

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: P226329

Luminaire Tested: **IST-AF-1000-LED-E1-T2-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35937)-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-T2-7030-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, 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: 7097.7 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

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

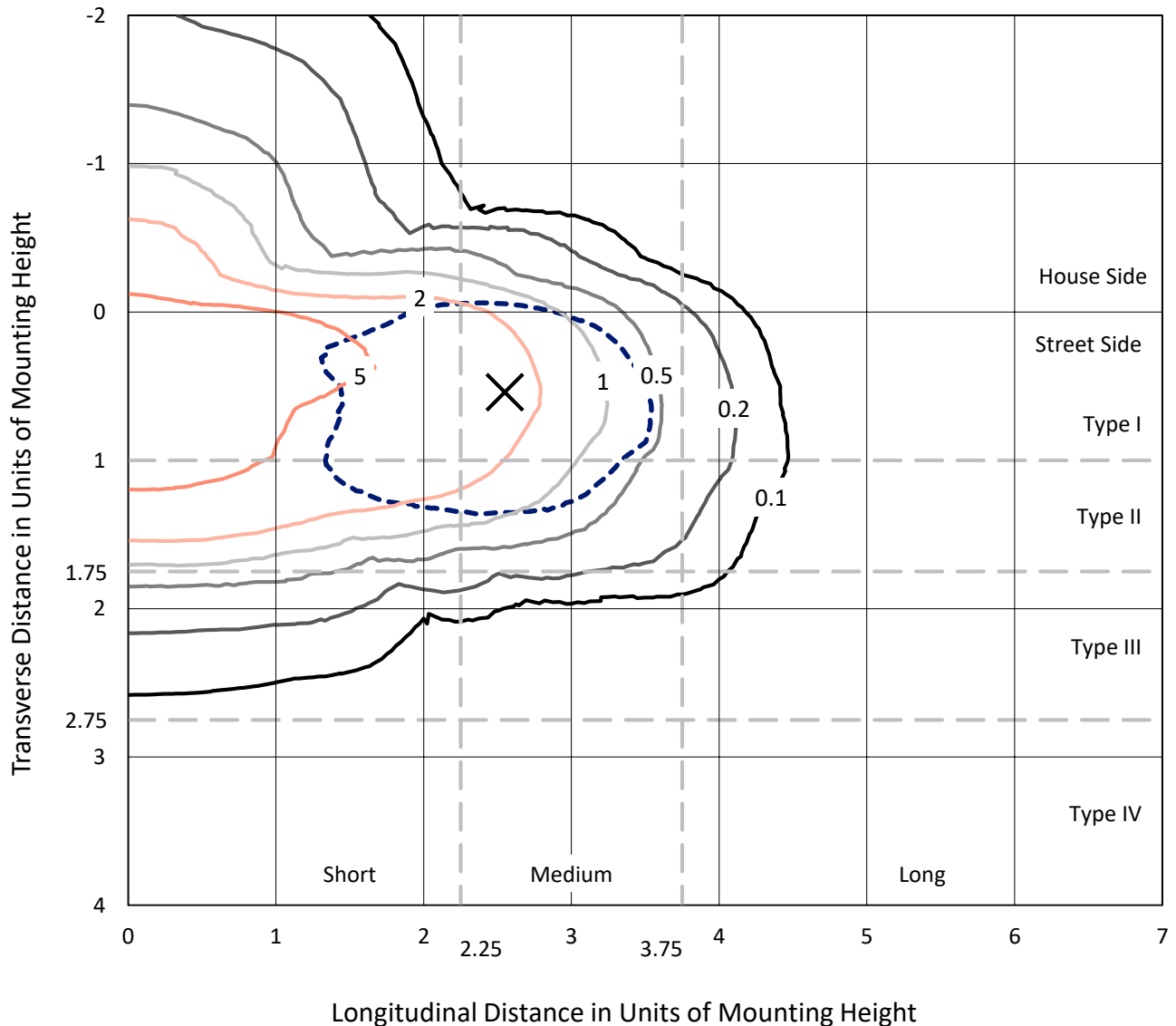


REPORT NUMBER: P226329

CATALOG NUMBER: IST-AF-1000-LED-E1-T2-7030-ULG

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

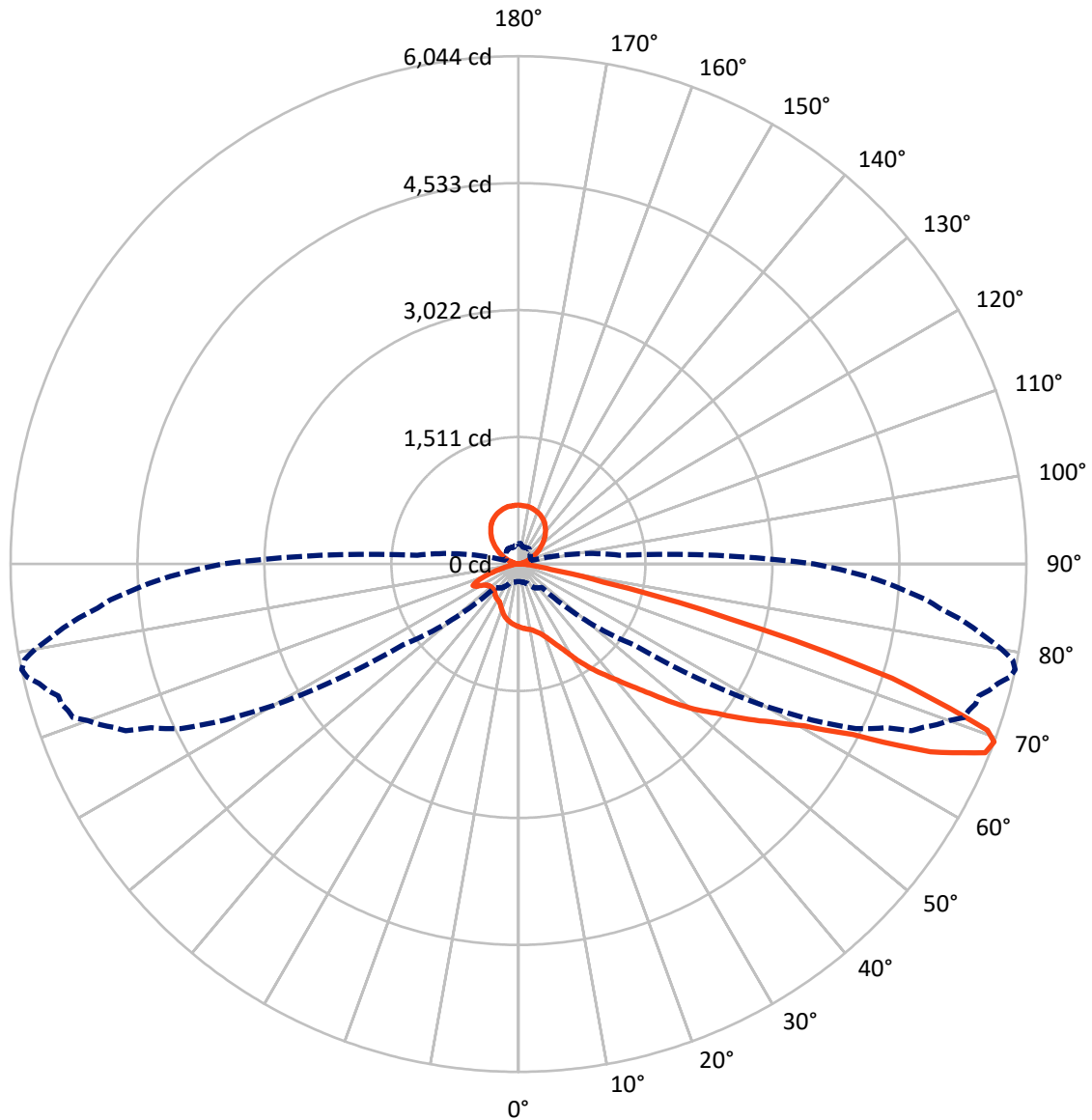


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Medium - Non-Cutoff

REPORT NUMBER: P226329

