

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: P271650

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35944)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-600-LED-E1-T4W-7027
Description: IMPACT ELITE LED TRAPEZOID 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: 3557.8 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium - Semi-Cutoff
BUG Rating: B1 - U1 - G1

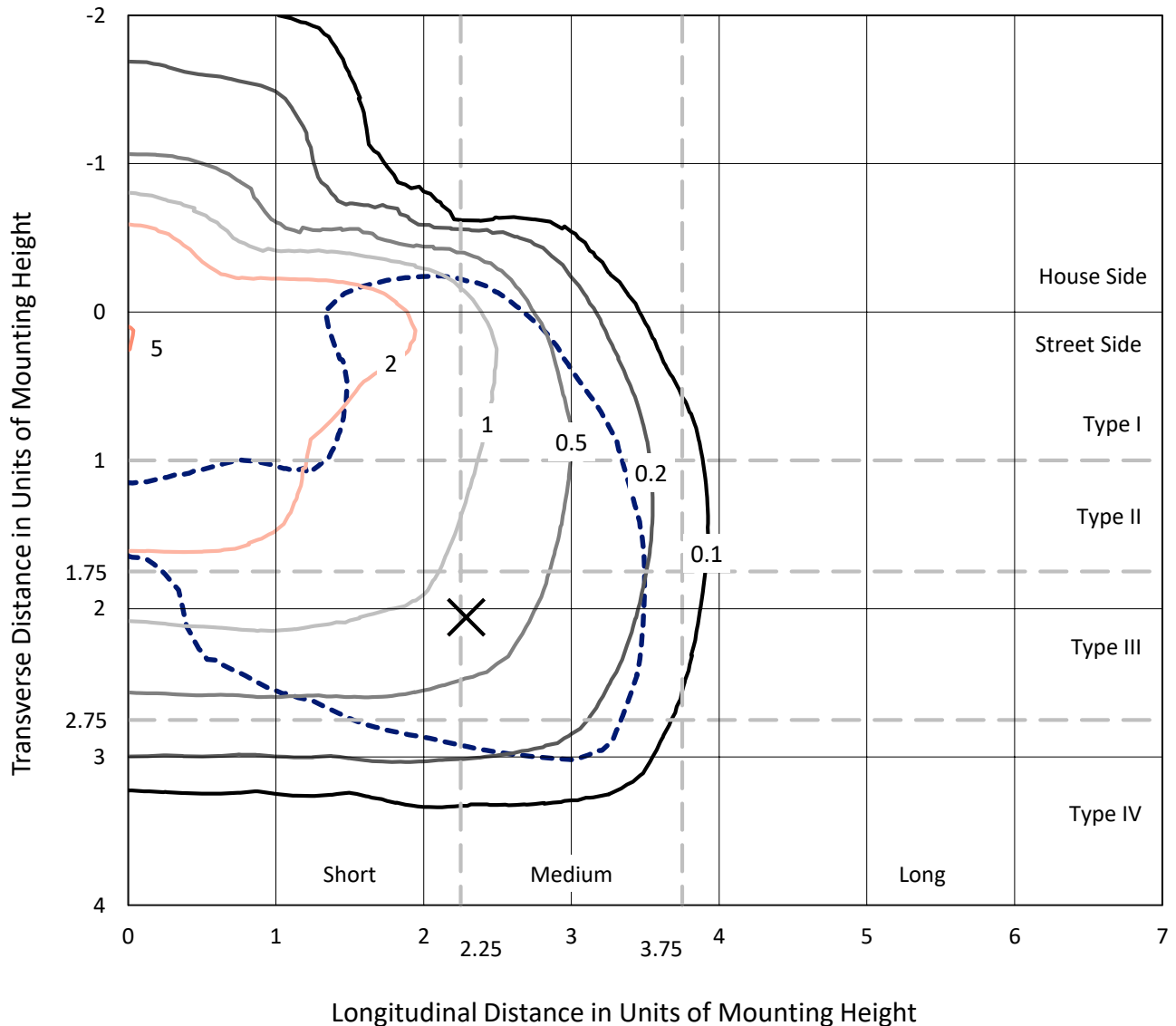
Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

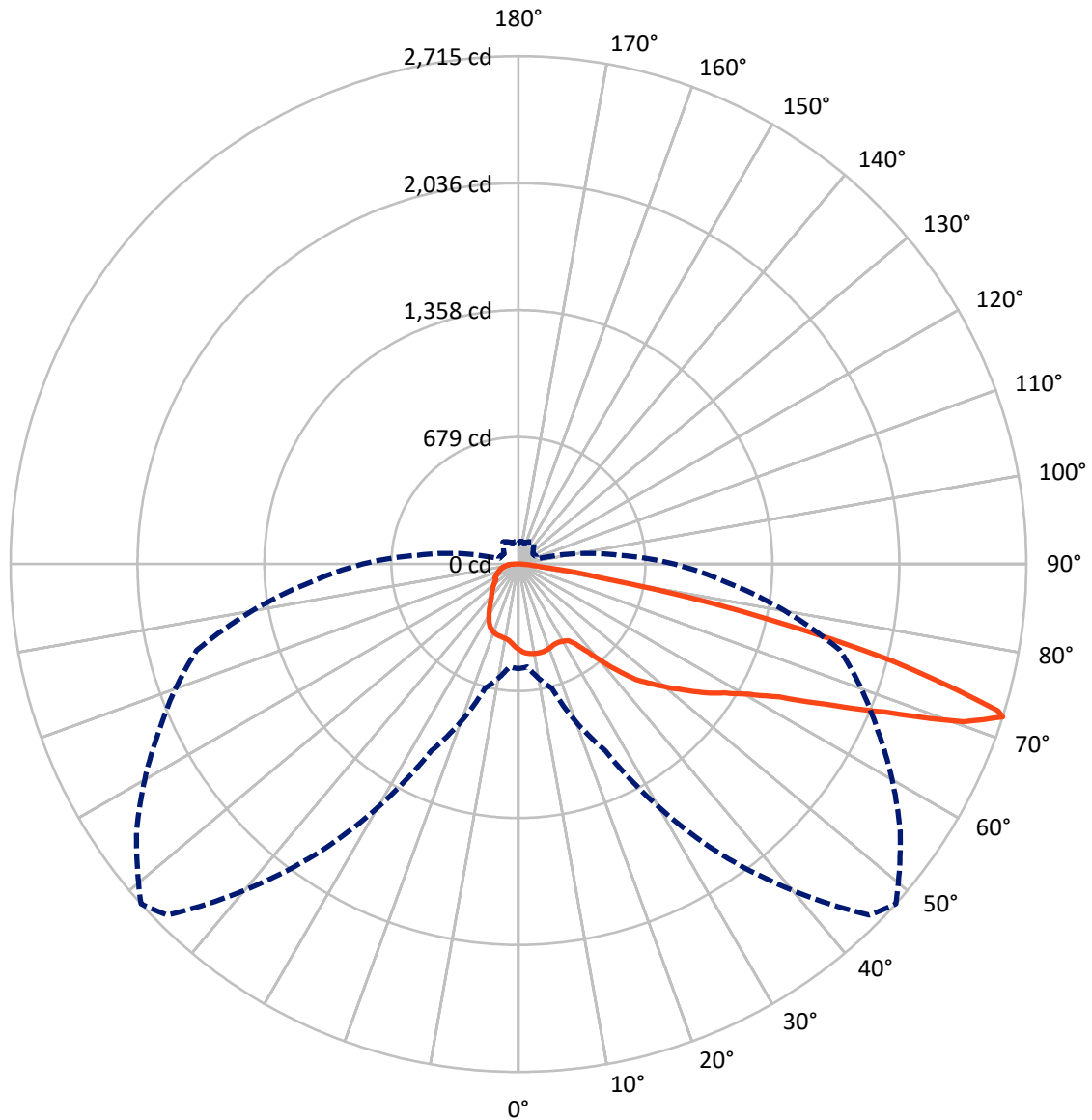
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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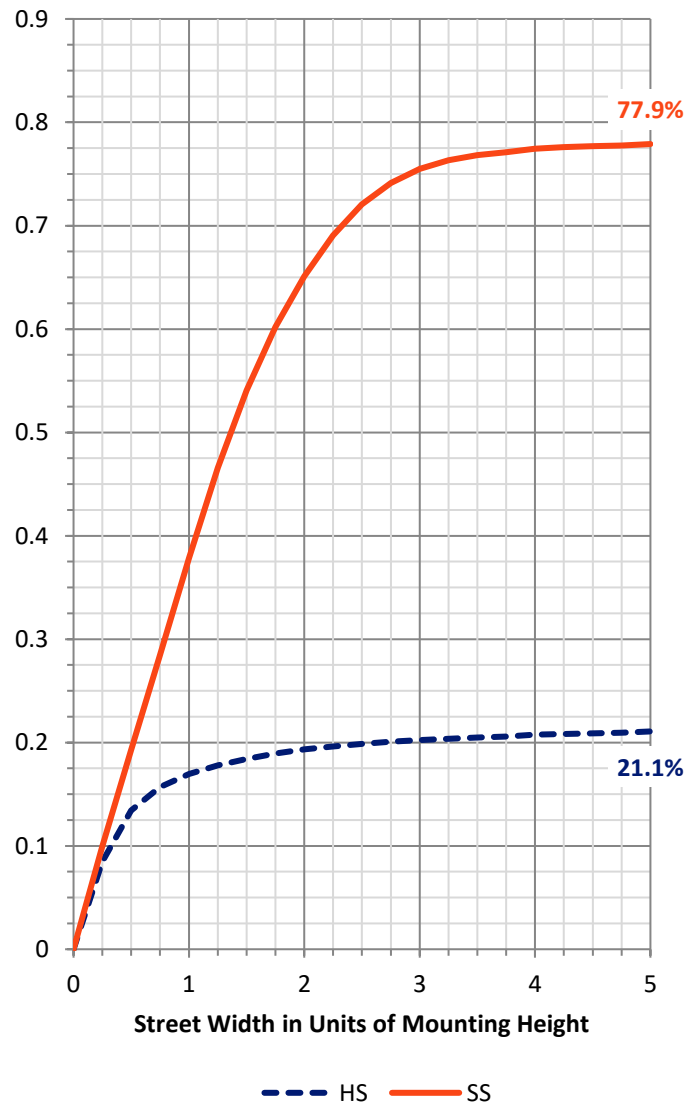
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	772.7	1.6	774.3
	% Fixture	21.7	0.0	21.8
Street Side	Lumens	2782.9	0.6	2783.4
	% Fixture	78.2	0.0	78.2
Total	Lumens	3555.6	2.2	3557.8
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	1.2
10°-20°	126.4	3.6
20°-30°	194.9	5.5
30°-40°	292.2	8.2
40°-50°	486.6	13.7
50°-60°	760.3	21.4
60°-70°	1004.3	28.2
70°-80°	581.0	16.3
80°-90°	66.6	1.9
90°-100°	2.2	0.1
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°	3555.6	99.9
0°-180°	3557.8	100.0



