

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: P227138

Luminaire Tested: **IST-AF-1000-LED-E1-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35947)
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-SL4
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5539.1 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U1 - G2

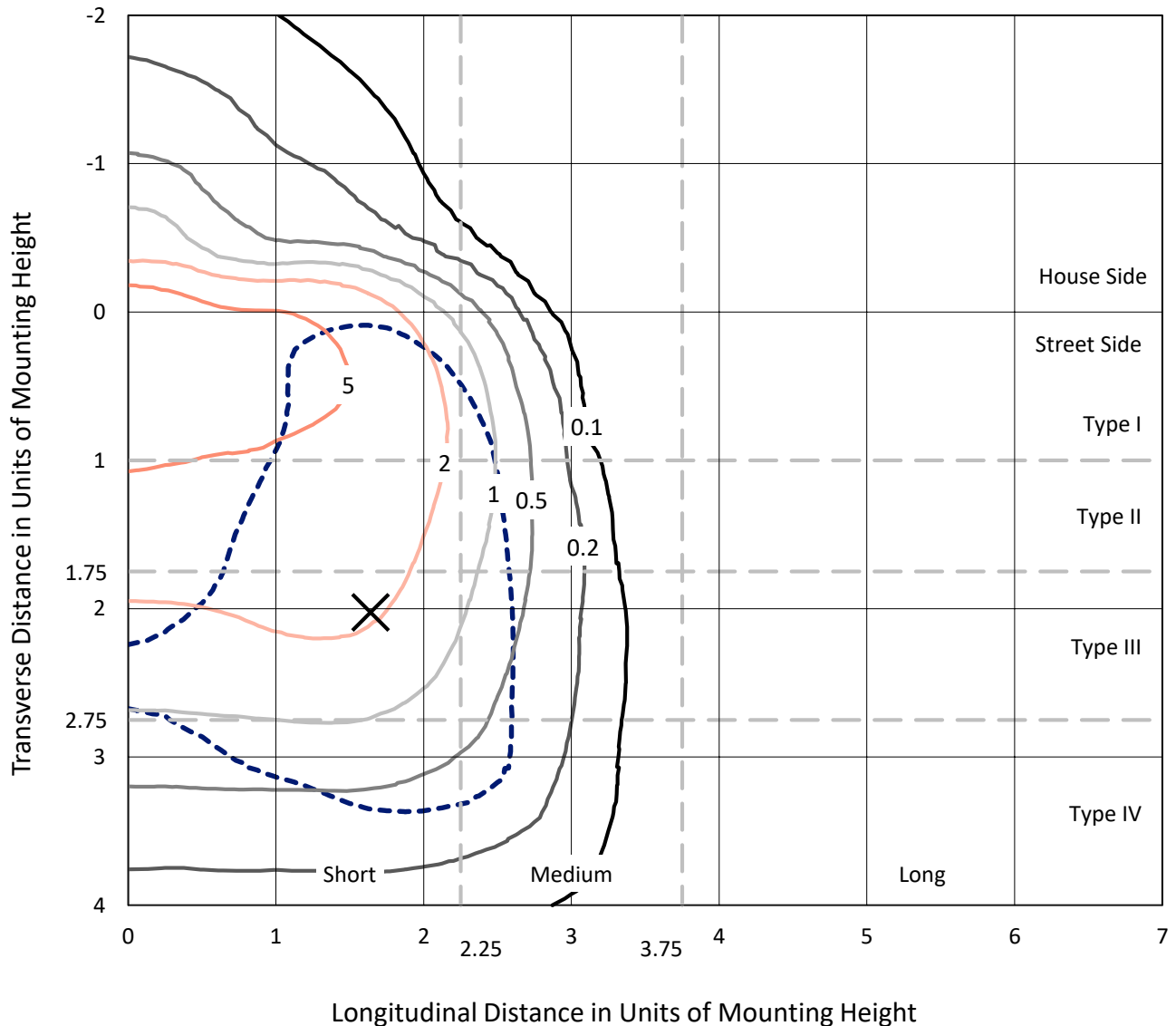
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P227138
 CATALOG NUMBER: IST-AF-1000-LED-E1-SL4

