

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: P226578

Luminaire Tested: **IST-AF-1200-LED-E1-T4FT-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226578
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-1200-LED-E1-T4FT-7050-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW, WITH UPLIGHT GLOW
Light Source: (16) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8717.3 lumens
Efficiency: N/A
Efficacy: 105.4 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): 82.7
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

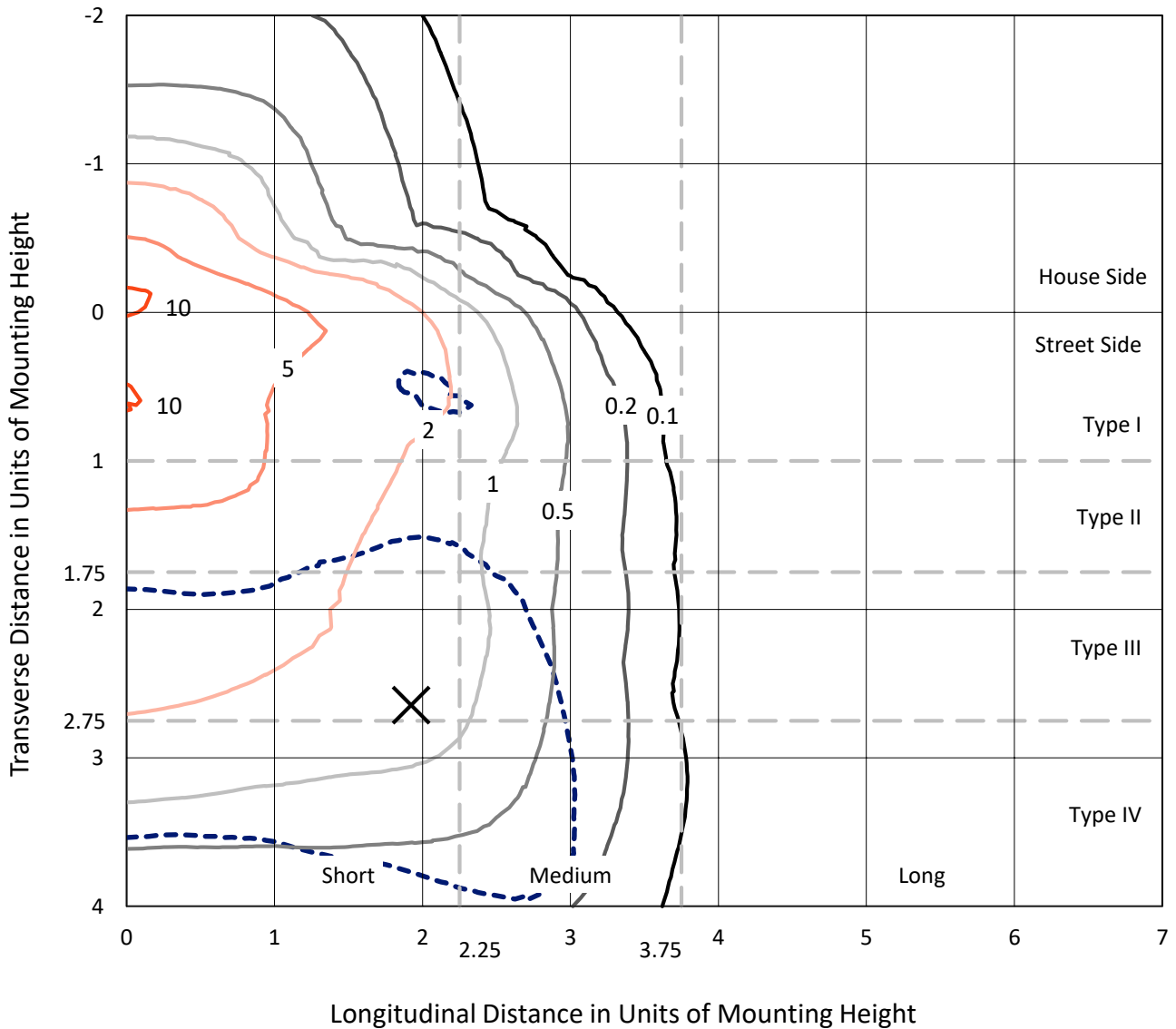


REPORT NUMBER: P226578

CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7050-ULG

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

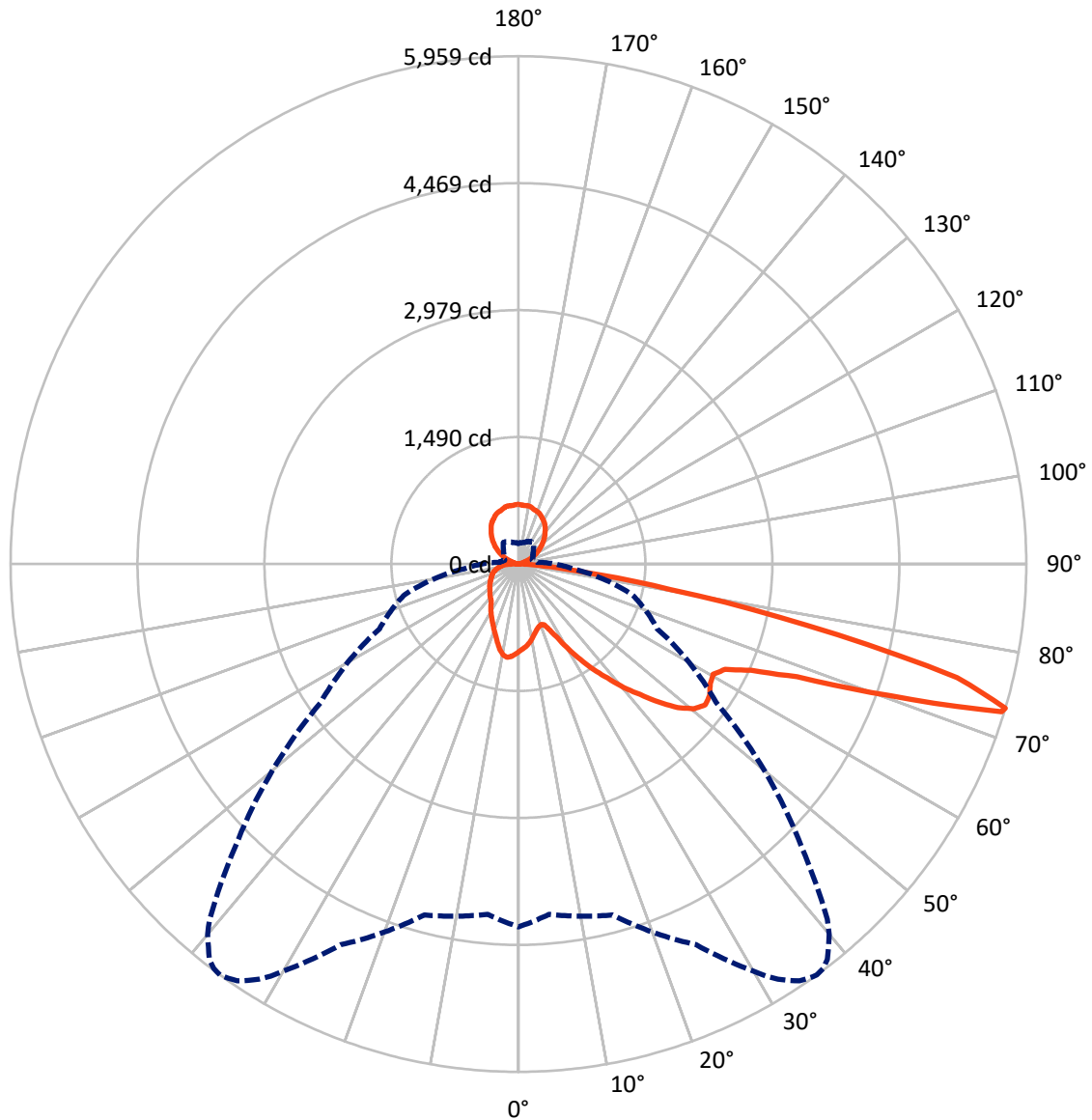


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P226578

CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7050-ULG

