

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: P226430

Luminaire Tested: **IST-AF-600-LED-E1-T3-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35938)-DOWNLIGHT AND
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-T3-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5972.6 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U5 - G1

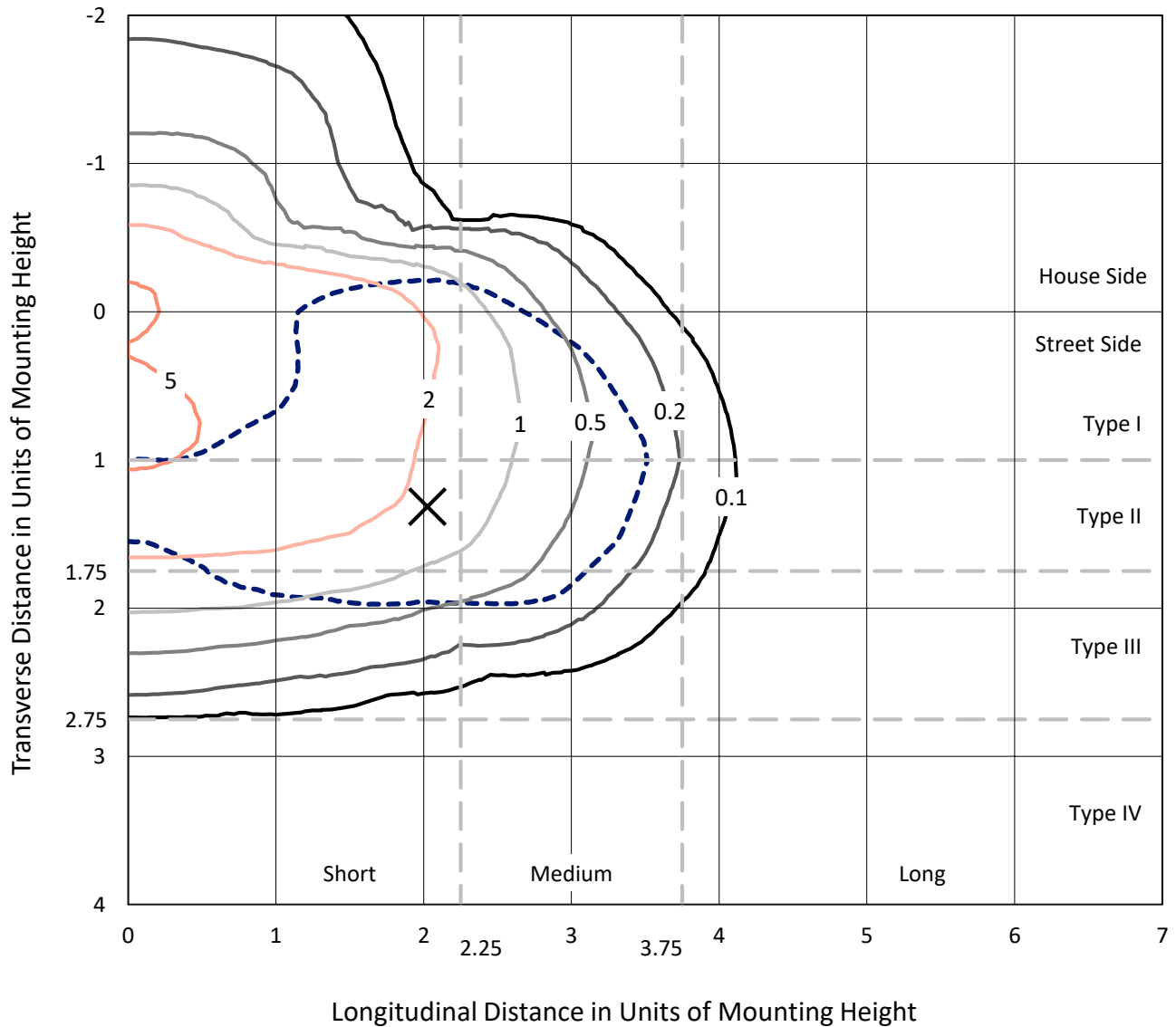
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P226430
 CATALOG NUMBER: IST-AF-600-LED-E1-T3-ULG