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

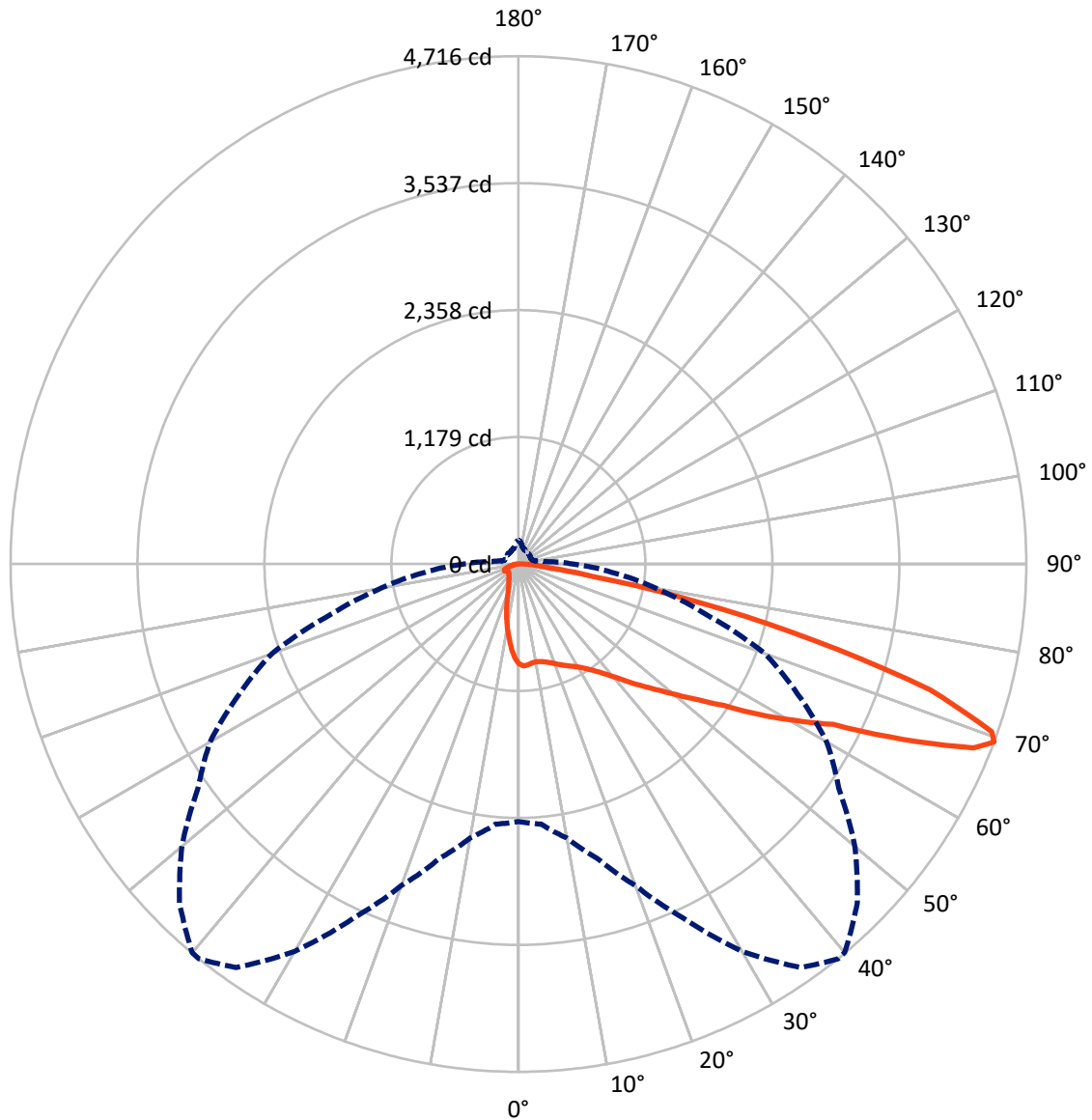


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P227138

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P227138

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 700.8 | 0.2 | 701.0 |
| | % Fixture | 12.7 | 0.0 | 12.7 |
| Street Side | Lumens | 4836.8 | 1.4 | 4838.1 |
| | % Fixture | 87.3 | 0.0 | 87.3 |
| Total | Lumens | 5537.6 | 1.5 | 5539.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.1 | 1.4 |
| 10°-20° | 201.9 | 3.6 |
| 20°-30° | 314.3 | 5.7 |
| 30°-40° | 475.0 | 8.6 |
| 40°-50° | 760.2 | 13.7 |
| 50°-60° | 1194.7 | 21.6 |
| 60°-70° | 1608.6 | 29.0 |
| 70°-80° | 797.9 | 14.4 |
| 80°-90° | 104.8 | 1.9 |
| 90°-100° | 1.5 | 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° | 5537.6 | 100.0 |
| 0°-180° | 5539.1 | 100.0 |



