

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: P226326

Luminaire Tested: **IST-AF-1000-LED-E1-T2-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226326
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-T2-8030-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, WITH UPLIGHT GLOW
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6678.5 lumens
Efficiency: N/A
Efficacy: 93.7 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

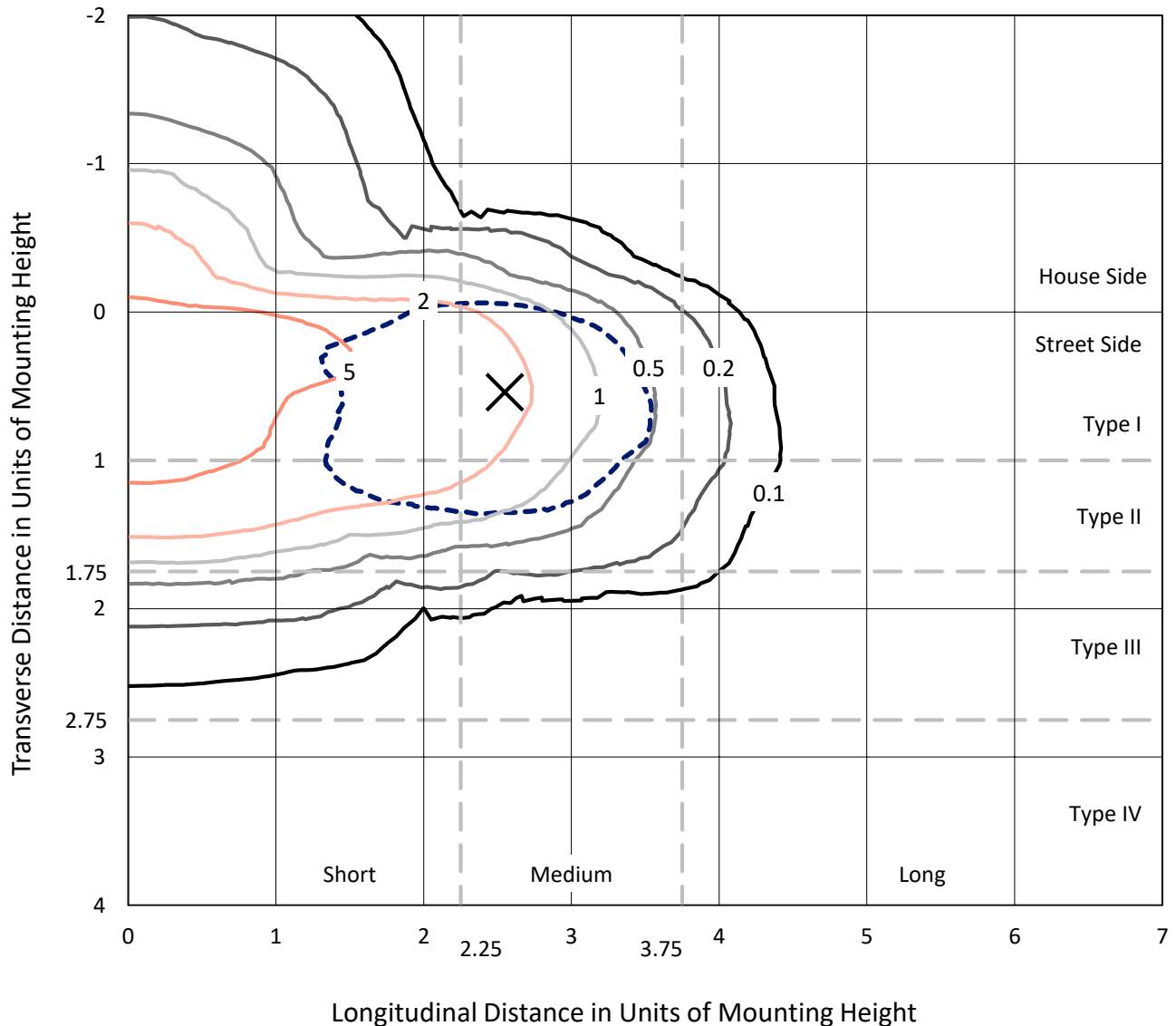


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

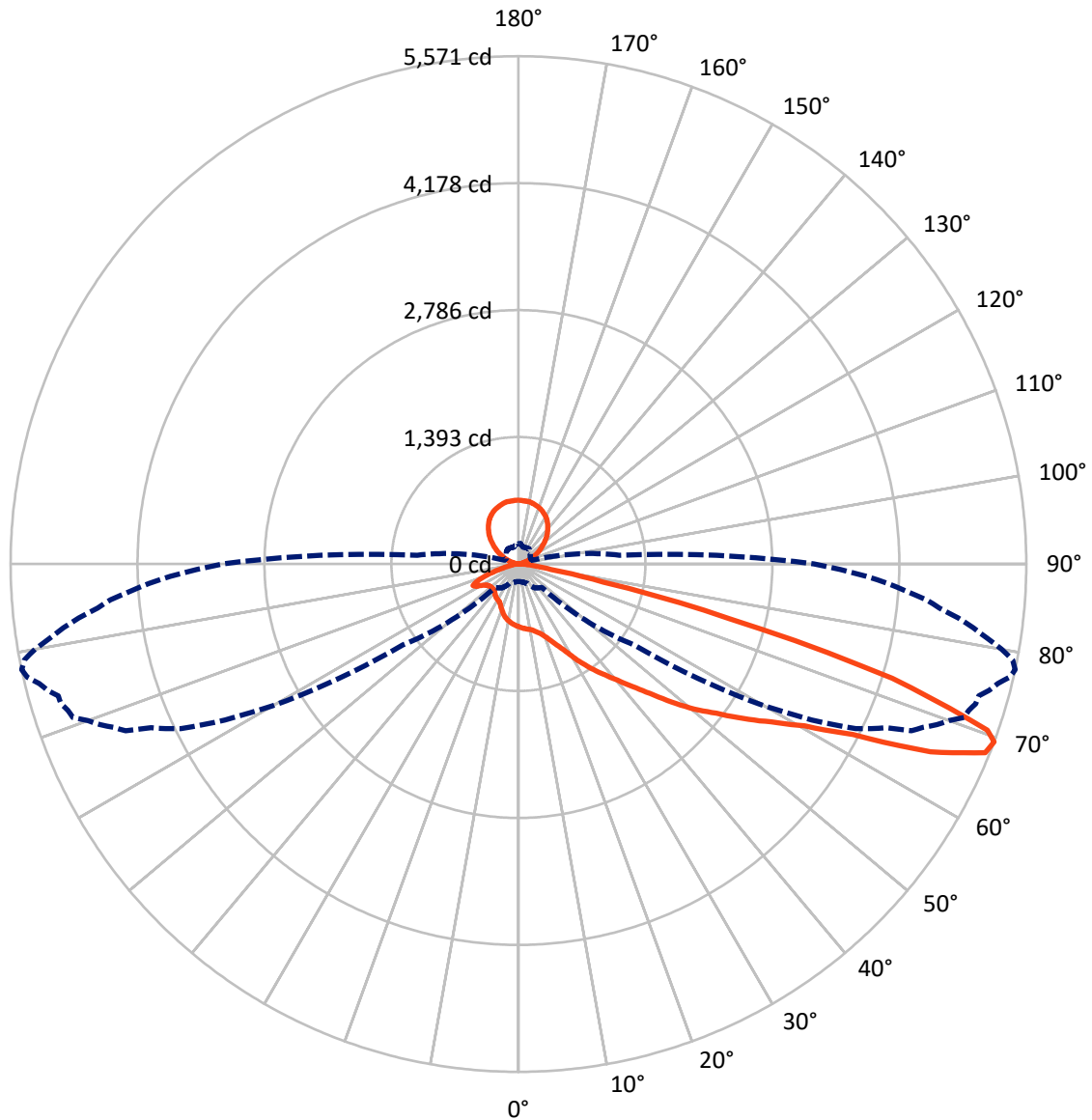


