

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: P226465

Luminaire Tested: **IST-AF-600-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35938)
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-T3-7030
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3630.2 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B1 - U1 - G1

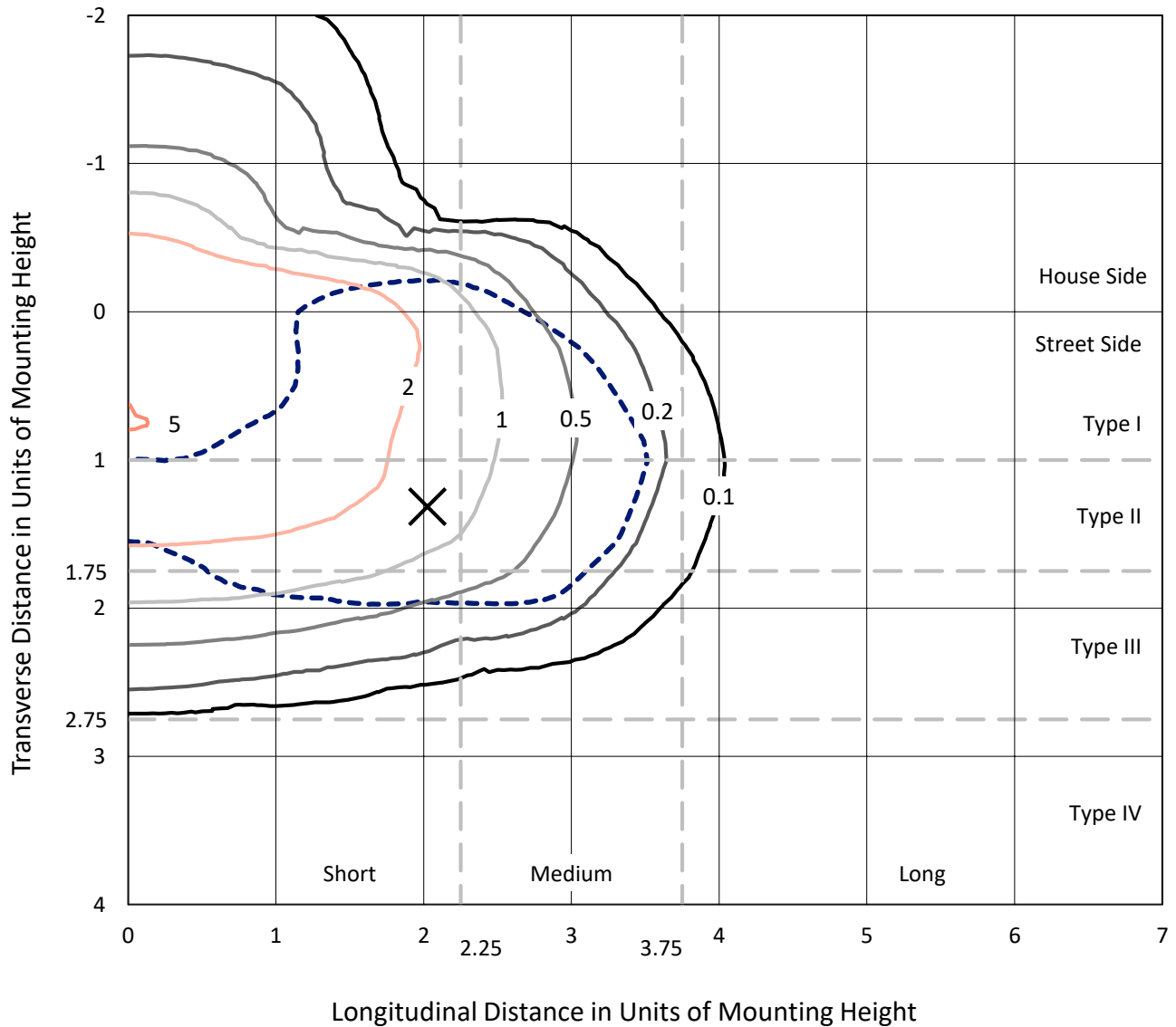
Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

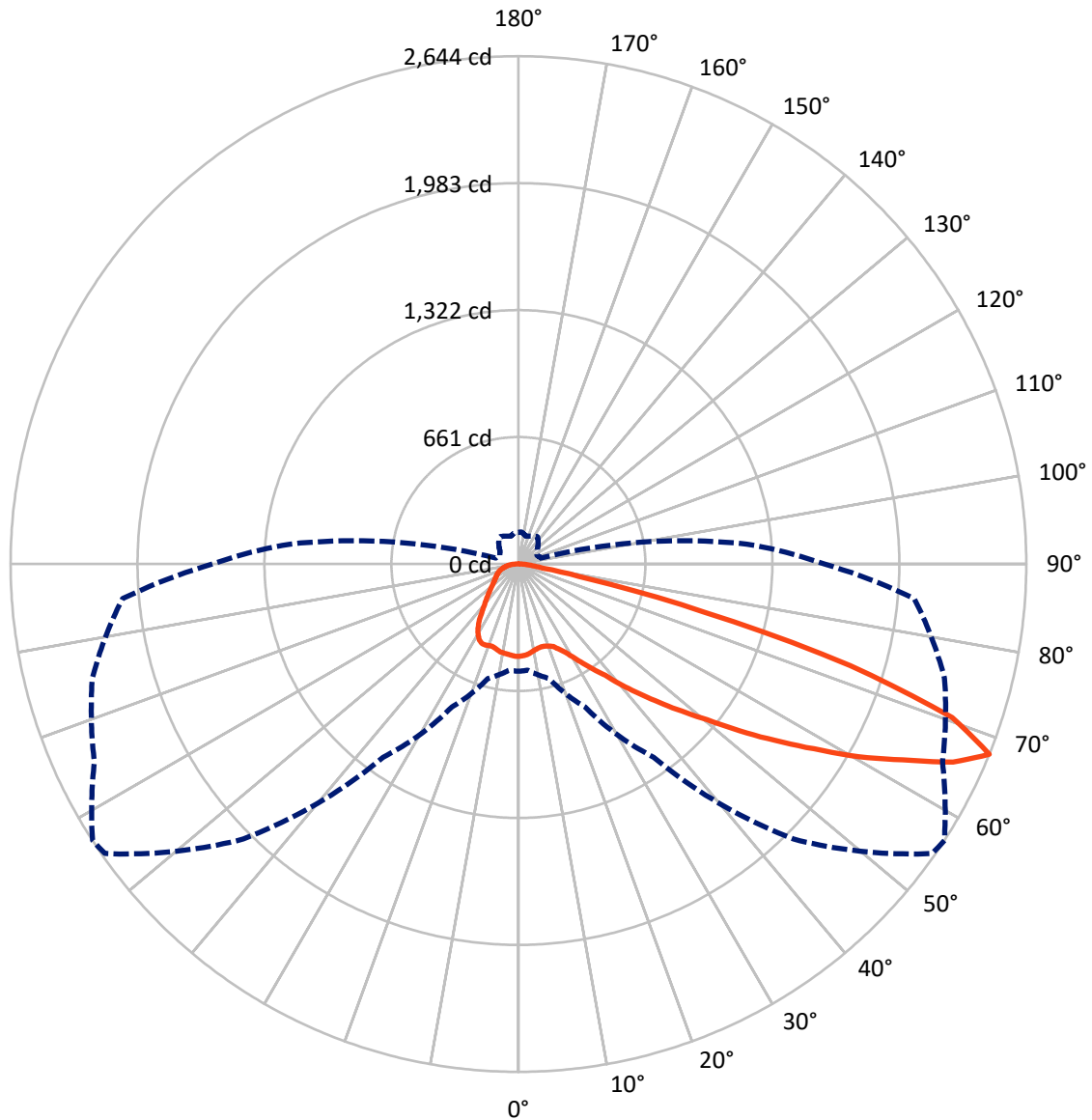
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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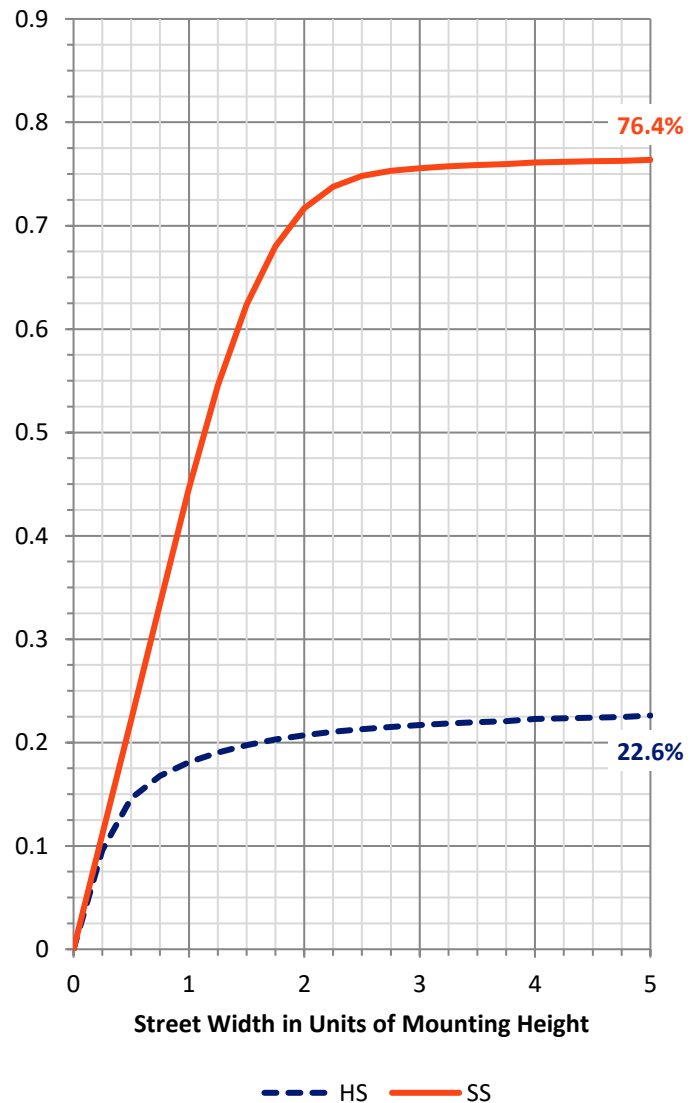
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	844.8	1.1	845.8
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	2784.0	0.3	2784.3
	% Fixture	76.7	0.0	76.7
Total	Lumens	3628.8	1.4	3630.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	1.2
10°-20°	129.3	3.6
20°-30°	222.6	6.1
30°-40°	361.8	10.0
40°-50°	583.6	16.1
50°-60°	870.1	24.0
60°-70°	980.0	27.0
70°-80°	377.8	10.4
80°-90°	58.5	1.6
90°-100°	1.4	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°	3628.8	100.0
0°-180°	3630.2	100.0



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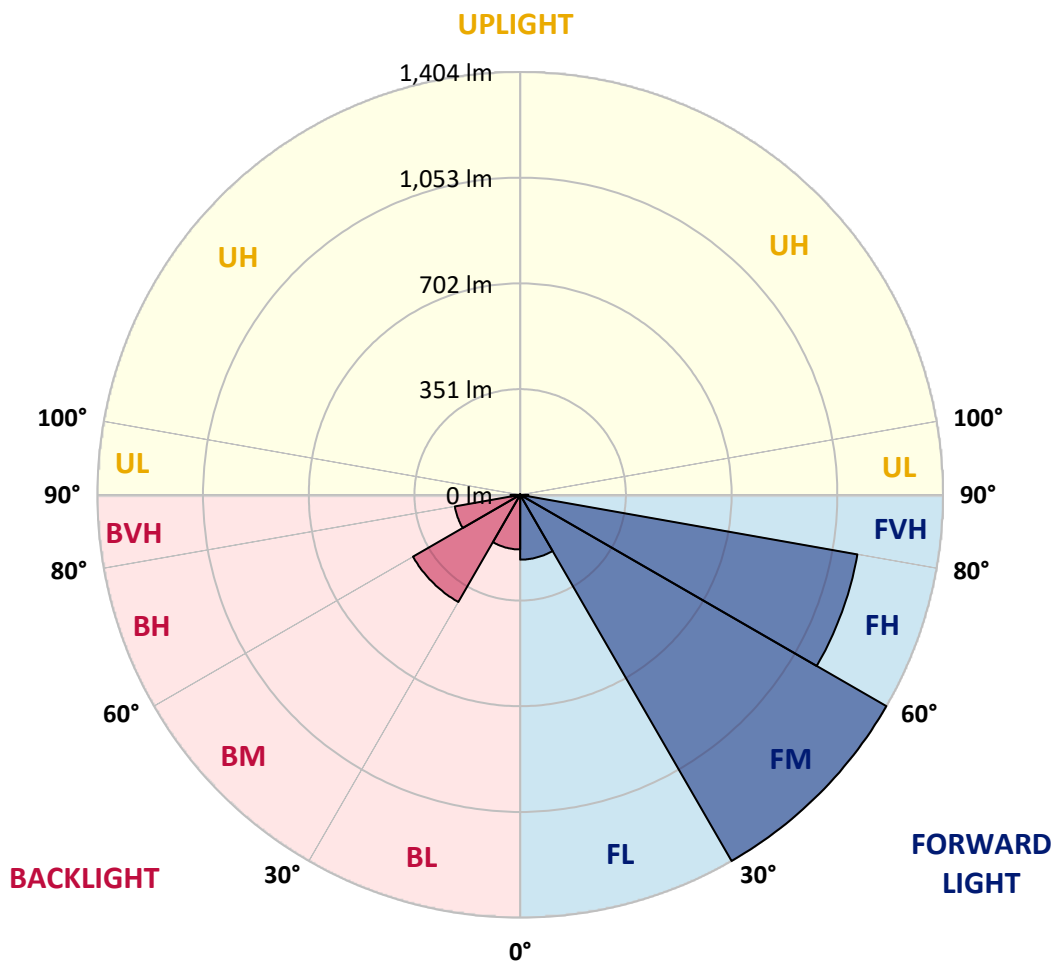
