

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: P226603

Luminaire Tested: **IST-AF-800-LED-E1-T4FT-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35943)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-800-LED-E1-T4FT-7060
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5188.4 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U1 - G2

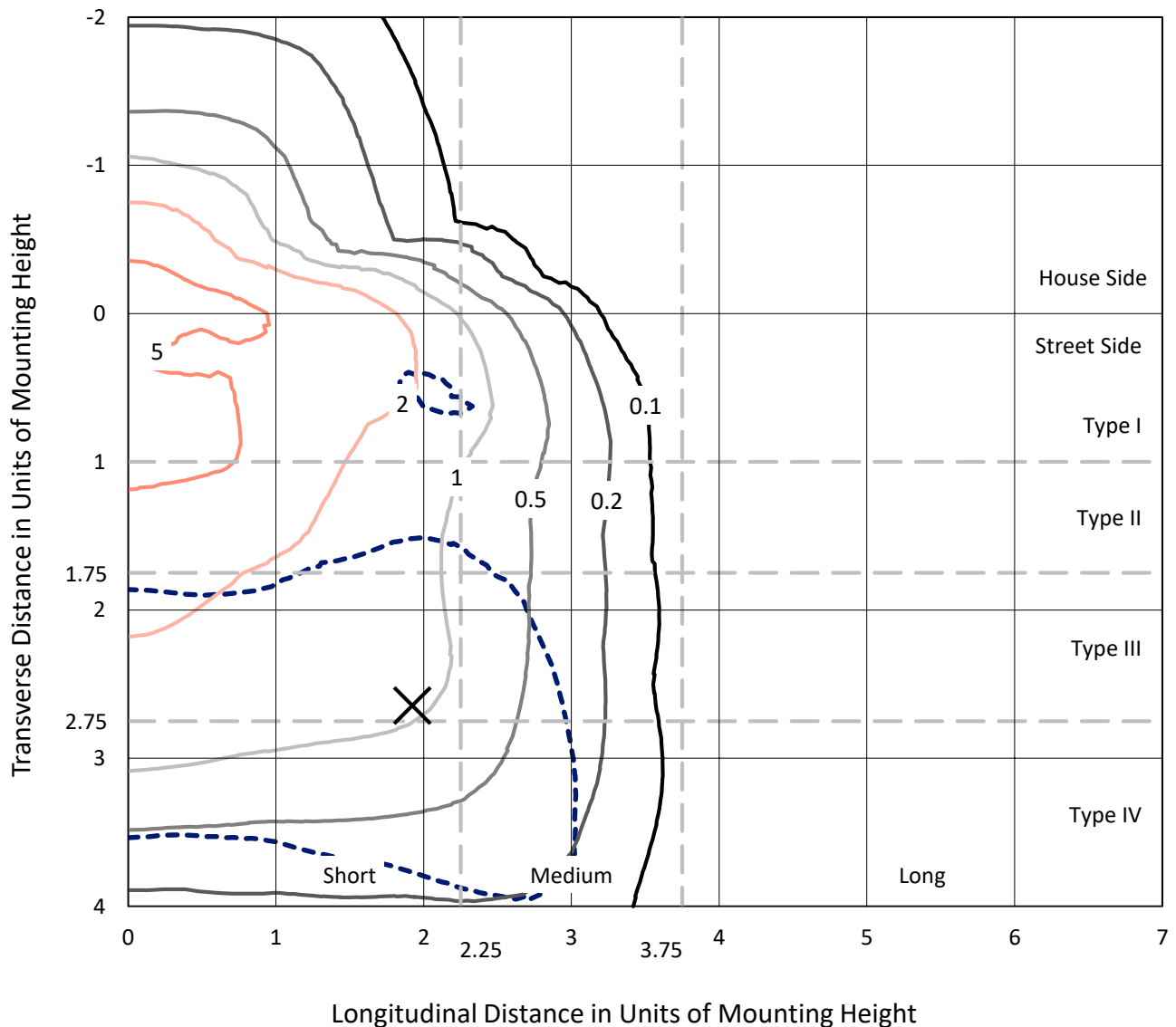
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