REPORT NUMBER: P227138

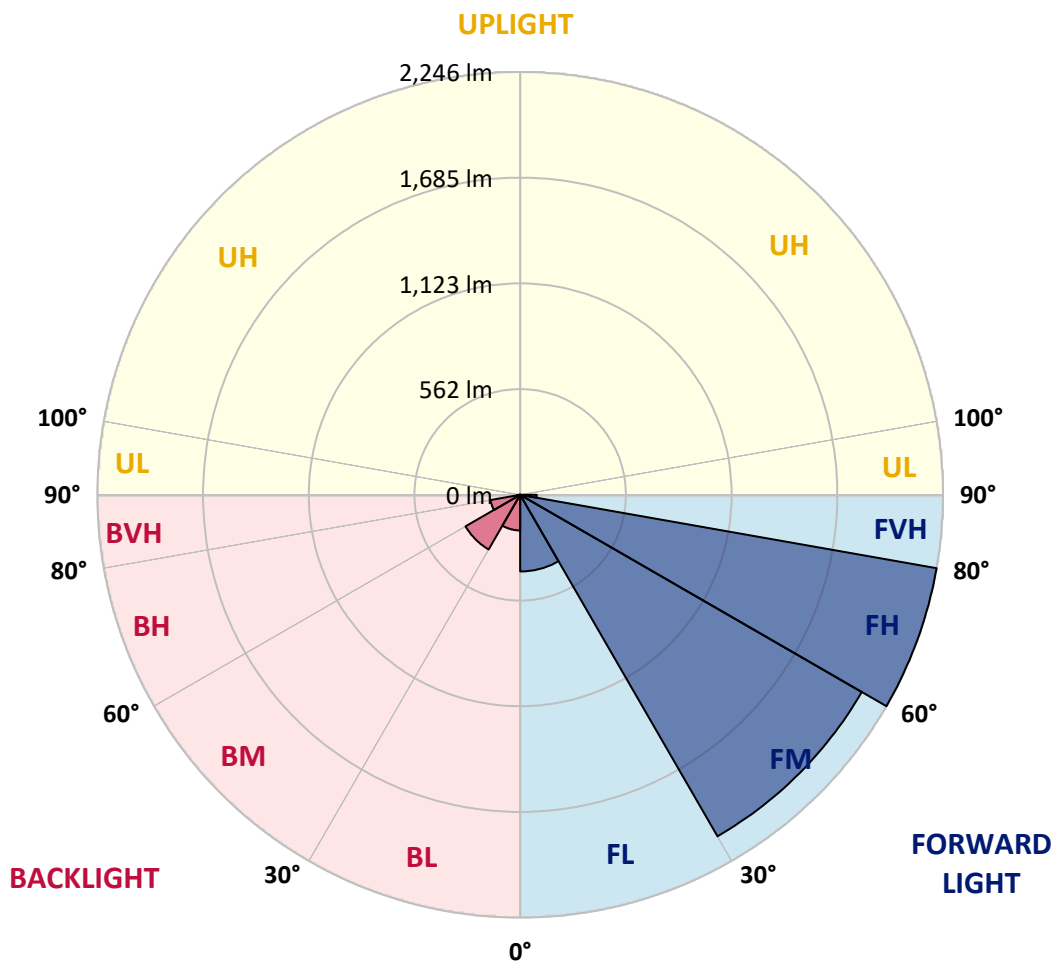
CATALOG NUMBER: IST-AF-1000-LED-E1-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 407.3 | 7.4 | | | |
| FM | (30°-60°) | 2095.1 | 37.8 | | | |
| FH | (60°-80°) | 2246.2 | 40.6 | | | G2/5000 |
| FVH | (80°-90°) | 88.3 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 189.1 | 3.4 | B1/500 | | |
| BM | (30°-60°) | 334.8 | 6.0 | B1/1000 | | |
| BH | (60°-80°) | 160.4 | 2.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 16.5 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 1.5 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 0.2 | 0.0 | | U1/10 | |

