

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: P226580

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226580
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-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW, WITH UPLIGHT GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8051.5 lumens
Efficiency: N/A
Efficacy: 112.9 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

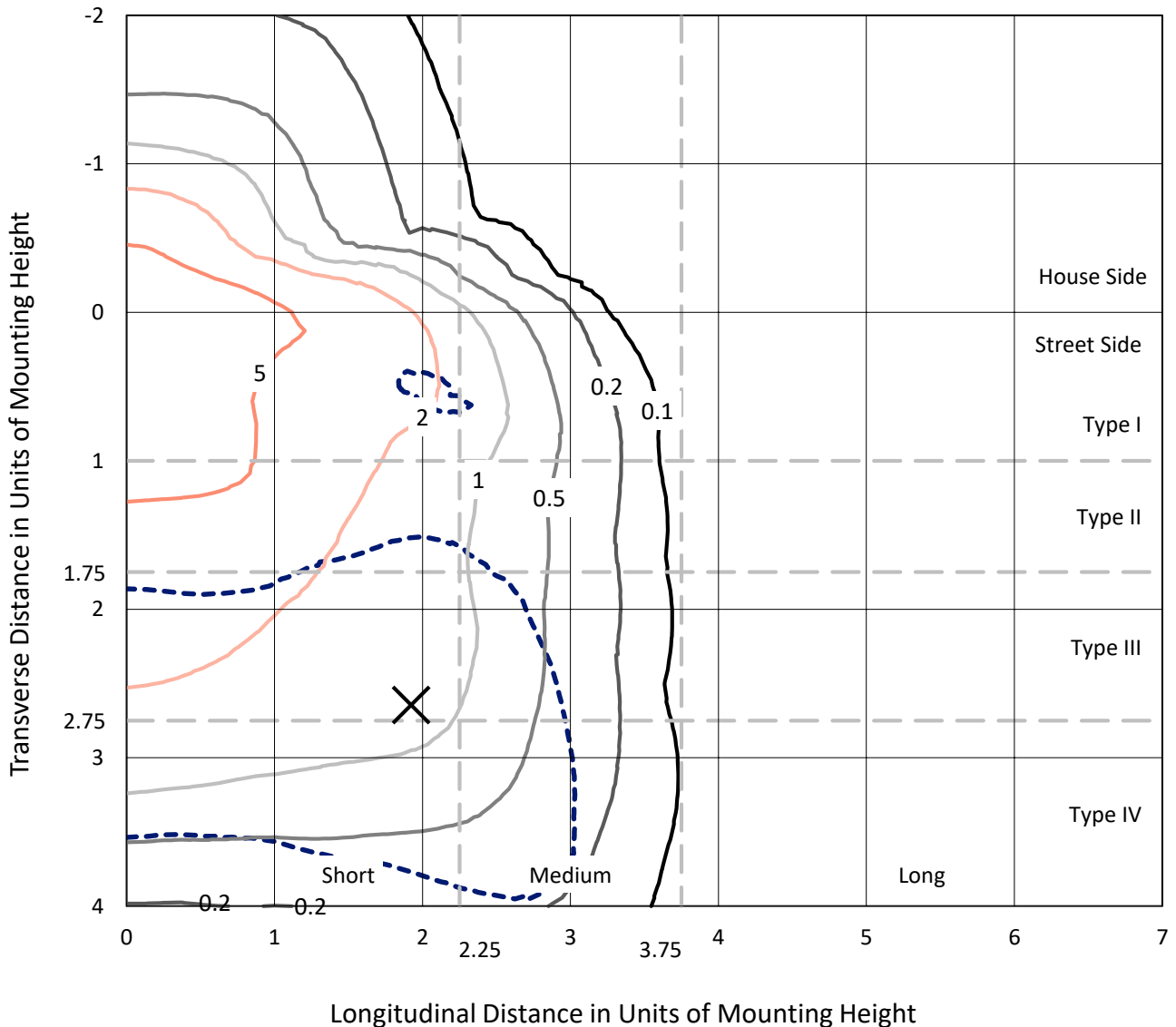


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

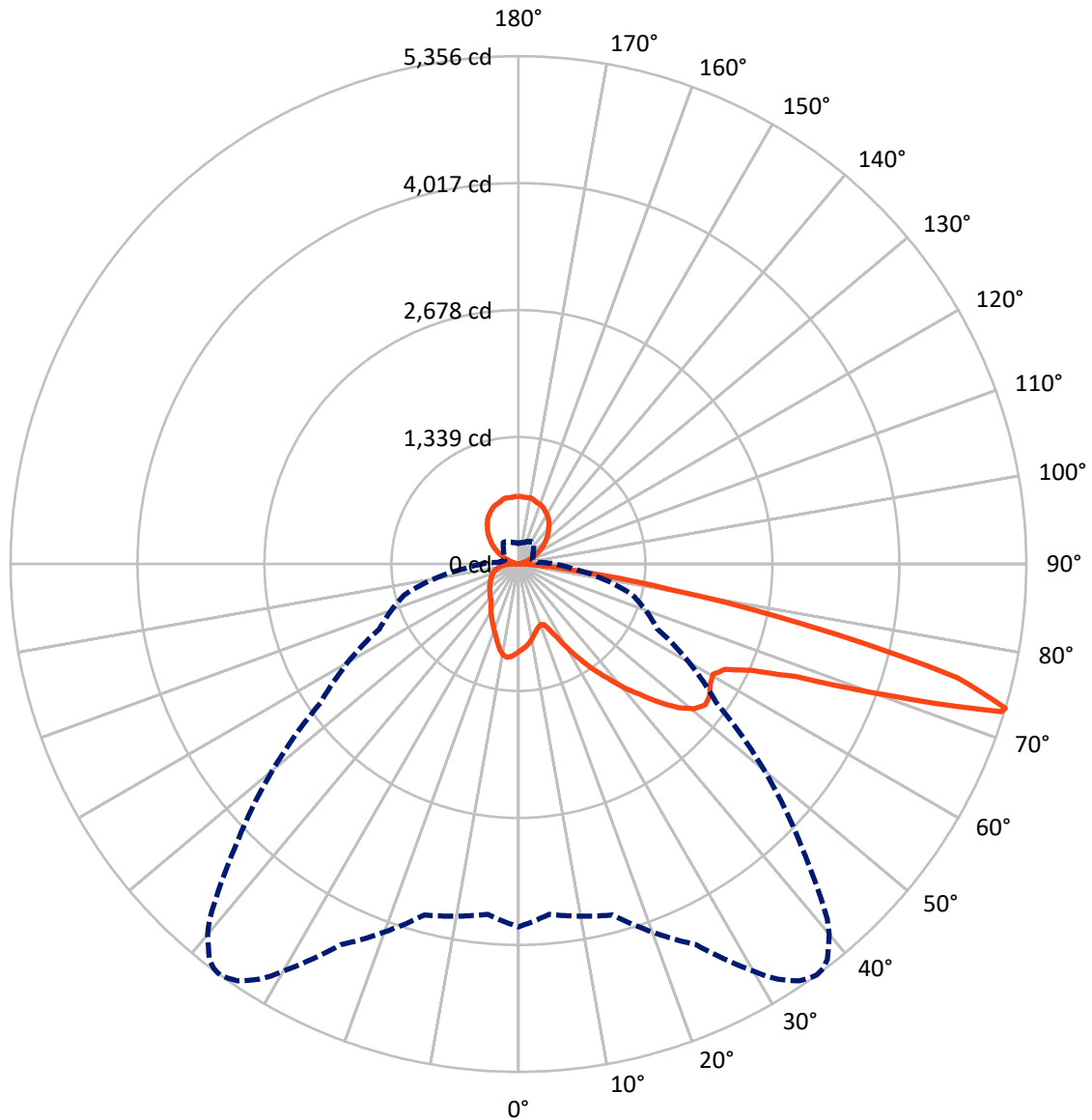


Based on 10 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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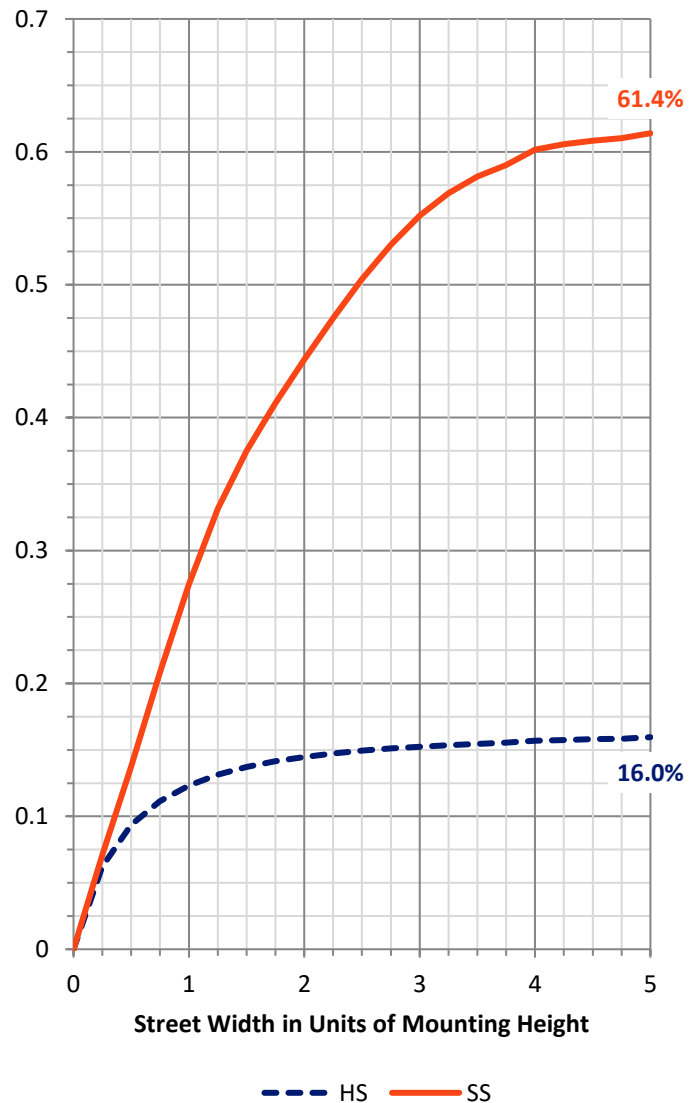
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1323.7	888.9	2212.7
	% Fixture	16.4	11.0	27.5
Street Side	Lumens	4950.9	888.0	5838.9
	% Fixture	61.5	11.0	72.5
Total	Lumens	6274.6	1776.9	8051.5
	% Fixture	77.9	22.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.1
10°-20°	229.9	2.9
20°-30°	376.8	4.7
30°-40°	624.2	7.8
40°-50°	917.4	11.4
50°-60°	1156.7	14.4
60°-70°	1514.7	18.8
70°-80°	1226.1	15.2
80°-90°	142.1	1.8
90°-100°	11.4	0.1
100°-110°	58.7	0.7
110°-120°	169.9	2.1
120°-130°	279.4	3.5
130°-140°	344.6	4.3
140°-150°	352.5	4.4
150°-160°	297.0	3.7
160°-170°	195.5	2.4
170°-180°	67.8	0.8
0°-90°	6274.6	77.9
0°-180°	8051.5	100.0



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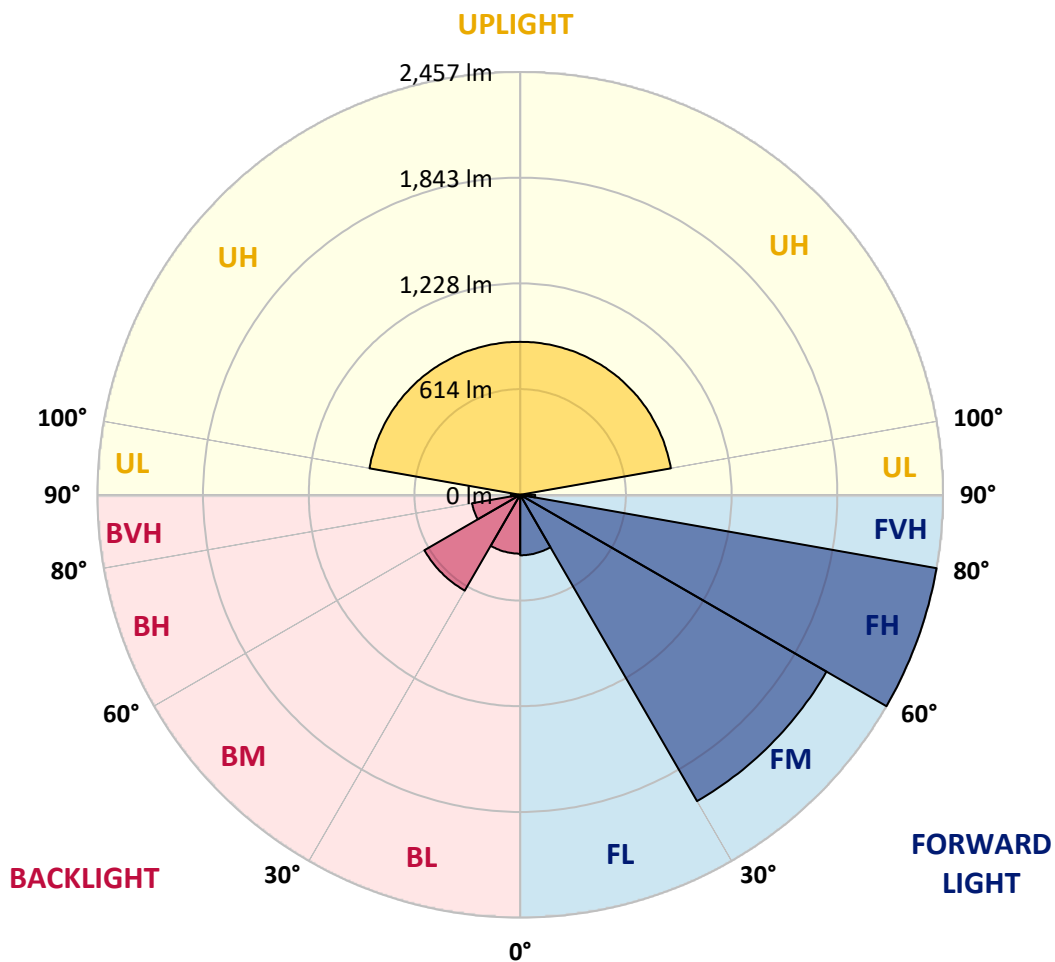
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.3	4.4			
FM	(30°-60°)	2055.1	25.5			
FH	(60°-80°)	2456.9	30.5			G2/5000
FVH	(80°-90°)	87.5	1.1			G1/100
BL	(0°-30°)	342.1	4.2	B1/500		
BM	(30°-60°)	643.1	8.0	B1/1000		
BH	(60°-80°)	283.9	3.5	B1/500		G1/500
BVH	(80°-90°)	54.6	0.7			G1/100
UL	(90°-100°)	11.4	0.1		U2/50	
UH	(100°-180°)	888.9	11.0		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°	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7
2.5°	888.3	890.2	892.0	892.0	892.0	894.7	893.8	893.8	894.7	895.6	895.6
5°	855.1	856.0	861.4	863.2	868.6	867.7	867.7	867.7	871.2	868.6	870.4
7.5°	817.3	819.2	824.5	830.8	835.3	836.3	835.3	833.5	838.0	839.8	838.0
10°	772.3	773.2	780.5	785.8	793.1	792.2	794.8	794.8	796.7	795.8	799.3
