

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: P226609

Luminaire Tested: **IST-AF-600-LED-E1-T4FT-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226609
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-600-LED-E1-T4FT-7050
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4144.9 lumens
Efficiency: N/A
Efficacy: 123.0 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 - G1

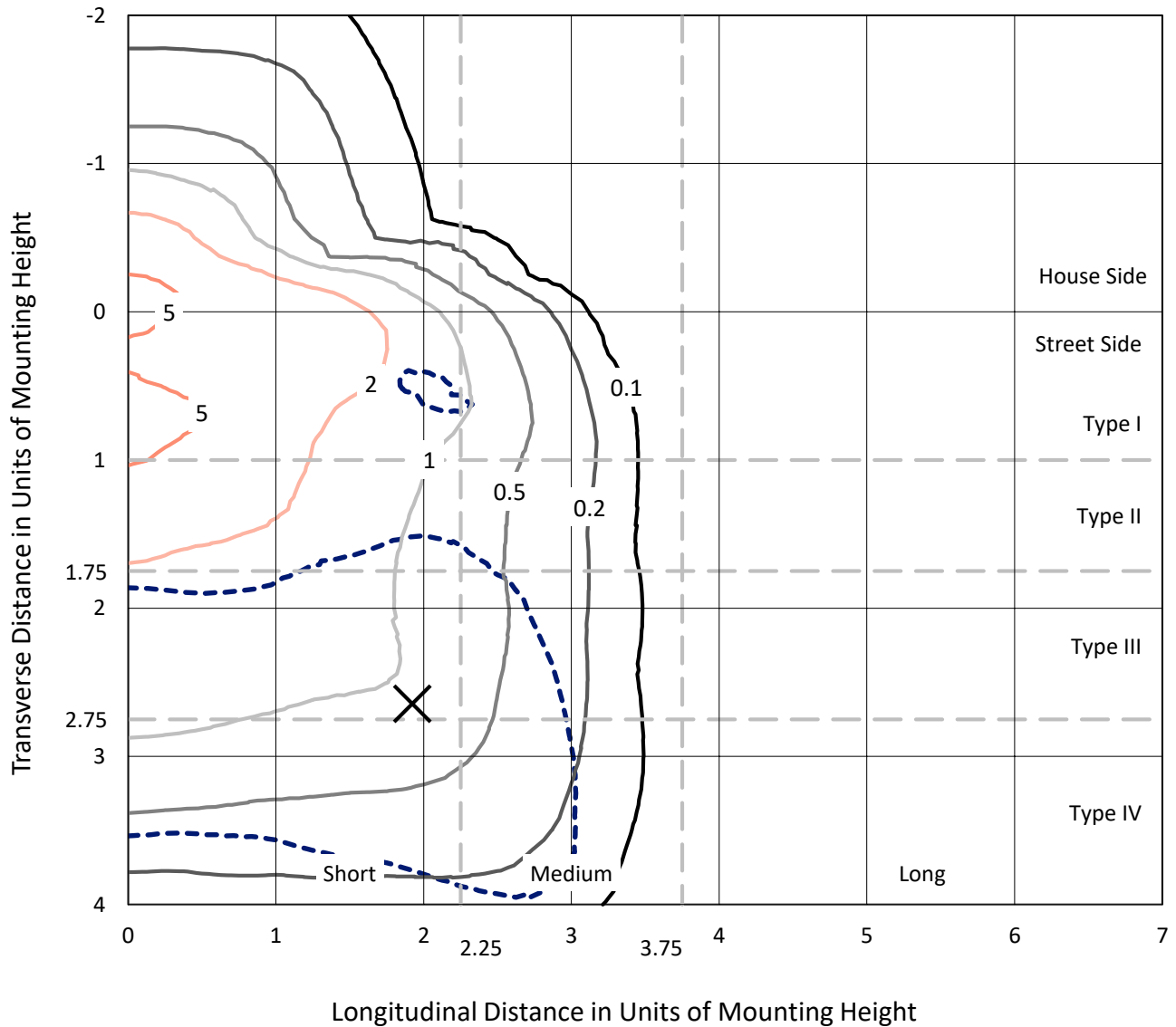
Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P226609
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Iso-Footcandle Lines of Horizontal Illumination