Luminous Intensity Polar Plot



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

REPORT NUMBER: P226578

CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7050-ULG

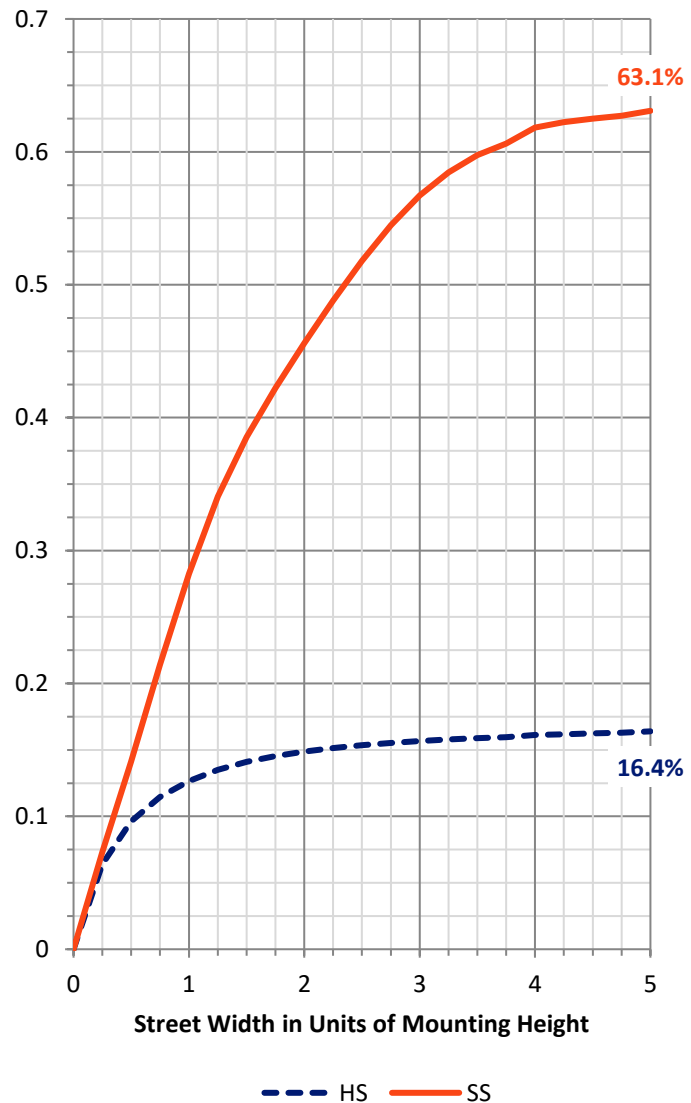
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1472.5	869.2	2341.7
	% Fixture	16.9	10.0	26.9
Street Side	Lumens	5507.5	868.1	6375.6
	% Fixture	63.2	10.0	73.1
Total	Lumens	6980.0	1737.3	8717.3
	% Fixture	80.1	19.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	1.1
10°-20°	255.7	2.9
20°-30°	419.1	4.8
30°-40°	694.4	8.0
40°-50°	1020.5	11.7
50°-60°	1286.8	14.8
60°-70°	1685.0	19.3
70°-80°	1364.0	15.6
80°-90°	157.9	1.8
90°-100°	11.4	0.1
100°-110°	57.4	0.7
110°-120°	166.1	1.9
120°-130°	273.2	3.1
130°-140°	336.8	3.9
140°-150°	344.6	4.0
150°-160°	290.3	3.3
160°-170°	191.2	2.2
170°-180°	66.3	0.8
0°-90°	6980.0	80.1
0°-180°	8717.3	100.0