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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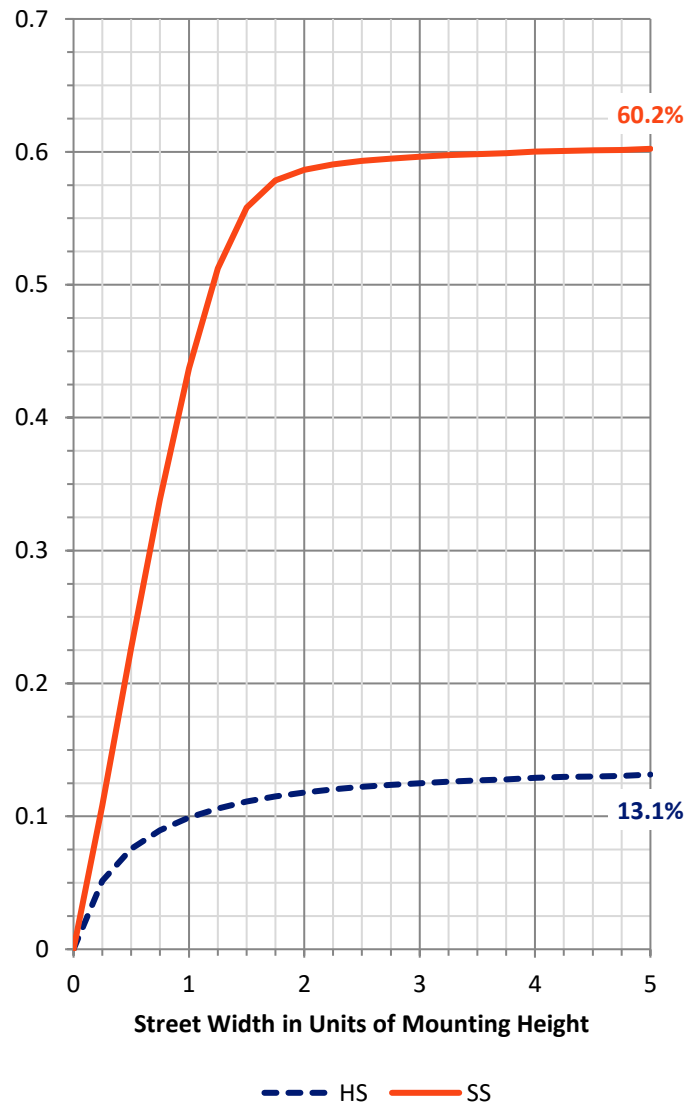
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	904.1	869.3	1773.4
	% Fixture	13.5	13.0	26.6
Street Side	Lumens	4036.7	868.4	4905.1
	% Fixture	60.4	13.0	73.4
Total	Lumens	4940.9	1737.7	6678.5
	% Fixture	74.0	26.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	1.0
10°-20°	192.7	2.9
20°-30°	345.5	5.2
30°-40°	564.0	8.4
40°-50°	834.2	12.5
50°-60°	1089.2	16.3
60°-70°	1218.2	18.2
70°-80°	546.9	8.2
80°-90°	86.3	1.3
90°-100°	11.8	0.2
100°-110°	57.4	0.9
110°-120°	166.1	2.5
120°-130°	273.2	4.1
