

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: P271497

Luminaire Tested: **ISS-AF-350-LED-E1-T2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29758)
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-T2-7027
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2029.7 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

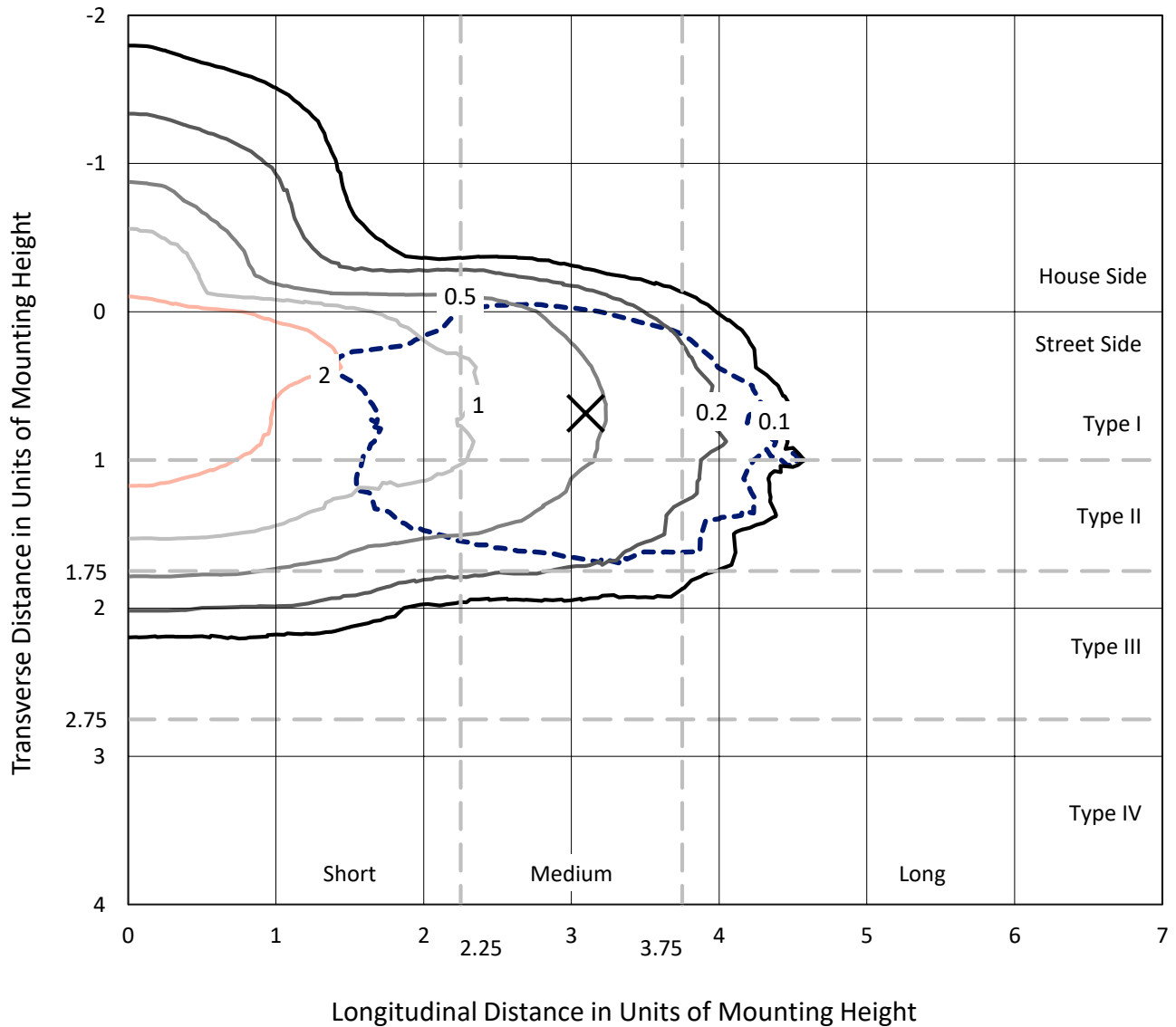
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

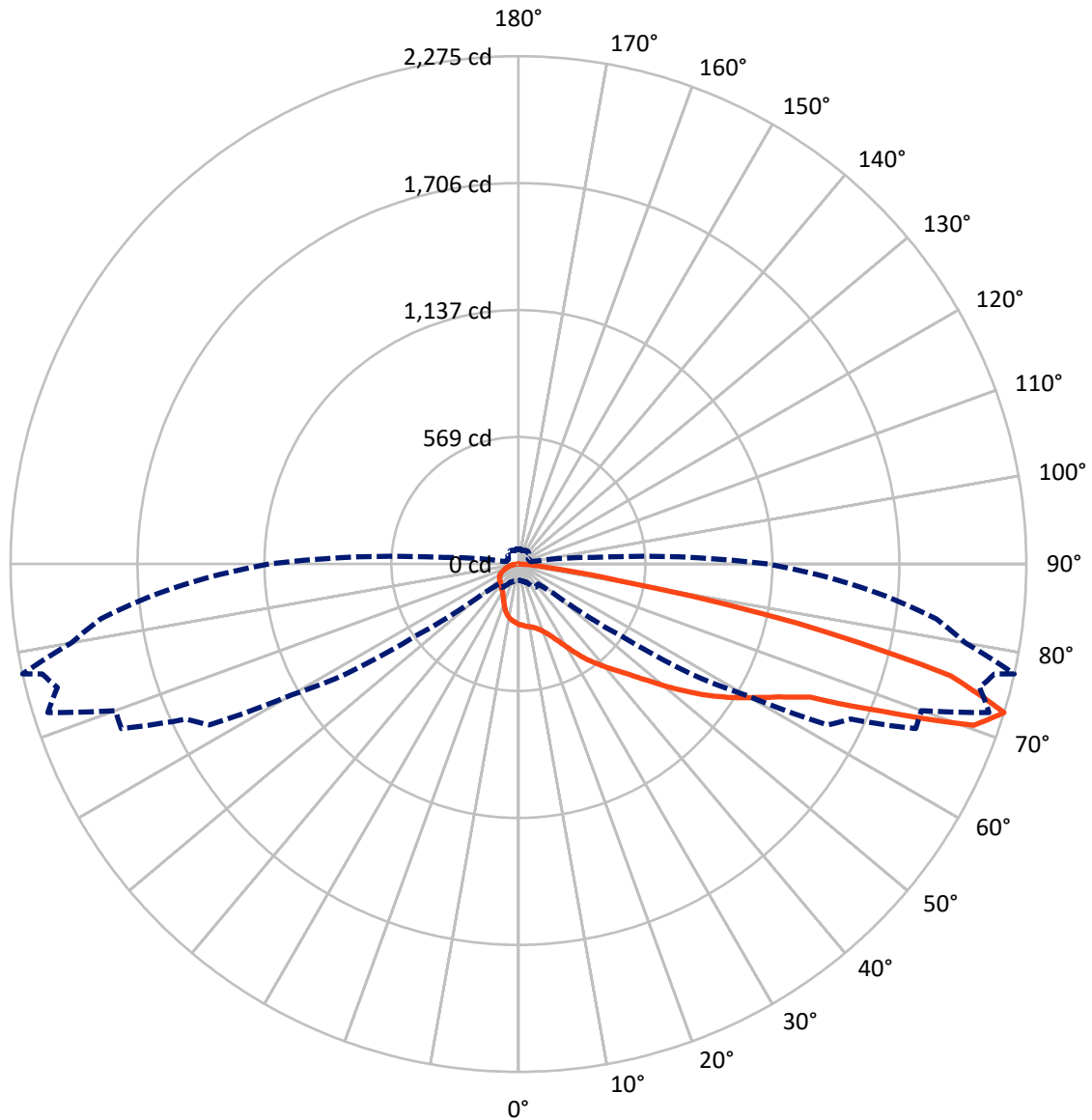
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	336.3	0.0	336.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	1693.4	0.0	1693.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	2029.7	0.0	2029.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.2	1.2
10°-20°	77.2	3.8
20°-30°	137.0	6.8
30°-40°	217.1	10.7
40°-50°	325.7	16.0
50°-60°	422.0	20.8
60°-70°	479.5	23.6
70°-80°	318.2	15.7
80°-90°	27.8	1.4
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°	2029.7	100.0
0°-180°	2029.7	100.0



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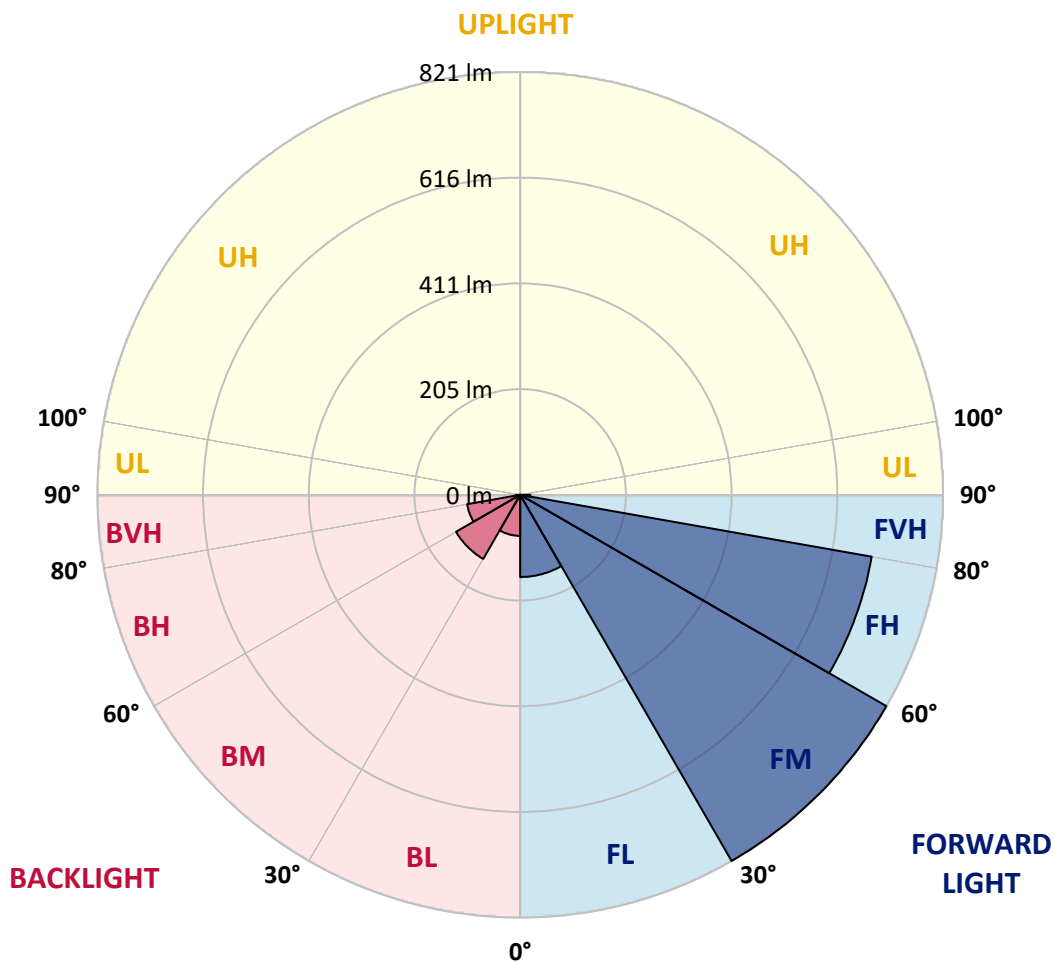
CATALOG NUMBER: ISS-AF-350-LED-E1-T2-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	159.7	7.9			
FM (30°-60°)	821.1	40.5			
FH (60°-80°)	693.1	34.1			G1/1800
FVH (80°-90°)	19.4	1.0			G1/100
BL (0°-30°)	79.7	3.9	B0/110		
BM (30°-60°)	143.7	7.1	B0/220		
BH (60°-80°)	104.6	5.2	B0/110		G0/110
BVH (80°-90°)	8.4	0.4			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0
2.5°	293.6	292.2	291.5	290.2	288.7	288.1	286.1	284.8	286.8	286.1	286.1
5°	315.5	314.0	312.0	310.1	307.3	305.2	303.2	301.1	302.5	301.1	299.8