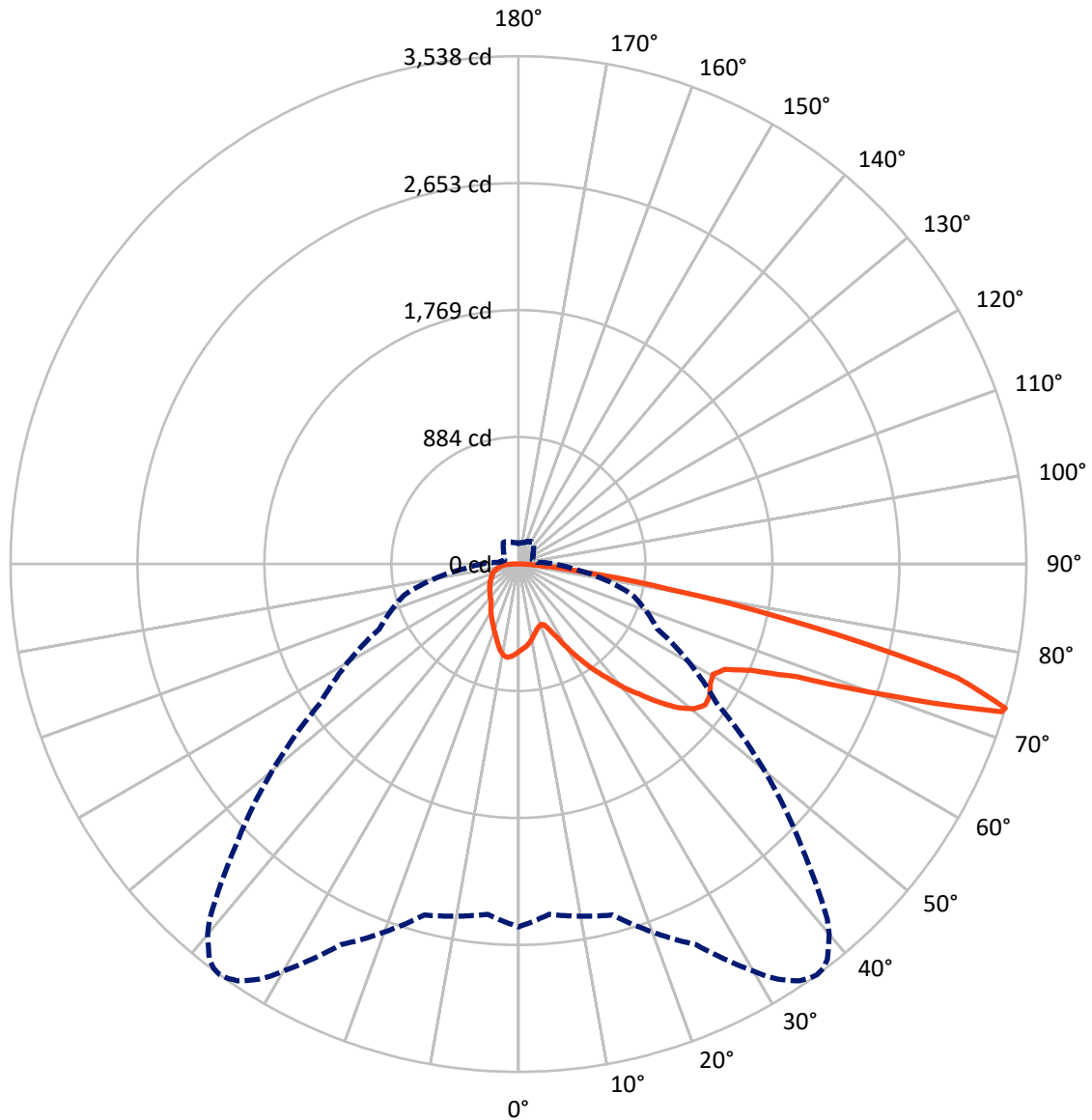
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 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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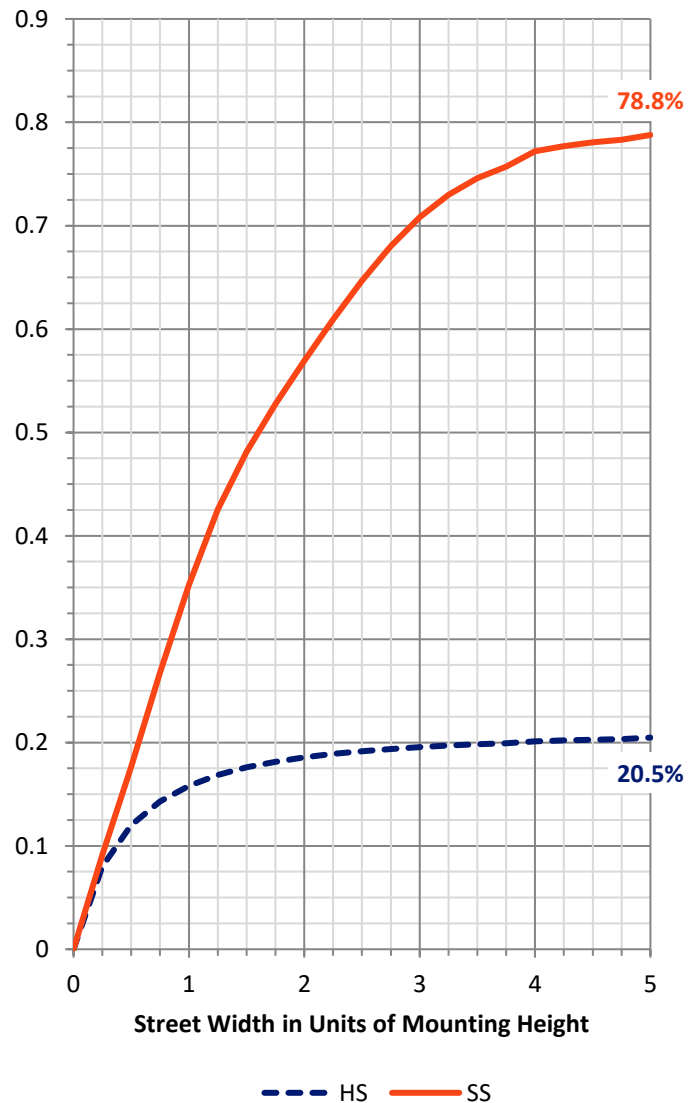
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 874.0 | 1.0 | 874.9 |
| | % Fixture | 21.1 | 0.0 | 21.1 |
| Street Side | Lumens | 3269.6 | 0.3 | 3270.0 |
| | % Fixture | 78.9 | 0.0 | 78.9 |
| Total | Lumens | 4143.6 | 1.3 | 4144.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.3 | 1.4 |
| 10°-20° | 151.8 | 3.7 |
| 20°-30° | 248.8 | 6.0 |
| 30°-40° | 412.3 | 9.9 |
| 40°-50° | 605.9 | 14.6 |
| 50°-60° | 764.0 | 18.4 |
| 60°-70° | 1000.4 | 24.1 |
| 70°-80° | 809.8 | 19.5 |
| 80°-90° | 93.2 | 2.2 |
| 90°-100° | 1.3 | 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° | 4143.6 | 100.0 |
| 0°-180° | 4144.9 | 100.0 |



