

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: P271739

Luminaire Tested: **IST-AF-1000-LED-E1-T4FT-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35943)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-1000-LED-E1-T4FT-7027-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW, WITH UPLIGHT GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7033.9 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

Input Watts (W): 71.3
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

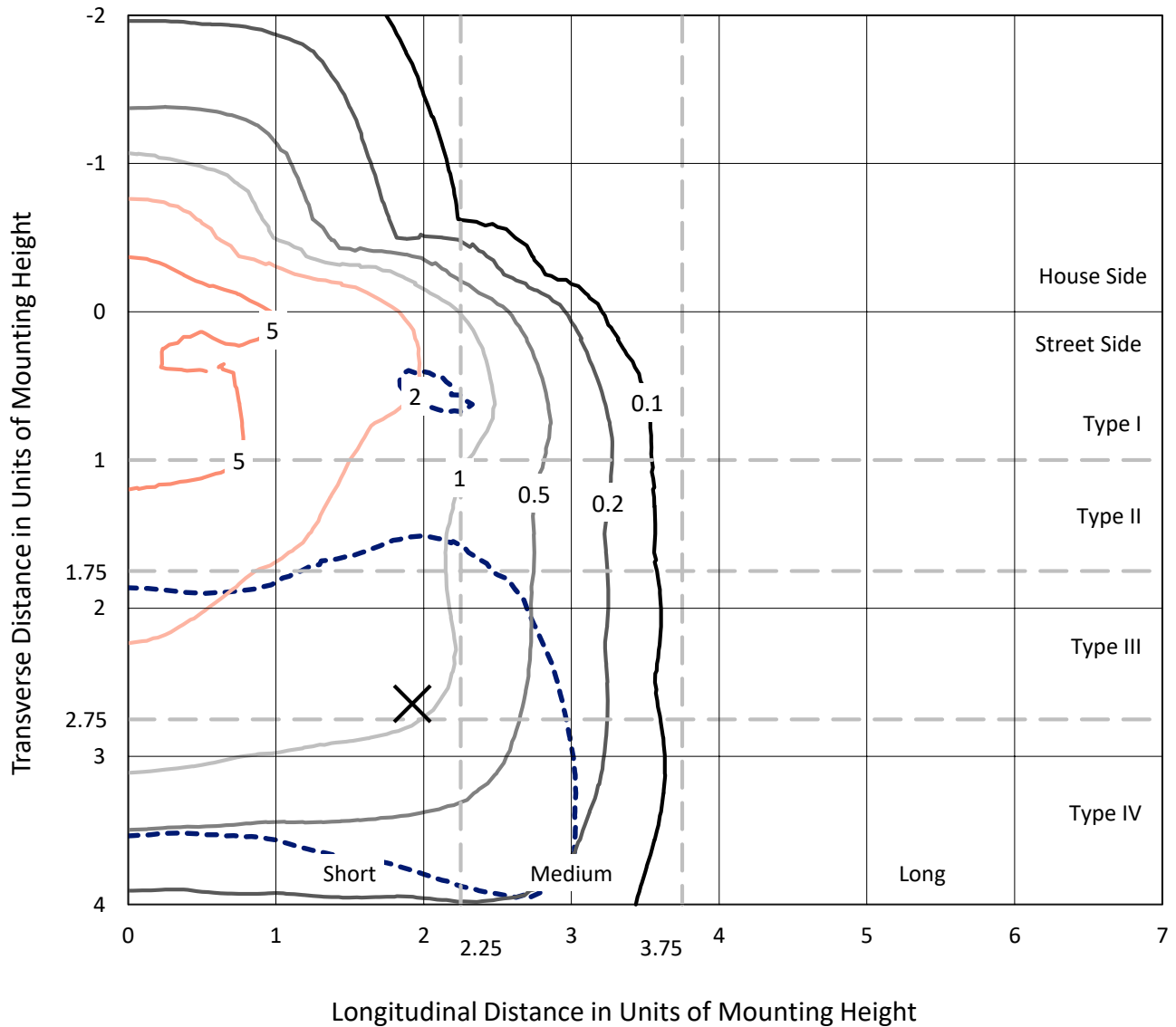


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

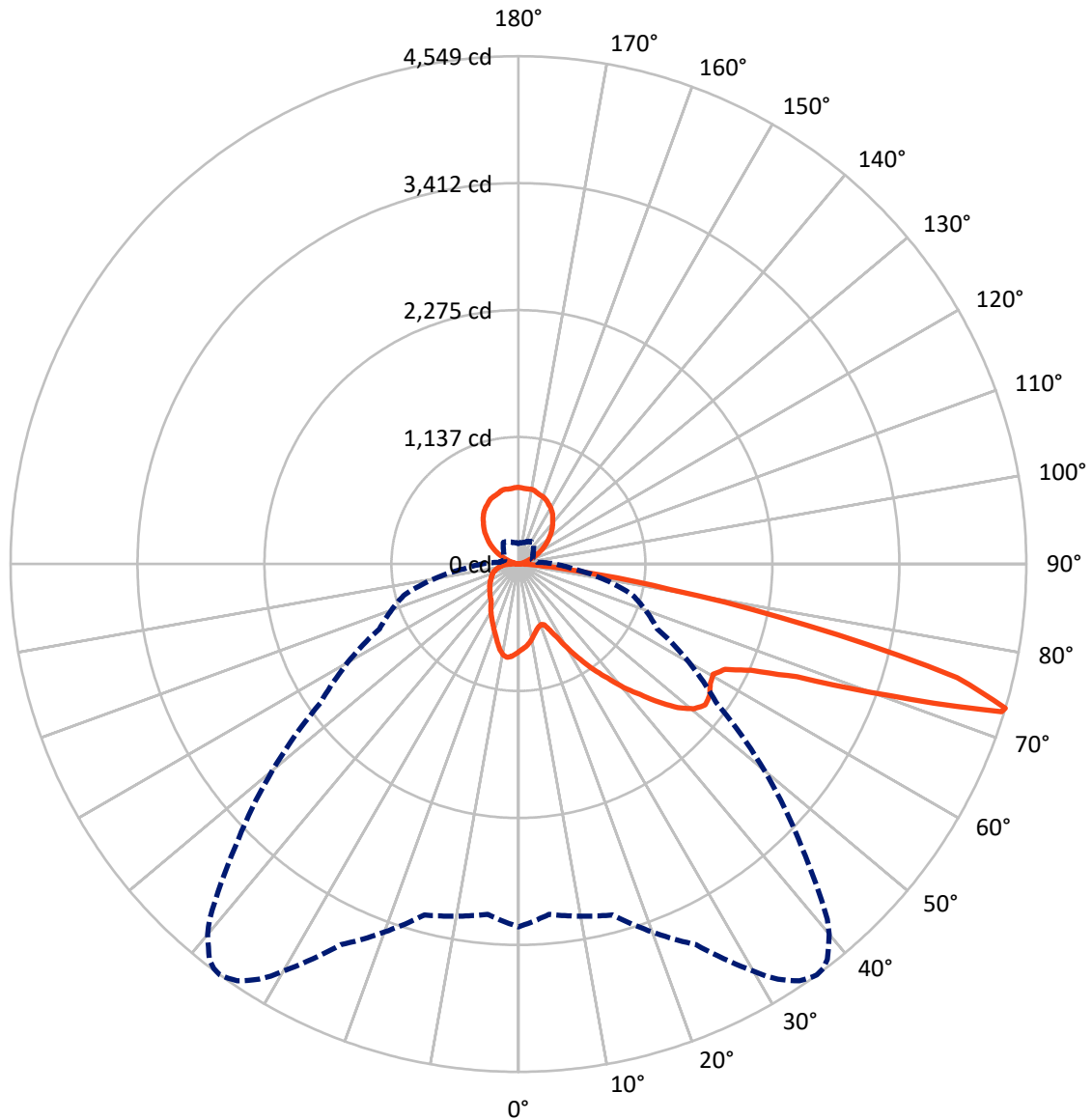


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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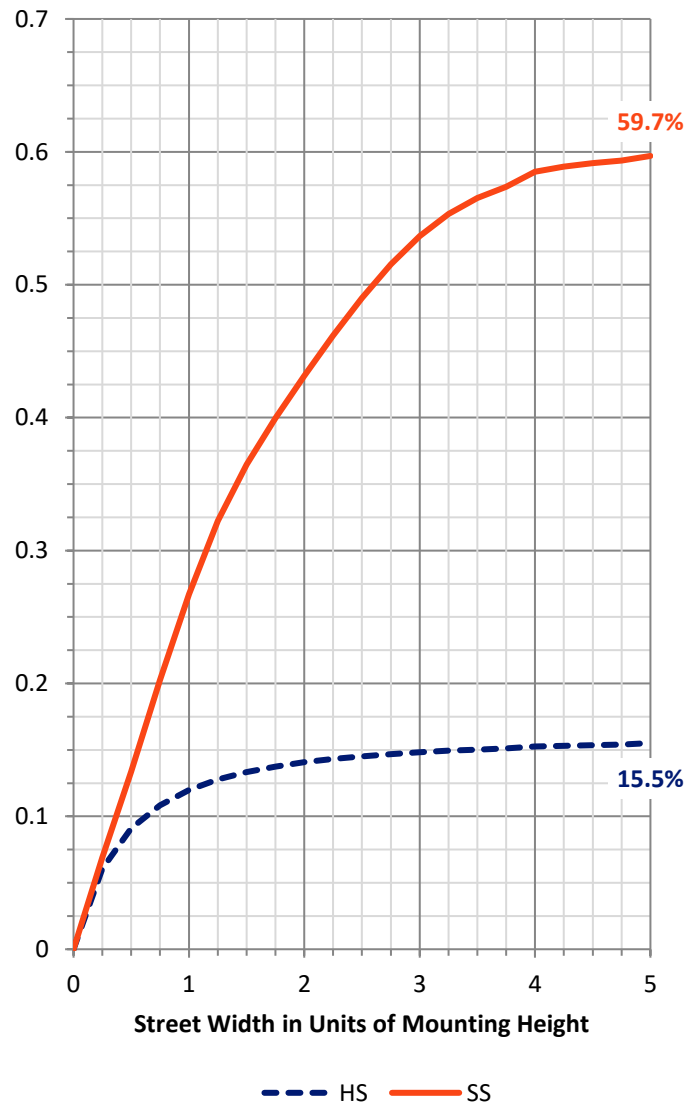
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1124.3	852.7	1977.1
	% Fixture	16.0	12.1	28.1
Street Side	Lumens	4204.9	851.9	5056.8
	% Fixture	59.8	12.1	71.9
Total	Lumens	5329.2	1704.6	7033.9
	% Fixture	75.8	24.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	1.0
10°-20°	195.3	2.8
20°-30°	320.0	4.5
30°-40°	530.2	7.5
40°-50°	779.1	11.1
50°-60°	982.4	14.0
60°-70°	1286.5	18.3
70°-80°	1041.4	14.8
80°-90°	120.8	1.7
90°-100°	10.7	0.2
100°-110°	56.3	0.8
110°-120°	163.1	2.3
120°-130°	268.1	3.8
130°-140°	330.6	4.7
140°-150°	338.2	4.8
150°-160°	284.9	4.1
160°-170°	187.6	2.7
170°-180°	65.0	0.9
0°-90°	5329.2	75.8
0°-180°	7033.9	100.0



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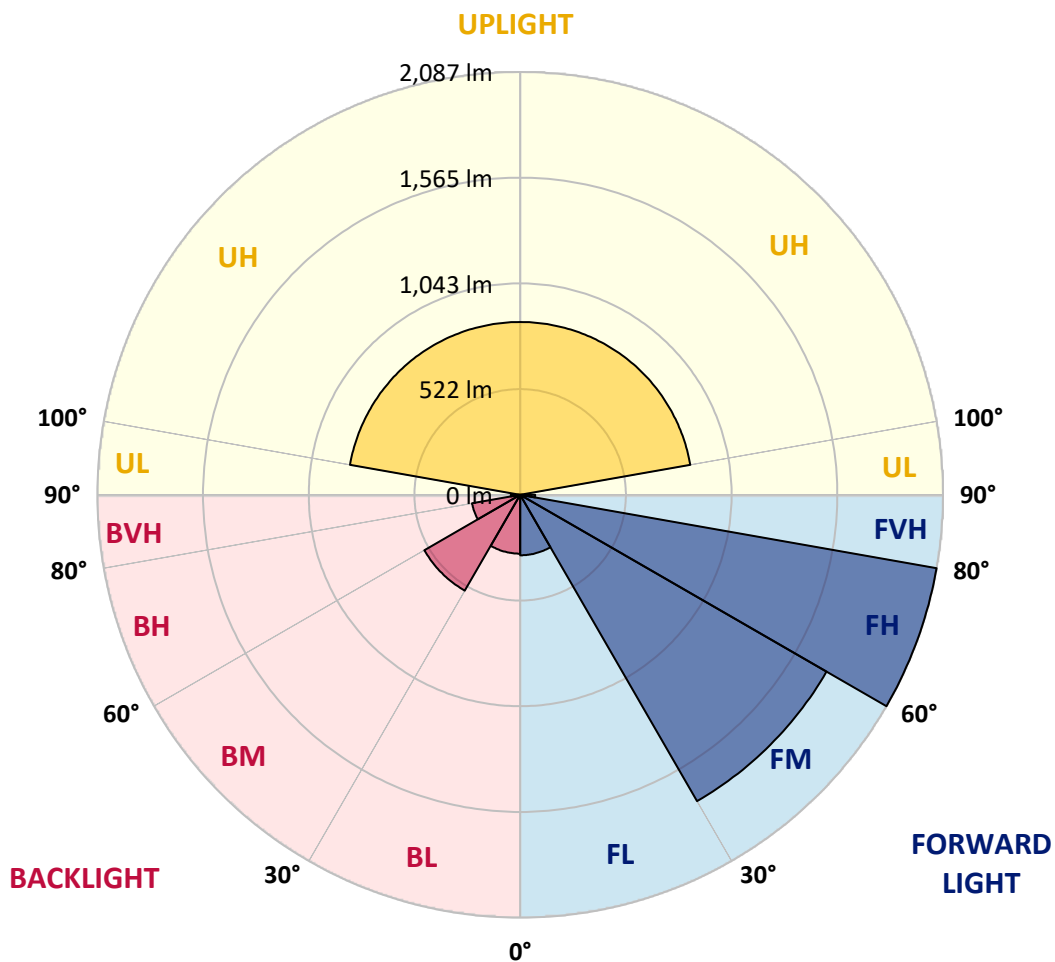
CATALOG NUMBER: IST-AF-1000-LED-E1-T4FT-7027-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.4	4.2			
FM	(30°-60°)	1745.5	24.8			
FH	(60°-80°)	2086.7	29.7			G2/5000
FVH	(80°-90°)	74.4	1.1			G1/100
BL	(0°-30°)	290.5	4.1	B1/500		
BM	(30°-60°)	546.2	7.8	B1/1000		
BH	(60°-80°)	241.1	3.4	B1/500		G1/500
BVH	(80°-90°)	46.4	0.7			G1/100
UL	(90°-100°)	10.7	0.2		U2/50	
UH	(100°-180°)	852.7	12.1		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
0°	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7
2.5°	754.5	756.0	757.6	757.6	757.6	759.9	759.1	759.1	759.9	760.7	760.7
5°	726.3	727.0	731.6	733.2	737.7	736.9	736.9	736.9	740.0	737.7	739.2
7.5°	694.2	695.6	700.3	705.6	709.4	710.2	709.4	708.0	711.7	713.3	711.7