REPORT NUMBER: P226578

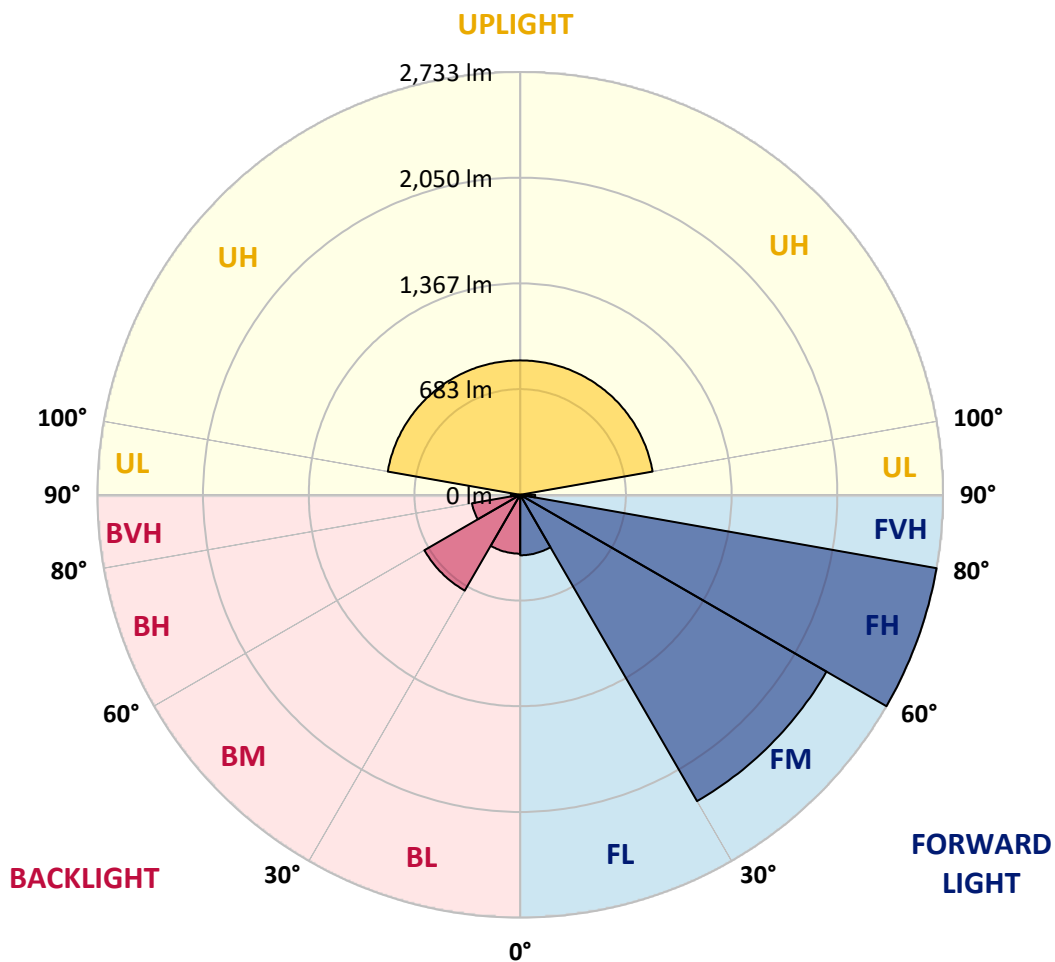
CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.8	4.5			
FM (30°-60°)	2286.2	26.2			
FH (60°-80°)	2733.2	31.4			G2/5000
FVH (80°-90°)	97.3	1.1			G1/100
BL (0°-30°)	380.6	4.4	B1/500		
BM (30°-60°)	715.5	8.2	B1/1000		
BH (60°-80°)	315.9	3.6	B1/500		G1/500
BVH (80°-90°)	60.6	0.7			G1/100
UL (90°-100°)	11.4	0.1		U2/50	
UH (100°-180°)	869.2	10.0		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





