

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: P226595

Luminaire Tested: **IST-AF-600-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226595
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-7030
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3669.1 lumens
Efficiency: N/A
Efficacy: 108.9 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

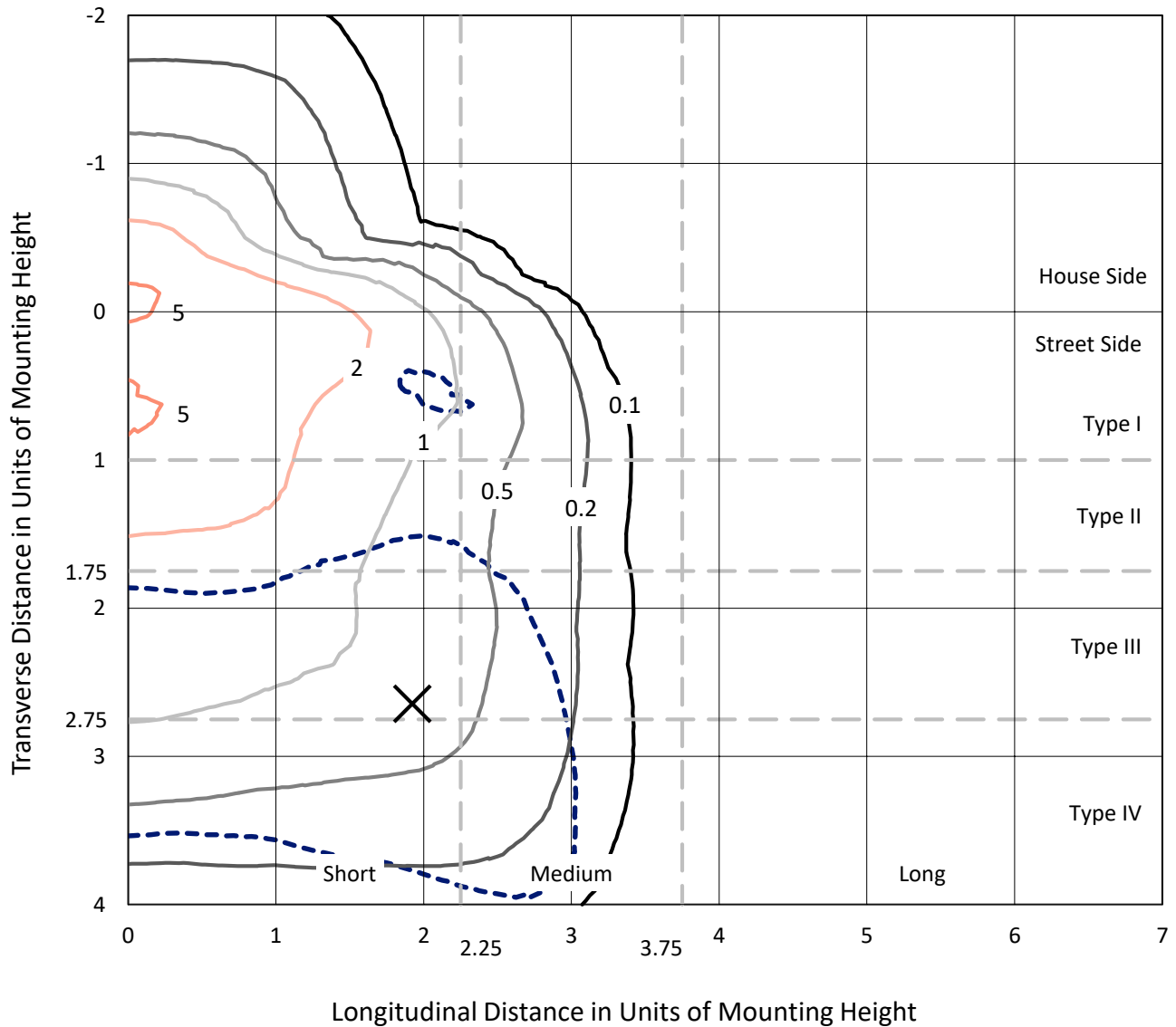
Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7030