130°-140°	336.8	5.0
140°-150°	344.6	5.2
150°-160°	290.3	4.3
160°-170°	191.2	2.9
170°-180°	66.3	1.0
0°-90°	4940.9	74.0
0°-180°	6678.5	100.0



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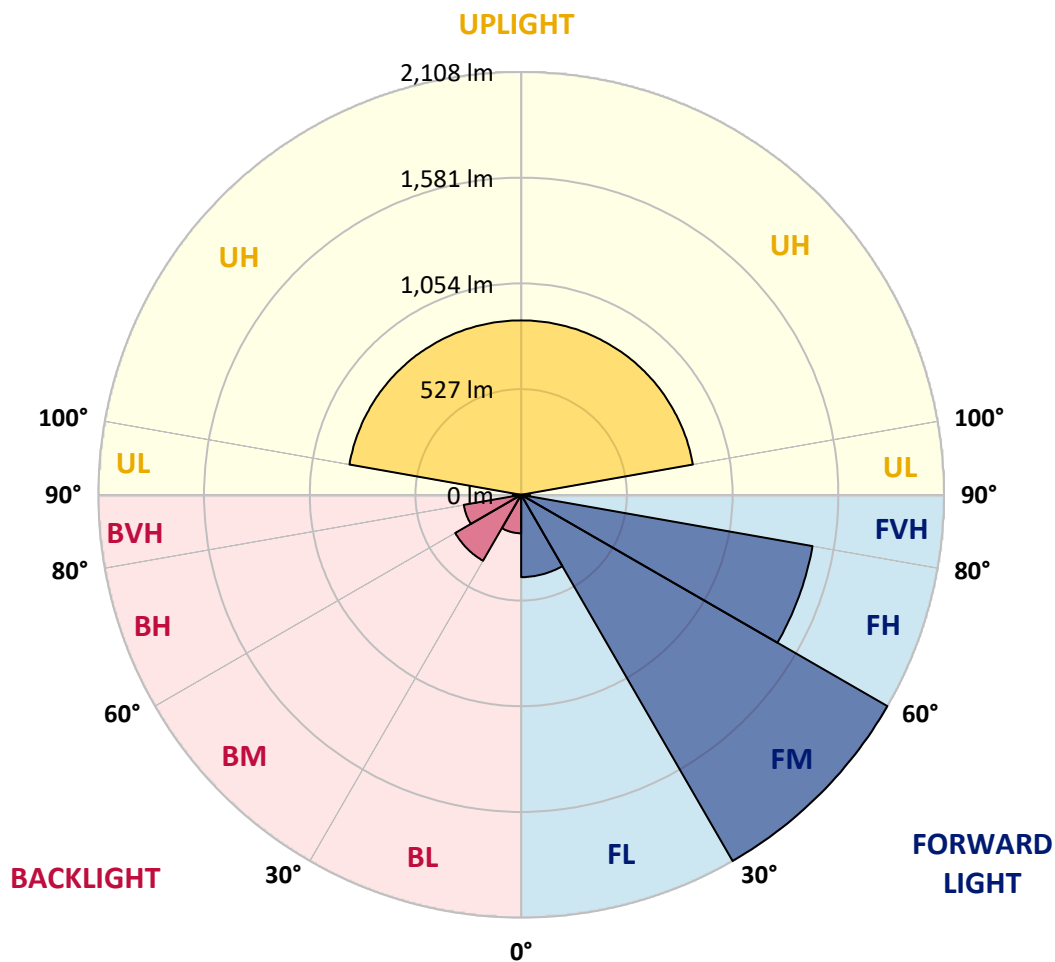
CATALOG NUMBER: IST-AF-1000-LED-E1-T2-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.3	6.1			
FM (30°-60°)	2107.7	31.6			
FH (60°-80°)	1474.7	22.1			G1/1800
FVH (80°-90°)	44.1	0.7			G1/100
BL (0°-30°)	191.8	2.9	B1/500		
BM (30°-60°)	379.7	5.7	B1/1000		
BH (60°-80°)	290.4	4.3	B1/500		G1/500
BVH (80°-90°)	42.3	0.6			G1/100
UL (90°-100°)	11.8	0.2		U2/50	
UH (100°-180°)	869.3	13.0		U4/1000	

