

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: P227009

Luminaire Tested: **IST-AF-1200-LED-E1-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)
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-SL3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6672.7 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U1 - G2

Input Watts (W): 66
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

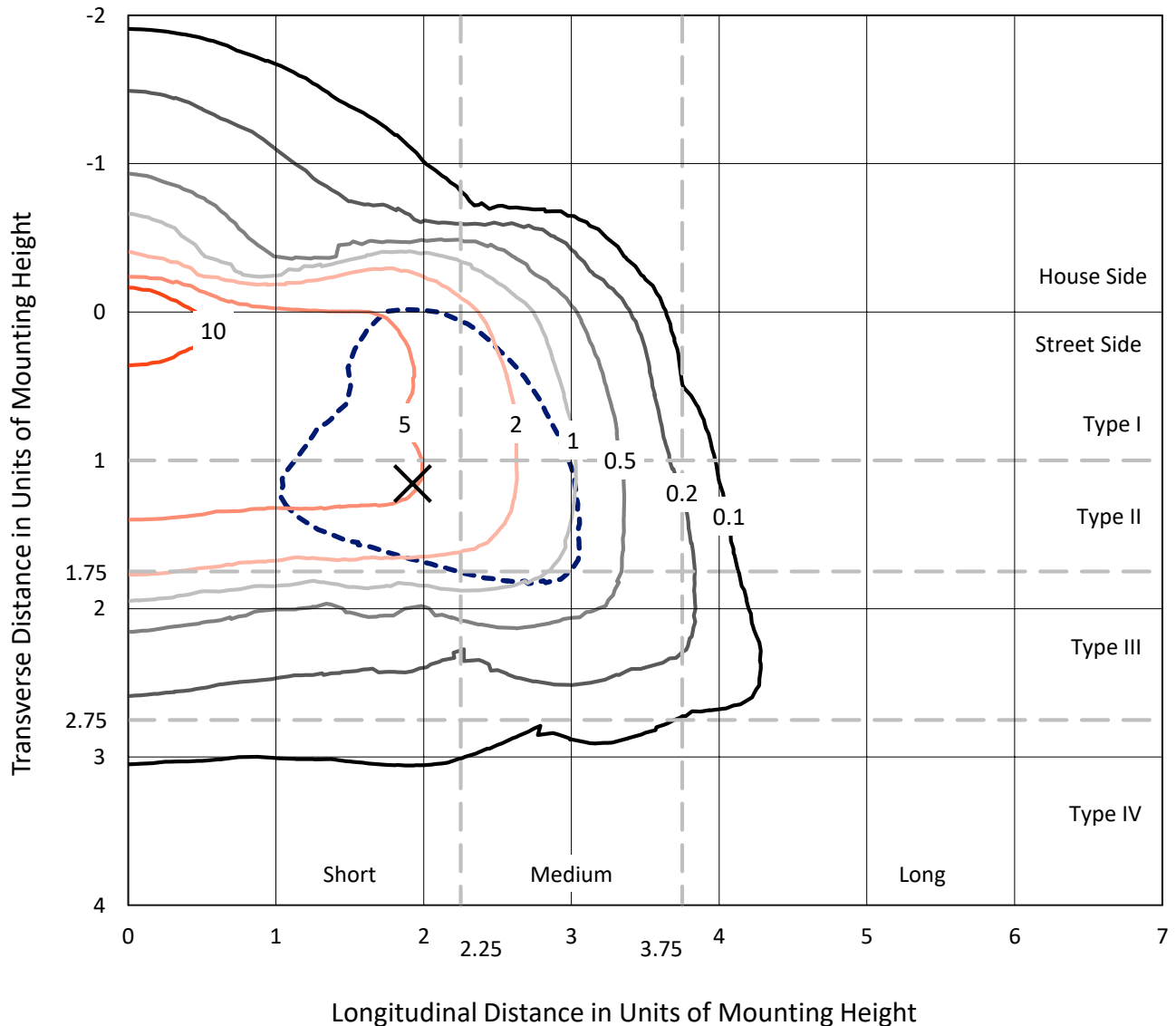


REPORT NUMBER: P227009

CATALOG NUMBER: IST-AF-1200-LED-E1-SL3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