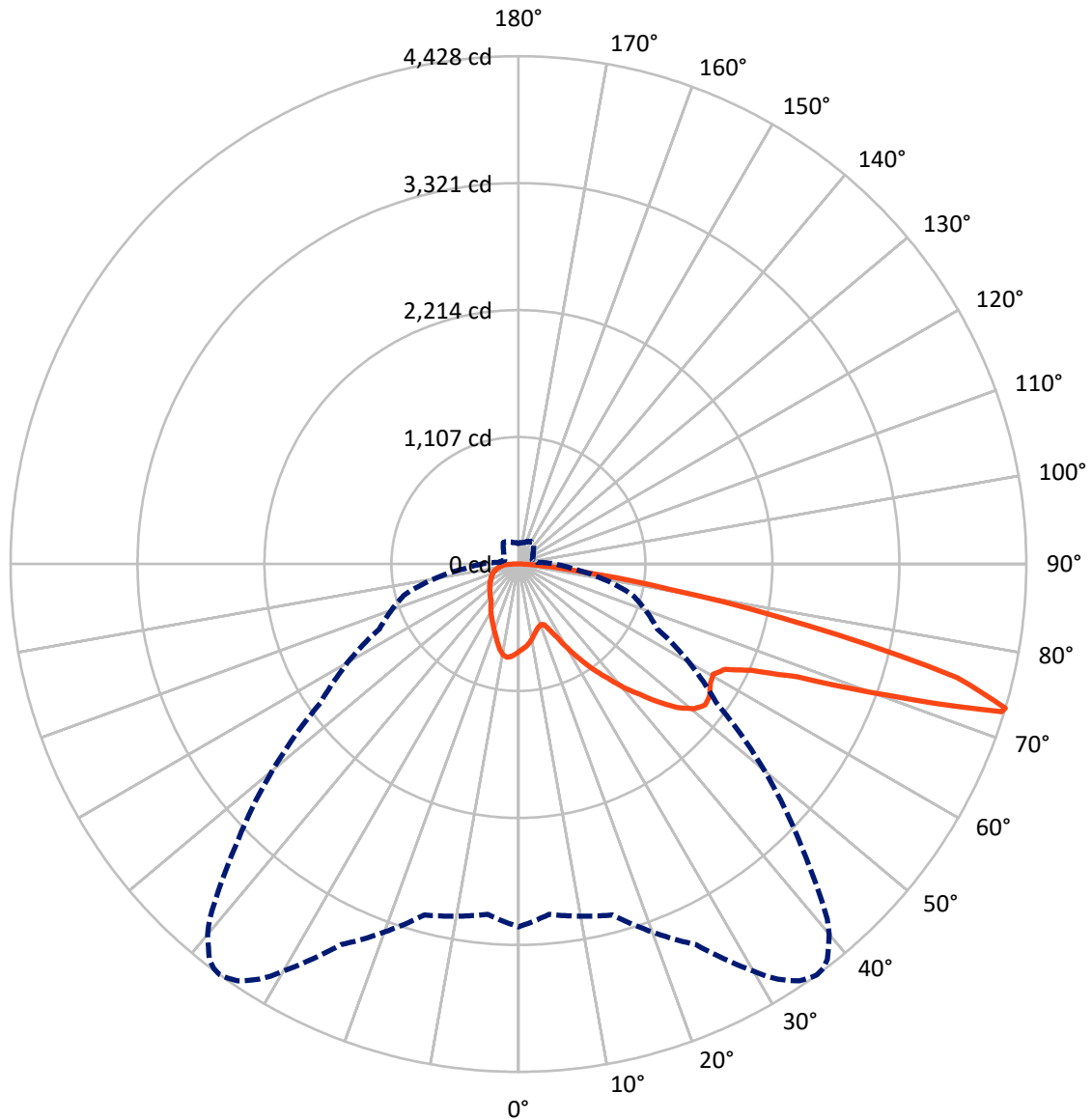
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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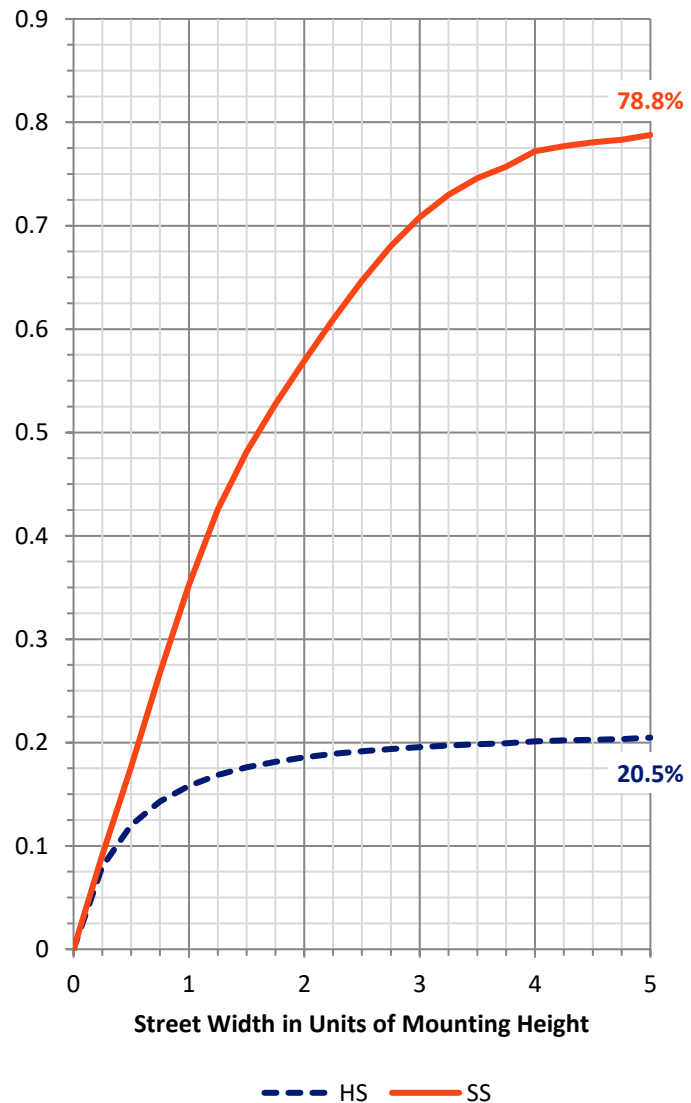
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1094.0 | 1.2 | 1095.2 |
| | % Fixture | 21.1 | 0.0 | 21.1 |
| Street Side | Lumens | 4092.8 | 0.4 | 4093.2 |
| | % Fixture | 78.9 | 0.0 | 78.9 |
| Total | Lumens | 5186.8 | 1.6 | 5188.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.7 | 1.4 |
| 10°-20° | 190.1 | 3.7 |
| 20°-30° | 311.5 | 6.0 |
| 30°-40° | 516.1 | 9.9 |
| 40°-50° | 758.4 | 14.6 |
| 50°-60° | 956.3 | 18.4 |
| 60°-70° | 1252.3 | 24.1 |
| 70°-80° | 1013.7 | 19.5 |
| 80°-90° | 116.6 | 2.2 |
| 90°-100° | 1.6 | 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° | 5186.8 | 100.0 |
| 0°-180° | 5188.4 | 100.0 |



