

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: P226579

Luminaire Tested: **IST-AF-1200-LED-E1-T4FT-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226579
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-7030-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW, WITH UPLIGHT GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7915.9 lumens
Efficiency: N/A
Efficacy: 95.7 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): 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

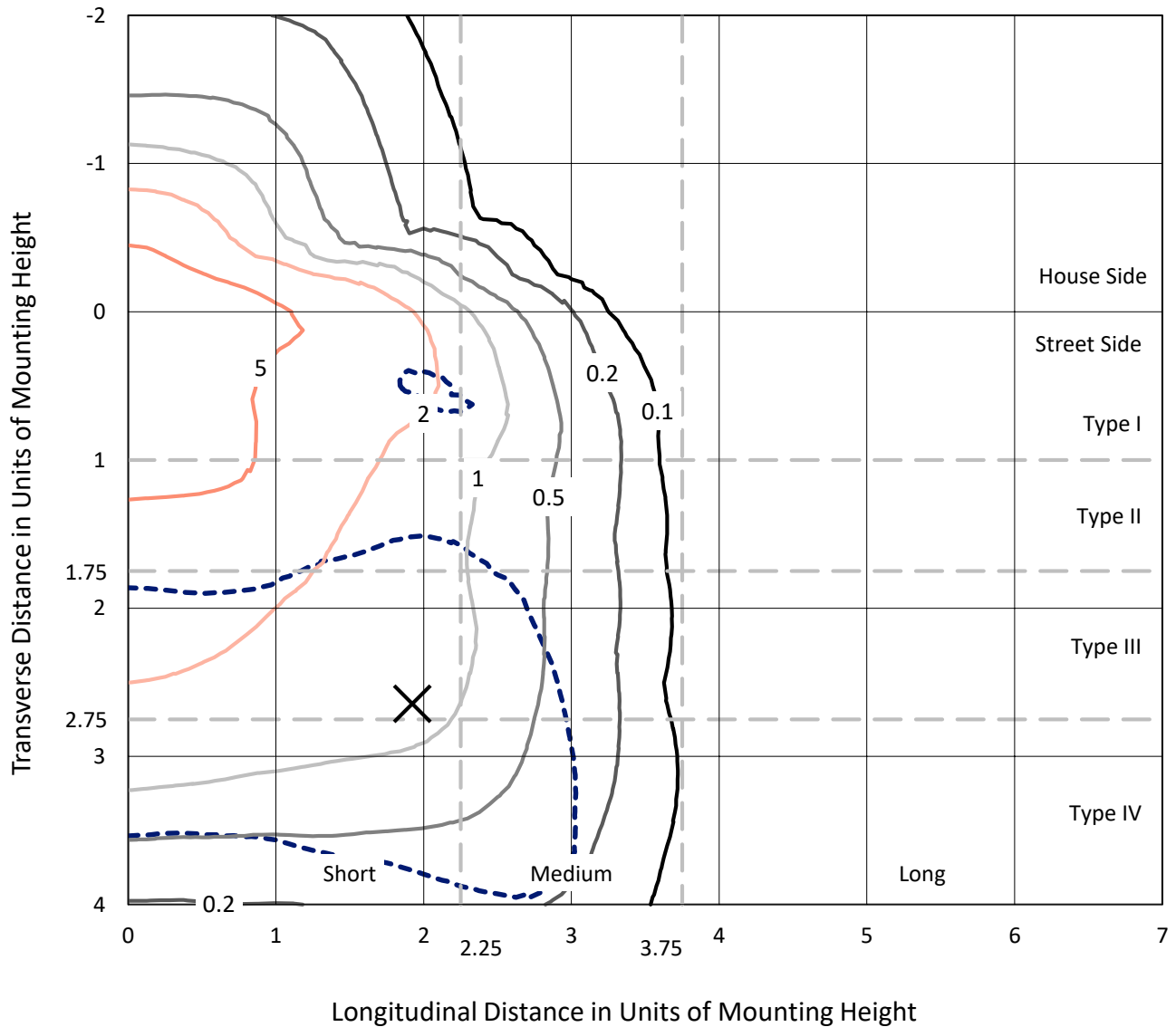


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

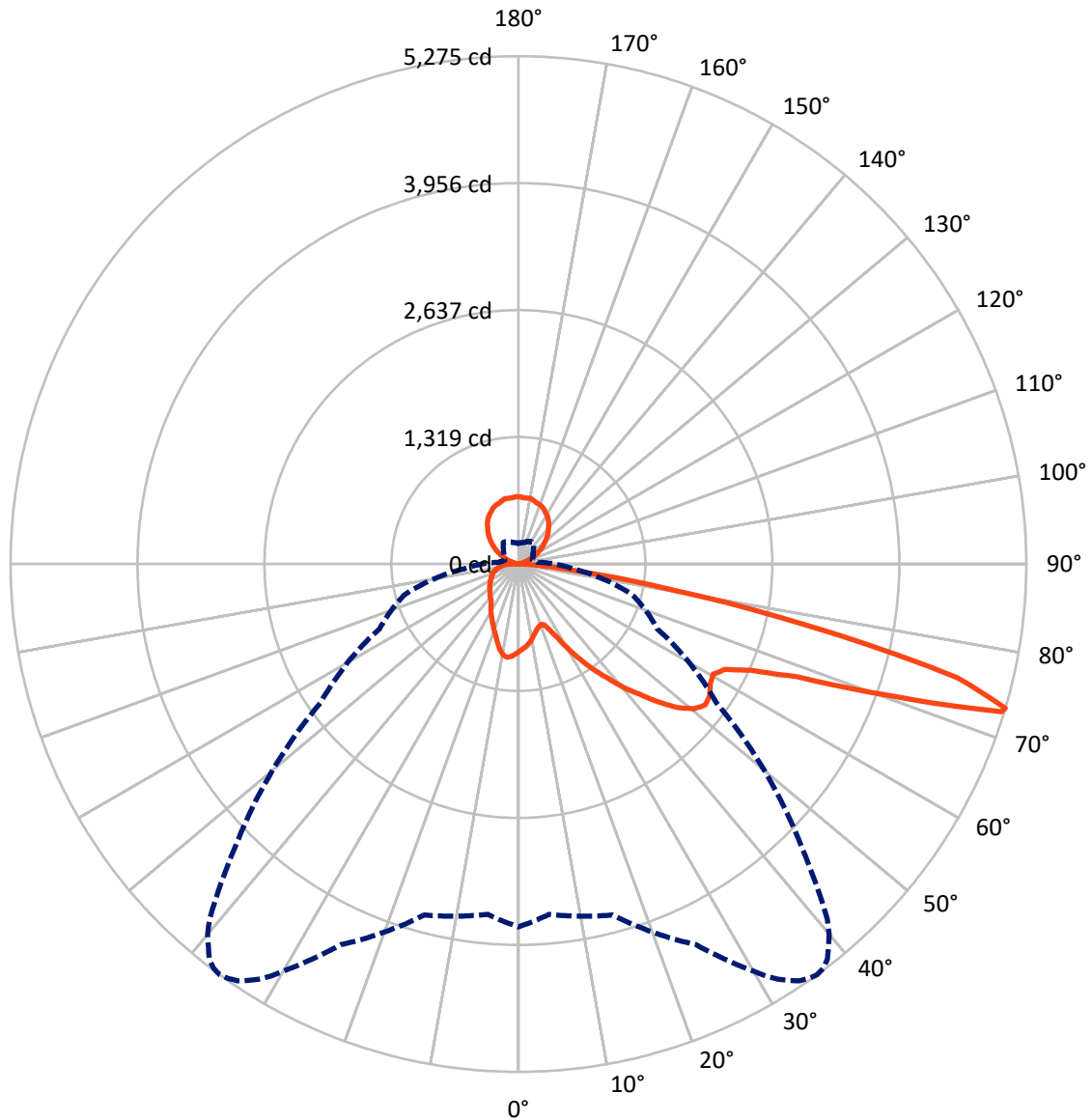


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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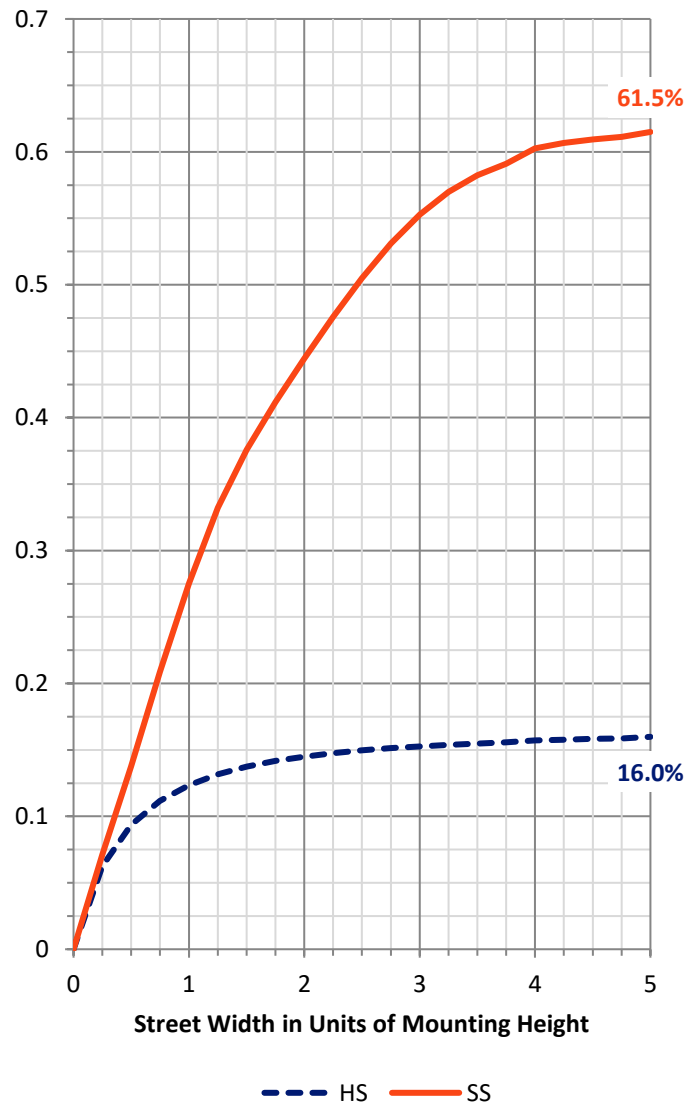
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1303.5	869.0	2172.5
	% Fixture	16.5	11.0	27.4
Street Side	Lumens	4875.3	868.1	5743.4
	% Fixture	61.6	11.0	72.6
Total	Lumens	6178.8	1737.1	7915.9
	% Fixture	78.1	21.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	1.1
10°-20°	226.4	2.9
20°-30°	371.0	4.7
30°-40°	614.7	7.8
40°-50°	903.4	11.4
50°-60°	1139.0	14.4
60°-70°	1491.6	18.8
70°-80°	1207.4	15.3
80°-90°	139.9	1.8
90°-100°	11.2	0.1
100°-110°	57.4	0.7
110°-120°	166.1	2.1
120°-130°	273.2	3.5
130°-140°	336.8	4.3
140°-150°	344.6	4.4
150°-160°	290.3	3.7
160°-170°	191.2	2.4
170°-180°	66.3	0.8
0°-90°	6178.8	78.1
0°-180°	7915.9	100.0



