

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: P226868

Luminaire Tested: **IST-AF-450-LED-E1-SL2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-450-LED-E1-SL2-7050
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3030.2 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U1 - G1

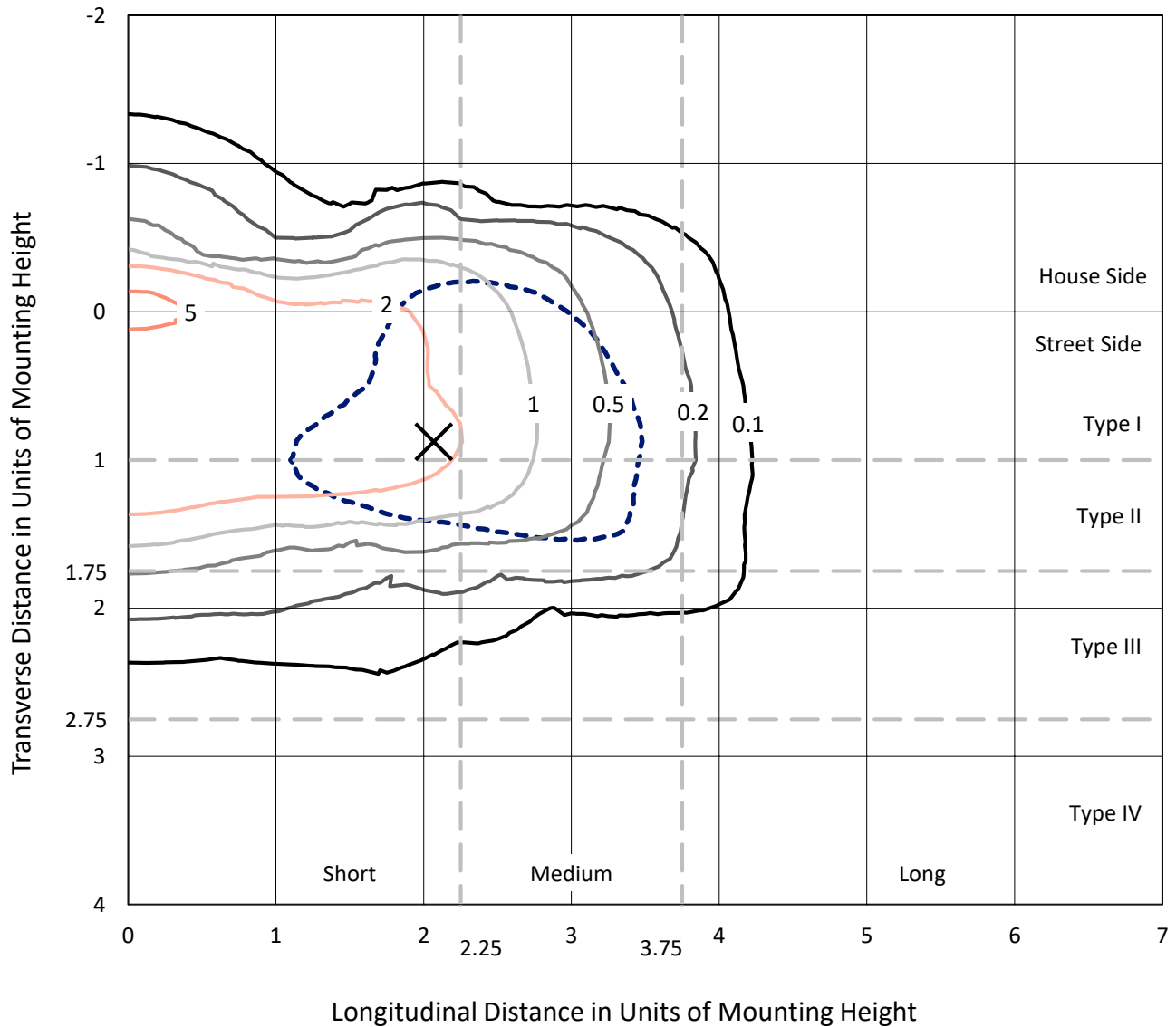
Input Watts (W): 25.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P226868
 CATALOG NUMBER: IST-AF-450-LED-E1-SL2-7050