7.5°	333.3	331.9	329.2	327.2	324.4	321.6	318.9	318.2	316.8	314.8	314.0
10°	343.5	342.2	340.7	339.4	335.3	333.3	329.9	327.8	328.5	325.7	325.7
12.5°	353.1	351.8	351.1	351.1	347.6	345.6	344.2	342.2	343.5	339.4	338.0
15°	361.9	360.7	358.6	360.7	360.0	359.3	358.6	358.0	360.0	355.9	356.5
17.5°	376.4	375.7	371.6	368.8	369.6	371.6	373.0	372.3	372.3	370.2	370.9
20°	398.9	398.9	393.5	388.7	381.2	381.2	381.9	381.2	382.6	383.9	386.0
22.5°	416.1	414.7	412.6	408.5	400.4	393.5	393.5	390.8	392.8	393.5	397.6
25°	437.9	436.7	431.8	431.8	423.6	414.7	413.3	409.3	414.0	405.1	412.0
27.5°	464.6	463.3	457.1	454.5	450.3	439.3	436.7	437.3	442.1	429.1	435.9
30°	498.2	496.9	489.3	481.9	474.9	463.3	461.9	461.3	472.1	457.1	466.0
32.5°	540.6	540.6	532.4	522.2	508.5	492.7	487.2	487.9	503.1	486.6	501.6
35°	605.0	596.7	581.7	565.9	551.6	533.1	525.6	524.3	537.8	521.5	538.5
37.5°	646.0	640.5	626.8	615.2	599.5	581.7	576.3	578.3	589.8	565.9	590.5
40°	683.0	682.4	673.4	665.8	650.1	632.4	639.1	666.5	697.4	650.8	651.5
42.5°	707.7	709.0	708.3	709.0	700.0	681.6	693.2	731.6	784.3	756.9	731.6
45°	711.6	716.5	718.6	732.3	741.1	730.2	736.4	776.8	882.1	924.5	810.3
47.5°	722.0	726.8	722.7	739.0	780.2	779.5	804.2	819.2	833.5	840.4	926.6
50°	735.7	744.5	740.5	754.1	787.6	806.9	828.1	847.2	835.6	792.5	815.8
52.5°	736.4	746.6	769.2	783.0	815.8	811.6	826.0	815.8	833.5	789.0	811.6
55°	676.2	678.2	743.9	813.0	870.5	858.9	850.0	826.7	849.3	793.8	822.6
57.5°	581.0	587.9	656.3	772.6	895.8	906.1	903.3	901.3	919.1	845.1	876.7
60°	476.3	484.5	549.5	686.5	843.1	869.8	906.7	929.4	975.2	945.7	997.7
