

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: P227784

Luminaire Tested: **ISC-AF-350-LED-E1-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-350-LED-E1-T3
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2439.8 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 20.09
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

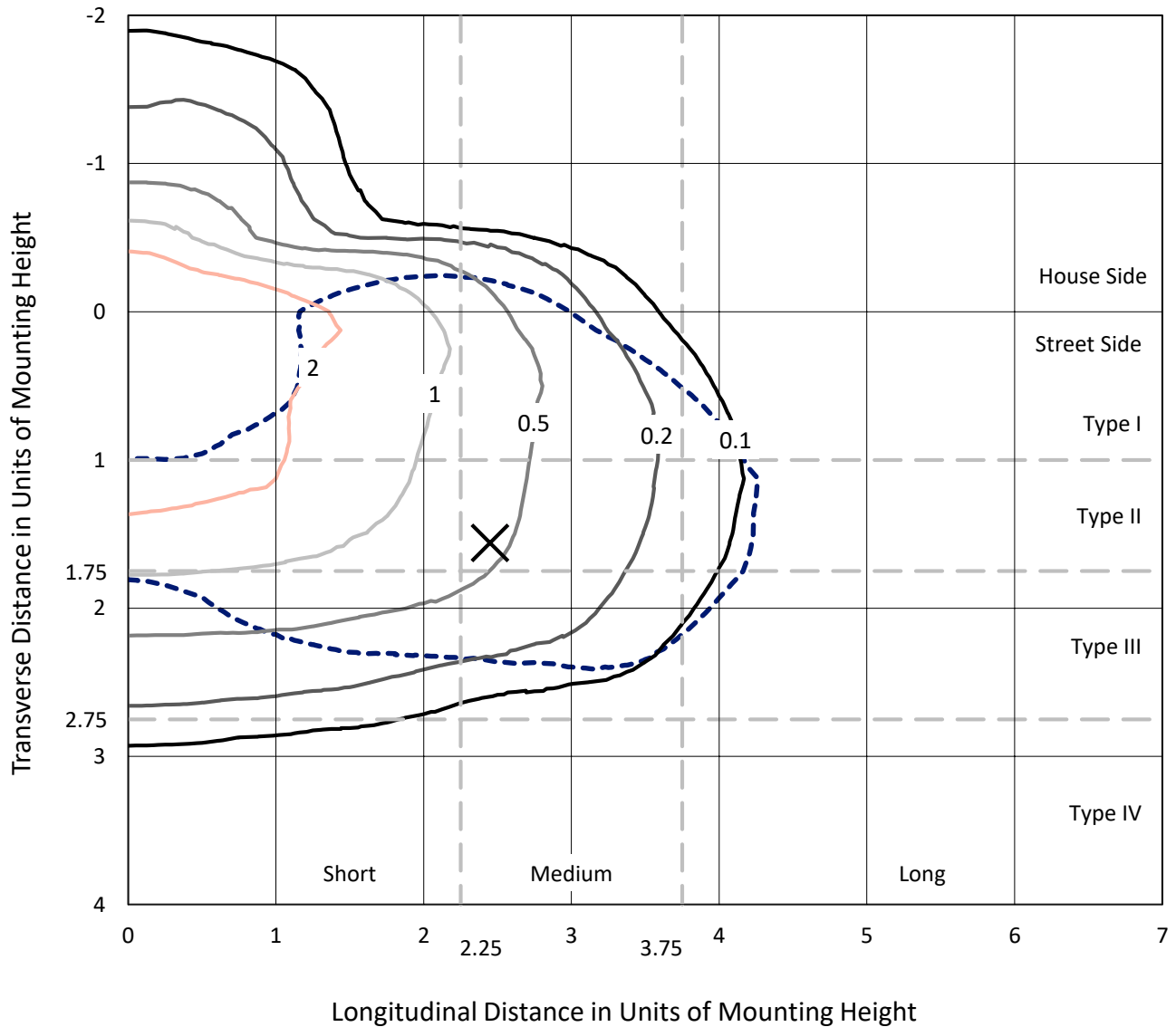


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

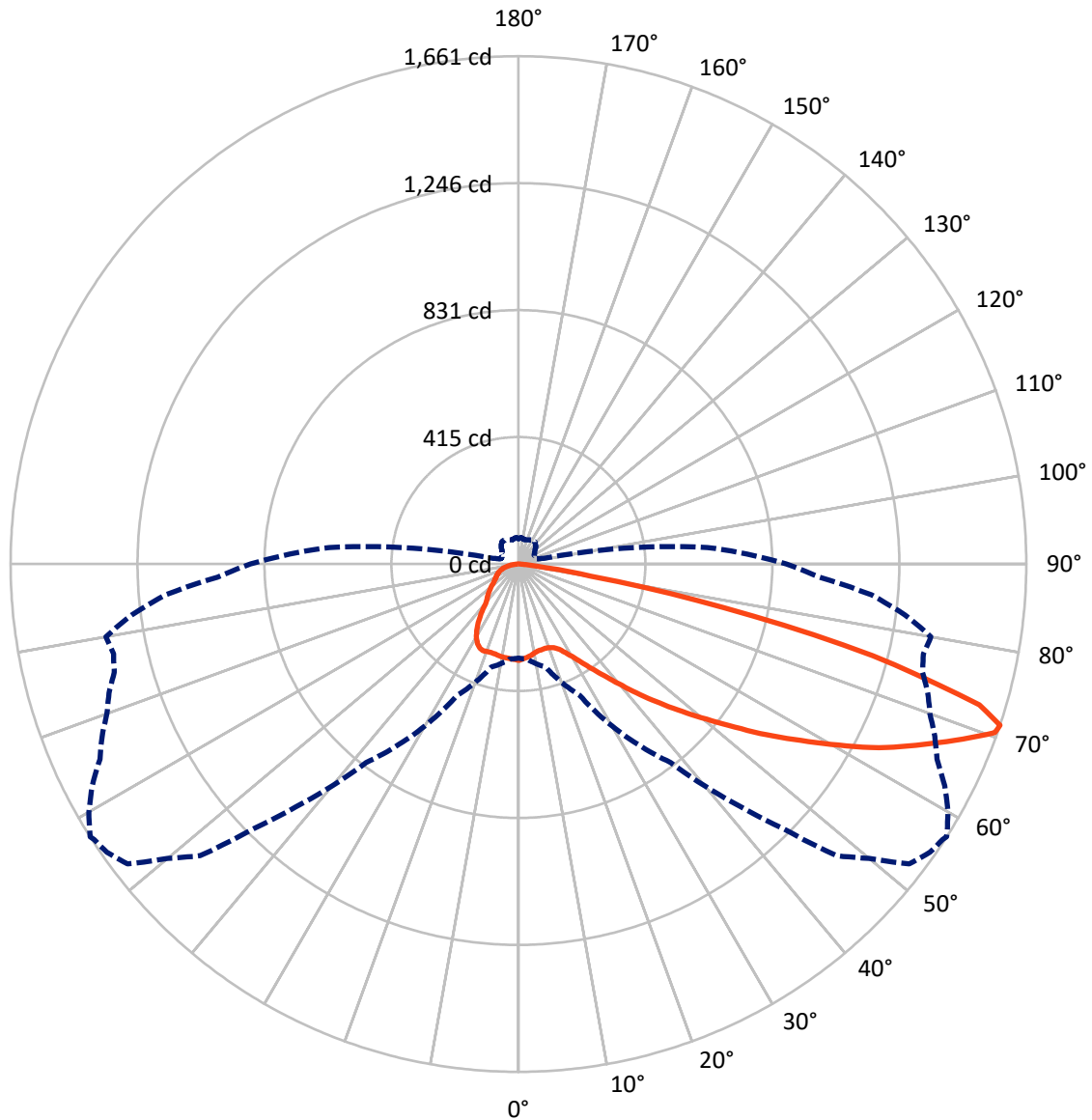


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - Semi-Cutoff

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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	0.0	531.2
	% Fixture	21.8	0.0	21.8
Street Side	Lumens	1908.6	0.0	1908.6
	% Fixture	78.2	0.0	78.2
Total	Lumens	2439.8	0.0	2439.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	1.2
10°-20°	85.5	3.5
20°-30°	141.9	5.8
30°-40°	225.9	9.3
40°-50°	367.0	15.0
50°-60°	550.2	22.6
60°-70°	656.4	26.9
70°-80°	354.5	14.5
80°-90°	28.9	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2439.8	100.0
0°-180°	2439.8	100.0