CATALOG NUMBER: IST-AF-600-LED-E1-T3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	215.3	5.9			
FM	(30°-60°)	1404.4	38.7			
FH	(60°-80°)	1137.4	31.3			G1/1800
FVH	(80°-90°)	26.9	0.7			G1/100
BL	(0°-30°)	181.5	5.0	B1/500		
BM	(30°-60°)	411.2	11.3	B1/1000		
BH	(60°-80°)	220.4	6.1	B1/500		G1/500
BVH	(80°-90°)	31.7	0.9			G1/100
UL	(90°-100°)	1.4	0.0		U1/10	
UH	(100°-180°)	1.1	0.0		U1/10	

BUG Rating: B1-U1-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1
2.5°	477.4	478.4	479.5	479.0	479.0	479.0	479.0	477.9	479.5	479.5	478.4
5°	469.5	470.0	470.5	471.6	472.7	473.7	474.2	474.2	474.8	474.2	473.2
7.5°	457.9	458.5	460.6	460.6	461.6	463.7	464.8	465.8	467.4	467.4	466.9
10°	454.2	454.2	454.2	452.7	453.7	454.2	455.8	455.8	460.0	462.1	463.2
12.5°	458.5	457.9	457.9	453.7	450.0	448.5	450.0	450.6	455.3	458.5	460.6
15°	467.9	467.9	466.9	460.6	453.2	447.4	446.9	446.9	450.6	455.3	459.0
17.5°	490.0	492.1	484.7	474.8	462.7	453.2	449.5	449.0	451.6	455.3	459.0
20°	532.1	531.5	520.5	502.6	481.6	465.8	456.9	455.8	455.3	457.4	461.6
22.5°	582.0	579.9	566.8	544.2	515.2	486.3	469.0	466.9	462.7	464.2	470.0
25°	635.6	636.2	619.9	590.4	554.1	519.4	493.2	491.1	482.1	481.1	487.4