Iso-Footcandle Lines of Horizontal Illumination

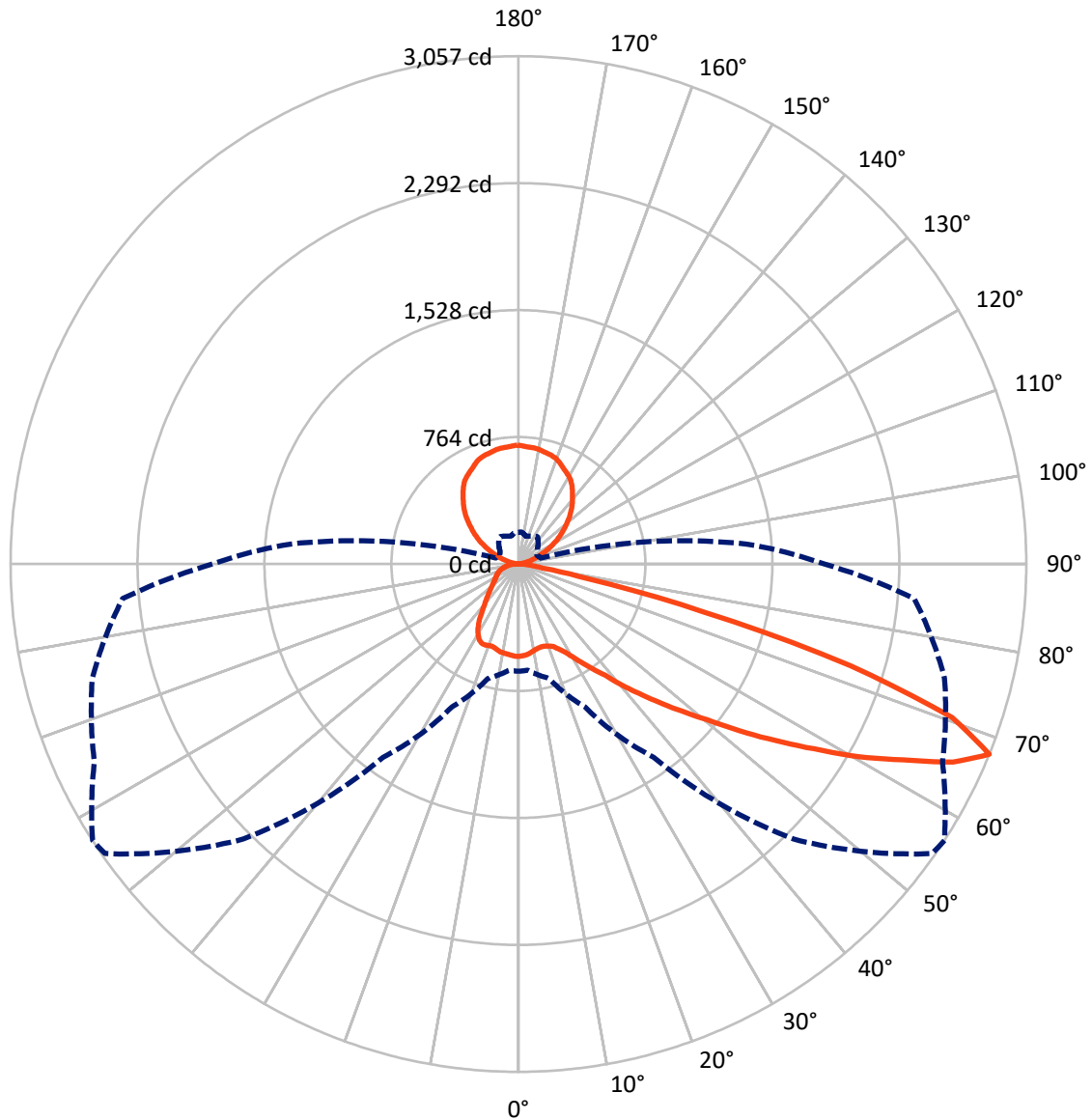
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P226430
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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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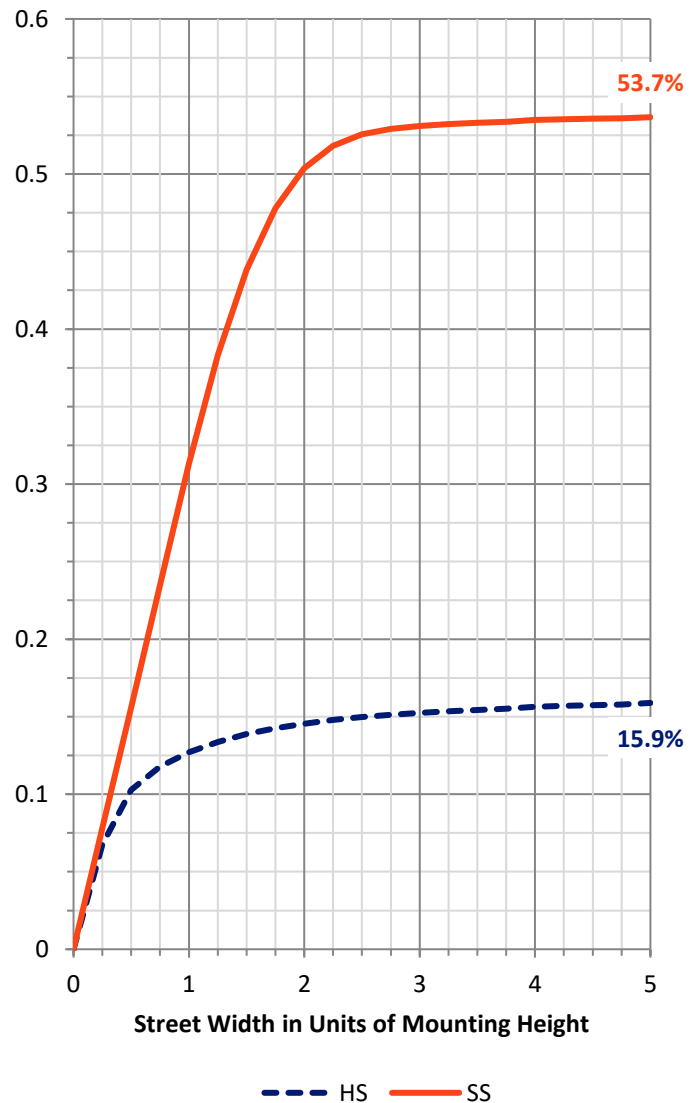
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 977.1 | 888.7 | 1865.8 |
| | % Fixture | 16.4 | 14.9 | 31.2 |
| Street Side | Lumens | 3219.0 | 887.8 | 4106.8 |
| | % Fixture | 53.9 | 14.9 | 68.8 |
| Total | Lumens | 4196.1 | 1776.5 | 5972.6 |
| | % Fixture | 70.3 | 29.7 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.0 | 0.9 |
| 10°-20° | 149.5 | 2.5 |
| 20°-30° | 257.3 | 4.3 |
| 30°-40° | 418.3 | 7.0 |
| 40°-50° | 674.7 | 11.3 |
| 50°-60° | 1005.9 | 16.8 |
| 60°-70° | 1132.9 | 19.0 |
| 70°-80° | 436.8 | 7.3 |
| 80°-90° | 68.7 | 1.2 |
| 90°-100° | 11.0 | 0.2 |
| 100°-110° | 58.7 | 1.0 |
| 110°-120° | 169.9 | 2.8 |
| 120°-130° | 279.4 | 4.7 |
| 130°-140° | 344.6 | 5.8 |
| 140°-150° | 352.5 | 5.9 |
| 150°-160° | 297.0 | 5.0 |
| 160°-170° | 195.5 | 3.3 |
| 170°-180° | 67.8 | 1.1 |
| 0°-90° | 4196.1 | 70.3 |
| 0°-180° | 5972.6 | 100.0 |