12.5°	749.9	748.1	744.5	747.2	749.0	749.0	749.0	751.7	750.8	752.6	755.2
15°	747.2	742.7	724.8	718.4	716.7	716.7	715.8	714.8	717.5	720.3	720.3
17.5°	759.7	750.8	715.8	697.8	694.2	692.3	693.3	691.4	691.4	695.1	694.2
20°	820.9	804.8	734.6	695.1	684.3	684.3	683.3	680.7	680.7	681.6	681.6
22.5°	976.5	955.8	833.5	751.7	713.9	713.0	710.3	707.7	700.4	698.7	695.1
25°	1193.2	1168.9	959.4	871.2	818.3	816.4	802.9	801.2	784.1	785.0	773.2
27.5°	1361.3	1345.2	1127.5	1010.7	960.3	949.5	943.3	927.0	912.7	900.9	886.6
30°	1418.8	1416.2	1297.5	1203.1	1127.5	1114.9	1097.8	1090.7	1070.0	1053.8	1043.9
32.5°	1509.7	1512.4	1462.9	1358.6	1293.0	1280.4	1266.0	1248.9	1234.5	1223.8	1200.3
35°	1639.2	1640.1	1605.9	1527.7	1452.2	1435.1	1426.9	1407.2	1393.7	1380.2	1368.5
37.5°	1729.1	1733.6	1709.4	1649.1	1604.1	1579.8	1578.9	1564.5	1549.3	1537.6	1526.8
40°	1901.8	1877.4	1797.4	1758.8	1721.9	1719.2	1711.1	1703.0	1706.6	1700.3	1712.0
42.5°	2076.2	2045.6	1934.1	1879.3	1856.8	1861.3	1858.6	1859.4	1870.3	1867.6	1880.2
45°	2225.4	2190.3	2084.3	2019.5	2037.5	2042.9	2058.2	2067.2	2062.7	2078.8	2078.8
47.5°	2374.7	2292.8	2167.0	2196.7	2209.3	2250.6	2261.3	2258.7	2274.0	2281.2	2261.3
50°	2269.5	2247.9	2238.0	2328.8	2385.4	2398.9	2414.3	2422.3	2429.5	2419.6	2399.8
52.5°	2047.3	2045.6	2184.9	2407.0	2454.7	2472.7	2487.1	2493.3	2490.7	2485.3	2469.1
55°	1972.8	1958.3	2078.8	2326.1	2398.9	2416.0	2436.8	2449.4	2461.9	2460.1	2447.5
57.5°	2074.3	2062.7	2063.6	2255.1	2326.1	2341.4	2354.9	2369.3	2372.8	2384.6	2385.4
60°	2369.3	2354.0	2230.9	2252.4	2324.3	2341.4	2343.2	2351.3	2352.2	2358.5	2359.4
62.5°	2794.6	2766.7	2578.8	2416.9	2442.1	2450.2	2456.5	2454.7	2451.1	2446.6	2446.6
65°	3260.3	3234.3	2992.4	2803.6	2730.8	2750.5	2719.1	2712.8	2705.6	2705.6	2697.5
67.5°	3814.3	3764.8	3577.8	3365.5	3260.3	3270.3	3284.6	3229.8	3210.0	3211.8	3169.5
70°	4378.9	4326.8	4244.9	4242.3	4295.3	4271.9	4205.4	4293.5	4189.2	4164.0	4155.0
72.5°	4066.9	4004.9	4021.9	4529.9	5006.5	5083.9	5157.6	5225.9	5287.0	5323.9	5329.3
73°	3827.7	3709.9	3832.2	4429.3	4957.9	5072.2	5163.9	5236.7	5302.4	5335.6	5356.3
75°	1911.6	1917.9	2520.3	3654.2	4333.0	4431.0	4574.0	4654.0	4772.8	4833.9	4779.9
77.5°	443.2	459.5	763.4	1734.5	2597.7	2737.9	2852.1	2969.0	3106.6	3157.8	3112.8