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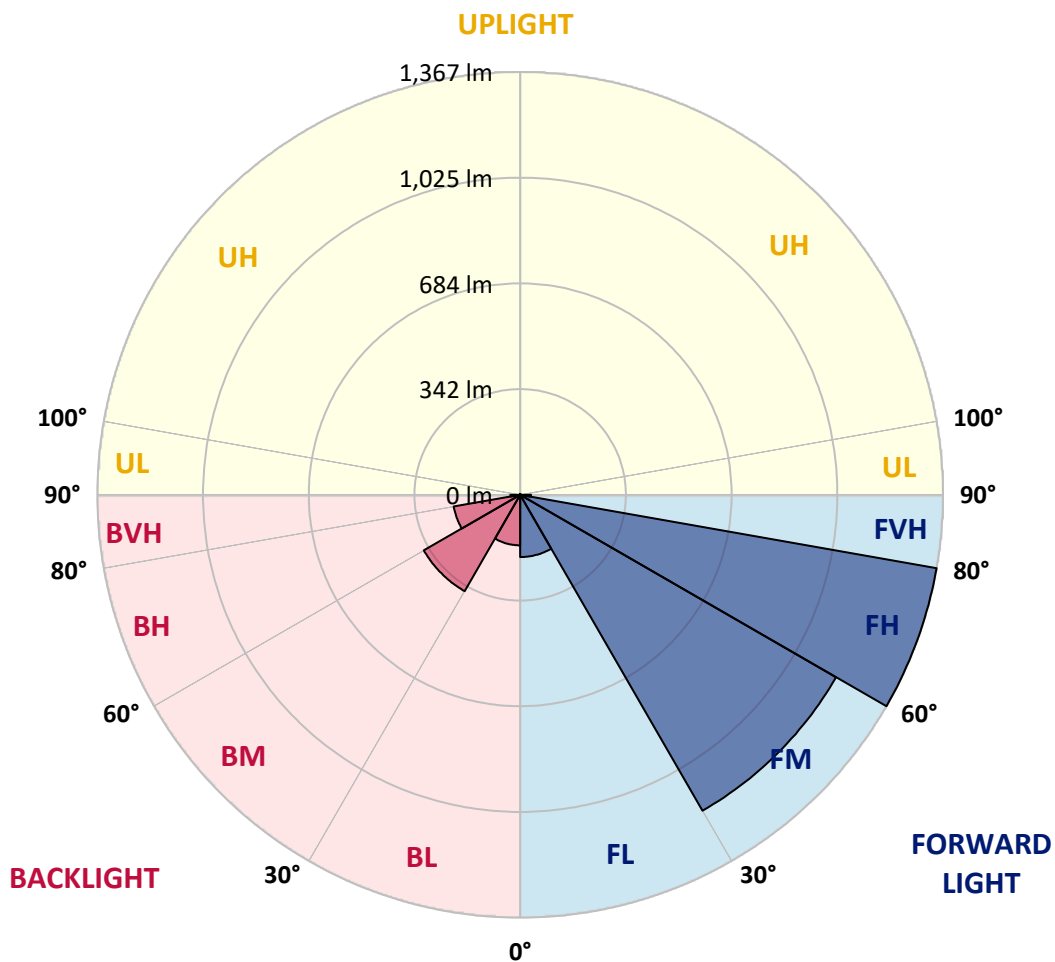
CATALOG NUMBER: IST-AF-600-LED-E1-T4W-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	201.2	5.7			
FM	(30°-60°)	1179.5	33.2			
FH	(60°-80°)	1367.3	38.4			G1/1800
FVH	(80°-90°)	35.0	1.0			G1/100
BL	(0°-30°)	163.5	4.6	B1/500		
BM	(30°-60°)	359.6	10.1	B1/1000		
BH	(60°-80°)	218.0	6.1	B1/500		G1/500
BVH	(80°-90°)	31.7	0.9			G1/100
UL	(90°-100°)	2.2	0.1		U1/10	
UH	(100°-180°)	1.6	0.0		U1/10	

BUG Rating: B1-U1-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7
2.5°	481.9	481.4	481.4	477.3	475.7	473.1	471.1	467.9	465.0	461.3	456.7
5°	505.2	506.7	504.7	498.5	490.7	482.5	479.3	472.1	462.4	453.6	445.3
7.5°	527.3	527.8	522.2	511.9	500.0	487.2	483.0	473.1	462.4	450.5	438.6
10°	543.4	543.8	535.6	521.2	505.2	490.7	486.1	476.3	462.9	449.9	435.0
12.5°	552.6	553.2	540.8	525.8	506.7	492.3	488.0	477.8	463.9	447.4	430.8
15°	551.1	552.6	542.3	525.8	505.7	492.8	487.6	478.9	461.3	444.8	427.2
17.5°	540.8	542.8	534.6	516.5	500.5	490.1	484.5	475.7	458.8	441.2	422.1
20°	520.7	523.3	519.6	502.1	491.2	483.0	479.3	471.1	455.1	437.0	417.4
22.5°	497.9	500.5	499.5	485.1	479.9	475.7	472.1	466.0	451.9	433.9	415.4
25°	481.4	483.5	481.9	469.5	471.1	471.1	469.1	464.4	451.5	435.0	415.4
