

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: P226575

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226575  
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-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**

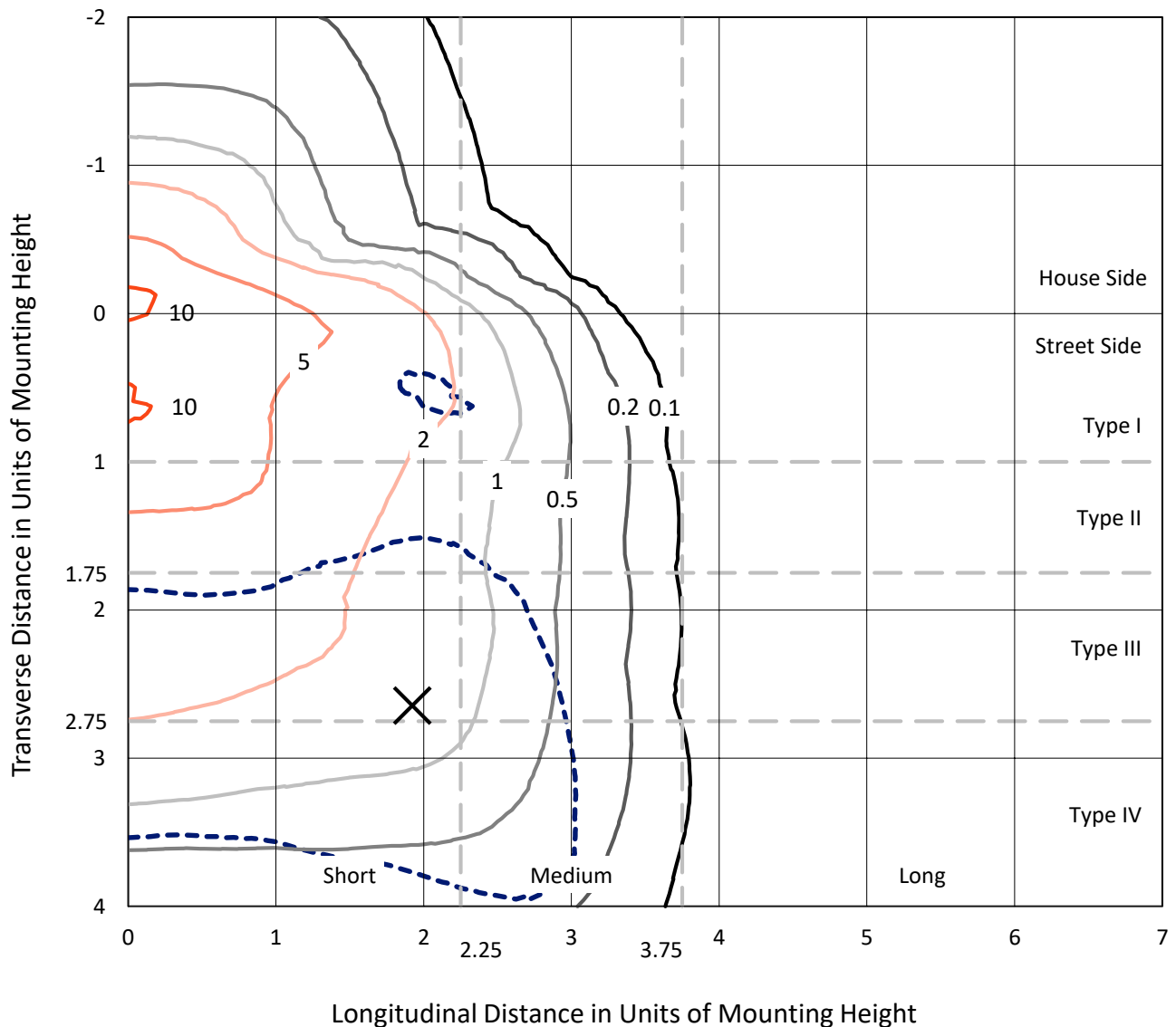
Lumens per Lamp: N/A  
Luminaire Lumens: 8917.4 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G2  
  
Input Watts (W): 82.7  
Input Voltage (V): 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



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

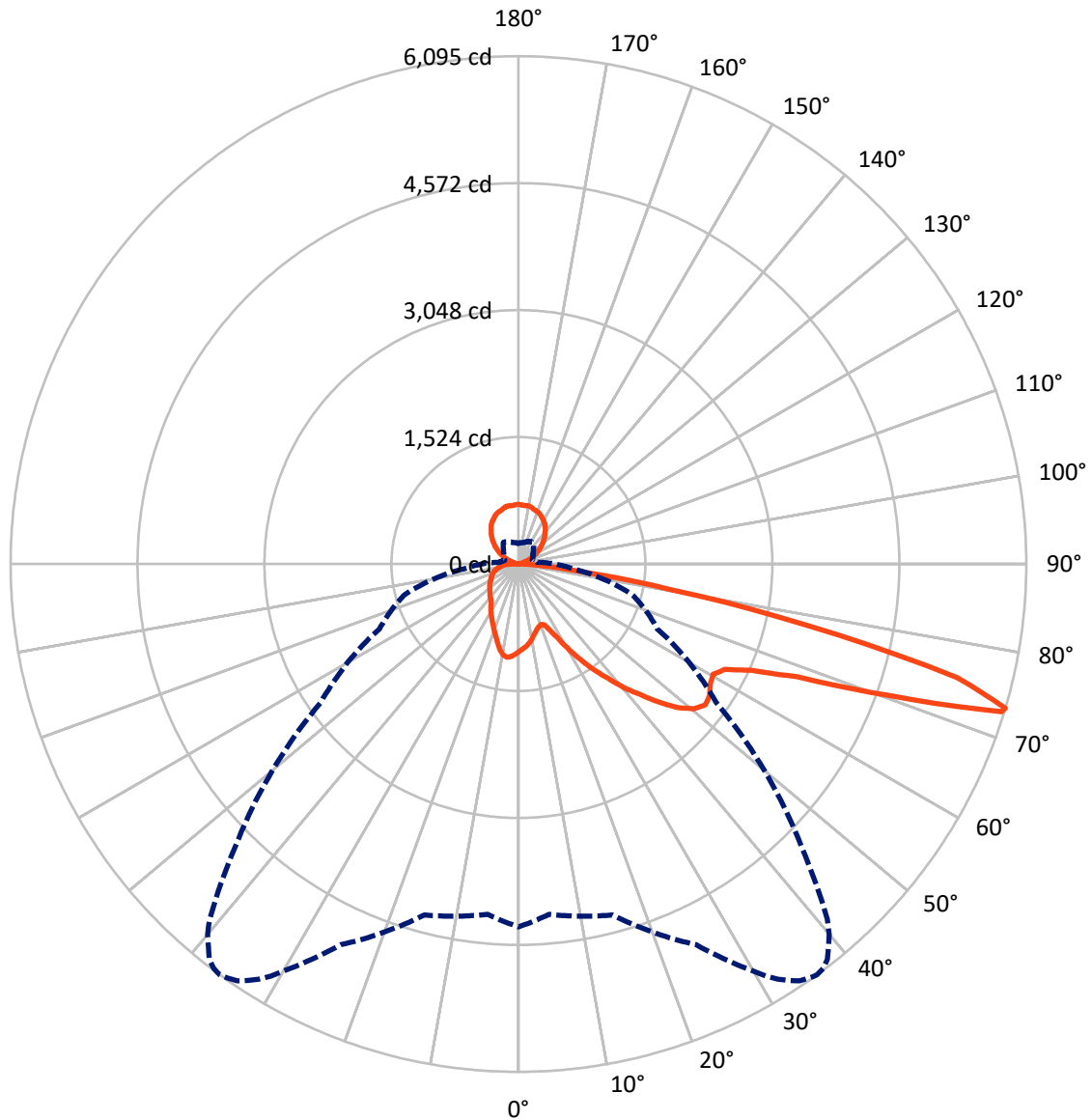


Based on 10 foot mounting height. Maximum calculated value = 11 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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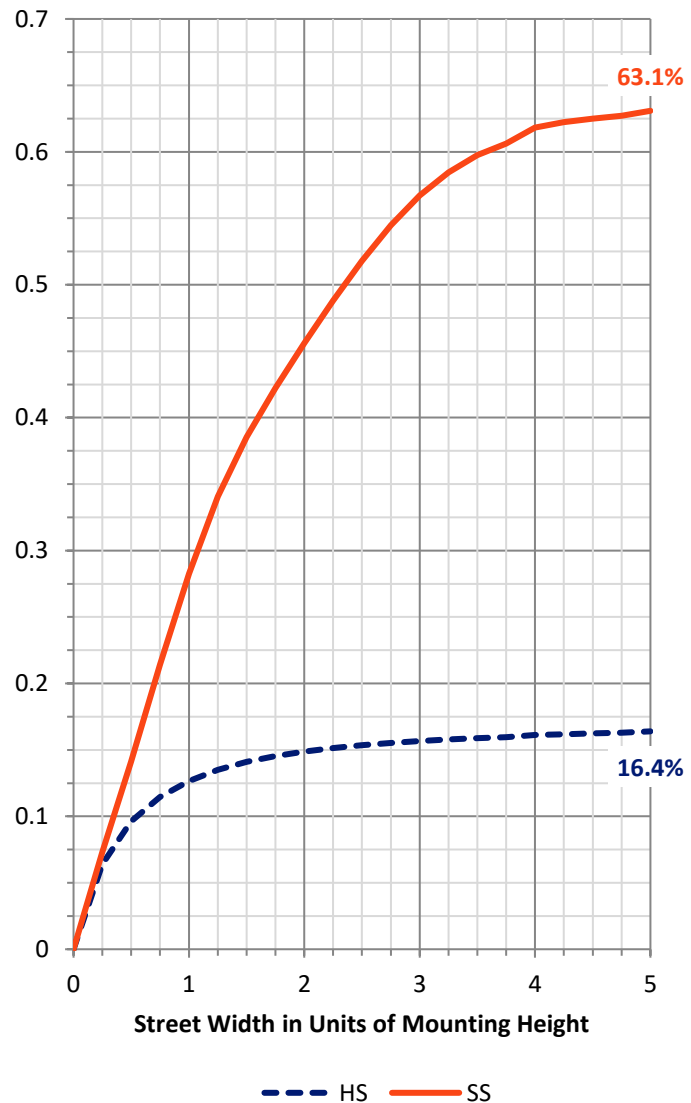
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1506.3	889.1	2395.4
	% Fixture	16.9	10.0	26.9
<b>Street Side</b>	Lumens	5633.9	888.1	6521.9
	% Fixture	63.2	10.0	73.1
<b>Total</b>	Lumens	7140.2	1777.2	8917.4
	% Fixture	80.1	19.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.7	1.1
10°-20°	261.6	2.9
20°-30°	428.7	4.8
30°-40°	710.4	8.0
40°-50°	1043.9	11.7
50°-60°	1316.3	14.8
60°-70°	1723.7	19.3
70°-80°	1395.3	15.6
80°-90°	161.5	1.8
90°-100°	11.7	0.1
100°-110°	58.7	0.7
110°-120°	169.9	1.9
120°-130°	279.4	3.1
130°-140°	344.6	3.9
140°-150°	352.5	4.0
150°-160°	297.0	3.3
160°-170°	195.5	2.2
170°-180°	67.8	0.8
0°-90°	7140.2	80.1
0°-180°	8917.4	100.0



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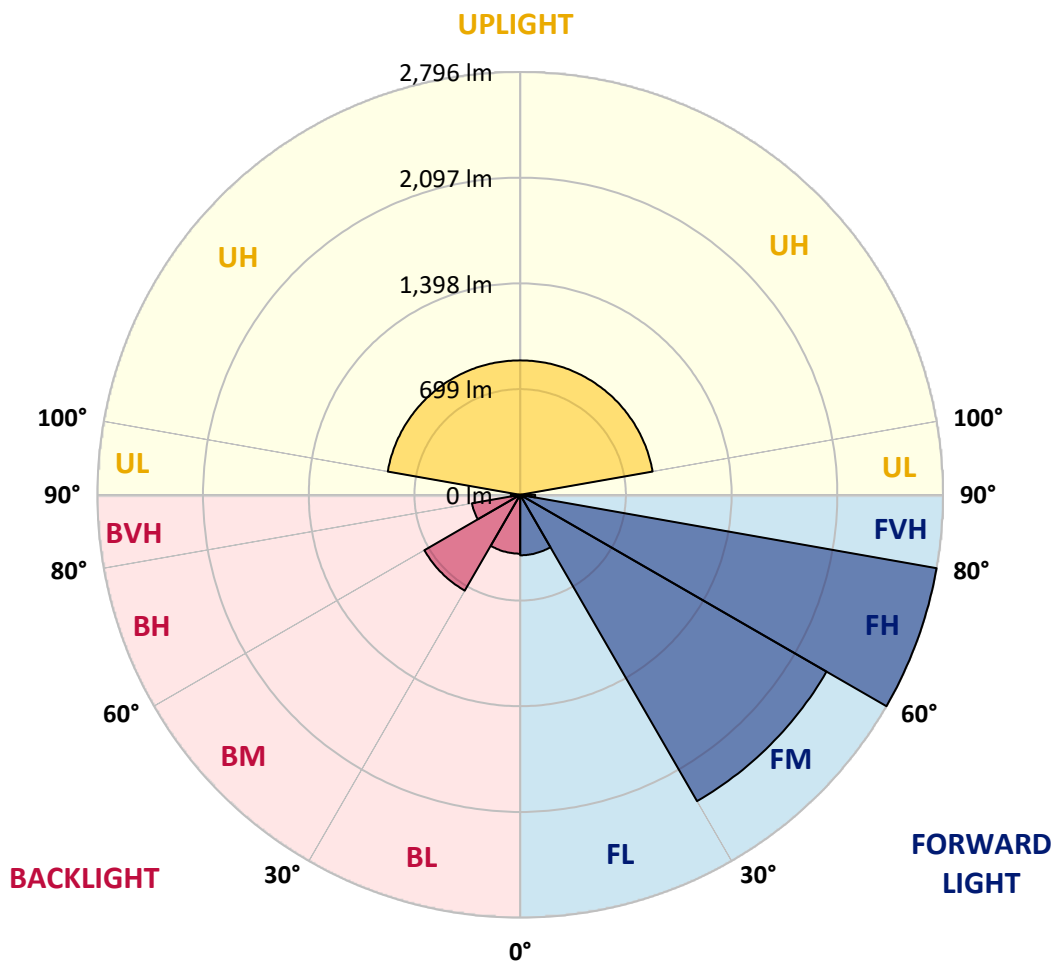
CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	399.8	4.5			
FM	(30°-60°)	2338.7	26.2			
FH	(60°-80°)	2795.9	31.4			G2/5000
FVH	(80°-90°)	99.5	1.1			G1/100
BL	(0°-30°)	389.3	4.4	B1/500		
BM	(30°-60°)	731.9	8.2	B1/1000		
BH	(60°-80°)	323.1	3.6	B1/500		G1/500
BVH	(80°-90°)	62.0	0.7			G1/100
UL	(90°-100°)	11.7	0.1		U2/50	
UH	(100°-180°)	889.1	10.0		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°	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8
2.5°	1011.0	1013.0	1015.1	1015.1	1015.1	1018.1	1017.1	1017.1	1018.1	1019.2	1019.2
5°	973.1	974.2	980.3	982.3	988.5	987.5	987.5	987.5	991.5	988.5	990.5
7.5°	930.1	932.1	938.3	945.4	950.5	951.5	950.5	948.5	953.6	955.6	953.6
10°	878.9	879.9	888.1	894.3	902.4	901.4	904.5	904.5	906.5	905.5	909.6
12.5°	853.3	851.3	847.2	850.3	852.3	852.3	852.3	855.4	854.4	856.4	859.5
15°	850.3	845.2	824.7	817.5	815.5	815.5	814.5	813.5	816.5	819.6	819.6
17.5°	864.6	854.4	814.5	794.0	789.9	787.9	788.9	786.9	786.9	790.9	789.9
20°	934.2	915.7	836.0	790.9	778.7	778.7	777.6	774.6	774.6	775.6	775.6
22.5°	1111.2	1087.7	948.5	855.4	812.4	811.4	808.3	805.3	797.1	795.0	790.9
25°	1357.9	1330.1	1091.8	991.5	931.1	929.0	913.7	911.7	892.2	893.2	879.9
27.5°	1549.2	1530.7	1283.1	1150.1	1092.8	1080.5	1073.4	1055.0	1038.6	1025.3	1008.9
30°	1614.6	1611.6	1476.5	1369.1	1283.1	1268.8	1249.3	1241.1	1217.6	1199.2	1188.0
32.5°	1717.9	1721.0	1664.8	1546.1	1471.4	1457.1	1440.7	1421.3	1404.9	1392.6	1366.0