80°	156.4	163.7	268.8	659.1	1084.4	1161.7	1259.8	1388.3	1516.0	1547.4	1626.6
82.5°	82.8	90.8	142.1	285.9	463.1	506.3	531.4	584.4	629.4	656.4	670.7
85°	47.7	48.6	80.9	158.3	212.2	229.2	245.5	258.1	272.4	262.6	262.6
87.5°	18.9	20.7	41.3	74.7	102.5	114.2	114.2	114.2	113.3	99.8	90.8
90°	8.7	10.5	15.2	23.4	21.7	21.7	20.8	18.9	18.1	18.9	14.4
92.5°	4.1	4.1	5.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
95°	5.1	5.1	6.1	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	7.2	7.2	8.2	8.2	8.7	8.8	8.9	9.0	9.1	9.2	9.2
100°	8.2	8.2	9.2	10.2	11.3	11.5	11.7	11.9	12.1	12.3	13.2
102.5°	11.3	11.3	13.3	18.4	23.0	23.9	24.9	25.8	26.7	27.6	28.9
105°	21.5	22.5	27.6	36.8	43.0	44.2	45.4	46.6	47.9	49.1	50.6
107.5°	41.9	43.0	50.1	59.3	67.0	68.5	70.1	71.6	73.1	74.7	76.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
110°	67.5	69.6	75.7	89.0	96.7	98.2	99.7	101.3	102.8	104.3	105.6
112.5°	101.3	101.3	108.4	123.8	130.4	131.8	133.1	134.4	135.7	137.1	138.0
115°	143.2	142.2	150.4	162.6	167.3	168.2	169.1	170.0	170.9	171.9	172.5
117.5°	188.2	188.2	193.3	201.5	204.1	204.6	205.1	205.6	206.1	206.6	206.9
120°	230.2	228.1	231.2	238.3	240.4	240.8	241.2	241.6	242.0	242.4	243.1
122.5°	269.0	266.0	267.0	273.1	275.2	275.6	276.0	276.4	276.8	277.2	277.8
125°	304.8	300.7	302.8	305.9	308.9	309.5	310.2	310.8	311.4	312.0	312.5
127.5°	337.6	336.6	336.6	340.6	343.7	344.3	344.9	345.6	346.2	346.8	346.9
130°	371.3	369.3	370.3	374.4	376.4	376.9	377.3	377.7	378.1	378.5	378.7
132.5°	405.1	403.0	402.0	410.2	411.7	412.0	412.4	412.7	413.0	413.3	413.4
135°	438.8	435.8	435.8	441.9	443.4	443.8	444.1	444.4	444.7	445.0	445.2
137.5°	470.6	467.5	469.5	470.6	472.6	473.0	473.4	473.8	474.2	474.6	475.1
140°	499.2	496.1	498.2	500.2	501.2	501.5	501.7	501.9	502.1	502.3	502.9
142.5°	529.9	526.8	528.9	529.9	531.4	531.7	532.0	532.3	532.7	533.0	533.4
145°	562.6	558.5	556.5	559.6	561.1	561.4	561.7	562.0	562.3	562.6	562.7
147.5°	588.2	585.1	584.1	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.3
150°	608.7	605.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6
152.5°	625.0	622.0	622.0	623.0	623.5	623.6	623.7	623.8	623.9	624.0	624.0
155°	643.4	639.3	639.3	641.4	642.9	643.2	643.5	643.8	644.2	644.5	644.3
157.5°	660.8	657.8	657.8	658.8	659.8	660.0	660.2	660.4	660.6	660.8	660.7