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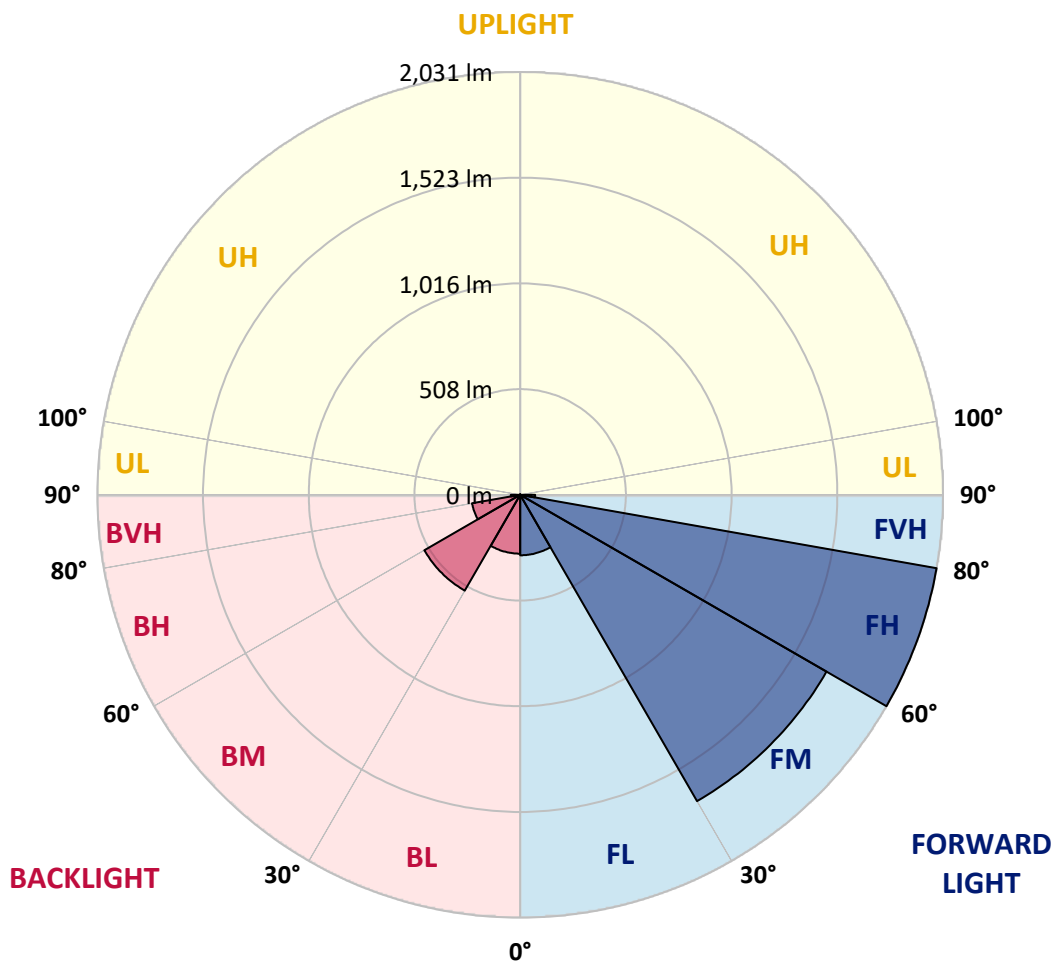
CATALOG NUMBER: IST-AF-800-LED-E1-T4FT-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 290.5 | 5.6 | | | |
| FM | (30°-60°) | 1699.1 | 32.7 | | | |
| FH | (60°-80°) | 2031.3 | 39.2 | | | G2/5000 |
| FVH | (80°-90°) | 71.9 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 282.8 | 5.5 | B1/500 | | |
| BM | (30°-60°) | 531.7 | 10.2 | B1/1000 | | |
| BH | (60°-80°) | 234.7 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 44.7 | 0.9 | | | G1/100 |
| UL | (90°-100°) | 1.6 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 1.2 | 0.0 | | U1/10 | |