REPORT NUMBER: P226430

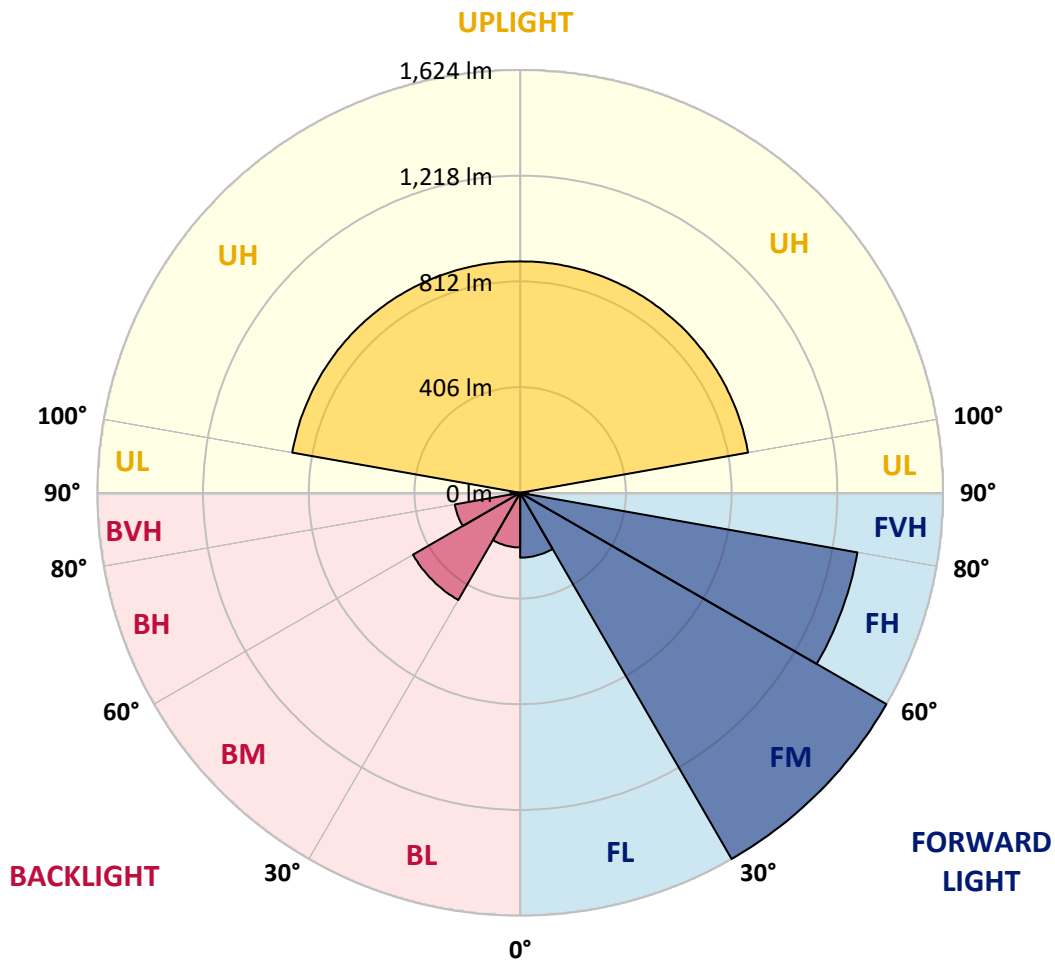
CATALOG NUMBER: IST-AF-600-LED-E1-T3-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|---------|---------|
| | | | B | U | G |
| FL (0°-30°) | 248.9 | 4.2 | | | |
| FM (30°-60°) | 1623.6 | 27.2 | | | |
| FH (60°-80°) | 1314.9 | 22.0 | | | G1/1800 |
| FVH (80°-90°) | 31.6 | 0.5 | | | G1/100 |
| BL (0°-30°) | 209.8 | 3.5 | B1/500 | | |
| BM (30°-60°) | 475.3 | 8.0 | B1/1000 | | |
| BH (60°-80°) | 254.8 | 4.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 37.1 | 0.6 | | | G1/100 |
| UL (90°-100°) | 11.0 | 0.2 | | U2/50 | |
| UH (100°-180°) | 888.7 | 14.9 | | U4/1000 | |