10°	656.0	656.8	662.9	667.4	673.5	672.8	675.1	675.1	676.6	675.9	678.8
12.5°	636.9	635.4	632.2	634.7	636.1	636.1	636.1	638.4	637.7	639.2	641.5
15°	634.7	630.8	615.5	610.2	608.6	608.6	608.0	607.2	609.4	611.7	611.7
17.5°	645.3	637.7	608.0	592.6	589.6	588.0	588.7	587.2	587.2	590.4	589.6
20°	697.3	683.5	624.0	590.4	581.1	581.1	580.3	578.1	578.1	578.9	578.9
22.5°	829.3	811.8	708.0	638.4	606.4	605.5	603.3	601.0	594.9	593.4	590.4
25°	1013.4	992.8	814.9	740.0	695.0	693.4	681.9	680.5	665.9	666.7	656.8
27.5°	1156.2	1142.5	957.6	858.4	815.6	806.5	801.1	787.4	775.1	765.2	753.0
30°	1205.1	1202.8	1102.0	1021.8	957.6	946.9	932.4	926.3	908.7	895.0	886.5
32.5°	1282.2	1284.5	1242.4	1154.0	1098.2	1087.5	1075.2	1060.8	1048.5	1039.4	1019.5
35°	1392.1	1392.9	1363.9	1297.5	1233.4	1218.8	1211.9	1195.1	1183.7	1172.2	1162.2
37.5°	1468.5	1472.3	1451.8	1400.5	1362.4	1341.8	1341.0	1328.9	1315.7	1305.9	1296.7
40°	1615.2	1594.5	1526.6	1493.7	1462.4	1460.1	1453.3	1446.5	1449.4	1444.0	1454.1
42.5°	1763.4	1737.3	1642.6	1596.1	1577.0	1580.7	1578.5	1579.3	1588.5	1586.1	1596.8
45°	1890.0	1860.3	1770.2	1715.2	1730.5	1735.1	1748.0	1755.6	1751.9	1765.6	1765.6
47.5°	2016.9	1947.3	1840.4	1865.6	1876.3	1911.4	1920.7	1918.3	1931.4	1937.5	1920.7
50°	1927.5	1909.2	1900.7	1977.9	2025.9	2037.4	2050.4	2057.3	2063.5	2055.1	2038.3
52.5°	1738.8	1737.3	1855.7	2044.4	2084.9	2100.1	2112.4	2117.7	2115.4	2110.7	2097.0
55°	1675.5	1663.3	1765.6	1975.6	2037.4	2052.0	2069.5	2080.3	2091.0	2089.4	2078.7
57.5°	1761.8	1751.9	1752.6	1915.3	1975.6	1988.6	2000.1	2012.2	2015.3	2025.3	2025.9
60°	2012.2	1999.3	1894.6	1913.0	1974.0	1988.6	1990.1	1997.0	1997.8	2003.1	2003.8
62.5°	2373.5	2349.8	2190.2	2052.8	2074.2	2081.0	2086.3	2084.9	2081.7	2078.0	2078.0
65°	2769.0	2746.8	2541.5	2381.0	2319.2	2336.0	2309.4	2304.1	2297.9	2297.9	2290.9
67.5°	3239.5	3197.4	3038.7	2858.4	2769.0	2777.5	2789.7	2743.2	2726.3	2727.8	2692.0
70°	3719.1	3674.8	3605.3	3603.0	3648.1	3628.2	3571.8	3646.5	3558.0	3536.5	3528.9
72.5°	3454.1	3401.4	3415.9	3847.4	4252.0	4317.8	4380.5	4438.4	4490.4	4521.7	4526.3
73°	3251.0	3150.9	3254.8	3761.8	4210.9	4307.8	4385.7	4447.6	4503.3	4531.6	4549.2
75°	1623.6	1628.9	2140.6	3103.6	3680.2	3763.4	3884.8	3952.7	4053.5	4105.4	4059.7
