

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: P226461

Luminaire Tested: **IST-AF-1200-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226461
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-1200-LED-E1-T3-8030
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5634.5 lumens
Efficiency: N/A
Efficacy: 85.4 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

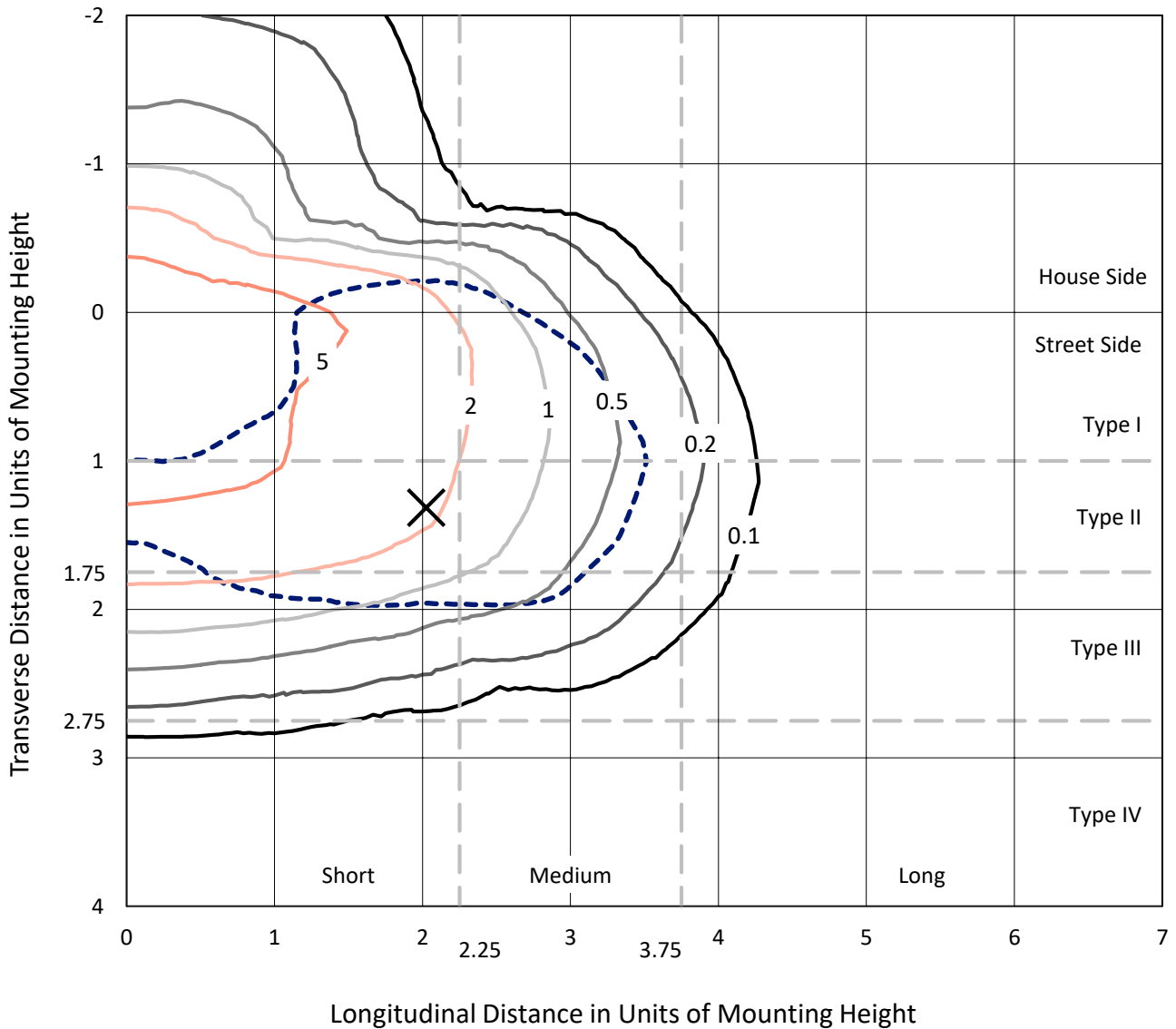
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

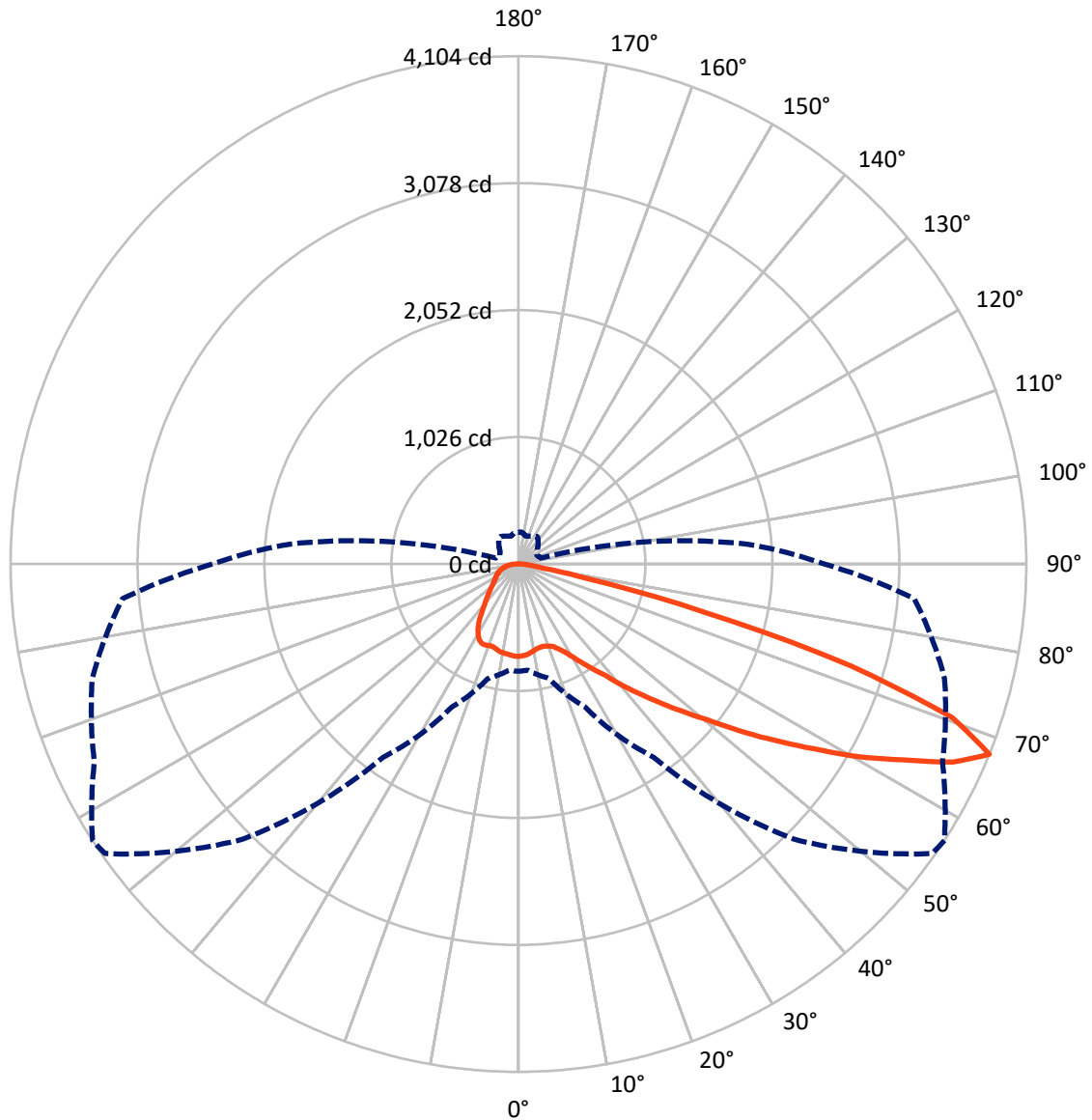
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 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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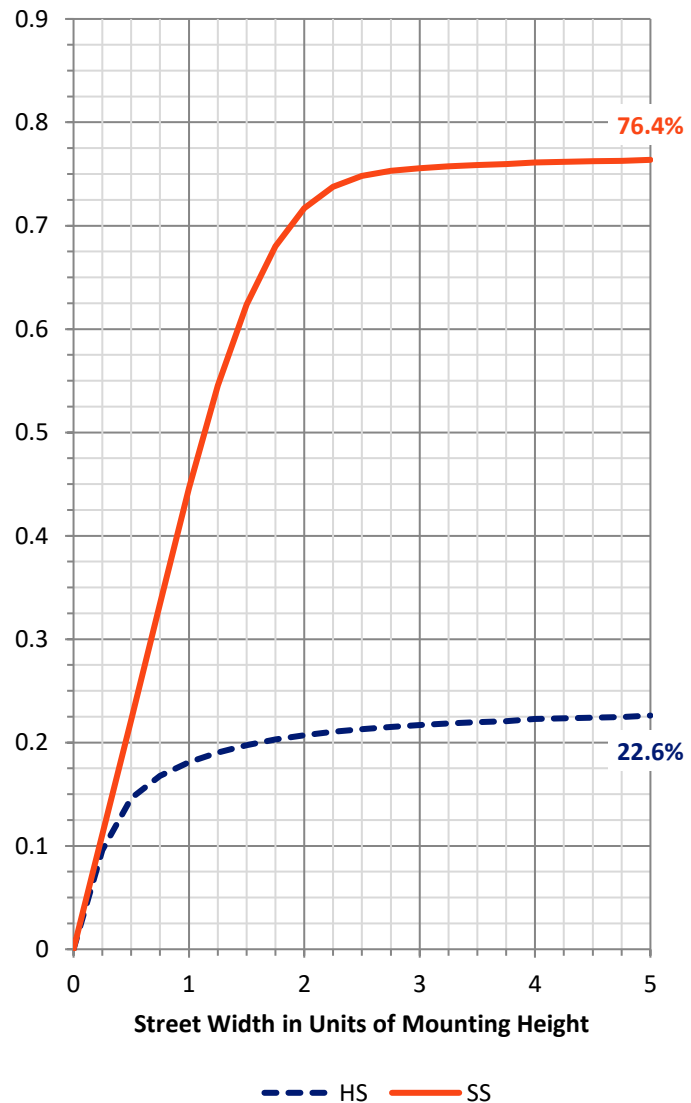
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1311.2	1.7	1312.9
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	4321.2	0.5	4321.6
	% Fixture	76.7	0.0	76.7
Total	Lumens	5632.4	2.1	5634.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	1.2
10°-20°	200.7	3.6
20°-30°	345.4	6.1
30°-40°	561.6	10.0
40°-50°	905.9	16.1
50°-60°	1350.6	24.0
60°-70°	1521.1	27.0
70°-80°	586.4	10.4
80°-90°	90.9	1.6
90°-100°	2.1	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°	5632.4	100.0
0°-180°	5634.5	100.0