BUG Rating: B1-U5-G1

Type III Short





REPORT NUMBER: P226430

CATALOG NUMBER: IST-AF-600-LED-E1-T3-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 556.2 | 556.2 | 556.2 | 556.2 | 556.2 | 556.2 | 556.2 | 556.2 | 556.2 | 556.2 | 556.2 |
| 2.5° | 551.9 | 553.1 | 554.3 | 553.7 | 553.7 | 553.7 | 553.7 | 552.5 | 554.3 | 554.3 | 553.1 |
| 5° | 542.8 | 543.4 | 544.0 | 545.2 | 546.4 | 547.6 | 548.2 | 548.2 | 548.8 | 548.2 | 547.0 |
| 7.5° | 529.4 | 530.0 | 532.4 | 532.4 | 533.7 | 536.0 | 537.3 | 538.5 | 540.3 | 540.3 | 539.7 |
| 10° | 525.2 | 525.2 | 525.2 | 523.3 | 524.6 | 525.2 | 526.9 | 526.9 | 531.8 | 534.3 | 535.5 |
| 12.5° | 530.0 | 529.4 | 529.4 | 524.6 | 520.3 | 518.4 | 520.3 | 520.9 | 526.3 | 530.0 | 532.4 |
| 15° | 540.9 | 540.9 | 539.7 | 532.4 | 524.0 | 517.2 | 516.6 | 516.6 | 520.9 | 526.3 | 530.6 |
| 17.5° | 566.5 | 568.9 | 560.4 | 548.8 | 534.9 | 524.0 | 519.7 | 519.0 | 522.1 | 526.3 | 530.6 |
| 20° | 615.1 | 614.5 | 601.7 | 581.0 | 556.7 | 538.5 | 528.1 | 526.9 | 526.3 | 528.8 | 533.7 |
| 22.5° | 672.8 | 670.4 | 655.2 | 629.1 | 595.7 | 562.2 | 542.2 | 539.7 | 534.9 | 536.6 | 543.4 |
| 25° | 734.8 | 735.4 | 716.6 | 682.5 | 640.6 | 600.5 | 570.1 | 567.6 | 557.3 | 556.2 | 563.4 |
| 27.5° | 796.8 | 804.8 | 779.2 | 747.0 | 697.1 | 649.2 | 604.8 | 601.1 | 592.0 | 588.9 | 596.3 |
| 30° | 887.4 | 884.3 | 852.7 | 810.8 | 761.0 | 700.8 | 658.3 | 651.5 | 633.3 | 637.6 | 645.5 |
| 32.5° | 963.9 | 970.7 | 942.0 | 892.2 | 826.6 | 763.4 | 714.1 | 710.5 | 692.8 | 697.8 | 708.7 |
| 35° | 1057.5 | 1073.4 | 1035.6 | 974.3 | 911.0 | 846.1 | 787.1 | 777.3 | 763.4 | 773.1 | 781.6 |
| 37.5° | 1164.5 | 1172.4 | 1143.2 | 1064.3 | 999.8 | 931.7 | 864.9 | 849.7 | 834.5 | 854.6 | 869.7 |
| 40° | 1266.6 | 1279.4 | 1241.8 | 1174.9 | 1100.1 | 1035.1 | 962.2 | 959.1 | 923.8 | 945.7 | 985.2 |
| 42.5° | 1418.0 | 1433.8 | 1373.6 | 1295.8 | 1228.4 | 1149.9 | 1080.6 | 1064.3 | 1025.9 | 1056.9 | 1123.2 |
| 45° | 1523.8 | 1523.2 | 1482.5 | 1418.0 | 1376.7 | 1300.7 | 1207.1 | 1187.6 | 1146.3 | 1187.6 | 1276.3 |
| 47.5° | 1562.0 | 1571.2 | 1557.1 | 1549.3 | 1534.6 | 1479.4 | 1341.4 | 1323.2 | 1284.3 | 1345.7 | 1427.7 |
| 50° | 1618.5 | 1616.2 | 1616.2 | 1664.8 | 1706.7 | 1695.1 | 1498.8 | 1472.6 | 1431.9 | 1505.5 | 1623.4 |