CATALOG NUMBER: IST-AF-1000-LED-E1-T2-7030-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P226329

CATALOG NUMBER: IST-AF-1000-LED-E1-T2-7030-ULG

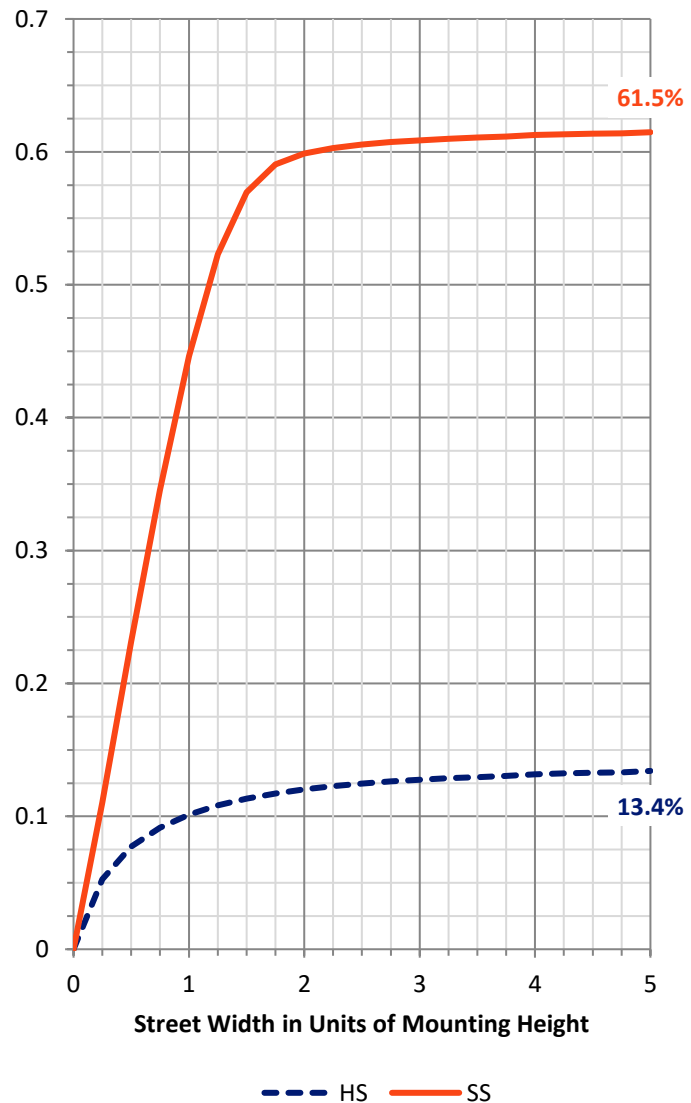
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	980.8	869.4	1850.2
	% Fixture	13.8	12.2	26.1
Street Side	Lumens	4379.0	868.4	5247.4
	% Fixture	61.7	12.2	73.9
Total	Lumens	5359.8	1737.9	7097.7
	% Fixture	75.5	24.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	1.0
10°-20°	209.1	2.9
20°-30°	374.8	5.3
30°-40°	611.8	8.6
40°-50°	904.9	12.7
50°-60°	1181.6	16.6
60°-70°	1321.5	18.6
70°-80°	593.3	8.4
80°-90°	93.5	1.3
90°-100°	12.0	0.2
100°-110°	57.4	0.8
110°-120°	166.1	2.3
120°-130°	273.2	3.8
130°-140°	336.8	4.7
140°-150°	344.6	4.9
150°-160°	290.3	4.1
160°-170°	191.2	2.7
170°-180°	66.3	0.9
0°-90°	5359.8	75.5
0°-180°	7097.7	100.0