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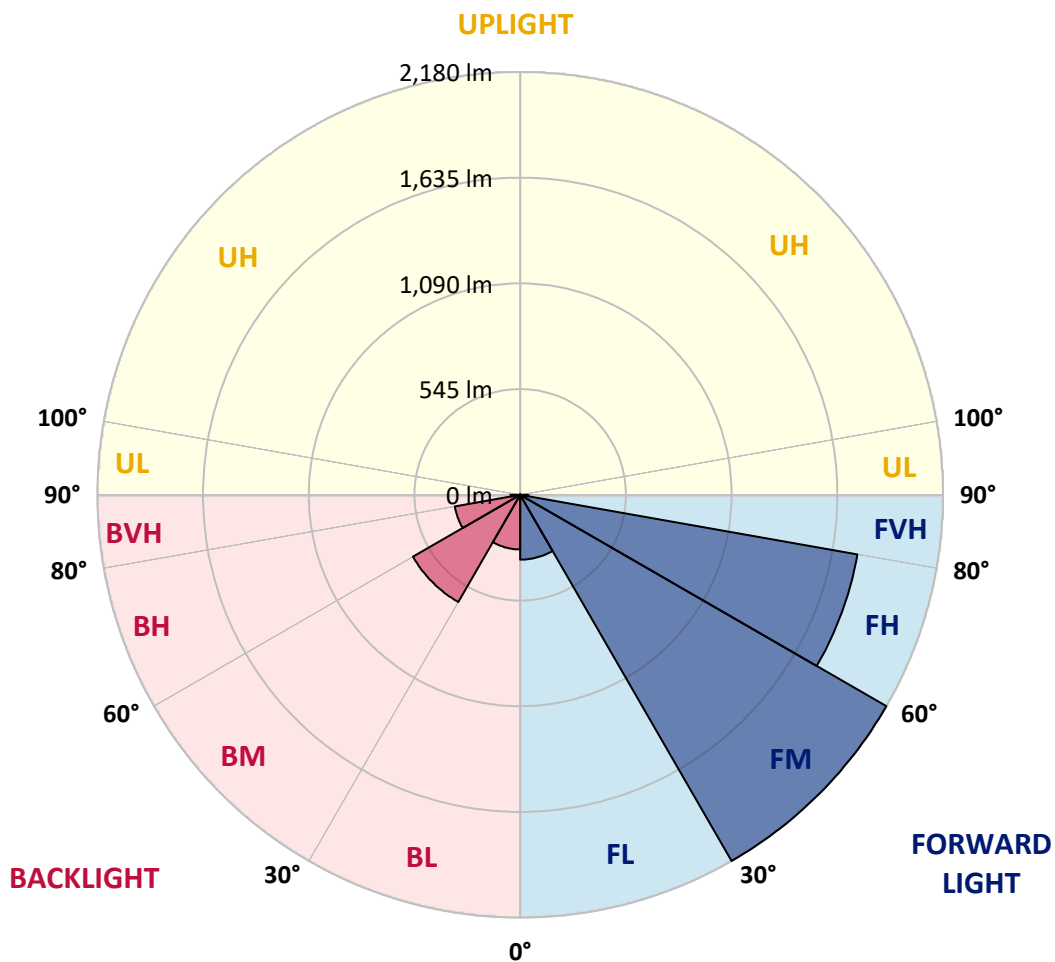
CATALOG NUMBER: IST-AF-1200-LED-E1-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.2	5.9			
FM	(30°-60°)	2179.9	38.7			
FH	(60°-80°)	1765.3	31.3			G1/1800
FVH	(80°-90°)	41.7	0.7			G1/100
BL	(0°-30°)	281.7	5.0	B1/500		
BM	(30°-60°)	638.2	11.3	B1/1000		
BH	(60°-80°)	342.1	6.1	B1/500		G1/500
BVH	(80°-90°)	49.2	0.9			G1/100
UL	(90°-100°)	2.1	0.0		U1/10	
UH	(100°-180°)	1.7	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°	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7
2.5°	741.0	742.6	744.2	743.4	743.4	743.4	743.4	741.8	744.2	744.2	742.6
5°	728.7	729.5	730.4	732.0	733.6	735.3	736.1	736.1	736.9	736.1	734.4
7.5°	710.8	711.6	714.8	714.8	716.5	719.7	721.4	723.0	725.5	725.5	724.6
10°	705.1	705.1	705.1	702.6	704.2	705.1	707.5	707.5	714.0	717.3	718.9
12.5°	711.6	710.8	710.8	704.2	698.5	696.1	698.5	699.3	706.7	711.6	714.8
15°	726.3	726.3	724.6	714.8	703.4	694.4	693.6	693.6	699.3	706.7	712.4
17.5°	760.5	763.8	752.4	736.9	718.1	703.4	697.7	696.9	701.0	706.7	712.4
20°	825.8	825.0	807.9	780.1	747.5	723.0	709.1	707.5	706.7	710.0	716.5
22.5°	903.4	900.1	879.7	844.6	799.7	754.8	727.9	724.6	718.1	720.6	729.5