35°	1865.4	1866.4	1827.5	1738.5	1652.5	1633.0	1623.8	1601.3	1586.0	1570.6	1557.3
37.5°	1967.6	1972.8	1945.1	1876.6	1825.5	1797.8	1796.8	1780.4	1763.1	1749.8	1737.4
40°	2164.2	2136.5	2045.4	2001.4	1959.5	1956.4	1947.2	1938.0	1942.1	1934.9	1948.2
42.5°	2362.6	2327.8	2201.0	2138.6	2112.9	2118.0	2115.0	2116.0	2128.4	2125.3	2139.6
45°	2532.5	2492.5	2371.8	2298.2	2318.6	2324.8	2342.1	2352.4	2347.3	2365.7	2365.7
47.5°	2702.3	2609.2	2465.9	2499.7	2514.1	2561.2	2573.4	2570.4	2587.8	2595.9	2573.4
50°	2582.6	2558.1	2546.8	2650.2	2714.6	2729.9	2747.3	2756.5	2764.7	2753.5	2731.0
52.5°	2329.9	2327.8	2486.4	2739.2	2793.4	2813.8	2830.2	2837.4	2834.3	2828.2	2809.7
55°	2245.0	2228.6	2365.7	2647.1	2729.9	2749.4	2772.9	2787.2	2801.6	2799.5	2785.2
57.5°	2360.6	2347.3	2348.3	2566.3	2647.1	2664.5	2679.8	2696.2	2700.3	2713.6	2714.6
60°	2696.2	2678.8	2538.7	2563.2	2645.0	2664.5	2666.5	2675.7	2676.8	2683.9	2684.9
62.5°	3180.1	3148.4	2934.6	2750.4	2779.1	2788.3	2795.4	2793.4	2789.3	2784.2	2784.2
65°	3710.2	3680.6	3405.3	3190.4	3107.5	3130.0	3094.2	3087.1	3078.9	3078.9	3069.7
67.5°	4340.5	4284.2	4071.4	3829.9	3710.2	3721.5	3737.9	3675.5	3652.9	3654.9	3606.8
70°	4983.1	4923.8	4830.7	4827.5	4888.0	4861.4	4785.6	4885.9	4767.2	4738.5	4728.3
72.5°	4628.0	4557.5	4576.9	5155.0	5697.3	5785.3	5869.2	5946.9	6016.6	6058.5	6064.7
73°	4355.8	4221.8	4360.9	5040.4	5642.1	5772.0	5876.3	5959.2	6034.0	6071.8	6095.4
75°	2175.4	2182.6	2868.0	4158.4	4930.9	5042.4	5205.1	5296.2	5431.3	5500.8	5439.4
77.5°	504.4	522.8	868.7	1973.8	2956.1	3115.7	3245.6	3378.7	3535.2	3593.5	3542.4