160°	678.2	675.1	674.1	671.1	670.5	670.4	670.3	670.2	670.1	670.0	670.0
162.5°	688.4	684.4	684.4	680.3	678.2	677.8	677.4	677.0	676.6	676.2	676.4
165°	696.6	693.6	691.5	691.5	690.0	689.7	689.4	689.1	688.8	688.4	688.4
167.5°	705.8	702.8	699.7	701.7	702.8	703.0	703.2	703.4	703.6	703.8	703.5
170°	714.0	711.0	707.9	707.9	708.4	708.5	708.6	708.7	708.8	708.9	708.7
172.5°	715.0	713.0	711.0	708.9	707.4	707.1	706.8	706.4	706.1	705.8	705.8
175°	716.1	714.0	713.0	711.0	708.9	708.5	708.1	707.7	707.3	706.9	706.8
177.5°	723.2	721.2	716.1	715.0	714.0	713.8	713.6	713.4	713.2	713.0	712.8
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



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CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
0°	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7
2.5°	897.3	898.3	896.4	900.1	897.3	897.3	901.8	909.9	916.3	918.0	923.4
5°	872.2	873.1	873.1	874.0	873.1	874.9	883.0	890.2	902.8	909.1	917.2
7.5°	839.8	842.5	841.6	843.4	843.4	845.2	857.8	869.5	882.1	893.8	903.7
10°	801.2	802.9	806.5	804.8	804.8	810.2	823.7	840.8	856.0	873.1	884.8
12.5°	755.2	759.7	758.9	762.5	764.2	767.9	790.3	809.3	828.1	847.9	863.2
15°	719.3	722.0	723.8	724.8	724.8	732.8	755.2	778.7	803.8	827.3	843.4
17.5°	695.9	695.9	697.8	698.7	700.4	705.8	729.3	755.2	784.1	812.8	830.8
20°	682.4	682.4	683.3	684.3	684.3	690.6	712.2	741.8	773.2	810.2	831.8
22.5°	693.3	690.6	689.7	689.7	686.1	686.1	706.8	738.2	777.7	825.4	853.3
25°	767.0	758.9	746.3	743.6	739.1	717.5	714.8	750.8	799.3	858.7	900.9
27.5°	877.6	869.5	861.4	851.5	844.3	804.8	750.8	783.2	840.8	925.3	977.4
30°	1022.3	1006.2	994.5	983.7	952.2	909.1	825.4	833.5	904.6	1017.8	1083.5
32.5°	1184.2	1167.1	1149.1	1123.9	1115.8	1045.8	938.8	917.2	985.5	1125.8	1194.1
35°	1340.7	1332.6	1320.0	1310.1	1291.2	1232.8	1086.2	1017.8	1079.0	1252.5	1305.6
37.5°	1522.3	1507.0	1507.9	1499.7	1489.0	1439.6	1239.0	1139.3	1179.7	1373.9	1407.2
40°	1701.2	1697.6	1703.0	1689.5	1671.5	1605.0	1351.4	1228.3	1284.9	1490.8	1482.7
42.5°	1870.3	1872.9	1866.7	1851.3	1831.6	1720.1	1423.3	1303.8	1379.3	1593.3	1542.9
45°	2063.6	2053.7	2027.6	2000.6	1976.3	1819.0	1462.0	1388.3	1470.1	1703.9	1604.1
47.5°	2246.1	2207.4	2184.9	2143.6	2095.9	1908.9	1514.2	1477.3	1570.8	1808.2	1662.5