62.5°	297.0	303.2	375.0	546.1	743.9	796.5	850.7	877.4	943.7	957.4	1045.6
65°	141.7	143.7	171.8	297.0	540.6	639.9	719.9	776.8	858.2	919.8	1038.8
67.5°	110.2	110.9	121.1	158.1	277.1	343.5	434.6	509.9	596.7	765.1	912.9
70°	88.2	88.2	96.5	116.3	171.8	180.6	203.9	229.2	266.2	401.7	521.5
72.5°	73.9	73.9	79.4	91.6	127.3	129.4	128.0	125.9	125.9	158.8	202.6
75°	62.3	61.6	64.9	73.2	94.4	97.2	95.8	91.0	85.6	85.6	96.5
77.5°	50.7	50.7	53.4	57.5	68.5	69.8	69.8	65.7	60.9	61.6	66.4
80°	39.6	39.6	41.7	44.5	47.9	47.3	47.3	43.1	39.6	39.0	41.7
82.5°	28.7	29.5	34.2	32.2	30.8	28.7	28.7	28.0	25.3	23.3	24.6
85°	8.9	9.6	16.3	19.1	15.7	12.9	12.4	10.3	11.0	8.9	10.3
87.5°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
0°	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0
2.5°	282.7	284.0	281.3	281.3	277.8	279.9	276.5	277.1	273.7	275.2	275.2
5°	296.4	297.0	293.6	292.2	288.7	288.7	285.4	285.4	280.6	282.0	280.6
7.5°	309.4	309.4	306.0	303.2	299.8	298.3	294.3	292.2	288.1	287.4	285.4
10°	320.2	320.2	315.5	312.7	308.7	306.6	301.1	299.0	294.3	290.8	288.7
12.5°	334.0	332.6	327.2	324.4	317.6	316.8	308.7	307.3	300.4	298.3	294.9
15°	350.4	351.8	342.8	342.2	332.6	331.9	321.0	320.2	310.1	309.4	304.5
17.5°	368.1	370.9	363.4	362.6	351.1	351.1	338.0	337.3	323.7	323.0	316.8
20°	383.9	387.3	382.6	383.9	373.7	374.3	360.0	360.0	340.7	339.4	334.0
22.5°	398.3	405.1	401.0	408.5	398.3	403.1	383.9	387.3	364.7	361.9	353.8
25°	412.6	421.6	420.1	432.5	425.0	433.3	413.3	420.1	390.8	392.8	381.9
27.5°	427.1	438.6	437.3	455.1	452.4	468.7	451.7	459.2	427.1	429.1	416.7
30°	450.9	464.0	459.2	477.7	477.7	504.4	491.4	503.1	467.4	471.5	457.1