77.5°	376.5	390.2	648.4	1473.1	2206.2	2325.4	2422.4	2521.6	2638.5	2682.0	2643.8
80°	132.9	139.0	228.3	559.7	921.0	986.7	1069.9	1179.1	1287.5	1314.3	1381.4
82.5°	70.2	77.2	120.6	242.8	393.3	430.0	451.3	496.4	534.6	557.5	569.6
85°	40.4	41.2	68.7	134.4	180.2	194.8	208.5	219.2	231.4	223.0	223.0
87.5°	16.0	17.6	35.1	63.4	87.0	96.9	96.9	96.9	96.2	84.8	77.2
90°	7.9	9.5	13.7	20.8	19.3	19.3	18.5	17.0	16.3	17.0	13.0
92.5°	4.0	4.0	4.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
95°	4.9	4.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	6.8	6.8	7.8	7.8	8.4	8.4	8.5	8.6	8.7	8.8	8.8
100°	7.8	7.8	8.8	9.8	10.8	11.0	11.2	11.4	11.6	11.8	12.7
102.5°	10.8	10.8	12.8	17.7	22.1	23.0	23.9	24.7	25.6	26.5	27.8
105°	20.6	21.6	26.5	35.3	41.2	42.4	43.6	44.7	45.9	47.1	48.6
107.5°	40.2	41.2	48.1	57.0	64.3	65.8	67.2	68.7	70.2	71.7	73.1



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CATALOG NUMBER: IST-AF-1000-LED-E1-T4FT-7027-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
110°	64.8	66.7	72.7	85.4	92.7	94.2	95.7	97.2	98.6	100.1	101.3
112.5°	97.2	97.2	104.0	118.8	125.1	126.4	127.6	129.0	130.3	131.5	132.4
115°	137.4	136.5	144.3	156.0	160.4	161.3	162.2	163.1	164.0	164.9	165.5
117.5°	180.6	180.6	185.5	193.3	195.8	196.3	196.8	197.3	197.8	198.3	198.5
120°	220.8	218.8	221.8	228.7	230.7	231.0	231.4	231.9	232.2	232.6	233.2
122.5°	258.2	255.2	256.2	262.0	264.0	264.4	264.8	265.2	265.6	266.0	266.5
125°	292.5	288.5	290.5	293.5	296.4	297.0	297.6	298.1	298.8	299.3	299.9
127.5°	323.9	322.9	322.9	326.8	329.8	330.4	330.9	331.6	332.1	332.7	332.8
130°	356.3	354.3	355.3	359.2	361.2	361.6	361.9	362.4	362.7	363.2	363.4
132.5°	388.7	386.7	385.7	393.5	395.1	395.3	395.6	396.0	396.2	396.5	396.6
135°	421.0	418.1	418.1	424.0	425.4	425.8	426.1	426.3	426.7	427.0	427.1
137.5°	451.5	448.5	450.5	451.5	453.5	453.8	454.3	454.6	455.0	455.4	455.8
140°	479.0	476.0	478.0	480.0	481.0	481.1	481.3	481.5	481.7	481.9	482.5
142.5°	508.4	505.5	507.5	508.4	509.9	510.1	510.5	510.8	511.0	511.3	511.8
145°	539.8	535.9	534.0	536.8	538.4	538.6	538.9	539.3	539.5	539.8	539.9
147.5°	564.3	561.4	560.5	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.5
150°	584.0	581.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