BUG Rating: B1-U5-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3
2.5°	736.1	736.1	734.0	732.5	730.4	724.7	716.0	714.6	713.9	712.5	711.0
5°	789.9	784.2	785.6	782.0	774.2	764.1	748.3	740.4	736.1	735.4	732.5
7.5°	833.7	834.4	832.3	825.1	814.3	802.1	780.6	768.4	764.8	762.7	757.7
10°	865.3	863.1	861.7	860.3	851.6	841.6	814.3	799.3	796.4	790.7	784.9
12.5°	888.2	888.2	888.2	886.8	881.8	873.9	852.4	837.3	833.7	825.8	820.8
15°	913.3	910.5	907.6	905.5	906.2	906.2	890.4	878.9	873.2	868.9	858.8
17.5°	967.2	960.7	954.2	945.6	932.0	928.4	927.7	927.0	919.1	918.4	908.3
20°	1013.1	1007.3	1001.6	993.0	973.6	952.8	963.6	973.6	972.2	972.9	967.9
22.5°	1069.8	1065.5	1054.0	1043.9	1018.8	993.7	995.1	1016.7	1019.5	1022.4	1023.8
25°	1147.2	1145.1	1126.4	1107.1	1078.4	1054.7	1032.4	1059.0	1064.7	1071.2	1084.1
27.5°	1225.5	1220.4	1200.3	1183.1	1147.2	1122.1	1091.3	1105.6	1114.2	1126.4	1146.5
30°	1326.6	1313.0	1305.8	1267.1	1234.1	1197.5	1170.9	1175.2	1173.8	1188.1	1219.0
32.5°	1473.0	1451.5	1415.6	1376.8	1338.1	1289.3	1267.1	1266.3	1262.8	1279.3	1296.5
35°	1551.9	1546.9	1524.6	1485.9	1443.6	1397.6	1383.3	1369.7	1371.8	1380.4	1386.9
37.5°	1637.3	1633.0	1615.8	1594.2	1561.9	1587.1	1507.4	1487.3	1478.0	1473.7	1475.9
40°	1674.6	1678.2	1687.5	1691.1	1672.4	1793.0	1635.8	1569.8	1567.0	1560.5	1554.1
42.5°	1682.5	1691.8	1710.5	1751.4	1769.3	2031.9	1742.0	1662.4	1650.9	1645.9	1646.6
45°	1711.2	1725.5	1729.1	1766.4	1851.1	2044.1	1861.9	1744.2	1735.6	1734.9	1730.6
47.5°	1780.8	1800.1	1800.1	1816.7	1897.0	2067.8	1902.7	1826.0	1820.2	1817.4	1828.8
50°	1790.8	1816.7	1868.3	1921.4	1979.5	2087.1	1949.4	1914.9	1917.1	1923.6	1957.3
52.5°	1620.8	1646.6	1782.9	1939.3	2128.8	2140.2	2019.7	2033.3	2047.7	2079.2	2141.0
55°	1389.8	1408.4	1569.8	1820.2	2134.5	2341.8	2196.2	2234.2	2264.4	2273.7	2370.5
57.5°	1094.2	1120.0	1284.3	1609.3	1993.2	2399.2	2602.3	2619.5	2585.8	2616.6	2651.8
60°	592.6	589.8	818.6	1163.7	1696.1	2293.1	2994.0	3289.6	3296.8	3344.2	3287.5
62.5°	331.5	331.5	397.5	597.7	1091.3	1940.1	3182.0	3869.4	3959.0	4034.4	4200.1
65°	250.4	252.6	276.2	360.2	612.7	1224.7	3044.3	4067.4	4239.6	4412.5	4703.1
67.5°	208.1	208.1	225.3	268.3	383.1	556.0	2241.4	3669.9	3885.1	4091.8	4493.6
69°	193.0	193.7	206.6	236.0	320.7	361.6	1548.3	3111.7	3357.8	3644.1	4117.6
70°	185.8	183.7	195.9	220.3	290.6	285.6	1134.3	2705.6	2896.5	3153.3	3697.9
72.5°	165.0	162.9	169.3	188.0	228.9	203.8	462.8	1455.8	1743.5	2031.2	2465.3
75°	147.1	144.9	150.0	158.6	177.9	155.7	232.5	609.9	738.3	954.2	1316.6
77.5°	129.9	125.6	129.9	135.6	139.9	116.2	157.8	282.0	345.8	424.7	599.8
80°	117.7	113.4	118.4	115.5	109.8	89.7	104.8	164.3	182.2	218.1	285.6
82.5°	83.9	83.2	112.6	116.2	87.5	65.3	74.6	105.5	117.7	124.1	150.7
85°	51.7	49.5	65.3	83.2	89.0	40.9	48.1	62.4	65.3	71.0	83.9
87.5°	26.5	27.3	35.2	43.0	58.1	24.4	28.7	36.6	36.6	36.6	41.6
90°	11.5	12.9	17.8	23.1	20.2	13.5	17.8	16.6	18.2	17.0	18.8
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