32.5°	483.2	498.2	483.8	507.8	506.5	541.3	531.1	550.9	516.0	521.5	503.7
35°	518.1	541.9	518.7	545.5	541.3	577.6	570.7	602.9	565.9	572.1	554.3
37.5°	563.9	592.6	561.8	585.2	566.7	608.4	604.3	648.0	610.5	626.2	605.0
40°	617.9	640.5	602.2	622.1	591.3	634.5	627.6	687.7	652.9	678.2	659.1
42.5°	667.9	683.7	633.0	657.6	620.7	664.5	652.2	724.8	694.6	733.6	712.4
45°	713.1	731.0	663.8	691.2	650.1	698.1	676.9	760.3	739.8	798.6	777.4
47.5°	777.4	751.4	691.9	727.4	681.6	734.4	706.2	802.1	794.6	878.0	853.4
50°	756.2	773.4	715.1	752.2	710.4	774.7	743.9	852.0	854.1	964.2	949.9
52.5°	758.3	786.9	732.9	784.3	743.9	830.8	798.6	912.2	921.8	1047.7	1027.9
55°	770.6	813.0	759.7	828.8	791.0	893.1	870.5	977.3	993.6	1126.5	1114.8
57.5°	801.4	860.3	805.5	895.8	856.8	964.2	943.7	1044.3	1066.8	1205.2	1201.8
60°	919.8	989.6	893.7	993.6	941.6	1045.0	1017.6	1114.8	1137.3	1280.4	1289.2
62.5°	1051.8	1173.0	1116.1	1220.2	1082.6	1187.3	1106.6	1201.8	1203.1	1361.1	1389.2
65°	1086.1	1272.2	1320.8	1514.5	1442.6	1550.0	1334.5	1398.1	1315.9	1508.3	1548.7
67.5°	1073.0	1300.9	1435.7	1654.0	1735.4	1923.0	1886.7	1864.8	1674.6	1812.8	1861.4
70°	787.6	1029.3	1359.1	1580.8	1815.6	1938.7	2133.8	2153.7	2145.4	2126.3	2158.4
72.5°	358.6	562.5	919.8	1173.0	1560.3	1643.1	1925.8	1920.3	2210.4	2138.5	2189.2
75°	140.9	216.9	437.9	655.0	1079.2	1181.2	1501.4	1422.1	1784.1	1678.8	1786.8
77.5°	77.3	97.2	164.2	281.3	589.2	643.3	919.1	786.4	1106.6	923.9	960.2
80°	46.5	58.2	75.3	106.8	250.4	264.8	392.1	316.1	452.4	343.5	333.3
82.5°	25.3	31.5	37.5	52.7	93.1	103.3	135.6	121.8	145.1	123.9	121.1