152.5°	599.7	596.7	596.7	597.7	598.2	598.3	598.5	598.5	598.6	598.7	598.7
155°	617.3	613.5	613.5	615.4	616.9	617.1	617.5	617.8	618.0	618.3	618.1
157.5°	634.0	631.1	631.1	632.0	633.0	633.2	633.5	633.7	633.8	634.0	633.9
160°	650.7	647.8	646.8	643.8	643.4	643.3	643.2	643.1	643.0	642.8	642.8
162.5°	660.5	656.6	656.6	652.7	650.7	650.4	649.9	649.6	649.1	648.8	648.9
165°	668.4	665.5	663.5	663.5	662.1	661.7	661.4	661.2	660.8	660.5	660.5
167.5°	677.2	674.3	671.3	673.3	674.3	674.4	674.6	674.9	675.1	675.3	675.0
170°	685.0	682.2	679.2	679.2	679.7	679.7	679.8	679.9	680.1	680.2	679.9
172.5°	686.0	684.1	682.2	680.2	678.7	678.4	678.1	677.8	677.5	677.2	677.2
175°	687.0	685.0	684.1	682.2	680.2	679.7	679.4	679.0	678.6	678.2	678.1
177.5°	693.9	692.0	687.0	686.0	685.0	684.9	684.7	684.5	684.3	684.1	683.9
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
0°	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7
2.5°	762.1	762.9	761.3	764.5	762.1	762.1	766.0	772.8	778.2	779.7	784.3
5°	740.7	741.6	741.6	742.3	741.6	743.1	749.9	756.0	766.7	772.0	778.9
7.5°	713.3	715.6	714.8	716.3	716.3	717.8	728.5	738.5	749.2	759.1	767.5
10°	680.5	681.9	685.0	683.5	683.5	688.0	699.5	714.1	727.0	741.6	751.4
12.5°	641.5	645.3	644.5	647.6	649.1	652.2	671.2	687.3	703.4	720.1	733.2
15°	610.9	613.3	614.8	615.5	615.5	622.3	641.5	661.3	682.7	702.6	716.3
17.5°	591.1	591.1	592.6	593.4	594.9	599.5	619.3	641.5	665.9	690.3	705.6
20°	579.7	579.7	580.3	581.1	581.1	586.5	604.8	630.0	656.8	688.0	706.3
22.5°	588.7	586.5	585.8	585.8	582.7	582.7	600.2	626.9	660.5	701.0	724.8
25°	651.5	644.5	633.8	631.6	627.7	609.4	607.2	637.7	678.8	729.3	765.2
27.5°	745.3	738.5	731.6	723.1	717.0	683.5	637.7	665.1	714.1	785.7	830.1
30°	868.3	854.6	844.7	835.4	808.7	772.0	701.0	708.0	768.2	864.5	920.2
32.5°	1005.7	991.2	976.0	954.6	947.7	888.2	797.2	778.9	837.0	956.2	1014.2
35°	1138.6	1131.8	1121.1	1112.7	1096.7	1047.0	922.5	864.5	916.5	1063.9	1108.9
37.5°	1292.9	1279.9	1280.6	1273.8	1264.6	1222.6	1052.4	967.6	1001.9	1166.9	1195.1
40°	1444.8	1441.8	1446.5	1435.0	1419.6	1363.2	1147.9	1043.2	1091.4	1266.3	1259.3
42.5°	1588.5	1590.7	1585.4	1572.4	1555.5	1460.9	1208.8	1107.3	1171.5	1353.3	1310.4
45°	1752.6	1744.1	1722.1	1699.1	1678.6	1544.9	1241.7	1179.1	1248.6	1447.2	1362.4