Iso-Footcandle Lines of Horizontal Illumination

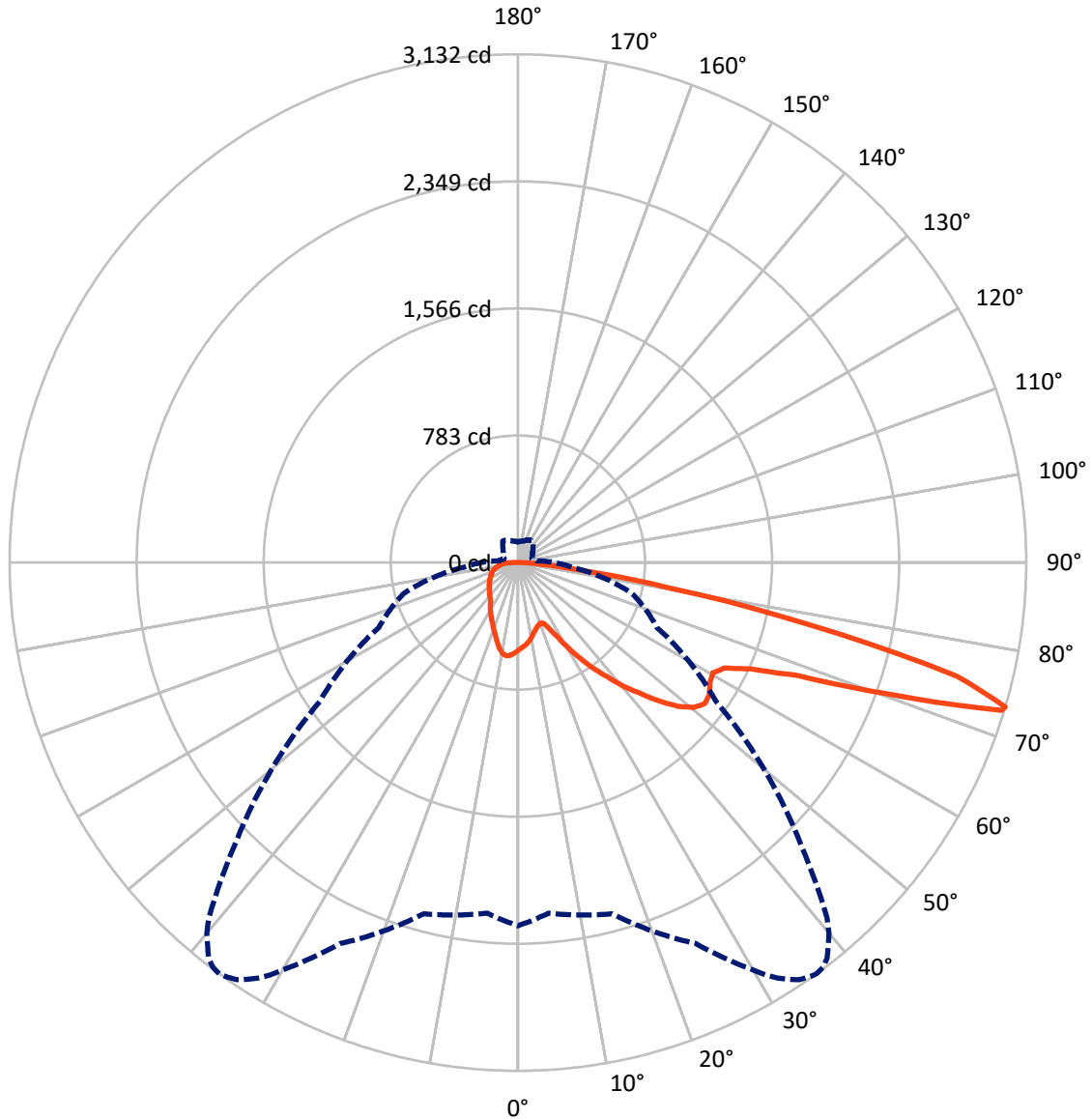
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 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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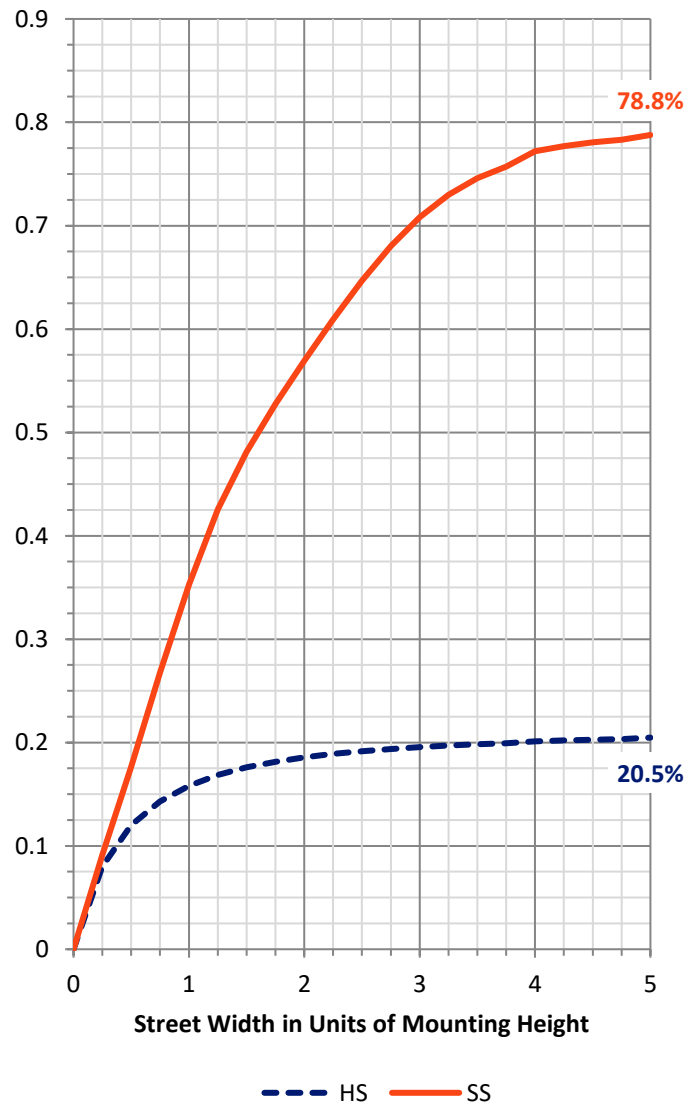
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 773.6 | 0.8 | 774.5 |
| | % Fixture | 21.1 | 0.0 | 21.1 |
| Street Side | Lumens | 2894.3 | 0.3 | 2894.6 |
| | % Fixture | 78.9 | 0.0 | 78.9 |
| Total | Lumens | 3667.9 | 1.1 | 3669.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.7 | 1.4 |
| 10°-20° | 134.4 | 3.7 |
| 20°-30° | 220.3 | 6.0 |
| 30°-40° | 365.0 | 9.9 |
| 40°-50° | 536.3 | 14.6 |
| 50°-60° | 676.3 | 18.4 |
| 60°-70° | 885.6 | 24.1 |
| 70°-80° | 716.9 | 19.5 |
| 80°-90° | 82.5 | 2.2 |
| 90°-100° | 1.1 | 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° | 3667.9 | 100.0 |
| 0°-180° | 3669.1 | 100.0 |