BUG Rating: B1-U1-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 30° | 31° | 32° | 33° | 34° | 35° | 36° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 |
| 2.5° | 734.5 | 736.0 | 737.5 | 737.5 | 737.5 | 739.7 | 738.9 | 738.9 | 739.7 | 740.4 | 740.4 |
| 5° | 707.0 | 707.7 | 712.2 | 713.7 | 718.1 | 717.4 | 717.4 | 717.4 | 720.4 | 718.1 | 719.6 |
| 7.5° | 675.8 | 677.2 | 681.7 | 686.9 | 690.6 | 691.4 | 690.6 | 689.1 | 692.9 | 694.3 | 692.9 |
| 10° | 638.6 | 639.3 | 645.3 | 649.7 | 655.7 | 654.9 | 657.2 | 657.2 | 658.7 | 657.9 | 660.9 |
| 12.5° | 620.0 | 618.5 | 615.5 | 617.8 | 619.3 | 619.3 | 619.3 | 621.5 | 620.7 | 622.2 | 624.5 |
| 15° | 617.8 | 614.0 | 599.2 | 594.0 | 592.5 | 592.5 | 591.7 | 591.0 | 593.2 | 595.5 | 595.5 |
| 17.5° | 628.2 | 620.7 | 591.7 | 576.9 | 573.9 | 572.4 | 573.2 | 571.7 | 571.7 | 574.6 | 573.9 |
| 20° | 678.7 | 665.3 | 607.4 | 574.6 | 565.7 | 565.7 | 565.0 | 562.8 | 562.8 | 563.5 | 563.5 |
| 22.5° | 807.3 | 790.2 | 689.1 | 621.5 | 590.3 | 589.5 | 587.3 | 585.1 | 579.1 | 577.6 | 574.6 |
| 25° | 986.5 | 966.4 | 793.2 | 720.4 | 676.5 | 675.0 | 663.9 | 662.4 | 648.2 | 649.0 | 639.3 |
| 27.5° | 1125.5 | 1112.1 | 932.2 | 835.6 | 794.0 | 785.0 | 779.8 | 766.4 | 754.6 | 744.9 | 733.0 |
| 30° | 1173.1 | 1170.9 | 1072.7 | 994.7 | 932.2 | 921.8 | 907.7 | 901.7 | 884.6 | 871.3 | 863.1 |
| 32.5° | 1248.2 | 1250.4 | 1209.5 | 1123.3 | 1069.0 | 1058.6 | 1046.7 | 1032.6 | 1020.7 | 1011.8 | 992.4 |
| 35° | 1355.2 | 1356.0 | 1327.7 | 1263.0 | 1200.6 | 1186.5 | 1179.8 | 1163.4 | 1152.3 | 1141.1 | 1131.5 |
| 37.5° | 1429.6 | 1433.3 | 1413.2 | 1363.4 | 1326.2 | 1306.2 | 1305.4 | 1293.5 | 1280.9 | 1271.2 | 1262.3 |
| 40° | 1572.3 | 1552.2 | 1486.1 | 1454.1 | 1423.6 | 1421.4 | 1414.7 | 1408.0 | 1411.0 | 1405.8 | 1415.4 |
| 42.5° | 1716.5 | 1691.2 | 1599.1 | 1553.7 | 1535.1 | 1538.8 | 1536.6 | 1537.4 | 1546.3 | 1544.0 | 1554.5 |
| 45° | 1839.9 | 1810.9 | 1723.2 | 1669.7 | 1684.5 | 1689.0 | 1701.6 | 1709.1 | 1705.4 | 1718.7 | 1718.7 |
