

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: P226988

Luminaire Tested: **IST-AF-1200-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226988
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-SL3-7030
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5774.2 lumens
Efficiency: N/A
Efficacy: 87.5 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

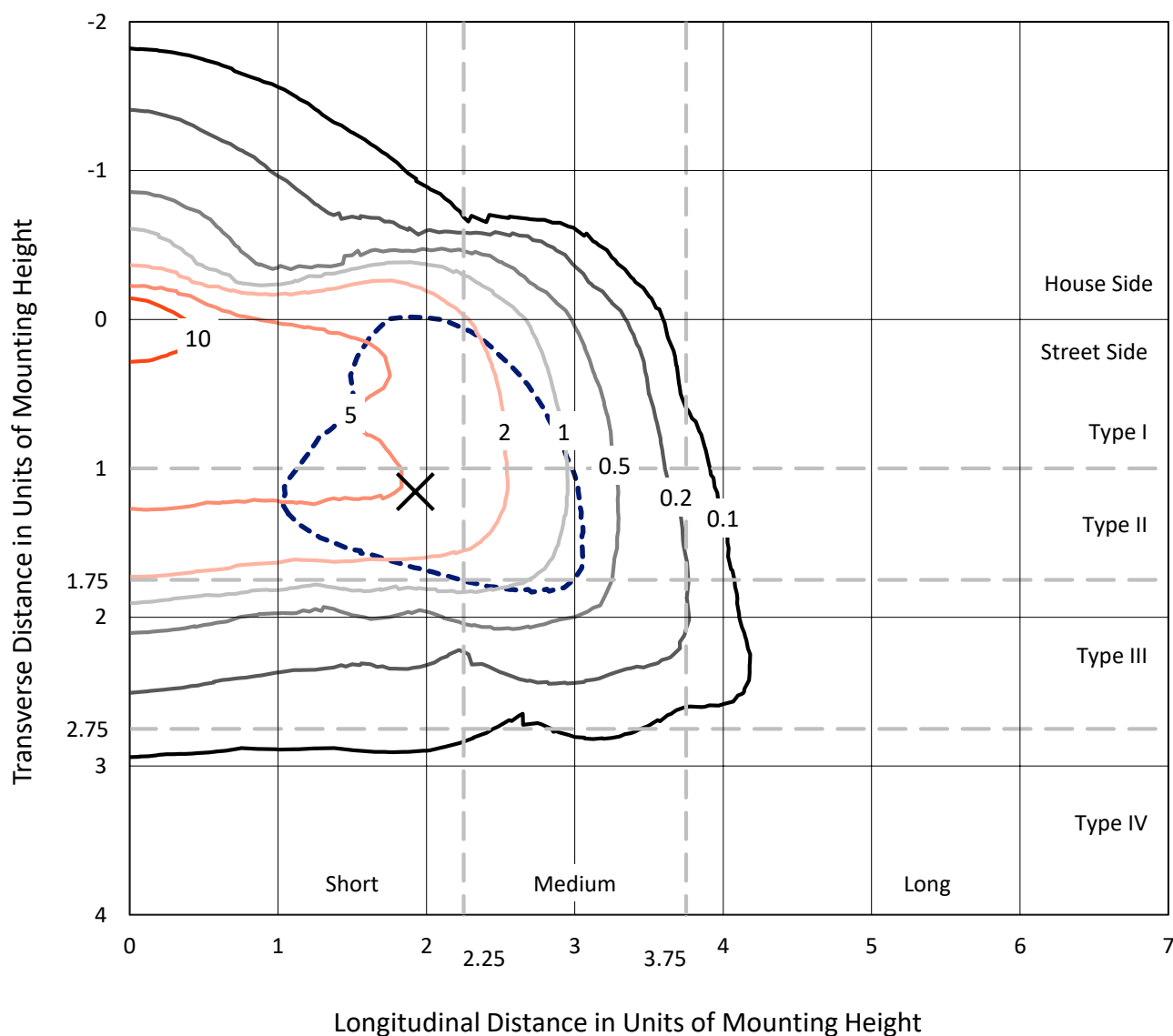


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

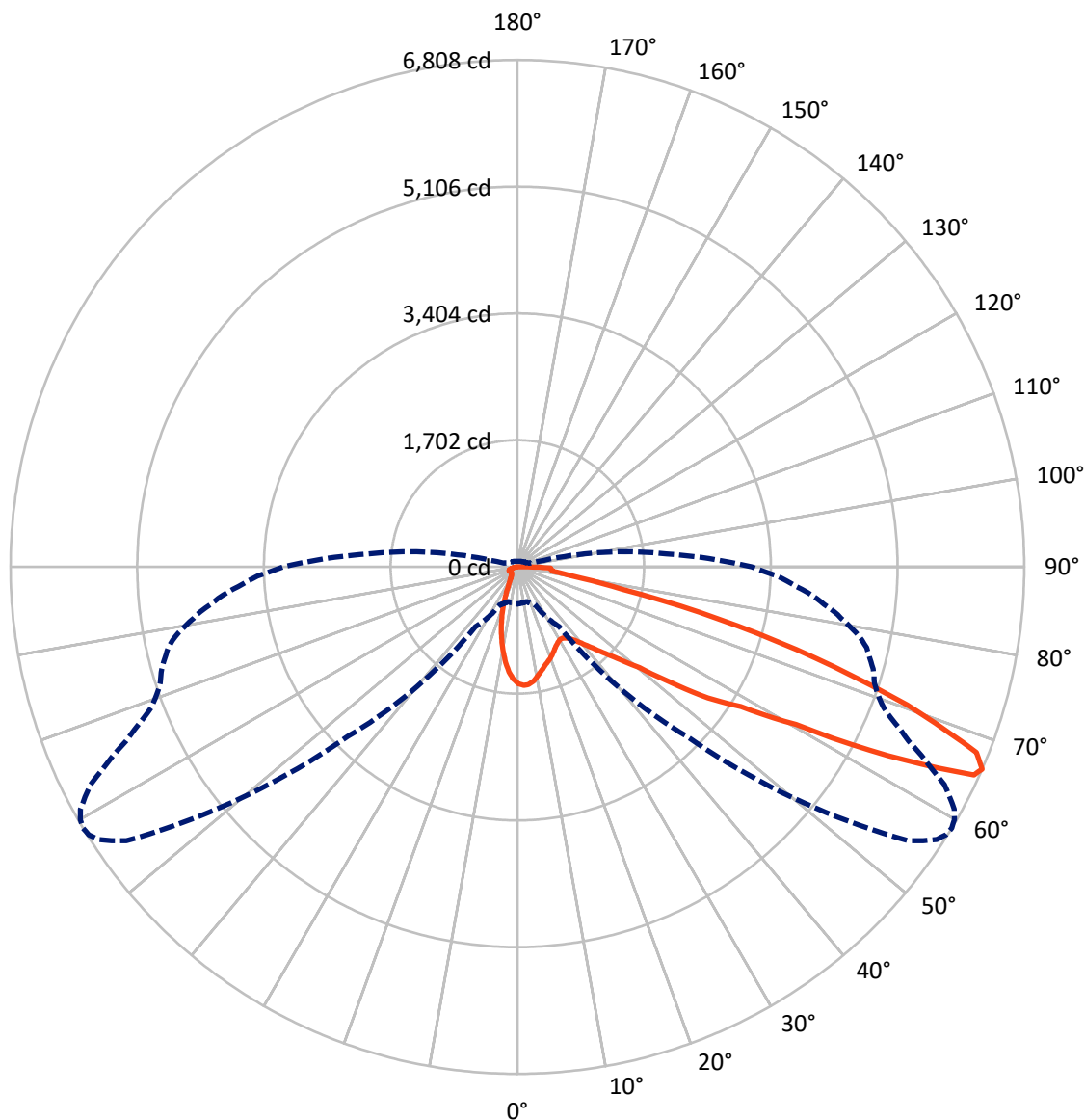


Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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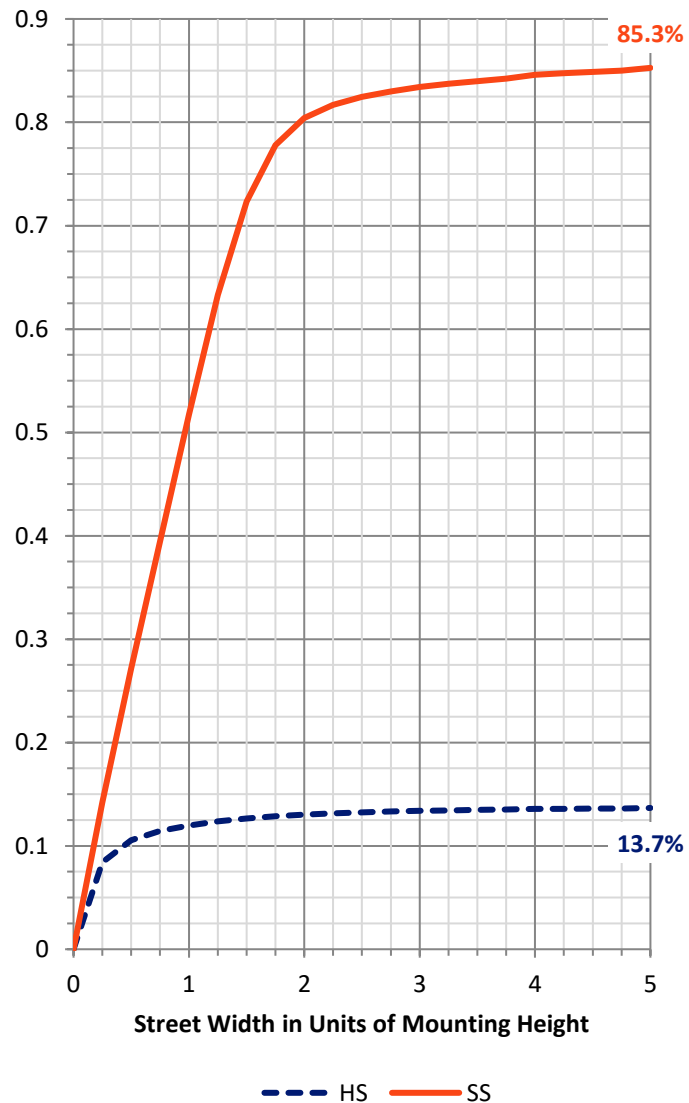
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	801.1	0.4	801.5
	% Fixture	13.9	0.0	13.9
Street Side	Lumens	4970.6	2.1	4972.7
	% Fixture	86.1	0.0	86.1
Total	Lumens	5771.7	2.5	5774.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	2.3
10°-20°	282.5	4.9
20°-30°	354.3	6.1
30°-40°	484.8	8.4
40°-50°	779.8	13.5
50°-60°	1355.1	23.5
60°-70°	1646.5	28.5
70°-80°	614.2	10.6
80°-90°	120.8	2.1
90°-100°	2.5	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°	5771.7	100.0
0°-180°	5774.2	100.0