47.5°	1907.6	1874.9	1855.7	1820.5	1780.1	1621.4	1286.0	1254.8	1334.2	1535.7	1412.0
50°	2021.5	1990.8	1958.8	1916.1	1873.2	1687.7	1344.9	1340.2	1431.1	1635.1	1480.0
52.5°	2073.4	2045.1	2013.8	1970.3	1927.5	1735.9	1423.5	1423.5	1545.6	1766.3	1573.9
55°	2064.9	2044.4	2016.9	1977.1	1944.3	1761.8	1504.4	1515.1	1689.3	1908.4	1682.3
57.5°	2020.6	2009.1	1993.2	1965.7	1938.9	1781.7	1599.9	1606.8	1881.7	2045.1	1784.8
60°	2005.4	2000.9	1991.6	1975.6	1955.0	1825.2	1701.5	1716.8	2097.0	2170.3	1842.7
62.5°	2073.4	2064.1	2057.3	2041.3	2022.3	1932.1	1828.9	1833.6	2299.4	2185.7	1786.2
65°	2264.3	2247.5	2236.0	2214.6	2193.2	2093.2	1991.6	1942.0	2398.7	2042.8	1594.5
67.5°	2664.5	2637.0	2604.1	2563.7	2504.8	2414.7	2152.8	1957.2	2308.6	1730.5	1257.8
70°	3455.6	3396.0	3320.5	3234.2	3212.0	2949.2	2253.6	1844.3	1919.0	1208.8	834.0
72.5°	4518.7	4456.9	4389.6	4318.5	4178.1	3600.7	2209.3	1487.6	1193.6	621.6	397.1
73°	4536.2	4494.2	4413.2	4330.8	4216.3	3589.3	2161.2	1371.5	1052.4	489.5	325.4
75°	4068.1	4051.3	3971.9	3812.9	3716.0	3031.8	1591.4	795.0	460.5	302.4	211.6
77.5°	2640.0	2621.6	2576.6	2561.3	2382.7	1965.7	712.4	309.3	250.4	200.8	149.7
80°	1406.7	1321.1	1305.9	1244.8	1114.2	756.8	243.6	189.5	166.5	134.4	104.7
82.5°	570.4	533.9	520.1	471.3	443.0	226.8	122.2	131.3	111.5	79.4	64.2
85°	210.0	193.2	188.6	153.5	135.1	67.2	74.9	92.3	69.5	44.3	32.1
87.5°	72.5	62.6	54.2	42.0	39.0	27.5	41.2	50.5	44.3	26.7	15.3
90°	12.9	12.1	11.3	10.4	11.0	9.9	11.5	15.7	16.5	11.5	9.9
92.5°	5.9	5.9	5.9	5.9	5.9	5.9	6.8	6.8	5.9	5.9	5.9
95°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.8	6.8	6.8	6.8
97.5°	8.8	8.8	8.8	8.8	8.8	8.8	11.8	9.8	8.8	7.8	7.8
100°	13.6	14.5	15.3	16.2	17.1	20.6	28.5	25.5	22.5	18.7	18.7
102.5°	29.0	30.4	31.6	32.9	34.1	39.3	49.0	46.2	41.2	38.3	37.3
105°	50.0	51.6	53.0	54.4	56.0	61.8	70.7	68.7	63.8	59.8	59.8
107.5°	74.6	76.1	77.5	79.1	80.5	86.3	93.2	92.3	88.3	85.4	84.4



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CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
110°	102.5	103.7	104.8	106.0	107.2	111.9	117.8	118.8	116.8	113.8	114.8
112.5°	133.3	134.2	135.0	135.9	136.8	140.3	145.3	147.2	146.2	144.3	144.3
115°	166.1	166.6	167.3	167.8	168.4	170.8	175.7	178.7	175.7	173.7	174.7