| 47.5° | 1963.3 | 1895.7 | 1791.6 | 1816.1 | 1826.5 | 1860.7 | 1869.7 | 1867.4 | 1880.1 | 1886.0 | 1869.7 |
| 50° | 1876.3 | 1858.5 | 1850.3 | 1925.4 | 1972.2 | 1983.4 | 1996.0 | 2002.7 | 2008.7 | 2000.5 | 1984.1 |
| 52.5° | 1692.7 | 1691.2 | 1806.5 | 1990.1 | 2029.5 | 2044.4 | 2056.2 | 2061.5 | 2059.2 | 2054.8 | 2041.4 |
| 55° | 1631.0 | 1619.1 | 1718.7 | 1923.2 | 1983.4 | 1997.5 | 2014.6 | 2025.0 | 2035.4 | 2033.9 | 2023.5 |
| 57.5° | 1715.0 | 1705.4 | 1706.1 | 1864.5 | 1923.2 | 1935.8 | 1947.0 | 1958.9 | 1961.8 | 1971.5 | 1972.2 |
| 60° | 1958.9 | 1946.2 | 1844.4 | 1862.2 | 1921.7 | 1935.8 | 1937.3 | 1944.0 | 1944.7 | 1949.9 | 1950.7 |
| 62.5° | 2310.5 | 2287.4 | 2132.1 | 1998.3 | 2019.1 | 2025.8 | 2031.0 | 2029.5 | 2026.5 | 2022.8 | 2022.8 |
| 65° | 2695.6 | 2674.0 | 2474.0 | 2317.9 | 2257.7 | 2274.1 | 2248.0 | 2242.8 | 2236.9 | 2236.9 | 2230.2 |
| 67.5° | 3153.5 | 3112.6 | 2958.0 | 2782.6 | 2695.6 | 2703.8 | 2715.6 | 2670.3 | 2653.9 | 2655.4 | 2620.5 |
| 70° | 3620.4 | 3577.2 | 3509.6 | 3507.4 | 3551.2 | 3531.9 | 3476.9 | 3549.7 | 3463.5 | 3442.7 | 3435.3 |
| 72.5° | 3362.4 | 3311.1 | 3325.2 | 3745.3 | 4139.3 | 4203.2 | 4264.2 | 4320.7 | 4371.2 | 4401.7 | 4406.1 |
| 73° | 3164.7 | 3067.3 | 3168.4 | 3662.0 | 4099.1 | 4193.5 | 4269.4 | 4329.6 | 4383.8 | 4411.3 | 4428.4 |
| 75° | 1580.5 | 1585.7 | 2083.8 | 3021.2 | 3582.5 | 3663.5 | 3781.7 | 3847.8 | 3946.0 | 3996.5 | 3951.9 |
| 77.5° | 366.5 | 379.9 | 631.1 | 1434.0 | 2147.7 | 2263.7 | 2358.1 | 2454.7 | 2568.5 | 2610.8 | 2573.7 |
| 80° | 129.4 | 135.3 | 222.3 | 544.9 | 896.5 | 960.5 | 1041.5 | 1147.8 | 1253.4 | 1279.4 | 1344.8 |
| 82.5° | 68.4 | 75.1 | 117.5 | 236.4 | 382.9 | 418.5 | 439.4 | 483.2 | 520.4 | 542.7 | 554.6 |
| 85° | 39.4 | 40.1 | 66.9 | 130.8 | 175.4 | 189.6 | 202.9 | 213.4 | 225.3 | 217.1 | 217.1 |
| 87.5° | 15.6 | 17.1 | 34.2 | 61.7 | 84.7 | 94.4 | 94.4 | 94.4 | 93.7 | 82.5 | 75.1 |
| 90° | 3.0 | 4.5 | 6.7 | 12.6 | 11.2 | 11.2 | 10.4 | 8.9 | 8.2 | 8.9 | 5.2 |
| 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 |