Coefficient of Utilization



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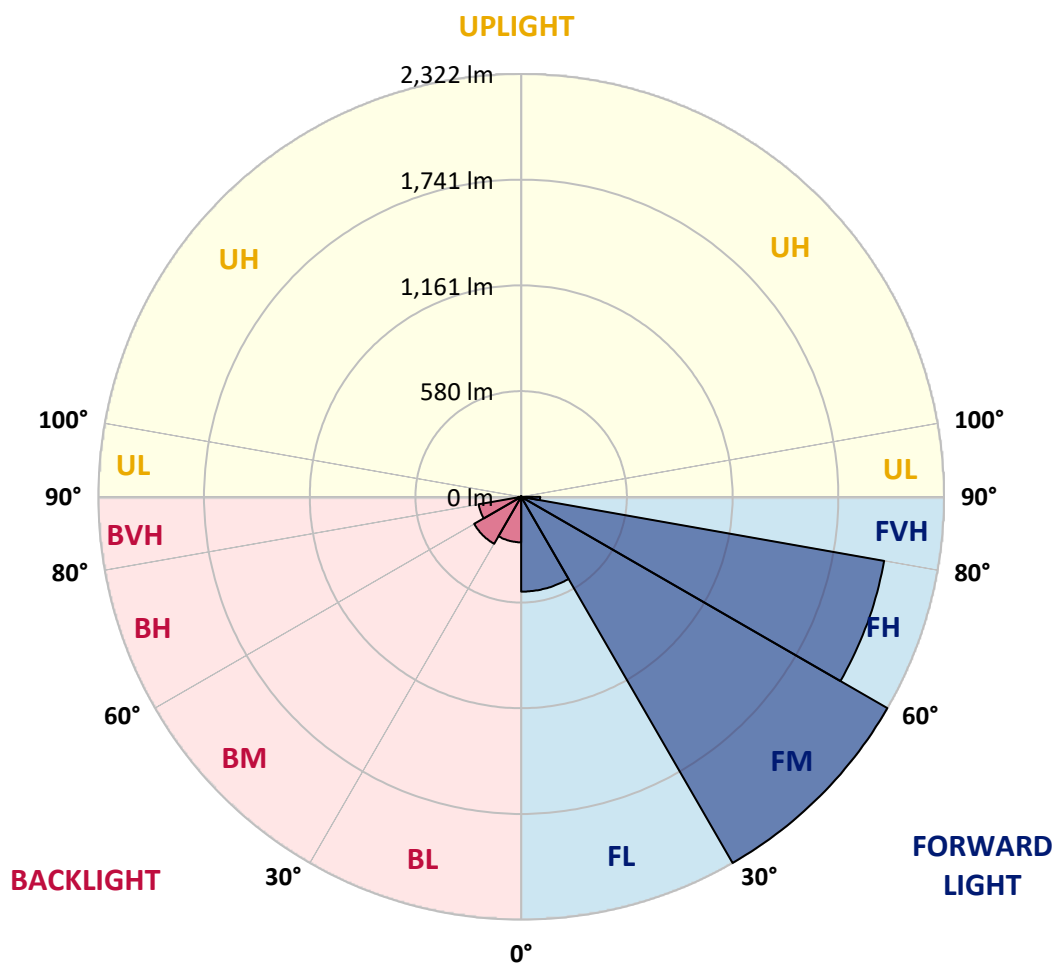
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	520.7	9.0			
FM	(30°-60°)	2321.9	40.2			
FH	(60°-80°)	2023.8	35.0			G2/5000
FVH	(80°-90°)	104.2	1.8			G2/225
BL	(0°-30°)	249.8	4.3	B1/500		
BM	(30°-60°)	297.9	5.2	B1/1000		
BH	(60°-80°)	236.9	4.1	B1/500		G1/500
BVH	(80°-90°)	16.6	0.3			G1/100
UL	(90°-100°)	2.5	0.0		U1/10	
UH	(100°-180°)	0.4	0.0		U1/10	