27.5°	508.8	508.8	495.3	470.0	467.5	472.1	471.1	468.6	458.2	440.2	419.5
30°	608.9	601.1	576.9	513.4	481.0	478.9	478.3	476.8	467.5	451.5	432.4
32.5°	720.9	713.2	684.1	604.8	537.2	492.8	488.0	488.7	486.1	471.1	451.9
35°	820.4	819.4	796.7	710.5	624.3	541.8	523.3	510.9	509.8	503.6	488.7
37.5°	900.9	900.9	903.0	804.9	718.7	619.7	588.2	549.0	549.0	545.5	536.1
40°	992.8	996.8	1001.6	890.6	820.0	712.5	677.1	617.7	599.6	605.3	607.3
42.5°	1113.4	1118.7	1115.5	996.4	912.3	823.6	779.7	708.0	663.6	672.9	694.5
45°	1195.0	1197.1	1219.3	1106.8	1028.4	917.5	880.2	781.7	737.9	757.0	795.2
47.5°	1287.5	1292.6	1296.2	1232.3	1164.7	1023.8	955.7	853.5	825.0	854.0	914.4
50°	1377.7	1371.0	1380.9	1378.2	1293.6	1118.2	1037.1	920.5	922.6	961.8	1060.9
52.5°	1456.2	1433.4	1456.2	1484.4	1459.7	1215.1	1120.7	999.5	1029.4	1077.3	1233.7
55°	1516.5	1461.8	1500.0	1580.5	1574.8	1300.8	1216.2	1104.7	1154.8	1220.3	1443.8
57.5°	1393.2	1399.9	1505.2	1645.0	1642.4	1387.5	1299.8	1236.3	1297.7	1371.0	1692.5
60°	1278.1	1308.0	1470.5	1655.4	1689.4	1481.9	1412.2	1385.9	1442.8	1532.0	1930.9
62.5°	1217.2	1245.6	1414.3	1636.3	1764.2	1621.8	1563.5	1543.4	1620.7	1720.8	2143.4
65°	1236.3	1253.9	1410.8	1665.1	1850.4	1833.4	1808.1	1774.5	1813.2	1907.1	2239.5