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CATALOG NUMBER: IST-AF-800-LED-E1-T4FT-7060

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 30° | 31° | 32° | 33° | 34° | 35° | 36° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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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CATALOG NUMBER: IST-AF-800-LED-E1-T4FT-7060

CANDELA DISTRIBUTION (continued):

| | 37° | 38° | 39° | 40° | 41° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 |
| 2.5° | 741.9 | 742.7 | 741.2 | 744.1 | 741.9 | 741.9 | 745.6 | 752.3 | 757.5 | 759.0 | 763.5 |
| 5° | 721.1 | 721.8 | 721.8 | 722.6 | 721.8 | 723.3 | 730.0 | 736.0 | 746.4 | 751.6 | 758.3 |
| 7.5° | 694.3 | 696.6 | 695.8 | 697.3 | 697.3 | 698.8 | 709.2 | 718.9 | 729.3 | 738.9 | 747.1 |
| 10° | 662.4 | 663.9 | 666.8 | 665.3 | 665.3 | 669.8 | 681.0 | 695.1 | 707.7 | 721.8 | 731.5 |
| 12.5° | 624.5 | 628.2 | 627.4 | 630.4 | 631.9 | 634.9 | 653.5 | 669.1 | 684.7 | 701.0 | 713.7 |
| 15° | 594.7 | 597.0 | 598.4 | 599.2 | 599.2 | 605.9 | 624.5 | 643.8 | 664.6 | 683.9 | 697.3 |
| 17.5° | 575.4 | 575.4 | 576.9 | 577.6 | 579.1 | 583.6 | 602.9 | 624.5 | 648.2 | 672.0 | 686.9 |
| 20° | 564.2 | 564.2 | 565.0 | 565.7 | 565.7 | 570.9 | 588.8 | 613.3 | 639.3 | 669.8 | 687.6 |
| 22.5° | 573.2 | 570.9 | 570.2 | 570.2 | 567.2 | 567.2 | 584.3 | 610.3 | 643.0 | 682.4 | 705.5 |
| 25° | 634.1 | 627.4 | 617.0 | 614.8 | 611.1 | 593.2 | 591.0 | 620.7 | 660.9 | 709.9 | 744.9 |
| 27.5° | 725.6 | 718.9 | 712.2 | 704.0 | 698.1 | 665.3 | 620.7 | 647.5 | 695.1 | 765.0 | 808.1 |
| 30° | 845.2 | 831.9 | 822.2 | 813.3 | 787.3 | 751.6 | 682.4 | 689.1 | 747.9 | 841.5 | 895.8 |
| 32.5° | 979.1 | 964.9 | 950.1 | 929.3 | 922.6 | 864.6 | 776.1 | 758.3 | 814.8 | 930.7 | 987.2 |
| 35° | 1108.4 | 1101.7 | 1091.3 | 1083.1 | 1067.5 | 1019.2 | 898.0 | 841.5 | 892.1 | 1035.6 | 1079.4 |
| 37.5° | 1258.6 | 1245.9 | 1246.7 | 1240.0 | 1231.1 | 1190.2 | 1024.4 | 941.9 | 975.3 | 1135.9 | 1163.4 |
| 40° | 1406.5 | 1403.5 | 1408.0 | 1396.9 | 1382.0 | 1327.0 | 1117.3 | 1015.5 | 1062.3 | 1232.6 | 1225.9 |
| 42.5° | 1546.3 | 1548.5 | 1543.3 | 1530.7 | 1514.3 | 1422.1 | 1176.8 | 1077.9 | 1140.4 | 1317.3 | 1275.7 |