BUG Rating: B1-U1-G2

Type IV Short





REPORT NUMBER: P227138

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 39° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 |
| 2.5° | 950.2 | 951.1 | 951.1 | 952.1 | 948.5 | 948.5 | 949.3 | 945.7 | 947.6 | 946.6 | 942.1 |
| 5° | 952.1 | 952.9 | 952.1 | 952.9 | 948.5 | 946.6 | 943.1 | 938.6 | 940.3 | 939.5 | 933.1 |
| 7.5° | 947.6 | 948.5 | 946.6 | 947.6 | 942.1 | 938.6 | 933.1 | 929.6 | 926.9 | 926.0 | 917.9 |
| 10° | 937.6 | 940.3 | 936.7 | 939.5 | 935.0 | 931.4 | 928.6 | 925.1 | 923.2 | 922.4 | 913.4 |
| 12.5° | 923.2 | 925.1 | 926.0 | 929.6 | 929.6 | 930.5 | 930.5 | 927.7 | 928.6 | 927.7 | 920.6 |
| 15° | 909.8 | 916.1 | 922.4 | 926.0 | 933.1 | 937.6 | 941.2 | 940.3 | 943.1 | 942.1 | 937.6 |
| 17.5° | 909.8 | 915.1 | 926.0 | 937.6 | 951.1 | 957.4 | 962.8 | 962.8 | 963.7 | 961.9 | 954.7 |
| 20° | 913.4 | 923.2 | 941.2 | 961.1 | 977.2 | 989.8 | 993.4 | 992.5 | 988.9 | 988.9 | 976.3 |
| 22.5° | 943.1 | 949.3 | 969.1 | 990.7 | 1013.1 | 1025.7 | 1026.6 | 1024.0 | 1016.7 | 1015.0 | 999.6 |
| 25° | 985.3 | 992.5 | 1010.5 | 1038.3 | 1055.4 | 1065.3 | 1062.6 | 1053.6 | 1046.4 | 1040.1 | 1024.0 |
| 27.5° | 1050.9 | 1056.3 | 1074.3 | 1093.1 | 1103.0 | 1106.6 | 1095.9 | 1083.3 | 1075.2 | 1072.5 | 1050.9 |
| 30° | 1118.4 | 1125.6 | 1139.9 | 1151.6 | 1159.7 | 1148.9 | 1131.8 | 1117.5 | 1110.2 | 1108.5 | 1088.6 |
| 32.5° | 1201.0 | 1202.0 | 1211.8 | 1214.5 | 1215.5 | 1197.5 | 1174.0 | 1160.6 | 1157.9 | 1154.3 | 1139.1 |
| 35° | 1276.5 | 1281.0 | 1279.3 | 1278.4 | 1270.3 | 1247.8 | 1228.1 | 1220.0 | 1217.2 | 1216.3 | 1203.7 |
| 37.5° | 1344.0 | 1351.2 | 1346.7 | 1338.6 | 1328.7 | 1310.7 | 1290.0 | 1281.0 | 1290.0 | 1284.6 | 1287.4 |
| 40° | 1409.6 | 1409.6 | 1404.2 | 1399.7 | 1388.0 | 1371.0 | 1363.8 | 1364.6 | 1379.0 | 1382.6 | 1386.2 |
| 42.5° | 1466.3 | 1465.4 | 1460.0 | 1456.4 | 1454.5 | 1451.0 | 1447.4 | 1464.5 | 1492.3 | 1497.7 | 1505.8 |
| 45° | 1528.3 | 1527.4 | 1506.7 | 1513.9 | 1526.4 | 1529.2 | 1541.8 | 1581.3 | 1615.4 | 1618.2 | 1635.3 |