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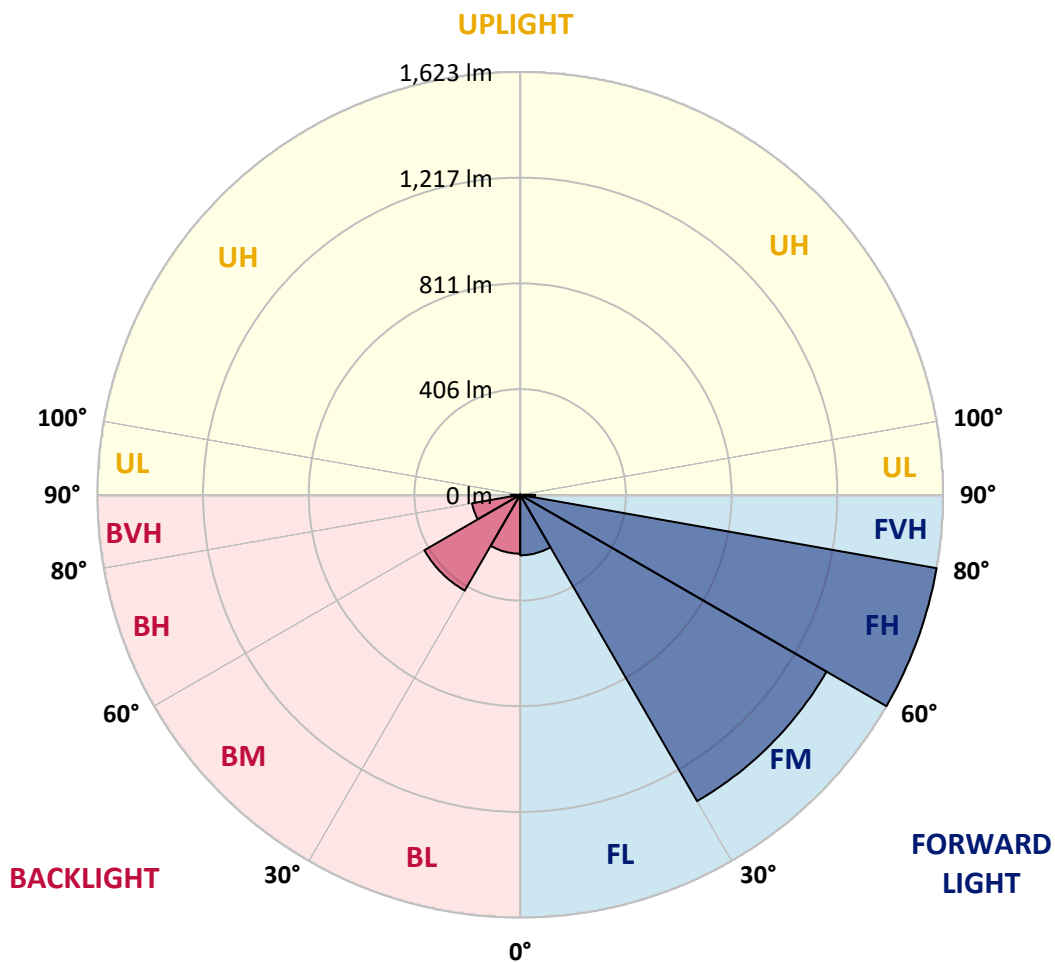
CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 232.0 | 5.6 | | | |
| FM | (30°-60°) | 1357.4 | 32.7 | | | |
| FH | (60°-80°) | 1622.7 | 39.2 | | | G1/1800 |
| FVH | (80°-90°) | 57.5 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 225.9 | 5.5 | B1/500 | | |
| BM | (30°-60°) | 424.8 | 10.2 | B1/1000 | | |
| BH | (60°-80°) | 187.5 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 35.7 | 0.9 | | | G1/100 |
| UL | (90°-100°) | 1.3 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 1.0 | 0.0 | | U1/10 | |