| 52.5° | 1633.1 | 1611.2 | 1645.3 | 1738.3 | 1871.4 | 1881.1 | 1681.7 | 1667.2 | 1618.5 | 1690.3 | 1835.6 |
| 55° | 1592.4 | 1586.9 | 1641.0 | 1775.9 | 1985.6 | 2054.9 | 1893.9 | 1873.8 | 1819.1 | 1880.5 | 2064.7 |
| 57.5° | 1501.3 | 1515.2 | 1602.1 | 1768.1 | 2064.7 | 2208.1 | 2126.7 | 2098.1 | 2019.7 | 2056.7 | 2292.0 |
| 60° | 1405.8 | 1412.5 | 1527.4 | 1740.1 | 2086.0 | 2314.5 | 2371.0 | 2354.6 | 2220.3 | 2242.1 | 2460.4 |
| 62.5° | 1300.1 | 1284.3 | 1403.4 | 1717.0 | 2062.3 | 2460.9 | 2608.0 | 2595.3 | 2436.7 | 2429.9 | 2580.1 |
| 65° | 1004.6 | 1026.5 | 1128.1 | 1419.2 | 1899.9 | 2575.2 | 2890.7 | 2874.3 | 2678.0 | 2585.0 | 2567.3 |
| 67.5° | 645.5 | 641.2 | 712.9 | 948.8 | 1419.9 | 2340.6 | 3038.4 | 3056.6 | 2815.9 | 2654.9 | 2391.0 |
| 70° | 231.6 | 238.2 | 265.0 | 431.0 | 778.6 | 1559.6 | 2678.6 | 2769.1 | 2714.4 | 2524.1 | 1946.2 |
| 72.5° | 141.0 | 141.0 | 160.5 | 193.8 | 315.5 | 739.7 | 1909.1 | 2088.4 | 2215.4 | 2079.9 | 1437.5 |
| 75° | 110.6 | 110.0 | 116.7 | 133.7 | 170.2 | 242.5 | 1015.0 | 1153.6 | 1421.0 | 1436.8 | 818.1 |
| 77.5° | 87.6 | 87.0 | 93.6 | 101.5 | 127.1 | 128.3 | 324.0 | 421.8 | 652.1 | 613.9 | 292.4 |
| 80° | 70.5 | 69.9 | 74.8 | 77.2 | 93.0 | 88.7 | 130.0 | 150.8 | 228.5 | 200.6 | 126.4 |
| 82.5° | 63.8 | 63.8 | 68.6 | 58.9 | 64.4 | 62.6 | 80.8 | 86.3 | 114.9 | 119.2 | 76.0 |
| 85° | 41.3 | 42.6 | 64.4 | 57.2 | 41.9 | 38.3 | 51.7 | 54.7 | 71.7 | 78.4 | 37.0 |
| 87.5° | 19.4 | 21.3 | 49.2 | 47.4 | 27.9 | 20.7 | 29.2 | 31.0 | 38.9 | 48.0 | 21.9 |
| 90° | 8.8 | 8.8 | 13.2 | 14.8 | 11.9 | 10.8 | 12.1 | 11.9 | 13.5 | 15.2 | 13.2 |
| 92.5° | 4.1 | 4.1 | 5.1 | 6.1 | 6.1 | 6.1 | 7.2 | 7.2 | 7.2 | 6.1 | 6.1 |
| 95° | 5.1 | 5.1 | 6.1 | 7.2 | 7.2 | 7.2 | 7.2 | 7.4 | 8.2 | 7.2 | 7.2 |
| 97.5° | 7.2 | 7.2 | 8.2 | 8.2 | 9.2 | 9.2 | 12.3 | 11.9 | 10.2 | 9.2 | 8.2 |
| 100° | 8.2 | 8.2 | 9.2 | 10.2 | 12.3 | 21.5 | 29.7 | 29.1 | 26.6 | 23.5 | 19.4 |
| 102.5° | 11.3 | 11.3 | 13.3 | 18.4 | 27.6 | 40.9 | 51.1 | 50.5 | 48.1 | 43.0 | 39.9 |
| 105° | 21.5 | 22.5 | 27.6 | 36.8 | 49.1 | 64.4 | 73.7 | 73.2 | 71.6 | 66.5 | 62.4 |
| 107.5° | 41.9 | 43.0 | 50.1 | 59.3 | 74.7 | 90.0 | 97.2 | 97.0 | 96.2 | 92.1 | 89.0 |
| 110° | 67.5 | 69.6 | 75.7 | 89.0 | 104.3 | 116.6 | 122.8 | 123.0 | 123.8 | 121.7 | 118.7 |