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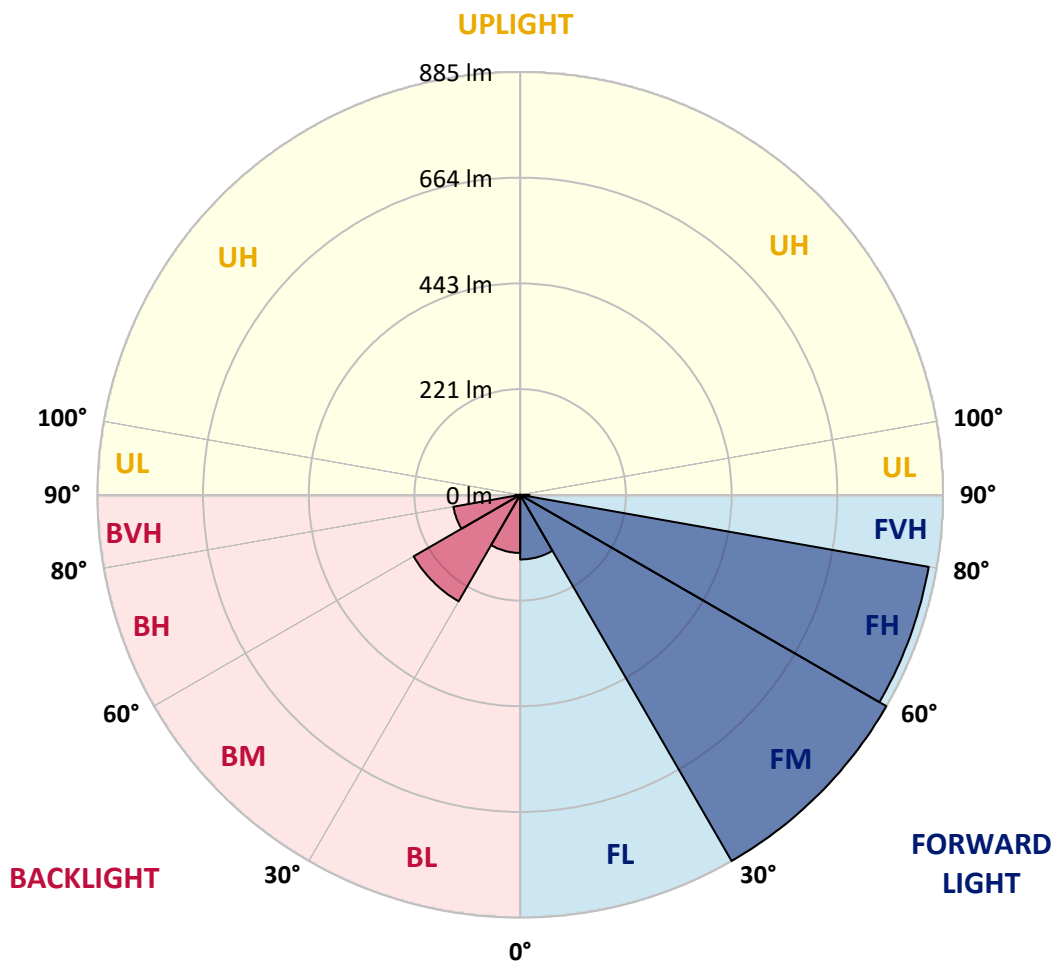
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	135.4	5.5			
FM	(30°-60°)	885.5	36.3			
FH	(60°-80°)	868.8	35.6			G1/1800
FVH	(80°-90°)	19.0	0.8			G1/100
BL	(0°-30°)	121.7	5.0	B1/500		
BM	(30°-60°)	257.6	10.6	B1/1000		
BH	(60°-80°)	142.1	5.8	B1/500		G1/500
BVH	(80°-90°)	9.9	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-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



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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



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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



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CATALOG NUMBER: ISC-AF-350-LED-E1-T3

