

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: P271390

Luminaire Tested: **ISC-AF-600-LED-E1-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29757)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-600-LED-E1-T4W-7027
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3395.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

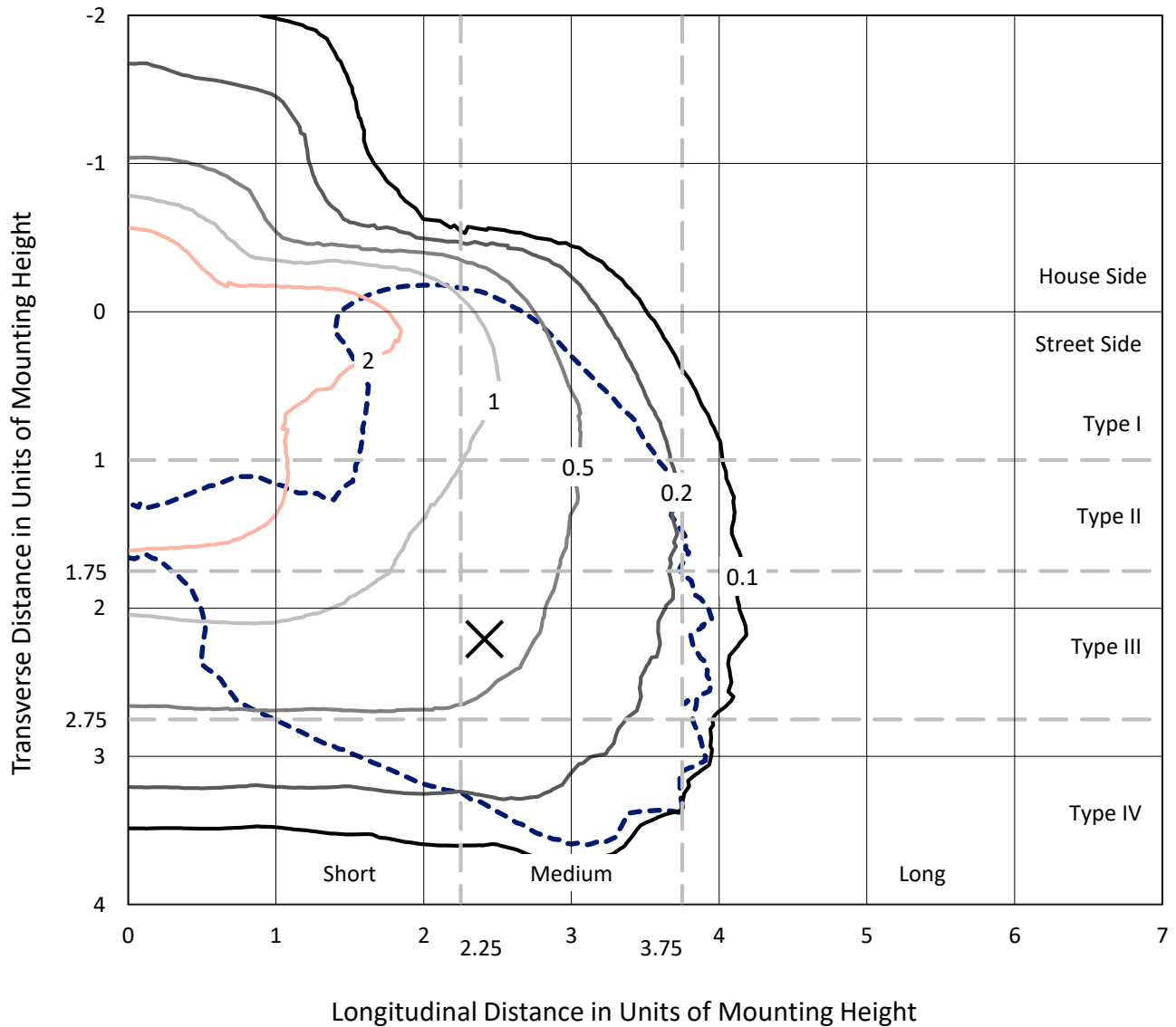
Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

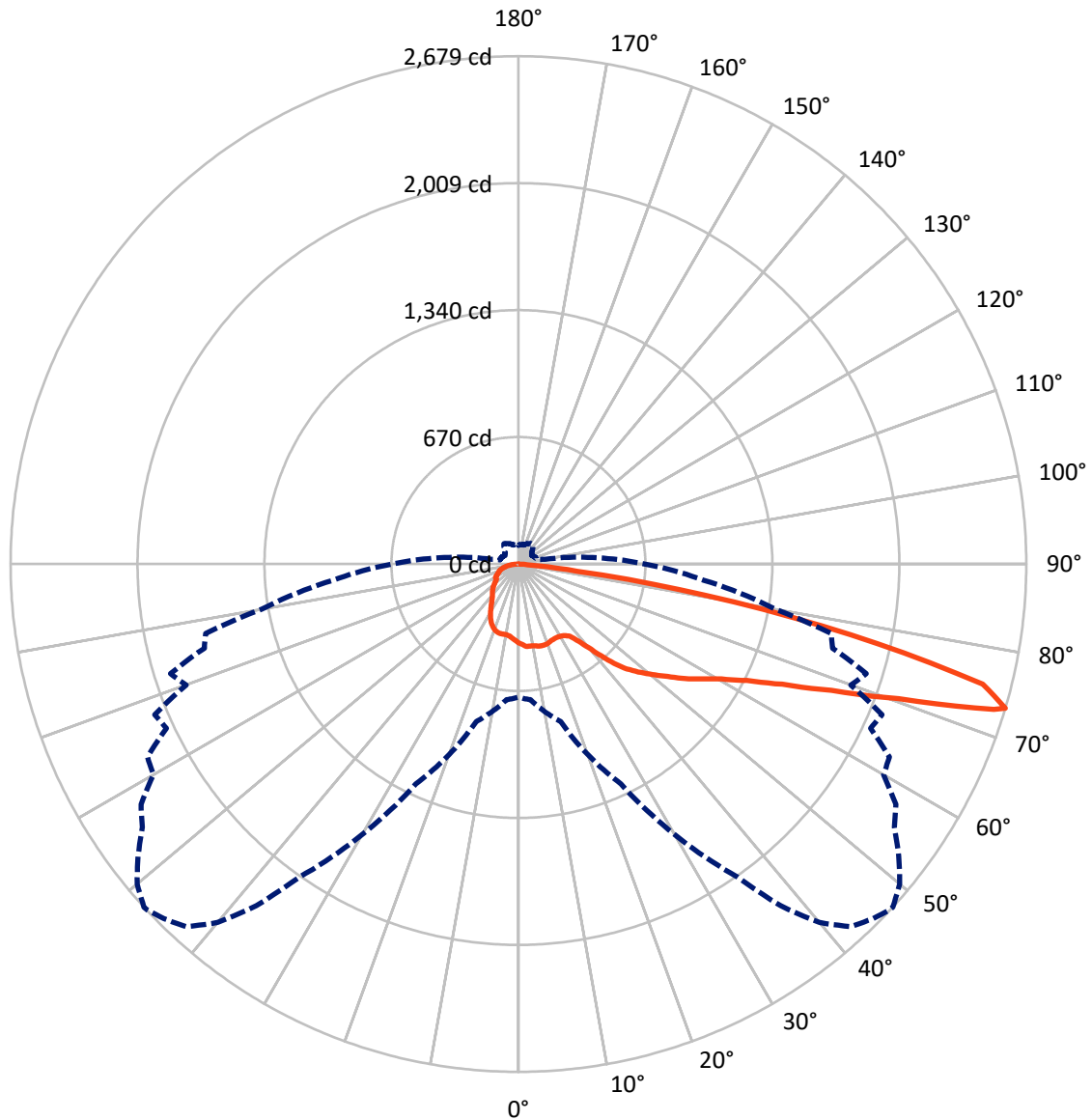
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 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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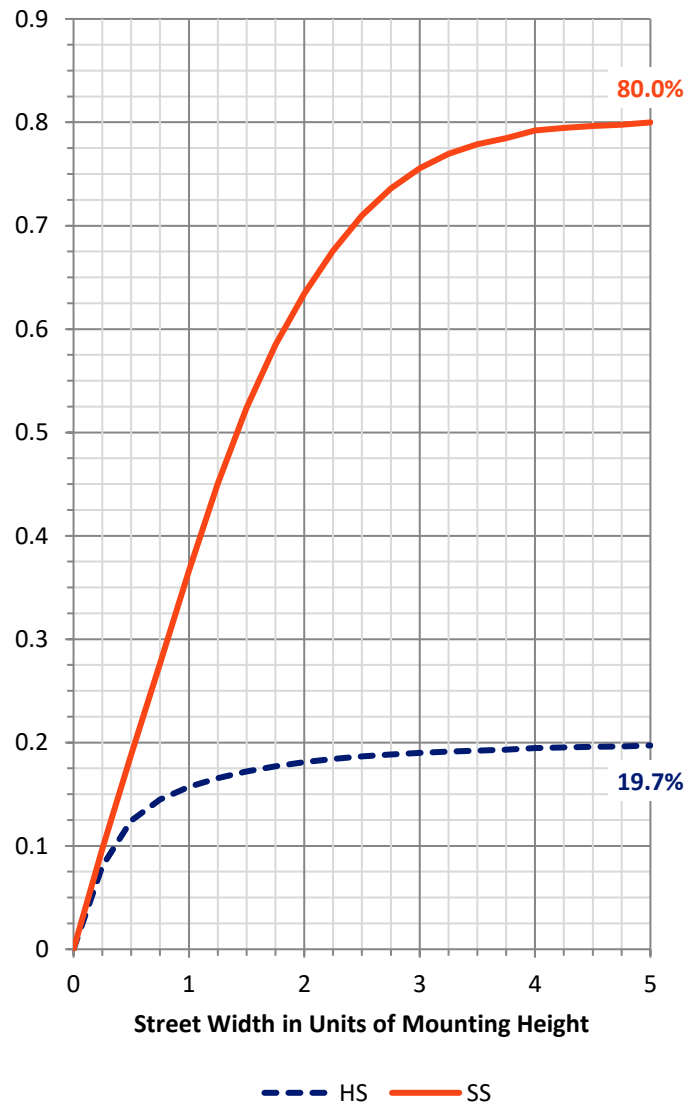
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	678.5	0.0	678.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	2717.5	0.0	2717.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	3395.9	0.0	3395.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	1.2
10°-20°	118.2	3.5
20°-30°	181.6	5.3
30°-40°	265.0	7.8
40°-50°	436.9	12.9
50°-60°	684.0	20.1
60°-70°	927.9	27.3
70°-80°	687.1	20.2
80°-90°	55.5	1.6
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°	3395.9	100.0
0°-180°	3395.9	100.0



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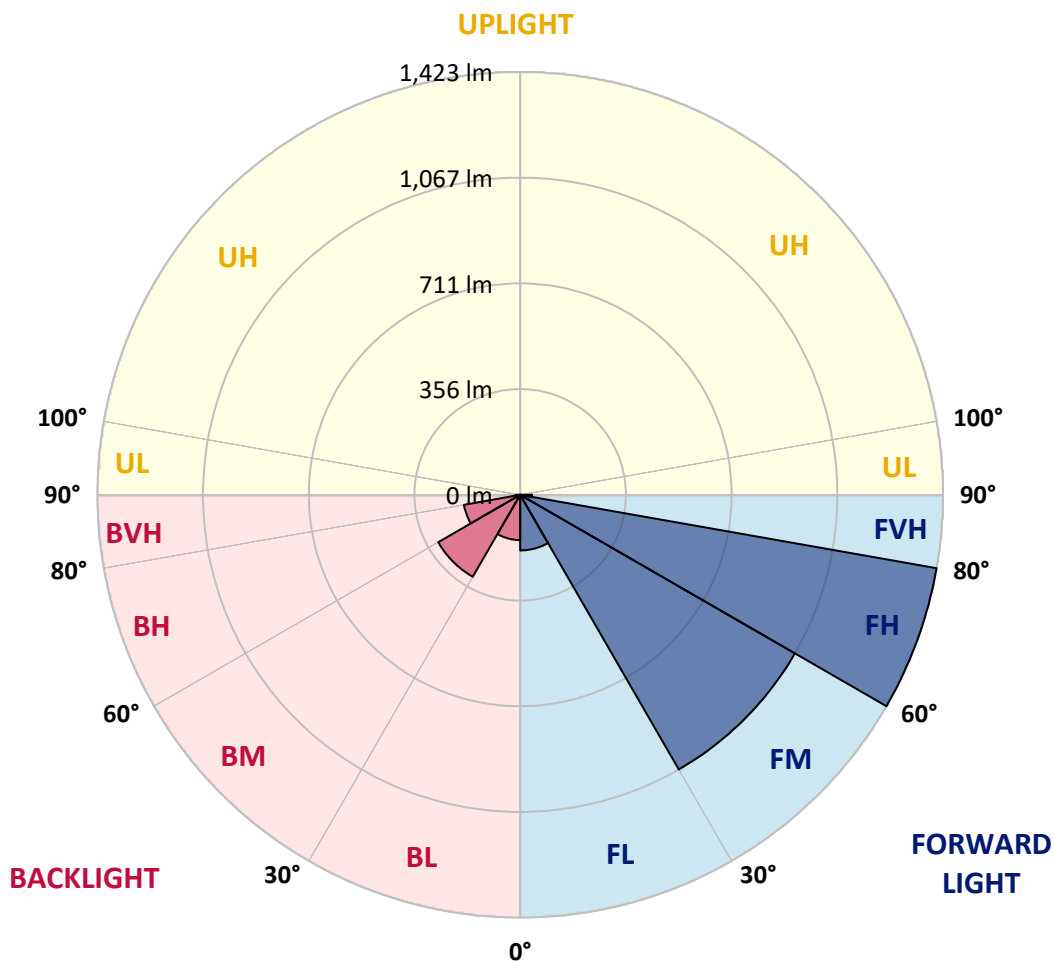
CATALOG NUMBER: ISC-AF-600-LED-E1-T4W-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	187.2	5.5			
FM	(30°-60°)	1067.3	31.4			
FH	(60°-80°)	1422.9	41.9			G1/1800
FVH	(80°-90°)	40.0	1.2			G1/100
BL	(0°-30°)	152.3	4.5	B1/500		
BM	(30°-60°)	318.6	9.4	B1/1000		
BH	(60°-80°)	192.1	5.7	B1/500		G1/500