REPORT NUMBER: P226329

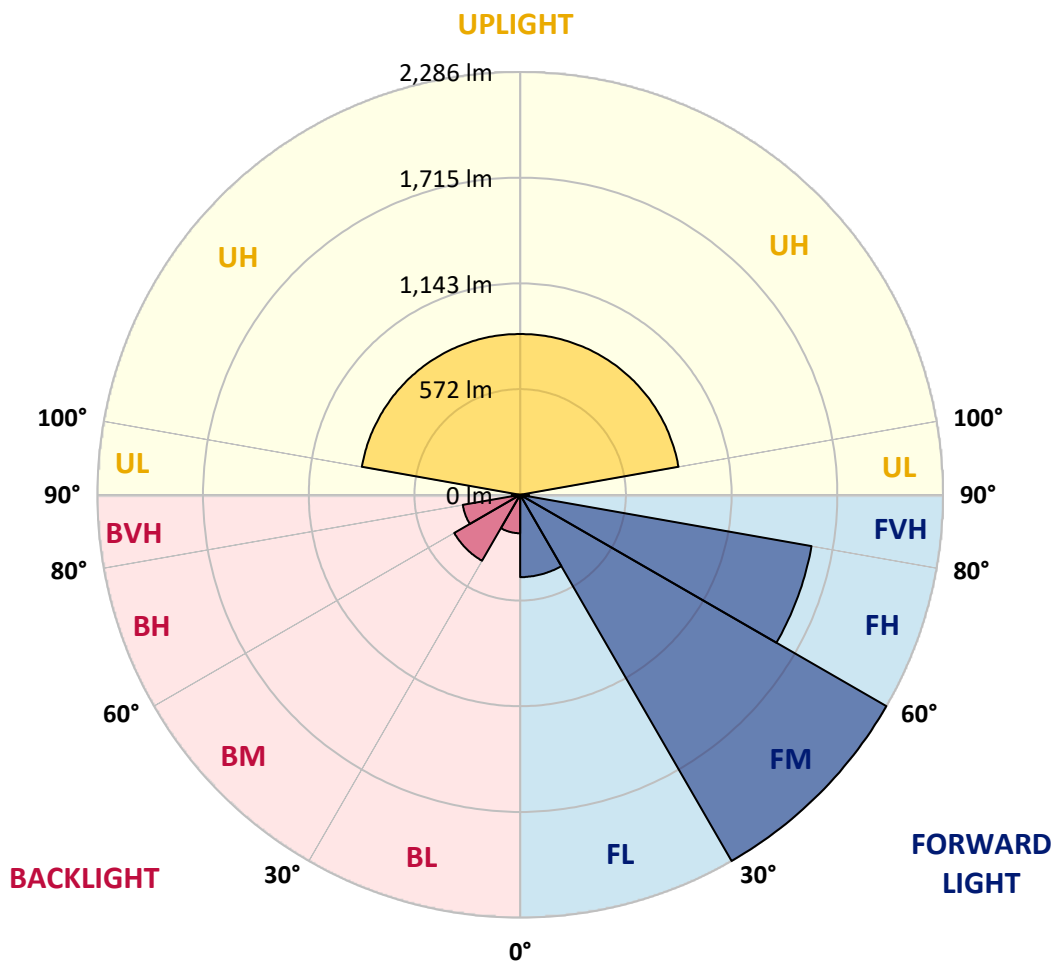
CATALOG NUMBER: IST-AF-1000-LED-E1-T2-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.1	6.3			
FM (30°-60°)	2286.5	32.2			
FH (60°-80°)	1599.7	22.5			G1/1800
FVH (80°-90°)	47.8	0.7			G1/100
BL (0°-30°)	208.1	2.9	B1/500		
BM (30°-60°)	411.9	5.8	B1/1000		
BH (60°-80°)	315.0	4.4	B1/500		G1/500
BVH (80°-90°)	45.8	0.6			G1/100
UL (90°-100°)	12.0	0.2		U2/50	
UH (100°-180°)	869.4	12.2		U4/1000	

BUG Rating: B1-U5-G1

Type II Medium





REPORT NUMBER: P226329

CATALOG NUMBER: IST-AF-1000-LED-E1-T2-7030-ULG

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6
2.5°	798.6	798.6	796.2	794.7	792.3	786.1	776.8	775.2	774.4	772.9	771.3
5°	856.9	850.7	852.3	848.4	839.8	828.9	811.8	803.2	798.6	797.8	794.7
7.5°	904.4	905.2	902.9	895.1	883.4	870.2	846.8	833.6	829.7	827.4	821.9
10°	938.7	936.3	934.8	933.2	923.9	913.0	883.4	867.1	863.9	857.7	851.5
12.5°	963.6	963.6	963.6	962.0	956.6	948.0	924.6	908.3	904.4	895.8	890.4
15°	990.8	987.7	984.6	982.2	983.0	983.0	965.9	953.4	947.2	942.5	931.7
17.5°	1049.2	1042.2	1035.2	1025.8	1011.0	1007.1	1006.4	1005.6	997.0	996.3	985.4
20°	1099.0	1092.8	1086.5	1077.2	1056.2	1033.6	1045.3	1056.2	1054.6	1055.4	1050.0
22.5°	1160.5	1155.8	1143.4	1132.5	1105.2	1078.0	1079.5	1102.9	1106.0	1109.1	1110.7
25°	1244.5	1242.2	1222.0	1201.0	1169.8	1144.1	1120.0	1148.8	1155.0	1162.0	1176.0
27.5°	1329.4	1323.9	1302.1	1283.5	1244.5	1217.3	1183.8	1199.4	1208.7	1222.0	1243.8
30°	1439.1	1424.3	1416.5	1374.5	1338.7	1299.0	1270.2	1274.9	1273.3	1288.9	1322.4
32.5°	1597.9	1574.5	1535.6	1493.6	1451.6	1398.6	1374.5	1373.7	1369.8	1387.7	1406.4
35°	1683.5	1678.1	1653.9	1611.9	1566.0	1516.2	1500.6	1485.8	1488.2	1497.5	1504.5
37.5°	1776.1	1771.5	1752.8	1729.4	1694.4	1721.6	1635.3	1613.5	1603.3	1598.7	1601.0
40°	1816.6	1820.5	1830.6	1834.5	1814.3	1945.0	1774.6	1703.0	1699.9	1692.8	1685.8
42.5°	1825.2	1835.3	1855.5	1899.9	1919.3	2204.2	1889.8	1803.4	1790.9	1785.5	1786.2
45°	1856.3	1871.9	1875.8	1916.2	2008.1	2217.4	2019.7	1892.1	1882.8	1882.0	1877.3
47.5°	1931.8	1952.8	1952.8	1970.7	2057.9	2243.1	2064.1	1980.8	1974.6	1971.5	1983.9
50°	1942.7	1970.7	2026.8	2084.3	2147.4	2264.1	2114.7	2077.3	2079.7	2086.7	2123.3
52.5°	1758.2	1786.2	1934.1	2103.8	2309.3	2321.7	2191.0	2205.8	2221.3	2255.6	2322.5
55°	1507.6	1527.8	1703.0	1974.6	2315.5	2540.4	2382.4	2423.7	2456.4	2466.5	2571.6
57.5°	1186.9	1215.0	1393.2	1745.8	2162.2	2602.7	2823.0	2841.7	2805.1	2838.5	2876.7
60°	642.9	639.8	888.1	1262.4	1840.0	2487.5	3247.9	3568.6	3576.4	3627.8	3566.3
62.5°	359.6	359.6	431.2	648.3	1183.8	2104.6	3451.9	4197.5	4294.8	4376.5	4556.3
65°	271.6	274.0	299.7	390.7	664.7	1328.6	3302.4	4412.3	4599.1	4786.7	5101.9
67.5°	225.7	225.7	244.4	291.1	415.6	603.2	2431.5	3981.1	4214.6	4438.8	4874.6
69°	209.4	210.1	224.2	256.1	347.9	392.3	1679.6	3375.6	3642.5	3953.1	4466.8
70°	201.6	199.3	212.5	238.9	315.2	309.8	1230.5	2935.1	3142.1	3420.7	4011.5
72.5°	179.0	176.7	183.7	203.9	248.3	221.0	502.0	1579.2	1891.3	2203.4	2674.3
75°	159.6	157.2	162.7	172.0	193.0	168.9	252.2	661.6	800.9	1035.2	1428.2
77.5°	140.9	136.2	140.9	147.1	151.8	126.1	171.2	305.9	375.2	460.8	650.7
80°	127.6	123.0	128.4	125.3	119.1	97.3	113.6	178.2	197.7	236.6	309.8
82.5°	91.1	90.3	122.2	126.1	95.0	70.8	80.9	114.4	127.6	134.6	163.4
85°	56.0	53.7	70.8	90.3	96.5	44.4	52.1	67.7	70.8	77.1	91.1
87.5°	28.8	29.6	38.1	46.7	63.0	26.5	31.1	39.7	39.7	39.7	45.1
90°	12.0	13.6	18.7	24.3	21.2	14.0	18.7	17.3	19.1	17.7	19.7
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0
95°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.5	7.6	7.7	7.9
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.0	10.8	10.6	10.2
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	27.5	27.2	26.9	26.3
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	48.5	48.2	47.9	47.3
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.0	70.8	70.6	70.2
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.5	94.4	94.3	94.1