50°	2380.1	2344.1	2306.3	2256.0	2205.7	1987.2	1583.4	1578.0	1685.0	1925.1	1742.6
52.5°	2441.2	2407.9	2371.1	2319.8	2269.5	2043.8	1676.0	1676.0	1819.9	2079.8	1853.2
55°	2431.3	2407.0	2374.7	2327.9	2289.3	2074.3	1771.3	1783.9	1988.9	2247.0	1980.8
57.5°	2379.2	2365.7	2346.9	2314.4	2282.9	2097.8	1883.8	1891.8	2215.5	2407.9	2101.3
60°	2361.2	2355.8	2345.0	2326.1	2301.8	2149.0	2003.3	2021.4	2469.1	2555.4	2169.7
62.5°	2441.2	2430.4	2422.3	2403.4	2381.0	2274.8	2153.5	2158.8	2707.3	2573.4	2103.1
65°	2666.0	2646.3	2632.8	2607.6	2582.3	2464.6	2345.0	2286.6	2824.3	2405.3	1877.4
67.5°	3137.2	3104.8	3066.1	3018.5	2949.3	2843.2	2534.8	2304.5	2718.2	2037.5	1480.9
70°	4068.7	3998.5	3909.5	3807.9	3781.8	3472.5	2653.4	2171.4	2259.6	1423.3	981.9
72.5°	5320.4	5247.5	5168.4	5084.8	4919.3	4239.5	2601.3	1751.6	1405.4	731.9	467.6
73°	5341.0	5291.5	5196.3	5099.1	4964.3	4226.0	2544.6	1614.9	1239.0	576.3	383.0
75°	4789.9	4770.0	4676.5	4489.5	4375.3	3569.7	1873.8	936.0	542.2	356.1	249.1
77.5°	3108.4	3086.9	3033.8	3015.8	2805.3	2314.4	838.9	364.2	294.9	236.5	176.3
80°	1656.3	1555.5	1537.6	1465.6	1311.8	891.1	286.8	223.0	196.0	158.3	123.2
82.5°	671.7	628.5	612.3	554.7	521.5	267.1	143.8	154.7	131.2	93.5	75.5
85°	247.2	227.5	222.1	180.8	159.2	79.2	88.1	108.8	81.8	52.2	37.7
87.5°	85.4	73.8	63.8	49.4	45.8	32.3	48.6	59.3	52.2	31.5	18.0
90°	14.3	13.3	12.3	11.3	12.1	10.7	12.6	17.3	18.2	12.6	10.7
92.5°	6.1	6.1	6.1	6.1	6.1	6.1	7.2	7.2	6.1	6.1	6.1
95°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	8.2	7.2	7.2	7.2
97.5°	9.2	9.2	9.2	9.2	9.2	9.2	12.3	10.2	9.2	8.2	8.2
100°	14.1	15.0	16.0	16.9	17.8	21.5	29.7	26.6	23.5	19.4	19.4
102.5°	30.3	31.6	32.9	34.3	35.6	40.9	51.1	48.1	43.0	39.9	38.9
105°	52.2	53.7	55.2	56.8	58.3	64.4	73.7	71.6	66.5	62.4	62.4
107.5°	77.7	79.3	80.8	82.3	83.9	90.0	97.2	96.2	92.1	89.0	88.0



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CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
110°	106.8	108.0	109.3	110.5	111.7	116.6	122.8	123.8	121.7	118.7	119.7
112.5°	138.9	139.8	140.8	141.7	142.6	146.3	151.4	153.4	152.4	150.4	150.4
115°	173.1	173.7	174.3	174.9	175.5	178.0	183.1	186.2	183.1	181.1	182.1
117.5°	207.2	207.6	207.9	208.2	208.5	209.7	215.8	219.9	214.8	212.8	213.8