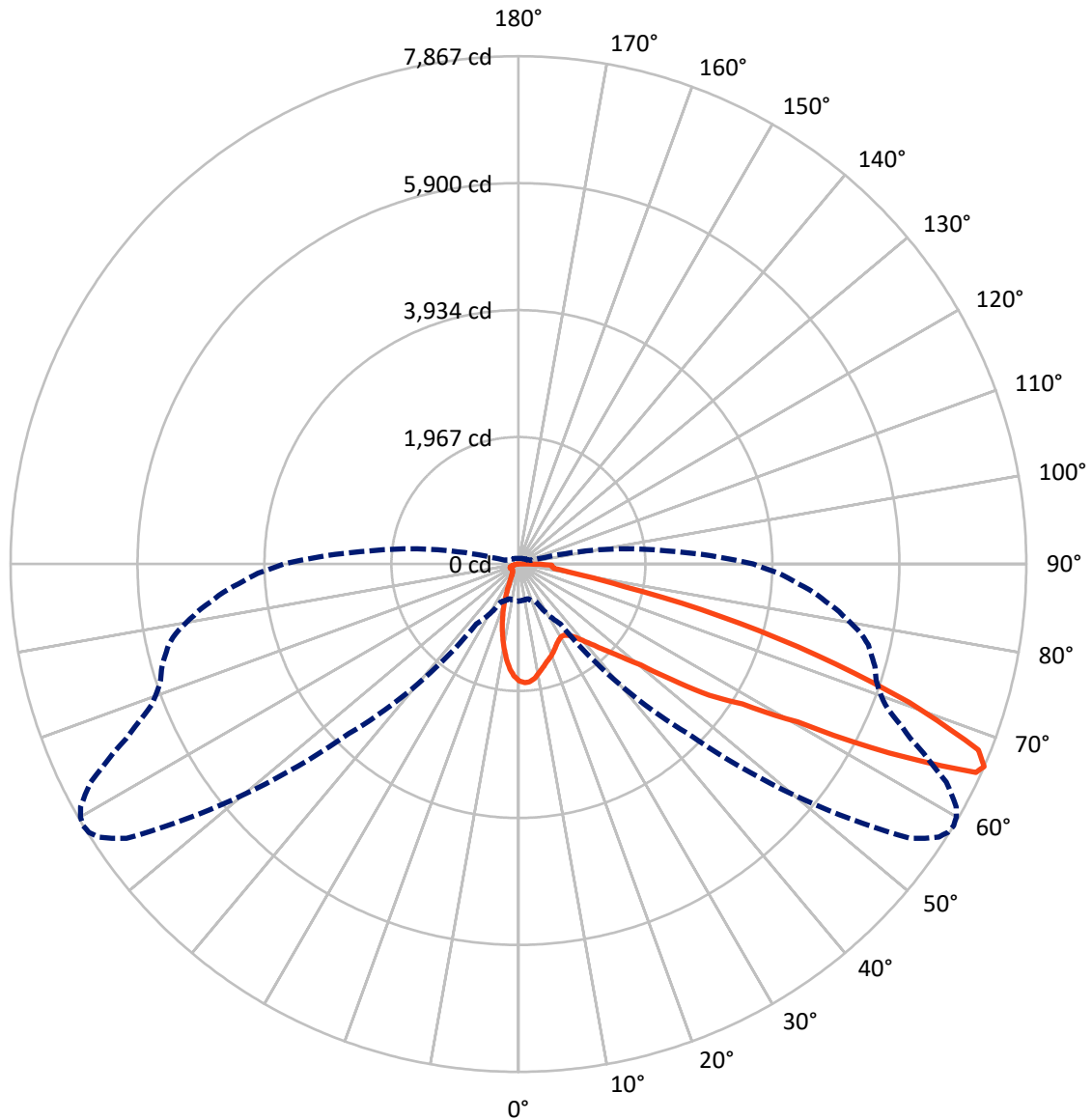


Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P227009

CATALOG NUMBER: IST-AF-1200-LED-E1-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P227009

