

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: P226325

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226325
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-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, 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: 7971.8 lumens
Efficiency: N/A
Efficacy: 111.8 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 - G2

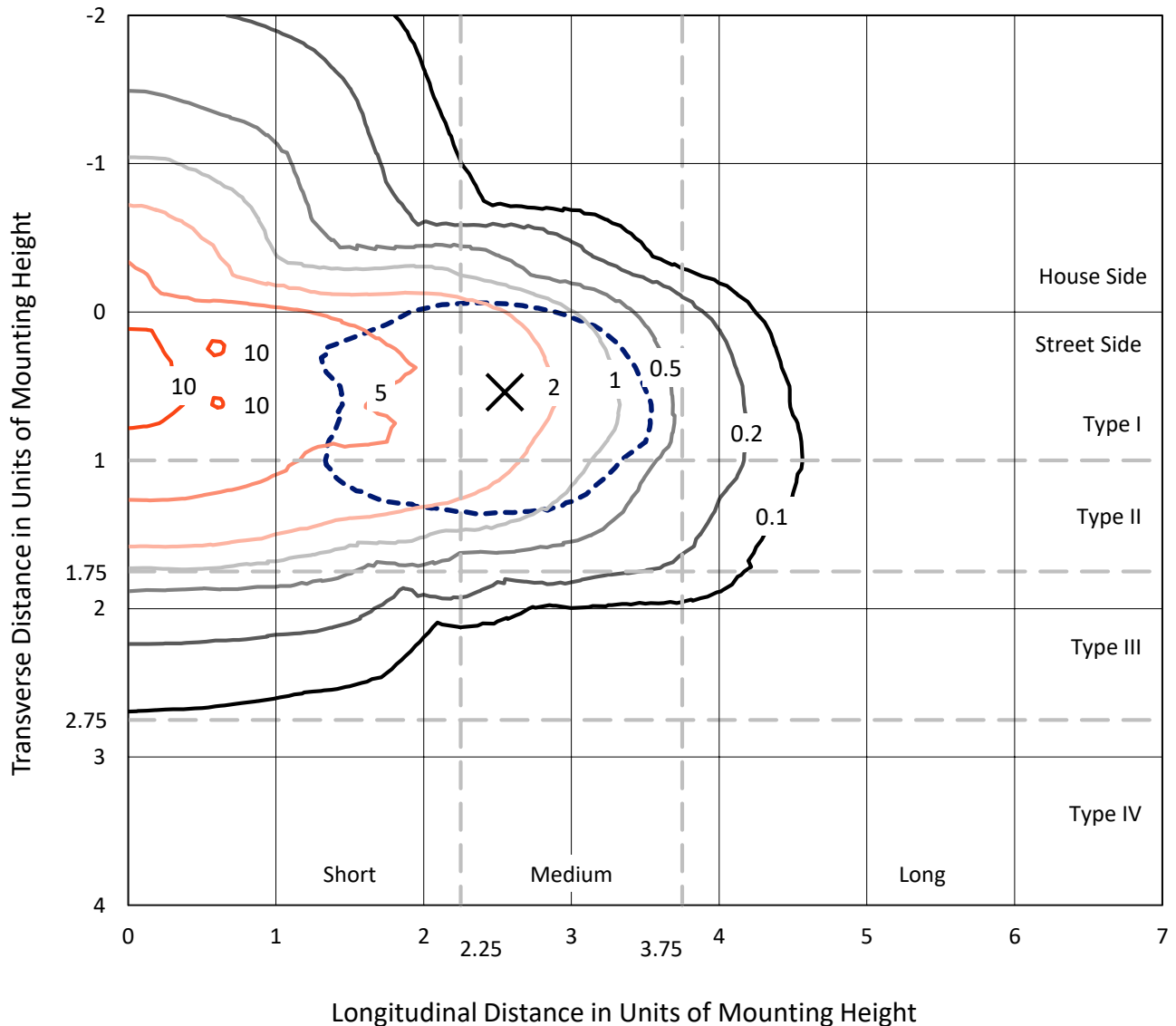
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