BUG Rating: B1-U1-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7
2.5°	1609.4	1604.1	1613.8	1610.3	1612.9	1599.7	1597.0	1594.3	1596.1	1593.5	1593.5
5°	1571.3	1568.7	1580.2	1586.4	1591.7	1589.9	1589.0	1589.0	1589.9	1583.7	1584.6
7.5°	1459.8	1458.0	1473.9	1485.5	1511.1	1526.2	1545.7	1546.5	1548.3	1545.7	1551.0
10°	1341.2	1346.5	1360.6	1379.2	1417.3	1440.3	1477.5	1484.6	1487.2	1488.1	1489.0
12.5°	1227.8	1222.5	1240.2	1275.6	1327.0	1364.2	1411.1	1414.6	1419.1	1425.3	1431.5
15°	1126.9	1133.1	1147.3	1184.5	1238.5	1290.7	1351.8	1355.3	1364.2	1369.5	1378.3
17.5°	1057.9	1057.9	1073.8	1108.3	1158.8	1225.2	1302.2	1308.4	1315.5	1322.6	1332.3
20°	1023.4	1023.4	1029.5	1049.9	1094.2	1157.9	1250.9	1257.9	1270.3	1278.3	1291.6
22.5°	1020.7	1019.8	1018.9	1023.4	1049.9	1099.5	1196.0	1205.7	1216.3	1228.7	1240.2
25°	1049.0	1051.7	1041.1	1034.0	1036.6	1059.6	1143.7	1149.1	1169.4	1177.4	1191.6
27.5°	1089.7	1094.2	1085.3	1074.7	1058.8	1043.7	1099.5	1108.3	1121.6	1134.9	1152.6
30°	1148.2	1147.3	1146.4	1139.3	1108.3	1061.4	1086.2	1092.4	1103.9	1114.5	1129.6
32.5°	1211.0	1218.1	1223.4	1219.9	1188.0	1108.3	1104.8	1110.1	1120.7	1126.9	1136.7
35°	1292.5	1296.0	1316.4	1316.4	1284.5	1192.4	1157.0	1161.5	1166.8	1169.4	1176.5
37.5°	1381.9	1394.3	1424.4	1442.1	1392.5	1296.9	1239.4	1239.4	1242.0	1243.8	1248.2
40°	1485.5	1503.2	1544.8	1578.4	1546.5	1427.0	1347.4	1355.3	1352.7	1349.1	1358.9
42.5°	1605.8	1625.3	1675.8	1707.7	1689.1	1583.7	1492.5	1487.2	1495.2	1484.6	1488.1
45°	1745.7	1760.8	1812.1	1845.8	1860.8	1775.8	1682.9	1672.2	1672.2	1649.2	1659.0
47.5°	1871.4	1875.9	1925.4	1984.7	2033.4	2035.2	1904.2	1897.1	1880.3	1865.2	1861.7
50°	1988.3	2001.6	2033.4	2098.0	2199.9	2288.4	2208.7	2186.6	2168.0	2112.2	2129.0
52.5°	2191.0	2216.7	2237.0	2276.0	2396.4	2576.1	2674.3	2639.8	2635.4	2584.9	2573.4
55°	2229.1	2231.7	2299.0	2523.9	2807.1	2936.4	3124.9	3124.1	3138.2	3122.3	3107.2
57.5°	2050.2	2029.0	2141.4	2438.0	3007.2	3671.1	3613.6	3619.8	3601.2	3552.5	3537.5
60°	1597.0	1614.7	1736.0	2114.0	2862.9	4145.6	4525.4	4413.0	4493.5	4367.0	4298.8
62.5°	898.5	878.2	960.5	1358.0	2348.6	4170.4	5767.4	5779.8	5818.8	5747.9	5581.5
65°	579.8	571.0	563.0	687.0	1407.6	3648.1	6454.4	6606.6	6697.8	6735.0	6737.7
66°	498.4	491.3	481.6	562.1	980.9	3214.4	6410.1	6573.0	6718.2	6787.2	6807.6
67.5°	424.0	413.4	411.6	465.6	682.5	2493.8	5987.9	6243.7	6372.1	6550.9	6648.3
70°	324.0	318.7	334.6	401.9	524.1	1173.8	4771.5	5105.3	5326.6	5466.4	5556.7
72.5°	271.8	270.0	292.1	367.4	496.6	665.7	3340.1	3698.6	3929.6	4063.3	4187.2
75°	212.5	214.2	243.4	350.6	494.0	579.8	1940.5	2282.2	2416.7	2627.4	2788.5
77.5°	159.3	157.6	180.6	283.3	481.6	587.8	1008.3	1149.9	1297.8	1404.9	1443.8
80°	111.5	113.3	129.2	194.8	375.3	604.6	628.5	661.3	692.3	726.8	733.9
82.5°	74.4	75.2	95.6	133.7	260.3	577.2	586.9	571.9	548.0	517.9	485.1
85°	45.1	46.9	68.2	90.3	201.8	522.3	607.3	567.4	531.2	491.3	451.5
87.5°	23.0	25.7	40.7	53.1	119.5	257.6	632.1	602.9	553.3	492.2	447.9
90°	6.2	6.2	8.9	13.3	23.9	52.2	159.3	143.4	71.7	136.3	67.3
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