CATALOG NUMBER: IST-AF-1200-LED-E1-SL3

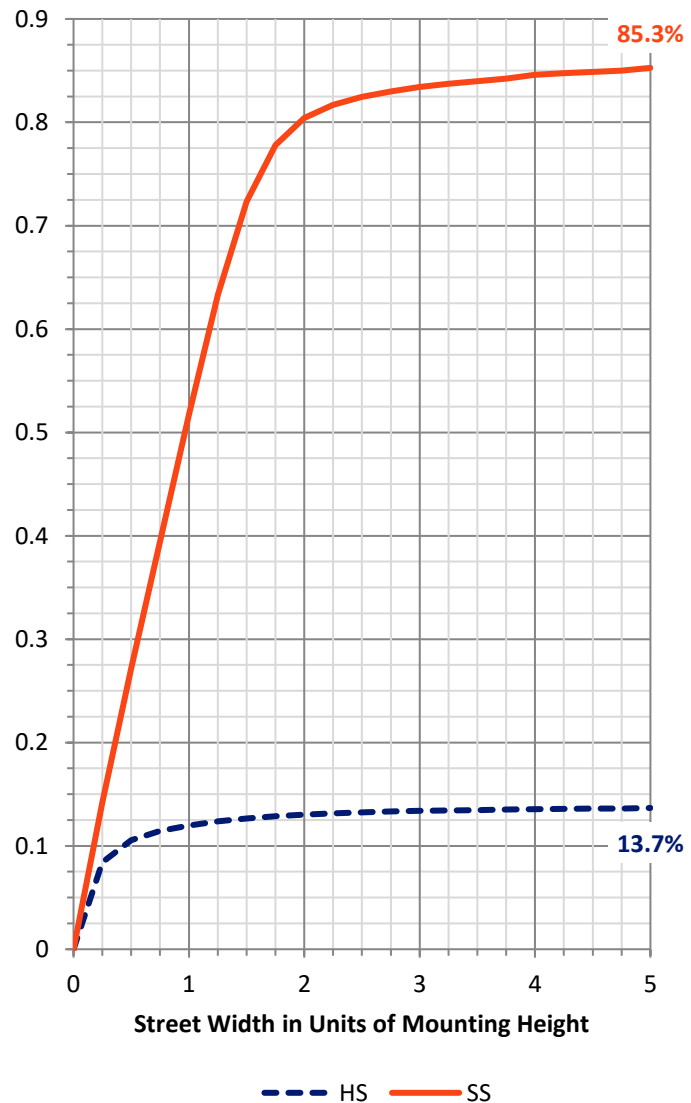
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	925.8	0.4	926.2
	% Fixture	13.9	0.0	13.9
Street Side	Lumens	5744.0	2.4	5746.5
	% Fixture	86.1	0.0	86.1
Total	Lumens	6669.8	2.9	6672.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	2.3
10°-20°	326.4	4.9
20°-30°	409.5	6.1
30°-40°	560.2	8.4
40°-50°	901.2	13.5
50°-60°	1566.0	23.5
60°-70°	1902.7	28.5
70°-80°	709.8	10.6
80°-90°	139.6	2.1
90°-100°	2.9	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6669.8	100.0