| 47.5° | 1588.5 | 1581.3 | 1561.5 | 1568.7 | 1604.7 | 1623.5 | 1644.3 | 1699.9 | 1747.6 | 1757.5 | 1805.2 |
| 50° | 1651.5 | 1644.3 | 1622.7 | 1636.2 | 1686.5 | 1721.5 | 1770.1 | 1847.4 | 1913.0 | 1926.5 | 1988.5 |
| 52.5° | 1717.0 | 1716.2 | 1699.1 | 1719.8 | 1781.8 | 1852.8 | 1929.2 | 2016.4 | 2096.4 | 2113.5 | 2205.2 |
| 55° | 1796.2 | 1791.7 | 1784.5 | 1809.7 | 1897.8 | 1993.0 | 2112.6 | 2231.3 | 2318.5 | 2349.1 | 2441.7 |
| 57.5° | 1885.2 | 1883.4 | 1884.3 | 1936.4 | 2042.5 | 2187.3 | 2333.8 | 2493.7 | 2637.7 | 2659.2 | 2745.5 |
| 60° | 1962.5 | 1966.1 | 1986.8 | 2068.6 | 2201.6 | 2397.6 | 2603.5 | 2820.2 | 2947.7 | 2970.2 | 3054.7 |
| 62.5° | 2056.8 | 2077.6 | 2123.4 | 2226.8 | 2383.2 | 2620.6 | 2887.6 | 3116.8 | 3281.3 | 3327.1 | 3487.1 |
| 65° | 2283.4 | 2299.6 | 2385.0 | 2510.0 | 2709.6 | 3013.4 | 3320.0 | 3653.5 | 3925.0 | 3966.3 | 4103.9 |
| 67.5° | 2448.8 | 2490.2 | 2624.2 | 2828.3 | 3116.8 | 3505.1 | 3925.9 | 4329.5 | 4558.8 | 4577.6 | 4481.4 |
| 69° | 2391.4 | 2425.5 | 2583.7 | 2830.0 | 3177.9 | 3630.1 | 4153.3 | 4574.9 | 4716.1 | 4712.5 | 4450.9 |
| 70° | 2303.2 | 2334.7 | 2509.1 | 2748.3 | 3126.6 | 3615.7 | 4157.0 | 4576.8 | 4662.2 | 4629.8 | 4330.5 |
| 72.5° | 1929.2 | 1957.1 | 2120.7 | 2370.6 | 2737.4 | 3222.9 | 3732.6 | 4019.4 | 4001.4 | 3974.5 | 3480.0 |
| 75° | 1204.6 | 1202.9 | 1345.8 | 1490.5 | 1775.5 | 2266.3 | 2645.8 | 2875.8 | 2839.0 | 2818.3 | 2234.0 |
| 77.5° | 450.4 | 481.8 | 534.0 | 689.6 | 820.8 | 1086.0 | 1392.5 | 1648.8 | 1719.8 | 1628.9 | 1202.9 |
| 80° | 234.7 | 251.7 | 285.9 | 340.7 | 392.0 | 448.6 | 539.4 | 694.0 | 718.3 | 669.7 | 485.5 |
| 82.5° | 185.2 | 205.8 | 240.0 | 286.7 | 322.7 | 301.2 | 284.1 | 294.0 | 292.2 | 278.7 | 247.2 |
| 85° | 140.2 | 164.5 | 220.2 | 267.9 | 319.2 | 269.6 | 214.8 | 187.9 | 167.3 | 168.1 | 178.9 |
| 87.5° | 70.1 | 90.8 | 173.5 | 233.7 | 277.8 | 178.9 | 140.2 | 108.7 | 90.8 | 87.2 | 116.8 |
| 90° | 21.6 | 21.6 | 35.1 | 45.8 | 62.9 | 31.5 | 30.6 | 23.3 | 17.1 | 17.1 | 27.0 |
| 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: P227138