Iso-Footcandle Lines of Horizontal Illumination

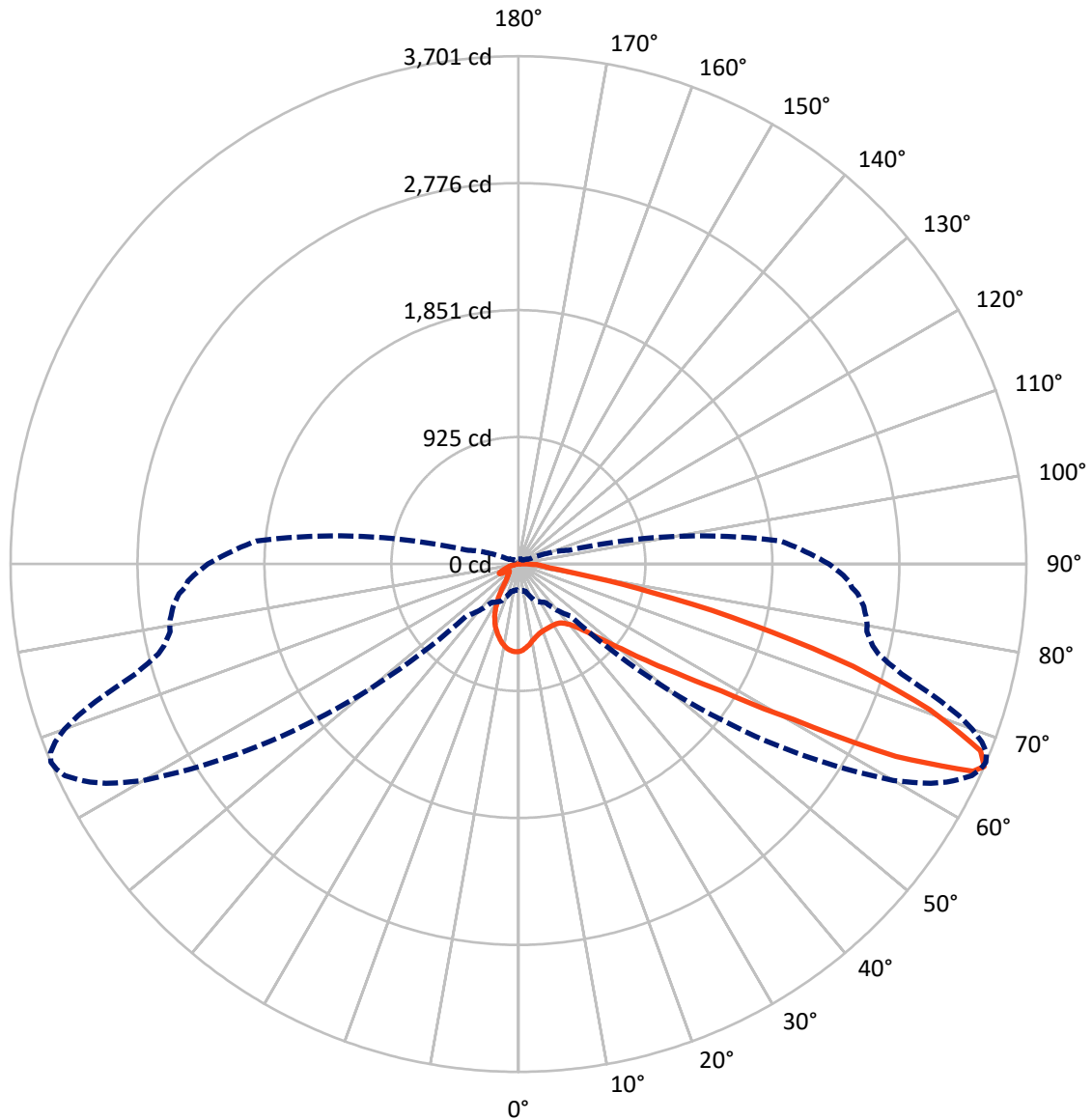
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 559.5 | 0.2 | 559.7 |
| | % Fixture | 18.5 | 0.0 | 18.5 |
| Street Side | Lumens | 2469.6 | 0.9 | 2470.5 |
| | % Fixture | 81.5 | 0.0 | 81.5 |
| Total | Lumens | 3029.1 | 1.1 | 3030.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.3 | 1.8 |
| 10°-20° | 131.7 | 4.3 |
| 20°-30° | 180.5 | 6.0 |
| 30°-40° | 257.9 | 8.5 |
| 40°-50° | 418.2 | 13.8 |
| 50°-60° | 662.5 | 21.9 |
| 60°-70° | 839.6 | 27.7 |
| 70°-80° | 417.3 | 13.8 |
| 80°-90° | 66.1 | 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° | 3029.1 | 100.0 |
| 0°-180° | 3030.2 | 100.0 |