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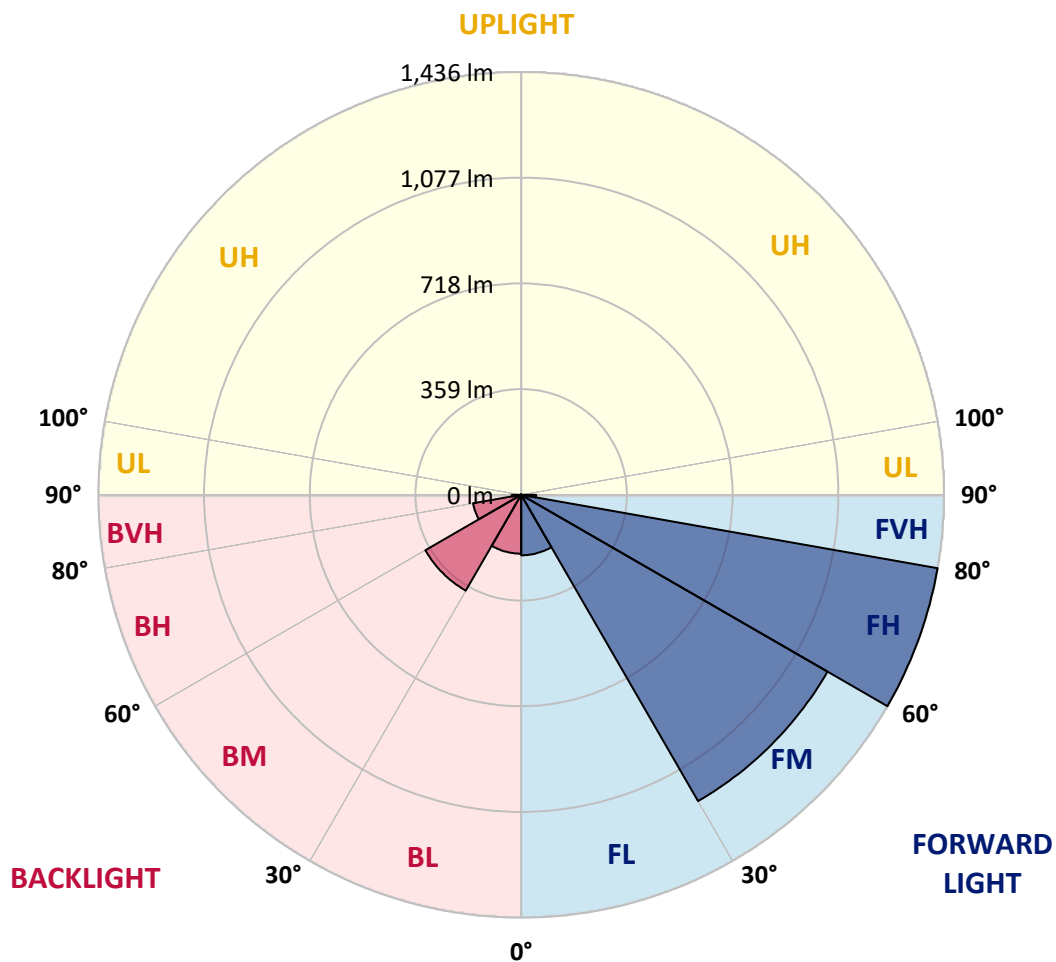
CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 205.4 | 5.6 | | | |
| FM | (30°-60°) | 1201.6 | 32.7 | | | |
| FH | (60°-80°) | 1436.5 | 39.2 | | | G1/1800 |
| FVH | (80°-90°) | 50.9 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 200.0 | 5.5 | B1/500 | | |
| BM | (30°-60°) | 376.0 | 10.2 | B1/1000 | | |
| BH | (60°-80°) | 166.0 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 31.6 | 0.9 | | | G1/100 |
| UL | (90°-100°) | 1.1 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 0.8 | 0.0 | | U1/10 | |