BVH	(80°-90°)	15.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-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°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	441.7	440.6	437.1	436.0	432.7	430.5	429.4	428.2	431.5	429.4	426.0
5°	469.7	467.5	463.0	456.2	449.5	445.0	443.9	441.7	441.7	439.5	437.1
7.5°	489.8	488.8	482.0	472.0	460.7	452.8	448.4	445.0	446.2	443.9	437.1
10°	508.9	506.7	495.4	483.2	466.3	457.3	451.8	446.2	450.7	447.3	438.4
12.5°	523.5	521.3	505.6	489.8	470.8	460.7	455.1	451.8	456.2	454.0	443.9
15°	531.3	529.1	513.4	494.3	474.1	463.0	460.7	458.5	461.9	457.3	448.4
17.5°	526.9	526.9	512.3	492.1	475.3	464.2	460.7	458.5	463.0	458.5	448.4
20°	510.1	512.3	502.2	481.0	468.6	460.7	457.3	452.8	457.3	452.8	446.2
22.5°	488.8	491.0	485.4	466.3	457.3	451.8	450.7	446.2	449.5	446.2	439.5
25°	469.7	469.7	467.5	450.7	449.5	445.0	446.2	443.9	446.2	441.7	437.1
27.5°	470.8	470.8	461.9	445.0	443.9	443.9	443.9	443.9	445.0	441.7	437.1
30°	537.0	539.3	513.4	466.3	449.5	447.3	448.4	447.3	448.4	447.3	441.7
32.5°	636.8	636.8	612.0	539.3	479.9	465.2	459.7	458.5	455.1	454.0	449.5
35°	735.4	734.3	709.6	628.9	553.7	525.8	507.8	491.0	483.2	475.3	467.5
37.5°	818.4	815.0	811.6	719.7	641.2	608.7	587.4	562.8	547.1	533.6	515.6
40°	895.7	901.3	913.7	803.7	728.6	698.4	677.1	645.7	630.0	613.3	591.9
42.5°	1002.1	1010.1	1011.1	894.6	808.3	788.0	771.3	747.7	731.0	710.6	691.7
45°	1105.4	1106.4	1109.9	992.1	905.9	880.0	867.7	845.2	823.9	798.1	782.4
47.5°	1175.9	1172.6	1187.2	1104.2	1020.1	991.0	973.0	939.4	906.9	874.4	850.9
50°	1262.3	1259.0	1259.0	1231.9	1152.4	1118.7	1087.4	1024.6	989.8	949.5	915.9
52.5°	1338.6	1326.2	1334.1	1349.7	1291.4	1248.8	1193.8	1123.3	1077.2	1028.0	985.4