REPORT NUMBER: P226329

CATALOG NUMBER: IST-AF-1000-LED-E1-T2-7030-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.5	120.6	120.7	120.9
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	149.0	149.2	149.4	149.8
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	180.5	180.8	181.1	181.7
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	213.0	213.4	213.8	214.6
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	248.0	248.4	248.8	249.6
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	281.0	281.4	281.8	282.6
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	314.0	314.2	314.4	314.8
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.5	345.6	345.7	345.9
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	379.0	379.4	379.8	380.6
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	413.5	414.0	414.5	415.5
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	445.5	446.0	446.5	447.5
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	474.0	474.2	474.4	474.8
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	501.0	501.2	501.4	501.8
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	530.0	530.6	531.2	532.4
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	559.0	559.6	560.2	561.4
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	582.5	583.0	583.5	584.5
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	598.5	598.8	599.1	599.7
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	612.5	612.8	613.1	613.7
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	628.5	629.0	629.5	630.5
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	646.0	646.4	646.8	647.6
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	661.0	661.6	662.2	663.4
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	669.0	669.4	669.8	670.6
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	674.5	675.0	675.5	676.5
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	681.0	681.6	682.2	683.4
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	687.5	687.8	688.1	688.7
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	690.5	690.8	691.1	691.7
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	692.5	693.0	693.5	694.5
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	696.5	697.0	697.5	698.5
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: P226329