27.5°	689.3	696.1	674.0	646.1	603.0	561.5	523.1	520.0	512.1	509.5	515.8
30°	767.6	765.0	737.6	701.4	658.2	606.2	569.4	563.6	547.8	551.5	558.3
32.5°	833.8	839.6	814.9	771.8	715.0	660.3	617.8	614.6	599.4	603.6	613.0
35°	914.8	928.5	895.9	842.8	788.1	731.8	680.8	672.4	660.3	668.8	676.1
37.5°	1007.3	1014.2	988.9	920.6	864.9	806.0	748.1	735.0	721.9	739.2	752.4
40°	1095.7	1106.7	1074.1	1016.3	951.6	895.4	832.3	829.6	799.1	818.1	852.2
42.5°	1226.6	1240.2	1188.2	1120.9	1062.5	994.7	934.8	920.6	887.5	914.3	971.6
45°	1318.1	1317.5	1282.3	1226.6	1190.8	1125.1	1044.1	1027.3	991.6	1027.3	1104.1
47.5°	1351.2	1359.1	1347.0	1340.1	1327.5	1279.7	1160.3	1144.6	1110.9	1164.0	1235.0
50°	1400.1	1398.0	1398.0	1440.0	1476.3	1466.3	1296.5	1273.9	1238.7	1302.3	1404.3
52.5°	1412.7	1393.8	1423.2	1503.7	1618.8	1627.2	1454.8	1442.1	1400.1	1462.1	1587.8
55°	1377.5	1372.7	1419.5	1536.2	1717.6	1777.6	1638.2	1620.9	1573.6	1626.7	1786.0
57.5°	1298.6	1310.7	1385.9	1529.4	1786.0	1910.1	1839.6	1814.9	1747.1	1779.1	1982.6
60°	1216.1	1221.8	1321.2	1505.2	1804.4	2002.1	2051.0	2036.8	1920.6	1939.5	2128.2
62.5°	1124.6	1110.9	1214.0	1485.3	1783.9	2128.8	2256.0	2245.0	2107.7	2102.0	2231.8
65°	869.1	888.0	975.8	1227.6	1643.5	2227.6	2500.5	2486.3	2316.5	2236.0	2220.8