85°	10.3	13.7	14.4	21.2	30.8	35.7	43.1	46.5	56.9	52.0	50.7
87.5°	0.0	0.7	0.0	1.3	0.0	1.3	0.0	2.1	2.1	3.4	4.1
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°	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0
2.5°	273.1	275.2	272.4	272.4	269.0	271.0	269.0	266.9	263.5	264.1	259.4
5°	277.8	279.2	275.8	274.4	272.4	271.6	267.5	263.5	258.7	258.7	253.2
7.5°	282.7	282.7	277.8	277.8	273.1	271.6	265.4	258.7	251.9	251.2	242.9
10°	285.4	284.8	278.6	278.6	271.6	271.0	263.5	253.2	243.6	240.8	229.2
12.5°	290.8	290.2	282.7	281.3	272.4	272.4	261.5	247.8	234.1	229.2	212.8
15°	297.7	298.3	289.4	287.4	277.1	276.5	261.5	240.8	222.4	214.9	195.0
17.5°	308.7	309.4	297.0	294.9	282.7	280.6	262.1	232.8	206.7	198.4	180.6
20°	323.0	321.0	304.5	303.9	287.4	285.4	261.5	220.4	190.9	182.7	166.9
22.5°	340.7	338.8	317.6	315.5	296.4	292.8	260.8	207.4	176.6	167.6	157.5
25°	365.4	362.6	336.8	334.0	310.1	304.5	260.1	193.7	164.2	157.5	151.3
27.5°	396.2	390.8	359.3	356.5	324.4	317.6	257.4	178.0	151.9	147.1	144.4
30°	433.3	428.4	388.0	383.9	343.5	334.7	254.6	163.5	143.0	140.9	138.9
32.5°	477.0	472.1	422.9	418.1	368.1	355.2	249.8	151.9	137.5	137.5	134.8
35°	522.8	518.7	460.7	457.1	395.5	378.5	243.6	141.7	132.8	132.8	130.1
37.5°	563.9	567.3	501.6	498.9	422.9	401.7	236.8	134.8	128.6	127.3	124.5
40°	608.4	616.6	539.9	541.9	451.7	426.3	228.6	129.4	123.9	122.5	121.8
42.5°	653.6	669.2	580.3	587.9	480.4	451.7	222.4	125.9	121.8	119.0	118.4
45°	709.8	732.3	630.3	644.6	513.9	482.5	220.4	121.8	115.6	112.3	110.2
47.5°	779.5	809.6	691.9	708.3	558.5	519.4	224.5	120.5	111.6	107.4	103.3