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 39° | 40° | 45° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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: P227138

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 |
| 2.5° | 938.6 | 938.6 | 936.7 | 935.9 | 933.1 | 929.6 | 926.9 | 922.4 | 919.6 | 915.1 | 909.8 |
| 5° | 926.9 | 923.2 | 921.5 | 917.9 | 912.5 | 908.0 | 902.5 | 896.3 | 889.1 | 880.1 | 870.2 |
| 7.5° | 911.6 | 906.1 | 899.9 | 898.0 | 891.8 | 886.4 | 880.1 | 871.1 | 861.2 | 845.1 | 832.5 |
| 10° | 905.3 | 899.9 | 894.5 | 890.9 | 882.8 | 876.5 | 869.3 | 857.6 | 845.1 | 823.5 | 800.0 |
| 12.5° | 911.6 | 906.1 | 900.8 | 894.5 | 887.3 | 880.1 | 870.2 | 855.8 | 838.7 | 810.9 | 782.1 |
| 15° | 926.9 | 921.5 | 912.5 | 906.1 | 896.3 | 890.0 | 876.5 | 860.3 | 835.1 | 801.0 | 763.2 |
| 17.5° | 944.0 | 935.9 | 927.7 | 917.9 | 908.9 | 900.8 | 886.4 | 865.7 | 834.2 | 793.8 | 745.2 |
| 20° | 960.1 | 951.1 | 938.6 | 931.4 | 922.4 | 910.6 | 895.4 | 870.2 | 832.5 | 779.4 | 726.4 |
| 22.5° | 979.0 | 967.3 | 953.8 | 945.7 | 938.6 | 928.6 | 910.6 | 878.3 | 832.5 | 771.3 | 704.8 |
| 25° | 1003.3 | 988.0 | 974.5 | 966.4 | 961.9 | 954.7 | 933.1 | 897.2 | 838.7 | 766.8 | 686.8 |
| 27.5° | 1032.1 | 1012.3 | 1000.5 | 995.2 | 994.3 | 988.9 | 967.3 | 922.4 | 853.1 | 766.8 | 669.7 |
| 30° | 1066.2 | 1049.1 | 1033.8 | 1033.8 | 1044.6 | 1041.1 | 1016.7 | 961.1 | 875.6 | 769.6 | 657.1 |
| 32.5° | 1113.9 | 1096.8 | 1087.8 | 1096.8 | 1108.5 | 1112.0 | 1084.2 | 1015.9 | 912.5 | 782.1 | 644.6 |
| 35° | 1184.0 | 1173.2 | 1166.9 | 1180.4 | 1203.7 | 1212.7 | 1178.5 | 1097.6 | 966.4 | 806.4 | 637.4 |
| 37.5° | 1276.5 | 1268.5 | 1260.4 | 1283.8 | 1327.8 | 1345.8 | 1296.4 | 1192.0 | 1043.7 | 846.8 | 633.8 |
| 40° | 1382.6 | 1383.5 | 1392.5 | 1439.3 | 1481.5 | 1519.3 | 1463.5 | 1335.0 | 1149.8 | 904.4 | 637.4 |
| 42.5° | 1508.5 | 1518.4 | 1549.0 | 1613.7 | 1695.5 | 1725.2 | 1671.2 | 1507.6 | 1282.0 | 973.6 | 646.4 |
| 45° | 1665.0 | 1691.0 | 1743.1 | 1839.4 | 1938.2 | 1984.1 | 1907.7 | 1725.2 | 1448.3 | 1084.2 | 671.6 |
| 47.5° | 1831.3 | 1888.8 | 1976.9 | 2093.8 | 2208.9 | 2238.5 | 2144.1 | 1922.0 | 1610.9 | 1182.1 | 710.2 |
| 50° | 2044.3 | 2114.4 | 2202.5 | 2342.8 | 2465.0 | 2483.0 | 2358.0 | 2104.5 | 1753.0 | 1267.5 | 747.1 |
| 52.5° | 2243.0 | 2338.3 | 2450.7 | 2613.3 | 2737.4 | 2714.9 | 2553.1 | 2267.3 | 1865.4 | 1326.1 | 767.7 |
| 55° | 2514.5 | 2613.3 | 2740.1 | 2882.2 | 3005.3 | 2951.4 | 2730.3 | 2405.7 | 1955.3 | 1369.1 | 774.1 |
| 57.5° | 2824.6 | 2900.2 | 3024.1 | 3169.8 | 3250.7 | 3158.2 | 2904.7 | 2540.5 | 2040.7 | 1370.0 | 724.6 |
| 60° | 3129.4 | 3217.5 | 3354.2 | 3497.1 | 3542.0 | 3382.0 | 3026.0 | 2561.3 | 1956.2 | 1222.6 | 579.8 |
| 62.5° | 3580.6 | 3669.6 | 3738.9 | 3762.3 | 3681.4 | 3359.5 | 2884.8 | 2342.8 | 1686.5 | 964.6 | 410.8 |
| 65° | 4085.1 | 3984.3 | 3850.4 | 3724.5 | 3504.2 | 3015.2 | 2487.5 | 1924.8 | 1309.0 | 644.6 | 283.2 |
| 67.5° | 4217.1 | 3910.6 | 3619.3 | 3338.8 | 2928.0 | 2401.2 | 1876.2 | 1353.9 | 839.6 | 366.8 | 192.4 |
| 69° | 4079.6 | 3631.9 | 3307.4 | 2862.4 | 2438.1 | 1797.1 | 1292.7 | 867.6 | 501.7 | 255.3 | 160.9 |
| 70° | 3827.9 | 3362.2 | 2922.6 | 2446.2 | 1888.8 | 1372.8 | 859.5 | 568.1 | 327.2 | 186.1 | 144.7 |
| 72.5° | 2888.4 | 2309.5 | 1780.0 | 1156.1 | 704.8 | 391.1 | 275.1 | 196.9 | 155.5 | 136.7 | 124.1 |
| 75° | 1670.3 | 1112.0 | 728.1 | 388.3 | 230.2 | 170.8 | 149.2 | 133.1 | 123.2 | 118.7 | 107.9 |
| 77.5° | 704.8 | 440.5 | 298.5 | 218.5 | 154.7 | 132.2 | 115.1 | 106.1 | 105.2 | 102.5 | 92.6 |
| 80° | 320.9 | 275.1 | 234.7 | 164.5 | 117.7 | 100.7 | 88.1 | 86.3 | 88.1 | 85.4 | 75.5 |
| 82.5° | 238.2 | 234.7 | 196.0 | 126.7 | 89.9 | 67.4 | 54.8 | 57.5 | 64.8 | 70.1 | 61.2 |
| 85° | 198.7 | 198.7 | 164.5 | 94.4 | 59.3 | 43.2 | 42.2 | 47.7 | 53.9 | 58.4 | 49.4 |
| 87.5° | 182.5 | 175.3 | 94.4 | 48.6 | 34.2 | 27.8 | 26.1 | 23.3 | 23.3 | 40.4 | 34.2 |
| 90° | 18.0 | 8.1 | 4.5 | 3.6 | 4.5 | 3.6 | 5.4 | 4.5 | 4.5 | 4.5 | 4.5 |
| 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: P227138