67.5°	558.3	554.7	616.7	820.7	1228.2	2024.7	2628.2	2644.0	2435.8	2296.5	2068.3
70°	200.3	206.1	229.2	372.8	673.5	1349.1	2317.0	2395.3	2348.0	2183.4	1683.5
72.5°	122.0	122.0	138.8	167.7	272.9	639.8	1651.4	1806.5	1916.4	1799.1	1243.4
75°	95.7	95.2	100.9	115.7	147.2	209.8	878.0	997.9	1229.2	1242.9	707.7
77.5°	75.7	75.2	81.0	87.8	109.9	110.9	280.2	364.9	564.1	531.0	252.9
80°	61.0	60.5	64.7	66.8	80.4	76.8	112.5	130.4	197.7	173.5	109.4
82.5°	55.2	55.2	59.4	51.0	55.7	54.2	69.9	74.7	99.4	103.0	65.7
85°	35.8	36.8	55.7	49.4	36.3	33.1	44.7	47.3	62.0	67.8	32.1
87.5°	16.8	18.4	42.6	41.0	24.2	17.9	25.2	26.8	33.6	41.5	18.9
90°	3.2	3.2	5.3	5.8	3.2	3.2	4.2	3.7	3.7	5.3	5.3
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
110°	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°	55°	57°	65°	75°	85°
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°	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1
2.5°	480.0	479.0	479.5	480.0	480.5	482.1	482.6	482.6	482.6	482.1	483.2
5°	474.2	473.2	473.2	474.8	476.3	478.4	481.6	484.2	485.3	485.8	485.8
7.5°	467.9	466.9	467.4	470.0	472.7	474.2	477.4	479.0	483.2	483.2	484.2
10°	463.7	464.8	465.3	467.9	470.0	470.0	469.5	468.4	467.4	470.0	469.0
