

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: P271680

Luminaire Tested: **IST-AF-1200-LED-E1-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271680
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-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: 5990.4 lumens
Efficiency: N/A
Efficacy: 90.8 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

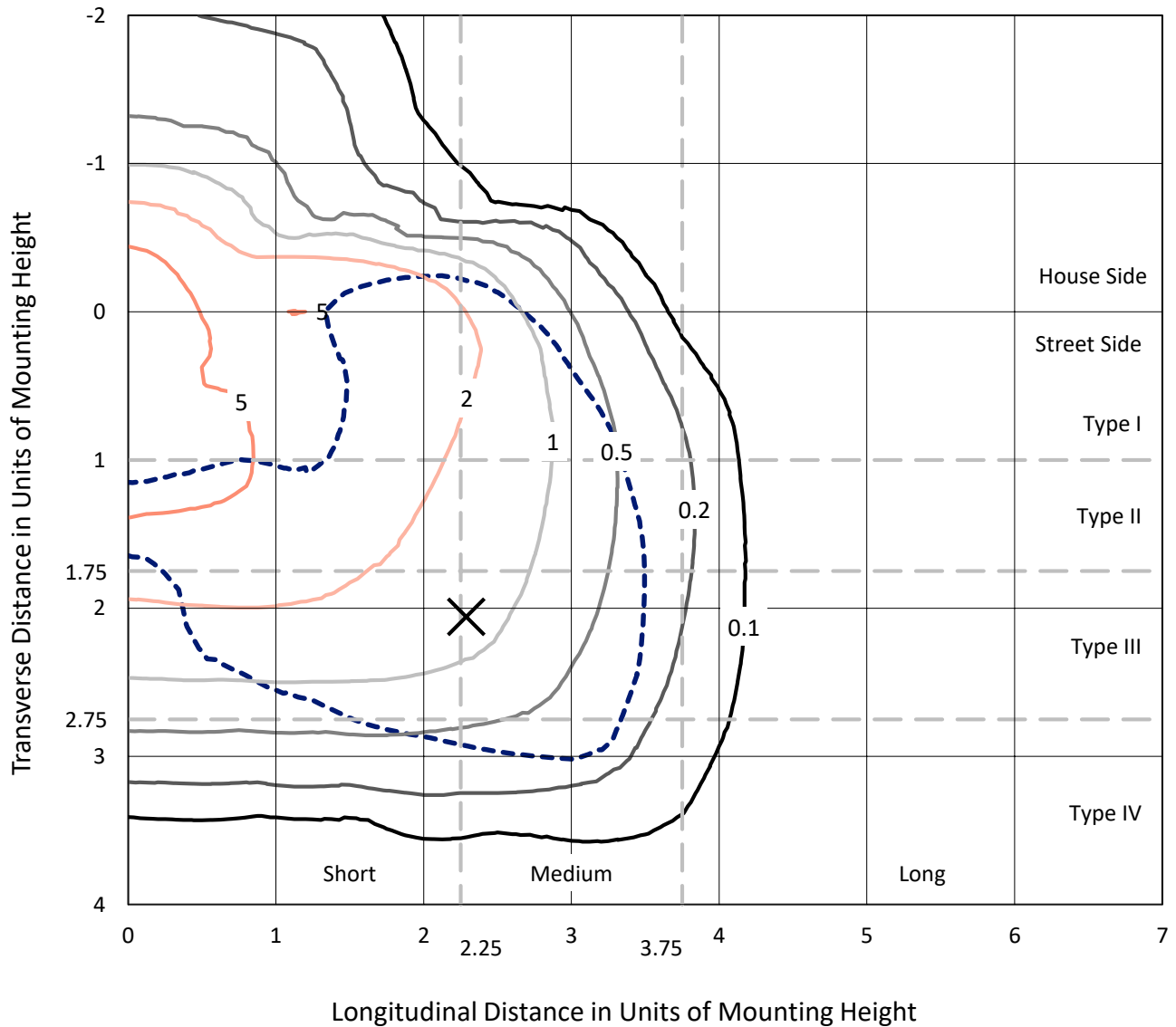


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Iso-Footcandle Lines of Horizontal Illumination

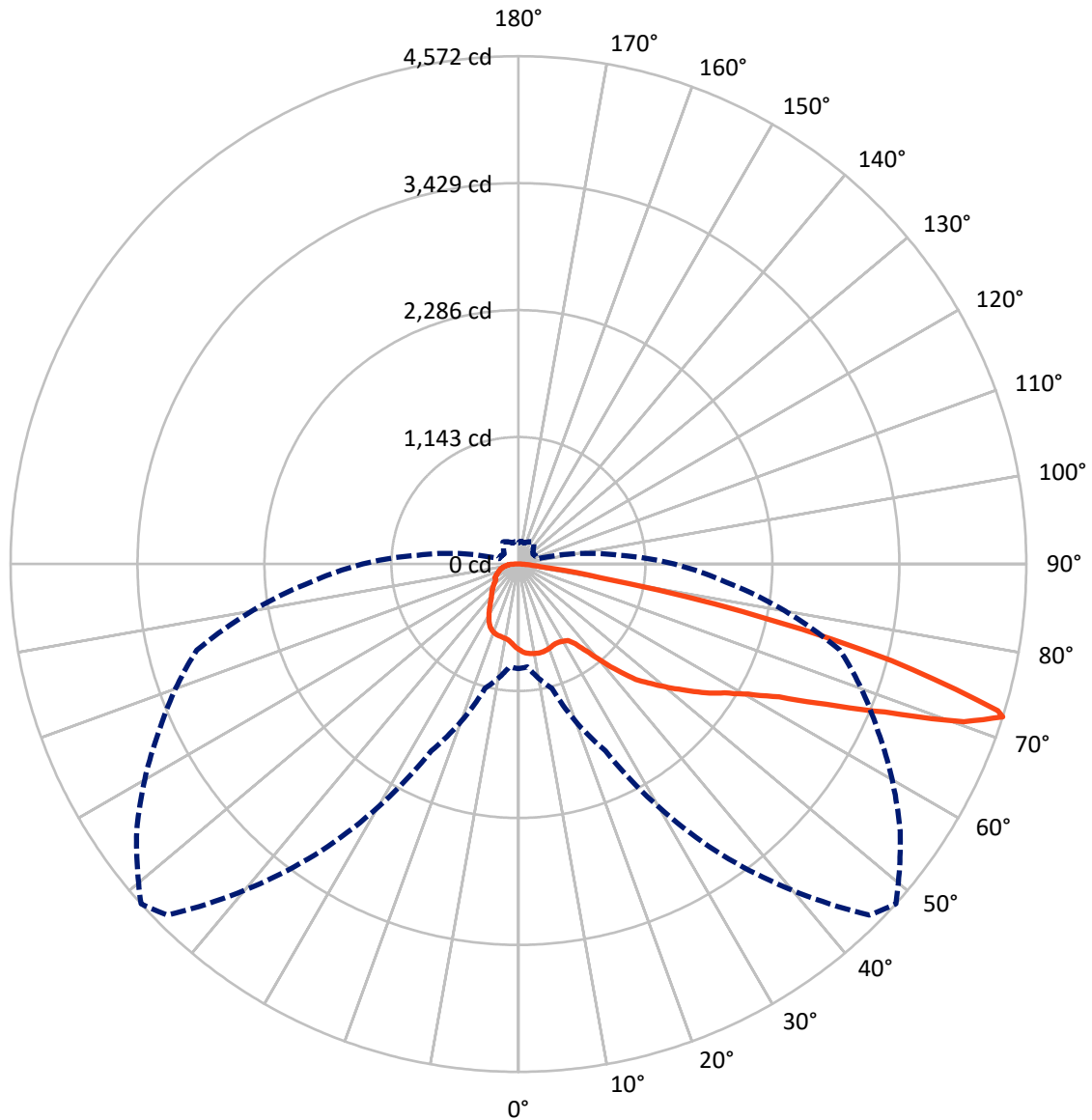
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 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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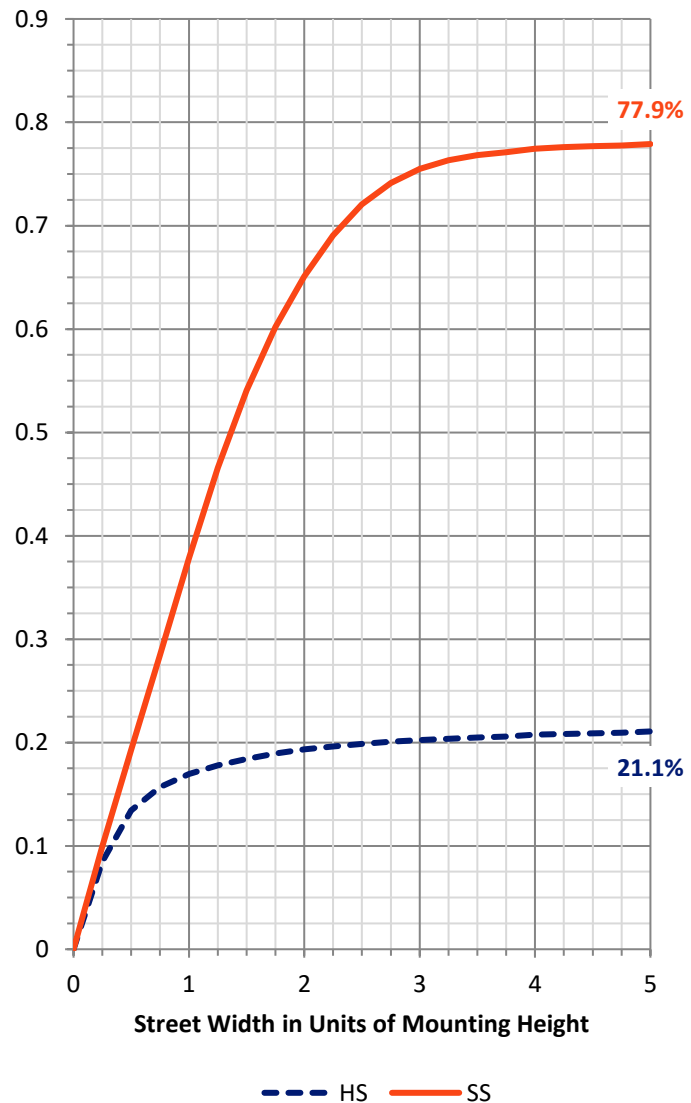
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1301.1	2.7	1303.7
	% Fixture	21.7	0.0	21.8
Street Side	Lumens	4685.7	0.9	4686.7
	% Fixture	78.2	0.0	78.2
Total	Lumens	5986.8	3.6	5990.4
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.2
10°-20°	212.9	3.6
20°-30°	328.2	5.5
30°-40°	492.0	8.2
40°-50°	819.2	13.7
50°-60°	1280.2	21.4
60°-70°	1691.1	28.2
70°-80°	978.2	16.3
80°-90°	112.1	1.9
90°-100°	3.6	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°	5986.8	99.9
0°-180°	5990.4	100.0