CATALOG NUMBER: IST-AF-1000-LED-E1-T2-7030-ULG

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6
2.5°	772.1	769.8	766.6	767.4	765.9	763.5	764.3	763.5	764.3	762.8	761.2
5°	794.7	793.1	788.4	787.7	786.1	784.5	782.2	779.9	779.1	777.5	774.4
7.5°	820.4	815.7	813.3	810.2	806.3	800.1	799.3	796.2	793.9	792.3	788.4
10°	846.8	841.4	838.3	834.4	830.5	826.6	822.7	817.2	811.8	810.2	805.6
12.5°	886.5	879.5	873.3	867.1	863.2	856.2	850.7	843.7	838.3	835.9	828.1
15°	930.1	920.8	914.5	909.9	903.6	897.4	890.4	884.2	875.6	868.6	861.6
17.5°	981.5	972.9	968.2	959.7	951.9	944.9	939.4	931.7	924.6	912.2	906.0
20°	1049.2	1042.2	1036.7	1027.4	1018.8	1011.8	1007.1	990.8	981.5	970.6	960.4
22.5°	1112.2	1113.0	1107.6	1101.3	1095.9	1086.5	1078.8	1067.1	1055.4	1042.2	1028.2
25°	1180.7	1186.9	1187.7	1186.2	1183.0	1172.2	1168.3	1156.6	1147.2	1125.5	1119.2
27.5°	1257.0	1264.0	1272.6	1283.5	1285.8	1274.1	1279.6	1267.9	1251.5	1242.2	1222.0
30°	1330.9	1350.4	1368.3	1380.7	1388.5	1394.0	1390.1	1386.2	1375.3	1359.7	1341.8
32.5°	1425.9	1446.1	1464.0	1491.3	1505.3	1522.4	1519.3	1520.8	1516.9	1501.4	1480.4
35°	1521.6	1539.5	1562.9	1580.8	1615.0	1633.7	1649.3	1648.5	1648.5	1639.1	1618.9
37.5°	1606.5	1616.6	1636.0	1665.6	1688.2	1717.8	1742.7	1752.8	1769.1	1769.9	1748.1
40°	1695.2	1705.3	1720.1	1741.9	1766.8	1801.8	1835.3	1868.0	1883.5	1899.9	1891.3
42.5°	1790.9	1801.8	1812.7	1826.7	1862.5	1889.8	1934.9	1979.3	2011.2	2044.7	2040.8
45°	1885.9	1898.3	1913.9	1934.9	1966.8	2011.2	2054.8	2104.6	2177.7	2217.4	2244.7
47.5°	1993.3	2013.5	2042.3	2075.8	2101.5	2147.4	2202.7	2279.7	2353.6	2422.1	2464.9
50°	2155.2	2163.0	2209.7	2242.3	2291.4	2338.1	2393.3	2461.1	2556.8	2626.8	2695.3
52.5°	2345.9	2375.4	2422.1	2459.5	2498.4	2545.1	2601.9	2662.6	2757.6	2836.2	2924.9
55°	2591.8	2633.8	2674.3	2694.6	2749.0	2791.1	2837.0	2896.9	2998.9	3084.5	3188.8
57.5°	2885.2	2927.3	2946.7	2976.3	2999.7	3046.4	3108.6	3149.1	3239.4	3328.1	3438.6
60°	3487.7	3461.2	3484.5	3438.6	3431.6	3435.5	3448.7	3479.9	3530.5	3613.0	3729.7
62.5°	4575.0	4536.8	4435.7	4399.1	4328.2	4232.5	4142.2	4129.8	4103.3	4165.6	4238.7
65°	5210.1	5348.6	5363.4	5402.3	5374.3	5299.6	5193.7	5159.5	5073.9	5013.9	5010.1
67.5°	5057.5	5265.3	5395.3	5559.6	5650.6	5739.3	5762.7	5793.0	5737.8	5710.5	5718.3
69°	4633.3	4787.5	5078.5	5190.6	5334.6	5452.9	5608.6	5635.8	5689.5	5697.3	5800.8
70°	4213.1	4439.5	4606.1	4774.2	4973.5	5103.5	5173.5	5288.7	5421.8	5487.2	5599.2
72.5°	3029.2	3103.2	3221.5	3439.4	3494.7	3629.3	3767.1	3865.1	4021.6	4132.1	4396.0
75°	1634.5	1678.8	1864.9	1988.6	2021.3	2065.7	2166.8	2191.0	2249.4	2285.2	2538.9
77.5°	746.4	814.1	838.3	906.0	867.8	886.5	910.6	905.2	921.5	999.4	1088.1
80°	344.0	357.2	366.6	394.6	396.2	389.9	392.3	388.4	385.3	397.7	407.1
82.5°	167.3	187.6	187.6	204.7	213.3	210.9	215.6	214.0	217.2	214.0	224.2
85°	98.1	98.1	105.9	115.2	113.6	116.7	116.7	123.0	123.8	125.3	125.3
87.5°	45.9	50.6	52.9	56.8	58.4	60.7	62.3	62.3	63.0	61.5	63.0
90°	20.7	20.7	28.5	28.5	30.0	32.3	29.2	30.8	36.2	29.2	34.7
92.5°	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0
95°	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1	7.0
97.5°	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0
100°	26.0	25.7	25.4	25.1	24.8	24.5	24.2	23.9	23.6	23.3	23.0
102.5°	47.0	46.5	46.0	45.5	45.0	44.5	44.0	43.5	43.0	42.5	42.0
105°	70.0	69.5	69.0	68.5	68.0	67.5	67.0	66.5	66.0	65.5	65.0
107.5°	94.0	93.6	93.2	92.8	92.4	92.0	91.6	91.2	90.8	90.4	90.0



REPORT NUMBER: P226329

CATALOG NUMBER: IST-AF-1000-LED-E1-T2-7030-ULG

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
110°	121.0	120.8	120.6	120.4	120.2	120.0	119.8	119.6	119.4	119.2	119.0
112.5°	150.0	149.9	149.8	149.7	149.6	149.5	149.4	149.3	149.2	149.1	149.0
115°	182.0	181.7	181.4	181.1	180.8	180.5	180.2	179.9	179.6	179.3	179.0
117.5°	215.0	214.5	214.0	213.5	213.0	212.5	212.0	211.5	211.0	210.5	210.0
120°	250.0	249.5	249.0	248.5	248.0	247.5	247.0	246.5	246.0	245.5	245.0
122.5°	283.0	282.5	282.0	281.5	281.0	280.5	280.0	279.5	279.0	278.5	278.0
125°	315.0	314.5	314.0	313.5	313.0	312.5	312.0	311.5	311.0	310.5	310.0
127.5°	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0
130°	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
132.5°	416.0	415.8	415.6	415.4	415.2	415.0	414.8	414.6	414.4	414.2	414.0
135°	448.0	447.9	447.8	447.7	447.6	447.5	447.4	447.3	447.2	447.1	447.0
137.5°	475.0	475.1	475.2	475.3	475.4	475.5	475.6	475.7	475.8	475.9	476.0
140°	502.0	502.2	502.4	502.6	502.8	503.0	503.2	503.4	503.6	503.8	504.0
142.5°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
145°	562.0	561.9	561.8	561.7	561.6	561.5	561.4	561.3	561.2	561.1	561.0
147.5°	585.0	585.1	585.2	585.3	585.4	585.5	585.6	585.7	585.8	585.9	586.0
150°	600.0	600.3	600.6	600.9	601.2	601.5	601.8	602.1	602.4	602.7	603.0
152.5°	614.0	614.4	614.8	615.2	615.6	616.0	616.4	616.8	617.2	617.6	618.0
155°	631.0	631.5	632.0	632.5	633.0	633.5	634.0	634.5	635.0	635.5	636.0
157.5°	648.0	648.2	648.4	648.6	648.8	649.0	649.2	649.4	649.6	649.8	650.0
160°	664.0	663.7	663.4	663.1	662.8	662.5	662.2	661.9	661.6	661.3	661.0
162.5°	671.0	670.9	670.8	670.7	670.6	670.5	670.4	670.3	670.2	670.1	670.0
165°	677.0	677.3	677.6	677.9	678.2	678.5	678.8	679.1	679.4	679.7	680.0
167.5°	684.0	684.4	684.8	685.2	685.6	686.0	686.4	686.8	687.2	687.6	688.0
170°	689.0	689.5	690.0	690.5	691.0	691.5	692.0	692.5	693.0	693.5	694.0
172.5°	692.0	692.2	692.4	692.6	692.8	693.0	693.2	693.4	693.6	693.8	694.0
175°	695.0	695.1	695.2	695.3	695.4	695.5	695.6	695.7	695.8	695.9	696.0
177.5°	699.0	699.2	699.4	699.6	699.8	700.0	700.2	700.4	700.6	700.8	701.0
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: P226329