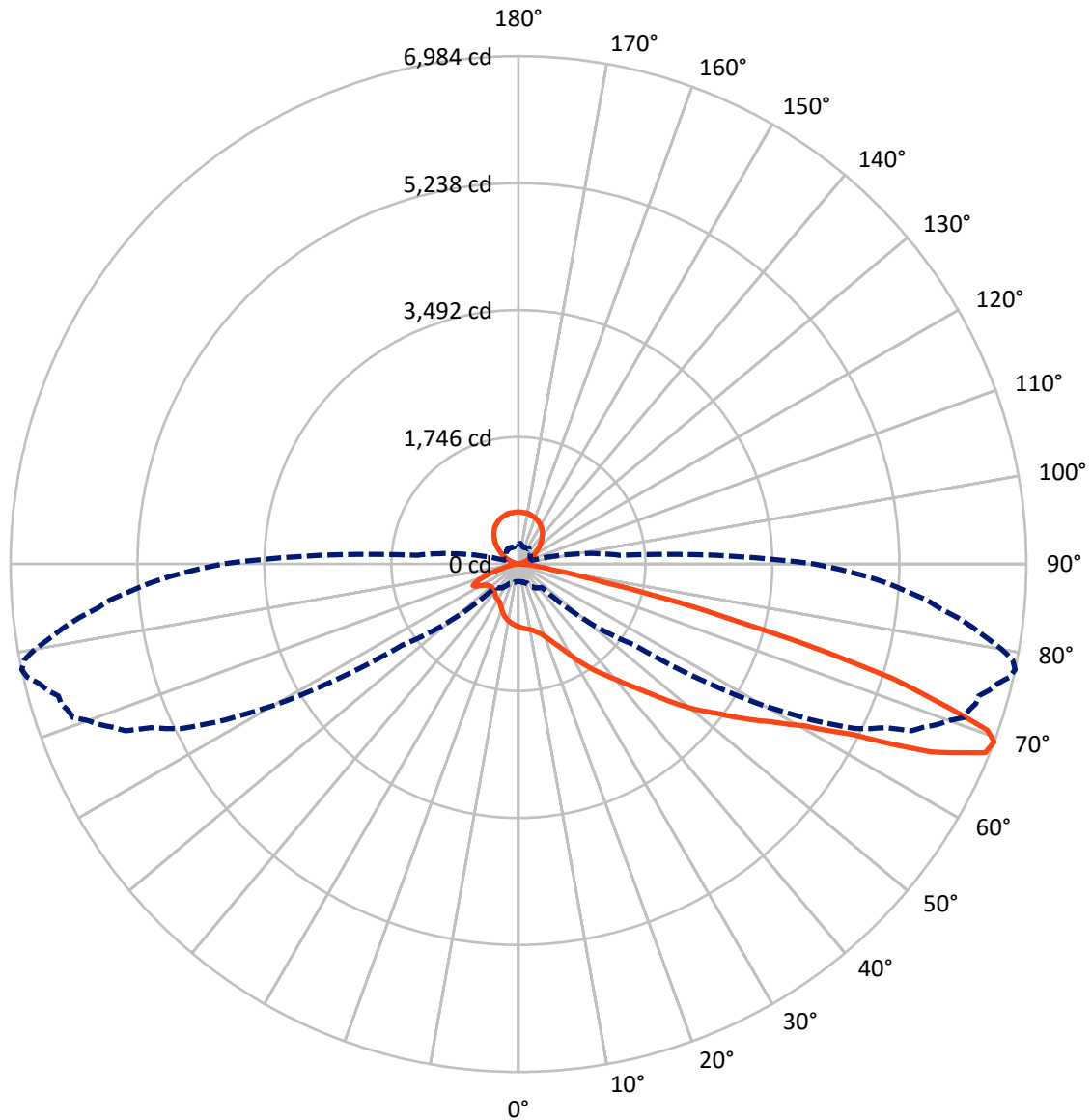
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 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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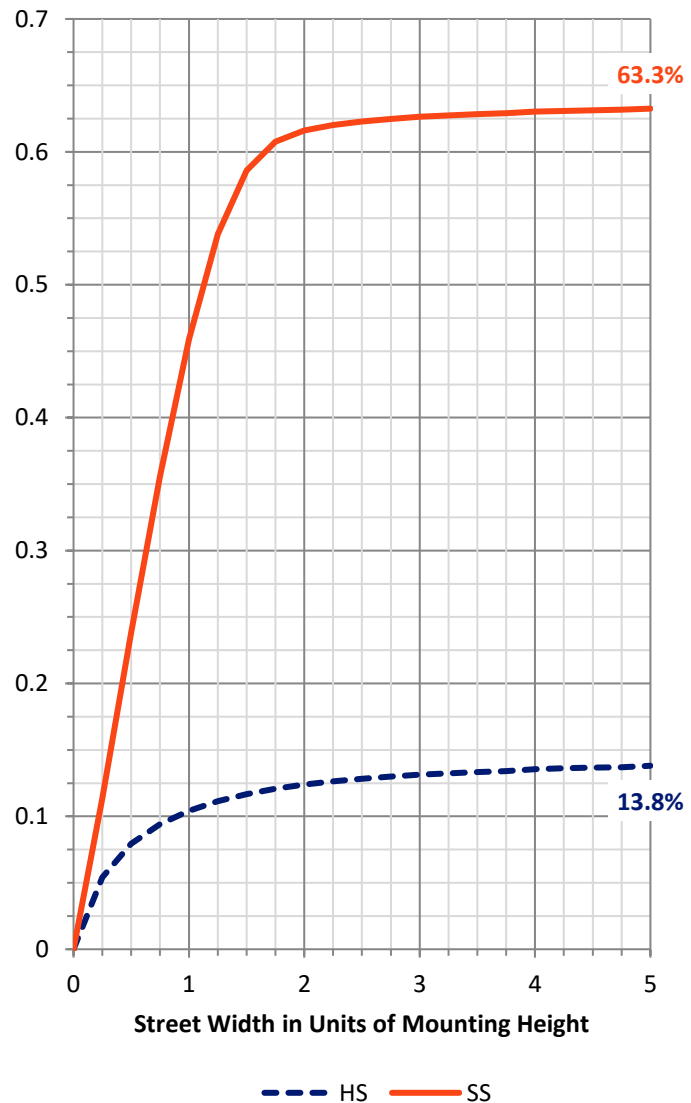
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1133.3	889.6	2023.0
	% Fixture	14.2	11.2	25.4
Street Side	Lumens	5060.4	888.5	5948.9
	% Fixture	63.5	11.1	74.6
Total	Lumens	6193.7	1778.1	7971.8
	% Fixture	77.7	22.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.0
10°-20°	241.6	3.0
20°-30°	433.1	5.4
30°-40°	707.0	8.9
40°-50°	1045.7	13.1
50°-60°	1365.5	17.1
60°-70°	1527.1	19.2
70°-80°	685.6	8.6
80°-90°	108.0	1.4
90°-100°	12.7	0.2
100°-110°	58.7	0.7
110°-120°	169.9	2.1
120°-130°	279.4	3.5
130°-140°	344.6	4.3
140°-150°	352.5	4.4
150°-160°	297.0	3.7
160°-170°	195.5	2.5
170°-180°	67.8	0.9
0°-90°	6193.7	77.7
0°-180°	7971.8	100.0



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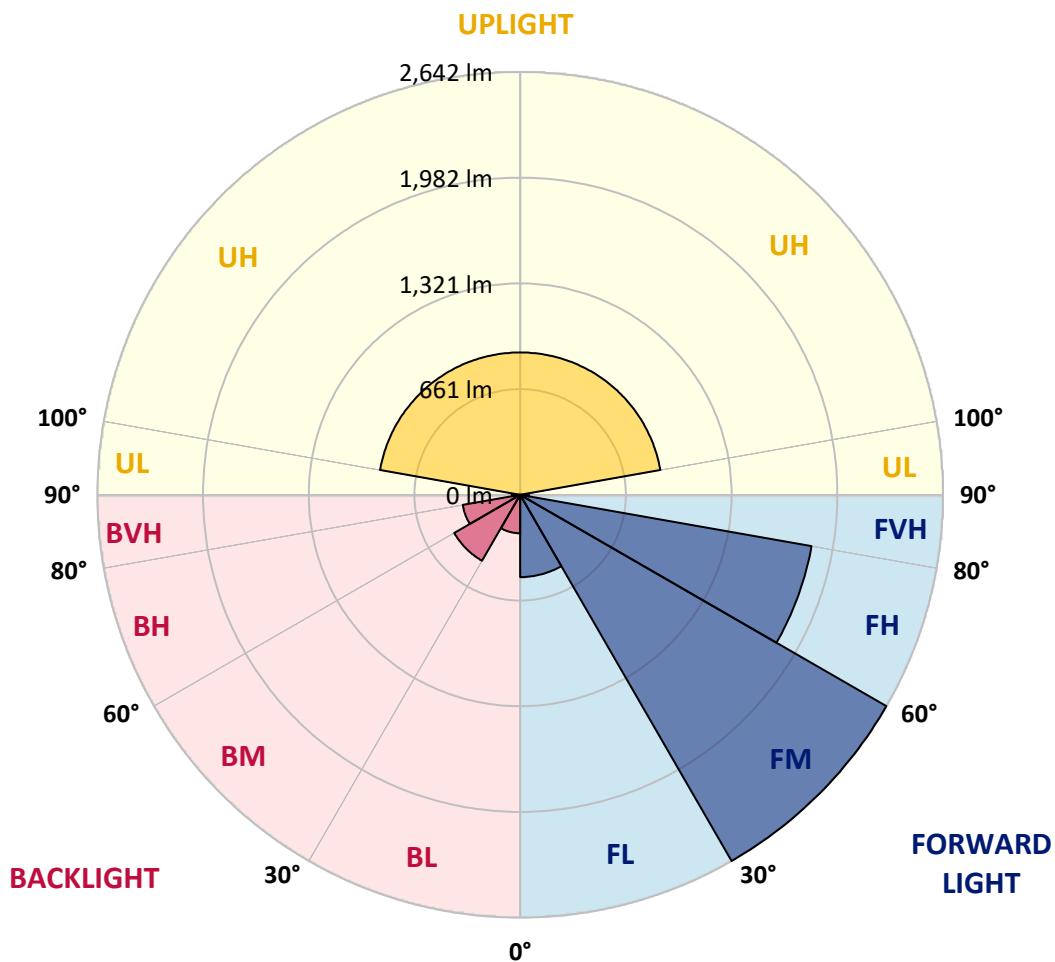
CATALOG NUMBER: IST-AF-1000-LED-E1-T2-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	514.3	6.5			
FM (30°-60°)	2642.3	33.1			
FH (60°-80°)	1848.7	23.2			G2/5000
FVH (80°-90°)	55.1	0.7			G1/100
BL (0°-30°)	240.4	3.0	B1/500		
BM (30°-60°)	476.0	6.0	B1/1000		
BH (60°-80°)	364.1	4.6	B1/500		G1/500
BVH (80°-90°)	52.9	0.7			G1/100
UL (90°-100°)	12.7	0.2		U2/50	
UH (100°-180°)	889.6	11.2		U4/1000	