67.5°	1182.7	1211.5	1380.9	1716.2	2007.7	2091.3	2112.5	2076.4	2043.8	2031.0	2099.6
70°	880.2	908.2	1085.6	1505.2	2136.8	2539.1	2526.3	2405.6	2186.8	2004.2	1640.3
72°	559.4	551.6	687.3	1102.7	1899.4	2654.3	2715.1	2491.8	2121.8	1779.7	1114.1
72.5°	406.7	443.2	570.2	980.4	1804.4	2591.3	2680.1	2463.9	2036.6	1681.1	979.9
75°	99.0	104.7	136.7	351.3	1056.8	1950.0	2061.4	1903.5	1486.5	997.9	434.5
77.5°	67.0	69.7	90.3	123.9	310.6	1112.0	1223.4	1051.1	665.1	339.5	193.6
80°	50.0	51.7	65.6	87.8	129.0	379.3	447.4	355.5	165.6	188.4	137.8
82.5°	35.0	36.1	49.6	64.5	85.7	88.8	118.1	130.5	107.3	123.3	80.5
85°	24.3	24.3	36.1	44.4	54.2	43.8	46.9	65.6	72.8	73.3	49.0
87.5°	12.8	14.5	21.2	28.4	28.4	20.1	22.2	33.6	40.7	43.8	29.5
90°	4.6	4.6	8.7	10.8	6.6	5.2	4.6	6.6	9.8	13.9	9.3
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	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):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7
2.5°	455.6	452.6	448.4	446.4	445.3	443.2	441.2	440.2	440.2	438.0	438.6
5°	441.2	436.6	430.8	426.8	426.2	426.2	427.2	427.2	427.8	426.2	428.3
7.5°	433.9	428.9	420.6	415.8	412.3	411.7	413.8	417.9	420.0	418.5	420.6
10°	428.9	423.1	413.8	408.2	405.6	404.6	406.1	410.3	416.9	416.9	419.0