55°	1442.8	1378.9	1396.8	1451.8	1429.3	1363.2	1290.2	1215.1	1162.5	1106.4	1067.2
57.5°	1406.8	1363.2	1415.9	1512.3	1511.2	1449.4	1387.8	1296.0	1243.3	1190.5	1142.4
60°	1278.0	1300.4	1414.7	1553.8	1559.4	1511.2	1460.7	1375.5	1334.1	1279.1	1230.9
62.5°	1178.1	1210.6	1367.7	1550.4	1614.3	1569.4	1527.9	1477.5	1448.3	1402.4	1353.0
65°	1172.6	1191.6	1344.1	1547.0	1691.6	1668.2	1649.0	1625.6	1619.8	1586.2	1529.1
67.5°	1226.4	1244.3	1384.5	1633.3	1806.0	1795.9	1823.9	1819.3	1844.1	1827.2	1780.2
70°	1121.1	1131.1	1303.7	1663.6	2067.2	2112.1	2174.8	2171.5	2224.1	2183.8	2128.8
72.5°	786.9	807.1	959.6	1374.4	2072.7	2312.7	2458.4	2581.7	2639.0	2649.0	2623.2
73°	702.8	718.6	859.8	1280.3	2016.8	2272.4	2468.5	2595.1	2645.6	2676.9	2679.3
75°	244.4	252.2	375.5	775.8	1612.0	1983.1	2235.3	2349.7	2337.3	2429.3	2530.2
77.5°	78.5	79.6	97.6	200.6	778.0	1230.9	1512.3	1617.7	1557.1	1656.8	1791.4
80°	48.1	50.5	63.9	90.8	204.1	373.2	632.2	791.5	759.0	852.0	995.5
82.5°	29.1	30.3	39.3	56.1	81.8	90.8	118.8	161.4	198.4	238.8	312.8
85°	13.5	14.6	19.0	25.8	33.7	34.8	33.7	31.4	35.8	41.5	48.1
87.5°	0.0	0.0	1.1	2.2	1.1	0.0	0.0	0.0	0.0	1.1	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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	429.4	426.0	426.0	421.6	423.7	419.3	421.6	417.0	419.3	413.7	417.0
5°	436.0	430.5	430.5	423.7	424.9	417.0	420.4	411.4	415.8	405.9	412.5
7.5°	439.5	429.4	433.8	421.6	427.1	413.7	420.4	405.9	414.7	399.0	410.3
10°	443.9	429.4	437.1	423.7	430.5	414.7	423.7	405.9	417.0	397.9	408.1
12.5°	450.7	435.0	441.7	426.0	435.0	417.0	426.0	408.1	419.3	397.9	410.3
15°	455.1	439.5	446.2	430.5	437.1	417.0	428.2	406.9	419.3	396.8	410.3