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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

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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7
2.5°	1592.6	1594.3	1592.6	1589.9	1592.6	1589.9	1589.0	1588.1	1589.0	1587.3	1586.4
5°	1584.6	1586.4	1586.4	1581.1	1580.2	1583.7	1578.4	1580.2	1578.4	1576.6	1573.1
7.5°	1546.5	1547.4	1548.3	1544.8	1547.4	1547.4	1545.7	1545.7	1543.9	1544.8	1541.2
10°	1493.4	1497.0	1500.5	1498.7	1497.8	1505.8	1502.3	1504.9	1504.9	1502.3	1503.2
12.5°	1435.9	1442.1	1446.5	1446.5	1450.0	1458.9	1458.0	1459.8	1466.9	1466.9	1464.2
15°	1382.8	1389.0	1396.0	1401.4	1408.4	1414.6	1419.1	1426.1	1429.7	1429.7	1434.1
17.5°	1341.2	1350.0	1358.0	1360.6	1370.4	1381.0	1383.7	1392.5	1397.8	1400.5	1405.8
20°	1300.4	1310.2	1319.9	1328.8	1337.6	1350.0	1356.2	1361.5	1370.4	1375.7	1383.7
22.5°	1252.6	1267.7	1280.1	1290.7	1305.7	1316.4	1328.8	1337.6	1348.2	1356.2	1362.4
25°	1207.5	1227.8	1244.7	1255.3	1275.6	1290.7	1305.7	1319.0	1332.3	1343.8	1352.7
27.5°	1165.9	1188.9	1209.3	1226.1	1248.2	1272.1	1287.2	1309.3	1327.0	1342.9	1353.6
30°	1145.5	1165.0	1186.2	1205.7	1227.8	1257.9	1282.7	1311.1	1333.2	1353.6	1369.5
32.5°	1149.9	1167.6	1186.2	1203.1	1226.1	1259.7	1285.4	1318.1	1350.9	1377.5	1397.8
35°	1185.4	1201.3	1213.7	1228.7	1249.1	1274.8	1302.2	1336.7	1377.5	1412.9	1439.4
37.5°	1259.7	1264.1	1276.5	1288.0	1298.7	1322.6	1348.2	1377.5	1424.4	1461.6	1498.7
40°	1351.8	1363.3	1374.8	1380.1	1392.5	1407.6	1419.1	1450.0	1491.7	1540.3	1581.1
42.5°	1489.0	1493.4	1495.2	1497.0	1501.4	1512.0	1528.8	1557.2	1597.9	1641.3	1686.4
45°	1643.0	1648.3	1653.7	1656.3	1650.1	1656.3	1674.0	1687.3	1727.1	1767.9	1825.4
47.5°	1856.4	1840.4	1832.5	1843.1	1837.8	1851.1	1859.0	1867.0	1914.8	1963.5	2012.2
50°	2129.9	2120.2	2107.8	2108.7	2118.4	2109.6	2114.9	2144.1	2160.0	2200.7	2265.4
52.5°	2567.2	2537.1	2490.2	2469.9	2481.4	2474.3	2476.9	2483.1	2472.5	2510.6	2565.5
55°	3107.2	3068.3	3037.3	3019.6	2954.1	2948.8	2905.4	2889.5	2854.9	2891.2	2878.8
57.5°	3492.3	3467.5	3451.6	3398.5	3368.4	3308.2	3290.5	3269.2	3221.4	3245.3	3266.6
60°	4235.9	4147.4	4117.3	4024.4	3993.4	3935.8	3862.4	3826.1	3801.3	3824.3	3810.1
62.5°	5477.1	5354.0	5330.1	5109.7	5055.7	4922.9	4784.8	4766.2	4688.3	4639.6	4628.1
65°	6689.0	6512.8	6380.9	6140.1	5977.2	5787.8	5577.1	5423.1	5264.6	5184.9	5079.6
66°	6779.3	6709.3	6576.5	6435.8	6198.5	5991.4	5752.4	5585.9	5408.0	5268.1	5177.8
67.5°	6625.2	6588.1	6541.1	6445.5	6296.8	6103.8	5877.2	5664.7	5450.5	5285.8	5141.5
70°	5600.1	5640.8	5693.9	5669.2	5584.2	5508.9	5308.9	5190.2	5029.1	4813.1	4724.6
72.5°	4227.1	4336.0	4298.8	4158.9	4093.4	4041.2	3968.6	3888.9	3657.9	3631.3	3526.8
75°	2719.5	2683.2	2707.1	2537.1	2421.2	2373.4	2200.7	2129.9	1956.4	1844.0	1758.1
77.5°	1433.2	1362.4	1307.5	1157.9	1050.8	987.9	903.8	804.7	652.4	643.6	504.6
80°	664.8	610.8	561.3	509.0	456.8	387.7	336.4	274.4	242.6	208.0	193.9
82.5°	451.5	417.0	386.9	352.3	312.5	264.7	228.4	193.9	165.5	148.7	135.4
85°	409.0	371.8	338.2	294.8	253.2	213.3	174.4	144.3	117.7	102.7	93.8
87.5°	397.5	351.4	316.0	269.1	228.4	187.7	150.5	116.9	91.2	74.4	63.7
90°	50.5	54.0	39.0	37.2	15.9	20.4	15.0	8.9	9.7	7.1	8.0
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: P226988

