

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: P226721

Luminaire Tested: **IST-AF-1200-LED-E1-T4W-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226721
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-1200-LED-E1-T4W-8030
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5626.3 lumens
Efficiency: N/A
Efficacy: 85.2 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 - G2

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

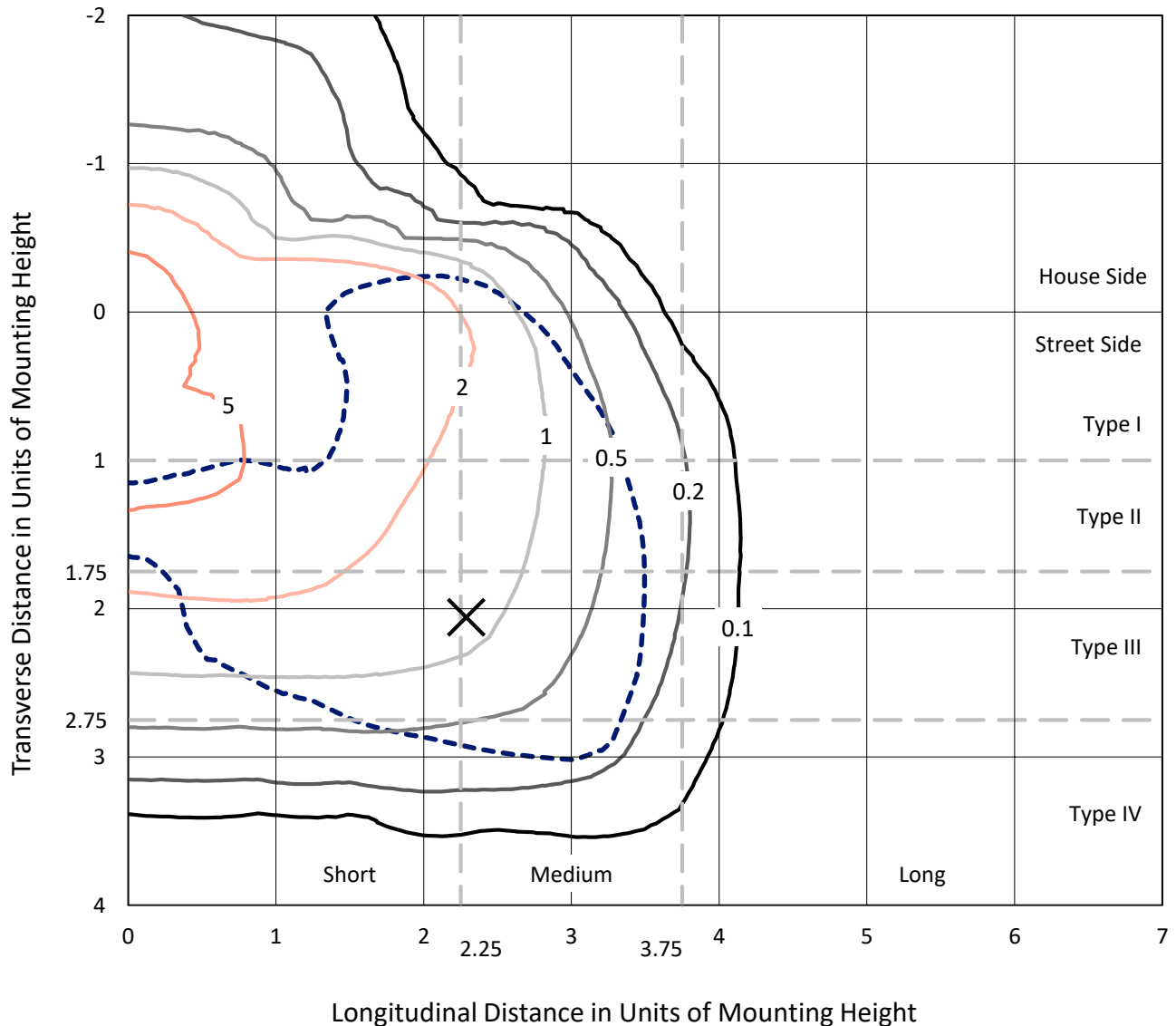


REPORT NUMBER: P226721

CATALOG NUMBER: IST-AF-1200-LED-E1-T4W-8030

Iso-Footcandle Lines of Horizontal Illumination

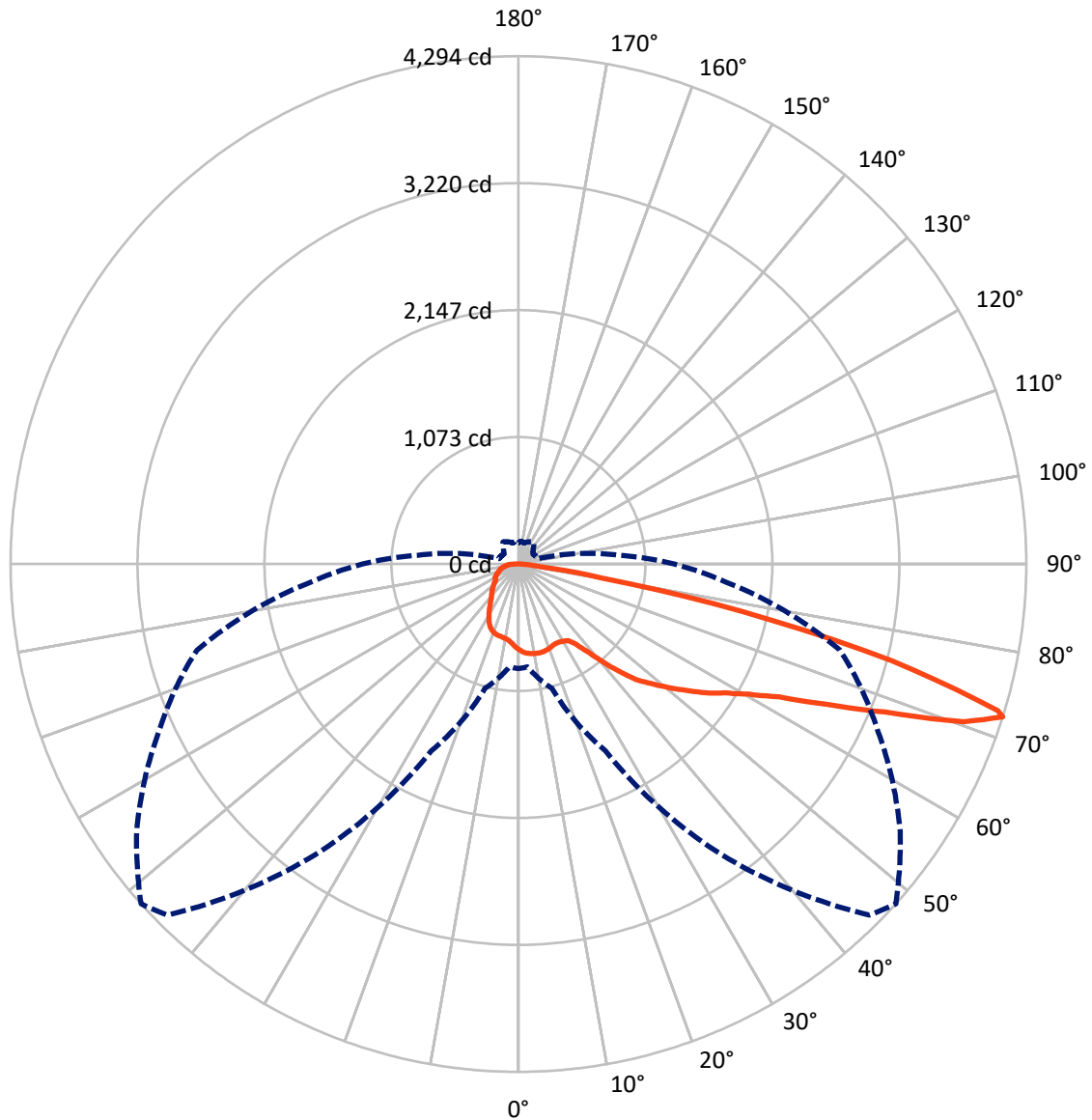
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Medium - Semi-Cutoff

REPORT NUMBER: P226721
CATALOG NUMBER: IST-AF-1200-LED-E1-T4W-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P226721