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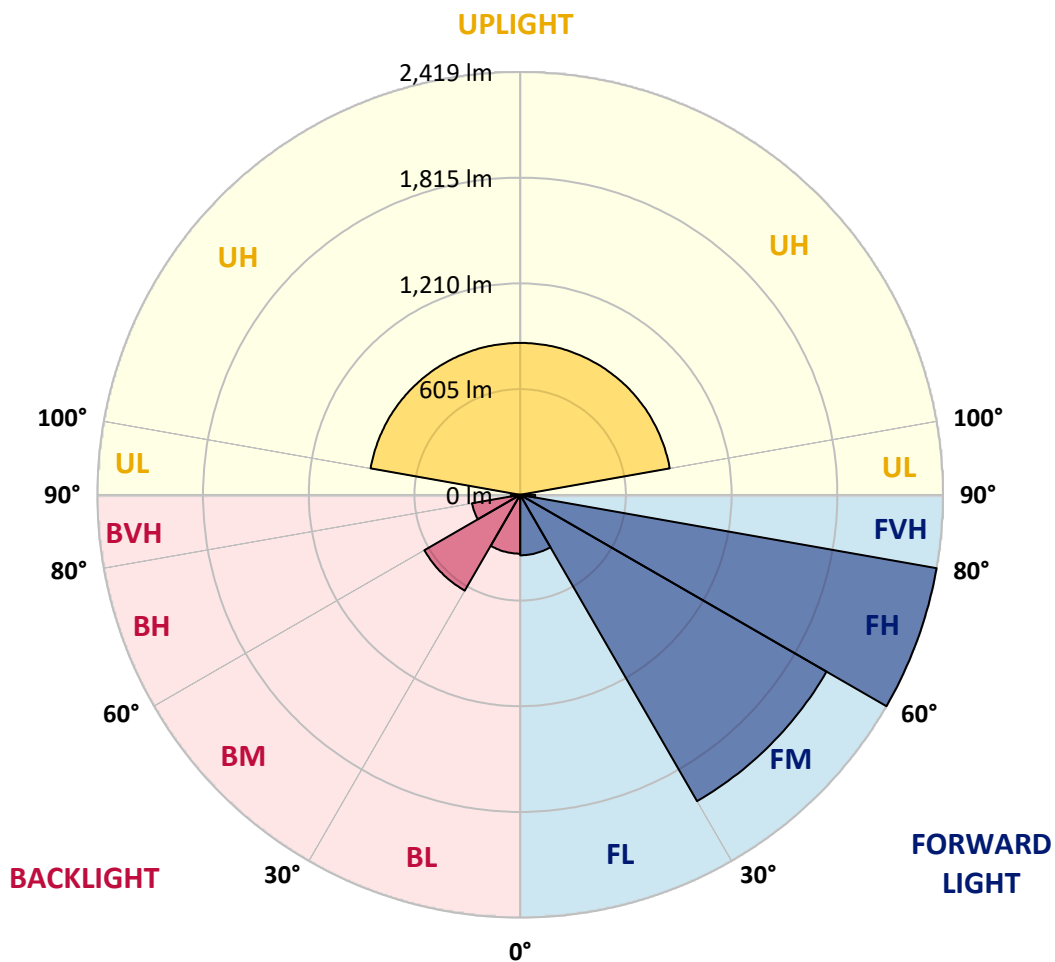
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	345.9	4.4			
FM	(30°-60°)	2023.8	25.6			
FH	(60°-80°)	2419.4	30.6			G2/5000
FVH	(80°-90°)	86.2	1.1			G1/100
BL	(0°-30°)	336.9	4.3	B1/500		
BM	(30°-60°)	633.3	8.0	B1/1000		
BH	(60°-80°)	279.6	3.5	B1/500		G1/500
BVH	(80°-90°)	53.7	0.7			G1/100
UL	(90°-100°)	11.2	0.1		U2/50	
UH	(100°-180°)	869.0	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°	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6
2.5°	874.8	876.6	878.4	878.4	878.4	881.0	880.1	880.1	881.0	881.9	881.9
5°	842.0	842.9	848.2	850.0	855.3	854.4	854.4	854.4	858.0	855.3	857.1
7.5°	804.9	806.6	811.9	818.1	822.6	823.5	822.6	820.8	825.2	827.0	825.2
10°	760.6	761.5	768.6	773.9	781.0	780.1	782.7	782.7	784.5	783.6	787.2
12.5°	738.5	736.7	733.1	735.8	737.6	737.6	737.6	740.2	739.3	741.1	743.8
15°	735.8	731.4	713.7	707.5	705.7	705.7	704.8	703.9	706.6	709.2	709.2
17.5°	748.2	739.3	704.8	687.1	683.6	681.8	682.7	680.9	680.9	684.4	683.6
20°	808.4	792.5	723.4	684.4	673.8	673.8	672.9	670.3	670.3	671.2	671.2
22.5°	961.6	941.2	820.8	740.2	703.0	702.1	699.5	696.8	689.8	688.0	684.4
25°	1175.0	1151.1	944.8	858.0	805.7	804.0	790.7	788.9	772.1	773.0	761.5
27.5°	1340.5	1324.6	1110.3	995.2	945.6	935.0	928.8	912.9	898.7	887.2	873.0
30°	1397.2	1394.6	1277.7	1184.7	1110.3	1097.9	1081.1	1074.0	1053.7	1037.7	1028.0
32.5°	1486.6	1489.3	1440.6	1337.9	1273.3	1260.9	1246.7	1229.9	1215.7	1205.1	1182.1
35°	1614.1	1615.0	1581.4	1504.4	1430.0	1413.2	1405.2	1385.7	1372.4	1359.1	1347.6
37.5°	1702.7	1707.1	1683.2	1623.9	1579.6	1555.7	1554.8	1540.7	1525.6	1514.1	1503.5
40°	1872.7	1848.8	1770.0	1731.9	1695.6	1693.0	1685.0	1677.0	1680.6	1674.4	1685.9