BUG Rating: B1-U1-G1

Type IV Short





REPORT NUMBER: P226595

CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 30° | 31° | 32° | 33° | 34° | 35° | 36° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 |
| 2.5° | 519.4 | 520.4 | 521.5 | 521.5 | 521.5 | 523.1 | 522.5 | 522.5 | 523.1 | 523.6 | 523.6 |
| 5° | 499.9 | 500.5 | 503.6 | 504.7 | 507.8 | 507.3 | 507.3 | 507.3 | 509.4 | 507.8 | 508.9 |
| 7.5° | 477.9 | 478.9 | 482.1 | 485.7 | 488.4 | 488.9 | 488.4 | 487.3 | 490.0 | 491.0 | 490.0 |
| 10° | 451.6 | 452.1 | 456.3 | 459.5 | 463.7 | 463.1 | 464.7 | 464.7 | 465.8 | 465.2 | 467.3 |
| 12.5° | 438.4 | 437.4 | 435.3 | 436.9 | 437.9 | 437.9 | 437.9 | 439.5 | 439.0 | 440.0 | 441.6 |
| 15° | 436.9 | 434.2 | 423.7 | 420.0 | 419.0 | 419.0 | 418.5 | 417.9 | 419.5 | 421.1 | 421.1 |
| 17.5° | 444.2 | 439.0 | 418.5 | 407.9 | 405.8 | 404.8 | 405.3 | 404.3 | 404.3 | 406.4 | 405.8 |
| 20° | 480.0 | 470.5 | 429.5 | 406.4 | 400.1 | 400.1 | 399.5 | 398.0 | 398.0 | 398.5 | 398.5 |
| 22.5° | 570.9 | 558.8 | 487.3 | 439.5 | 417.4 | 416.9 | 415.3 | 413.7 | 409.5 | 408.5 | 406.4 |
| 25° | 697.6 | 683.4 | 560.9 | 509.4 | 478.4 | 477.3 | 469.5 | 468.4 | 458.4 | 458.9 | 452.1 |
| 27.5° | 795.9 | 786.5 | 659.2 | 590.9 | 561.5 | 555.1 | 551.5 | 542.0 | 533.6 | 526.8 | 518.3 |
| 30° | 829.6 | 828.0 | 758.6 | 703.4 | 659.2 | 651.9 | 641.9 | 637.7 | 625.6 | 616.1 | 610.3 |
| 32.5° | 882.7 | 884.2 | 855.3 | 794.3 | 756.0 | 748.6 | 740.2 | 730.2 | 721.8 | 715.5 | 701.8 |
| 35° | 958.4 | 958.9 | 938.9 | 893.2 | 849.0 | 839.0 | 834.3 | 822.7 | 814.8 | 807.0 | 800.1 |
| 37.5° | 1010.9 | 1013.6 | 999.4 | 964.1 | 937.9 | 923.7 | 923.1 | 914.7 | 905.8 | 899.0 | 892.6 |
| 40° | 1111.9 | 1097.7 | 1050.9 | 1028.3 | 1006.7 | 1005.1 | 1000.4 | 995.7 | 997.8 | 994.1 | 1000.9 |
| 42.5° | 1213.8 | 1196.0 | 1130.8 | 1098.7 | 1085.6 | 1088.2 | 1086.6 | 1087.2 | 1093.5 | 1091.9 | 1099.2 |
| 45° | 1301.1 | 1280.6 | 1218.6 | 1180.7 | 1191.2 | 1194.4 | 1203.3 | 1208.6 | 1206.0 | 1215.4 | 1215.4 |