REPORT NUMBER: P226578

CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7050-ULG

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
0°	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3
2.5°	988.3	990.3	992.3	992.3	992.3	995.3	994.3	994.3	995.3	996.3	996.3
5°	951.3	952.3	958.3	960.3	966.3	965.3	965.3	965.3	969.3	966.3	968.3
7.5°	909.2	911.2	917.2	924.2	929.2	930.2	929.2	927.2	932.2	934.2	932.2
10°	859.2	860.2	868.2	874.2	882.2	881.2	884.2	884.2	886.2	885.2	889.2
12.5°	834.2	832.2	828.2	831.2	833.2	833.2	833.2	836.2	835.2	837.2	840.2
15°	831.2	826.2	806.2	799.2	797.2	797.2	796.2	795.2	798.2	801.2	801.2
17.5°	845.2	835.2	796.2	776.2	772.2	770.2	771.2	769.2	769.2	773.2	772.2
20°	913.2	895.2	817.2	773.2	761.2	761.2	760.2	757.2	757.2	758.2	758.2
22.5°	1086.3	1063.3	927.2	836.2	794.2	793.2	790.2	787.2	779.2	777.2	773.2
25°	1327.4	1300.3	1067.3	969.3	910.2	908.2	893.2	891.2	872.2	873.2	860.2
27.5°	1514.4	1496.4	1254.3	1124.3	1068.3	1056.3	1049.3	1031.3	1015.3	1002.3	986.3
30°	1578.4	1575.4	1443.4	1338.4	1254.3	1240.3	1221.3	1213.3	1190.3	1172.3	1161.3
32.5°	1679.4	1682.4	1627.4	1511.4	1438.4	1424.4	1408.4	1389.4	1373.4	1361.4	1335.4
35°	1823.5	1824.5	1786.5	1699.5	1615.4	1596.4	1587.4	1565.4	1550.4	1535.4	1522.4
37.5°	1923.5	1928.5	1901.5	1834.5	1784.5	1757.5	1756.5	1740.5	1723.5	1710.5	1698.4
40°	2115.6	2088.6	1999.5	1956.5	1915.5	1912.5	1903.5	1894.5	1898.5	1891.5	1904.5
42.5°	2309.6	2275.6	2151.6	2090.6	2065.5	2070.5	2067.5	2068.5	2080.6	2077.6	2091.6
45°	2475.7	2436.6	2318.6	2246.6	2266.6	2272.6	2289.6	2299.6	2294.6	2312.6	2312.6
47.5°	2641.7	2550.7	2410.6	2443.6	2457.7	2503.7	2515.7	2512.7	2529.7	2537.7	2515.7
50°	2524.7	2500.7	2489.7	2590.7	2653.7	2668.7	2685.7	2694.7	2702.7	2691.7	2669.7
52.5°	2277.6	2275.6	2430.6	2677.7	2730.7	2750.7	2766.7	2773.7	2770.7	2764.7	2746.7
55°	2194.6	2178.6	2312.6	2587.7	2668.7	2687.7	2710.7	2724.7	2738.7	2736.7	2722.7
57.5°	2307.6	2294.6	2295.6	2508.7	2587.7	2604.7	2619.7	2635.7	2639.7	2652.7	2653.7
60°	2635.7	2618.7	2481.7	2505.7	2585.7	2604.7	2606.7	2615.7	2616.7	2623.7	2624.7
62.5°	3108.8	3077.8	2868.8	2688.7	2716.7	2725.7	2732.7	2730.7	2726.7	2721.7	2721.7
65°	3627.0	3598.0	3328.9	3118.8	3037.8	3059.8	3024.8	3017.8	3009.8	3009.8	3000.8
67.5°	4243.1	4188.1	3980.1	3744.0	3627.0	3638.0	3654.0	3593.0	3570.9	3572.9	3525.9
70°	4871.3	4813.3	4722.3	4719.2	4778.3	4752.3	4678.2	4776.3	4660.2	4632.2	4622.2
72.5°	4524.2	4455.2	4474.2	5039.3	5569.5	5655.5	5737.5	5813.5	5881.6	5922.6	5928.6
73°	4258.1	4127.1	4263.1	4927.3	5515.5	5642.5	5744.5	5825.5	5898.6	5935.6	5958.6
75°	2126.6	2133.6	2803.7	4065.1	4820.3	4929.3	5088.3	5177.4	5309.4	5377.4	5317.4
77.5°	493.1	511.1	849.2	1929.5	2889.8	3045.8	3172.8	3302.9	3455.9	3512.9	3462.9
80°	174.0	182.0	299.1	733.2	1206.3	1292.3	1401.4	1544.4	1686.4	1721.5	1809.5
82.5°	92.0	101.0	158.0	318.1	515.1	563.1	591.2	650.2	700.2	730.2	746.2
85°	53.0	54.0	90.0	176.0	236.1	255.1	273.1	287.1	303.1	292.1	292.1
87.5°	21.0	23.0	46.0	83.0	114.0	127.0	127.0	127.0	126.0	111.0	101.0
90°	9.0	11.0	16.0	25.0	23.0	23.0	22.0	20.0	19.0	20.0	14.9
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
95°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	7.0	7.0	8.0	8.0	8.5	8.6	8.7	8.8	8.9	9.0	9.0
100°	8.0	8.0	9.0	10.0	11.0	11.2	11.4	11.6	11.8	12.0	12.9
102.5°	11.0	11.0	13.0	18.0	22.5	23.4	24.3	25.2	26.1	27.0	28.3
105°	21.0	22.0	27.0	36.0	42.0	43.2	44.4	45.6	46.8	48.0	49.5
107.5°	41.0	42.0	49.0	58.0	65.5	67.0	68.5	70.0	71.5	73.0	74.5