42.5°	2044.5	2014.4	1904.6	1850.6	1828.4	1832.8	1830.2	1831.1	1841.7	1839.0	1851.4
45°	2191.5	2156.9	2052.4	1988.7	2006.4	2011.7	2026.8	2035.6	2031.2	2047.1	2047.1
47.5°	2338.4	2257.9	2133.9	2163.1	2175.5	2216.2	2226.9	2224.2	2239.3	2246.3	2226.9
50°	2234.8	2213.6	2203.8	2293.3	2349.1	2362.3	2377.4	2385.4	2392.4	2382.7	2363.2
52.5°	2016.1	2014.4	2151.6	2370.3	2417.2	2434.9	2449.1	2455.3	2452.7	2447.3	2431.4
55°	1942.6	1928.5	2047.1	2290.6	2362.3	2379.2	2399.5	2411.9	2424.3	2422.5	2410.2
57.5°	2042.7	2031.2	2032.1	2220.7	2290.6	2305.7	2319.0	2333.1	2336.7	2348.2	2349.1
60°	2333.1	2318.1	2196.8	2218.0	2288.8	2305.7	2307.4	2315.4	2316.3	2322.5	2323.4
62.5°	2751.9	2724.5	2539.4	2380.0	2404.8	2412.8	2419.0	2417.2	2413.7	2409.3	2409.3
65°	3210.6	3184.9	2946.7	2760.8	2689.1	2708.5	2677.6	2671.4	2664.3	2664.3	2656.3
67.5°	3756.0	3707.3	3523.1	3314.2	3210.6	3220.3	3234.5	3180.5	3161.0	3162.8	3121.2
70°	4312.1	4260.7	4180.1	4177.5	4229.7	4206.7	4141.2	4227.9	4125.2	4100.4	4091.6
72.5°	4004.8	3943.7	3960.5	4460.8	4930.1	5006.2	5078.9	5146.1	5206.4	5242.7	5248.0
73°	3769.3	3653.3	3773.7	4361.7	4882.3	4994.7	5085.1	5156.8	5221.4	5254.2	5274.5
75°	1882.4	1888.6	2481.9	3598.4	4266.9	4363.4	4504.2	4583.0	4699.9	4760.1	4707.0
77.5°	436.5	452.5	751.7	1708.0	2558.0	2696.1	2808.6	2923.7	3059.2	3109.6	3065.4
80°	154.1	161.1	264.7	649.0	1067.8	1144.0	1240.5	1367.1	1492.8	1523.8	1601.8
82.5°	81.5	89.4	139.9	281.6	456.0	498.5	523.3	575.5	619.8	646.4	660.5
85°	46.9	47.8	79.7	155.8	209.0	225.8	241.7	254.1	268.3	258.5	258.5
87.5°	18.6	20.4	40.7	73.5	100.9	112.5	112.5	112.5	111.6	98.3	89.4
90°	8.5	10.3	15.0	23.1	21.3	21.3	20.4	18.6	17.7	18.6	14.1
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