CATALOG NUMBER: IST-AF-1200-LED-E1-SL3-7030

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: P226988

CATALOG NUMBER: IST-AF-1200-LED-E1-SL3-7030

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7
2.5°	1584.6	1581.9	1584.6	1583.7	1580.2	1581.1	1581.9	1578.4	1576.6	1576.6	1575.8
5°	1570.4	1568.7	1570.4	1569.6	1564.2	1563.4	1563.4	1560.7	1557.2	1554.5	1552.7
7.5°	1536.8	1538.6	1537.7	1535.0	1532.4	1532.4	1529.7	1523.5	1520.0	1516.4	1512.9
10°	1498.7	1498.7	1499.6	1498.7	1494.3	1492.5	1489.0	1485.5	1486.3	1477.5	1470.4
12.5°	1465.1	1465.1	1464.2	1462.4	1459.8	1458.9	1458.9	1448.3	1445.6	1443.0	1435.0
15°	1433.2	1435.0	1435.0	1435.0	1430.6	1430.6	1426.1	1419.1	1419.1	1411.1	1403.1
17.5°	1408.4	1411.1	1410.2	1411.1	1412.0	1406.7	1398.7	1394.3	1389.0	1384.5	1373.9
20°	1387.2	1389.0	1389.8	1389.8	1387.2	1383.7	1376.6	1369.5	1365.9	1357.1	1343.8
22.5°	1367.7	1371.3	1372.1	1372.1	1368.6	1365.9	1358.9	1348.2	1341.2	1330.5	1318.1
25°	1359.7	1364.2	1361.5	1363.3	1359.7	1353.6	1343.8	1335.0	1324.3	1311.1	1297.8
27.5°	1362.4	1368.6	1366.8	1365.9	1361.5	1357.1	1344.7	1334.1	1321.7	1305.7	1288.9
30°	1378.3	1389.0	1384.5	1381.0	1380.1	1369.5	1358.0	1342.9	1328.8	1310.2	1290.7
32.5°	1408.4	1413.7	1414.6	1412.0	1407.6	1398.7	1382.8	1363.3	1347.4	1325.2	1302.2
35°	1458.0	1463.3	1461.6	1461.6	1457.1	1443.0	1423.5	1404.0	1381.9	1357.1	1333.2
37.5°	1527.1	1536.8	1535.0	1531.5	1526.2	1509.4	1494.3	1470.4	1445.6	1412.9	1385.4
40°	1613.8	1628.9	1642.1	1639.5	1627.1	1612.0	1597.9	1570.4	1545.7	1509.4	1479.3
42.5°	1730.7	1751.0	1767.9	1780.2	1774.9	1755.5	1730.7	1719.2	1683.8	1646.6	1615.6
45°	1880.3	1922.8	1937.8	1952.9	1952.9	1940.5	1935.2	1912.1	1875.0	1825.4	1796.2
47.5°	2077.7	2134.3	2151.2	2176.8	2191.9	2178.6	2168.9	2129.9	2105.1	2037.0	2029.9
50°	2317.6	2374.2	2420.3	2450.4	2446.0	2457.5	2434.4	2412.3	2377.8	2322.0	2302.5
52.5°	2623.9	2669.0	2710.6	2728.3	2746.9	2744.3	2739.0	2723.9	2680.5	2650.4	2600.9
55°	2938.2	2975.3	3025.8	3055.0	3078.9	3074.5	3054.1	3017.8	3025.8	2962.9	2935.5
57.5°	3295.8	3336.5	3391.4	3418.8	3429.5	3483.5	3470.2	3465.8	3450.7	3428.6	3400.3
60°	3911.0	3922.6	3967.7	4036.8	4121.7	4104.9	4126.2	4140.3	4151.0	4101.4	4097.8
62.5°	4644.0	4658.2	4697.2	4711.3	4723.7	4725.5	4697.2	4697.2	4648.5	4584.7	4535.2
65°	5044.2	5015.0	4988.4	4973.4	4940.6	4911.4	4868.9	4811.4	4729.0	4630.8	4542.2
66°	5101.7	5042.4	5007.9	4969.8	4917.6	4863.6	4813.1	4734.3	4637.8	4521.0	4404.1
67.5°	5045.9	4964.5	4883.9	4828.2	4755.6	4658.2	4569.7	4477.6	4386.4	4226.2	4117.3
70°	4536.9	4439.5	4351.0	4228.9	4113.8	4018.2	3865.9	3705.7	3573.8	3405.6	3298.5
72.5°	3369.3	3254.2	3139.1	2967.4	2800.1	2775.3	2584.1	2395.5	2294.6	2159.1	2050.2
75°	1664.3	1519.1	1312.8	1220.8	1087.1	1021.6	985.3	849.0	816.2	682.5	680.8
77.5°	470.1	403.7	358.5	312.5	293.0	278.9	230.2	220.4	200.1	196.5	185.0
80°	177.9	168.2	163.8	159.3	154.9	152.3	150.5	143.4	139.9	134.6	131.9
82.5°	128.4	124.8	116.9	114.2	110.7	105.3	104.5	100.0	97.4	92.1	90.3
85°	86.8	82.3	77.9	73.5	71.7	70.8	68.2	66.4	64.6	62.0	61.1
87.5°	58.4	54.0	48.7	46.9	46.0	46.9	47.8	46.0	45.1	43.4	42.5
90°	7.1	9.7	8.9	8.9	10.6	8.9	8.9	9.7	8.9	8.9	8.0
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: P226988
CATALOG NUMBER: IST-AF-1200-LED-E1-SL3-7030