CATALOG NUMBER: IST-AF-1000-LED-E1-T2-7030-ULG

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6
2.5°	759.6	761.2	760.4	757.3	756.5	756.5	755.0	754.2	752.6	751.9	753.4
5°	773.7	773.7	771.3	768.2	765.1	764.3	763.5	759.6	758.1	756.5	755.0
7.5°	786.9	785.3	782.2	776.8	773.7	772.9	769.8	765.9	762.0	758.9	757.3
10°	800.9	799.3	793.1	789.2	783.0	782.2	776.8	772.1	768.2	764.3	761.2
12.5°	821.1	819.6	812.6	803.2	798.6	795.4	788.4	783.0	777.5	772.9	767.4
15°	852.3	846.0	841.4	832.0	825.0	818.8	810.2	802.4	794.7	786.9	782.2
17.5°	895.8	887.3	874.8	869.4	860.0	849.9	838.3	832.8	822.7	813.3	804.0
20°	952.7	944.1	924.6	917.6	904.4	889.6	880.3	868.6	860.0	845.3	835.1
22.5°	1015.7	1007.9	989.2	970.6	958.1	946.4	931.7	916.9	900.5	886.5	875.6
25°	1097.4	1085.8	1069.4	1050.7	1032.1	1015.7	995.5	974.5	960.4	941.0	925.4
27.5°	1208.7	1188.5	1161.3	1141.0	1126.2	1101.3	1076.4	1057.7	1035.9	1010.3	993.1
30°	1329.4	1306.8	1286.6	1263.2	1238.3	1214.2	1179.9	1152.7	1129.3	1102.1	1074.1
32.5°	1463.2	1443.8	1415.0	1384.6	1357.4	1327.0	1302.1	1273.3	1232.9	1204.1	1174.5
35°	1597.9	1575.3	1545.7	1520.1	1488.9	1457.8	1429.8	1391.6	1355.1	1313.8	1272.6
37.5°	1727.9	1708.4	1675.7	1636.8	1609.6	1576.1	1547.3	1506.8	1463.2	1417.3	1386.2
40°	1872.6	1841.5	1818.9	1773.8	1745.8	1708.4	1667.2	1636.0	1594.0	1544.2	1499.8
42.5°	2038.4	2016.6	1992.5	1955.9	1926.3	1882.0	1829.8	1790.1	1751.2	1692.1	1630.6
45°	2248.6	2234.6	2194.9	2165.3	2125.6	2078.9	2033.8	1985.5	1924.0	1855.5	1799.5
47.5°	2500.7	2489.9	2454.0	2412.0	2359.9	2296.8	2254.8	2188.6	2136.5	2050.9	1983.9
50°	2729.6	2735.0	2715.6	2651.0	2604.3	2541.2	2475.1	2417.5	2337.3	2248.6	2163.0
52.5°	3002.8	2997.3	2948.3	2912.5	2857.2	2780.9	2708.6	2634.6	2546.7	2454.8	2348.2
55°	3264.3	3280.6	3246.4	3195.8	3128.9	3022.2	2949.1	2853.3	2760.7	2659.5	2536.6
57.5°	3518.0	3570.2	3543.7	3483.8	3415.3	3338.2	3241.7	3134.3	3038.6	2906.3	2767.7
60°	3834.0	3903.3	3914.2	3875.3	3800.5	3711.0	3584.2	3500.1	3368.6	3246.4	3139.8
62.5°	4320.5	4477.7	4468.3	4487.0	4434.1	4378.8	4230.2	4139.9	3968.7	3880.7	3732.1
65°	5133.0	5249.0	5388.3	5383.7	5347.1	5214.8	5060.6	4909.7	4796.8	4623.2	4468.3
67.5°	5814.8	5910.6	5993.1	5950.3	5866.2	5717.6	5537.0	5326.8	5154.8	4963.4	4760.2
69°	5878.7	5995.4	6043.7	5990.7	5839.7	5645.9	5469.3	5273.9	5037.3	4873.1	4625.6
70°	5707.4	5822.6	5919.9	5783.7	5645.2	5456.0	5263.0	5059.9	4848.2	4671.5	4421.6
72.5°	4533.7	4663.7	4650.5	4635.7	4525.2	4336.0	4158.6	4049.6	3900.9	3687.7	3507.1
75°	2636.2	2696.1	2591.0	2701.6	2569.2	2378.6	2403.5	2280.5	2171.5	2048.5	1953.6
77.5°	1035.2	1088.1	1032.8	1014.9	955.8	942.5	843.7	855.4	806.3	709.8	665.5
80°	392.3	399.3	389.9	370.5	366.6	344.0	337.8	316.0	305.9	274.0	262.3
82.5°	210.9	214.8	208.6	202.4	197.7	184.5	175.9	159.6	150.2	140.1	139.3
85°	121.4	118.3	115.2	112.1	105.1	97.3	91.1	84.8	77.8	72.4	66.9
87.5°	63.8	64.6	65.4	62.3	57.6	51.4	47.5	45.1	39.7	37.4	35.0
90°	29.8	24.2	26.3	30.8	29.0	24.9	23.9	21.4	18.9	18.7	16.3
92.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.1	8.0	8.0
100°	22.6	22.2	21.8	21.4	21.0	20.6	20.2	19.8	19.4	19.0	19.0
102.5°	41.7	41.4	41.1	40.8	40.5	40.2	39.9	39.6	39.3	39.0	38.8
105°	64.6	64.2	63.8	63.4	63.0	62.6	62.2	61.8	61.4	61.0	61.0
107.5°	89.7	89.4	89.1	88.8	88.5	88.2	87.9	87.6	87.3	87.0	86.8