50°	862.2	891.0	765.1	771.9	608.4	559.8	233.4	122.5	110.2	104.0	97.8
52.5°	949.9	971.8	842.4	835.0	660.4	599.5	243.6	123.2	106.8	100.6	93.1
55°	1040.1	1052.5	914.3	894.4	707.7	639.1	257.4	122.5	104.0	97.2	87.6
57.5°	1128.5	1132.7	978.0	958.9	754.1	686.5	274.4	120.5	99.9	93.1	82.8
60°	1214.7	1221.5	1048.4	1030.6	804.8	747.3	299.0	117.0	94.4	89.7	78.7
62.5°	1309.2	1331.7	1132.7	1135.4	874.6	842.4	345.6	112.8	88.9	83.5	72.5
65°	1437.7	1524.1	1271.6	1335.8	1008.8	1021.7	434.6	101.3	81.5	74.6	67.0
67.5°	1760.0	1854.6	1609.0	1634.9	1322.8	1245.5	490.7	86.2	71.9	67.0	62.3
70°	2163.8	2096.1	1921.7	1764.2	1506.3	1280.4	431.8	72.5	63.6	60.9	58.2
72.5°	2274.8	2031.9	1888.1	1652.1	1392.6	1116.9	330.6	62.3	56.9	55.4	53.4
75°	1999.0	1647.2	1655.5	1312.5	1154.5	851.3	225.8	53.4	49.2	48.6	47.9
77.5°	1278.4	846.6	1030.6	648.8	666.5	394.2	110.2	44.5	42.4	42.4	41.1
80°	454.5	282.0	318.9	204.6	186.2	125.2	59.6	35.7	34.2	34.9	34.2
82.5°	136.3	108.2	106.1	82.8	64.3	52.7	32.9	27.4	26.1	26.7	25.3
85°	54.8	42.4	35.7	27.4	22.5	20.5	17.8	18.4	16.3	17.8	15.7
87.5°	3.4	2.8	2.1	2.8	0.0	1.3	3.4	2.8	0.7	2.8	2.1
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):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
0°	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0
2.5°	262.8	258.0	260.1	258.0	259.4	255.3	256.6	253.2	253.2	252.5	249.1
5°	254.0	249.1	248.4	243.6	244.2	238.8	238.1	232.0	232.0	226.6	216.2
7.5°	241.6	234.1	233.4	223.8	223.0	215.5	212.8	206.0	205.4	199.2	193.0
10°	225.8	214.2	212.2	199.9	200.5	192.2	191.6	186.8	186.8	184.2	184.2
12.5°	208.0	195.0	193.7	184.2	184.8	179.3	180.0	177.2	178.7	180.0	184.8