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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



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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3
2.5°	711.7	709.6	706.7	707.4	706.0	703.8	704.6	703.8	704.6	703.1	701.7
5°	732.5	731.1	726.8	726.1	724.7	723.2	721.1	718.9	718.2	716.8	713.9
7.5°	756.2	751.9	749.8	746.9	743.3	737.6	736.8	734.0	731.8	730.4	726.8
10°	780.6	775.6	772.7	769.1	765.5	762.0	758.4	753.4	748.3	746.9	742.6
12.5°	817.2	810.7	805.0	799.3	795.7	789.2	784.2	777.7	772.7	770.6	763.4
15°	857.4	848.8	843.0	838.7	833.0	827.3	820.8	815.1	807.2	800.7	794.2
17.5°	904.7	896.8	892.5	884.6	877.5	871.0	866.0	858.8	852.4	840.9	835.1
20°	967.2	960.7	955.7	947.1	939.2	932.7	928.4	913.3	904.7	894.7	885.4
22.5°	1025.3	1026.0	1021.0	1015.2	1010.2	1001.6	994.4	983.7	972.9	960.7	947.8
25°	1088.4	1094.2	1094.9	1093.4	1090.6	1080.5	1076.9	1066.2	1057.6	1037.5	1031.7
27.5°	1158.7	1165.2	1173.1	1183.1	1185.3	1174.5	1179.5	1168.8	1153.7	1145.1	1126.4
30°	1226.9	1244.8	1261.3	1272.8	1280.0	1285.0	1281.4	1277.8	1267.8	1253.4	1236.9
32.5°	1314.4	1333.1	1349.6	1374.7	1387.6	1403.4	1400.5	1402.0	1398.4	1384.0	1364.6
35°	1402.7	1419.2	1440.7	1457.2	1488.8	1506.0	1520.3	1519.6	1519.6	1511.0	1492.4
37.5°	1480.9	1490.2	1508.1	1535.4	1556.2	1583.5	1606.4	1615.8	1630.8	1631.5	1611.5
40°	1562.7	1572.0	1585.6	1605.7	1628.7	1661.0	1691.8	1721.9	1736.3	1751.4	1743.5
42.5°	1650.9	1661.0	1671.0	1683.9	1716.9	1742.0	1783.6	1824.5	1854.0	1884.8	1881.2
45°	1738.4	1749.9	1764.3	1783.6	1813.1	1854.0	1894.1	1940.1	2007.5	2044.1	2069.2
47.5°	1837.5	1856.1	1882.7	1913.5	1937.2	1979.5	2030.5	2101.5	2169.7	2232.8	2272.2
50°	1986.7	1993.9	2036.9	2067.1	2112.3	2155.3	2206.2	2268.7	2356.9	2421.5	2484.6
52.5°	2162.5	2189.7	2232.8	2267.2	2303.1	2346.1	2398.5	2454.5	2542.0	2614.5	2696.3
55°	2389.2	2427.9	2465.3	2483.9	2534.1	2572.9	2615.2	2670.4	2764.4	2843.4	2939.5
57.5°	2659.7	2698.4	2716.4	2743.6	2765.2	2808.2	2865.6	2902.9	2986.1	3067.9	3169.8
60°	3215.0	3190.6	3212.1	3169.8	3163.4	3166.9	3179.1	3207.8	3254.5	3330.5	3438.1
62.5°	4217.3	4182.2	4088.9	4055.2	3989.9	3901.6	3818.4	3806.9	3782.5	3839.9	3907.4
65°	4802.8	4930.5	4944.1	4980.0	4954.2	4885.3	4787.7	4756.2	4677.2	4622.0	4618.4
67.5°	4662.2	4853.7	4973.6	5124.9	5208.9	5290.7	5312.2	5340.2	5289.2	5264.1	5271.3
69°	4271.1	4413.2	4681.5	4784.9	4917.6	5026.6	5170.1	5195.3	5244.8	5251.9	5347.4
70°	3883.7	4092.5	4246.0	4401.0	4584.7	4704.5	4769.1	4875.3	4997.9	5058.2	5161.5
72.5°	2792.4	2860.6	2969.6	3170.5	3221.5	3345.6	3472.6	3563.0	3707.2	3809.1	4052.3
75°	1506.7	1547.6	1719.1	1833.2	1863.3	1904.2	1997.5	2019.7	2073.5	2106.5	2340.4
77.5°	688.1	750.5	772.7	835.1	800.0	817.2	839.4	834.4	849.5	921.2	1003.0
80°	317.1	329.3	337.9	363.8	365.2	359.5	361.6	358.0	355.2	366.6	375.2
82.5°	154.3	172.9	172.9	188.7	196.6	194.4	198.7	197.3	200.2	197.3	206.6
85°	90.4	90.4	97.6	106.2	104.8	107.6	107.6	113.4	114.1	115.5	115.5
87.5°	42.3	46.6	48.8	52.4	53.8	56.0	57.4	57.4	58.1	56.7	58.1
90°	19.8	19.8	26.9	26.9	28.4	30.5	27.7	29.1	34.1	27.7	32.7
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: P226326