CATALOG NUMBER: IST-AF-1200-LED-E1-T4W-8030

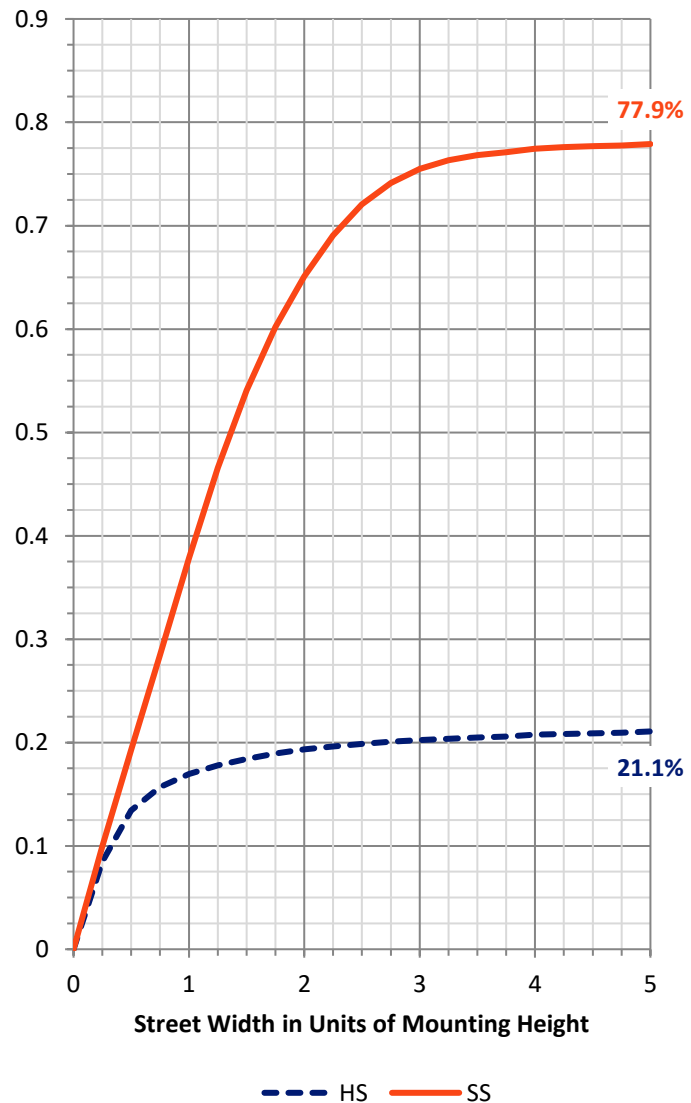
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1222.0	2.5	1224.5
	% Fixture	21.7	0.0	21.8
Street Side	Lumens	4400.9	0.9	4401.8
	% Fixture	78.2	0.0	78.2
Total	Lumens	5622.9	3.4	5626.3
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	1.2
10°-20°	199.9	3.6
20°-30°	308.3	5.5
30°-40°	462.1	8.2
40°-50°	769.4	13.7
50°-60°	1202.4	21.4
60°-70°	1588.3	28.2
70°-80°	918.8	16.3
80°-90°	105.3	1.9
90°-100°	3.4	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°	5622.9	99.9
0°-180°	5626.3	100.0