120°	243.7	244.3	244.9	245.5	246.1	248.6	251.6	255.7	250.6	248.6	248.6
122.5°	278.4	279.1	279.7	280.3	280.9	283.4	285.4	289.5	284.4	282.3	283.4
125°	313.0	313.5	314.0	314.6	315.1	317.1	320.2	322.2	317.1	317.1	317.1
127.5°	347.0	347.1	347.2	347.3	347.4	347.8	352.9	353.9	353.9	352.9	355.0
130°	378.9	379.1	379.3	379.5	379.7	380.5	385.7	389.7	389.7	387.7	388.7
132.5°	413.5	413.6	413.7	413.8	413.9	414.3	420.4	425.5	423.5	423.5	424.5
135°	445.4	445.6	445.8	446.0	446.2	447.0	453.2	458.3	457.3	460.3	461.4
137.5°	475.5	475.9	476.3	476.7	477.1	478.7	483.9	485.9	486.9	492.0	493.1
140°	503.5	504.1	504.7	505.3	506.0	508.4	511.5	513.5	515.6	520.7	522.7
142.5°	533.8	534.2	534.6	535.0	535.4	537.0	539.1	545.2	545.2	546.3	548.3
145°	562.8	562.9	563.0	563.1	563.2	563.6	568.8	574.9	573.9	570.8	572.9
147.5°	587.4	587.5	587.6	587.7	587.8	588.2	593.3	598.4	599.4	596.4	598.4
150°	606.6	606.6	606.6	606.6	606.6	606.6	610.7	613.8	616.8	619.9	624.0
152.5°	624.0	624.0	624.0	624.0	624.0	624.0	625.0	628.1	632.2	637.3	642.4
155°	644.0	643.8	643.6	643.4	643.2	642.4	640.4	645.5	650.6	652.6	655.7
157.5°	660.6	660.5	660.4	660.3	660.2	659.8	658.8	662.9	664.9	664.9	670.0
160°	670.0	670.0	670.0	670.0	670.0	670.0	673.1	679.2	676.2	675.1	681.3
162.5°	676.6	676.8	677.0	677.2	677.4	678.2	682.3	686.4	685.4	683.3	689.5
165°	688.4	688.4	688.4	688.4	688.4	688.4	687.4	692.5	695.6	693.6	697.7
167.5°	703.2	702.9	702.6	702.3	701.9	700.7	693.6	699.7	703.8	703.8	709.9
170°	708.5	708.3	708.1	707.9	707.7	706.9	701.7	704.8	709.9	712.0	717.1
172.5°	705.8	705.8	705.8	705.8	705.8	705.8	704.8	707.9	709.9	712.0	717.1
175°	706.7	706.6	706.4	706.3	706.2	705.8	705.8	711.0	712.0	709.9	715.0
177.5°	712.6	712.4	712.2	712.0	711.8	711.0	709.9	715.0	717.1	714.0	718.1
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



REPORT NUMBER: P226580

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7
2.5°	925.3	928.8	936.0	941.4	945.9	952.2	954.0	957.6	953.1	958.5
5°	921.7	932.4	945.9	958.5	970.2	980.1	984.6	985.5	986.3	990.0
7.5°	912.7	928.8	950.4	967.5	985.5	991.8	994.5	995.3	989.1	991.8
10°	894.7	920.8	947.8	968.4	977.4	972.9	965.7	954.0	948.6	948.6
12.5°	874.9	908.2	939.6	951.3	943.3	926.2	906.3	884.8	876.7	876.7