12.5°	461.1	462.7	462.1	465.3	466.3	462.1	455.8	447.4	446.4	447.4	448.5
15°	460.0	460.0	461.6	461.6	456.4	447.9	440.1	440.6	441.6	444.8	444.8
17.5°	460.0	460.6	461.6	457.9	448.5	441.1	439.5	438.0	432.2	430.6	429.0
20°	463.7	462.7	463.7	456.9	448.5	442.7	430.6	419.0	408.0	403.3	401.1
22.5°	472.7	471.1	470.5	463.7	453.2	433.7	410.1	392.2	373.3	367.0	364.9
25°	488.4	487.9	484.2	479.5	450.0	412.2	382.2	353.8	333.3	322.3	322.8
27.5°	516.3	516.3	514.2	493.2	433.7	385.4	344.9	316.0	294.9	284.4	282.9
30°	558.3	559.4	560.5	496.8	408.0	345.9	303.9	284.4	271.8	263.9	263.4
32.5°	610.4	616.2	609.3	492.6	372.8	298.1	271.8	265.0	258.7	253.4	252.9
35°	679.3	695.0	651.9	475.8	333.3	265.5	252.4	247.6	242.9	239.2	239.7
37.5°	771.8	787.1	679.3	447.4	282.9	247.1	241.3	234.0	226.6	218.7	217.7
40°	881.2	876.4	688.7	393.8	251.3	238.2	230.3	220.8	208.2	196.6	194.5
42.5°	990.5	959.0	680.8	327.5	230.8	230.3	219.2	207.1	194.5	184.5	184.5
45°	1113.0	1031.5	656.7	265.5	214.5	221.9	208.2	195.6	184.0	176.7	176.1
47.5°	1228.7	1099.3	616.7	221.3	198.2	210.8	199.8	188.2	177.2	170.9	169.3
50°	1364.3	1176.6	586.2	191.4	182.4	199.8	195.1	184.5	174.0	166.7	165.6
52.5°	1501.5	1251.8	563.1	170.9	168.2	191.4	193.0	186.6	175.6	161.4	160.4