REPORT NUMBER: P226430

CATALOG NUMBER: IST-AF-600-LED-E1-T3-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 101.3 | 101.3 | 108.4 | 123.8 | 137.1 | 146.3 | 151.4 | 151.8 | 153.4 | 152.4 | 150.4 |
| 115° | 143.2 | 142.2 | 150.4 | 162.6 | 171.9 | 178.0 | 183.1 | 183.7 | 186.2 | 183.1 | 181.1 |
| 117.5° | 188.2 | 188.2 | 193.3 | 201.5 | 206.6 | 209.7 | 215.8 | 216.7 | 219.9 | 214.8 | 212.8 |
| 120° | 230.2 | 228.1 | 231.2 | 238.3 | 242.4 | 248.6 | 251.6 | 252.5 | 255.7 | 250.6 | 248.6 |
| 122.5° | 269.0 | 266.0 | 267.0 | 273.1 | 277.2 | 283.4 | 285.4 | 286.2 | 289.5 | 284.4 | 282.3 |
| 125° | 304.8 | 300.7 | 302.8 | 305.9 | 312.0 | 317.1 | 320.2 | 320.6 | 322.2 | 317.1 | 317.1 |
| 127.5° | 337.6 | 336.6 | 336.6 | 340.6 | 346.8 | 347.8 | 352.9 | 353.1 | 353.9 | 353.9 | 352.9 |
| 130° | 371.3 | 369.3 | 370.3 | 374.4 | 378.5 | 380.5 | 385.7 | 386.5 | 389.7 | 389.7 | 387.7 |
| 132.5° | 405.1 | 403.0 | 402.0 | 410.2 | 413.3 | 414.3 | 420.4 | 421.5 | 425.5 | 423.5 | 423.5 |
| 135° | 438.8 | 435.8 | 435.8 | 441.9 | 445.0 | 447.0 | 453.2 | 454.2 | 458.3 | 457.3 | 460.3 |
| 137.5° | 470.6 | 467.5 | 469.5 | 470.6 | 474.6 | 478.7 | 483.9 | 484.3 | 485.9 | 486.9 | 492.0 |
| 140° | 499.2 | 496.1 | 498.2 | 500.2 | 502.3 | 508.4 | 511.5 | 511.9 | 513.5 | 515.6 | 520.7 |
| 142.5° | 529.9 | 526.8 | 528.9 | 529.9 | 533.0 | 537.0 | 539.1 | 540.3 | 545.2 | 545.2 | 546.3 |
| 145° | 562.6 | 558.5 | 556.5 | 559.6 | 562.6 | 563.6 | 568.8 | 570.0 | 574.9 | 573.9 | 570.8 |
| 147.5° | 588.2 | 585.1 | 584.1 | 587.2 | 587.2 | 588.2 | 593.3 | 594.3 | 598.4 | 599.4 | 596.4 |
| 150° | 608.7 | 605.6 | 606.6 | 606.6 | 606.6 | 606.6 | 610.7 | 611.3 | 613.8 | 616.8 | 619.9 |
| 152.5° | 625.0 | 622.0 | 622.0 | 623.0 | 624.0 | 624.0 | 625.0 | 625.6 | 628.1 | 632.2 | 637.3 |
| 155° | 643.4 | 639.3 | 639.3 | 641.4 | 644.5 | 642.4 | 640.4 | 641.4 | 645.5 | 650.6 | 652.6 |
| 157.5° | 660.8 | 657.8 | 657.8 | 658.8 | 660.8 | 659.8 | 658.8 | 659.6 | 662.9 | 664.9 | 664.9 |
| 160° | 678.2 | 675.1 | 674.1 | 671.1 | 670.0 | 670.0 | 673.1 | 674.3 | 679.2 | 676.2 | 675.1 |
| 162.5° | 688.4 | 684.4 | 684.4 | 680.3 | 676.2 | 678.2 | 682.3 | 683.1 | 686.4 | 685.4 | 683.3 |
| 165° | 696.6 | 693.6 | 691.5 | 691.5 | 688.4 | 688.4 | 687.4 | 688.4 | 692.5 | 695.6 | 693.6 |
| 167.5° | 705.8 | 702.8 | 699.7 | 701.7 | 703.8 | 700.7 | 693.6 | 694.8 | 699.7 | 703.8 | 703.8 |
| 170° | 714.0 | 711.0 | 707.9 | 707.9 | 708.9 | 706.9 | 701.7 | 702.4 | 704.8 | 709.9 | 712.0 |
| 172.5° | 715.0 | 713.0 | 711.0 | 708.9 | 705.8 | 705.8 | 704.8 | 705.4 | 707.9 | 709.9 | 712.0 |
| 175° | 716.1 | 714.0 | 713.0 | 711.0 | 706.9 | 705.8 | 705.8 | 706.9 | 711.0 | 712.0 | 709.9 |
| 177.5° | 723.2 | 721.2 | 716.1 | 715.0 | 713.0 | 711.0 | 709.9 | 711.0 | 715.0 | 717.1 | 714.0 |
| 180° | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |



REPORT NUMBER: P226430

CATALOG NUMBER: IST-AF-600-LED-E1-T3-ULG

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 556.2 | 556.2 | 556.2 | 556.2 | 556.2 | 556.2 | 556.2 | 556.2 | 556.2 | 556.2 | 556.2 |
| 2.5° | 555.0 | 553.7 | 554.3 | 555.0 | 555.6 | 557.3 | 557.9 | 557.9 | 557.9 | 557.3 | 558.5 |
| 5° | 548.2 | 547.0 | 547.0 | 548.8 | 550.7 | 553.1 | 556.7 | 559.8 | 561.0 | 561.6 | 561.6 |
| 7.5° | 540.9 | 539.7 | 540.3 | 543.4 | 546.4 | 548.2 | 551.9 | 553.7 | 558.5 | 558.5 | 559.8 |
| 10° | 536.0 | 537.3 | 537.9 | 540.9 | 543.4 | 543.4 | 542.8 | 541.6 | 540.3 | 543.4 | 542.2 |
| 12.5° | 533.1 | 534.9 | 534.3 | 537.9 | 539.1 | 534.3 | 526.9 | 517.2 | 516.0 | 517.2 | 518.4 |
| 15° | 531.8 | 531.8 | 533.7 | 533.7 | 527.5 | 517.8 | 508.7 | 509.3 | 510.6 | 514.2 | 514.2 |
| 17.5° | 531.8 | 532.4 | 533.7 | 529.4 | 518.4 | 509.9 | 508.1 | 506.3 | 499.6 | 497.8 | 495.9 |
| 20° | 536.0 | 534.9 | 536.0 | 528.1 | 518.4 | 511.8 | 497.8 | 484.4 | 471.7 | 466.2 | 463.7 |
| 22.5° | 546.4 | 544.6 | 544.0 | 536.0 | 524.0 | 501.5 | 474.0 | 453.4 | 431.6 | 424.2 | 421.8 |
| 25° | 564.7 | 564.1 | 559.8 | 554.3 | 520.3 | 476.5 | 441.9 | 409.1 | 385.3 | 372.6 | 373.2 |
| 27.5° | 596.9 | 596.9 | 594.4 | 570.1 | 501.5 | 445.5 | 398.7 | 365.3 | 340.9 | 328.8 | 327.0 |
| 30° | 645.5 | 646.7 | 647.9 | 574.4 | 471.7 | 400.0 | 351.3 | 328.8 | 314.3 | 305.1 | 304.5 |
| 32.5° | 705.6 | 712.4 | 704.4 | 569.5 | 431.0 | 344.6 | 314.3 | 306.4 | 299.0 | 293.0 | 292.4 |
| 35° | 785.3 | 803.5 | 753.7 | 550.0 | 385.3 | 306.9 | 291.7 | 286.2 | 280.8 | 276.5 | 277.1 |
| 37.5° | 892.2 | 909.9 | 785.3 | 517.2 | 327.0 | 285.7 | 279.0 | 270.5 | 262.0 | 252.9 | 251.6 |
| 40° | 1018.7 | 1013.2 | 796.2 | 455.2 | 290.5 | 275.4 | 266.2 | 255.2 | 240.7 | 227.3 | 224.8 |
| 42.5° | 1145.1 | 1108.6 | 787.1 | 378.7 | 266.8 | 266.2 | 253.5 | 239.5 | 224.8 | 213.3 | 213.3 |
| 45° | 1286.7 | 1192.5 | 759.1 | 306.9 | 248.0 | 256.5 | 240.7 | 226.1 | 212.8 | 204.2 | 203.6 |
| 47.5° | 1420.4 | 1270.9 | 712.9 | 255.8 | 229.1 | 243.8 | 231.0 | 217.6 | 204.8 | 197.5 | 195.7 |
| 50° | 1577.2 | 1360.2 | 677.7 | 221.3 | 210.9 | 231.0 | 225.5 | 213.3 | 201.2 | 192.6 | 191.5 |
| 52.5° | 1735.8 | 1447.2 | 650.9 | 197.5 | 194.5 | 221.3 | 223.1 | 215.7 | 203.0 | 186.6 | 185.4 |
| 55° | 1901.8 | 1555.9 | 597.5 | 178.7 | 179.9 | 213.9 | 226.1 | 220.7 | 211.5 | 184.7 | 183.5 |
| 57.5° | 2041.0 | 1656.3 | 503.9 | 165.9 | 168.4 | 208.5 | 227.3 | 217.0 | 206.6 | 186.0 | 184.1 |
| 60° | 2149.7 | 1724.9 | 369.5 | 155.6 | 158.0 | 202.4 | 221.9 | 204.2 | 190.9 | 186.0 | 182.9 |
| 62.5° | 2183.2 | 1727.4 | 245.5 | 143.4 | 150.2 | 192.1 | 212.2 | 197.5 | 181.8 | 184.1 | 182.9 |
| 65° | 2099.3 | 1636.2 | 175.6 | 131.9 | 143.4 | 179.9 | 207.9 | 190.9 | 177.5 | 187.2 | 186.0 |
| 67.5° | 1841.0 | 1378.5 | 141.0 | 122.8 | 134.3 | 167.2 | 200.0 | 184.7 | 173.8 | 193.8 | 190.3 |
| 70° | 1434.4 | 988.9 | 119.7 | 113.6 | 124.6 | 155.0 | 189.0 | 178.1 | 169.0 | 188.4 | 183.5 |
| 72.5° | 945.7 | 582.3 | 105.8 | 105.2 | 113.0 | 144.6 | 176.9 | 172.0 | 161.1 | 170.8 | 163.5 |
| 75° | 493.6 | 269.9 | 91.8 | 95.4 | 100.2 | 135.5 | 165.9 | 161.1 | 148.9 | 152.5 | 150.2 |
| 77.5° | 193.8 | 126.4 | 79.6 | 83.9 | 89.3 | 122.1 | 151.9 | 147.1 | 136.8 | 133.7 | 133.1 |
| 80° | 106.4 | 85.1 | 66.3 | 71.7 | 75.4 | 110.0 | 137.4 | 131.9 | 120.9 | 119.2 | 117.3 |
| 82.5° | 67.5 | 55.3 | 54.7 | 58.3 | 63.2 | 97.9 | 123.4 | 114.9 | 105.8 | 124.6 | 100.9 |
| 85° | 31.6 | 32.8 | 38.9 | 43.8 | 49.2 | 83.3 | 107.6 | 98.5 | 89.3 | 87.0 | 77.2 |
| 87.5° | 17.6 | 21.9 | 25.6 | 29.8 | 34.1 | 58.3 | 85.1 | 76.6 | 66.9 | 57.2 | 58.9 |
| 90° | 11.5 | 11.5 | 16.5 | 15.9 | 14.4 | 15.7 | 50.1 | 45.8 | 40.6 | 20.9 | 15.4 |
| 92.5° | 6.1 | 6.1 | 6.1 | 7.2 | 7.2 | 6.1 | 6.1 | 6.1 | 5.1 | 4.1 | 4.1 |
| 95° | 7.2 | 7.2 | 7.2 | 8.2 | 7.2 | 7.2 | 7.2 | 7.2 | 6.1 | 5.1 | 5.1 |
| 97.5° | 8.2 | 8.2 | 9.2 | 10.2 | 12.3 | 9.2 | 9.2 | 8.2 | 8.2 | 7.2 | 7.2 |
| 100° | 19.4 | 19.4 | 23.5 | 26.6 | 29.7 | 21.5 | 12.3 | 10.2 | 9.2 | 8.2 | 8.2 |
| 102.5° | 38.9 | 39.9 | 43.0 | 48.1 | 51.1 | 40.9 | 27.6 | 18.4 | 13.3 | 11.3 | 11.3 |
| 105° | 62.4 | 62.4 | 66.5 | 71.6 | 73.7 | 64.4 | 49.1 | 36.8 | 27.6 | 22.5 | 21.5 |
| 107.5° | 88.0 | 89.0 | 92.1 | 96.2 | 97.2 | 90.0 | 74.7 | 59.3 | 50.1 | 43.0 | 41.9 |
| 110° | 119.7 | 118.7 | 121.7 | 123.8 | 122.8 | 116.6 | 104.3 | 89.0 | 75.7 | 69.6 | 67.5 |