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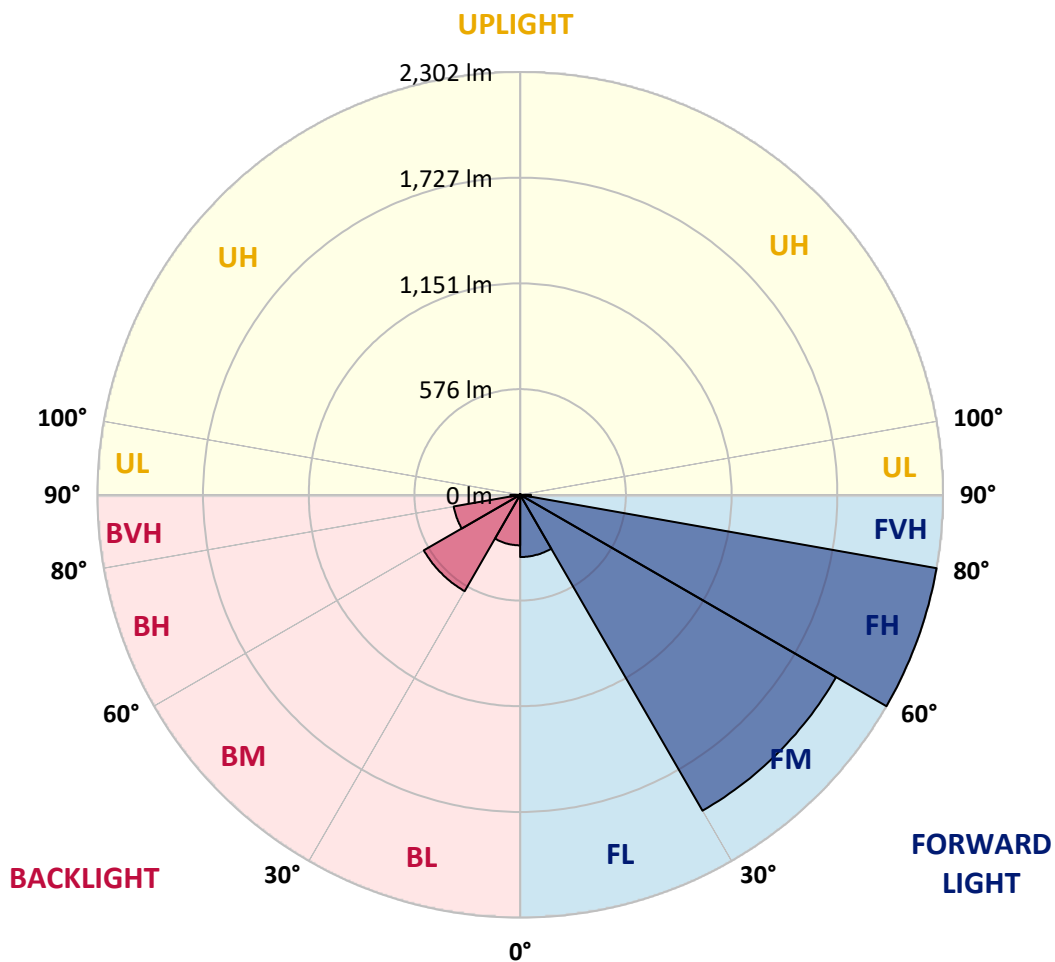
CATALOG NUMBER: IST-AF-1200-LED-E1-T4W-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	338.7	5.7			
FM	(30°-60°)	1986.0	33.2			
FH	(60°-80°)	2302.2	38.4			G2/5000
FVH	(80°-90°)	58.8	1.0			G1/100
BL	(0°-30°)	275.2	4.6	B1/500		
BM	(30°-60°)	605.4	10.1	B1/1000		
BH	(60°-80°)	367.1	6.1	B1/500		G1/500
BVH	(80°-90°)	53.3	0.9			G1/100
UL	(90°-100°)	3.6	0.1		U1/10	
UH	(100°-180°)	2.7	0.0		U1/10	

BUG Rating: B1-U1-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	770.7	770.7	770.7	770.7	770.7	770.7	770.7	770.7	770.7	770.7	770.7
2.5°	811.5	810.6	810.6	803.6	801.1	796.7	793.2	788.0	782.9	776.8	768.9
5°	850.5	853.2	849.7	839.3	826.2	812.3	807.1	795.0	778.4	763.6	749.7
7.5°	888.0	888.9	879.2	861.8	841.9	820.2	813.2	796.7	778.4	758.5	738.5
10°	914.8	915.7	901.8	877.6	850.5	826.2	818.4	801.8	779.3	757.6	732.4
12.5°	930.6	931.4	910.5	885.3	853.2	828.9	821.9	804.5	781.1	753.3	725.5
15°	927.9	930.6	913.1	885.3	851.4	829.8	821.1	806.3	776.8	749.0	719.5
17.5°	910.5	913.9	900.1	869.6	842.8	825.4	815.8	801.1	772.5	742.9	710.6
20°	876.7	881.0	874.9	845.3	827.1	813.2	807.1	793.2	766.3	735.9	702.8
22.5°	838.4	842.8	841.0	816.6	807.9	801.1	795.0	784.5	761.0	730.7	699.4