REPORT NUMBER: P226578

CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7050-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
110°	66.0	68.0	74.0	87.0	94.5	96.0	97.5	99.0	100.5	102.0	103.2
112.5°	99.0	99.0	106.0	121.0	127.5	128.8	130.1	131.4	132.7	134.0	134.9
115°	140.0	139.0	147.0	159.0	163.5	164.4	165.3	166.2	167.1	168.0	168.6
117.5°	184.0	184.0	189.0	197.0	199.5	200.0	200.5	201.0	201.5	202.0	202.3
120°	225.0	223.0	226.0	233.0	235.0	235.4	235.8	236.2	236.6	237.0	237.6
122.5°	263.0	260.0	261.0	267.0	269.0	269.4	269.8	270.2	270.6	271.0	271.6
125°	298.0	294.0	296.0	299.0	302.0	302.6	303.2	303.8	304.4	305.0	305.5
127.5°	330.0	329.0	329.0	333.0	336.0	336.6	337.2	337.8	338.4	339.0	339.1
130°	363.0	361.0	362.0	366.0	368.0	368.4	368.8	369.2	369.6	370.0	370.2
132.5°	396.0	394.0	393.0	401.0	402.5	402.8	403.1	403.4	403.7	404.0	404.1
135°	429.0	426.0	426.0	432.0	433.5	433.8	434.1	434.4	434.7	435.0	435.2
137.5°	460.0	457.0	459.0	460.0	462.0	462.4	462.8	463.2	463.6	464.0	464.4
140°	488.0	485.0	487.0	489.0	490.0	490.2	490.4	490.6	490.8	491.0	491.6
142.5°	518.0	515.0	517.0	518.0	519.5	519.8	520.1	520.4	520.7	521.0	521.4
145°	550.0	546.0	544.0	547.0	548.5	548.8	549.1	549.4	549.7	550.0	550.1
147.5°	575.0	572.0	571.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.1
150°	595.0	592.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
152.5°	611.0	608.0	608.0	609.0	609.5	609.6	609.7	609.8	609.8	609.9	610.0
155°	629.0	625.0	625.0	627.0	628.5	628.8	629.1	629.4	629.7	630.0	629.8
157.5°	646.0	643.0	643.0	644.0	645.0	645.2	645.4	645.6	645.8	646.0	645.9
160°	663.0	660.0	659.0	656.0	655.5	655.4	655.3	655.2	655.1	655.0	655.0
162.5°	673.0	669.0	669.0	665.0	663.0	662.6	662.2	661.8	661.4	661.0	661.2
165°	681.0	678.0	676.0	676.0	674.5	674.2	673.9	673.6	673.3	673.0	673.0
167.5°	690.0	687.0	684.0	686.0	687.0	687.2	687.4	687.6	687.8	688.0	687.7
170°	698.0	695.0	692.0	692.0	692.5	692.6	692.7	692.8	692.9	693.0	692.8
172.5°	699.0	697.0	695.0	693.0	691.5	691.2	690.9	690.6	690.3	690.0	690.0
175°	700.0	698.0	697.0	695.0	693.0	692.6	692.2	691.8	691.4	691.0	690.9
177.5°	707.0	705.0	700.0	699.0	698.0	697.8	697.6	697.4	697.2	697.0	696.8
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