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
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°	314.4	311.2	315.2	311.2	315.2	312.7	315.2	312.7	315.2	316.8	316.8
5°	312.7	307.1	314.4	310.4	315.2	311.2	314.4	312.0	316.0	317.6	319.2
7.5°	312.0	306.3	313.5	307.9	315.2	309.5	314.4	311.2	316.0	317.6	320.8
10°	311.2	303.9	313.5	305.5	314.4	308.7	314.4	309.5	315.2	316.8	317.6
12.5°	311.2	303.1	313.5	304.7	314.4	306.3	313.5	306.3	314.4	313.5	311.2
15°	312.0	301.5	313.5	303.1	313.5	303.9	312.7	303.1	311.2	308.7	307.1
17.5°	312.0	301.5	312.7	302.3	312.0	303.1	310.4	301.5	308.7	307.9	305.5
20°	313.5	303.1	312.7	305.5	312.7	303.9	309.5	301.5	307.1	302.3	292.6
22.5°	318.4	311.2	318.4	311.2	314.4	306.3	308.7	299.0	298.3	290.2	274.9
25°	329.7	326.4	324.9	316.0	313.5	303.1	299.8	288.6	284.6	272.4	251.5
27.5°	344.2	337.0	327.2	316.8	306.3	293.4	284.6	275.7	266.8	251.5	224.9
30°	353.8	343.4	323.3	308.7	289.4	278.9	263.6	253.9	241.0	221.7	195.9
32.5°	360.3	344.2	313.5	296.7	270.9	257.2	237.0	226.5	208.0	189.5	170.9
35°	361.9	340.9	300.6	282.1	248.3	232.9	206.3	195.1	177.4	164.5	157.2
37.5°	355.5	329.7	280.5	256.4	219.2	201.5	176.6	168.5	157.9	153.1	150.0
40°	342.6	307.9	249.1	220.9	183.0	169.3	156.4	156.4	150.8	148.3	142.7
42.5°	319.2	275.7	208.8	181.4	155.6	153.1	145.9	149.1	145.1	143.5	135.4
45°	282.9	229.8	168.5	152.3	140.2	141.9	137.1	140.2	137.8	137.1	127.4
47.5°	236.2	183.0	141.9	136.3	128.2	130.6	126.5	130.6	128.2	129.0	121.7
50°	188.6	148.3	125.7	122.5	116.9	118.5	116.1	120.1	119.3	122.5	118.5
52.5°	150.8	126.5	112.0	109.7	106.4	107.2	106.4	110.5	111.2	117.6	117.6
55°	124.9	108.8	100.8	99.9	96.8	97.5	98.3	102.4	105.6	113.6	117.6
57.5°	107.2	97.5	91.9	91.0	89.5	90.3	91.9	96.8	99.9	110.5	119.3
60°	94.3	88.7	84.6	84.6	83.1	84.6	86.2	91.0	95.1	107.2	116.1
62.5°	84.6	80.6	78.2	79.0	78.2	79.8	81.4	86.2	91.0	102.4	111.2
65°	75.8	73.3	71.7	72.5	72.5	75.0	76.6	81.4	85.4	96.0	107.2
67.5°	68.5	66.9	66.1	66.9	67.7	70.2	72.5	75.8	79.0	88.7	101.6
70°	62.9	61.3	61.3	61.3	62.1	64.4	67.7	69.4	72.5	83.1	95.1
71°	59.6	58.8	58.8	58.8	59.6	62.1	65.3	66.9	70.2	80.6	91.9
72.5°	55.6	55.6	56.5	55.6	57.2	58.0	61.3	62.9	66.9	77.3	87.9
75°	49.2	49.2	50.0	50.0	51.6	51.6	54.0	55.6	60.5	69.4	79.0
77.5°	43.6	43.6	45.1	44.3	44.3	42.8	45.9	47.6	51.6	60.5	70.2
80°	37.0	36.3	37.8	35.5	34.7	33.0	35.5	37.8	44.3	50.0	51.6
82.5°	29.1	26.6	27.4	25.0	25.0	23.4	25.8	26.6	30.6	36.3	39.5
85°	17.7	14.5	16.2	13.7	15.3	13.7	14.5	15.3	18.5	22.6	21.8
87.5°	4.0	2.5	3.3	0.8	2.5	0.0	2.5	0.8	2.5	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



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CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	315.2	315.2	315.2	315.2
2.5°	318.4	317.6	318.4	317.6
5°	322.4	322.4	323.3	324.1
7.5°	323.3	324.9	326.4	325.6
10°	317.6	316.0	317.6	316.0
12.5°	308.7	307.1	308.7	308.7
15°	307.9	307.1	307.9	307.9
17.5°	302.3	298.3	296.7	295.8
20°	286.1	278.9	277.3	274.9
22.5°	263.6	253.1	249.9	247.5
25°	236.2	221.7	216.0	212.8
27.5°	206.3	191.8	186.2	186.2
30°	183.0	171.7	166.0	166.0
32.5°	166.0	159.6	155.6	156.4
35°	152.3	148.3	145.9	146.7
37.5°	143.5	137.1	131.3	131.3
40°	134.6	126.5	119.3	119.3
42.5°	126.5	118.5	113.6	112.8
45°	118.5	112.8	108.8	108.0
47.5°	114.5	109.7	105.6	104.8
50°	112.8	108.0	102.4	102.4
52.5°	114.5	110.5	99.9	99.9
55°	117.6	115.3	99.9	98.3
57.5°	114.5	110.5	100.8	98.3
60°	107.2	100.8	99.1	97.5
62.5°	102.4	96.0	99.1	98.3
65°	98.3	93.5	100.8	99.1
67.5°	94.3	89.5	100.8	97.5
70°	89.5	84.6	91.9	86.2
71°	87.1	81.4	87.1	82.2
72.5°	83.1	76.6	78.2	75.0
75°	75.0	68.5	66.9	66.1
77.5°	62.1	54.8	52.4	51.6
80°	47.6	42.8	42.8	40.3
82.5°	35.5	31.4	30.6	26.6
85°	18.5	14.5	12.1	12.1
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)