15°	858.7	900.9	927.0	918.9	895.6	863.2	836.3	813.8	806.5	803.8
17.5°	849.7	897.3	907.3	882.1	842.5	802.1	775.1	756.2	749.9	749.9
20°	856.9	900.9	884.8	838.0	788.6	751.7	728.3	715.8	709.4	712.2
22.5°	887.5	914.4	865.0	794.8	734.6	703.2	692.3	684.3	683.3	685.2
25°	938.8	932.4	847.9	749.9	684.3	661.7	660.9	658.2	657.2	656.4
27.5°	1005.3	954.9	827.3	699.6	633.9	623.1	628.5	627.6	626.8	627.6
30°	1093.3	974.7	796.7	644.7	586.3	586.3	594.3	591.7	588.1	588.9
32.5°	1175.2	989.1	749.9	583.6	548.5	550.2	553.0	545.7	536.8	538.6
35°	1245.3	989.1	686.9	528.7	509.8	509.8	511.6	505.3	498.2	495.4
37.5°	1303.8	969.2	607.8	487.3	478.3	478.3	485.6	479.3	465.7	463.1
40°	1338.8	926.2	535.0	456.7	463.1	464.0	454.1	443.2	430.7	428.0
42.5°	1361.3	863.2	477.4	435.2	453.2	446.0	422.6	405.5	404.6	408.3
45°	1381.1	792.2	431.6	413.6	442.4	427.1	395.7	379.4	384.8	388.4
47.5°	1400.9	721.1	394.8	389.3	422.6	411.8	378.6	360.6	357.8	363.2
50°	1447.7	622.3	352.5	360.6	398.3	394.8	363.2	342.6	325.5	324.6
52.5°	1510.6	490.0	316.5	335.4	379.4	384.8	346.2	326.4	303.0	299.4
55°	1580.8	375.8	286.8	315.6	361.5	370.4	339.9	310.2	285.0	281.4
57.5°	1601.4	296.8	258.9	287.8	337.2	357.0	330.0	291.3	272.4	268.8
60°	1530.3	246.3	235.6	264.3	312.9	343.5	314.7	276.9	259.8	257.2
62.5°	1313.7	217.6	223.0	249.1	294.9	330.9	303.0	266.2	252.7	250.8
65°	1002.6	197.8	212.2	236.5	278.8	319.2	294.9	261.7	250.8	249.1
67.5°	629.4	183.4	201.4	223.0	262.6	306.6	288.7	256.2	248.2	245.5
70°	348.8	168.2	187.0	207.7	246.3	294.9	280.5	248.2	247.2	241.8
72.5°	212.2	151.9	171.8	191.5	228.4	280.5	266.2	238.2	229.2	218.5
73°	202.3	150.2	168.2	187.9	223.9	276.9	263.4	234.7	225.7	214.9
75°	163.7	134.8	153.7	170.8	207.7	262.6	248.2	222.1	207.7	199.6
77.5°	120.5	115.1	133.1	149.2	187.0	242.7	226.6	203.3	186.1	181.7
80°	89.0	95.3	112.4	126.7	164.6	223.0	204.1	181.7	170.8	165.4
82.5°	60.3	73.8	89.9	101.6	145.7	201.4	180.8	159.2	166.3	138.5
85°	35.1	51.2	64.8	79.2	116.9	179.8	157.3	135.7	118.7	107.0
87.5°	23.4	28.7	39.6	53.9	84.5	141.2	125.0	106.1	77.3	77.3
90°	9.8	12.8	14.6	13.5	18.8	68.4	49.5	56.6	14.1	13.2
92.5°	6.1	6.1	7.2	7.2	6.1	6.1	6.1	5.1	4.1	4.1
95°	7.2	7.2	8.2	7.2	7.2	7.2	7.2	6.1	5.1	5.1
97.5°	8.2	9.2	10.2	12.3	9.2	9.2	8.2	8.2	7.2	7.2