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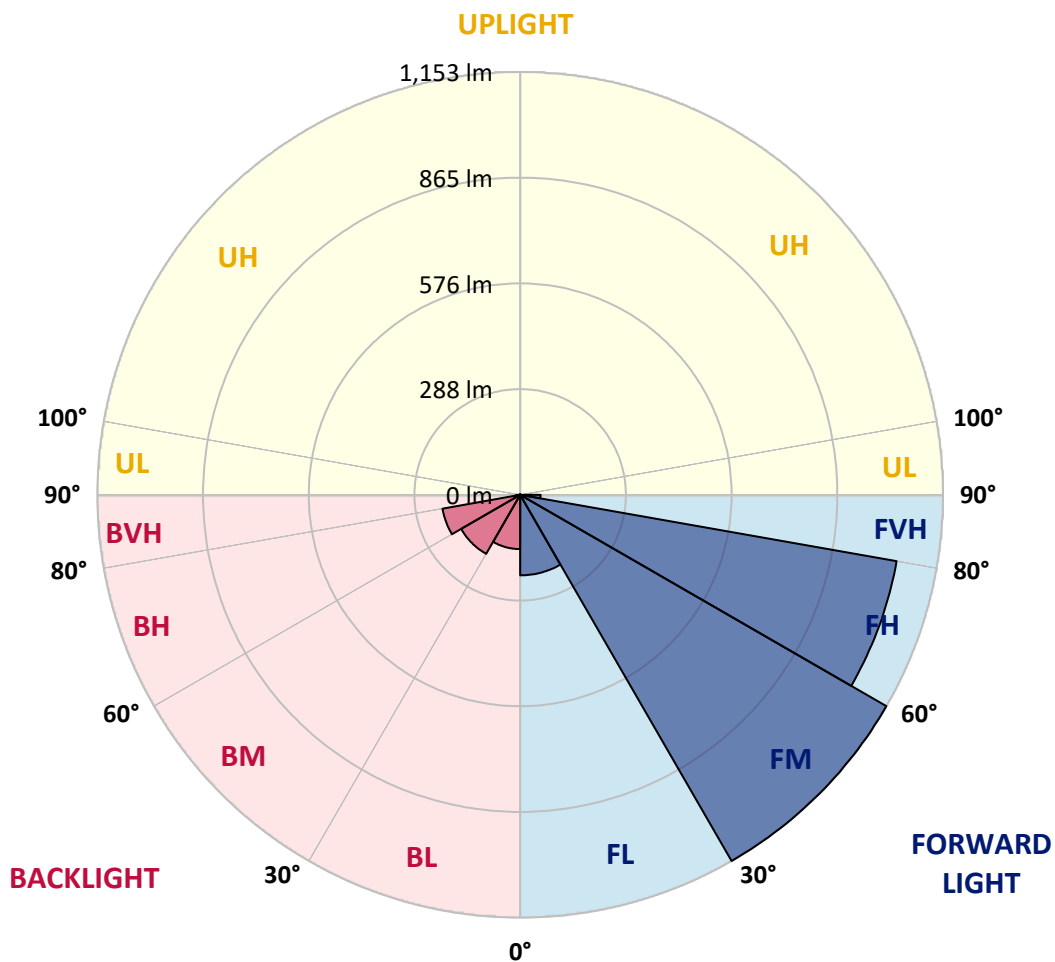
CATALOG NUMBER: IST-AF-450-LED-E1-SL2-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 219.5 | 7.2 | | | |
| FM | (30°-60°) | 1152.7 | 38.0 | | | |
| FH | (60°-80°) | 1041.9 | 34.4 | | | G1/1800 |
| FVH | (80°-90°) | 55.4 | 1.8 | | | G1/100 |
| BL | (0°-30°) | 147.9 | 4.9 | B1/500 | | |
| BM | (30°-60°) | 185.9 | 6.1 | B0/220 | | |
| BH | (60°-80°) | 215.0 | 7.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 10.7 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 1.1 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 0.2 | 0.0 | | U1/10 | |