12.5°	423.6	416.5	407.1	403.0	400.9	401.5	403.5	406.7	413.8	416.5	417.4
15°	418.5	410.3	402.5	396.8	396.8	398.4	400.9	404.6	411.2	415.8	416.9
17.5°	413.3	405.0	398.4	393.6	393.6	395.7	398.4	403.0	407.7	414.4	414.4
20°	408.7	401.9	393.2	389.1	388.6	390.1	393.2	397.8	401.5	408.2	408.7
22.5°	406.1	397.8	389.5	383.4	380.8	379.7	382.9	387.5	391.1	397.8	398.8
25°	405.0	395.7	385.5	374.1	367.4	365.3	366.9	372.5	375.6	380.8	382.4
27.5°	408.7	399.8	383.8	363.3	349.4	343.6	345.2	348.8	349.8	355.5	358.2
30°	421.0	410.7	387.0	352.0	326.6	316.3	316.3	316.8	318.4	323.0	323.5
32.5°	441.2	431.4	396.3	340.1	303.4	289.0	285.3	282.8	282.8	282.2	282.8
35°	478.3	470.0	412.3	326.6	278.1	262.1	253.3	248.7	244.1	242.0	241.5
37.5°	532.0	524.8	435.0	311.2	255.9	239.9	229.1	219.8	214.7	214.2	216.7
40°	611.9	604.8	460.3	293.6	234.7	222.9	211.6	201.8	196.1	196.5	199.2
42.5°	710.5	688.3	487.6	269.9	217.7	211.6	199.2	190.9	185.2	182.2	181.6
45°	825.6	788.4	513.4	247.8	199.2	201.8	189.9	180.6	173.4	165.1	164.1
47.5°	969.0	888.5	536.1	225.5	179.0	191.4	180.1	171.3	160.4	150.6	149.1
50°	1118.7	1003.7	555.7	201.8	161.0	180.1	170.3	158.4	143.5	134.7	134.7
52.5°	1291.5	1141.8	581.0	175.3	147.1	167.7	157.9	142.4	130.1	129.0	129.0
55°	1484.0	1286.9	598.6	154.8	136.3	154.3	149.7	145.0	140.9	141.9	142.4