80°	178.0	186.2	306.0	750.0	1234.0	1322.0	1433.6	1579.8	1725.1	1761.0	1851.0
82.5°	94.1	103.3	161.6	325.4	526.9	576.0	604.8	665.1	716.3	747.0	763.3
85°	54.2	55.2	92.1	180.0	241.5	261.0	279.4	293.7	310.1	298.8	298.8
87.5°	21.5	23.5	47.1	84.9	116.6	129.9	129.9	129.9	128.9	113.5	103.3
90°	9.2	11.3	16.4	25.6	23.5	23.5	22.5	20.5	19.4	20.5	15.2
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°	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8
2.5°	1021.2	1022.2	1020.2	1024.3	1021.2	1021.2	1026.3	1035.5	1042.7	1044.7	1050.9
5°	992.6	993.6	993.6	994.6	993.6	995.6	1004.8	1013.0	1027.3	1034.5	1043.7
7.5°	955.6	958.7	957.7	959.7	959.7	961.8	976.2	989.5	1003.8	1017.1	1028.4
10°	911.7	913.7	917.8	915.7	915.7	921.9	937.2	956.7	974.2	993.6	1006.9
12.5°	859.5	864.6	863.6	867.7	869.7	873.8	899.4	920.9	942.3	964.8	982.3
15°	818.6	821.6	823.7	824.7	824.7	833.9	859.5	886.1	914.7	941.3	959.7
17.5°	792.0	792.0	794.0	795.0	797.1	803.2	829.8	859.5	892.2	925.0	945.4
20°	776.6	776.6	777.6	778.7	778.7	785.8	810.4	844.1	879.9	921.9	946.4
22.5°	788.9	785.8	784.8	784.8	780.7	780.7	804.2	840.0	885.1	939.3	971.1
25°	872.8	863.6	849.3	846.2	841.1	816.5	813.5	854.4	909.6	977.2	1025.3
27.5°	998.7	989.5	980.3	969.0	960.8	915.7	854.4	891.2	956.7	1052.9	1112.3
30°	1163.4	1145.0	1131.7	1119.4	1083.6	1034.5	939.3	948.5	1029.4	1158.3	1233.0
32.5°	1347.5	1328.1	1307.6	1279.0	1269.8	1190.0	1068.3	1043.7	1121.5	1281.0	1358.9
35°	1525.6	1516.4	1502.1	1490.8	1469.4	1402.9	1236.0	1158.3	1227.8	1425.4	1485.7