BUG Rating: B1-U5-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6
2.5°	922.8	922.8	920.1	918.3	915.6	908.5	897.6	895.8	895.0	893.1	891.3
5°	990.3	983.1	984.9	980.4	970.5	957.9	938.1	928.2	922.8	921.9	918.3
7.5°	1045.1	1046.1	1043.3	1034.4	1020.9	1005.6	978.6	963.3	958.8	956.2	949.8
10°	1084.7	1082.1	1080.2	1078.4	1067.7	1055.1	1020.9	1002.0	998.4	991.1	984.0
12.5°	1113.5	1113.5	1113.5	1111.7	1105.4	1095.5	1068.6	1049.6	1045.1	1035.2	1029.0
15°	1145.0	1141.4	1137.8	1135.1	1136.0	1136.0	1116.2	1101.8	1094.7	1089.2	1076.7
17.5°	1212.4	1204.3	1196.2	1185.5	1168.4	1163.9	1163.0	1162.1	1152.1	1151.3	1138.6
20°	1270.0	1262.8	1255.6	1244.8	1220.6	1194.5	1207.9	1220.6	1218.7	1219.7	1213.3
22.5°	1341.1	1335.7	1321.2	1308.7	1277.3	1245.7	1247.5	1274.5	1278.1	1281.7	1283.5
25°	1438.2	1435.5	1412.1	1387.8	1351.8	1322.2	1294.3	1327.6	1334.7	1342.8	1359.1
27.5°	1536.3	1529.9	1504.8	1483.2	1438.2	1406.8	1368.1	1386.0	1396.8	1412.1	1437.3
30°	1663.1	1645.9	1637.0	1588.4	1547.0	1501.2	1467.9	1473.3	1471.5	1489.5	1528.2
32.5°	1846.5	1819.5	1774.6	1726.0	1677.4	1616.3	1588.4	1587.5	1583.0	1603.7	1625.3
35°	1945.4	1939.2	1911.3	1862.7	1809.7	1752.1	1734.1	1717.0	1719.7	1730.5	1738.6
37.5°	2052.6	2047.1	2025.5	1998.5	1958.1	1989.5	1889.7	1864.5	1852.9	1847.4	1850.1
40°	2099.3	2103.8	2115.5	2120.0	2096.6	2247.7	2050.7	1968.0	1964.4	1956.3	1948.2
42.5°	2109.2	2120.9	2144.3	2195.6	2218.1	2547.2	2183.8	2084.0	2069.6	2063.3	2064.2
45°	2145.1	2163.1	2167.6	2214.4	2320.6	2562.5	2334.1	2186.6	2175.7	2174.9	2169.5
47.5°	2232.4	2256.7	2256.7	2277.4	2378.2	2592.2	2385.3	2289.1	2281.9	2278.3	2292.6
50°	2245.0	2277.4	2342.1	2408.7	2481.6	2616.5	2443.8	2400.6	2403.3	2411.4	2453.6
52.5°	2031.9	2064.2	2235.1	2431.1	2668.7	2683.0	2531.9	2549.0	2567.0	2606.6	2683.9
55°	1742.2	1765.6	1968.0	2281.9	2675.8	2935.8	2753.2	2800.8	2838.6	2850.4	2971.8
57.5°	1371.7	1404.0	1610.0	2017.5	2498.7	3007.7	3262.3	3283.9	3241.6	3280.3	3324.3
60°	743.0	739.4	1026.2	1458.9	2126.3	2874.6	3753.4	4123.9	4132.9	4192.3	4121.3
62.5°	415.5	415.5	498.3	749.2	1368.1	2432.1	3989.0	4850.7	4963.2	5057.6	5265.3
65°	313.9	316.6	346.3	451.5	768.1	1535.3	3816.3	5098.9	5314.8	5531.6	5895.9
67.5°	260.9	260.9	282.4	336.3	480.3	697.0	2809.8	4600.6	4870.5	5129.5	5633.2
69°	241.9	242.8	259.0	295.9	402.0	453.3	1940.9	3900.9	4209.3	4568.3	5161.9
70°	232.9	230.3	245.5	276.1	364.3	357.9	1422.0	3391.8	3631.1	3953.1	4635.7
72.5°	206.8	204.2	212.3	235.7	286.9	255.4	580.1	1824.9	2185.6	2546.3	3090.4
75°	184.3	181.7	188.0	198.8	223.1	195.2	291.4	764.6	925.6	1196.2	1650.4
77.5°	162.8	157.4	162.8	170.0	175.4	145.7	197.8	353.4	433.5	532.4	752.0
80°	147.5	142.1	148.4	144.8	137.6	112.4	131.3	206.0	228.4	273.4	357.9
82.5°	105.3	104.3	141.2	145.7	109.8	81.8	93.5	132.3	147.5	155.6	188.8
85°	64.8	62.1	81.8	104.3	111.5	51.2	60.3	78.3	81.8	89.0	105.3
87.5°	33.2	34.2	44.1	54.0	72.8	30.6	36.0	45.8	45.8	45.8	52.2
90°	13.2	15.0	20.7	27.1	23.4	15.2	20.7	19.0	21.0	19.4	21.6
92.5°	4.1	4.1	5.1	6.1	6.1	6.1	7.2	7.2	7.2	7.2	7.2
95°	5.1	5.1	6.1	7.2	7.2	7.2	7.2	7.7	7.8	7.9	8.1
97.5°	7.2	7.2	8.2	8.2	9.2	9.2	12.3	11.3	11.0	10.8	10.4
100°	8.2	8.2	9.2	10.2	12.3	21.5	29.7	28.1	27.8	27.5	26.9
102.5°	11.3	11.3	13.3	18.4	27.6	40.9	51.1	49.6	49.3	49.0	48.4
105°	21.5	22.5	27.6	36.8	49.1	64.4	73.7	72.6	72.4	72.2	71.8
107.5°	41.9	43.0	50.1	59.3	74.7	90.0	97.2	96.7	96.6	96.5	96.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
110°	67.5	69.6	75.7	89.0	104.3	116.6	122.8	123.3	123.4	123.5	123.7
112.5°	101.3	101.3	108.4	123.8	137.1	146.3	151.4	152.4	152.6	152.8	153.2
115°	143.2	142.2	150.4	162.6	171.9	178.0	183.1	184.6	184.9	185.3	185.9
117.5°	188.2	188.2	193.3	201.5	206.6	209.7	215.8	217.9	218.3	218.7	219.5
120°	230.2	228.1	231.2	238.3	242.4	248.6	251.6	253.7	254.1	254.5	255.3
122.5°	269.0	266.0	267.0	273.1	277.2	283.4	285.4	287.4	287.9	288.3	289.1
125°	304.8	300.7	302.8	305.9	312.0	317.1	320.2	321.2	321.4	321.6	322.0
127.5°	337.6	336.6	336.6	340.6	346.8	347.8	352.9	353.4	353.5	353.6	353.8
130°	371.3	369.3	370.3	374.4	378.5	380.5	385.7	387.7	388.1	388.5	389.3
132.5°	405.1	403.0	402.0	410.2	413.3	414.3	420.4	423.0	423.5	424.0	425.0
135°	438.8	435.8	435.8	441.9	445.0	447.0	453.2	455.7	456.2	456.7	457.8
137.5°	470.6	467.5	469.5	470.6	474.6	478.7	483.9	484.9	485.1	485.3	485.7
140°	499.2	496.1	498.2	500.2	502.3	508.4	511.5	512.5	512.7	512.9	513.3
142.5°	529.9	526.8	528.9	529.9	533.0	537.0	539.1	542.2	542.8	543.4	544.6