REPORT NUMBER: P226578

CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7050-ULG

CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
0°	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3
2.5°	998.3	999.3	997.3	1001.3	998.3	998.3	1003.3	1012.3	1019.3	1021.3	1027.3
5°	970.3	971.3	971.3	972.3	971.3	973.3	982.3	990.3	1004.3	1011.3	1020.3
7.5°	934.2	937.2	936.2	938.2	938.2	940.2	954.3	967.3	981.3	994.3	1005.3
10°	891.2	893.2	897.2	895.2	895.2	901.2	916.2	935.2	952.3	971.3	984.3
12.5°	840.2	845.2	844.2	848.2	850.2	854.2	879.2	900.2	921.2	943.2	960.3
15°	800.2	803.2	805.2	806.2	806.2	815.2	840.2	866.2	894.2	920.2	938.2
17.5°	774.2	774.2	776.2	777.2	779.2	785.2	811.2	840.2	872.2	904.2	924.2
20°	759.2	759.2	760.2	761.2	761.2	768.2	792.2	825.2	860.2	901.2	925.2
22.5°	771.2	768.2	767.2	767.2	763.2	763.2	786.2	821.2	865.2	918.2	949.3
25°	853.2	844.2	830.2	827.2	822.2	798.2	795.2	835.2	889.2	955.3	1002.3
27.5°	976.3	967.3	958.3	947.3	939.2	895.2	835.2	871.2	935.2	1029.3	1087.3
30°	1137.3	1119.3	1106.3	1094.3	1059.3	1011.3	918.2	927.2	1006.3	1132.3	1205.3
32.5°	1317.3	1298.3	1278.3	1250.3	1241.3	1163.3	1044.3	1020.3	1096.3	1252.3	1328.4
35°	1491.4	1482.4	1468.4	1457.4	1436.4	1371.4	1208.3	1132.3	1200.3	1393.4	1452.4
37.5°	1693.4	1676.4	1677.4	1668.4	1656.4	1601.4	1378.4	1267.3	1312.3	1528.4	1565.4
40°	1892.5	1888.5	1894.5	1879.5	1859.5	1785.5	1503.4	1366.4	1429.4	1658.4	1649.4
42.5°	2080.6	2083.6	2076.5	2059.5	2037.5	1913.5	1583.4	1450.4	1534.4	1772.5	1716.5
45°	2295.6	2284.6	2255.6	2225.6	2198.6	2023.5	1626.4	1544.4	1635.4	1895.5	1784.5
47.5°	2498.7	2455.7	2430.6	2384.6	2331.6	2123.6	1684.4	1643.4	1747.5	2011.5	1849.5
50°	2647.7	2607.7	2565.7	2509.7	2453.6	2210.6	1761.5	1755.5	1874.5	2141.6	1938.5
52.5°	2715.7	2678.7	2637.7	2580.7	2524.7	2273.6	1864.5	1864.5	2024.5	2313.6	2061.5
55°	2704.7	2677.7	2641.7	2589.7	2546.7	2307.6	1970.5	1984.5	2212.6	2499.7	2203.6
57.5°	2646.7	2631.7	2610.7	2574.7	2539.7	2333.6	2095.6	2104.6	2464.7	2678.7	2337.6
60°	2626.7	2620.7	2608.7	2587.7	2560.7	2390.6	2228.6	2248.6	2746.7	2842.8	2413.6
62.5°	2715.7	2703.7	2694.7	2673.7	2648.7	2530.7	2395.6	2401.6	3011.8	2862.8	2339.6
65°	2965.8	2943.8	2928.8	2900.8	2872.8	2741.7	2608.7	2543.7	3141.8	2675.7	2088.6
67.5°	3489.9	3453.9	3410.9	3357.9	3280.9	3162.8	2819.7	2563.7	3023.8	2266.6	1647.4
70°	4526.2	4448.2	4349.2	4236.1	4207.1	3863.0	2951.8	2415.6	2513.7	1583.4	1092.3
72.5°	5918.6	5837.5	5749.5	5656.5	5472.4	4716.2	2893.8	1948.5	1563.4	814.2	520.1
73°	5941.6	5886.6	5780.5	5672.5	5522.5	4701.2	2830.7	1796.5	1378.4	641.2	426.1
75°	5328.4	5306.4	5202.4	4994.3	4867.3	3971.1	2084.6	1041.3	603.2	396.1	277.1
77.5°	3457.9	3433.9	3374.9	3354.9	3120.8	2574.7	933.2	405.1	328.1	263.1	196.1
80°	1842.5	1730.5	1710.5	1630.4	1459.4	991.3	319.1	248.1	218.1	176.0	137.0
82.5°	747.2	699.2	681.2	617.2	580.2	297.1	160.0	172.0	146.0	104.0	84.0
85°	275.1	253.1	247.1	201.1	177.0	88.0	98.0	121.0	91.0	58.0	42.0
87.5°	95.0	82.0	71.0	55.0	51.0	36.0	54.0	66.0	58.0	35.0	20.0
90°	14.8	13.7	12.6	11.5	12.4	11.0	13.0	18.0	19.0	13.0	11.0
92.5°	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	6.0	6.0	6.0
95°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0	7.0	7.0
97.5°	9.0	9.0	9.0	9.0	9.0	9.0	12.0	10.0	9.0	8.0	8.0
100°	13.8	14.7	15.6	16.5	17.4	21.0	29.0	26.0	23.0	19.0	19.0
102.5°	29.6	30.9	32.2	33.5	34.8	40.0	50.0	47.0	42.0	39.0	38.0
105°	51.0	52.5	54.0	55.5	57.0	63.0	72.0	70.0	65.0	61.0	61.0
107.5°	76.0	77.5	79.0	80.5	82.0	88.0	95.0	94.0	90.0	87.0	86.0