37.5°	1732.3	1714.9	1715.9	1706.7	1694.4	1638.2	1410.0	1296.4	1342.4	1563.5	1601.3
40°	1935.9	1931.8	1938.0	1922.6	1902.2	1826.5	1537.9	1397.8	1462.2	1696.5	1687.3
42.5°	2128.4	2131.4	2124.2	2106.8	2084.3	1957.4	1619.7	1483.7	1569.6	1813.2	1755.9
45°	2348.3	2337.0	2307.4	2276.7	2249.1	2069.9	1663.7	1579.8	1672.9	1939.0	1825.5
47.5°	2556.0	2512.1	2486.4	2439.3	2385.1	2172.3	1723.1	1681.1	1787.6	2057.7	1891.9
50°	2708.5	2667.5	2624.6	2567.3	2509.9	2261.3	1801.9	1795.8	1917.5	2190.8	1983.0
52.5°	2778.0	2740.2	2698.2	2639.9	2582.6	2325.8	1907.3	1907.3	2071.0	2366.7	2108.8
55°	2766.8	2739.2	2702.3	2649.1	2605.1	2360.6	2015.7	2030.0	2263.4	2557.1	2254.2
57.5°	2707.4	2692.1	2670.6	2633.8	2598.0	2387.2	2143.7	2152.9	2521.3	2740.2	2391.2
60°	2687.0	2680.8	2668.6	2647.1	2619.5	2445.5	2279.7	2300.2	2809.7	2908.0	2469.0
62.5°	2778.0	2765.8	2756.5	2735.1	2709.5	2588.8	2450.6	2456.7	3080.9	2928.5	2393.3
65°	3033.9	3011.4	2996.0	2967.4	2938.7	2804.6	2668.6	2602.1	3213.9	2737.1	2136.5
67.5°	3570.0	3533.2	3489.2	3435.0	3356.2	3235.4	2884.4	2622.5	3093.2	2318.6	1685.2
70°	4630.1	4550.3	4449.0	4333.3	4303.7	3951.7	3019.5	2471.0	2571.4	1619.7	1117.4
72.5°	6054.4	5971.5	5881.5	5786.3	5598.0	4824.4	2960.2	1993.2	1599.3	832.9	532.0
73°	6078.0	6021.7	5913.2	5802.7	5649.2	4809.1	2895.7	1837.7	1410.0	655.9	435.9
75°	5450.7	5428.2	5321.8	5108.9	4979.0	4062.2	2132.4	1065.2	617.0	405.2	283.5
77.5°	3537.3	3512.7	3452.4	3431.9	3192.4	2633.8	954.6	414.4	335.6	269.1	200.6