| 47.5° | 1388.4 | 1340.5 | 1266.9 | 1284.3 | 1291.7 | 1315.8 | 1322.1 | 1320.6 | 1329.5 | 1333.7 | 1322.1 |
| 50° | 1326.9 | 1314.3 | 1308.5 | 1361.6 | 1394.7 | 1402.6 | 1411.5 | 1416.2 | 1420.4 | 1414.7 | 1403.1 |
| 52.5° | 1197.0 | 1196.0 | 1277.5 | 1407.3 | 1435.2 | 1445.7 | 1454.1 | 1457.8 | 1456.2 | 1453.0 | 1443.6 |
| 55° | 1153.4 | 1145.0 | 1215.4 | 1360.0 | 1402.6 | 1412.6 | 1424.7 | 1432.0 | 1439.4 | 1438.3 | 1431.0 |
| 57.5° | 1212.8 | 1206.0 | 1206.5 | 1318.5 | 1360.0 | 1368.9 | 1376.8 | 1385.2 | 1387.3 | 1394.2 | 1394.7 |
| 60° | 1385.2 | 1376.3 | 1304.3 | 1316.9 | 1358.9 | 1368.9 | 1370.0 | 1374.7 | 1375.2 | 1378.9 | 1379.4 |
| 62.5° | 1633.9 | 1617.6 | 1507.7 | 1413.1 | 1427.8 | 1432.5 | 1436.2 | 1435.2 | 1433.1 | 1430.4 | 1430.4 |
| 65° | 1906.2 | 1891.0 | 1749.5 | 1639.1 | 1596.6 | 1608.1 | 1589.7 | 1586.0 | 1581.8 | 1581.8 | 1577.1 |
| 67.5° | 2230.0 | 2201.1 | 2091.8 | 1967.7 | 1906.2 | 1912.0 | 1920.4 | 1888.3 | 1876.8 | 1877.8 | 1853.1 |
| 70° | 2560.2 | 2529.7 | 2481.8 | 2480.3 | 2511.3 | 2497.6 | 2458.7 | 2510.2 | 2449.2 | 2434.5 | 2429.3 |
| 72.5° | 2377.8 | 2341.5 | 2351.5 | 2648.5 | 2927.1 | 2972.3 | 3015.4 | 3055.4 | 3091.1 | 3112.7 | 3115.8 |
| 73° | 2237.9 | 2169.0 | 2240.5 | 2589.6 | 2898.7 | 2965.5 | 3019.1 | 3061.7 | 3100.1 | 3119.5 | 3131.6 |
| 75° | 1117.6 | 1121.3 | 1473.5 | 2136.5 | 2533.4 | 2590.7 | 2674.3 | 2721.0 | 2790.4 | 2826.2 | 2794.6 |
| 77.5° | 259.2 | 268.6 | 446.3 | 1014.1 | 1518.8 | 1600.8 | 1667.5 | 1735.9 | 1816.3 | 1846.3 | 1820.0 |
| 80° | 91.5 | 95.7 | 157.2 | 385.3 | 634.0 | 679.2 | 736.5 | 811.7 | 886.3 | 904.7 | 951.0 |
| 82.5° | 48.4 | 53.1 | 83.1 | 167.2 | 270.7 | 296.0 | 310.7 | 341.7 | 368.0 | 383.8 | 392.2 |
| 85° | 27.9 | 28.4 | 47.3 | 92.5 | 124.1 | 134.1 | 143.5 | 150.9 | 159.3 | 153.5 | 153.5 |
| 87.5° | 11.0 | 12.1 | 24.2 | 43.6 | 59.9 | 66.8 | 66.8 | 66.8 | 66.2 | 58.4 | 53.1 |
| 90° | 2.1 | 3.2 | 4.7 | 8.9 | 7.9 | 7.9 | 7.4 | 6.3 | 5.8 | 6.3 | 3.7 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P226595

CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7030

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: P226595

CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7030

CANDELA DISTRIBUTION (continued):

| | 37° | 38° | 39° | 40° | 41° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 |
| 2.5° | 524.7 | 525.2 | 524.1 | 526.2 | 524.7 | 524.7 | 527.3 | 532.0 | 535.7 | 536.7 | 539.9 |
| 5° | 509.9 | 510.5 | 510.5 | 511.0 | 510.5 | 511.5 | 516.2 | 520.4 | 527.8 | 531.5 | 536.2 |
| 7.5° | 491.0 | 492.6 | 492.1 | 493.1 | 493.1 | 494.2 | 501.5 | 508.4 | 515.7 | 522.5 | 528.3 |
| 10° | 468.4 | 469.5 | 471.6 | 470.5 | 470.5 | 473.7 | 481.5 | 491.5 | 500.5 | 510.5 | 517.3 |
| 12.5° | 441.6 | 444.2 | 443.7 | 445.8 | 446.8 | 449.0 | 462.1 | 473.1 | 484.2 | 495.7 | 504.7 |
| 15° | 420.6 | 422.1 | 423.2 | 423.7 | 423.7 | 428.4 | 441.6 | 455.3 | 470.0 | 483.6 | 493.1 |
| 17.5° | 406.9 | 406.9 | 407.9 | 408.5 | 409.5 | 412.7 | 426.3 | 441.6 | 458.4 | 475.2 | 485.7 |
| 20° | 399.0 | 399.0 | 399.5 | 400.1 | 400.1 | 403.7 | 416.4 | 433.7 | 452.1 | 473.7 | 486.3 |
| 22.5° | 405.3 | 403.7 | 403.2 | 403.2 | 401.1 | 401.1 | 413.2 | 431.6 | 454.7 | 482.6 | 498.9 |
| 25° | 448.4 | 443.7 | 436.3 | 434.8 | 432.1 | 419.5 | 417.9 | 439.0 | 467.3 | 502.0 | 526.8 |
| 27.5° | 513.1 | 508.4 | 503.6 | 497.8 | 493.6 | 470.5 | 439.0 | 457.9 | 491.5 | 540.9 | 571.4 |
| 30° | 597.7 | 588.3 | 581.4 | 575.1 | 556.7 | 531.5 | 482.6 | 487.3 | 528.9 | 595.1 | 633.5 |
| 32.5° | 692.4 | 682.4 | 671.8 | 657.1 | 652.4 | 611.4 | 548.8 | 536.2 | 576.2 | 658.2 | 698.1 |
| 35° | 783.8 | 779.1 | 771.7 | 765.9 | 754.9 | 720.7 | 635.0 | 595.1 | 630.8 | 732.3 | 763.3 |
| 37.5° | 890.0 | 881.1 | 881.6 | 876.9 | 870.6 | 841.7 | 724.4 | 666.1 | 689.7 | 803.3 | 822.7 |
| 40° | 994.6 | 992.5 | 995.7 | 987.8 | 977.3 | 938.4 | 790.1 | 718.1 | 751.2 | 871.6 | 866.9 |
| 42.5° | 1093.5 | 1095.0 | 1091.4 | 1082.4 | 1070.9 | 1005.7 | 832.2 | 762.3 | 806.4 | 931.5 | 902.1 |
| 45° | 1206.5 | 1200.7 | 1185.5 | 1169.7 | 1155.5 | 1063.5 | 854.8 | 811.7 | 859.5 | 996.2 | 937.9 |
| 47.5° | 1313.2 | 1290.6 | 1277.5 | 1253.3 | 1225.4 | 1116.1 | 885.3 | 863.7 | 918.4 | 1057.2 | 972.0 |
| 50° | 1391.5 | 1370.5 | 1348.4 | 1319.0 | 1289.5 | 1161.8 | 925.8 | 922.6 | 985.2 | 1125.5 | 1018.8 |
| 52.5° | 1427.3 | 1407.8 | 1386.3 | 1356.3 | 1326.9 | 1194.9 | 979.9 | 979.9 | 1064.0 | 1216.0 | 1083.5 |
| 55° | 1421.5 | 1407.3 | 1388.4 | 1361.0 | 1338.4 | 1212.8 | 1035.6 | 1043.0 | 1162.9 | 1313.7 | 1158.1 |
| 57.5° | 1391.0 | 1383.1 | 1372.1 | 1353.2 | 1334.8 | 1226.5 | 1101.3 | 1106.1 | 1295.3 | 1407.8 | 1228.6 |
| 60° | 1380.5 | 1377.3 | 1371.0 | 1360.0 | 1345.8 | 1256.4 | 1171.3 | 1181.8 | 1443.6 | 1494.0 | 1268.5 |
| 62.5° | 1427.3 | 1421.0 | 1416.2 | 1405.2 | 1392.1 | 1330.0 | 1259.1 | 1262.2 | 1582.9 | 1504.6 | 1229.6 |
| 65° | 1558.7 | 1547.1 | 1539.3 | 1524.5 | 1509.8 | 1441.0 | 1371.0 | 1336.9 | 1651.2 | 1406.3 | 1097.7 |
| 67.5° | 1834.2 | 1815.3 | 1792.6 | 1764.8 | 1724.3 | 1662.3 | 1482.0 | 1347.4 | 1589.2 | 1191.2 | 865.8 |
| 70° | 2378.8 | 2337.8 | 2285.8 | 2226.4 | 2211.1 | 2030.3 | 1551.3 | 1269.6 | 1321.1 | 832.2 | 574.1 |
| 72.5° | 3110.6 | 3068.0 | 3021.7 | 2972.8 | 2876.1 | 2478.7 | 1520.9 | 1024.1 | 821.7 | 427.9 | 273.4 |
| 73° | 3122.7 | 3093.8 | 3038.0 | 2981.3 | 2902.4 | 2470.8 | 1487.7 | 944.2 | 724.4 | 337.0 | 223.9 |
| 75° | 2800.4 | 2788.9 | 2734.2 | 2624.8 | 2558.1 | 2087.0 | 1095.6 | 547.3 | 317.0 | 208.2 | 145.6 |
| 77.5° | 1817.4 | 1804.7 | 1773.7 | 1763.2 | 1640.2 | 1353.2 | 490.5 | 212.9 | 172.4 | 138.3 | 103.0 |
| 80° | 968.3 | 909.5 | 899.0 | 856.9 | 767.0 | 521.0 | 167.7 | 130.4 | 114.6 | 92.5 | 72.0 |
| 82.5° | 392.7 | 367.5 | 358.0 | 324.4 | 304.9 | 156.1 | 84.1 | 90.4 | 76.8 | 54.7 | 44.2 |
| 85° | 144.6 | 133.0 | 129.8 | 105.7 | 93.0 | 46.3 | 51.5 | 63.6 | 47.8 | 30.5 | 22.1 |
| 87.5° | 49.9 | 43.1 | 37.3 | 28.9 | 26.8 | 18.9 | 28.4 | 34.7 | 30.5 | 18.4 | 10.5 |
| 90° | 3.7 | 3.2 | 2.6 | 2.1 | 2.6 | 2.1 | 3.2 | 4.7 | 5.3 | 3.2 | 2.1 |
| 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: P226595

CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7030

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: P226595

CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7030

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 | 538.8 |
| 2.5° | 540.9 | 543.1 | 547.3 | 550.4 | 553.0 | 556.7 | 557.8 | 559.9 | 557.2 | 560.4 |
| 5° | 538.8 | 545.2 | 553.0 | 560.4 | 567.2 | 573.0 | 575.6 | 576.2 | 576.7 | 578.8 |
| 7.5° | 533.6 | 543.1 | 555.7 | 565.7 | 576.2 | 579.9 | 581.4 | 582.0 | 578.3 | 579.9 |
| 10° | 523.1 | 538.3 | 554.1 | 566.2 | 571.4 | 568.8 | 564.6 | 557.8 | 554.6 | 554.6 |
| 12.5° | 511.5 | 531.0 | 549.4 | 556.2 | 551.5 | 541.5 | 529.9 | 517.3 | 512.6 | 512.6 |
| 15° | 502.0 | 526.8 | 542.0 | 537.3 | 523.6 | 504.7 | 488.9 | 475.8 | 471.6 | 470.0 |
| 17.5° | 496.8 | 524.7 | 530.4 | 515.7 | 492.6 | 468.9 | 453.2 | 442.1 | 438.4 | 438.4 |
| 20° | 501.0 | 526.8 | 517.3 | 490.0 | 461.0 | 439.5 | 425.8 | 418.5 | 414.8 | 416.4 |
| 22.5° | 518.9 | 534.6 | 505.7 | 464.7 | 429.5 | 411.1 | 404.8 | 400.1 | 399.5 | 400.6 |
| 25° | 548.8 | 545.2 | 495.7 | 438.4 | 400.1 | 386.9 | 386.4 | 384.8 | 384.3 | 383.8 |
| 27.5° | 587.7 | 558.3 | 483.6 | 409.0 | 370.6 | 364.3 | 367.5 | 366.9 | 366.4 | 366.9 |
| 30° | 639.3 | 569.9 | 465.8 | 376.9 | 342.8 | 342.8 | 347.5 | 345.9 | 343.8 | 344.3 |
| 32.5° | 687.1 | 578.3 | 438.4 | 341.2 | 320.7 | 321.7 | 323.3 | 319.1 | 313.8 | 314.9 |
| 35° | 728.1 | 578.3 | 401.6 | 309.1 | 298.1 | 298.1 | 299.1 | 295.4 | 291.2 | 289.7 |
| 37.5° | 762.3 | 566.7 | 355.4 | 284.9 | 279.7 | 279.7 | 283.9 | 280.2 | 272.3 | 270.7 |
| 40° | 782.8 | 541.5 | 312.8 | 267.1 | 270.7 | 271.3 | 265.5 | 259.2 | 251.8 | 250.2 |
| 42.5° | 795.9 | 504.7 | 279.1 | 254.4 | 265.0 | 260.7 | 247.1 | 237.1 | 236.6 | 238.7 |
| 45° | 807.5 | 463.1 | 252.3 | 241.8 | 258.6 | 249.7 | 231.3 | 221.8 | 225.0 | 227.1 |
| 47.5° | 819.0 | 421.6 | 230.8 | 227.6 | 247.1 | 240.8 | 221.3 | 210.8 | 209.2 | 212.4 |
| 50° | 846.4 | 363.8 | 206.1 | 210.8 | 232.9 | 230.8 | 212.4 | 200.3 | 190.3 | 189.8 |
| 52.5° | 883.2 | 286.5 | 185.0 | 196.1 | 221.8 | 225.0 | 202.4 | 190.8 | 177.2 | 175.1 |
| 55° | 924.2 | 219.7 | 167.7 | 184.5 | 211.3 | 216.6 | 198.7 | 181.4 | 166.6 | 164.5 |
| 57.5° | 936.3 | 173.5 | 151.4 | 168.2 | 197.1 | 208.7 | 192.9 | 170.3 | 159.3 | 157.2 |
| 60° | 894.7 | 144.0 | 137.7 | 154.6 | 182.9 | 200.8 | 184.0 | 161.9 | 151.9 | 150.4 |
| 62.5° | 768.1 | 127.2 | 130.4 | 145.6 | 172.4 | 193.5 | 177.2 | 155.6 | 147.7 | 146.7 |
| 65° | 586.2 | 115.7 | 124.1 | 138.3 | 163.0 | 186.6 | 172.4 | 153.0 | 146.7 | 145.6 |
| 67.5° | 368.0 | 107.2 | 117.8 | 130.4 | 153.5 | 179.3 | 168.8 | 149.8 | 145.1 | 143.5 |
| 70° | 204.0 | 98.3 | 109.3 | 121.4 | 144.0 | 172.4 | 164.0 | 145.1 | 144.6 | 141.4 |
| 72.5° | 124.1 | 88.8 | 100.4 | 112.0 | 133.5 | 164.0 | 155.6 | 139.3 | 134.1 | 127.7 |
| 73° | 118.3 | 87.8 | 98.3 | 109.9 | 130.9 | 161.9 | 154.0 | 137.2 | 132.0 | 125.6 |
| 75° | 95.7 | 78.9 | 89.9 | 99.9 | 121.4 | 153.5 | 145.1 | 129.8 | 121.4 | 116.7 |
| 77.5° | 70.4 | 67.3 | 77.8 | 87.3 | 109.3 | 141.9 | 132.5 | 118.8 | 108.8 | 106.2 |
| 80° | 52.0 | 55.7 | 65.7 | 74.1 | 96.2 | 130.4 | 119.3 | 106.2 | 99.9 | 96.7 |
| 82.5° | 35.2 | 43.1 | 52.6 | 59.4 | 85.2 | 117.8 | 105.7 | 93.0 | 97.3 | 81.0 |
| 85° | 20.5 | 30.0 | 37.9 | 46.3 | 68.3 | 105.1 | 92.0 | 79.4 | 69.4 | 62.6 |
| 87.5° | 13.7 | 16.8 | 23.1 | 31.5 | 49.4 | 82.5 | 73.1 | 62.0 | 45.2 | 45.2 |
| 90° | 1.6 | 2.1 | 3.2 | 3.7 | 6.8 | 35.2 | 24.2 | 28.9 | 5.3 | 4.7 |
| 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: P226595
 CATALOG NUMBER: IST-AF-600-LED-E1-T4FT-7030

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)