25°	986.6	987.4	962.1	916.4	860.1	806.2	765.4	762.2	748.3	746.7	756.5
27.5°	1069.8	1080.4	1046.2	1002.9	936.0	871.5	812.0	807.1	794.8	790.7	800.5
30°	1191.4	1187.3	1144.9	1088.6	1021.7	940.9	883.8	874.8	850.3	856.0	866.6
32.5°	1294.2	1303.2	1264.9	1197.9	1109.8	1024.9	958.8	953.9	930.3	936.8	951.5
35°	1419.9	1441.1	1390.5	1308.1	1223.2	1135.9	1056.8	1043.7	1024.9	1038.0	1049.4
37.5°	1563.5	1574.1	1535.0	1428.9	1342.4	1251.0	1161.2	1140.8	1120.4	1147.3	1167.8
40°	1700.6	1717.8	1667.2	1577.4	1477.0	1389.7	1291.8	1287.7	1240.4	1269.8	1322.8
42.5°	1903.8	1925.0	1844.2	1739.8	1649.2	1543.9	1450.9	1428.9	1377.5	1419.1	1508.0
45°	2045.8	2045.0	1990.3	1903.8	1848.3	1746.3	1620.7	1594.5	1539.0	1594.5	1713.7
47.5°	2097.2	2109.5	2090.7	2080.1	2060.5	1986.2	1801.0	1776.5	1724.3	1806.7	1916.9
50°	2173.1	2169.8	2169.8	2235.1	2291.4	2275.9	2012.3	1977.3	1922.6	2021.3	2179.6
52.5°	2192.7	2163.3	2209.0	2333.9	2512.6	2525.6	2258.0	2238.4	2173.1	2269.4	2464.4
55°	2138.0	2130.7	2203.3	2384.5	2666.0	2759.0	2542.8	2515.8	2442.4	2524.8	2772.1
57.5°	2015.6	2034.4	2151.1	2373.9	2772.1	2964.7	2855.3	2817.0	2711.7	2761.5	3077.3
60°	1887.5	1896.5	2050.7	2336.3	2800.6	3107.5	3183.4	3161.3	2981.0	3010.4	3303.3
62.5°	1745.5	1724.3	1884.2	2305.3	2768.8	3304.1	3501.6	3484.5	3271.5	3262.5	3464.1