REPORT NUMBER: P226578

CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7050-ULG

CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
110°	104.4	105.6	106.8	108.0	109.2	114.0	120.0	121.0	119.0	116.0	117.0
112.5°	135.8	136.7	137.6	138.5	139.4	143.0	148.0	150.0	149.0	147.0	147.0
115°	169.2	169.8	170.4	171.0	171.6	174.0	179.0	182.0	179.0	177.0	178.0
117.5°	202.6	202.9	203.2	203.5	203.8	205.0	211.0	215.0	210.0	208.0	209.0
120°	238.2	238.8	239.4	240.0	240.6	243.0	246.0	250.0	245.0	243.0	243.0
122.5°	272.2	272.8	273.4	274.0	274.6	277.0	279.0	283.0	278.0	276.0	277.0
125°	306.0	306.5	307.0	307.5	308.0	310.0	313.0	315.0	310.0	310.0	310.0
127.5°	339.2	339.3	339.4	339.5	339.6	340.0	345.0	346.0	346.0	345.0	347.0
130°	370.4	370.6	370.8	371.0	371.2	372.0	377.0	381.0	381.0	379.0	380.0
132.5°	404.2	404.3	404.4	404.5	404.6	405.0	411.0	416.0	414.0	414.0	415.0
135°	435.4	435.6	435.8	436.0	436.2	437.0	443.0	448.0	447.0	450.0	451.0
137.5°	464.8	465.2	465.6	466.0	466.4	468.0	473.0	475.0	476.0	481.0	482.0
140°	492.2	492.8	493.4	494.0	494.6	497.0	500.0	502.0	504.0	509.0	511.0
142.5°	521.8	522.2	522.6	523.0	523.4	525.0	527.0	533.0	533.0	534.0	536.0
145°	550.2	550.3	550.4	550.5	550.6	551.0	556.0	562.0	561.0	558.0	560.0
147.5°	574.2	574.3	574.4	574.5	574.6	575.0	580.0	585.0	586.0	583.0	585.0
150°	593.0	593.0	593.0	593.0	593.0	593.0	597.0	600.0	603.0	606.0	610.0
152.5°	610.0	610.0	610.0	610.0	610.0	610.0	611.0	614.0	618.0	623.0	628.0
155°	629.6	629.4	629.2	629.0	628.8	628.0	626.0	631.0	636.0	638.0	641.0
157.5°	645.8	645.7	645.6	645.5	645.4	645.0	644.0	648.0	650.0	650.0	655.0
160°	655.0	655.0	655.0	655.0	655.0	655.0	658.0	664.0	661.0	660.0	666.0
162.5°	661.4	661.6	661.8	662.0	662.2	663.0	667.0	671.0	670.0	668.0	674.0
165°	673.0	673.0	673.0	673.0	673.0	673.0	672.0	677.0	680.0	678.0	682.0
167.5°	687.4	687.1	686.8	686.5	686.2	685.0	678.0	684.0	688.0	688.0	694.0
170°	692.6	692.4	692.2	692.0	691.8	691.0	686.0	689.0	694.0	696.0	701.0
172.5°	690.0	690.0	690.0	690.0	690.0	690.0	689.0	692.0	694.0	696.0	701.0
175°	690.8	690.7	690.6	690.5	690.4	690.0	690.0	695.0	696.0	694.0	699.0
177.5°	696.6	696.4	696.2	696.0	695.8	695.0	694.0	699.0	701.0	698.0	702.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



REPORT NUMBER: P226578

CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7050-ULG

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3
2.5°	1029.3	1033.3	1041.3	1047.3	1052.3	1059.3	1061.3	1065.3	1060.3	1066.3
5°	1025.3	1037.3	1052.3	1066.3	1079.3	1090.3	1095.3	1096.3	1097.3	1101.3
7.5°	1015.3	1033.3	1057.3	1076.3	1096.3	1103.3	1106.3	1107.3	1100.3	1103.3
10°	995.3	1024.3	1054.3	1077.3	1087.3	1082.3	1074.3	1061.3	1055.3	1055.3
12.5°	973.3	1010.3	1045.3	1058.3	1049.3	1030.3	1008.3	984.3	975.3	975.3
15°	955.3	1002.3	1031.3	1022.3	996.3	960.3	930.2	905.2	897.2	894.2
17.5°	945.3	998.3	1009.3	981.3	937.2	892.2	862.2	841.2	834.2	834.2
20°	953.3	1002.3	984.3	932.2	877.2	836.2	810.2	796.2	789.2	792.2
22.5°	987.3	1017.3	962.3	884.2	817.2	782.2	770.2	761.2	760.2	762.2
25°	1044.3	1037.3	943.2	834.2	761.2	736.2	735.2	732.2	731.2	730.2
27.5°	1118.3	1062.3	920.2	778.2	705.2	693.2	699.2	698.2	697.2	698.2
30°	1216.3	1084.3	886.2	717.2	652.2	652.2	661.2	658.2	654.2	655.2
32.5°	1307.3	1100.3	834.2	649.2	610.2	612.2	615.2	607.2	597.2	599.2
35°	1385.4	1100.3	764.2	588.2	567.2	567.2	569.2	562.1	554.1	551.1
37.5°	1450.4	1078.3	676.2	542.1	532.1	532.1	540.1	533.1	518.1	515.1
40°	1489.4	1030.3	595.2	508.1	515.1	516.1	505.1	493.1	479.1	476.1
42.5°	1514.4	960.3	531.1	484.1	504.1	496.1	470.1	451.1	450.1	454.1
45°	1536.4	881.2	480.1	460.1	492.1	475.1	440.1	422.1	428.1	432.1
47.5°	1558.4	802.2	439.1	433.1	470.1	458.1	421.1	401.1	398.1	404.1
50°	1610.4	692.2	392.1	401.1	443.1	439.1	404.1	381.1	362.1	361.1
52.5°	1680.4	545.1	352.1	373.1	422.1	428.1	385.1	363.1	337.1	333.1
55°	1758.5	418.1	319.1	351.1	402.1	412.1	378.1	345.1	317.1	313.1
57.5°	1781.5	330.1	288.1	320.1	375.1	397.1	367.1	324.1	303.1	299.1
60°	1702.5	274.1	262.1	294.1	348.1	382.1	350.1	308.1	289.1	286.1
62.5°	1461.4	242.1	248.1	277.1	328.1	368.1	337.1	296.1	281.1	279.1
65°	1115.3	220.1	236.1	263.1	310.1	355.1	328.1	291.1	279.1	277.1
67.5°	700.2	204.1	224.1	248.1	292.1	341.1	321.1	285.1	276.1	273.1
70°	388.1	187.0	208.1	231.1	274.1	328.1	312.1	276.1	275.1	269.1
72.5°	236.1	169.0	191.1	213.1	254.1	312.1	296.1	265.1	255.1	243.1
73°	225.1	167.0	187.0	209.1	249.1	308.1	293.1	261.1	251.1	239.1
75°	182.0	150.0	171.0	190.1	231.1	292.1	276.1	247.1	231.1	222.1
77.5°	134.0	128.0	148.0	166.0	208.1	270.1	252.1	226.1	207.1	202.1
80°	99.0	106.0	125.0	141.0	183.0	248.1	227.1	202.1	190.1	184.0
82.5°	67.0	82.0	100.0	113.0	162.0	224.1	201.1	177.0	185.0	154.0
85°	39.0	57.0	72.0	88.0	130.0	200.1	175.0	151.0	132.0	119.0
87.5°	26.0	32.0	44.0	60.0	94.0	157.0	139.0	118.0	86.0	86.0
90°	10.0	13.0	15.0	14.0	20.0	75.0	54.0	62.0	15.0	14.0
92.5°	6.0	6.0	7.0	7.0	6.0	6.0	6.0	5.0	4.0	4.0
95°	7.0	7.0	8.0	7.0	7.0	7.0	7.0	6.0	5.0	5.0
97.5°	8.0	9.0	10.0	12.0	9.0	9.0	8.0	8.0	7.0	7.0
100°	19.0	23.0	26.0	29.0	21.0	12.0	10.0	9.0	8.0	8.0
102.5°	39.0	42.0	47.0	50.0	40.0	27.0	18.0	13.0	11.0	11.0
105°	61.0	65.0	70.0	72.0	63.0	48.0	36.0	27.0	22.0	21.0
107.5°	87.0	90.0	94.0	95.0	88.0	73.0	58.0	49.0	42.0	41.0