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 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: P227138

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 |
| 2.5° | 905.3 | 901.7 | 892.7 | 890.9 | 888.2 | 884.6 | 883.7 | 879.2 | 870.2 | 868.4 | 869.3 |
| 5° | 863.9 | 849.6 | 839.6 | 831.6 | 825.3 | 809.1 | 802.8 | 795.7 | 783.1 | 779.4 | 774.1 |
| 7.5° | 815.4 | 798.3 | 778.6 | 764.1 | 747.1 | 730.0 | 716.5 | 699.4 | 685.9 | 677.8 | 663.5 |
| 10° | 777.6 | 754.2 | 728.1 | 699.4 | 677.0 | 650.9 | 633.8 | 614.0 | 592.4 | 572.6 | 558.2 |
| 12.5° | 748.9 | 716.5 | 678.7 | 644.6 | 612.2 | 584.3 | 553.8 | 525.9 | 498.9 | 472.0 | 448.6 |
| 15° | 725.5 | 685.1 | 637.4 | 594.2 | 554.6 | 513.3 | 479.2 | 440.5 | 406.3 | 383.0 | 353.3 |
| 17.5° | 700.3 | 648.1 | 591.6 | 541.1 | 490.0 | 446.8 | 403.7 | 363.1 | 330.8 | 300.2 | 276.0 |
| 20° | 669.7 | 606.8 | 545.6 | 487.2 | 428.8 | 379.4 | 335.3 | 296.7 | 265.3 | 240.9 | 222.9 |
| 22.5° | 635.6 | 561.9 | 490.8 | 427.0 | 368.6 | 320.1 | 278.7 | 249.9 | 226.6 | 213.1 | 207.7 |
| 25° | 602.3 | 517.8 | 437.8 | 367.6 | 309.2 | 267.9 | 240.0 | 215.7 | 204.1 | 198.7 | 198.7 |
| 27.5° | 571.7 | 472.9 | 383.9 | 315.6 | 258.9 | 226.6 | 205.0 | 195.1 | 189.7 | 189.7 | 192.4 |
| 30° | 543.0 | 427.9 | 332.7 | 263.4 | 218.5 | 194.2 | 182.5 | 178.9 | 179.8 | 183.4 | 187.0 |
| 32.5° | 509.7 | 384.7 | 288.6 | 226.6 | 189.7 | 173.5 | 164.5 | 165.4 | 169.9 | 176.2 | 182.5 |
| 35° | 474.6 | 338.9 | 249.9 | 198.7 | 169.9 | 157.3 | 151.9 | 152.8 | 159.2 | 167.3 | 173.5 |
| 37.5° | 443.2 | 302.1 | 220.2 | 177.1 | 155.5 | 147.4 | 142.9 | 143.8 | 148.3 | 158.3 | 166.3 |
| 40° | 411.7 | 270.6 | 196.0 | 164.5 | 147.4 | 139.3 | 136.7 | 135.7 | 139.3 | 148.3 | 158.3 |
| 42.5° | 384.7 | 243.7 | 181.6 | 155.5 | 142.1 | 134.8 | 131.2 | 131.2 | 133.1 | 140.2 | 150.2 |
| 45° | 368.6 | 227.4 | 171.8 | 149.2 | 137.6 | 131.2 | 127.7 | 125.8 | 128.6 | 133.1 | 142.1 |
| 47.5° | 368.6 | 219.3 | 165.4 | 144.7 | 133.9 | 128.6 | 124.1 | 123.2 | 124.1 | 128.6 | 137.6 |
| 50° | 381.2 | 221.2 | 164.5 | 142.9 | 132.2 | 125.0 | 120.5 | 120.5 | 122.2 | 128.6 | 135.7 |
| 52.5° | 392.0 | 224.7 | 167.3 | 144.7 | 132.2 | 123.2 | 117.7 | 116.8 | 119.6 | 125.8 | 132.2 |
| 55° | 390.2 | 224.7 | 169.9 | 147.4 | 134.8 | 124.1 | 116.8 | 116.0 | 117.7 | 124.1 | 130.3 |
| 57.5° | 348.8 | 211.2 | 167.3 | 149.2 | 138.4 | 128.6 | 121.3 | 118.7 | 120.5 | 125.8 | 131.2 |
| 60° | 282.2 | 187.9 | 160.0 | 149.2 | 143.8 | 136.7 | 129.4 | 127.7 | 128.6 | 133.9 | 140.2 |
| 62.5° | 221.2 | 167.3 | 151.0 | 148.3 | 146.5 | 142.9 | 140.2 | 138.4 | 138.4 | 142.9 | 148.3 |
| 65° | 179.8 | 151.0 | 143.8 | 144.7 | 146.5 | 145.7 | 144.7 | 143.8 | 143.8 | 146.5 | 151.9 |
| 67.5° | 150.2 | 135.7 | 133.9 | 136.7 | 138.4 | 139.3 | 140.2 | 139.3 | 140.2 | 142.9 | 149.2 |
| 69° | 136.7 | 127.7 | 125.8 | 127.7 | 131.2 | 132.2 | 133.9 | 133.1 | 133.9 | 136.7 | 142.9 |
| 70° | 128.6 | 121.3 | 119.6 | 122.2 | 125.0 | 125.8 | 127.7 | 126.7 | 127.7 | 130.3 | 136.7 |
| 72.5° | 111.5 | 103.4 | 100.7 | 102.5 | 105.2 | 105.2 | 107.9 | 108.7 | 107.0 | 107.9 | 112.4 |
| 75° | 95.3 | 86.3 | 81.8 | 82.8 | 82.8 | 82.8 | 84.5 | 84.5 | 82.8 | 81.8 | 82.8 |
| 77.5° | 80.0 | 70.1 | 64.8 | 64.8 | 64.8 | 63.8 | 61.2 | 62.0 | 62.9 | 62.0 | 62.9 |
| 80° | 62.9 | 54.8 | 49.4 | 49.4 | 49.4 | 47.7 | 46.7 | 46.7 | 48.6 | 50.3 | 49.4 |
| 82.5° | 48.6 | 40.4 | 37.7 | 36.8 | 36.8 | 35.1 | 35.1 | 36.8 | 36.0 | 36.8 | 38.7 |
| 85° | 35.1 | 28.7 | 26.1 | 27.0 | 26.1 | 24.2 | 25.2 | 27.8 | 27.8 | 27.0 | 28.7 |
| 87.5° | 21.6 | 18.0 | 17.1 | 18.0 | 16.2 | 13.5 | 12.6 | 13.5 | 15.2 | 14.4 | 16.2 |
| 90° | 2.7 | 1.8 | 1.8 | 1.8 | 2.7 | 1.8 | 1.8 | 1.8 | 2.7 | 2.7 | 1.8 |
| 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: P227138
 CATALOG NUMBER: IST-AF-1000-LED-E1-SL4