65°	1348.9	1378.3	1514.6	1905.4	2550.9	3457.6	3881.1	3859.0	3595.5	3470.6	3446.9
67.5°	866.6	860.9	957.2	1273.8	1906.3	3142.6	4079.4	4103.9	3780.7	3564.5	3210.3
70°	310.9	319.9	355.8	578.6	1045.3	2094.0	3596.3	3717.9	3644.4	3389.0	2613.0
72.5°	189.3	189.3	215.4	260.3	423.5	993.1	2563.2	2803.9	2974.5	2792.5	1929.9
75°	148.5	147.7	156.7	179.5	228.5	325.6	1362.8	1548.8	1907.9	1929.1	1098.4
77.5°	117.5	116.7	125.7	136.3	170.6	172.2	434.9	566.3	875.6	824.2	392.5
80°	94.7	93.8	100.4	103.6	124.9	119.1	174.6	202.4	306.8	269.3	169.7
82.5°	85.7	85.7	92.2	79.2	86.5	84.1	108.5	115.9	154.2	159.9	102.0
85°	55.5	57.1	86.5	76.7	56.3	51.4	69.4	73.4	96.3	105.3	49.8
87.5°	26.1	28.6	66.1	63.7	37.5	27.7	39.2	41.6	52.2	64.5	29.4
90°	4.9	4.9	8.2	9.0	4.9	4.9	6.5	5.7	5.7	8.2	8.2
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-1200-LED-E1-T3-8030

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°	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7
2.5°	745.0	743.4	744.2	745.0	745.9	748.3	749.1	749.1	749.1	748.3	749.9
5°	736.1	734.4	734.4	736.9	739.3	742.6	747.5	751.6	753.2	754.0	754.0
7.5°	726.3	724.6	725.5	729.5	733.6	736.1	741.0	743.4	749.9	749.9	751.6
10°	719.7	721.4	722.2	726.3	729.5	729.5	728.7	727.1	725.5	729.5	727.9