100°	19.4	23.5	26.6	29.7	21.5	12.3	10.2	9.2	8.2	8.2
102.5°	39.9	43.0	48.1	51.1	40.9	27.6	18.4	13.3	11.3	11.3
105°	62.4	66.5	71.6	73.7	64.4	49.1	36.8	27.6	22.5	21.5
107.5°	89.0	92.1	96.2	97.2	90.0	74.7	59.3	50.1	43.0	41.9



REPORT NUMBER: P226580

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	118.7	121.7	123.8	122.8	116.6	104.3	89.0	75.7	69.6	67.5
112.5°	150.4	152.4	153.4	151.4	146.3	137.1	123.8	108.4	101.3	101.3
115°	181.1	183.1	186.2	183.1	178.0	171.9	162.6	150.4	142.2	143.2
117.5°	212.8	214.8	219.9	215.8	209.7	206.6	201.5	193.3	188.2	188.2
120°	248.6	250.6	255.7	251.6	248.6	242.4	238.3	231.2	228.1	230.2
122.5°	282.3	284.4	289.5	285.4	283.4	277.2	273.1	267.0	266.0	269.0
125°	317.1	317.1	322.2	320.2	317.1	312.0	305.9	302.8	300.7	304.8
127.5°	352.9	353.9	353.9	352.9	347.8	346.8	340.6	336.6	336.6	337.6
130°	387.7	389.7	389.7	385.7	380.5	378.5	374.4	370.3	369.3	371.3
132.5°	423.5	423.5	425.5	420.4	414.3	413.3	410.2	402.0	403.0	405.1
135°	460.3	457.3	458.3	453.2	447.0	445.0	441.9	435.8	435.8	438.8
137.5°	492.0	486.9	485.9	483.9	478.7	474.6	470.6	469.5	467.5	470.6
140°	520.7	515.6	513.5	511.5	508.4	502.3	500.2	498.2	496.1	499.2
142.5°	546.3	545.2	545.2	539.1	537.0	533.0	529.9	528.9	526.8	529.9
145°	570.8	573.9	574.9	568.8	563.6	562.6	559.6	556.5	558.5	562.6
147.5°	596.4	599.4	598.4	593.3	588.2	587.2	587.2	584.1	585.1	588.2
150°	619.9	616.8	613.8	610.7	606.6	606.6	606.6	606.6	605.6	608.7
152.5°	637.3	632.2	628.1	625.0	624.0	624.0	623.0	622.0	622.0	625.0
155°	652.6	650.6	645.5	640.4	642.4	644.5	641.4	639.3	639.3	643.4
157.5°	664.9	664.9	662.9	658.8	659.8	660.8	658.8	657.8	657.8	660.8
160°	675.1	676.2	679.2	673.1	670.0	670.0	671.1	674.1	675.1	678.2
162.5°	683.3	685.4	686.4	682.3	678.2	676.2	680.3	684.4	684.4	688.4
165°	693.6	695.6	692.5	687.4	688.4	688.4	691.5	691.5	693.6	696.6
167.5°	703.8	703.8	699.7	693.6	700.7	703.8	701.7	699.7	702.8	705.8
170°	712.0	709.9	704.8	701.7	706.9	708.9	707.9	707.9	711.0	714.0
172.5°	712.0	709.9	707.9	704.8	705.8	705.8	708.9	711.0	713.0	715.0
175°	709.9	712.0	711.0	705.8	705.8	706.9	711.0	713.0	714.0	716.1
177.5°	714.0	717.1	715.0	709.9	711.0	713.0	715.0	716.1	721.2	723.2
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1

(END OF REPORT)