REPORT NUMBER: P226329
 CATALOG NUMBER: IST-AF-1000-LED-E1-T2-7030-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
110°	118.7	118.4	118.1	117.8	117.5	117.2	116.9	116.6	116.3	116.0	116.2	0°
112.5°	148.8	148.6	148.4	148.2	148.0	147.8	147.6	147.4	147.2	147.0	147.0	2.5°
115°	178.8	178.6	178.4	178.2	178.0	177.8	177.6	177.4	177.2	177.0	177.2	5°
117.5°	209.8	209.6	209.4	209.2	209.0	208.8	208.6	208.4	208.2	208.0	208.2	7.5°
120°	244.8	244.6	244.4	244.2	244.0	243.8	243.6	243.4	243.2	243.0	243.0	10°
122.5°	277.8	277.6	277.4	277.2	277.0	276.8	276.6	276.4	276.2	276.0	276.2	12.5°
125°	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°
127.5°	345.9	345.8	345.7	345.6	345.5	345.4	345.3	345.2	345.1	345.0	345.4	17.5°
130°	380.8	380.6	380.4	380.2	380.0	379.8	379.6	379.4	379.2	379.0	379.2	20°
132.5°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.2	22.5°
135°	447.3	447.6	447.9	448.2	448.5	448.8	449.1	449.4	449.7	450.0	450.2	25°
137.5°	476.5	477.0	477.5	478.0	478.5	479.0	479.5	480.0	480.5	481.0	481.2	27.5°
140°	504.5	505.0	505.5	506.0	506.5	507.0	507.5	508.0	508.5	509.0	509.4	30°
142.5°	533.1	533.2	533.3	533.4	533.5	533.6	533.7	533.8	533.9	534.0	534.4	32.5°
145°	560.7	560.4	560.1	559.8	559.5	559.2	558.9	558.6	558.3	558.0	558.4	35°
147.5°	585.7	585.4	585.1	584.8	584.5	584.2	583.9	583.6	583.3	583.0	583.4	37.5°
150°	603.3	603.6	603.9	604.2	604.5	604.8	605.1	605.4	605.7	606.0	606.8	40°
152.5°	618.5	619.0	619.5	620.0	620.5	621.0	621.5	622.0	622.5	623.0	624.0	42.5°
155°	636.2	636.4	636.6	636.8	637.0	637.2	637.4	637.6	637.8	638.0	638.6	45°
157.5°	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	651.0	47.5°
160°	660.9	660.8	660.7	660.6	660.5	660.4	660.3	660.2	660.1	660.0	661.2	50°
162.5°	669.8	669.6	669.4	669.2	669.0	668.8	668.6	668.4	668.2	668.0	669.2	52.5°
165°	679.8	679.6	679.4	679.2	679.0	678.8	678.6	678.4	678.2	678.0	678.8	55°
167.5°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	689.2	57.5°
170°	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	697.0	60°
172.5°	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	697.0	62.5°
175°	695.8	695.6	695.4	695.2	695.0	694.8	694.6	694.4	694.2	694.0	695.0	65°
177.5°	700.7	700.4	700.1	699.8	699.5	699.2	698.9	698.6	698.3	698.0	698.8	67.5°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	69°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P226329
 NUMBER: IST-AF-1000-LED-E1-T2-7030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	110°	116.4
751.1	751.1	748.7	747.2	741.7	732.4	723.1	714.5	702.8	698.2	691.9	112.5°	147.0
753.4	751.9	749.5	746.4	735.5	713.7	691.1	667.0	642.1	619.5	593.1	115°	177.4
755.0	751.9	748.7	744.9	729.3	695.8	650.7	603.2	558.8	525.4	511.4	117.5°	208.4
755.8	753.4	749.5	744.1	722.3	672.5	600.1	531.6	492.7	479.4	477.1	120°	243.0
764.3	760.4	754.2	748.0	719.2	646.8	543.3	477.9	462.3	468.5	479.4	122.5°	276.4
775.2	770.5	762.8	756.5	717.6	613.3	488.0	447.5	453.0	470.1	488.0	125°	310.0
794.7	786.9	778.3	772.1	720.7	572.1	443.6	432.0	448.3	470.1	494.2	127.5°	345.8
823.5	812.6	802.4	791.6	725.4	520.7	417.2	421.9	441.3	464.7	491.1	130°	379.4
859.3	846.8	832.8	816.5	730.8	476.3	402.4	411.0	428.9	449.1	470.9	132.5°	414.4
907.5	890.4	872.5	852.3	738.6	428.1	389.2	398.5	409.4	421.1	432.0	135°	450.4
968.2	944.9	925.4	898.2	746.4	395.4	378.3	381.4	383.7	385.3	384.5	137.5°	481.4
1049.2	1013.4	990.8	957.3	755.0	378.3	365.8	361.9	358.0	352.6	346.4	140°	509.8
1134.8	1105.2	1069.4	1026.6	760.4	366.6	354.1	341.7	330.8	325.3	325.3	142.5°	534.8
1234.4	1197.8	1152.7	1099.0	753.4	354.1	338.6	322.2	316.0	323.0	320.7	145°	558.8
1334.0	1283.5	1233.6	1172.2	736.3	340.1	321.4	312.9	317.6	308.2	302.8	147.5°	583.8
1443.8	1387.7	1318.5	1246.9	711.4	325.3	312.9	317.6	301.2	290.3	295.0	150°	607.6
1566.8	1500.6	1425.9	1328.6	695.0	316.0	299.7	303.5	289.5	281.8	279.4	152.5°	625.0
1734.1	1639.9	1548.9	1434.4	707.5	301.2	274.0	289.5	281.8	274.7	268.5	155°	639.2
1898.3	1797.9	1690.5	1555.9	729.3	290.3	253.7	274.7	280.2	268.5	256.8	157.5°	652.0
2063.3	1956.7	1831.4	1681.2	755.8	283.3	238.2	256.8	276.3	262.3	253.0	160°	662.4
2236.9	2102.2	1973.8	1811.9	790.0	276.3	225.7	241.3	269.3	262.3	248.3	162.5°	670.4
2419.0	2260.2	2131.8	1956.7	849.9	266.2	210.1	228.8	262.3	261.5	243.6	165°	679.6
2630.7	2489.1	2324.1	2145.8	933.2	254.5	196.1	219.5	256.1	258.4	238.2	167.5°	690.4
2991.1	2844.8	2645.5	2475.8	1098.2	238.9	187.6	210.1	245.9	252.2	233.5	170°	698.0
3575.6	3376.4	3193.5	3034.7	1380.7	217.2	181.3	200.0	235.1	244.4	229.6	172.5°	698.0
4245.7	4051.2	3830.1	3563.2	1538.0	196.9	172.8	187.6	224.2	236.6	225.7	175°	696.0
4530.6	4276.1	4007.6	3690.8	1387.7	180.6	163.4	175.9	211.7	225.7	220.3	177.5°	699.6
4399.9	4142.2	3830.1	3519.6	1207.2	172.0	158.0	169.7	202.4	218.7	214.8	180°	700.0
4172.6	3913.4	3634.8	3261.9	1078.0	167.3	154.1	165.8	198.5	214.8	211.7		
3300.1	3068.9	2812.1	2528.0	734.7	151.8	141.7	154.1	182.9	200.8	200.0		
1748.9	1681.2	1491.3	1324.7	380.6	135.4	128.4	140.9	168.9	187.6	187.6		
629.7	571.3	546.4	453.8	202.4	118.3	115.2	124.5	153.3	171.2	170.5		
238.2	231.9	207.8	194.6	128.4	96.5	97.3	106.6	134.6	151.8	151.0		
134.6	122.2	118.3	114.4	81.7	76.3	80.2	89.5	115.2	130.0	132.3		
64.6	59.9	58.4	54.5	53.7	58.4	63.0	70.8	91.8	109.7	107.4		
31.1	29.6	28.8	28.0	38.1	37.4	45.9	49.0	61.5	87.2	78.6		
17.1	17.1	16.3	14.8	17.9	21.5	23.8	28.0	32.7	58.6	49.3		
6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	6.0	6.0	6.0		
7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0	7.0	7.0	7.0		
8.0	8.0	8.0	8.0	8.0	9.0	10.0	12.0	9.0	9.0	8.0		
19.0	19.0	19.0	19.0	19.0	23.0	26.0	29.0	21.0	12.0	10.0		
38.6	38.4	38.2	38.0	39.0	42.0	47.0	50.0	40.0	27.0	18.0		
61.0	61.0	61.0	61.0	61.0	65.0	70.0	72.0	63.0	48.0	36.0		
86.6	86.4	86.2	86.0	87.0	90.0	94.0	95.0	88.0	73.0	58.0		