BUG Rating: B1-U1-G1

Type IV Short





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CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 30° | 31° | 32° | 33° | 34° | 35° | 36° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 |
| 2.5° | 586.8 | 587.9 | 589.1 | 589.1 | 589.1 | 590.9 | 590.3 | 590.3 | 590.9 | 591.5 | 591.5 |
| 5° | 564.8 | 565.4 | 568.9 | 570.1 | 573.7 | 573.1 | 573.1 | 573.1 | 575.5 | 573.7 | 574.9 |
| 7.5° | 539.8 | 541.0 | 544.6 | 548.7 | 551.7 | 552.3 | 551.7 | 550.5 | 553.5 | 554.7 | 553.5 |
| 10° | 510.1 | 510.7 | 515.5 | 519.1 | 523.8 | 523.2 | 525.0 | 525.0 | 526.2 | 525.6 | 528.0 |
| 12.5° | 495.3 | 494.1 | 491.7 | 493.5 | 494.7 | 494.7 | 494.7 | 496.5 | 495.9 | 497.1 | 498.9 |
| 15° | 493.5 | 490.5 | 478.7 | 474.5 | 473.3 | 473.3 | 472.7 | 472.1 | 473.9 | 475.7 | 475.7 |
| 17.5° | 501.8 | 495.9 | 472.7 | 460.9 | 458.5 | 457.3 | 457.9 | 456.7 | 456.7 | 459.1 | 458.5 |
| 20° | 542.2 | 531.5 | 485.2 | 459.1 | 451.9 | 451.9 | 451.3 | 449.6 | 449.6 | 450.2 | 450.2 |
| 22.5° | 645.0 | 631.3 | 550.5 | 496.5 | 471.5 | 470.9 | 469.2 | 467.4 | 462.6 | 461.4 | 459.1 |
| 25° | 788.1 | 772.0 | 633.7 | 575.5 | 540.4 | 539.2 | 530.3 | 529.1 | 517.9 | 518.5 | 510.7 |
| 27.5° | 899.1 | 888.4 | 744.7 | 667.5 | 634.3 | 627.1 | 623.0 | 612.3 | 602.8 | 595.1 | 585.6 |
| 30° | 937.1 | 935.4 | 857.0 | 794.6 | 744.7 | 736.4 | 725.1 | 720.4 | 706.7 | 696.0 | 689.5 |
| 32.5° | 997.1 | 998.9 | 966.2 | 897.4 | 854.0 | 845.7 | 836.2 | 824.9 | 815.4 | 808.3 | 792.8 |
| 35° | 1082.6 | 1083.2 | 1060.7 | 1009.0 | 959.1 | 947.8 | 942.5 | 929.4 | 920.5 | 911.6 | 903.9 |
| 37.5° | 1142.0 | 1145.0 | 1129.0 | 1089.2 | 1059.5 | 1043.4 | 1042.9 | 1033.4 | 1023.3 | 1015.5 | 1008.4 |
| 40° | 1256.1 | 1240.0 | 1187.2 | 1161.6 | 1137.3 | 1135.5 | 1130.2 | 1124.8 | 1127.2 | 1123.0 | 1130.7 |
| 42.5° | 1371.3 | 1351.1 | 1277.4 | 1241.2 | 1226.4 | 1229.3 | 1227.6 | 1228.1 | 1235.3 | 1233.5 | 1241.8 |
| 45° | 1469.9 | 1446.7 | 1376.6 | 1333.9 | 1345.7 | 1349.3 | 1359.4 | 1365.3 | 1362.4 | 1373.1 | 1373.1 |