17.5°	454.0	439.5	446.2	428.2	436.0	415.8	427.1	405.9	417.0	393.5	408.1
20°	449.5	437.1	441.7	426.0	432.7	412.5	422.7	401.4	413.7	390.1	404.7
22.5°	443.9	431.5	437.1	422.7	429.4	409.2	418.1	399.0	411.4	387.9	401.4
25°	440.6	430.5	433.8	419.3	428.2	410.3	419.3	397.9	411.4	387.9	403.6
27.5°	439.5	430.5	437.1	423.7	431.5	415.8	424.9	405.9	417.0	392.4	408.1
30°	446.2	438.4	443.9	432.7	439.5	423.7	432.7	414.7	426.0	402.4	420.4
32.5°	454.0	446.2	451.8	441.7	451.8	436.0	447.3	429.4	442.9	419.3	436.0
35°	470.8	461.9	469.7	458.5	469.7	457.3	469.7	450.7	467.5	443.9	461.9
37.5°	514.5	489.8	497.8	485.4	496.7	481.0	502.2	483.2	502.2	479.9	504.5
40°	584.1	540.3	548.1	522.5	539.3	515.6	541.5	526.9	552.6	524.6	556.1
42.5°	674.9	633.3	625.5	586.3	600.9	572.8	598.6	572.8	607.6	580.7	619.9
45°	757.8	714.2	701.8	663.7	673.7	636.8	669.2	633.3	679.4	647.9	697.3
47.5°	826.2	774.6	764.5	720.8	738.8	704.0	744.3	706.2	762.3	731.0	788.0
50°	889.0	825.0	822.8	775.8	806.0	771.3	828.5	802.6	857.6	826.2	893.5
52.5°	960.6	880.0	891.2	848.6	896.8	867.7	933.8	896.8	968.6	935.0	1009.0
55°	1036.9	951.8	980.9	955.1	1012.3	993.3	1049.3	1015.6	1086.3	1052.6	1131.1
57.5°	1121.1	1048.1	1099.7	1087.4	1137.8	1114.3	1177.0	1146.8	1217.5	1189.4	1267.9
60°	1230.9	1182.7	1233.1	1231.9	1275.8	1274.7	1315.0	1297.1	1364.3	1351.9	1423.7
62.5°	1373.3	1335.2	1389.0	1374.4	1427.0	1418.1	1467.4	1467.4	1515.6	1532.5	1604.2
65°	1564.9	1514.5	1578.4	1556.0	1608.7	1610.9	1642.3	1647.9	1706.2	1725.3	1786.9
67.5°	1825.1	1766.8	1817.2	1774.6	1835.1	1831.7	1858.6	1869.8	1877.6	1923.7	1930.4
70°	2199.4	2112.1	2158.0	2099.7	2110.8	2118.7	2068.3	2105.3	2015.5	2088.5	1989.8