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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



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CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
0°	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6
2.5°	883.7	884.5	882.8	886.3	883.7	883.7	888.1	896.1	902.3	904.0	909.3
5°	858.9	859.8	859.8	860.6	859.8	861.5	869.5	876.6	889.0	895.2	903.1
7.5°	827.0	829.7	828.8	830.5	830.5	832.3	844.7	856.2	868.6	880.1	889.9
10°	788.9	790.7	794.2	792.5	792.5	797.8	811.1	827.9	842.9	859.8	871.3
12.5°	743.8	748.2	747.3	750.8	752.6	756.2	778.3	796.9	815.5	835.0	850.0
15°	708.3	711.0	712.8	713.7	713.7	721.6	743.8	766.8	791.6	814.6	830.5
17.5°	685.3	685.3	687.1	688.0	689.8	695.1	718.1	743.8	772.1	800.4	818.1
20°	672.0	672.0	672.9	673.8	673.8	680.0	701.3	730.5	761.5	797.8	819.0
22.5°	682.7	680.0	679.1	679.1	675.6	675.6	696.0	726.9	765.9	812.8	840.3
25°	755.3	747.3	734.9	732.3	727.8	706.6	703.9	739.3	787.2	845.6	887.2
27.5°	864.2	856.2	848.2	838.5	831.4	792.5	739.3	771.2	827.9	911.1	962.5
30°	1006.7	990.8	979.3	968.7	937.7	895.2	812.8	820.8	890.7	1002.3	1066.9
32.5°	1166.1	1149.3	1131.6	1106.8	1098.8	1029.8	924.4	903.1	970.4	1108.6	1175.9
35°	1320.2	1312.2	1299.8	1290.1	1271.5	1213.9	1069.6	1002.3	1062.5	1233.4	1285.7
37.5°	1499.0	1484.0	1484.9	1476.9	1466.3	1417.6	1220.1	1121.8	1161.7	1352.9	1385.7
40°	1675.2	1671.7	1677.0	1663.7	1646.0	1580.5	1330.8	1209.5	1265.3	1468.1	1460.1
42.5°	1841.7	1844.4	1838.2	1823.1	1803.6	1693.8	1401.6	1283.9	1358.3	1569.0	1519.4
45°	2032.1	2022.3	1996.7	1970.1	1946.2	1791.2	1439.7	1367.1	1447.7	1677.9	1579.6
47.5°	2211.8	2173.7	2151.6	2110.9	2063.9	1879.8	1491.1	1454.8	1546.9	1780.6	1637.2
50°	2343.7	2308.3	2271.1	2221.6	2172.0	1956.8	1559.3	1553.9	1659.3	1895.7	1716.0
52.5°	2404.0	2371.2	2334.9	2284.4	2234.8	2012.6	1650.4	1650.4	1792.1	2048.0	1824.9
55°	2394.2	2370.3	2338.4	2292.4	2254.3	2042.7	1744.3	1756.7	1958.6	2212.7	1950.6
57.5°	2342.9	2329.6	2311.0	2279.1	2248.1	2065.7	1855.0	1863.0	2181.7	2371.2	2069.3
60°	2325.2	2319.8	2309.2	2290.6	2266.7	2116.2	1972.7	1990.5	2431.4	2516.4	2136.6
62.5°	2404.0	2393.3	2385.4	2366.8	2344.6	2240.1	2120.6	2125.9	2666.0	2534.1	2071.0
65°	2625.3	2605.8	2592.6	2567.8	2543.0	2427.0	2309.2	2251.7	2781.1	2368.5	1848.8
67.5°	3089.3	3057.4	3019.3	2972.4	2904.2	2799.7	2496.0	2269.4	2676.7	2006.4	1458.3
70°	4006.6	3937.5	3849.9	3749.8	3724.1	3419.5	2612.9	2138.3	2225.1	1401.6	966.9
72.5°	5239.1	5167.4	5089.5	5007.1	4844.2	4174.8	2561.6	1724.8	1383.9	720.7	460.4
73°	5259.5	5210.8	5116.9	5021.3	4888.5	4161.5	2505.8	1590.2	1220.1	567.6	377.2
75°	4716.7	4697.2	4605.1	4421.0	4308.5	3515.2	1845.2	921.7	533.9	350.6	245.3
77.5°	3060.9	3039.7	2987.5	2969.7	2762.6	2279.1	826.1	358.6	290.4	232.9	173.5
80°	1631.0	1531.8	1514.1	1443.3	1291.8	877.5	282.5	219.6	193.0	155.8	121.3
82.5°	661.4	618.9	603.0	546.3	513.6	263.0	141.7	152.3	129.3	92.1	74.4
85°	243.5	224.0	218.7	178.0	156.7	77.9	86.8	107.1	80.6	51.4	37.2
87.5°	84.1	72.6	62.9	48.7	45.2	31.9	47.8	58.4	51.4	31.0	17.7
90°	14.0	13.0	12.0	11.0	11.8	10.5	12.3	17.0	17.9	12.3	10.5
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