| 47.5° | 1568.4 | 1514.4 | 1431.3 | 1450.8 | 1459.2 | 1486.5 | 1493.6 | 1491.8 | 1501.9 | 1506.7 | 1493.6 |
| 50° | 1499.0 | 1484.7 | 1478.2 | 1538.1 | 1575.6 | 1584.5 | 1594.6 | 1599.9 | 1604.7 | 1598.1 | 1585.1 |
| 52.5° | 1352.3 | 1351.1 | 1443.1 | 1589.8 | 1621.3 | 1633.2 | 1642.7 | 1646.8 | 1645.0 | 1641.5 | 1630.8 |
| 55° | 1303.0 | 1293.5 | 1373.1 | 1536.4 | 1584.5 | 1595.8 | 1609.4 | 1617.7 | 1626.0 | 1624.9 | 1616.5 |
| 57.5° | 1370.1 | 1362.4 | 1363.0 | 1489.5 | 1536.4 | 1546.5 | 1555.4 | 1564.9 | 1567.2 | 1575.0 | 1575.6 |
| 60° | 1564.9 | 1554.8 | 1473.4 | 1487.7 | 1535.2 | 1546.5 | 1547.7 | 1553.0 | 1553.6 | 1557.7 | 1558.3 |
| 62.5° | 1845.8 | 1827.4 | 1703.2 | 1596.4 | 1613.0 | 1618.3 | 1622.5 | 1621.3 | 1618.9 | 1615.9 | 1615.9 |
| 65° | 2153.4 | 2136.2 | 1976.4 | 1851.7 | 1803.6 | 1816.7 | 1795.9 | 1791.7 | 1787.0 | 1787.0 | 1781.6 |
| 67.5° | 2519.2 | 2486.6 | 2363.0 | 2222.9 | 2153.4 | 2159.9 | 2169.4 | 2133.2 | 2120.2 | 2121.3 | 2093.4 |
| 70° | 2892.2 | 2857.8 | 2803.7 | 2801.9 | 2837.0 | 2821.5 | 2777.6 | 2835.8 | 2766.9 | 2750.3 | 2744.3 |
| 72.5° | 2686.1 | 2645.1 | 2656.4 | 2992.0 | 3306.7 | 3357.8 | 3406.5 | 3451.6 | 3492.0 | 3516.4 | 3519.9 |
| 73° | 2528.1 | 2450.3 | 2531.1 | 2925.5 | 3274.7 | 3350.1 | 3410.7 | 3458.8 | 3502.1 | 3524.1 | 3537.7 |
| 75° | 1262.6 | 1266.7 | 1664.6 | 2413.5 | 2861.9 | 2926.6 | 3021.1 | 3073.9 | 3152.3 | 3192.7 | 3157.1 |
| 77.5° | 292.8 | 303.5 | 504.2 | 1145.6 | 1715.7 | 1808.4 | 1883.8 | 1961.0 | 2051.9 | 2085.7 | 2056.0 |
| 80° | 103.3 | 108.1 | 177.6 | 435.3 | 716.2 | 767.3 | 832.0 | 917.0 | 1001.3 | 1022.1 | 1074.3 |
| 82.5° | 54.6 | 60.0 | 93.8 | 188.9 | 305.8 | 334.4 | 351.0 | 386.0 | 415.7 | 433.5 | 443.0 |
| 85° | 31.5 | 32.1 | 53.4 | 104.5 | 140.2 | 151.4 | 162.1 | 170.4 | 179.9 | 173.4 | 173.4 |
| 87.5° | 12.5 | 13.7 | 27.3 | 49.3 | 67.7 | 75.4 | 75.4 | 75.4 | 74.8 | 65.9 | 60.0 |
| 90° | 2.4 | 3.6 | 5.3 | 10.1 | 8.9 | 8.9 | 8.3 | 7.1 | 6.5 | 7.1 | 4.2 |
| 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: P226609

CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7050

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 |



REPORT NUMBER: P226609

CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7050

CANDELA DISTRIBUTION (continued):

| | 37° | 38° | 39° | 40° | 41° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 |
| 2.5° | 592.7 | 593.3 | 592.1 | 594.5 | 592.7 | 592.7 | 595.7 | 601.0 | 605.2 | 606.4 | 609.9 |
| 5° | 576.1 | 576.7 | 576.7 | 577.3 | 576.7 | 577.8 | 583.2 | 587.9 | 596.3 | 600.4 | 605.8 |
| 7.5° | 554.7 | 556.5 | 555.9 | 557.1 | 557.1 | 558.2 | 566.6 | 574.3 | 582.6 | 590.3 | 596.8 |
| 10° | 529.1 | 530.3 | 532.7 | 531.5 | 531.5 | 535.1 | 544.0 | 555.3 | 565.4 | 576.7 | 584.4 |
| 12.5° | 498.9 | 501.8 | 501.2 | 503.6 | 504.8 | 507.2 | 522.0 | 534.5 | 547.0 | 560.0 | 570.1 |
| 15° | 475.1 | 476.9 | 478.1 | 478.7 | 478.7 | 484.0 | 498.9 | 514.3 | 530.9 | 546.4 | 557.1 |
| 17.5° | 459.7 | 459.7 | 460.9 | 461.4 | 462.6 | 466.2 | 481.6 | 498.9 | 517.9 | 536.9 | 548.7 |
| 20° | 450.8 | 450.8 | 451.3 | 451.9 | 451.9 | 456.1 | 470.4 | 490.0 | 510.7 | 535.1 | 549.3 |
| 22.5° | 457.9 | 456.1 | 455.5 | 455.5 | 453.1 | 453.1 | 466.8 | 487.6 | 513.7 | 545.2 | 563.6 |
| 25° | 506.6 | 501.2 | 492.9 | 491.1 | 488.2 | 473.9 | 472.1 | 495.9 | 528.0 | 567.2 | 595.1 |
| 27.5° | 579.6 | 574.3 | 568.9 | 562.4 | 557.7 | 531.5 | 495.9 | 517.3 | 555.3 | 611.1 | 645.5 |
| 30° | 675.2 | 664.6 | 656.8 | 649.7 | 628.9 | 600.4 | 545.2 | 550.5 | 597.4 | 672.3 | 715.6 |
| 32.5° | 782.1 | 770.9 | 759.0 | 742.4 | 737.0 | 690.7 | 620.0 | 605.8 | 650.9 | 743.5 | 788.7 |
| 35° | 885.5 | 880.1 | 871.8 | 865.3 | 852.8 | 814.2 | 717.4 | 672.3 | 712.7 | 827.3 | 862.3 |
| 37.5° | 1005.4 | 995.3 | 995.9 | 990.6 | 983.5 | 950.8 | 818.4 | 752.4 | 779.2 | 907.4 | 929.4 |
| 40° | 1123.6 | 1121.2 | 1124.8 | 1115.9 | 1104.0 | 1060.1 | 892.6 | 811.2 | 848.7 | 984.7 | 979.3 |
| 42.5° | 1235.3 | 1237.1 | 1232.9 | 1222.8 | 1209.7 | 1136.1 | 940.1 | 861.1 | 911.0 | 1052.4 | 1019.1 |
| 45° | 1363.0 | 1356.4 | 1339.2 | 1321.4 | 1305.3 | 1201.4 | 965.6 | 917.0 | 971.0 | 1125.4 | 1059.5 |