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | |
|--------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 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 | 67.5° |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 69° |
| | | | | | | | | | | | | 70° |
| | | | | | | | | | | | | 72.5° |
| | | | | | | | | | | | | 75° |
| | | | | | | | | | | | | 77.5° |
| | | | | | | | | | | | | 80° |
| | | | | | | | | | | | | 82.5° |
| | | | | | | | | | | | | 85° |
| | | | | | | | | | | | | 87.5° |
| | | | | | | | | | | | | 90° |
| | | | | | | | | | | | | 92.5° |
| | | | | | | | | | | | | 95° |
| | | | | | | | | | | | | 97.5° |
| | | | | | | | | | | | | 100° |
| | | | | | | | | | | | | 102.5° |
| | | | | | | | | | | | | 105° |
| | | | | | | | | | | | | 107.5° |

NUMBER: P227138
 NUMBER: IST-AF-1000-LED-E1-SL4

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

| 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 927.7 | 927.7 | 927.7 | 927.7 | 927.7 |
| 863.1 | 865.7 | 854.1 | 859.5 | 855.8 |
| 768.6 | 764.1 | 763.2 | 760.6 | 755.1 |
| 658.1 | 654.5 | 643.6 | 647.2 | 639.1 |
| 543.9 | 543.0 | 523.2 | 524.2 | 514.2 |
| 438.7 | 422.5 | 414.4 | 402.7 | 409.1 |
| 339.8 | 326.3 | 309.2 | 304.7 | 311.1 |
| 256.2 | 242.7 | 234.7 | 227.4 | 224.7 |
| 212.2 | 204.1 | 199.6 | 196.9 | 195.1 |
| 205.0 | 203.2 | 202.2 | 200.5 | 199.6 |
| 200.5 | 202.2 | 202.2 | 202.2 | 200.5 |
| 196.0 | 199.6 | 200.5 | 199.6 | 197.7 |
| 191.5 | 194.2 | 194.2 | 193.2 | 190.6 |
| 185.2 | 187.9 | 187.9 | 187.0 | 185.2 |
| 178.0 | 179.8 | 180.7 | 180.7 | 181.6 |
| 172.6 | 174.4 | 176.2 | 178.0 | 180.7 |
| 166.3 | 169.0 | 169.9 | 173.5 | 177.1 |
| 158.3 | 161.8 | 163.6 | 166.3 | 169.9 |
| 150.2 | 154.7 | 155.5 | 159.2 | 162.8 |
| 146.5 | 150.2 | 150.2 | 152.8 | 155.5 |
| 142.1 | 143.8 | 142.9 | 144.7 | 145.7 |
| 137.6 | 139.3 | 138.4 | 140.2 | 141.2 |
| 133.9 | 135.7 | 137.6 | 139.3 | 140.2 |
| 135.7 | 138.4 | 139.3 | 142.1 | 142.9 |
| 143.8 | 147.4 | 151.0 | 154.7 | 157.3 |
| 151.9 | 156.4 | 164.5 | 180.7 | 187.0 |
| 156.4 | 162.8 | 181.6 | 209.5 | 217.6 |
| 153.7 | 161.8 | 184.3 | 214.0 | 223.8 |
| 148.3 | 154.7 | 178.9 | 209.5 | 218.5 |
| 141.2 | 147.4 | 171.8 | 205.0 | 213.1 |
| 114.2 | 117.7 | 144.7 | 176.2 | 181.6 |
| 83.6 | 86.3 | 107.0 | 119.6 | 118.7 |
| 64.8 | 68.3 | 75.5 | 76.4 | 75.5 |
| 51.2 | 53.1 | 56.7 | 56.7 | 57.5 |
| 39.6 | 40.4 | 42.2 | 40.4 | 39.6 |
| 29.7 | 28.7 | 27.8 | 27.0 | 26.1 |
| 17.1 | 17.1 | 14.4 | 12.6 | 11.7 |
| 1.8 | 2.7 | 2.7 | 1.8 | 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 |

CANDELA DISTRIBUTION:

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