117.5°	198.9	199.2	199.4	199.7	200.1	201.2	207.1	211.0	206.1	204.2	205.2
120°	233.8	234.4	235.0	235.5	236.2	238.5	241.5	245.3	240.5	238.5	238.5
122.5°	267.2	267.8	268.3	269.0	269.5	271.8	273.8	277.8	272.8	270.9	271.8
125°	300.3	300.8	301.3	301.8	302.3	304.3	307.2	309.2	304.3	304.3	304.3
127.5°	332.9	333.0	333.1	333.2	333.3	333.7	338.6	339.6	339.6	338.6	340.5
130°	363.5	363.7	363.9	364.2	364.4	365.1	370.0	374.0	374.0	372.0	373.0
132.5°	396.7	396.8	396.9	397.1	397.1	397.5	403.4	408.3	406.3	406.3	407.3
135°	427.3	427.5	427.8	428.0	428.1	428.9	434.8	439.7	438.7	441.7	442.7
137.5°	456.2	456.6	457.0	457.3	457.8	459.3	464.2	466.2	467.2	472.1	473.0
140°	483.1	483.6	484.3	484.8	485.4	487.8	490.7	492.7	494.7	499.5	501.5
142.5°	512.1	512.6	512.9	513.3	513.7	515.3	517.2	523.2	523.2	524.1	526.0
145°	540.0	540.2	540.2	540.3	540.4	540.8	545.7	551.6	550.6	547.7	549.7
147.5°	563.6	563.7	563.8	563.9	564.0	564.3	569.3	574.2	575.2	572.2	574.2
150°	582.0	582.0	582.0	582.0	582.0	582.0	586.0	588.9	591.8	594.8	598.7
152.5°	598.7	598.7	598.7	598.7	598.7	598.7	599.7	602.7	606.5	611.5	616.3
155°	617.9	617.8	617.6	617.3	617.1	616.3	614.4	619.3	624.2	626.2	629.2
157.5°	633.8	633.8	633.7	633.6	633.5	633.0	632.0	636.0	638.0	638.0	642.8
160°	642.8	642.8	642.8	642.8	642.8	642.8	645.8	651.7	648.8	647.8	653.7
162.5°	649.1	649.4	649.6	649.7	649.9	650.7	654.7	658.5	657.6	655.7	661.5
165°	660.5	660.5	660.5	660.5	660.5	660.5	659.5	664.5	667.4	665.5	669.3
167.5°	674.6	674.4	674.1	673.8	673.5	672.3	665.5	671.3	675.3	675.3	681.2
170°	679.7	679.6	679.4	679.2	679.0	678.2	673.3	676.2	681.2	683.1	688.0
172.5°	677.2	677.2	677.2	677.2	677.2	677.2	676.2	679.2	681.2	683.1	688.0
175°	678.0	678.0	677.8	677.7	677.6	677.2	677.2	682.2	683.1	681.2	686.0
177.5°	683.7	683.5	683.3	683.1	682.9	682.2	681.2	686.0	688.0	685.0	689.0
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7
2.5°	785.7	788.9	795.0	799.5	803.4	808.7	810.2	813.3	809.6	814.0
5°	782.7	791.9	803.4	814.0	823.9	832.4	836.2	837.0	837.8	840.8
7.5°	775.1	788.9	807.1	821.7	837.0	842.3	844.7	845.3	840.1	842.3
10°	759.9	782.1	804.9	822.5	830.1	826.4	820.2	810.2	805.7	805.7
12.5°	743.1	771.4	798.1	807.9	801.1	786.6	769.8	751.4	744.5	744.5
15°	729.3	765.2	787.4	780.4	760.7	733.2	710.2	691.2	685.0	682.7