| 47.5° | 1483.5 | 1458.0 | 1443.1 | 1415.8 | 1384.3 | 1260.8 | 1000.1 | 975.7 | 1037.5 | 1194.3 | 1098.1 |
| 50° | 1572.0 | 1548.2 | 1523.3 | 1490.0 | 1456.8 | 1312.5 | 1045.8 | 1042.3 | 1112.9 | 1271.5 | 1150.9 |
| 52.5° | 1612.4 | 1590.4 | 1566.1 | 1532.2 | 1499.0 | 1349.9 | 1107.0 | 1107.0 | 1202.0 | 1373.6 | 1224.0 |
| 55° | 1605.9 | 1589.8 | 1568.4 | 1537.6 | 1512.0 | 1370.1 | 1169.9 | 1178.3 | 1313.7 | 1484.1 | 1308.3 |
| 57.5° | 1571.4 | 1562.5 | 1550.0 | 1528.6 | 1507.9 | 1385.5 | 1244.2 | 1249.5 | 1463.3 | 1590.4 | 1387.9 |
| 60° | 1559.5 | 1556.0 | 1548.8 | 1536.4 | 1520.3 | 1419.4 | 1323.2 | 1335.0 | 1630.8 | 1687.8 | 1433.0 |
| 62.5° | 1612.4 | 1605.3 | 1599.9 | 1587.4 | 1572.6 | 1502.5 | 1422.3 | 1425.9 | 1788.2 | 1699.7 | 1389.1 |
| 65° | 1760.9 | 1747.8 | 1738.9 | 1722.3 | 1705.6 | 1627.8 | 1548.8 | 1510.2 | 1865.4 | 1588.6 | 1240.0 |
| 67.5° | 2072.0 | 2050.7 | 2025.1 | 1993.7 | 1947.9 | 1877.8 | 1674.1 | 1522.1 | 1795.3 | 1345.7 | 978.1 |
| 70° | 2687.3 | 2641.0 | 2582.2 | 2515.1 | 2497.9 | 2293.6 | 1752.5 | 1434.2 | 1492.4 | 940.1 | 648.5 |
| 72.5° | 3514.0 | 3465.9 | 3413.6 | 3358.4 | 3249.1 | 2800.1 | 1718.1 | 1156.9 | 928.2 | 483.4 | 308.8 |
| 73° | 3527.6 | 3495.0 | 3432.0 | 3367.9 | 3278.8 | 2791.2 | 1680.7 | 1066.6 | 818.4 | 380.7 | 253.0 |
| 75° | 3163.6 | 3150.5 | 3088.8 | 2965.2 | 2889.8 | 2357.7 | 1237.6 | 618.2 | 358.1 | 235.2 | 164.5 |
| 77.5° | 2053.0 | 2038.8 | 2003.8 | 1991.9 | 1852.9 | 1528.6 | 554.1 | 240.5 | 194.8 | 156.2 | 116.4 |
| 80° | 1093.9 | 1027.4 | 1015.5 | 968.0 | 866.5 | 588.5 | 189.4 | 147.3 | 129.5 | 104.5 | 81.4 |
| 82.5° | 443.6 | 415.1 | 404.4 | 366.4 | 344.5 | 176.4 | 95.0 | 102.1 | 86.7 | 61.8 | 49.9 |
| 85° | 163.3 | 150.3 | 146.7 | 119.4 | 105.1 | 52.3 | 58.2 | 71.9 | 54.0 | 34.4 | 24.9 |
| 87.5° | 56.4 | 48.7 | 42.2 | 32.7 | 30.3 | 21.4 | 32.1 | 39.2 | 34.4 | 20.8 | 11.9 |
| 90° | 4.2 | 3.6 | 3.0 | 2.4 | 3.0 | 2.4 | 3.6 | 5.3 | 5.9 | 3.6 | 2.4 |
| 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: P226609

CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7050

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: P226609

CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7050

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 |
| 2.5° | 611.1 | 613.5 | 618.2 | 621.8 | 624.8 | 628.9 | 630.1 | 632.5 | 629.5 | 633.1 |
| 5° | 608.7 | 615.9 | 624.8 | 633.1 | 640.8 | 647.3 | 650.3 | 650.9 | 651.5 | 653.9 |
| 7.5° | 602.8 | 613.5 | 627.7 | 639.0 | 650.9 | 655.0 | 656.8 | 657.4 | 653.3 | 655.0 |
| 10° | 590.9 | 608.1 | 625.9 | 639.6 | 645.5 | 642.6 | 637.8 | 630.1 | 626.5 | 626.5 |
| 12.5° | 577.8 | 599.8 | 620.6 | 628.3 | 623.0 | 611.7 | 598.6 | 584.4 | 579.0 | 579.0 |
| 15° | 567.2 | 595.1 | 612.3 | 606.9 | 591.5 | 570.1 | 552.3 | 537.5 | 532.7 | 530.9 |
| 17.5° | 561.2 | 592.7 | 599.2 | 582.6 | 556.5 | 529.7 | 511.9 | 499.5 | 495.3 | 495.3 |
| 20° | 566.0 | 595.1 | 584.4 | 553.5 | 520.8 | 496.5 | 481.0 | 472.7 | 468.6 | 470.4 |
| 22.5° | 586.2 | 604.0 | 571.3 | 525.0 | 485.2 | 464.4 | 457.3 | 451.9 | 451.3 | 452.5 |
| 25° | 620.0 | 615.9 | 560.0 | 495.3 | 451.9 | 437.1 | 436.5 | 434.7 | 434.1 | 433.5 |
| 27.5° | 664.0 | 630.7 | 546.4 | 462.0 | 418.7 | 411.6 | 415.1 | 414.5 | 413.9 | 414.5 |
| 30° | 722.2 | 643.8 | 526.2 | 425.8 | 387.2 | 387.2 | 392.6 | 390.8 | 388.4 | 389.0 |
| 32.5° | 776.2 | 653.3 | 495.3 | 385.4 | 362.3 | 363.5 | 365.2 | 360.5 | 354.5 | 355.7 |
| 35° | 822.5 | 653.3 | 453.7 | 349.2 | 336.7 | 336.7 | 337.9 | 333.8 | 329.0 | 327.2 |
| 37.5° | 861.1 | 640.2 | 401.5 | 321.9 | 315.9 | 315.9 | 320.7 | 316.5 | 307.6 | 305.8 |
| 40° | 884.3 | 611.7 | 353.4 | 301.7 | 305.8 | 306.4 | 299.9 | 292.8 | 284.5 | 282.7 |
| 42.5° | 899.1 | 570.1 | 315.4 | 287.4 | 299.3 | 294.6 | 279.1 | 267.8 | 267.2 | 269.6 |
| 45° | 912.2 | 523.2 | 285.1 | 273.2 | 292.2 | 282.1 | 261.3 | 250.6 | 254.2 | 256.6 |
| 47.5° | 925.3 | 476.3 | 260.7 | 257.2 | 279.1 | 272.0 | 250.0 | 238.1 | 236.4 | 239.9 |
| 50° | 956.1 | 411.0 | 232.8 | 238.1 | 263.1 | 260.7 | 239.9 | 226.3 | 215.0 | 214.4 |
| 52.5° | 997.7 | 323.7 | 209.0 | 221.5 | 250.6 | 254.2 | 228.6 | 215.6 | 200.1 | 197.8 |
| 55° | 1044.0 | 248.2 | 189.4 | 208.5 | 238.7 | 244.7 | 224.5 | 204.9 | 188.3 | 185.9 |
| 57.5° | 1057.7 | 196.0 | 171.0 | 190.0 | 222.7 | 235.8 | 218.0 | 192.4 | 179.9 | 177.6 |
| 60° | 1010.8 | 162.7 | 155.6 | 174.6 | 206.7 | 226.9 | 207.9 | 182.9 | 171.6 | 169.8 |
| 62.5° | 867.7 | 143.7 | 147.3 | 164.5 | 194.8 | 218.5 | 200.1 | 175.8 | 166.9 | 165.7 |
| 65° | 662.2 | 130.7 | 140.2 | 156.2 | 184.1 | 210.8 | 194.8 | 172.8 | 165.7 | 164.5 |
| 67.5° | 415.7 | 121.2 | 133.0 | 147.3 | 173.4 | 202.5 | 190.6 | 169.3 | 163.9 | 162.1 |
| 70° | 230.4 | 111.1 | 123.5 | 137.2 | 162.7 | 194.8 | 185.3 | 163.9 | 163.3 | 159.8 |
| 72.5° | 140.2 | 100.4 | 113.4 | 126.5 | 150.8 | 185.3 | 175.8 | 157.4 | 151.4 | 144.3 |
| 73° | 133.6 | 99.2 | 111.1 | 124.1 | 147.9 | 182.9 | 174.0 | 155.0 | 149.1 | 141.9 |
| 75° | 108.1 | 89.1 | 101.6 | 112.8 | 137.2 | 173.4 | 163.9 | 146.7 | 137.2 | 131.8 |
| 77.5° | 79.6 | 76.0 | 87.9 | 98.6 | 123.5 | 160.3 | 149.7 | 134.2 | 122.9 | 120.0 |
| 80° | 58.8 | 63.0 | 74.2 | 83.7 | 108.7 | 147.3 | 134.8 | 120.0 | 112.8 | 109.3 |
| 82.5° | 39.8 | 48.7 | 59.4 | 67.1 | 96.2 | 133.0 | 119.4 | 105.1 | 109.9 | 91.5 |
| 85° | 23.2 | 33.9 | 42.8 | 52.3 | 77.2 | 118.8 | 103.9 | 89.7 | 78.4 | 70.7 |
| 87.5° | 15.4 | 19.0 | 26.1 | 35.6 | 55.8 | 93.2 | 82.5 | 70.1 | 51.1 | 51.1 |
| 90° | 1.8 | 2.4 | 3.6 | 4.2 | 7.7 | 39.8 | 27.3 | 32.7 | 5.9 | 5.3 |
| 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: P226609
 CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7050

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)