0°-180°	6672.7	100.0



REPORT NUMBER: P227009

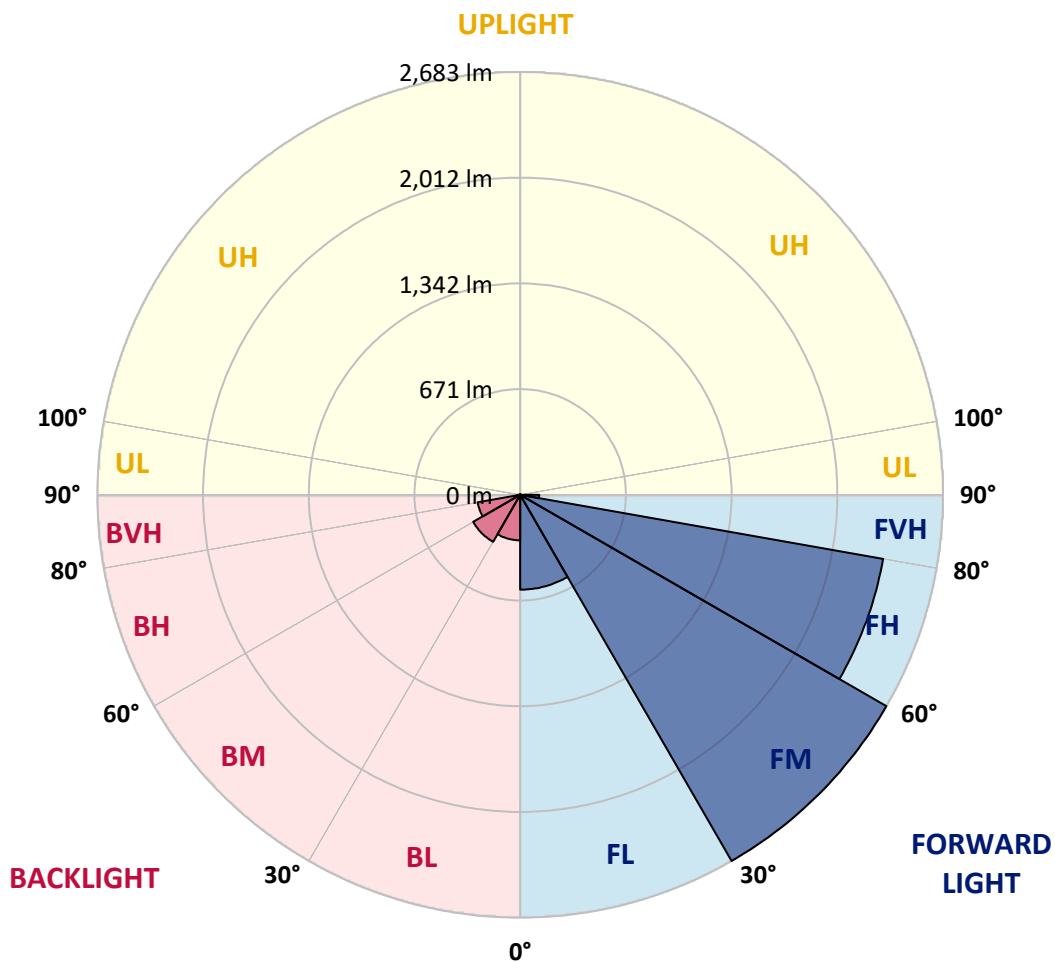
CATALOG NUMBER: IST-AF-1200-LED-E1-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.7	9.0			
FM	(30°-60°)	2683.2	40.2			
FH	(60°-80°)	2338.7	35.0			G2/5000
FVH	(80°-90°)	120.4	1.8			G2/225
BL	(0°-30°)	288.7	4.3	B1/500		
BM	(30°-60°)	344.2	5.2	B1/1000		
BH	(60°-80°)	273.7	4.1	B1/500		G1/500
BVH	(80°-90°)	19.2	0.3			G1/100
UL	(90°-100°)	2.9	0.0		U1/10	
UH	(100°-180°)	0.4	0.0		U1/10	