17.5°	721.7	762.1	770.6	749.2	715.6	681.2	658.3	642.3	636.9	636.9
20°	727.8	765.2	751.4	711.7	669.8	638.4	618.6	608.0	602.5	604.8
22.5°	753.8	776.7	734.6	675.1	624.0	597.2	588.0	581.1	580.3	581.9
25°	797.2	791.9	720.1	636.9	581.1	562.1	561.4	559.0	558.3	557.5
27.5°	853.7	811.0	702.6	594.0	538.4	529.2	533.9	533.1	532.2	533.1
30°	928.6	827.8	676.6	547.6	497.9	497.9	504.8	502.5	499.5	500.2
32.5°	998.1	840.1	636.9	495.7	465.8	467.4	469.6	463.5	455.9	457.5
35°	1057.7	840.1	583.4	449.1	433.1	433.1	434.5	429.2	423.1	420.8
37.5°	1107.3	823.3	516.3	413.8	406.2	406.2	412.4	407.0	395.5	393.3
40°	1137.2	786.6	454.5	388.0	393.3	394.1	385.6	376.5	365.8	363.5
42.5°	1156.2	733.2	405.6	369.7	384.9	378.7	359.0	344.4	343.6	346.7
45°	1173.0	672.8	366.6	351.2	375.7	362.7	336.1	322.2	326.8	329.9
47.5°	1189.7	612.5	335.2	330.7	359.0	349.8	321.5	306.2	304.0	308.5
50°	1229.5	528.5	299.3	306.2	338.3	335.2	308.5	290.9	276.5	275.7
52.5°	1283.0	416.3	268.9	284.9	322.2	326.8	294.0	277.1	257.4	254.3
55°	1342.6	319.2	243.6	268.1	307.0	314.7	288.6	263.5	242.1	238.9
57.5°	1360.1	252.1	219.9	244.4	286.4	303.2	280.3	247.4	231.4	228.3
60°	1299.8	209.2	200.1	224.6	265.8	291.7	267.2	235.2	220.7	218.4
62.5°	1115.8	184.8	189.5	211.6	250.4	281.0	257.4	226.0	214.5	213.1
65°	851.5	168.1	180.2	200.8	236.7	271.1	250.4	222.2	213.1	211.6
67.5°	534.6	155.8	171.0	189.5	223.0	260.4	245.1	217.7	210.7	208.5
70°	296.4	142.8	158.8	176.3	209.2	250.4	238.3	210.7	210.0	205.4
72.5°	180.2	129.1	145.9	162.6	193.9	238.3	226.0	202.4	194.8	185.6
73°	171.8	127.5	142.8	159.6	190.1	235.2	223.8	199.3	191.7	182.5
75°	139.0	114.5	130.6	145.1	176.3	223.0	210.7	188.6	176.3	169.5
77.5°	102.4	97.7	113.1	126.8	158.8	206.3	192.5	172.6	158.1	154.3
80°	75.5	80.9	95.5	107.7	139.8	189.5	173.4	154.3	145.1	140.6
82.5°	51.1	62.6	76.4	86.2	123.7	171.0	153.5	135.1	141.2	117.6
85°	29.7	43.6	55.0	67.2	99.4	152.7	133.7	115.3	100.8	90.9
87.5°	19.9	24.4	33.6	45.8	71.8	119.9	106.2	90.1	65.7	65.7
90°	9.2	11.9	13.5	12.1	16.8	59.0	43.0	48.9	12.6	11.8
92.5°	5.9	5.9	6.8	6.8	5.9	5.9	5.9	4.9	4.0	4.0
95°	6.8	6.8	7.8	6.8	6.8	6.8	6.8	5.9	4.9	4.9
97.5°	7.8	8.8	9.8	11.8	8.8	8.8	7.8	7.8	6.8	6.8
100°	18.7	22.5	25.5	28.5	20.6	11.8	9.8	8.8	7.8	7.8
