8	480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	40°	134.6	126.5
497.2	497.2	497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	42.5°	126.5	118.5
514.7	514.5	514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	45°	118.5	112.8
529.1	528.9	529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	47.5°	114.5	109.7
542.2	542.2	542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	50°	112.8	108.0
551.9	552.4	552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	52.5°	114.5	110.5
562.1	562.6	563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	55°	117.6	115.3
571.0	570.8	571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	57.5°	114.5	110.5
577.5	576.9	577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	60°	107.2	100.8
580.2	580.0	580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	62.5°	102.4	96.0
582.6	583.1	583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	65°	98.3	93.5
587.2	587.2	588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	67.5°	94.3	89.5
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°	89.5	84.6
										71°	87.1	81.4
										72.5°	83.1	76.6
										75°	75.0	68.5
										77.5°	62.1	54.8
										80°	47.6	42.8
										82.5°	35.5	31.4
										85°	18.5	14.5
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.1	2.0
										100°	14.3	10.2
										102.5°	38.9	32.7
										105°	62.4	57.3
										107.5°	85.9	81.8



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175°	180°
315.2	315.2
318.4	317.6
323.3	324.1
326.4	325.6
317.6	316.0
308.7	308.7
307.9	307.9
296.7	295.8
277.3	274.9
249.9	247.5
216.0	212.8
186.2	186.2
166.0	166.0
155.6	156.4
145.9	146.7
131.3	131.3
119.3	119.3
113.6	112.8
108.8	108.0
105.6	104.8
102.4	102.4
99.9	99.9
99.9	98.3
100.8	98.3
99.1	97.5
99.1	98.3
100.8	99.1
100.8	97.5
91.9	86.2
87.1	82.2
78.2	75.0
66.9	66.1
52.4	51.6
42.8	40.3
30.6	26.6
12.1	12.1
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
8.2	8.2
28.6	28.6
55.2	55.2
78.8	79.8

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	108.4	105.4	104.3
112.5°	132.0	128.9	126.8
115°	154.5	152.4	150.4
117.5°	178.0	175.9	173.9
120°	202.5	200.5	199.5
122.5°	228.1	226.1	225.0
125°	253.7	252.7	251.6
127.5°	278.2	276.2	275.2
130°	300.7	299.7	298.7
132.5°	325.3	324.3	321.2
135°	348.8	346.8	344.7
137.5°	372.4	371.3	368.3
140°	394.9	393.8	391.8
142.5°	416.3	417.4	415.3
145°	437.8	437.8	435.8
147.5°	458.3	457.3	454.2
150°	475.7	474.6	472.6
152.5°	493.1	494.1	491.0
155°	512.5	513.5	511.5
157.5°	527.8	528.9	526.8
160°	541.1	541.1	539.1
162.5°	550.3	551.4	548.3
165°	560.6	561.6	559.6
167.5°	570.8	571.8	568.8
170°	578.0	579.0	575.9
172.5°	580.0	582.1	579.0
175°	582.1	583.1	582.1
177.5°	587.2	588.2	586.2
180°	589.2	589.2	589.2

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180°
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103.3
126.8
149.4
172.9
197.4
224.0
249.6
273.1
296.7
320.2
343.7
367.2
390.8
413.3
434.8
454.2
471.6
490.0
510.5
524.8
537.0
547.3
558.5
567.7
574.9
578.0
580.0
585.1
589.2

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