145°	562.6	558.5	556.5	559.6	562.6	563.6	568.8	571.8	572.4	573.1	574.3
147.5°	588.2	585.1	584.1	587.2	587.2	588.2	593.3	595.9	596.4	596.9	597.9
150°	608.7	605.6	606.6	606.6	606.6	606.6	610.7	612.2	612.5	612.8	613.5
152.5°	625.0	622.0	622.0	623.0	624.0	624.0	625.0	626.6	626.9	627.2	627.8
155°	643.4	639.3	639.3	641.4	644.5	642.4	640.4	642.9	643.4	643.9	645.0
157.5°	660.8	657.8	657.8	658.8	660.8	659.8	658.8	660.8	661.2	661.6	662.5
160°	678.2	675.1	674.1	671.1	670.0	670.0	673.1	676.2	676.8	677.4	678.6
162.5°	688.4	684.4	684.4	680.3	676.2	678.2	682.3	684.4	684.8	685.2	686.0
165°	696.6	693.6	691.5	691.5	688.4	688.4	687.4	690.0	690.5	691.0	692.0
167.5°	705.8	702.8	699.7	701.7	703.8	700.7	693.6	696.6	697.2	697.9	699.1
170°	714.0	711.0	707.9	707.9	708.9	706.9	701.7	703.3	703.6	703.9	704.5
172.5°	715.0	713.0	711.0	708.9	705.8	705.8	704.8	706.3	706.7	707.0	707.6
175°	716.1	714.0	713.0	711.0	706.9	705.8	705.8	708.4	708.9	709.4	710.4
177.5°	723.2	721.2	716.1	715.0	713.0	711.0	709.9	712.5	713.0	713.5	714.5
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6
2.5°	892.2	889.6	886.0	886.9	885.1	882.4	883.2	882.4	883.2	881.5	879.6
5°	918.3	916.6	911.1	910.2	908.5	906.6	904.0	901.2	900.3	898.6	895.0
7.5°	948.0	942.6	939.9	936.3	931.8	924.6	923.7	920.1	917.4	915.6	911.1
10°	978.6	972.3	968.7	964.2	959.7	955.2	950.7	944.4	938.1	936.3	930.9
12.5°	1024.5	1016.4	1009.1	1002.0	997.5	989.4	983.1	975.0	968.7	966.0	957.0
15°	1074.8	1064.1	1056.8	1051.5	1044.2	1037.1	1029.0	1021.7	1011.9	1003.8	995.6
17.5°	1134.1	1124.3	1118.9	1109.0	1100.0	1091.9	1085.7	1076.7	1068.6	1054.2	1047.0
20°	1212.4	1204.3	1198.1	1187.2	1177.4	1169.2	1163.9	1145.0	1134.1	1121.6	1109.9
22.5°	1285.3	1286.2	1279.9	1272.8	1266.4	1255.6	1246.7	1233.2	1219.7	1204.3	1188.2
25°	1364.4	1371.7	1372.6	1370.8	1367.2	1354.6	1350.1	1336.6	1325.7	1300.6	1293.4
27.5°	1452.6	1460.7	1470.6	1483.2	1485.8	1472.4	1478.7	1465.2	1446.4	1435.5	1412.1
30°	1538.0	1560.5	1581.2	1595.6	1604.6	1610.9	1606.4	1601.9	1589.4	1571.4	1550.6
32.5°	1647.8	1671.2	1691.9	1723.4	1739.5	1759.3	1755.7	1757.5	1753.0	1735.0	1710.8
35°	1758.5	1779.1	1806.1	1826.8	1866.4	1888.0	1906.0	1905.0	1905.0	1894.2	1870.9
37.5°	1856.5	1868.1	1890.6	1924.8	1950.9	1985.0	2013.9	2025.5	2044.5	2045.3	2020.1
40°	1959.0	1970.7	1987.8	2013.0	2041.7	2082.2	2120.9	2158.6	2176.6	2195.6	2185.6
42.5°	2069.6	2082.2	2094.8	2111.0	2152.4	2183.8	2236.0	2287.3	2324.1	2362.8	2358.3
45°	2179.3	2193.7	2211.7	2236.0	2272.9	2324.1	2374.5	2432.1	2516.7	2562.5	2594.0
47.5°	2303.5	2326.8	2360.2	2398.8	2428.5	2481.6	2545.4	2634.5	2719.9	2799.1	2848.5
50°	2490.6	2499.6	2553.5	2591.3	2647.9	2701.9	2765.8	2844.0	2954.7	3035.6	3114.8
52.5°	2710.9	2745.1	2799.1	2842.3	2887.2	2941.2	3006.9	3077.0	3186.7	3277.5	3380.1
55°	2995.1	3043.7	3090.4	3113.9	3176.8	3225.4	3278.5	3347.7	3465.6	3564.5	3685.0
57.5°	3334.2	3382.8	3405.3	3439.5	3466.5	3520.4	3592.4	3639.1	3743.5	3846.0	3973.8
60°	4030.4	3999.8	4026.8	3973.8	3965.7	3970.2	3985.4	4021.4	4079.8	4175.2	4310.1
62.5°	5286.9	5242.8	5125.9	5083.7	5001.8	4891.1	4786.8	4772.5	4741.9	4813.8	4898.4
65°	6020.9	6181.0	6198.1	6243.1	6210.6	6124.3	6002.0	5962.4	5863.5	5794.2	5789.7
67.5°	5844.5	6084.7	6234.9	6424.7	6529.9	6632.5	6659.4	6694.5	6630.7	6599.2	6608.2
69°	5354.3	5532.4	5868.9	5998.4	6164.8	6301.5	6481.4	6512.8	6574.9	6583.9	6703.5
70°	4868.6	5130.4	5322.9	5517.2	5747.4	5897.6	5978.5	6111.7	6265.5	6341.1	6470.6
72.5°	3500.6	3586.1	3722.8	3974.7	4038.5	4194.1	4353.3	4466.6	4647.4	4775.1	5080.1
75°	1888.8	1940.1	2155.1	2298.1	2335.8	2387.2	2504.1	2531.9	2599.4	2640.7	2933.9
77.5°	862.6	940.8	968.7	1047.0	1002.9	1024.5	1052.3	1046.1	1064.9	1154.9	1257.4
80°	397.5	412.9	423.6	456.0	457.8	450.6	453.3	448.9	445.2	459.6	470.5
82.5°	193.3	216.8	216.8	236.5	246.4	243.8	249.2	247.3	250.9	247.3	259.0
85°	113.3	113.3	122.3	133.1	131.3	134.9	134.9	142.1	143.0	144.8	144.8
87.5°	53.1	58.5	61.2	65.7	67.4	70.2	71.9	71.9	72.8	71.1	72.8
90°	22.7	22.7	31.7	31.7	33.5	36.2	32.6	34.4	40.7	32.6	38.9
92.5°	7.2	7.1	7.0	6.9	6.8	6.6	6.5	6.4	6.3	6.2	6.1
95°	8.2	8.1	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2
97.5°	10.2	10.1	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2
100°	26.6	26.3	26.0	25.7	25.4	25.1	24.8	24.4	24.1	23.8	23.5
102.5°	48.1	47.6	47.1	46.5	46.0	45.5	45.0	44.5	44.0	43.5	43.0
105°	71.6	71.1	70.6	70.1	69.6	69.0	68.5	68.0	67.5	67.0	66.5
107.5°	96.2	95.7	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1