25°	810.6	814.0	811.5	790.6	793.2	793.2	789.8	782.0	760.2	732.4	699.4
27.5°	856.6	856.6	834.1	791.5	787.2	795.0	793.2	788.9	771.6	741.1	706.3
30°	1025.1	1012.2	971.3	864.5	809.7	806.3	805.4	802.7	787.2	760.2	728.1
32.5°	1213.7	1200.8	1152.1	1018.3	904.4	829.8	821.9	822.8	818.4	793.2	761.0
35°	1381.4	1379.7	1341.5	1196.4	1051.3	912.3	881.0	860.1	858.4	848.0	822.8
37.5°	1517.0	1517.0	1520.4	1355.4	1210.3	1043.4	990.4	924.4	924.4	918.3	902.7
40°	1671.6	1678.6	1686.4	1499.6	1380.5	1199.9	1139.9	1040.0	1009.5	1019.1	1022.6
42.5°	1874.9	1883.6	1878.4	1677.7	1536.1	1386.6	1312.9	1192.1	1117.3	1132.9	1169.4
45°	2012.1	2015.7	2053.1	1863.6	1731.6	1544.7	1482.2	1316.3	1242.4	1274.5	1338.8
47.5°	2167.7	2176.4	2182.4	2074.7	1960.9	1723.8	1609.0	1437.0	1389.3	1437.8	1539.5
50°	2319.7	2308.5	2324.9	2320.6	2178.1	1882.8	1746.3	1549.9	1553.5	1619.5	1786.3
52.5°	2451.8	2413.6	2451.8	2499.6	2457.9	2046.1	1887.1	1683.0	1733.3	1814.0	2077.3
55°	2553.4	2461.4	2525.7	2661.2	2651.7	2190.2	2047.8	1860.1	1944.4	2054.7	2430.9
57.5°	2345.8	2357.2	2534.4	2769.8	2765.4	2336.2	2188.5	2081.7	2185.0	2308.5	2849.7
60°	2152.1	2202.5	2476.1	2787.2	2844.6	2495.2	2377.9	2333.7	2429.2	2579.6	3251.1
62.5°	2049.6	2097.4	2381.5	2755.0	2970.4	2730.7	2632.6	2598.7	2728.9	2897.6	3609.1