BUG Rating: B1-U1-G2

Type II Short





REPORT NUMBER: P227009

CATALOG NUMBER: IST-AF-1200-LED-E1-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°	
0°	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8
2.5°	1859.8	1853.7	1864.9	1860.8	1863.9	1848.6	1845.5	1842.4	1844.5	1841.4	1841.4	1841.4
5°	1815.8	1812.8	1826.1	1833.2	1839.4	1837.3	1836.3	1836.3	1837.3	1830.2	1831.2	1831.2
7.5°	1686.9	1684.9	1703.3	1716.6	1746.3	1763.7	1786.2	1787.2	1789.2	1786.2	1792.3	1792.3
10°	1549.9	1556.0	1572.4	1593.9	1637.8	1664.4	1707.4	1715.6	1718.7	1719.7	1720.7	1720.7
12.5°	1418.9	1412.8	1433.3	1474.2	1533.5	1576.5	1630.7	1634.8	1639.9	1647.1	1654.2	1654.2
15°	1302.3	1309.5	1325.8	1368.8	1431.2	1491.6	1562.1	1566.2	1576.5	1582.6	1592.8	1592.8
17.5°	1222.5	1222.5	1240.9	1280.8	1339.1	1415.9	1504.9	1512.0	1520.2	1528.4	1539.6	1539.6
20°	1182.6	1182.6	1189.8	1213.3	1264.5	1338.1	1445.5	1453.7	1468.0	1477.2	1492.6	1492.6
22.5°	1179.6	1178.5	1177.5	1182.6	1213.3	1270.6	1382.1	1393.4	1405.6	1420.0	1433.3	1433.3
25°	1212.3	1215.4	1203.1	1194.9	1198.0	1224.6	1321.8	1327.9	1351.4	1360.6	1377.0	1377.0
27.5°	1259.4	1264.5	1254.2	1242.0	1223.6	1206.2	1270.6	1280.8	1296.2	1311.5	1332.0	1332.0
30°	1326.9	1325.8	1324.8	1316.6	1280.8	1226.6	1255.3	1262.4	1275.7	1288.0	1305.4	1305.4
32.5°	1399.5	1407.7	1413.8	1409.7	1372.9	1280.8	1276.7	1282.9	1295.2	1302.3	1313.6	1313.6
35°	1493.6	1497.7	1521.2	1521.2	1484.4	1378.0	1337.1	1342.2	1348.4	1351.4	1359.6	1359.6
37.5°	1596.9	1611.2	1646.0	1666.5	1609.2	1498.7	1432.2	1432.2	1435.3	1437.3	1442.5	1442.5
40°	1716.6	1737.1	1785.2	1824.0	1787.2	1649.1	1557.0	1566.2	1563.2	1559.1	1570.3	1570.3
42.5°	1855.7	1878.2	1936.5	1973.4	1951.9	1830.2	1724.8	1718.7	1727.9	1715.6	1719.7	1719.7
45°	2017.4	2034.8	2094.1	2133.0	2150.3	2052.1	1944.7	1932.5	1932.5	1905.9	1917.1	1917.1
47.5°	2162.6	2167.7	2225.0	2293.6	2349.8	2351.9	2200.5	2192.3	2172.8	2155.5	2151.4	2151.4
50°	2297.6	2313.0	2349.8	2424.5	2542.1	2644.5	2552.4	2526.8	2505.3	2440.9	2460.3	2460.3
52.5°	2531.9	2561.6	2585.2	2630.2	2769.3	2977.0	3090.5	3050.6	3045.5	2987.2	2973.9	2973.9
55°	2576.0	2579.1	2656.8	2916.6	3244.0	3393.3	3611.2	3610.2	3626.6	3608.2	3590.8	3590.8
57.5°	2369.3	2344.7	2474.6	2817.4	3475.2	4242.4	4175.9	4183.1	4161.6	4105.3	4087.9	4087.9
60°	1845.5	1866.0	2006.1	2442.9	3308.4	4790.8	5229.6	5099.7	5192.8	5046.5	4967.8	4967.8
62.5°	1038.4	1014.9	1110.0	1569.3	2714.1	4819.4	6664.9	6679.3	6724.3	6642.4	6450.1	6450.1
65°	670.0	659.8	650.6	793.8	1626.6	4215.8	7458.7	7634.7	7740.2	7783.1	7786.2	7786.2
66°	575.9	567.7	556.5	649.6	1133.5	3714.5	7407.6	7595.8	7763.7	7843.5	7867.0	7867.0
67.5°	490.0	477.7	475.7	538.1	788.7	2881.9	6919.6	7215.3	7363.6	7570.2	7682.8	7682.8
70°	374.4	368.3	386.7	464.4	605.6	1356.5	5514.0	5899.7	6155.5	6317.1	6421.5	6421.5
72.5°	314.0	312.0	337.6	424.5	573.9	769.3	3859.8	4274.2	4541.2	4695.7	4838.9	4838.9
75°	245.5	247.6	281.3	405.1	570.8	670.0	2242.4	2637.4	2792.9	3036.3	3222.5	3222.5
77.5°	184.1	182.1	208.7	327.3	556.5	679.2	1165.2	1328.9	1499.7	1623.5	1668.5	1668.5
80°	128.9	130.9	149.4	225.0	433.7	698.7	726.3	764.1	799.9	839.8	848.0	848.0
82.5°	85.9	87.0	110.5	154.5	300.7	667.0	678.2	660.8	633.2	598.4	560.6	560.6
85°	52.2	54.2	78.8	104.3	233.2	603.5	701.7	655.7	613.8	567.7	521.7	521.7
87.5°	26.6	29.7	47.1	61.4	138.1	297.7	730.4	696.6	639.3	568.8	517.6	517.6
90°	7.2	7.2	10.2	15.3	27.6	60.4	184.1	165.7	82.9	157.5	77.7	77.7
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227009