REPORT NUMBER: P226578

CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7050-ULG

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	116.0	119.0	121.0	120.0	114.0	102.0	87.0	74.0	68.0	66.0
112.5°	147.0	149.0	150.0	148.0	143.0	134.0	121.0	106.0	99.0	99.0
115°	177.0	179.0	182.0	179.0	174.0	168.0	159.0	147.0	139.0	140.0
117.5°	208.0	210.0	215.0	211.0	205.0	202.0	197.0	189.0	184.0	184.0
120°	243.0	245.0	250.0	246.0	243.0	237.0	233.0	226.0	223.0	225.0
122.5°	276.0	278.0	283.0	279.0	277.0	271.0	267.0	261.0	260.0	263.0
125°	310.0	310.0	315.0	313.0	310.0	305.0	299.0	296.0	294.0	298.0
127.5°	345.0	346.0	346.0	345.0	340.0	339.0	333.0	329.0	329.0	330.0
130°	379.0	381.0	381.0	377.0	372.0	370.0	366.0	362.0	361.0	363.0
132.5°	414.0	414.0	416.0	411.0	405.0	404.0	401.0	393.0	394.0	396.0
135°	450.0	447.0	448.0	443.0	437.0	435.0	432.0	426.0	426.0	429.0
137.5°	481.0	476.0	475.0	473.0	468.0	464.0	460.0	459.0	457.0	460.0
140°	509.0	504.0	502.0	500.0	497.0	491.0	489.0	487.0	485.0	488.0
142.5°	534.0	533.0	533.0	527.0	525.0	521.0	518.0	517.0	515.0	518.0
145°	558.0	561.0	562.0	556.0	551.0	550.0	547.0	544.0	546.0	550.0
147.5°	583.0	586.0	585.0	580.0	575.0	574.0	574.0	571.0	572.0	575.0
150°	606.0	603.0	600.0	597.0	593.0	593.0	593.0	593.0	592.0	595.0
152.5°	623.0	618.0	614.0	611.0	610.0	610.0	609.0	608.0	608.0	611.0
155°	638.0	636.0	631.0	626.0	628.0	630.0	627.0	625.0	625.0	629.0
157.5°	650.0	650.0	648.0	644.0	645.0	646.0	644.0	643.0	643.0	646.0
160°	660.0	661.0	664.0	658.0	655.0	655.0	656.0	659.0	660.0	663.0
162.5°	668.0	670.0	671.0	667.0	663.0	661.0	665.0	669.0	669.0	673.0
165°	678.0	680.0	677.0	672.0	673.0	673.0	676.0	676.0	678.0	681.0
167.5°	688.0	688.0	684.0	678.0	685.0	688.0	686.0	684.0	687.0	690.0
170°	696.0	694.0	689.0	686.0	691.0	693.0	692.0	692.0	695.0	698.0
172.5°	696.0	694.0	692.0	689.0	690.0	690.0	693.0	695.0	697.0	699.0
175°	694.0	696.0	695.0	690.0	690.0	691.0	695.0	697.0	698.0	700.0
177.5°	698.0	701.0	699.0	694.0	695.0	697.0	699.0	700.0	705.0	707.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0

(END OF REPORT)