CATALOG NUMBER: IST-AF-1000-LED-E1-T2-8030-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



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CATALOG NUMBER: IST-AF-1000-LED-E1-T2-8030-ULG

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3
2.5°	700.3	701.7	701.0	698.1	697.4	697.4	696.0	695.2	693.8	693.1	694.5
5°	713.2	713.2	711.0	708.1	705.3	704.6	703.8	700.3	698.8	697.4	696.0
7.5°	725.4	723.9	721.1	716.0	713.2	712.5	709.6	706.0	702.4	699.5	698.1
10°	738.3	736.8	731.1	727.5	721.8	721.1	716.0	711.7	708.1	704.6	701.7
12.5°	756.9	755.5	749.0	740.4	736.1	733.3	726.8	721.8	716.8	712.5	707.4
15°	785.6	779.9	775.6	767.0	760.5	754.8	746.9	739.7	732.5	725.4	721.1
17.5°	825.8	817.9	806.4	801.4	792.8	783.5	772.7	767.7	758.4	749.8	741.2
20°	878.2	870.3	852.4	845.9	833.7	820.1	811.5	800.7	792.8	779.2	769.9
22.5°	936.3	929.1	911.9	894.7	883.2	872.5	858.8	845.2	830.1	817.2	807.2
25°	1011.6	1000.9	985.8	968.6	951.4	936.3	917.7	898.3	885.4	867.4	853.1
27.5°	1114.2	1095.6	1070.5	1051.8	1038.2	1015.2	992.3	975.1	955.0	931.3	915.5
30°	1225.5	1204.6	1186.0	1164.5	1141.5	1119.3	1087.7	1062.6	1041.1	1015.9	990.1
32.5°	1348.9	1330.9	1304.4	1276.4	1251.3	1223.3	1200.3	1173.8	1136.5	1109.9	1082.7
35°	1473.0	1452.2	1424.9	1401.2	1372.5	1343.8	1318.0	1282.8	1249.1	1211.1	1173.1
37.5°	1592.8	1574.9	1544.7	1508.9	1483.7	1452.9	1426.3	1389.0	1348.9	1306.5	1277.8
40°	1726.2	1697.6	1676.7	1635.1	1609.3	1574.9	1536.8	1508.1	1469.4	1423.5	1382.6
42.5°	1879.1	1859.0	1836.7	1803.0	1775.8	1734.9	1686.8	1650.2	1614.3	1559.8	1503.1
45°	2072.8	2059.9	2023.3	1996.0	1959.4	1916.4	1874.8	1830.3	1773.6	1710.5	1658.8
47.5°	2305.3	2295.2	2262.2	2223.5	2175.4	2117.3	2078.5	2017.5	1969.5	1890.6	1828.8
50°	2516.2	2521.2	2503.3	2443.7	2400.7	2342.6	2281.6	2228.5	2154.6	2072.8	1993.9
52.5°	2768.0	2763.0	2717.8	2684.8	2633.9	2563.5	2496.8	2428.7	2347.6	2262.9	2164.6
55°	3009.1	3024.2	2992.6	2946.0	2884.3	2786.0	2718.5	2630.3	2544.9	2451.6	2338.3
57.5°	3243.0	3291.1	3266.7	3211.4	3148.3	3077.3	2988.3	2889.3	2801.0	2679.1	2551.3
60°	3534.3	3598.1	3608.2	3572.3	3503.4	3420.9	3304.0	3226.5	3105.2	2992.6	2894.3
62.5°	3982.7	4127.6	4119.0	4136.3	4087.5	4036.5	3899.5	3816.3	3658.4	3577.3	3440.3
65°	4731.8	4838.7	4967.1	4962.8	4929.1	4807.1	4665.0	4525.8	4421.8	4261.8	4119.0
67.5°	5360.3	5448.5	5524.6	5485.1	5407.6	5270.6	5104.1	4910.4	4751.8	4575.4	4388.1
69°	5419.1	5526.7	5571.2	5522.4	5383.2	5204.6	5041.7	4861.6	4643.5	4492.1	4264.0
70°	5261.3	5367.4	5457.1	5331.6	5203.9	5029.5	4851.6	4664.3	4469.2	4306.3	4076.0
72.5°	4179.3	4299.1	4286.9	4273.3	4171.4	3997.1	3833.5	3733.0	3596.0	3399.4	3233.0
75°	2430.1	2485.3	2388.5	2490.4	2368.4	2192.6	2215.6	2102.2	2001.8	1888.4	1800.9
77.5°	954.2	1003.0	952.1	935.6	881.1	868.9	777.7	788.5	743.3	654.3	613.4
80°	361.6	368.1	359.5	341.5	337.9	317.1	311.4	291.3	282.0	252.6	241.8
82.5°	194.4	198.0	192.3	186.5	182.2	170.0	162.1	147.1	138.5	129.1	128.4
85°	111.9	109.1	106.2	103.3	96.9	89.7	83.9	78.2	71.7	66.7	61.7
87.5°	58.8	59.6	60.3	57.4	53.1	47.4	43.8	41.6	36.6	34.4	32.3
90°	28.2	22.9	24.9	29.0	27.4	23.6	22.7	20.3	18.0	17.8	15.6
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