REPORT NUMBER: P226325

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

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
110°	123.8	123.6	123.4	123.2	123.0	122.8	122.5	122.3	122.1	121.9	121.7
112.5°	153.4	153.3	153.2	153.1	153.0	152.9	152.8	152.7	152.6	152.5	152.4
115°	186.2	185.9	185.6	185.3	184.9	184.6	184.3	184.0	183.7	183.4	183.1
117.5°	219.9	219.4	218.9	218.4	217.9	217.4	216.9	216.4	215.8	215.3	214.8
120°	255.7	255.2	254.7	254.2	253.7	253.2	252.7	252.2	251.6	251.1	250.6
122.5°	289.5	289.0	288.5	288.0	287.4	286.9	286.4	285.9	285.4	284.9	284.4
125°	322.2	321.7	321.2	320.7	320.2	319.7	319.2	318.6	318.1	317.6	317.1
127.5°	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9
130°	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7
132.5°	425.5	425.3	425.1	424.9	424.7	424.5	424.3	424.1	423.9	423.7	423.5
135°	458.3	458.2	458.1	458.0	457.9	457.8	457.7	457.6	457.5	457.4	457.3
137.5°	485.9	486.0	486.1	486.2	486.3	486.4	486.5	486.6	486.7	486.8	486.9
140°	513.5	513.7	513.9	514.1	514.3	514.5	514.7	515.0	515.2	515.4	515.6
142.5°	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2
145°	574.9	574.8	574.7	574.6	574.5	574.4	574.3	574.2	574.1	574.0	573.9
147.5°	598.4	598.5	598.6	598.7	598.8	598.9	599.0	599.1	599.2	599.3	599.4
150°	613.8	614.1	614.4	614.7	615.0	615.3	615.6	615.9	616.2	616.5	616.8
152.5°	628.1	628.5	628.9	629.3	629.7	630.1	630.5	631.0	631.4	631.8	632.2
155°	645.5	646.0	646.5	647.0	647.5	648.0	648.6	649.1	649.6	650.1	650.6
157.5°	662.9	663.1	663.3	663.5	663.7	663.9	664.1	664.3	664.5	664.7	664.9
160°	679.2	678.9	678.6	678.3	678.0	677.7	677.4	677.1	676.8	676.5	676.2
162.5°	686.4	686.3	686.2	686.1	686.0	685.9	685.8	685.7	685.6	685.5	685.4
165°	692.5	692.8	693.2	693.5	693.8	694.1	694.4	694.7	695.0	695.3	695.6
167.5°	699.7	700.1	700.5	700.9	701.3	701.7	702.2	702.6	703.0	703.4	703.8
170°	704.8	705.3	705.8	706.3	706.9	707.4	707.9	708.4	708.9	709.4	709.9
172.5°	707.9	708.1	708.3	708.5	708.7	708.9	709.1	709.3	709.5	709.7	709.9
175°	711.0	711.1	711.2	711.3	711.4	711.5	711.6	711.7	711.8	711.9	712.0
177.5°	715.0	715.2	715.5	715.7	715.9	716.1	716.3	716.5	716.7	716.9	717.1
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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CATALOG NUMBER: IST-AF-1000-LED-E1-T2-ULG