REPORT NUMBER: P226721

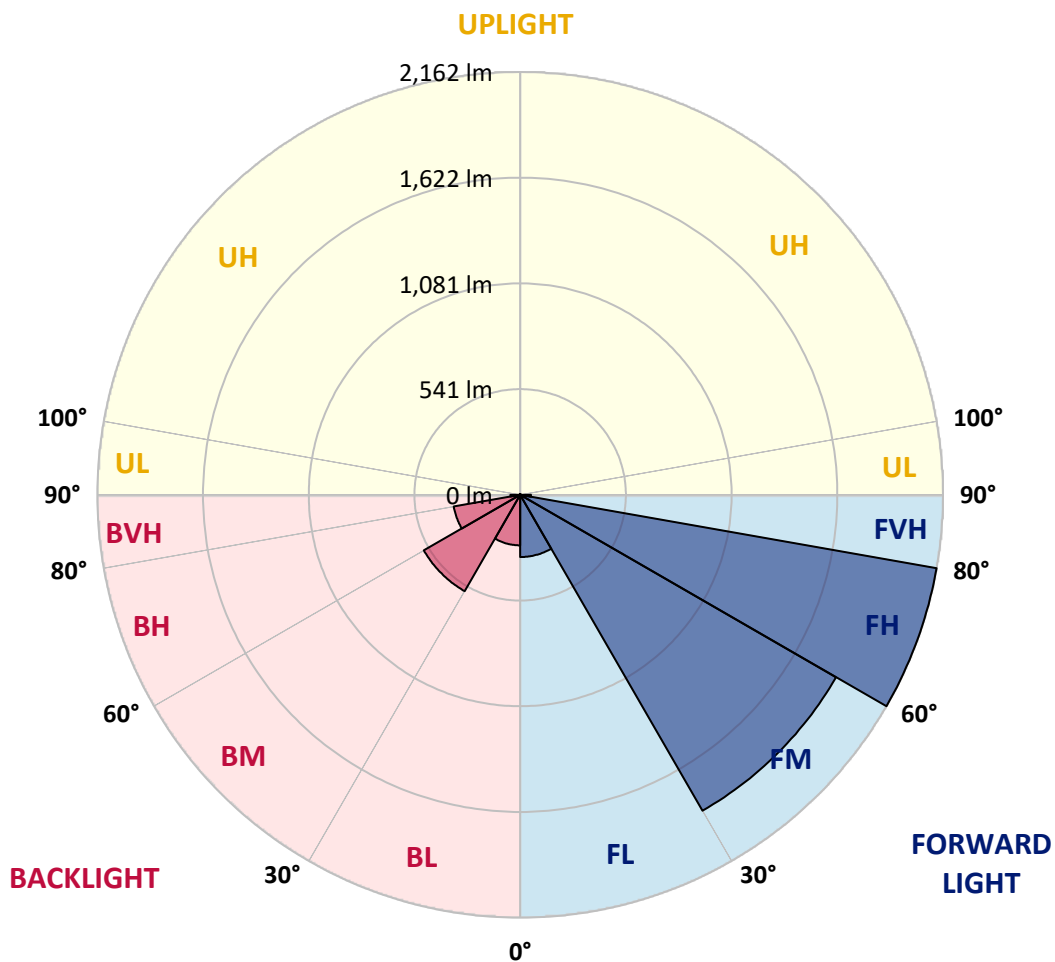
CATALOG NUMBER: IST-AF-1200-LED-E1-T4W-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.1	5.7			
FM	(30°-60°)	1865.3	33.2			
FH	(60°-80°)	2162.2	38.4			G2/5000
FVH	(80°-90°)	55.3	1.0			G1/100
BL	(0°-30°)	258.5	4.6	B1/500		
BM	(30°-60°)	568.6	10.1	B1/1000		
BH	(60°-80°)	344.8	6.1	B1/500		G1/500
BVH	(80°-90°)	50.1	0.9			G1/100
UL	(90°-100°)	3.4	0.1		U1/10	
UH	(100°-180°)	2.5	0.0		U1/10	