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CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7030-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: P226579

CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7030-ULG

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6
2.5°	911.1	914.7	921.7	927.0	931.5	937.7	939.4	943.0	938.6	943.9
5°	907.6	918.2	931.5	943.9	955.4	965.1	969.6	970.4	971.3	974.9
7.5°	898.7	914.7	935.9	952.7	970.4	976.6	979.3	980.2	974.0	976.6
10°	881.0	906.7	933.2	953.6	962.5	958.0	951.0	939.4	934.1	934.1
12.5°	861.5	894.3	925.3	936.8	928.8	912.0	892.5	871.3	863.3	863.3
15°	845.6	887.2	912.9	904.9	881.9	850.0	823.5	801.3	794.2	791.6
17.5°	836.7	883.7	893.4	868.6	829.7	789.8	763.2	744.7	738.5	738.5
20°	843.8	887.2	871.3	825.2	776.5	740.2	717.2	704.8	698.6	701.3
22.5°	873.9	900.5	851.8	782.7	723.4	692.4	681.8	673.8	672.9	674.7
25°	924.4	918.2	835.0	738.5	673.8	651.7	650.8	648.1	647.3	646.4
27.5°	989.9	940.3	814.6	688.9	624.2	613.6	618.9	618.0	617.1	618.0
30°	1076.7	959.8	784.5	634.9	577.3	577.3	585.3	582.6	579.1	580.0
32.5°	1157.3	974.0	738.5	574.6	540.1	541.9	544.5	537.5	528.6	530.4
35°	1226.3	974.0	676.5	520.6	502.0	502.0	503.8	497.6	490.5	487.9
37.5°	1283.9	954.5	598.6	479.9	471.1	471.1	478.1	471.9	458.7	456.0
40°	1318.4	912.0	526.8	449.8	456.0	456.9	447.1	436.5	424.1	421.5
42.5°	1340.5	850.0	470.2	428.6	446.3	439.2	416.2	399.3	398.4	402.0
45°	1360.0	780.1	425.0	407.3	435.6	420.6	389.6	373.7	379.0	382.5
47.5°	1379.5	710.1	388.7	383.4	416.2	405.5	372.8	355.1	352.4	357.7
50°	1425.5	612.7	347.1	355.1	392.2	388.7	357.7	337.4	320.5	319.6
52.5°	1487.5	482.6	311.7	330.3	373.7	379.0	340.9	321.4	298.4	294.8
55°	1556.6	370.1	282.5	310.8	355.9	364.8	334.7	305.5	280.7	277.1
57.5°	1577.0	292.2	255.0	283.3	332.0	351.5	325.0	286.9	268.3	264.7
60°	1507.0	242.6	232.0	260.3	308.1	338.2	309.9	272.7	255.9	253.2
62.5°	1293.6	214.3	219.6	245.3	290.4	325.8	298.4	262.1	248.8	247.0
65°	987.3	194.8	209.0	232.9	274.5	314.3	290.4	257.7	247.0	245.3
67.5°	619.8	180.6	198.3	219.6	258.5	301.9	284.2	252.3	244.4	241.7
70°	343.5	165.6	184.2	204.5	242.6	290.4	276.3	244.4	243.5	238.2
72.5°	209.0	149.6	169.1	188.6	224.9	276.3	262.1	234.6	225.8	215.2
73°	199.2	147.9	165.6	185.1	220.5	272.7	259.4	231.1	222.2	211.6
75°	161.1	132.8	151.4	168.2	204.5	258.5	244.4	218.7	204.5	196.6
77.5°	118.6	113.3	131.0	147.0	184.2	239.1	223.1	200.1	183.3	178.9
80°	87.7	93.9	110.7	124.8	162.0	219.6	201.0	178.9	168.2	162.9
82.5°	59.3	72.6	88.5	100.1	143.4	198.3	178.0	156.7	163.8	136.4
85°	34.5	50.5	63.8	77.9	115.1	177.1	155.0	133.7	116.9	105.4
87.5°	23.0	28.3	39.0	53.1	83.2	139.0	123.1	104.5	76.1	76.1
90°	9.7	12.5	14.3	13.2	18.5	67.3	48.7	55.7	13.9	13.0
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: P226579

CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7030-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)