80°	1884.8	1770.2	1749.8	1667.8	1492.9	1014.1	326.4	253.8	223.1	180.0	140.1
82.5°	764.3	715.2	696.8	631.4	593.5	303.9	163.7	175.9	149.4	106.4	85.9
85°	281.4	258.9	252.8	205.7	181.1	90.0	100.2	123.8	93.1	59.3	43.0
87.5°	97.2	83.9	72.6	56.3	52.2	36.8	55.2	67.5	59.3	35.8	20.5
90°	15.1	14.0	12.9	11.8	12.7	11.3	13.3	18.4	19.4	13.3	11.3
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



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8
2.5°	1052.9	1057.0	1065.2	1071.3	1076.5	1083.6	1085.7	1089.7	1084.6	1090.8
5°	1048.8	1061.1	1076.5	1090.8	1104.1	1115.3	1120.4	1121.5	1122.5	1126.6
7.5°	1038.6	1057.0	1081.6	1101.0	1121.5	1128.6	1131.7	1132.7	1125.6	1128.6
10°	1018.1	1047.8	1078.5	1102.0	1112.3	1107.1	1099.0	1085.7	1079.5	1079.5
12.5°	995.6	1033.5	1069.3	1082.6	1073.4	1053.9	1031.4	1006.9	997.7	997.7
15°	977.2	1025.3	1055.0	1045.8	1019.2	982.3	951.5	926.0	917.8	914.7
17.5°	967.0	1021.2	1032.5	1003.8	958.7	912.7	882.0	860.5	853.3	853.3
20°	975.2	1025.3	1006.9	953.6	897.3	855.4	828.8	814.5	807.3	810.4
22.5°	1010.0	1040.6	984.4	904.5	836.0	800.2	787.9	778.7	777.6	779.7
25°	1068.3	1061.1	964.8	853.3	778.7	753.1	752.1	749.0	748.0	747.0
27.5°	1144.0	1086.7	941.3	796.1	721.4	709.1	715.2	714.2	713.2	714.2
30°	1244.2	1109.2	906.5	733.7	667.2	667.2	676.4	673.3	669.2	670.2
32.5°	1337.3	1125.6	853.3	664.1	624.2	626.3	629.3	621.1	610.9	613.0
35°	1417.2	1125.6	781.7	601.7	580.2	580.2	582.3	575.0	566.8	563.7
37.5°	1483.7	1103.0	691.7	554.5	544.3	544.3	552.5	545.3	530.0	526.9
40°	1523.6	1053.9	608.9	519.8	526.9	527.9	516.7	504.4	490.1	487.0