15°	191.6	181.4	180.0	173.8	174.5	173.1	175.2	175.2	177.2	180.6	188.8
17.5°	178.0	169.0	169.7	166.9	169.7	169.0	173.1	172.5	176.6	180.6	190.9
20°	165.6	160.9	162.9	162.2	165.6	165.6	169.0	169.7	173.1	178.7	190.2
22.5°	157.5	156.0	158.1	158.1	160.9	161.5	164.9	166.9	169.0	174.5	184.8
25°	152.6	151.9	154.0	154.7	156.8	157.5	160.9	160.9	164.2	167.6	173.1
27.5°	145.7	144.4	147.1	147.1	149.8	149.2	153.3	151.9	155.4	156.8	158.1
30°	140.9	138.9	140.9	140.2	142.3	140.2	142.3	140.2	142.3	142.3	140.2
32.5°	136.3	134.2	134.8	132.1	134.2	131.4	132.1	129.4	130.7	129.4	130.1
35°	131.4	128.6	128.6	125.2	125.2	121.8	123.2	120.5	123.2	125.2	124.5
37.5°	124.5	122.5	122.5	119.7	121.1	119.7	122.5	121.1	121.8	119.0	114.3
40°	120.5	121.8	121.1	123.2	121.8	119.7	117.7	113.5	112.8	111.6	108.9
42.5°	114.3	115.6	112.3	114.9	112.8	113.5	112.3	110.2	108.9	107.4	104.7
45°	105.4	105.4	102.7	106.8	104.7	108.9	107.4	107.4	106.1	104.0	102.0
47.5°	97.8	98.5	95.8	99.3	97.8	103.3	102.7	104.7	104.7	103.3	97.8
50°	93.1	91.6	89.7	93.1	92.3	97.2	97.8	102.0	101.3	102.0	97.2
52.5°	88.9	86.2	84.2	86.2	86.2	90.3	91.6	96.5	97.2	98.5	95.8
55°	84.2	80.8	79.4	80.8	80.8	84.9	87.0	90.3	92.3	96.5	95.1
57.5°	80.1	75.3	73.9	75.3	76.0	80.1	82.1	85.6	88.2	93.7	93.1
60°	75.3	71.1	69.8	71.9	72.5	76.6	78.7	82.1	84.2	90.3	90.3
62.5°	69.8	66.4	66.4	67.0	68.5	72.5	73.9	78.7	79.4	87.0	87.6
65°	64.9	62.9	62.9	63.6	64.9	68.5	69.1	73.9	74.6	82.1	84.2
67.5°	60.9	59.6	59.6	60.3	60.9	63.6	64.3	69.1	70.4	77.3	80.8
70°	56.9	55.4	54.8	54.8	56.9	58.9	60.3	64.9	65.7	71.9	76.0
72.5°	52.0	50.7	50.7	49.9	52.0	53.4	56.1	58.9	60.3	66.4	69.1