102.5°	38.3	41.2	46.2	49.0	39.3	26.5	17.7	12.8	10.8	10.8
105°	59.8	63.8	68.7	70.7	61.8	47.1	35.3	26.5	21.6	20.6
107.5°	85.4	88.3	92.3	93.2	86.3	71.7	57.0	48.1	41.2	40.2



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CATALOG NUMBER: IST-AF-1000-LED-E1-T4FT-7027-ULG

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	113.8	116.8	118.8	117.8	111.9	100.1	85.4	72.7	66.7	64.8
112.5°	144.3	146.2	147.2	145.3	140.3	131.5	118.8	104.0	97.2	97.2
115°	173.7	175.7	178.7	175.7	170.8	164.9	156.0	144.3	136.5	137.4
117.5°	204.2	206.1	211.0	207.1	201.2	198.3	193.3	185.5	180.6	180.6
120°	238.5	240.5	245.3	241.5	238.5	232.6	228.7	221.8	218.8	220.8
122.5°	270.9	272.8	277.8	273.8	271.8	266.0	262.0	256.2	255.2	258.2
125°	304.3	304.3	309.2	307.2	304.3	299.3	293.5	290.5	288.5	292.5
127.5°	338.6	339.6	339.6	338.6	333.7	332.7	326.8	322.9	322.9	323.9
130°	372.0	374.0	374.0	370.0	365.1	363.2	359.2	355.3	354.3	356.3
132.5°	406.3	406.3	408.3	403.4	397.5	396.5	393.5	385.7	386.7	388.7
135°	441.7	438.7	439.7	434.8	428.9	427.0	424.0	418.1	418.1	421.0
137.5°	472.1	467.2	466.2	464.2	459.3	455.4	451.5	450.5	448.5	451.5
140°	499.5	494.7	492.7	490.7	487.8	481.9	480.0	478.0	476.0	479.0
142.5°	524.1	523.2	523.2	517.2	515.3	511.3	508.4	507.5	505.5	508.4
145°	547.7	550.6	551.6	545.7	540.8	539.8	536.8	534.0	535.9	539.8
147.5°	572.2	575.2	574.2	569.3	564.3	563.3	563.3	560.5	561.4	564.3
150°	594.8	591.8	588.9	586.0	582.0	582.0	582.0	582.0	581.0	584.0
152.5°	611.5	606.5	602.7	599.7	598.7	598.7	597.7	596.7	596.7	599.7
155°	626.2	624.2	619.3	614.4	616.3	618.3	615.4	613.5	613.5	617.3
157.5°	638.0	638.0	636.0	632.0	633.0	634.0	632.0	631.1	631.1	634.0
160°	647.8	648.8	651.7	645.8	642.8	642.8	643.8	646.8	647.8	650.7
162.5°	655.7	657.6	658.5	654.7	650.7	648.8	652.7	656.6	656.6	660.5
165°	665.5	667.4	664.5	659.5	660.5	660.5	663.5	663.5	665.5	668.4
167.5°	675.3	675.3	671.3	665.5	672.3	675.3	673.3	671.3	674.3	677.2
170°	683.1	681.2	676.2	673.3	678.2	680.2	679.2	679.2	682.2	685.0
172.5°	683.1	681.2	679.2	676.2	677.2	677.2	680.2	682.2	684.1	686.0
175°	681.2	683.1	682.2	677.2	677.2	678.2	682.2	684.1	685.0	687.0
177.5°	685.0	688.0	686.0	681.2	682.2	684.1	686.0	687.0	692.0	693.9
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0

(END OF REPORT)