72.5°	2604.2	2504.4	2424.7	2366.5	2251.1	2234.3	2087.3	2118.7	1928.1	1990.9	1791.4
73°	2625.5	2529.0	2421.4	2360.8	2224.1	2206.1	2049.2	2076.2	1865.4	1924.8	1715.1
75°	2386.7	2412.5	2153.5	2178.1	1940.5	1968.5	1722.9	1754.4	1495.5	1540.2	1270.1
77.5°	1608.7	1695.0	1404.6	1513.4	1218.6	1327.2	994.3	1004.5	733.2	685.0	465.2
80°	797.1	871.1	617.7	674.9	452.8	445.0	271.3	225.4	191.7	196.2	201.8
82.5°	229.8	258.9	160.3	159.2	113.3	107.5	107.5	114.4	116.6	130.1	126.8
85°	43.7	52.7	45.9	61.6	55.0	60.5	56.1	64.9	60.5	75.1	64.9
87.5°	1.1	0.0	1.1	3.3	3.3	7.8	5.6	8.9	8.9	15.7	14.6
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°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	412.5	418.1	415.8	413.7	411.4	410.3	405.9	408.1	402.4	406.9	402.4
5°	403.6	410.3	406.9	402.4	400.3	397.9	390.1	395.7	386.7	394.5	387.9
7.5°	393.5	404.7	401.4	396.8	392.4	390.1	374.4	386.7	373.2	384.6	373.2
10°	390.1	402.4	397.9	392.4	387.9	385.6	366.6	381.2	366.6	378.9	364.4
12.5°	387.9	402.4	395.7	390.1	385.6	382.3	361.0	378.9	359.8	377.7	361.0
15°	385.6	402.4	393.5	386.7	382.3	378.9	356.4	376.7	355.4	375.5	356.4
17.5°	383.4	399.0	391.2	383.4	378.9	376.7	352.0	373.2	350.9	373.2	354.2
20°	380.1	395.7	386.7	378.9	374.4	371.1	346.4	368.8	345.3	367.7	346.4
22.5°	375.5	392.4	384.6	376.7	372.2	366.6	339.6	363.3	338.5	361.0	340.7
25°	376.7	394.5	384.6	376.7	369.9	364.4	335.2	361.0	332.9	355.4	332.9
27.5°	382.3	397.9	387.9	381.2	372.2	365.4	335.2	358.7	330.7	349.8	326.3
30°	393.5	409.2	400.3	390.1	382.3	373.2	340.7	359.8	330.7	343.1	319.4
32.5°	412.5	427.1	418.1	410.3	401.4	387.9	352.0	365.4	332.9	338.5	313.9
35°	437.1	455.1	450.7	445.0	433.8	410.3	371.1	373.2	337.4	334.1	306.1