42.5°	1549.2	982.3	543.3	495.2	515.7	507.5	480.9	461.5	460.4	464.5
45°	1571.7	901.4	491.1	470.7	503.4	486.0	450.2	431.8	437.9	442.0
47.5°	1594.2	820.6	449.2	443.0	480.9	468.6	430.8	410.3	407.2	413.4
50°	1647.4	708.1	401.1	410.3	453.3	449.2	413.4	389.8	370.4	369.4
52.5°	1719.0	557.6	360.2	381.7	431.8	437.9	393.9	371.4	344.8	340.7
55°	1798.9	427.7	326.4	359.2	411.3	421.6	386.8	353.0	324.4	320.3
57.5°	1822.4	337.7	294.7	327.4	383.7	406.2	375.5	331.5	310.1	306.0
60°	1741.6	280.4	268.1	300.8	356.1	390.9	358.1	315.2	295.7	292.7
62.5°	1494.9	247.7	253.8	283.5	335.6	376.5	344.8	302.9	287.6	285.5
65°	1140.9	225.2	241.5	269.1	317.2	363.2	335.6	297.8	285.5	283.5
67.5°	716.3	208.8	229.2	253.8	298.8	348.9	328.5	291.6	282.4	279.4
70°	397.0	191.3	212.9	236.4	280.4	335.6	319.3	282.4	281.4	275.3
72.5°	241.5	172.9	195.5	218.0	259.9	319.3	302.9	271.2	261.0	248.7
73°	230.3	170.8	191.3	213.9	254.8	315.2	299.8	267.1	256.9	244.6
75°	186.2	153.4	174.9	194.5	236.4	298.8	282.4	252.8	236.4	227.2
77.5°	137.1	130.9	151.4	169.8	212.9	276.3	257.9	231.3	211.9	206.7
80°	101.3	108.4	127.9	144.2	187.2	253.8	232.3	206.7	194.5	188.2
82.5°	68.5	83.9	102.3	115.6	165.7	229.2	205.7	181.1	189.2	157.5
85°	39.9	58.3	73.7	90.0	133.0	204.7	179.0	154.5	135.0	121.7
87.5°	26.6	32.7	45.0	61.4	96.2	160.6	142.2	120.7	88.0	88.0
90°	10.2	13.3	15.3	14.3	20.5	76.7	55.2	63.4	15.3	14.3
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: P226575

CATALOG NUMBER: IST-AF-1200-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)