65°	2081.7	2111.3	2375.4	2803.7	3115.6	3086.9	3044.4	2987.9	3053.0	3211.1	3770.6
67.5°	1991.4	2040.1	2324.9	2889.7	3380.6	3521.4	3557.0	3496.1	3441.4	3419.7	3535.2
70°	1482.2	1529.2	1828.1	2534.4	3597.8	4275.4	4253.7	4050.5	3682.1	3374.6	2762.0
72°	941.9	928.8	1157.3	1856.7	3198.1	4469.2	4571.7	4195.5	3572.6	2996.6	1875.8
72.5°	684.6	746.3	960.1	1650.7	3038.2	4363.2	4512.6	4148.6	3429.2	2830.6	1649.8
75°	166.8	176.3	230.2	591.6	1779.4	3283.2	3470.9	3205.1	2503.0	1680.3	731.5
77.5°	113.0	117.3	152.0	208.6	523.0	1872.2	2059.9	1769.8	1119.8	571.7	325.8
80°	84.4	86.9	110.3	147.7	217.2	638.5	753.3	598.6	278.9	317.1	232.0
82.5°	59.1	60.8	83.5	108.7	144.2	149.5	199.0	219.8	180.6	207.7	135.6
85°	40.9	40.9	60.8	74.6	91.2	73.8	79.1	110.3	122.5	123.3	82.6
87.5°	21.6	24.3	35.7	47.8	47.8	33.9	37.4	56.4	68.6	73.8	49.6
90°	7.8	7.8	14.7	18.2	11.3	8.7	7.8	11.3	16.5	23.4	15.6
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°	770.7	770.7	770.7	770.7	770.7	770.7	770.7	770.7	770.7	770.7	770.7
2.5°	767.2	761.9	754.9	751.5	749.7	746.3	742.9	741.1	741.1	737.6	738.5
5°	742.9	735.0	725.5	718.6	717.7	717.7	719.5	719.5	720.2	717.7	721.1
7.5°	730.7	722.0	708.0	700.3	694.2	693.3	696.7	703.7	707.2	704.6	708.0
10°	722.0	712.4	696.7	687.2	682.9	681.2	683.8	690.7	702.0	702.0	705.5