REPORT NUMBER: P226430

CATALOG NUMBER: IST-AF-600-LED-E1-T3-ULG

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 150.4 | 150.4 | 152.4 | 153.4 | 151.4 | 146.3 | 137.1 | 123.8 | 108.4 | 101.3 | 101.3 |
| 115° | 182.1 | 181.1 | 183.1 | 186.2 | 183.1 | 178.0 | 171.9 | 162.6 | 150.4 | 142.2 | 143.2 |
| 117.5° | 213.8 | 212.8 | 214.8 | 219.9 | 215.8 | 209.7 | 206.6 | 201.5 | 193.3 | 188.2 | 188.2 |
| 120° | 248.6 | 248.6 | 250.6 | 255.7 | 251.6 | 248.6 | 242.4 | 238.3 | 231.2 | 228.1 | 230.2 |
| 122.5° | 283.4 | 282.3 | 284.4 | 289.5 | 285.4 | 283.4 | 277.2 | 273.1 | 267.0 | 266.0 | 269.0 |
| 125° | 317.1 | 317.1 | 317.1 | 322.2 | 320.2 | 317.1 | 312.0 | 305.9 | 302.8 | 300.7 | 304.8 |
| 127.5° | 355.0 | 352.9 | 353.9 | 353.9 | 352.9 | 347.8 | 346.8 | 340.6 | 336.6 | 336.6 | 337.6 |
| 130° | 388.7 | 387.7 | 389.7 | 389.7 | 385.7 | 380.5 | 378.5 | 374.4 | 370.3 | 369.3 | 371.3 |
| 132.5° | 424.5 | 423.5 | 423.5 | 425.5 | 420.4 | 414.3 | 413.3 | 410.2 | 402.0 | 403.0 | 405.1 |
| 135° | 461.4 | 460.3 | 457.3 | 458.3 | 453.2 | 447.0 | 445.0 | 441.9 | 435.8 | 435.8 | 438.8 |
| 137.5° | 493.1 | 492.0 | 486.9 | 485.9 | 483.9 | 478.7 | 474.6 | 470.6 | 469.5 | 467.5 | 470.6 |
| 140° | 522.7 | 520.7 | 515.6 | 513.5 | 511.5 | 508.4 | 502.3 | 500.2 | 498.2 | 496.1 | 499.2 |
| 142.5° | 548.3 | 546.3 | 545.2 | 545.2 | 539.1 | 537.0 | 533.0 | 529.9 | 528.9 | 526.8 | 529.9 |
| 145° | 572.9 | 570.8 | 573.9 | 574.9 | 568.8 | 563.6 | 562.6 | 559.6 | 556.5 | 558.5 | 562.6 |
| 147.5° | 598.4 | 596.4 | 599.4 | 598.4 | 593.3 | 588.2 | 587.2 | 587.2 | 584.1 | 585.1 | 588.2 |
| 150° | 624.0 | 619.9 | 616.8 | 613.8 | 610.7 | 606.6 | 606.6 | 606.6 | 606.6 | 605.6 | 608.7 |
| 152.5° | 642.4 | 637.3 | 632.2 | 628.1 | 625.0 | 624.0 | 624.0 | 623.0 | 622.0 | 622.0 | 625.0 |
| 155° | 655.7 | 652.6 | 650.6 | 645.5 | 640.4 | 642.4 | 644.5 | 641.4 | 639.3 | 639.3 | 643.4 |
| 157.5° | 670.0 | 664.9 | 664.9 | 662.9 | 658.8 | 659.8 | 660.8 | 658.8 | 657.8 | 657.8 | 660.8 |
| 160° | 681.3 | 675.1 | 676.2 | 679.2 | 673.1 | 670.0 | 670.0 | 671.1 | 674.1 | 675.1 | 678.2 |
| 162.5° | 689.5 | 683.3 | 685.4 | 686.4 | 682.3 | 678.2 | 676.2 | 680.3 | 684.4 | 684.4 | 688.4 |
| 165° | 697.7 | 693.6 | 695.6 | 692.5 | 687.4 | 688.4 | 688.4 | 691.5 | 691.5 | 693.6 | 696.6 |
| 167.5° | 709.9 | 703.8 | 703.8 | 699.7 | 693.6 | 700.7 | 703.8 | 701.7 | 699.7 | 702.8 | 705.8 |
| 170° | 717.1 | 712.0 | 709.9 | 704.8 | 701.7 | 706.9 | 708.9 | 707.9 | 707.9 | 711.0 | 714.0 |
| 172.5° | 717.1 | 712.0 | 709.9 | 707.9 | 704.8 | 705.8 | 705.8 | 708.9 | 711.0 | 713.0 | 715.0 |
| 175° | 715.0 | 709.9 | 712.0 | 711.0 | 705.8 | 705.8 | 706.9 | 711.0 | 713.0 | 714.0 | 716.1 |
| 177.5° | 718.1 | 714.0 | 717.1 | 715.0 | 709.9 | 711.0 | 713.0 | 715.0 | 716.1 | 721.2 | 723.2 |
| 180° | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |

(END OF REPORT)