BUG Rating: B1-U1-G2

Type IV Medium





REPORT NUMBER: P226721

CATALOG NUMBER: IST-AF-1200-LED-E1-T4W-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8
2.5°	762.2	761.3	761.3	754.8	752.4	748.3	745.0	740.1	735.2	729.5	722.2
5°	798.9	801.3	798.1	788.3	776.0	763.0	758.1	746.6	731.1	717.3	704.2
7.5°	834.0	834.8	825.8	809.5	790.7	770.3	763.8	748.3	731.1	712.4	693.6
10°	859.3	860.1	847.0	824.2	798.9	776.0	768.7	753.2	732.0	711.6	687.9
12.5°	873.9	874.8	855.2	831.5	801.3	778.5	771.9	755.6	733.6	707.5	681.4
15°	871.5	873.9	857.6	831.5	799.7	779.3	771.1	757.3	729.5	703.4	675.7
17.5°	855.2	858.4	845.4	816.8	791.5	775.2	766.2	752.4	725.4	697.7	667.5
20°	823.4	827.4	821.7	794.0	776.8	763.8	758.1	745.0	719.7	691.2	660.2
22.5°	787.4	791.5	789.9	767.0	758.9	752.4	746.6	736.9	714.8	686.3	656.9
25°	761.3	764.6	762.2	742.6	745.0	745.0	741.8	734.4	714.0	687.9	656.9
27.5°	804.6	804.6	783.4	743.4	739.3	746.6	745.0	740.9	724.6	696.1	663.4
30°	962.9	950.7	912.3	811.9	760.5	757.3	756.4	754.0	739.3	714.0	683.8
32.5°	1140.0	1127.7	1082.0	956.4	849.5	779.3	771.9	772.8	768.7	745.0	714.8
35°	1297.5	1295.8	1259.9	1123.6	987.4	856.8	827.4	807.8	806.2	796.4	772.8
37.5°	1424.8	1424.8	1428.0	1273.0	1136.7	980.0	930.3	868.2	868.2	862.5	847.8
40°	1570.0	1576.5	1583.9	1408.4	1296.6	1126.9	1070.6	976.8	948.2	957.2	960.4
42.5°	1760.9	1769.1	1764.2	1575.7	1442.7	1302.4	1233.0	1119.6	1049.4	1064.1	1098.3
45°	1889.9	1893.1	1928.2	1750.3	1626.3	1450.9	1392.1	1236.3	1166.9	1197.1	1257.5
47.5°	2035.9	2044.1	2049.8	1948.6	1841.7	1619.0	1511.2	1349.7	1304.8	1350.5	1446.0
50°	2178.7	2168.1	2183.6	2179.6	2045.7	1768.3	1640.2	1455.8	1459.0	1521.0	1677.7
52.5°	2302.8	2266.9	2302.8	2347.7	2308.5	1921.7	1772.4	1580.6	1627.9	1703.8	1951.1
55°	2398.3	2311.8	2372.1	2499.4	2490.5	2057.2	1923.3	1747.1	1826.2	1929.9	2283.2
57.5°	2203.2	2213.8	2380.3	2601.4	2597.4	2194.3	2055.5	1955.2	2052.3	2168.1	2676.5
60°	2021.3	2068.6	2325.6	2617.8	2671.6	2343.6	2233.4	2191.8	2281.6	2422.7	3053.5
62.5°	1925.0	1969.8	2236.7	2587.6	2789.9	2564.7	2472.5	2440.7	2563.1	2721.4	3389.7
65°	1955.2	1982.9	2231.0	2633.3	2926.2	2899.3	2859.3	2806.3	2867.5	3016.0	3541.5
67.5°	1870.3	1916.0	2183.6	2714.0	3175.1	3307.3	3340.7	3283.6	3232.2	3211.8	3320.3
70°	1392.1	1436.2	1716.9	2380.3	3379.1	4015.6	3995.2	3804.2	3458.2	3169.4	2594.1
72°	884.6	872.3	1086.9	1743.8	3003.7	4197.6	4293.8	3940.5	3355.4	2814.4	1761.8
72.5°	643.0	701.0	901.7	1550.4	2853.6	4098.0	4238.4	3896.4	3220.8	2658.6	1549.6
75°	156.7	165.6	216.2	555.7	1671.2	3083.7	3260.0	3010.3	2350.9	1578.2	687.1
77.5°	106.1	110.2	142.8	195.8	491.2	1758.5	1934.8	1662.2	1051.8	536.9	306.0
80°	79.2	81.6	103.6	138.7	204.0	599.8	707.5	562.2	261.9	297.8	217.9
82.5°	55.5	57.1	78.3	102.0	135.5	140.4	186.9	206.5	169.7	195.0	127.3
85°	38.4	38.4	57.1	70.2	85.7	69.4	74.3	103.6	115.1	115.9	77.5
87.5°	20.4	22.8	33.5	44.9	44.9	31.8	35.1	53.0	64.5	69.4	46.5
90°	7.3	7.3	13.9	17.1	10.6	8.2	7.3	10.6	15.5	22.0	14.7
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