57.5°	1685.2	1438.1	583.1	140.3	127.5	151.2	164.6	158.4	145.5	145.0	144.4
60°	1858.6	1555.8	497.4	131.1	120.7	156.3	176.4	158.4	145.5	152.3	152.7
62.5°	1972.2	1611.5	331.3	119.1	110.9	147.6	172.4	153.8	146.1	165.1	166.6
65°	1956.7	1549.0	190.4	110.9	104.7	135.7	166.6	148.1	136.3	147.1	144.0
67.5°	1726.0	1298.2	137.8	107.3	100.1	127.5	156.3	139.9	126.9	140.3	134.7
70°	1240.5	883.9	118.7	104.2	96.9	117.7	149.1	134.7	121.8	131.1	122.3
72°	832.3	537.6	108.9	101.7	94.0	111.5	144.0	130.5	117.0	122.3	112.5
72.5°	708.4	424.2	106.3	100.6	92.9	110.0	142.4	129.5	116.2	121.2	112.0
75°	264.7	166.2	94.4	92.9	85.7	102.1	136.3	124.9	110.9	109.4	105.2
77.5°	136.3	105.2	80.5	82.0	76.9	93.4	129.5	117.7	102.1	96.5	94.4
80°	99.0	76.4	64.9	69.7	65.6	84.1	120.2	106.8	92.9	86.7	84.1
82.5°	62.4	47.5	49.6	55.2	55.8	74.3	109.4	96.0	82.6	77.4	73.3
85°	29.9	28.4	35.0	40.7	44.8	62.9	100.1	85.1	72.2	61.9	62.4
87.5°	16.0	21.6	21.2	27.4	34.6	51.7	88.8	69.7	57.9	46.4	46.9
90°	3.6	5.7	6.2	10.8	13.9	22.2	57.3	39.7	38.6	16.5	14.5
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	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: IST-AF-600-LED-E1-T4W-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)