12.5°	713.3	701.1	685.5	678.5	675.1	676.0	679.4	684.6	696.7	701.1	702.8
15°	704.6	690.7	677.7	668.1	668.1	670.8	675.1	681.2	692.4	700.3	702.0
17.5°	696.0	682.0	670.8	662.9	662.9	666.5	670.8	678.5	686.3	697.6	697.6
20°	688.1	676.9	662.1	655.0	654.2	656.8	662.1	669.9	676.0	687.2	688.1
22.5°	683.8	669.9	655.9	645.5	641.2	639.4	644.6	652.5	658.5	669.9	671.7
25°	682.0	666.5	649.0	629.9	618.7	615.1	617.8	627.3	632.5	641.2	643.7
27.5°	688.1	673.3	646.4	611.7	588.2	578.7	581.2	587.3	589.1	598.6	602.9
30°	708.9	691.5	651.6	592.5	549.9	532.5	532.5	533.4	536.1	543.8	544.7
32.5°	742.9	726.3	667.2	572.6	510.9	486.5	480.4	476.1	476.1	475.2	476.1
35°	805.4	791.5	694.2	549.9	468.3	441.3	426.5	418.8	411.0	407.5	406.7
37.5°	895.8	883.7	732.4	523.9	431.0	404.0	385.7	370.1	361.4	360.6	364.9
40°	1030.4	1018.3	775.0	494.3	395.3	375.3	356.2	339.6	330.1	331.0	335.3
42.5°	1196.4	1159.0	821.1	454.5	366.7	356.2	335.3	321.4	311.9	306.7	305.9
45°	1390.0	1327.5	864.5	417.0	335.3	339.6	319.8	304.1	291.9	278.0	276.3
47.5°	1631.6	1496.0	902.7	379.6	301.5	322.3	303.2	288.4	270.2	253.7	251.1
50°	1883.6	1689.8	935.8	339.6	271.1	303.2	286.6	266.8	241.6	226.7	226.7
52.5°	2174.7	1922.7	978.3	295.5	247.7	282.3	265.9	239.8	219.0	217.2	217.2