CATALOG NUMBER: IST-AF-1200-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227009

CATALOG NUMBER: IST-AF-1200-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8
2.5°	1840.4	1842.4	1840.4	1837.3	1840.4	1837.3	1836.3	1835.3	1836.3	1834.3	1833.2
5°	1831.2	1833.2	1833.2	1827.1	1826.1	1830.2	1824.0	1826.1	1824.0	1822.0	1817.9
7.5°	1787.2	1788.2	1789.2	1785.2	1788.2	1788.2	1786.2	1786.2	1784.1	1785.2	1781.1
10°	1725.8	1729.9	1734.0	1732.0	1730.9	1740.1	1736.0	1739.1	1739.1	1736.0	1737.1
12.5°	1659.3	1666.5	1671.6	1671.6	1675.7	1685.9	1684.9	1686.9	1695.1	1695.1	1692.1
15°	1598.0	1605.1	1613.3	1619.4	1627.6	1634.8	1639.9	1648.1	1652.2	1652.2	1657.3
17.5°	1549.9	1560.1	1569.3	1572.4	1583.6	1595.9	1599.0	1609.2	1615.3	1618.4	1624.5
20°	1502.8	1514.1	1525.3	1535.6	1545.8	1560.1	1567.3	1573.4	1583.6	1589.8	1599.0
22.5°	1447.6	1465.0	1479.3	1491.6	1509.0	1521.2	1535.6	1545.8	1558.1	1567.3	1574.4
25°	1395.4	1418.9	1438.4	1450.6	1474.2	1491.6	1509.0	1524.3	1539.6	1552.9	1563.2
27.5°	1347.3	1373.9	1397.5	1416.9	1442.5	1470.1	1487.5	1513.0	1533.5	1551.9	1564.2
30°	1323.8	1346.3	1370.9	1393.4	1418.9	1453.7	1482.4	1515.1	1540.7	1564.2	1582.6
32.5°	1328.9	1349.4	1370.9	1390.3	1416.9	1455.8	1485.4	1523.3	1561.1	1591.8	1615.3
35°	1369.8	1388.2	1402.6	1420.0	1443.5	1473.2	1504.9	1544.8	1591.8	1632.7	1663.4
37.5°	1455.8	1460.9	1475.2	1488.5	1500.8	1528.4	1558.1	1591.8	1646.0	1689.0	1732.0
40°	1562.1	1575.4	1588.7	1594.9	1609.2	1626.6	1639.9	1675.7	1723.8	1780.0	1827.1
42.5°	1720.7	1725.8	1727.9	1729.9	1735.0	1747.3	1766.7	1799.5	1846.5	1896.7	1948.8
45°	1898.7	1904.8	1911.0	1914.0	1906.9	1914.0	1934.5	1949.8	1995.9	2042.9	2109.4
47.5°	2145.2	2126.8	2117.6	2129.9	2123.7	2139.1	2148.3	2157.5	2212.7	2269.0	2325.3
50°	2461.3	2450.1	2435.7	2436.8	2448.0	2437.8	2443.9	2477.7	2496.1	2543.2	2617.9
52.5°	2966.8	2932.0	2877.8	2854.2	2867.5	2859.4	2862.4	2869.6	2857.3	2901.3	2964.7
55°	3590.8	3545.8	3509.9	3489.5	3413.8	3407.7	3357.5	3339.1	3299.2	3341.2	3326.8
57.5°	4035.7	4007.1	3988.7	3927.3	3892.5	3823.0	3802.5	3778.0	3722.7	3750.3	3774.9
60°	4895.1	4792.8	4758.1	4650.6	4614.8	4548.3	4463.4	4421.5	4392.9	4419.5	4403.1
62.5°	6329.4	6187.2	6159.6	5904.8	5842.4	5688.9	5529.4	5507.9	5417.9	5361.6	5348.3
65°	7729.9	7526.3	7373.8	7095.6	6907.4	6688.5	6445.0	6267.0	6083.9	5991.8	5870.0
66°	7834.3	7753.5	7599.9	7437.3	7163.1	6923.7	6647.5	6455.2	6249.6	6088.0	5983.6
67.5°	7656.2	7613.2	7559.0	7448.5	7276.7	7053.7	6791.8	6546.3	6298.7	6108.4	5941.6
70°	6471.6	6518.7	6580.0	6551.4	6453.2	6366.2	6135.0	5998.0	5811.7	5562.1	5459.8
72.5°	4884.9	5010.7	4967.8	4806.1	4730.4	4670.1	4586.2	4494.1	4227.0	4196.3	4075.6
75°	3142.7	3100.8	3128.4	2932.0	2798.0	2742.7	2543.2	2461.3	2260.8	2130.9	2031.7
77.5°	1656.3	1574.4	1511.0	1338.1	1214.3	1141.7	1044.5	930.0	753.9	743.7	583.1
80°	768.2	705.8	648.6	588.2	527.8	448.1	388.7	317.1	280.3	240.4	224.0
82.5°	521.7	481.8	447.0	407.1	361.1	305.9	263.9	224.0	191.3	171.9	156.5
85°	472.6	429.6	390.8	340.6	292.6	246.5	201.5	166.7	136.1	118.7	108.4
87.5°	459.3	406.1	365.2	311.0	263.9	216.9	173.9	135.0	105.4	85.9	73.7
90°	58.3	62.4	45.0	43.0	18.4	23.5	17.4	10.2	11.3	8.2	9.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227009

CATALOG NUMBER: IST-AF-1200-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227009