55°	1645.1	1345.9	516.8	154.6	155.6	185.1	195.6	190.8	183.0	159.8	158.8
57.5°	1765.5	1432.7	435.8	143.5	145.6	180.3	196.6	187.7	178.8	160.9	159.3
60°	1859.6	1492.1	319.7	134.6	136.7	175.1	191.9	176.7	165.1	160.9	158.3
62.5°	1888.5	1494.2	212.4	124.1	129.9	166.1	183.5	170.9	157.2	159.3	158.3
65°	1815.9	1415.3	151.9	114.1	124.1	155.6	179.8	165.1	153.5	161.9	160.9
67.5°	1592.5	1192.4	122.0	106.2	116.2	144.6	173.0	159.8	150.4	167.7	164.6
70°	1240.8	855.4	103.6	98.3	107.8	134.1	163.5	154.0	146.2	163.0	158.8
72.5°	818.1	503.7	91.5	91.0	97.8	125.1	153.0	148.8	139.3	147.7	141.4
75°	426.9	233.4	79.4	82.5	86.7	117.2	143.5	139.3	128.8	132.0	129.9
77.5°	167.7	109.4	68.9	72.6	77.3	105.7	131.4	127.2	118.3	115.7	115.1
80°	92.0	73.6	57.3	62.0	65.2	95.2	118.8	114.1	104.6	103.0	101.5
82.5°	58.4	47.8	47.3	50.5	54.7	84.6	106.7	99.4	91.5	107.8	87.3
85°	27.3	28.4	33.6	37.9	42.6	72.0	93.1	85.2	77.3	75.2	66.8
87.5°	15.2	18.9	22.1	25.8	29.4	50.5	73.6	66.2	57.8	49.4	51.0
90°	3.7	3.7	6.3	5.8	6.3	7.4	36.3	32.6	28.9	13.7	8.9
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
110°	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-T3-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
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)