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6
2.5°	877.9	879.6	878.7	875.1	874.2	874.2	872.5	871.6	869.7	868.9	870.6
5°	894.1	894.1	891.3	887.7	884.1	883.2	882.4	877.9	876.1	874.2	872.5
7.5°	909.3	907.6	904.0	897.6	894.1	893.1	889.6	885.1	880.6	877.0	875.1
10°	925.6	923.7	916.6	912.1	904.8	904.0	897.6	892.2	887.7	883.2	879.6
12.5°	948.9	947.2	939.0	928.2	922.8	919.2	911.1	904.8	898.6	893.1	886.9
15°	984.9	977.7	972.3	961.5	953.4	946.2	936.3	927.3	918.3	909.3	904.0
17.5°	1035.2	1025.4	1011.0	1004.6	993.9	982.2	968.7	962.4	950.7	939.9	929.1
20°	1100.9	1091.0	1068.6	1060.4	1045.1	1028.1	1017.2	1003.8	993.9	976.8	965.1
22.5°	1173.7	1164.7	1143.1	1121.6	1107.2	1093.7	1076.7	1059.6	1040.6	1024.5	1011.9
25°	1268.3	1254.8	1235.8	1214.2	1192.7	1173.7	1150.4	1126.1	1109.9	1087.4	1069.4
27.5°	1396.8	1373.4	1342.0	1318.6	1301.5	1272.8	1243.9	1222.3	1197.2	1167.5	1147.6
30°	1536.3	1510.2	1486.8	1459.8	1431.0	1403.1	1363.6	1332.1	1305.1	1273.6	1241.2
32.5°	1690.9	1668.4	1635.2	1600.1	1568.6	1533.5	1504.8	1471.5	1424.7	1391.4	1357.3
35°	1846.5	1820.4	1786.3	1756.6	1720.6	1684.7	1652.3	1608.2	1565.9	1518.3	1470.6
37.5°	1996.8	1974.3	1936.4	1891.5	1860.0	1821.4	1788.1	1741.3	1690.9	1637.8	1601.9
40°	2164.1	2128.0	2102.0	2049.8	2017.5	1974.3	1926.6	1890.6	1842.0	1784.5	1733.2
42.5°	2355.7	2330.5	2302.6	2260.3	2226.1	2174.9	2114.5	2068.7	2023.7	1955.4	1884.4
45°	2598.5	2582.3	2536.4	2502.2	2456.4	2402.4	2350.2	2294.5	2223.4	2144.3	2079.6
47.5°	2889.9	2877.4	2835.9	2787.3	2727.1	2654.3	2605.7	2529.2	2469.0	2370.1	2292.6
50°	3154.4	3160.6	3138.1	3063.5	3009.5	2936.7	2860.2	2793.7	2701.0	2598.5	2499.6
52.5°	3470.1	3463.7	3407.0	3365.7	3301.9	3213.7	3130.0	3044.6	2942.9	2836.8	2713.6
55°	3772.2	3791.2	3751.6	3693.1	3615.7	3492.6	3408.0	3297.4	3190.3	3073.4	2931.3
57.5°	4065.5	4125.8	4095.2	4025.9	3946.7	3857.8	3746.1	3622.1	3511.4	3358.6	3198.5
60°	4430.6	4510.7	4523.3	4478.3	4391.9	4288.5	4141.9	4044.7	3892.7	3751.6	3628.3
62.5°	4992.8	5174.5	5163.7	5185.2	5124.1	5060.2	4888.5	4784.1	4586.3	4484.6	4312.9
65°	5931.8	6065.8	6226.8	6221.4	6179.1	6026.2	5848.2	5673.7	5543.3	5342.7	5163.7
67.5°	6719.8	6830.3	6925.7	6876.3	6779.1	6607.3	6398.7	6155.8	5956.9	5735.7	5501.0
69°	6793.5	6928.3	6984.2	6923.0	6748.5	6524.6	6320.4	6094.6	5821.2	5631.4	5345.3
70°	6595.6	6728.8	6841.2	6683.8	6523.7	6305.1	6082.1	5847.3	5602.6	5398.4	5109.7
72.5°	5239.2	5389.4	5374.2	5357.1	5229.3	5010.8	4805.7	4679.8	4508.0	4261.5	4052.9
75°	3046.4	3115.7	2994.3	3121.9	2969.0	2748.7	2777.5	2635.3	2509.4	2367.3	2257.6
77.5°	1196.2	1257.4	1193.6	1172.9	1104.5	1089.2	975.0	988.5	931.8	820.3	769.1
80°	453.3	461.5	450.6	428.1	423.6	397.5	390.4	365.2	353.4	316.6	303.1
82.5°	243.8	248.3	241.0	233.8	228.4	213.2	203.3	184.3	173.6	161.9	161.0
85°	140.3	136.7	133.1	129.5	121.4	112.4	105.3	98.0	89.9	83.7	77.3
87.5°	73.8	74.7	75.6	71.9	66.6	59.3	54.8	52.2	45.8	43.2	40.5
90°	33.2	26.8	29.3	34.5	32.4	27.7	26.7	23.7	20.9	20.7	18.0
92.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.2
100°	23.1	22.7	22.3	21.9	21.5	21.1	20.7	20.3	19.8	19.4	19.4
102.5°	42.7	42.4	42.0	41.7	41.4	41.1	40.8	40.5	40.2	39.9	39.7
105°	66.1	65.7	65.3	64.9	64.4	64.0	63.6	63.2	62.8	62.4	62.4
107.5°	91.8	91.5	91.1	90.8	90.5	90.2	89.9	89.6	89.3	89.0	88.8