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°



NUMBER: P226988
NUMBER: IST-AF-1200-LED-E1-SL3-7030

REPORT NUMBER: P
CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBU'

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	82°	
1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	110°	0.0
1574.0	1571.3	1572.2	1568.7	1567.8	1569.6	1570.4	1570.4	1567.8	1551.8	1533.3	112.5°	0.0
1551.0	1545.7	1544.8	1542.1	1537.7	1543.0	1540.3	1535.9	1530.6	1512.0	1475.7	115°	0.0
1508.5	1504.9	1500.5	1497.0	1494.3	1492.5	1491.7	1487.2	1477.5	1443.0	1381.9	117.5°	0.0
1467.7	1463.3	1458.0	1450.0	1446.5	1441.2	1441.2	1430.6	1423.5	1380.1	1289.8	120°	0.0
1427.9	1419.9	1417.3	1412.0	1402.2	1397.8	1391.6	1381.0	1370.4	1318.1	1199.5	122.5°	0.0
1397.8	1389.8	1378.3	1374.8	1364.2	1354.4	1346.5	1332.3	1320.8	1251.7	1104.8	125°	0.0
1365.1	1358.9	1346.5	1338.5	1327.0	1315.5	1302.2	1284.5	1276.5	1188.9	1014.5	127.5°	0.0
1338.5	1324.3	1310.2	1303.1	1288.9	1275.6	1262.4	1241.1	1225.2	1126.9	918.9	130°	0.0
1307.5	1295.1	1280.1	1267.7	1248.2	1233.2	1218.1	1196.0	1176.5	1064.1	822.4	132.5°	0.0
1286.3	1268.6	1252.6	1238.5	1216.3	1198.6	1177.4	1153.5	1134.0	1003.9	716.2	135°	0.0
1273.9	1256.2	1235.8	1218.1	1192.4	1172.1	1149.1	1122.5	1097.7	955.2	616.1	137.5°	0.0
1270.3	1249.1	1227.8	1205.7	1179.2	1153.5	1126.0	1099.5	1067.6	908.3	507.2	140°	0.0
1281.0	1255.3	1231.4	1204.8	1173.8	1144.6	1117.2	1082.7	1050.8	867.5	400.1	142.5°	0.0
1310.2	1279.2	1251.7	1222.5	1187.1	1155.3	1122.5	1083.5	1048.1	839.2	306.3	145°	0.0
1356.2	1327.0	1295.1	1265.9	1225.2	1189.8	1153.5	1111.9	1069.4	827.7	231.1	147.5°	0.0
1449.2	1410.2	1377.5	1346.5	1299.6	1263.3	1221.6	1171.2	1123.4	838.3	193.0	150°	0.0
1579.3	1530.6	1500.5	1473.1	1414.6	1374.8	1327.0	1269.5	1215.5	868.4	170.0	152.5°	0.0
1759.0	1721.8	1667.8	1625.3	1566.0	1521.7	1468.6	1399.6	1339.4	910.9	158.5	155°	0.0
1983.9	1935.2	1882.0	1838.7	1774.0	1697.0	1641.3	1558.0	1489.9	977.3	153.1	157.5°	0.0
2259.2	2200.7	2129.0	2092.7	2003.3	1943.1	1868.8	1779.4	1692.6	1080.0	155.8	160°	0.0
2558.4	2495.5	2439.8	2370.7	2289.3	2222.0	2151.2	2056.4	1947.6	1274.8	166.4	162.5°	0.0
2874.4	2833.7	2780.6	2691.2	2646.9	2561.9	2471.6	2367.2	2288.4	1527.9	192.1	165°	0.0
3334.7	3290.5	3284.3	3196.6	3129.4	3052.4	2981.5	2894.8	2801.8	1977.7	252.3	167.5°	0.0
4043.0	3996.9	3944.7	3876.5	3796.9	3701.2	3613.6	3496.7	3393.2	2428.2	280.6	170°	0.0
4462.6	4377.6	4283.7	4180.2	4064.2	3945.6	3827.8	3678.2	3527.7	2455.7	253.2	172.5°	0.0
4427.2	4321.8	4202.3	4061.5	3939.4	3793.3	3666.7	3473.7	3336.5	2186.6	206.3	175°	0.0
4296.1	4151.8	4039.4	3910.2	3757.0	3626.0	3492.3	3302.0	3145.3	2005.1	188.6	177.5°	0.0
3960.6	3837.6	3681.8	3557.8	3444.5	3287.8	3162.1	2984.2	2876.2	1738.6	169.1	180°	0.0
3165.7	2995.7	2863.8	2767.3	2638.9	2497.3	2385.8	2236.1	2140.5	1150.8	146.1		
1844.0	1801.5	1653.7	1570.4	1492.5	1377.5	1288.9	1217.2	1091.5	557.7	129.2		
568.3	528.5	523.2	444.4	470.1	401.9	391.3	355.9	355.9	214.2	101.8		
181.5	177.9	170.9	161.1	157.6	157.6	153.1	152.3	145.2	115.1	76.1		
128.4	125.7	123.1	120.4	118.6	119.5	116.0	114.2	112.4	83.2	60.2		
88.5	85.9	80.6	80.6	78.8	77.9	78.8	75.2	74.4	58.4	50.5		
60.2	59.3	58.4	57.5	56.7	55.8	54.9	52.2	50.5	40.7	35.4		
39.8	33.6	32.8	28.3	27.4	26.6	24.8	26.6	29.2	29.2	23.0		
8.9	8.0	8.9	8.9	7.1	8.0	8.0	6.2	6.2	8.9	8.0		
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	0.0	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		