37.5°	477.6	502.2	501.2	500.0	487.6	445.0	392.4	389.0	342.0	330.7	295.9
40°	530.2	559.4	567.2	575.1	549.3	486.5	417.0	404.7	344.1	324.0	280.2
42.5°	591.9	631.1	654.7	669.2	622.2	532.4	445.0	422.7	344.1	313.9	262.3
45°	668.1	714.2	759.0	774.6	702.8	581.8	474.1	437.1	339.6	298.1	238.8
47.5°	761.1	815.0	876.7	884.5	790.3	634.6	494.3	447.3	325.1	276.9	217.5
50°	864.3	929.4	1020.1	1014.5	883.3	689.4	507.8	454.0	299.3	252.2	191.7
52.5°	979.8	1061.5	1190.5	1164.7	996.6	757.8	520.2	463.0	268.0	223.0	165.8
55°	1124.4	1222.0	1383.3	1328.4	1122.2	832.9	538.1	464.2	226.5	188.4	146.9
57.5°	1280.3	1384.5	1590.7	1491.0	1239.8	891.2	530.2	428.2	185.1	159.2	132.3
60°	1467.4	1594.1	1798.0	1642.3	1338.6	911.4	475.3	353.1	158.0	143.5	125.5
62.5°	1677.0	1802.6	1968.5	1747.7	1394.6	877.7	353.1	244.4	135.6	127.8	115.4
65°	1900.2	2019.0	2050.3	1756.6	1357.6	729.9	218.6	160.3	117.7	114.4	106.4
67.5°	2105.3	2116.5	1972.9	1610.9	1178.1	508.9	149.1	127.8	108.8	107.5	103.1
70°	2158.0	1964.1	1640.0	1254.4	850.9	302.7	121.1	111.0	104.2	104.2	100.9
72.5°	1802.6	1495.5	1096.3	760.1	464.2	161.4	103.1	100.9	98.6	98.6	96.4
73°	1690.5	1377.7	981.9	663.7	392.4	144.5	100.9	98.6	97.6	96.4	95.3
75°	1123.3	865.4	557.2	336.3	182.7	104.2	89.7	89.7	88.6	89.7	88.6
77.5°	432.7	326.3	215.2	144.5	104.2	81.8	76.3	77.3	76.3	78.5	77.3
80°	190.6	188.4	142.4	102.0	76.3	61.6	61.6	61.6	62.8	63.9	63.9
82.5°	130.1	109.9	84.1	62.8	45.9	44.8	45.9	45.9	47.1	48.1	47.1
85°	71.8	60.5	44.8	28.0	24.6	30.3	30.3	30.3	29.1	29.1	28.0
87.5°	22.4	16.8	12.4	3.3	5.6	5.6	7.8	6.7	6.7	7.8	7.8
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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CATALOG NUMBER: ISC-AF-600-LED-E1-T4W-7027