'226329
 IST-AF-1000-LED-E1-T2-7030-ULG

REPORT NUMBER: P226329
 CATALOG NUMBER: IST-AF-10

TION (continued):

CANDELA DISTRIBUTION (con

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
116.6	116.8	117.0	116.0	119.0	121.0	120.0	114.0	102.0	87.0	0°	745.6	745.6
147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	121.0	2.5°	686.5	675.6
177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	159.0	5°	573.6	572.1
208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	197.0	7.5°	502.8	492.7
243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	233.0	10°	479.4	478.7
276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	267.0	12.5°	489.6	491.9
310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	299.0	15°	502.8	507.5
346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	333.0	17.5°	511.4	519.9
379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	366.0	20°	509.0	519.1
414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	401.0	22.5°	483.3	488.0
450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	432.0	25°	437.4	439.0
481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	460.0	27.5°	382.2	380.6
510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	489.0	30°	343.2	333.1
535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	518.0	32.5°	325.3	319.1
559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	547.0	35°	312.9	302.8
584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	574.0	37.5°	324.6	323.8
608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	593.0	40°	335.5	333.9
626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	609.0	42.5°	316.8	302.8
639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	627.0	45°	282.5	266.2
653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	644.0	47.5°	259.2	249.8
663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	656.0	50°	248.3	245.2
671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	665.0	52.5°	245.2	253.0
680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	676.0	55°	243.6	252.2
691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	686.0	57.5°	232.7	247.5
699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	692.0	60°	224.9	242.8
699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	693.0	62.5°	220.3	240.5
697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	695.0	65°	216.4	242.1
700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	699.0	67.5°	210.1	246.7
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	69°	207.0	245.9
										70°	203.9	243.6
										72.5°	193.0	224.9
										75°	179.8	198.5
										77.5°	162.7	170.5
										80°	144.0	148.7
										82.5°	125.3	143.2
										85°	98.1	121.4
										87.5°	72.4	66.9
										90°	48.3	35.4
										92.5°	5.0	4.0
										95°	6.0	5.0
										97.5°	8.0	7.0
										100°	9.0	8.0
										102.5°	13.0	11.0
										105°	27.0	22.0
										107.5°	49.0	42.0



REPORT NUMBER: P226329

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

00-LED-E1-T2-7030-ULG

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180°
745.6
677.9
567.4
493.5
481.0
490.3
509.0
523.0
521.5
491.9
440.5
386.8
340.9
326.1
307.4
327.7
337.0
305.9
266.2
248.3
243.6
255.3
251.4
248.3
243.6
239.7
238.9
240.5
237.4
233.5
210.1
189.1
170.5
150.2
126.9
95.0
72.4
30.7
4.0
5.0
7.0
8.0
11.0
21.0
41.0

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
110°	74.0	68.0	66.0
112.5°	106.0	99.0	99.0
115°	147.0	139.0	140.0
117.5°	189.0	184.0	184.0
120°	226.0	223.0	225.0
122.5°	261.0	260.0	263.0
125°	296.0	294.0	298.0
127.5°	329.0	329.0	330.0
130°	362.0	361.0	363.0
132.5°	393.0	394.0	396.0
135°	426.0	426.0	429.0
137.5°	459.0	457.0	460.0
140°	487.0	485.0	488.0
142.5°	517.0	515.0	518.0
145°	544.0	546.0	550.0
147.5°	571.0	572.0	575.0
150°	593.0	592.0	595.0
152.5°	608.0	608.0	611.0
155°	625.0	625.0	629.0
157.5°	643.0	643.0	646.0
160°	659.0	660.0	663.0
162.5°	669.0	669.0	673.0
165°	676.0	678.0	681.0
167.5°	684.0	687.0	690.0
170°	692.0	695.0	698.0
172.5°	695.0	697.0	699.0
175°	697.0	698.0	700.0
177.5°	700.0	705.0	707.0
180°	700.0	700.0	700.0

(END OF F

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