'226988
IST-AF-1200-LED-E1-SL3-7030

REPORT NUMBER: P226988
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°	1568.7	1568.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	1517.3	1503.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	1436.8	1404.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	1327.9	1265.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	1203.1	1113.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	1073.8	959.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	953.4	802.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	826.8	640.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	705.5	483.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	568.3	339.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	417.0	246.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	297.4	196.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	222.2	165.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	177.9	143.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	151.4	130.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	135.4	121.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	126.6	116.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	121.3	112.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	118.6	109.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	116.9	106.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	115.1	106.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	116.0	108.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	120.4	108.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	127.5	108.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	132.8	109.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	134.6	113.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	132.8	115.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	131.0	115.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	128.4	113.3
										70°	122.2	106.2
										72.5°	109.8	95.6
										75°	93.8	77.0
										77.5°	76.1	62.0
										80°	56.7	46.9
										82.5°	41.6	36.3
										85°	29.2	25.7
										87.5°	17.7	15.9
										90°	4.4	4.4
										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

00-LED-E1-SL3-7030

REPORT NUMBER: P226988

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

tinued):

135°	145°	155°	165°	175°	180°
1568.7	1568.7	1568.7	1568.7	1568.7	1568.7
1493.4	1492.5	1470.4	1466.0	1450.9	1458.9
1366.8	1351.8	1311.9	1304.0	1287.2	1282.7
1215.5	1173.8	1142.0	1106.6	1072.9	1089.7
1038.4	968.5	898.5	852.5	833.9	827.7
870.2	744.5	656.9	566.6	534.7	546.2
666.6	523.2	406.3	354.1	324.0	318.7
470.1	335.5	281.5	268.2	262.0	262.0
318.7	255.8	235.5	229.3	229.3	230.2
242.6	215.1	206.3	207.1	210.7	211.6
201.0	190.3	185.9	192.1	199.2	200.1
173.5	170.9	171.7	179.7	186.8	187.7
152.3	154.9	158.5	165.5	171.7	173.5
137.2	141.6	144.3	148.7	152.3	153.1
126.6	131.9	131.0	133.7	136.3	137.2
120.4	123.1	120.4	122.2	122.2	123.9
115.1	116.0	111.5	112.4	114.2	114.2
109.8	108.9	104.5	106.2	108.9	109.8
104.5	102.7	99.1	102.7	107.1	108.0
100.0	98.3	96.5	100.9	106.2	107.1
98.3	96.5	94.7	100.9	106.2	107.1
98.3	96.5	94.7	99.1	104.5	105.3
99.1	97.4	93.8	98.3	101.8	102.7
100.0	98.3	92.1	94.7	96.5	97.4
100.0	96.5	90.3	91.2	91.2	92.1
98.3	93.8	86.8	86.8	85.9	85.9
98.3	90.3	83.2	81.4	79.7	79.7
97.4	89.4	82.3	79.7	77.0	77.0
95.6	87.6	80.6	77.0	74.4	74.4
89.4	84.1	76.1	72.6	69.9	69.0
79.7	77.0	70.8	68.2	65.5	64.6
67.3	68.2	64.6	62.9	60.2	59.3
56.7	58.4	56.7	55.8	54.0	53.1
45.1	48.7	46.9	46.9	47.8	46.0
34.5	39.0	37.2	39.0	40.7	38.1
23.9	28.3	28.3	29.2	30.1	28.3
15.0	18.6	17.7	18.6	18.6	17.7
3.5	6.2	3.5	5.3	4.4	3.5
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
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

-SL3-7030

[illegible]

(END OF REPORT)