CANDELA DISTRIBUTION (continued):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	406.9	403.6	406.9	401.4	405.9	401.4	404.7	404.7	403.6	403.6	403.6
5°	393.5	387.9	393.5	390.1	393.5	389.0	392.4	393.5	394.5	397.9	396.8
7.5°	383.4	372.2	384.6	373.2	383.4	373.2	382.3	383.4	386.7	391.2	394.5
10°	378.9	364.4	378.9	365.4	377.7	366.6	377.7	378.9	382.3	387.9	393.5
12.5°	376.7	361.0	376.7	363.3	376.7	365.4	376.7	380.1	382.3	386.7	393.5
15°	374.4	358.7	376.7	362.1	376.7	365.4	377.7	380.1	383.4	387.9	393.5
17.5°	373.2	355.4	374.4	361.0	374.4	363.3	376.7	376.7	381.2	386.7	390.1
20°	368.8	352.0	368.8	355.4	368.8	358.7	369.9	369.9	374.4	376.7	382.3
22.5°	362.1	344.1	359.8	347.6	359.8	349.8	358.7	358.7	362.1	365.4	368.8
25°	352.0	335.2	348.6	337.4	346.4	337.4	344.1	343.1	345.3	347.6	349.8
27.5°	340.7	324.0	335.2	322.9	328.5	319.4	324.0	321.8	322.9	324.0	325.1
30°	328.5	311.6	317.2	306.1	307.2	298.1	300.4	297.1	295.9	294.8	292.6
32.5°	315.0	297.1	297.1	285.9	283.7	275.8	275.8	271.3	268.0	263.5	258.9
35°	298.1	282.4	274.6	265.7	261.1	253.3	252.2	246.7	238.8	231.0	226.5
37.5°	281.3	263.5	252.2	243.4	238.8	233.2	232.0	227.6	218.6	209.7	202.8
40°	258.9	241.0	228.7	225.4	222.0	217.5	218.6	213.0	204.1	193.9	188.4
42.5°	236.5	220.8	210.7	209.7	207.4	206.3	207.4	202.8	192.9	183.8	177.1
45°	217.5	201.8	191.7	190.6	189.5	193.9	195.0	193.9	182.7	173.7	164.7
47.5°	198.4	179.3	172.7	170.4	171.6	178.2	180.5	183.8	173.7	163.7	151.4
50°	176.0	158.0	155.9	153.6	154.7	160.3	165.8	172.7	163.7	149.1	132.3
52.5°	155.9	140.1	141.2	139.0	141.2	145.7	150.3	161.4	150.3	135.6	127.8