12.5°	715.7	718.1	717.3	722.2	723.8	717.3	707.5	694.4	692.8	694.4	696.1
15°	714.0	714.0	716.5	716.5	708.3	695.3	683.0	683.8	685.5	690.4	690.4
17.5°	714.0	714.8	716.5	710.8	696.1	684.7	682.2	679.8	670.8	668.3	665.9
20°	719.7	718.1	719.7	709.1	696.1	687.1	668.3	650.4	633.2	625.9	622.6
22.5°	733.6	731.2	730.4	719.7	703.4	673.2	636.5	608.8	579.4	569.6	566.3
25°	758.1	757.3	751.6	744.2	698.5	639.8	593.3	549.2	517.4	500.2	501.0
27.5°	801.3	801.3	798.1	765.4	673.2	598.2	535.3	490.4	457.8	441.5	439.0
30°	866.6	868.3	869.9	771.2	633.2	537.0	471.7	441.5	421.9	409.7	408.8
32.5°	947.4	956.4	945.8	764.6	578.6	462.7	421.9	411.3	401.5	393.3	392.5
35°	1054.3	1078.8	1011.9	738.5	517.4	412.1	391.7	384.4	377.0	371.3	372.1
37.5°	1197.9	1221.6	1054.3	694.4	439.0	383.5	374.6	363.1	351.7	339.5	337.8
40°	1367.7	1360.3	1069.0	611.2	390.1	369.7	357.4	342.7	323.2	305.2	301.9
42.5°	1537.4	1488.5	1056.8	508.4	358.2	357.4	340.3	321.5	301.9	286.4	286.4
45°	1727.6	1601.1	1019.2	412.1	332.9	344.4	323.2	303.6	285.6	274.2	273.4
47.5°	1907.1	1706.3	957.2	343.6	307.6	327.2	310.1	292.1	275.0	265.2	262.8
50°	2117.6	1826.3	909.9	297.0	283.2	310.1	302.8	286.4	270.1	258.7	257.1
52.5°	2330.6	1943.0	874.0	265.2	261.1	297.0	299.5	289.7	272.6	250.5	248.9