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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°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	110°	116.4
692.4	692.4	690.2	688.8	683.8	675.1	666.5	658.6	647.9	643.6	637.8	112.5°	147.0
694.5	693.1	690.9	688.1	678.0	657.9	637.1	614.9	591.9	571.1	546.7	115°	177.4
696.0	693.1	690.2	686.6	672.3	641.4	599.8	556.0	515.1	484.3	471.4	117.5°	208.4
696.7	694.5	690.9	685.9	665.8	619.9	553.2	490.0	454.2	442.0	439.8	120°	243.0
704.6	701.0	695.2	689.5	662.9	596.2	500.8	440.5	426.2	431.9	442.0	122.5°	276.4
714.6	710.3	703.1	697.4	661.5	565.4	449.9	412.5	417.6	433.4	449.9	125°	310.0
732.5	725.4	717.5	711.7	664.4	527.3	409.0	398.2	413.3	433.4	455.6	127.5°	345.8
759.1	749.0	739.7	729.7	668.7	480.0	384.6	388.9	406.8	428.3	452.7	130°	379.4
792.1	780.6	767.7	752.6	673.7	439.1	370.9	378.8	395.3	414.0	434.1	132.5°	414.4
836.6	820.8	804.3	785.6	680.9	394.6	358.7	367.3	377.4	388.2	398.2	135°	450.4
892.5	871.0	853.1	828.0	688.1	364.5	348.7	351.6	353.7	355.2	354.4	137.5°	481.4
967.2	934.2	913.3	882.5	696.0	348.7	337.2	333.6	330.0	325.0	319.3	140°	509.8
1046.1	1018.8	985.8	946.4	701.0	337.9	326.5	315.0	304.9	299.9	299.9	142.5°	534.8
1137.9	1104.2	1062.6	1013.1	694.5	326.5	312.1	297.0	291.3	297.8	295.6	145°	558.8
1229.8	1183.1	1137.2	1080.5	678.7	313.5	296.3	288.4	292.7	284.1	279.1	147.5°	583.8
1330.9	1279.3	1215.4	1149.4	655.8	299.9	288.4	292.7	277.7	267.6	271.9	150°	607.6
1444.3	1383.3	1314.4	1224.7	640.7	291.3	276.2	279.8	266.9	259.7	257.6	152.5°	625.0
1598.5	1511.7	1427.8	1322.3	652.2	277.7	252.6	266.9	259.7	253.3	247.5	155°	639.2
1749.9	1657.4	1558.4	1434.2	672.3	267.6	233.9	253.3	258.3	247.5	236.8	157.5°	652.0
1902.0	1803.7	1688.2	1549.8	696.7	261.2	219.5	236.8	254.7	241.8	233.2	160°	662.4
2062.0	1937.9	1819.5	1670.3	728.2	254.7	208.1	222.4	248.2	241.8	228.9	162.5°	670.4
2229.9	2083.6	1965.2	1803.7	783.5	245.4	193.7	210.9	241.8	241.1	224.6	165°	679.6
2425.1	2294.5	2142.4	1978.1	860.3	234.6	180.8	202.3	236.0	238.2	219.5	167.5°	690.4
2757.3	2622.4	2438.7	2282.3	1012.4	220.3	172.9	193.7	226.7	232.5	215.2	170°	698.0
3296.1	3112.4	2943.8	2797.4	1272.8	200.2	167.2	184.4	216.7	225.3	211.7	172.5°	698.0
3913.8	3734.5	3530.7	3284.6	1417.7	181.5	159.3	172.9	206.6	218.1	208.1	175°	696.0
4176.4	3941.8	3694.3	3402.3	1279.3	166.5	150.7	162.1	195.2	208.1	203.0	177.5°	699.6
4055.9	3818.4	3530.7	3244.4	1112.8	158.6	145.6	156.4	186.5	201.6	198.0	180°	700.0
3846.4	3607.5	3350.6	3006.9	993.7	154.3	142.1	152.8	183.0	198.0	195.2		
3042.1	2829.0	2592.2	2330.4	677.3	139.9	130.6	142.1	168.6	185.1	184.4		
1612.2	1549.8	1374.7	1221.1	350.8	124.8	118.4	129.9	155.7	172.9	172.9		
580.4	526.6	503.7	418.3	186.5	109.1	106.2	114.8	141.3	157.8	157.1		
219.5	213.8	191.6	179.4	118.4	89.0	89.7	98.3	124.1	139.9	139.2		
124.1	112.6	109.1	105.5	75.3	70.3	73.9	82.5	106.2	119.8	122.0		
59.6	55.2	53.8	50.2	49.5	53.8	58.1	65.3	84.7	101.2	99.0		
28.7	27.3	26.5	25.8	35.2	34.4	42.3	45.2	56.7	80.4	72.5		
16.3	16.3	15.6	14.2	17.0	20.5	22.6	26.4	30.7	54.6	46.0		
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		