55°	140.1	127.8	130.1	127.8	130.1	135.6	139.0	148.0	148.0	144.5	137.9
57.5°	128.9	119.9	122.2	119.9	123.2	127.8	131.2	150.3	161.4	152.4	139.0
60°	122.2	114.4	115.4	113.3	115.4	122.2	128.9	151.4	169.3	151.4	141.2
62.5°	112.1	105.4	104.2	104.2	106.4	117.7	121.1	141.2	167.1	150.3	142.4
65°	105.4	99.8	98.6	97.6	99.8	107.5	111.0	131.2	161.4	142.4	128.9
67.5°	102.0	97.6	95.3	93.1	95.3	102.0	105.4	123.2	152.4	135.6	121.1
70°	98.6	94.1	93.1	90.8	92.0	96.4	100.9	113.3	144.5	127.8	113.3
72.5°	94.1	89.7	88.6	85.2	86.2	90.8	93.1	106.4	134.6	119.9	105.4
73°	93.1	88.6	87.5	84.1	85.2	88.6	90.8	104.2	132.3	118.8	104.2
75°	87.5	82.9	81.8	79.6	80.7	80.7	82.9	95.3	125.5	112.1	97.6
77.5°	77.3	74.0	72.9	70.7	69.5	68.5	71.8	84.1	114.4	100.9	78.5
80°	63.9	60.5	59.4	55.0	55.0	55.0	59.4	71.8	85.2	72.9	60.5
82.5°	47.1	44.8	44.8	41.5	40.3	39.3	42.6	49.4	67.2	57.2	47.1
85°	28.0	26.9	28.0	24.6	25.8	24.6	28.0	34.8	37.0	29.1	22.4
87.5°	6.7	7.8	7.8	7.8	6.7	6.7	5.6	4.5	0.0	0.0	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):

	175°	180°
0°	417.0	417.0
2.5°	402.4	401.4
5°	396.8	396.8
7.5°	394.5	394.5
10°	395.7	395.7
12.5°	395.7	397.9
15°	399.0	397.9
17.5°	395.7	395.7
20°	386.7	389.0
22.5°	374.4	374.4
25°	354.2	355.4
27.5°	327.3	329.6
30°	293.7	295.9
32.5°	255.6	257.8
35°	225.4	226.5
37.5°	205.2	205.2
40°	188.4	188.4
42.5°	172.7	171.6
45°	156.9	154.7
47.5°	141.2	140.1
50°	127.8	127.8
52.5°	130.1	130.1
55°	140.1	140.1
57.5°	141.2	140.1
60°	153.6	152.4
62.5°	160.3	163.7
65°	140.1	135.6
67.5°	133.4	126.8
70°	119.9	109.9
72.5°	106.4	100.9
73°	103.1	98.6
75°	92.0	89.7
77.5°	69.5	68.5
80°	58.3	57.2
82.5°	39.3	37.0
85°	16.8	15.7
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)