REPORT NUMBER: P226721

CATALOG NUMBER: IST-AF-1200-LED-E1-T4W-8030

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



REPORT NUMBER: P226721

CATALOG NUMBER: IST-AF-1200-LED-E1-T4W-8030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8
2.5°	720.5	715.6	709.1	705.8	704.2	701.0	697.7	696.1	696.1	692.8	693.6
5°	697.7	690.3	681.4	674.8	674.0	674.0	675.7	675.7	676.5	674.0	677.3
7.5°	686.3	678.1	665.0	657.7	652.0	651.2	654.4	661.0	664.2	661.8	665.0
10°	678.1	669.1	654.4	645.5	641.4	639.8	642.2	648.7	659.3	659.3	662.6
12.5°	669.9	658.5	643.8	637.3	634.0	634.9	638.1	643.0	654.4	658.5	660.2
15°	661.8	648.7	636.5	627.5	627.5	630.0	634.0	639.8	650.4	657.7	659.3
17.5°	653.6	640.6	630.0	622.6	622.6	625.9	630.0	637.3	644.6	655.3	655.3
20°	646.3	635.7	621.8	615.3	614.5	616.9	621.8	629.1	634.9	645.5	646.3
22.5°	642.2	629.1	616.1	606.3	602.2	600.6	605.5	612.8	618.5	629.1	630.8
25°	640.6	625.9	609.6	591.6	581.0	577.7	580.2	589.2	594.1	602.2	604.7
27.5°	646.3	632.4	607.1	574.5	552.4	543.5	545.9	551.6	553.3	562.2	566.3
30°	665.9	649.5	612.0	556.5	516.5	500.2	500.2	501.0	503.5	510.8	511.6
32.5°	697.7	682.2	626.7	537.8	479.8	457.0	451.3	447.2	447.2	446.4	447.2
35°	756.4	743.4	652.0	516.5	439.8	414.5	400.7	393.3	386.0	382.7	381.9
37.5°	841.3	829.9	687.9	492.1	404.7	379.4	362.3	347.6	339.5	338.6	342.7
40°	967.8	956.4	727.9	464.3	371.3	352.5	334.6	319.1	310.1	310.9	315.0
42.5°	1123.6	1088.6	771.1	426.8	344.4	334.6	315.0	301.9	292.9	288.1	287.2
45°	1305.6	1246.9	811.9	391.7	315.0	319.1	300.3	285.6	274.2	261.1	259.5
47.5°	1532.5	1405.2	847.8	356.6	283.2	302.7	284.8	270.9	253.8	238.3	235.8
50°	1769.1	1587.1	878.8	319.1	254.6	284.8	269.3	250.5	226.9	213.0	213.0
52.5°	2042.5	1805.8	918.8	277.4	232.6	265.2	249.7	225.2	205.6	204.0	204.0
55°	2346.8	2035.1	946.6	244.8	215.4	244.0	236.6	229.3	222.8	224.4	225.2
57.5°	2665.1	2274.2	922.1	222.0	201.6	239.1	260.3	250.5	230.1	229.3	228.5
60°	2939.3	2460.3	786.6	207.3	190.9	247.3	279.1	250.5	230.1	240.7	241.5
62.5°	3118.8	2548.4	523.9	188.5	175.4	233.4	272.5	243.2	230.9	261.1	263.6
65°	3094.3	2449.7	301.1	175.4	165.6	214.6	263.6	234.2	215.4	232.6	227.7
67.5°	2729.6	2053.1	217.9	169.7	158.3	201.6	247.3	221.1	200.7	222.0	213.0
70°	1961.7	1397.8	187.7	164.8	153.4	186.1	235.8	213.0	192.6	207.3	193.4
72°	1316.2	850.3	172.2	160.8	148.5	176.3	227.7	206.5	185.2	193.4	177.9
72.5°	1120.4	670.8	168.1	159.1	146.9	173.8	225.2	204.8	183.6	191.8	177.1
75°	418.6	262.8	149.3	146.9	135.5	161.6	215.4	197.5	175.4	173.0	166.5
77.5°	215.4	166.5	127.3	129.7	121.6	147.7	204.8	186.1	161.6	152.6	149.3
80°	156.7	120.8	102.8	110.2	103.6	133.0	190.1	168.9	146.9	137.1	133.0
82.5°	98.7	75.1	78.3	87.3	88.1	117.5	173.0	151.8	130.6	122.4	115.9
85°	47.3	44.9	55.5	64.5	71.0	99.6	158.3	134.6	114.2	97.9	98.7
87.5°	25.3	34.3	33.5	43.2	54.7	81.6	140.4	110.2	91.4	73.4	74.3
90°	5.7	9.0	9.8	17.1	22.0	35.1	90.6	62.8	61.2	26.1	22.8
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



REPORT NUMBER: P226721

CATALOG NUMBER: IST-AF-1200-LED-E1-T4W-8030

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)