CATALOG NUMBER: IST-AF-1200-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8
2.5°	1831.2	1828.1	1831.2	1830.2	1826.1	1827.1	1828.1	1824.0	1822.0	1822.0	1821.0
5°	1814.8	1812.8	1814.8	1813.8	1807.7	1806.6	1806.6	1803.6	1799.5	1796.4	1794.4
7.5°	1775.9	1778.0	1777.0	1773.9	1770.8	1770.8	1767.8	1760.6	1756.5	1752.4	1748.3
10°	1732.0	1732.0	1733.0	1732.0	1726.8	1724.8	1720.7	1716.6	1717.6	1707.4	1699.2
12.5°	1693.1	1693.1	1692.1	1690.0	1686.9	1685.9	1685.9	1673.6	1670.6	1667.5	1658.3
15°	1656.3	1658.3	1658.3	1658.3	1653.2	1653.2	1648.1	1639.9	1639.9	1630.7	1621.5
17.5°	1627.6	1630.7	1629.7	1630.7	1631.7	1625.6	1616.4	1611.2	1605.1	1600.0	1587.7
20°	1603.1	1605.1	1606.1	1606.1	1603.1	1599.0	1590.8	1582.6	1578.5	1568.3	1552.9
22.5°	1580.6	1584.7	1585.7	1585.7	1581.6	1578.5	1570.3	1558.1	1549.9	1537.6	1523.3
25°	1571.4	1576.5	1573.4	1575.4	1571.4	1564.2	1552.9	1542.7	1530.4	1515.1	1499.7
27.5°	1574.4	1581.6	1579.5	1578.5	1573.4	1568.3	1554.0	1541.7	1527.4	1509.0	1489.5
30°	1592.8	1605.1	1600.0	1595.9	1594.9	1582.6	1569.3	1551.9	1535.6	1514.1	1491.6
32.5°	1627.6	1633.8	1634.8	1631.7	1626.6	1616.4	1598.0	1575.4	1557.0	1531.5	1504.9
35°	1684.9	1691.0	1689.0	1689.0	1683.9	1667.5	1645.0	1622.5	1596.9	1568.3	1540.7
37.5°	1764.7	1775.9	1773.9	1769.8	1763.7	1744.2	1726.8	1699.2	1670.6	1632.7	1601.0
40°	1864.9	1882.3	1897.7	1894.6	1880.3	1862.9	1846.5	1814.8	1786.2	1744.2	1709.5
42.5°	2000.0	2023.5	2042.9	2057.3	2051.1	2028.6	2000.0	1986.7	1945.8	1902.8	1867.0
45°	2172.8	2222.0	2239.3	2256.7	2256.7	2242.4	2236.3	2209.7	2166.7	2109.4	2075.7
47.5°	2401.0	2466.4	2485.9	2515.5	2532.9	2517.6	2506.3	2461.3	2432.7	2353.9	2345.7
50°	2678.3	2743.8	2797.0	2831.7	2826.6	2839.9	2813.3	2787.7	2747.9	2683.4	2660.9
52.5°	3032.2	3084.4	3132.5	3152.9	3174.4	3171.4	3165.2	3147.8	3097.7	3062.9	3005.6
55°	3395.4	3438.3	3496.7	3530.4	3558.0	3552.9	3529.4	3487.4	3496.7	3424.0	3392.3
57.5°	3808.7	3855.7	3919.1	3950.8	3963.1	4025.5	4010.2	4005.1	3987.7	3962.1	3929.4
60°	4519.7	4533.0	4585.2	4665.0	4763.2	4743.7	4768.3	4784.6	4796.9	4739.6	4735.5
62.5°	5366.7	5383.1	5428.1	5444.5	5458.8	5460.8	5428.1	5428.1	5371.8	5298.2	5240.9
65°	5829.1	5795.3	5764.6	5747.2	5709.4	5675.6	5626.5	5560.0	5464.9	5351.4	5249.1
66°	5895.6	5827.0	5787.1	5743.2	5682.8	5620.4	5562.1	5471.0	5359.5	5224.5	5089.5
67.5°	5831.1	5737.0	5643.9	5579.5	5495.6	5383.1	5280.8	5174.4	5069.0	4883.9	4758.1
70°	5242.9	5130.4	5028.1	4886.9	4754.0	4643.5	4467.5	4282.4	4129.9	3935.5	3811.7
72.5°	3893.6	3760.6	3627.6	3429.1	3235.8	3207.2	2986.2	2768.3	2651.7	2495.1	2369.3
75°	1923.2	1755.5	1517.1	1410.8	1256.3	1180.6	1138.6	981.1	943.3	788.7	786.6
77.5°	543.2	466.5	414.3	361.1	338.6	322.2	266.0	254.7	231.2	227.1	213.8
80°	205.6	194.4	189.2	184.1	179.0	175.9	173.9	165.7	161.6	155.5	152.4
82.5°	148.3	144.2	135.0	132.0	127.9	121.7	120.7	115.6	112.5	106.4	104.3
85°	100.2	95.1	90.0	84.9	82.9	81.8	78.8	76.7	74.7	71.6	70.6
87.5°	67.5	62.4	56.3	54.2	53.2	54.2	55.2	53.2	52.2	50.1	49.1
90°	8.2	11.3	10.2	10.2	12.3	10.2	10.2	11.3	10.2	10.2	9.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227009
 CATALOG NUMBER: IST-AF-1200-LED-E1-SL3