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

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
110°	121.4	121.1	120.8	120.5	120.2	119.9	119.6	119.3	119.0	118.7	118.9	0°
112.5°	152.2	152.0	151.8	151.6	151.4	151.2	151.0	150.8	150.6	150.4	150.4	2.5°
115°	182.9	182.7	182.5	182.3	182.1	181.9	181.7	181.5	181.3	181.1	181.3	5°
117.5°	214.6	214.4	214.2	214.0	213.8	213.6	213.4	213.2	213.0	212.8	213.0	7.5°
120°	250.4	250.2	250.0	249.8	249.6	249.4	249.2	249.0	248.8	248.6	248.6	10°
122.5°	284.2	284.0	283.8	283.6	283.4	283.2	282.9	282.7	282.5	282.3	282.5	12.5°
125°	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	15°
127.5°	353.8	353.7	353.6	353.5	353.4	353.3	353.2	353.1	353.0	352.9	353.3	17.5°
130°	389.5	389.3	389.1	388.9	388.7	388.5	388.3	388.1	387.9	387.7	387.9	20°
132.5°	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.7	22.5°
135°	457.6	457.9	458.2	458.5	458.8	459.1	459.4	459.7	460.0	460.3	460.5	25°
137.5°	487.4	487.9	488.5	489.0	489.5	490.0	490.5	491.0	491.5	492.0	492.2	27.5°
140°	516.1	516.6	517.1	517.6	518.1	518.6	519.1	519.7	520.2	520.7	521.1	30°
142.5°	545.3	545.4	545.5	545.6	545.7	545.8	545.9	546.1	546.2	546.3	546.7	32.5°
145°	573.6	573.3	573.0	572.6	572.3	572.0	571.7	571.4	571.1	570.8	571.2	35°
147.5°	599.1	598.8	598.5	598.2	597.9	597.6	597.3	597.0	596.7	596.4	596.8	37.5°
150°	617.1	617.5	617.8	618.1	618.4	618.7	619.0	619.3	619.6	619.9	620.7	40°
152.5°	632.7	633.2	633.7	634.2	634.7	635.3	635.8	636.3	636.8	637.3	638.3	42.5°
155°	650.8	651.0	651.2	651.4	651.6	651.8	652.0	652.2	652.4	652.6	653.3	45°
157.5°	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	665.9	47.5°
160°	676.1	676.0	675.9	675.8	675.7	675.6	675.5	675.4	675.2	675.1	676.4	50°
162.5°	685.2	685.0	684.8	684.6	684.4	684.1	683.9	683.7	683.5	683.3	684.6	52.5°
165°	695.4	695.2	695.0	694.8	694.6	694.4	694.2	694.0	693.8	693.6	694.4	55°
167.5°	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	705.0	57.5°
170°	710.1	710.3	710.5	710.7	711.0	711.2	711.4	711.6	711.8	712.0	713.0	60°
172.5°	710.1	710.3	710.5	710.7	711.0	711.2	711.4	711.6	711.8	712.0	713.0	62.5°
175°	711.8	711.6	711.4	711.2	711.0	710.7	710.5	710.3	710.1	709.9	711.0	65°
177.5°	716.8	716.5	716.2	715.9	715.6	715.2	714.9	714.6	714.3	714.0	714.8	67.5°
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	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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 NUMBER: IST-AF-1000-LED-E1-T2-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	110°	119.1
868.0	868.0	865.2	863.5	857.1	846.4	835.5	825.7	812.2	806.8	799.6	112.5°	150.4
870.6	868.9	866.1	862.6	850.0	824.8	798.7	770.8	742.0	716.0	685.4	115°	181.5
872.5	868.9	865.2	860.8	842.8	804.1	752.0	697.0	645.8	607.1	591.0	117.5°	213.2
873.4	870.6	866.1	859.9	834.7	777.1	693.5	614.3	569.4	554.0	551.4	120°	248.6
883.2	878.7	871.6	864.4	831.0	747.5	627.8	552.3	534.3	541.4	554.0	122.5°	282.7
895.8	890.5	881.5	874.2	829.3	708.8	564.0	517.2	523.4	543.3	564.0	125°	317.1
918.3	909.3	899.5	892.2	832.9	661.1	512.7	499.2	518.1	543.3	571.1	127.5°	353.7
951.7	939.0	927.3	914.7	838.3	601.7	482.1	487.5	509.9	536.9	567.5	130°	388.1
993.0	978.6	962.4	943.5	844.5	550.4	465.0	474.9	495.6	518.9	544.2	132.5°	423.9
1048.7	1029.0	1008.3	984.9	853.6	494.7	449.7	460.5	473.1	486.6	499.2	135°	460.7
1118.9	1091.9	1069.4	1038.0	862.6	457.0	437.1	440.7	443.4	445.2	444.4	137.5°	492.4
1212.4	1171.1	1145.0	1106.3	872.5	437.1	422.8	418.3	413.8	407.4	400.3	140°	521.5
1311.4	1277.3	1235.8	1186.3	878.7	423.6	409.3	394.9	382.3	375.9	375.9	142.5°	547.1
1426.5	1384.3	1332.1	1270.0	870.6	409.3	391.3	372.4	365.2	373.3	370.6	145°	571.6
1541.7	1483.2	1425.6	1354.6	850.9	393.0	371.4	361.6	366.9	356.2	349.8	147.5°	597.2
1668.4	1603.7	1523.7	1440.9	822.0	375.9	361.6	366.9	348.1	335.5	340.8	150°	621.5
1810.6	1734.1	1647.8	1535.3	803.2	365.2	346.3	350.8	334.6	325.6	322.9	152.5°	639.3
2004.0	1895.1	1789.9	1657.7	817.5	348.1	316.6	334.6	325.6	317.5	310.3	155°	653.9
2193.7	2077.7	1953.6	1797.9	842.8	335.5	293.2	317.5	323.8	310.3	296.9	157.5°	667.0
2384.4	2261.2	2116.4	1942.8	873.4	327.4	275.3	296.9	319.3	303.1	292.4	160°	677.6
2585.0	2429.4	2281.0	2093.9	912.9	319.3	260.9	278.9	311.2	303.1	286.9	162.5°	685.8
2795.4	2612.0	2463.6	2261.2	982.2	307.6	242.8	264.4	303.1	302.2	281.5	165°	695.2
3040.1	2876.4	2685.8	2479.7	1078.4	294.1	226.7	253.7	295.9	298.6	275.3	167.5°	706.2
3456.6	3287.5	3057.2	2861.1	1269.1	276.1	216.8	242.8	284.2	291.4	269.9	170°	714.0
4132.0	3901.7	3690.4	3506.9	1595.6	250.9	209.6	231.2	271.6	282.4	265.4	172.5°	714.0
4906.5	4681.6	4426.1	4117.7	1777.3	227.6	199.7	216.8	259.0	273.4	260.9	175°	712.0
5235.7	4941.6	4631.2	4265.2	1603.7	208.7	188.8	203.3	244.7	260.9	254.5	177.5°	715.7
5084.6	4786.8	4426.1	4067.3	1395.0	198.8	182.6	196.1	233.8	252.8	248.3	180°	716.1
4821.9	4522.4	4200.3	3769.6	1245.7	193.3	178.1	191.6	229.3	248.3	244.7		
3813.7	3546.5	3249.7	2921.3	849.0	175.4	163.7	178.1	211.3	232.0	231.2		
2021.0	1942.8	1723.4	1530.8	439.9	156.5	148.4	162.8	195.2	216.8	216.8		
727.6	660.2	631.4	524.4	233.8	136.7	133.1	143.9	177.2	197.8	197.0		
275.3	268.0	240.2	224.8	148.4	111.5	112.4	123.3	155.6	175.4	174.5		
155.6	141.2	136.7	132.3	94.4	88.2	92.7	103.4	133.1	150.2	152.9		
74.7	69.3	67.4	62.9	62.1	67.4	72.8	81.8	106.2	126.8	124.1		
36.0	34.2	33.2	32.4	44.1	43.2	53.1	56.7	71.1	100.8	90.8		
18.8	18.8	18.0	16.2	19.7	23.6	26.3	31.4	36.8	66.7	55.9		
6.1	6.1	6.1	6.1	6.1	6.1	7.2	7.2	6.1	6.1	6.1		
7.2	7.2	7.2	7.2	7.2	7.2	8.2	7.2	7.2	7.2	7.2		
8.2	8.2	8.2	8.2	8.2	9.2	10.2	12.3	9.2	9.2	8.2		
19.4	19.4	19.4	19.4	19.4	23.5	26.6	29.7	21.5	12.3	10.2		
39.5	39.3	39.1	38.9	39.9	43.0	48.1	51.1	40.9	27.6	18.4		
62.4	62.4	62.4	62.4	62.4	66.5	71.6	73.7	64.4	49.1	36.8		
88.6	88.4	88.2	88.0	89.0	92.1	96.2	97.2	90.0	74.7	59.3		