75°	47.3	45.8	45.8	45.2	46.5	49.2	49.9	52.7	53.4	58.9	61.6
77.5°	41.1	39.6	39.6	39.6	41.1	41.7	42.4	45.2	46.5	51.3	54.1
80°	34.2	32.9	33.6	32.9	34.9	32.2	34.2	37.0	38.3	41.1	39.6
82.5°	26.1	24.0	24.6	24.6	25.3	23.3	24.6	26.1	27.4	29.5	28.7
85°	16.3	14.4	15.7	14.4	15.7	13.7	15.0	15.0	16.3	15.0	14.4
87.5°	3.4	1.3	3.4	1.3	4.1	0.0	2.1	0.0	1.3	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



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CATALOG NUMBER: ISS-AF-350-LED-E1-T2-7027

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	155°	165°	175°	180°
0°	271.0	271.0	271.0	271.0
2.5°	245.7	242.9	241.6	240.8
5°	210.8	206.0	204.6	203.3
7.5°	189.5	188.1	188.1	187.5
10°	185.5	187.5	188.1	188.1
12.5°	190.2	193.7	196.4	196.4
15°	196.4	202.6	206.0	206.0
17.5°	201.2	209.5	212.8	213.4
20°	201.8	210.1	214.9	215.5
22.5°	195.7	201.2	204.6	204.6
25°	180.0	182.7	184.8	184.8
27.5°	160.2	159.4	158.8	161.5
30°	139.6	138.2	135.6	138.2
32.5°	132.1	127.3	120.5	122.5
35°	120.5	119.0	115.6	116.3
37.5°	116.3	128.0	127.3	128.0
40°	111.6	125.9	125.2	126.6
42.5°	107.4	115.6	107.4	108.2
45°	99.9	103.3	96.5	96.5
47.5°	96.5	95.1	92.3	91.6
50°	93.7	93.7	92.3	91.0
52.5°	91.6	90.3	95.1	94.4
55°	88.9	87.6	91.0	91.0
57.5°	87.0	83.5	88.9	88.9
60°	84.9	81.5	87.0	87.0
62.5°	83.5	79.4	86.2	85.6
65°	81.5	77.3	86.2	84.9
67.5°	78.7	73.2	84.9	82.8
70°	73.2	68.5	80.1	74.6
72.5°	67.7	62.3	68.5	63.6
75°	59.6	54.8	55.4	54.8
77.5°	49.9	44.5	43.1	43.7
80°	37.5	34.2	32.9	32.9
82.5°	27.4	23.3	24.0	19.9
85°	12.4	8.9	6.8	6.8
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)