55°	2498.7	2166.8	1007.8	260.7	229.3	259.8	252.0	244.1	237.2	238.9	239.8
57.5°	2837.6	2421.4	981.8	236.3	214.5	254.6	277.1	266.8	245.0	244.1	243.4
60°	3129.4	2619.5	837.5	220.6	203.3	263.2	297.1	266.8	245.0	256.3	257.2
62.5°	3320.7	2713.3	557.8	200.7	186.8	248.5	290.2	258.9	245.9	278.0	280.6
65°	3294.5	2608.2	320.5	186.8	176.3	228.5	280.6	249.4	229.3	247.7	242.5
67.5°	2906.2	2185.9	232.0	180.6	168.5	214.5	263.2	235.4	213.8	236.3	226.7
70°	2088.6	1488.3	199.9	175.5	163.3	198.1	251.1	226.7	205.0	220.6	205.9
72°	1401.4	905.3	183.3	171.1	158.1	187.7	242.5	219.8	197.2	205.9	189.5
72.5°	1192.9	714.2	179.0	169.4	156.3	185.1	239.8	218.1	195.5	204.2	188.6
75°	445.6	279.7	159.0	156.3	144.2	172.0	229.3	210.2	186.8	184.2	177.2
77.5°	229.3	177.2	135.6	138.1	129.4	157.2	218.1	198.1	172.0	162.4	159.0
80°	166.8	128.5	109.4	117.3	110.3	141.7	202.5	179.8	156.3	146.0	141.7
82.5°	105.1	79.9	83.5	93.0	93.9	125.1	184.2	161.5	139.0	130.3	123.3
85°	50.3	47.8	59.1	68.6	75.5	106.0	168.5	143.4	121.6	104.2	105.1
87.5°	26.9	36.5	35.7	46.0	58.2	86.9	149.5	117.3	97.3	78.2	79.1
90°	6.1	9.5	10.4	18.2	23.4	37.4	96.5	66.9	65.1	27.8	24.3
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



REPORT NUMBER: P271680

CATALOG NUMBER: IST-AF-1200-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)