'226326
 IST-AF-1000-LED-E1-T2-8030-ULG

REPORT NUMBER: P226326
 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°	687.3	687.3
147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	121.0	2.5°	632.8	622.8
177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	159.0	5°	528.8	527.3
208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	197.0	7.5°	463.5	454.2
243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	233.0	10°	442.0	441.2
276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	267.0	12.5°	451.3	453.4
310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	299.0	15°	463.5	467.8
346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	333.0	17.5°	471.4	479.3
379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	366.0	20°	469.2	478.6
414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	401.0	22.5°	445.6	449.9
450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	432.0	25°	403.2	404.7
481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	460.0	27.5°	352.3	350.8
510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	489.0	30°	316.4	307.1
535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	518.0	32.5°	299.9	294.2
559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	547.0	35°	288.4	279.1
584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	574.0	37.5°	299.2	298.5
608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	593.0	40°	309.2	307.8
626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	609.0	42.5°	292.0	279.1
639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	627.0	45°	260.4	245.4
653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	644.0	47.5°	238.9	230.3
663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	656.0	50°	228.9	226.0
671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	665.0	52.5°	226.0	233.2
680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	676.0	55°	224.6	232.5
691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	686.0	57.5°	214.5	228.2
699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	692.0	60°	207.4	223.9
699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	693.0	62.5°	203.0	221.7
697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	695.0	65°	199.5	223.1
700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	699.0	67.5°	193.7	227.4
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	69°	190.8	226.7
										70°	188.0	224.6
										72.5°	177.9	207.4
										75°	165.7	183.0
										77.5°	150.0	157.1
										80°	132.7	137.0
										82.5°	115.5	132.0
										85°	90.4	111.9
										87.5°	66.7	61.7
										90°	45.0	33.0
										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: P226326

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

00-LED-E1-T2-8030-ULG

tinued):

180°
687.3
624.9
523.0
454.9
443.4
452.0
469.2
482.1
480.7
453.4
406.1
356.6
314.3
300.6
283.4
302.1
310.7
282.0
245.4
228.9
224.6
235.3
231.7
228.9
224.6
221.0
220.3
221.7
218.8
215.2
193.7
174.3
157.1
138.5
116.9
87.5
66.7
28.7
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