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

'227009
 IST-AF-1200-LED-E1-SL3

REPORT NUMBER: P227009
 CATALOG NUMBER: IST-AF-12

TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	1812.8	1812.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	1753.4	1737.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	1660.4	1623.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	1534.5	1462.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	1390.3	1287.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	1240.9	1109.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	1101.8	926.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	955.5	739.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	815.3	558.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	656.7	391.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	481.8	284.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	343.7	227.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	256.8	191.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	205.6	165.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	174.9	150.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	156.5	140.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	146.3	135.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	140.1	129.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	137.1	126.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	135.0	122.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	133.0	122.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	134.0	124.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	139.1	124.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	147.3	124.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	153.4	126.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	155.5	130.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	153.4	133.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	151.4	133.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	148.3	130.9
										70°	141.2	122.8
										72.5°	126.8	110.5
										75°	108.4	89.0
										77.5°	88.0	71.6
										80°	65.5	54.2
										82.5°	48.1	41.9
										85°	33.8	29.7
										87.5°	20.5	18.4
										90°	5.1	5.1
										92.5°	0.0	0.0
										95°	0.0	0.0
										97.5°	0.0	0.0
										100°	0.0	0.0
										102.5°	0.0	0.0
										105°	0.0	0.0
										107.5°	0.0	0.0



REPORT NUMBER: P227009

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

00-LED-E1-SL3

tinued):

135°	145°	155°	165°	175°	180°
1812.8	1812.8	1812.8	1812.8	1812.8	1812.8
1725.8	1724.8	1699.2	1694.1	1676.7	1685.9
1579.5	1562.1	1516.1	1506.9	1487.5	1482.4
1404.6	1356.5	1319.7	1278.8	1239.9	1259.4
1200.0	1119.2	1038.4	985.2	963.7	956.6
1005.7	860.4	759.0	654.7	617.9	631.2
770.3	604.6	469.5	409.2	374.4	368.3
543.2	387.7	325.3	310.0	302.8	302.8
368.3	295.6	272.1	264.9	264.9	266.0
280.3	248.6	238.3	239.4	243.5	244.5
232.2	219.9	214.8	222.0	230.2	231.2
200.5	197.4	198.5	207.7	215.8	216.9
175.9	179.0	183.1	191.3	198.5	200.5
158.6	163.7	166.7	171.9	175.9	177.0
146.3	152.4	151.4	154.5	157.5	158.6
139.1	142.2	139.1	141.2	141.2	143.2
133.0	134.0	128.9	129.9	132.0	132.0
126.8	125.8	120.7	122.8	125.8	126.8
120.7	118.7	114.6	118.7	123.8	124.8
115.6	113.5	111.5	116.6	122.8	123.8
113.5	111.5	109.5	116.6	122.8	123.8
113.5	111.5	109.5	114.6	120.7	121.7
114.6	112.5	108.4	113.5	117.6	118.7
115.6	113.5	106.4	109.5	111.5	112.5
115.6	111.5	104.3	105.4	105.4	106.4
113.5	108.4	100.2	100.2	99.2	99.2
113.5	104.3	96.2	94.1	92.1	92.1
112.5	103.3	95.1	92.1	89.0	89.0
110.5	101.3	93.1	89.0	85.9	85.9
103.3	97.2	88.0	83.9	80.8	79.8
92.1	89.0	81.8	78.8	75.7	74.7
77.7	78.8	74.7	72.6	69.6	68.5
65.5	67.5	65.5	64.4	62.4	61.4
52.2	56.3	54.2	54.2	55.2	53.2
39.9	45.0	43.0	45.0	47.1	44.0
27.6	32.7	32.7	33.8	34.8	32.7
17.4	21.5	20.5	21.5	21.5	20.5
4.1	7.2	4.1	6.1	5.1	4.1
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
110°	0.0	0.0	0.0
112.5°	0.0	0.0	0.0
115°	0.0	0.0	0.0
117.5°	0.0	0.0	0.0
120°	0.0	0.0	0.0
122.5°	0.0	0.0	0.0
125°	0.0	0.0	0.0
127.5°	0.0	0.0	0.0
130°	0.0	0.0	0.0
132.5°	0.0	0.0	0.0
135°	0.0	0.0	0.0
137.5°	0.0	0.0	0.0
140°	0.0	0.0	0.0
142.5°	0.0	0.0	0.0
145°	0.0	0.0	0.0
147.5°	0.0	0.0	0.0
150°	0.0	0.0	0.0
152.5°	0.0	0.0	0.0
155°	0.0	0.0	0.0
157.5°	0.0	0.0	0.0
160°	0.0	0.0	0.0
162.5°	0.0	0.0	0.0
165°	0.0	0.0	0.0
167.5°	0.0	0.0	0.0
170°	0.0	0.0	0.0
172.5°	0.0	0.0	0.0
175°	0.0	0.0	0.0
177.5°	0.0	0.0	0.0
180°	0.0	0.0	0.0