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 IST-AF-1000-LED-E1-T2-ULG

REPORT NUMBER: P226325
 CATALOG NUMBER: IST-AF-10

TION (continued):

CANDELA DISTRIBUTION (con

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
119.3	119.5	119.7	118.7	121.7	123.8	122.8	116.6	104.3	89.0	0°	861.6	861.6
150.4	150.4	150.4	150.4	152.4	153.4	151.4	146.3	137.1	123.8	2.5°	793.3	780.7
181.7	181.9	182.1	181.1	183.1	186.2	183.1	178.0	171.9	162.6	5°	662.9	661.1
213.4	213.6	213.8	212.8	214.8	219.9	215.8	209.7	206.6	201.5	7.5°	581.0	569.4
248.6	248.6	248.6	248.6	250.6	255.7	251.6	248.6	242.4	238.3	10°	554.0	553.1
282.9	283.2	283.4	282.3	284.4	289.5	285.4	283.4	277.2	273.1	12.5°	565.8	568.5
317.1	317.1	317.1	317.1	317.1	322.2	320.2	317.1	312.0	305.9	15°	581.0	586.5
354.1	354.6	355.0	352.9	353.9	353.9	352.9	347.8	346.8	340.6	17.5°	591.0	600.8
388.3	388.5	388.7	387.7	389.7	389.7	385.7	380.5	378.5	374.4	20°	588.2	600.0
424.1	424.3	424.5	423.5	423.5	425.5	420.4	414.3	413.3	410.2	22.5°	558.5	564.0
460.9	461.1	461.4	460.3	457.3	458.3	453.2	447.0	445.0	441.9	25°	505.4	507.3
492.7	492.9	493.1	492.0	486.9	485.9	483.9	478.7	474.6	470.6	27.5°	441.6	439.9
521.9	522.3	522.7	520.7	515.6	513.5	511.5	508.4	502.3	500.2	30°	396.7	384.9
547.5	547.9	548.3	546.3	545.2	545.2	539.1	537.0	533.0	529.9	32.5°	375.9	368.8
572.0	572.4	572.9	570.8	573.9	574.9	568.8	563.6	562.6	559.6	35°	361.6	349.8
597.6	598.0	598.4	596.4	599.4	598.4	593.3	588.2	587.2	587.2	37.5°	375.1	374.2
622.4	623.2	624.0	619.9	616.8	613.8	610.7	606.6	606.6	606.6	40°	387.7	385.9
640.4	641.4	642.4	637.3	632.2	628.1	625.0	624.0	624.0	623.0	42.5°	366.1	349.8
654.5	655.1	655.7	652.6	650.6	645.5	640.4	642.4	644.5	641.4	45°	326.5	307.6
668.0	669.0	670.0	664.9	664.9	662.9	658.8	659.8	660.8	658.8	47.5°	299.5	288.7
678.8	680.1	681.3	675.1	676.2	679.2	673.1	670.0	670.0	671.1	50°	286.9	283.4
687.0	688.2	689.5	683.3	685.4	686.4	682.3	678.2	676.2	680.3	52.5°	283.4	292.4
696.0	696.8	697.7	693.6	695.6	692.5	687.4	688.4	688.4	691.5	55°	281.5	291.4
707.5	708.7	709.9	703.8	703.8	699.7	693.6	700.7	703.8	701.7	57.5°	268.9	286.0
715.0	716.1	717.1	712.0	709.9	704.8	701.7	706.9	708.9	707.9	60°	259.9	280.6
715.0	716.1	717.1	712.0	709.9	707.9	704.8	705.8	705.8	708.9	62.5°	254.5	277.9
713.0	714.0	715.0	709.9	712.0	711.0	705.8	705.8	706.9	711.0	65°	250.0	279.8
716.5	717.3	718.1	714.0	717.1	715.0	709.9	711.0	713.0	715.0	67.5°	242.8	285.1
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	69°	239.3	284.2
										70°	235.7	281.5
										72.5°	223.1	259.9
										75°	207.8	229.3
										77.5°	188.0	197.0
										80°	166.4	171.8
										82.5°	144.8	165.5
										85°	113.3	140.3
										87.5°	83.7	77.3
										90°	54.8	40.2
										92.5°	5.1	4.1
										95°	6.1	5.1
										97.5°	8.2	7.2
										100°	9.2	8.2
										102.5°	13.3	11.3
										105°	27.6	22.5
										107.5°	50.1	43.0

00-LED-E1-T2-ULG

REPORT NUMBER: P226325

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

tinued):

180°
861.6
783.4
655.7
570.3
555.9
566.6
588.2
604.5
602.6
568.5
509.1
447.0
393.9
376.9
355.3
378.7
389.4
353.4
307.6
286.9
281.5
295.0
290.5
286.9
281.5
277.0
276.1
277.9
274.4
269.9
242.8
218.6
197.0
173.6
146.6
109.8
83.7
34.8
4.1
5.1
7.2
8.2
11.3
21.5
41.9

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
110°	75.7	69.6	67.5
112.5°	108.4	101.3	101.3
115°	150.4	142.2	143.2
117.5°	193.3	188.2	188.2
120°	231.2	228.1	230.2
122.5°	267.0	266.0	269.0
125°	302.8	300.7	304.8
127.5°	336.6	336.6	337.6
130°	370.3	369.3	371.3
132.5°	402.0	403.0	405.1
135°	435.8	435.8	438.8
137.5°	469.5	467.5	470.6
140°	498.2	496.1	499.2
142.5°	528.9	526.8	529.9
145°	556.5	558.5	562.6
147.5°	584.1	585.1	588.2
150°	606.6	605.6	608.7
152.5°	622.0	622.0	625.0
155°	639.3	639.3	643.4
157.5°	657.8	657.8	660.8
160°	674.1	675.1	678.2
162.5°	684.4	684.4	688.4
165°	691.5	693.6	696.6
167.5°	699.7	702.8	705.8
170°	707.9	711.0	714.0
172.5°	711.0	713.0	715.0
175°	713.0	714.0	716.1
177.5°	716.1	721.2	723.2
180°	716.1	716.1	716.1

(END OF F

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

Scaled Data Report