| 45° | 1706.1 | 1697.9 | 1676.4 | 1654.1 | 1634.0 | 1503.9 | 1208.8 | 1147.8 | 1215.5 | 1408.7 | 1326.2 |
| 47.5° | 1857.0 | 1825.1 | 1806.5 | 1772.3 | 1732.9 | 1578.2 | 1251.9 | 1221.4 | 1298.7 | 1495.0 | 1374.5 |
| 50° | 1967.8 | 1938.0 | 1906.8 | 1865.2 | 1823.6 | 1642.9 | 1309.1 | 1304.7 | 1393.1 | 1591.6 | 1440.7 |
| 52.5° | 2018.3 | 1990.8 | 1960.4 | 1918.0 | 1876.3 | 1689.8 | 1385.7 | 1385.7 | 1504.6 | 1719.5 | 1532.2 |
| 55° | 2010.2 | 1990.1 | 1963.3 | 1924.7 | 1892.7 | 1715.0 | 1464.5 | 1474.9 | 1644.4 | 1857.8 | 1637.7 |
| 57.5° | 1967.0 | 1955.9 | 1940.3 | 1913.5 | 1887.5 | 1734.4 | 1557.4 | 1564.1 | 1831.7 | 1990.8 | 1737.3 |
| 60° | 1952.2 | 1947.7 | 1938.8 | 1923.2 | 1903.1 | 1776.7 | 1656.3 | 1671.2 | 2041.4 | 2112.7 | 1793.8 |
| 62.5° | 2018.3 | 2009.4 | 2002.7 | 1987.1 | 1968.5 | 1880.8 | 1780.4 | 1784.9 | 2238.4 | 2127.6 | 1738.8 |
| 65° | 2204.2 | 2187.8 | 2176.7 | 2155.9 | 2135.0 | 2037.7 | 1938.8 | 1890.5 | 2335.0 | 1988.6 | 1552.2 |
| 67.5° | 2593.7 | 2567.0 | 2535.0 | 2495.6 | 2438.4 | 2350.6 | 2095.6 | 1905.3 | 2247.3 | 1684.5 | 1224.4 |
| 70° | 3363.9 | 3305.9 | 3232.3 | 3148.3 | 3126.7 | 2871.0 | 2193.8 | 1795.3 | 1868.2 | 1176.8 | 811.8 |
| 72.5° | 4398.7 | 4338.5 | 4273.1 | 4203.9 | 4067.2 | 3505.1 | 2150.7 | 1448.1 | 1161.9 | 605.1 | 386.6 |
| 73° | 4415.8 | 4374.9 | 4296.1 | 4215.8 | 4104.3 | 3494.0 | 2103.8 | 1335.1 | 1024.4 | 476.5 | 316.7 |
| 75° | 3960.1 | 3943.7 | 3866.4 | 3711.8 | 3617.4 | 2951.3 | 1549.2 | 773.9 | 448.3 | 294.4 | 205.9 |
| 77.5° | 2569.9 | 2552.1 | 2508.2 | 2493.4 | 2319.4 | 1913.5 | 693.6 | 301.1 | 243.8 | 195.5 | 145.7 |
| 80° | 1369.3 | 1286.1 | 1271.2 | 1211.7 | 1084.6 | 736.7 | 237.1 | 184.4 | 162.1 | 130.8 | 101.8 |
| 82.5° | 555.3 | 519.6 | 506.3 | 458.7 | 431.2 | 220.8 | 118.9 | 127.9 | 108.5 | 77.3 | 62.4 |
| 85° | 204.4 | 188.1 | 183.6 | 149.4 | 131.6 | 65.4 | 72.9 | 90.0 | 67.6 | 43.1 | 31.2 |
| 87.5° | 70.6 | 61.0 | 52.8 | 40.9 | 37.9 | 26.8 | 40.1 | 49.1 | 43.1 | 26.0 | 14.9 |
| 90° | 5.2 | 4.5 | 3.7 | 3.0 | 3.7 | 3.0 | 4.5 | 6.7 | 7.4 | 4.5 | 3.0 |
| 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: P226603