55°	2553.4	2089.1	802.2	239.9	241.5	287.2	303.6	296.2	284.0	248.1	246.4
57.5°	2740.3	2223.7	676.5	222.8	226.0	279.9	305.2	291.3	277.5	249.7	247.3
60°	2886.3	2315.9	496.2	208.9	212.2	271.7	297.9	274.2	256.2	249.7	245.6
62.5°	2931.2	2319.2	329.7	192.6	201.6	257.9	284.8	265.2	244.0	247.3	245.6
65°	2818.6	2196.8	235.8	177.1	192.6	241.5	279.1	256.2	238.3	251.3	249.7
67.5°	2471.8	1850.8	189.3	164.8	180.3	224.4	268.5	248.1	233.4	260.3	255.4
70°	1925.8	1327.7	160.8	152.6	167.3	208.1	253.8	239.1	226.9	253.0	246.4
72.5°	1269.8	781.8	142.0	141.2	151.8	194.2	237.5	230.9	216.3	229.3	219.5
75°	662.6	362.3	123.2	128.1	134.6	182.0	222.8	216.3	199.9	204.8	201.6
77.5°	260.3	169.7	106.9	112.6	120.0	164.0	204.0	197.5	183.6	179.5	178.7
80°	142.8	114.2	88.9	96.3	101.2	147.7	184.4	177.1	162.4	159.9	157.5
82.5°	90.6	74.3	73.4	78.3	84.9	131.4	165.7	154.2	142.0	167.3	135.5
85°	42.4	44.1	52.2	58.8	66.1	111.8	144.4	132.2	120.0	116.7	103.6
87.5°	23.7	29.4	34.3	40.0	45.7	78.3	114.2	102.8	89.8	76.7	79.2
90°	5.7	5.7	9.8	9.0	9.8	11.4	56.3	50.6	44.9	21.2	13.9
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



REPORT NUMBER: P226461
 CATALOG NUMBER: IST-AF-1200-LED-E1-T3-8030

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)