CATALOG NUMBER: IST-AF-800-LED-E1-T4FT-7060

CANDELA DISTRIBUTION (continued):

| | 37° | 38° | 39° | 40° | 41° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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: P226603

CATALOG NUMBER: IST-AF-800-LED-E1-T4FT-7060

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 | 762.0 |
| 2.5° | 765.0 | 767.9 | 773.9 | 778.3 | 782.1 | 787.3 | 788.7 | 791.7 | 788.0 | 792.5 |
| 5° | 762.0 | 770.9 | 782.1 | 792.5 | 802.1 | 810.3 | 814.0 | 814.8 | 815.5 | 818.5 |
| 7.5° | 754.6 | 767.9 | 785.8 | 799.9 | 814.8 | 820.0 | 822.2 | 822.9 | 817.7 | 820.0 |
| 10° | 739.7 | 761.2 | 783.5 | 800.6 | 808.1 | 804.4 | 798.4 | 788.7 | 784.3 | 784.3 |
| 12.5° | 723.3 | 750.8 | 776.9 | 786.5 | 779.8 | 765.7 | 749.3 | 731.5 | 724.8 | 724.8 |
| 15° | 709.9 | 744.9 | 766.4 | 759.8 | 740.4 | 713.7 | 691.4 | 672.8 | 666.8 | 664.6 |
| 17.5° | 702.5 | 741.9 | 750.1 | 729.3 | 696.6 | 663.1 | 640.8 | 625.2 | 620.0 | 620.0 |
| 20° | 708.5 | 744.9 | 731.5 | 692.9 | 652.0 | 621.5 | 602.2 | 591.7 | 586.5 | 588.8 |
| 22.5° | 733.7 | 756.0 | 715.2 | 657.2 | 607.4 | 581.3 | 572.4 | 565.7 | 565.0 | 566.5 |
| 25° | 776.1 | 770.9 | 701.0 | 620.0 | 565.7 | 547.1 | 546.4 | 544.2 | 543.4 | 542.7 |
| 27.5° | 831.1 | 789.5 | 683.9 | 578.4 | 524.1 | 515.2 | 519.6 | 518.9 | 518.2 | 518.9 |
| 30° | 904.0 | 805.8 | 658.7 | 533.0 | 484.7 | 484.7 | 491.4 | 489.2 | 486.2 | 486.9 |
| 32.5° | 971.6 | 817.7 | 620.0 | 482.5 | 453.5 | 455.0 | 457.2 | 451.2 | 443.8 | 445.3 |
| 35° | 1029.6 | 817.7 | 568.0 | 437.1 | 421.5 | 421.5 | 423.0 | 417.8 | 411.8 | 409.6 |
| 37.5° | 1077.9 | 801.4 | 502.5 | 402.9 | 395.5 | 395.5 | 401.4 | 396.2 | 385.1 | 382.9 |
| 40° | 1106.9 | 765.7 | 442.3 | 377.6 | 382.9 | 383.6 | 375.4 | 366.5 | 356.1 | 353.9 |
| 42.5° | 1125.5 | 713.7 | 394.7 | 359.8 | 374.7 | 368.7 | 349.4 | 335.3 | 334.5 | 337.5 |
| 45° | 1141.9 | 654.9 | 356.8 | 342.0 | 365.8 | 353.1 | 327.1 | 313.7 | 318.2 | 321.1 |
| 47.5° | 1158.2 | 596.2 | 326.4 | 321.9 | 349.4 | 340.5 | 313.0 | 298.1 | 295.9 | 300.3 |
| 50° | 1196.9 | 514.4 | 291.4 | 298.1 | 329.3 | 326.4 | 300.3 | 283.2 | 269.1 | 268.4 |
| 52.5° | 1248.9 | 405.2 | 261.7 | 277.3 | 313.7 | 318.2 | 286.2 | 269.9 | 250.5 | 247.6 |
| 55° | 1306.9 | 310.7 | 237.1 | 260.9 | 298.8 | 306.3 | 281.0 | 256.5 | 235.7 | 232.7 |
| 57.5° | 1324.0 | 245.3 | 214.1 | 237.9 | 278.8 | 295.1 | 272.8 | 240.9 | 225.3 | 222.3 |
| 60° | 1265.3 | 203.7 | 194.8 | 218.6 | 258.7 | 284.0 | 260.2 | 229.0 | 214.8 | 212.6 |
| 62.5° | 1086.1 | 179.9 | 184.4 | 205.9 | 243.8 | 273.6 | 250.5 | 220.0 | 208.9 | 207.4 |
| 65° | 828.9 | 163.5 | 175.4 | 195.5 | 230.5 | 263.9 | 243.8 | 216.3 | 207.4 | 205.9 |
| 67.5° | 520.4 | 151.7 | 166.5 | 184.4 | 217.1 | 253.5 | 238.6 | 211.9 | 205.2 | 202.9 |
| 70° | 288.4 | 139.0 | 154.6 | 171.7 | 203.7 | 243.8 | 231.9 | 205.2 | 204.4 | 200.0 |
| 72.5° | 175.4 | 125.6 | 142.0 | 158.3 | 188.8 | 231.9 | 220.0 | 197.0 | 189.6 | 180.6 |
| 73° | 167.3 | 124.1 | 139.0 | 155.4 | 185.1 | 229.0 | 217.8 | 194.0 | 186.6 | 177.7 |
| 75° | 135.3 | 111.5 | 127.1 | 141.2 | 171.7 | 217.1 | 205.2 | 183.6 | 171.7 | 165.0 |
| 77.5° | 99.6 | 95.2 | 110.0 | 123.4 | 154.6 | 200.7 | 187.3 | 168.0 | 153.9 | 150.2 |
| 80° | 73.6 | 78.8 | 92.9 | 104.8 | 136.0 | 184.4 | 168.8 | 150.2 | 141.2 | 136.8 |
| 82.5° | 49.8 | 61.0 | 74.3 | 84.0 | 120.4 | 166.5 | 149.4 | 131.6 | 137.5 | 114.5 |
| 85° | 29.0 | 42.4 | 53.5 | 65.4 | 96.6 | 148.7 | 130.1 | 112.3 | 98.1 | 88.5 |
| 87.5° | 19.3 | 23.8 | 32.7 | 44.6 | 69.9 | 116.7 | 103.3 | 87.7 | 63.9 | 63.9 |
| 90° | 2.2 | 3.0 | 4.5 | 5.2 | 9.7 | 49.8 | 34.2 | 40.9 | 7.4 | 6.7 |
| 92.5° | 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 |
| 97.5° | 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 |
| 102.5° | 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 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P226603
 CATALOG NUMBER: IST-AF-800-LED-E1-T4FT-7060

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 110° | 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 |
| 115° | 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 |
| 120° | 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 |
| 125° | 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 |
| 130° | 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 |
| 135° | 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 |
| 140° | 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 |
| 145° | 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 |
| 150° | 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 |
| 155° | 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 |
| 160° | 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 |
| 165° | 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 |
| 170° | 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 |
| 175° | 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 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)