BUG Rating: B1-U1-G1

Type II Short





REPORT NUMBER: P226868

CATALOG NUMBER: IST-AF-450-LED-E1-SL2-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 63° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 |
| 2.5° | 592.7 | 594.1 | 601.9 | 606.0 | 611.9 | 613.7 | 620.5 | 623.3 | 625.5 | 625.1 | 625.1 |
| 5° | 539.5 | 543.6 | 547.2 | 555.4 | 564.1 | 574.5 | 587.7 | 597.8 | 599.6 | 601.9 | 603.2 |
| 7.5° | 499.0 | 501.7 | 508.1 | 514.0 | 524.9 | 539.5 | 558.1 | 570.9 | 573.6 | 574.5 | 577.7 |
| 10° | 470.3 | 472.1 | 477.6 | 485.3 | 498.1 | 512.2 | 531.7 | 544.9 | 549.0 | 550.9 | 553.6 |
| 12.5° | 448.0 | 450.7 | 455.7 | 463.9 | 477.6 | 492.1 | 512.6 | 525.8 | 528.6 | 530.8 | 534.9 |
| 15° | 433.9 | 435.7 | 440.2 | 449.3 | 461.6 | 476.2 | 496.2 | 512.2 | 514.0 | 516.3 | 519.9 |
| 17.5° | 431.1 | 432.5 | 435.2 | 442.1 | 451.6 | 465.7 | 486.2 | 499.4 | 502.6 | 505.8 | 509.4 |
| 20° | 442.1 | 443.0 | 443.9 | 444.8 | 450.3 | 459.4 | 479.4 | 493.5 | 496.2 | 499.0 | 503.5 |
| 22.5° | 465.7 | 467.1 | 464.8 | 461.6 | 457.5 | 459.4 | 476.2 | 490.8 | 492.6 | 495.3 | 499.0 |
| 25° | 506.7 | 505.3 | 498.5 | 493.5 | 478.9 | 467.1 | 477.1 | 489.4 | 491.7 | 494.4 | 498.5 |
| 27.5° | 555.0 | 553.1 | 549.0 | 535.4 | 511.3 | 487.1 | 482.6 | 491.7 | 493.0 | 495.3 | 499.0 |
| 30° | 606.9 | 607.3 | 603.7 | 588.7 | 557.7 | 517.2 | 494.9 | 497.1 | 498.1 | 499.9 | 502.2 |
| 32.5° | 653.8 | 660.6 | 660.1 | 659.2 | 615.1 | 557.7 | 518.5 | 509.4 | 508.1 | 509.4 | 510.3 |
| 35° | 707.9 | 709.3 | 722.0 | 728.4 | 692.4 | 616.9 | 553.1 | 533.1 | 527.6 | 528.1 | 527.2 |
| 37.5° | 766.2 | 768.0 | 789.9 | 800.8 | 773.0 | 684.3 | 599.1 | 568.2 | 563.2 | 558.1 | 554.5 |
| 40° | 850.9 | 858.2 | 869.5 | 881.8 | 868.2 | 774.9 | 659.7 | 617.8 | 605.0 | 604.1 | 596.8 |
| 42.5° | 977.4 | 975.2 | 969.7 | 979.7 | 963.3 | 876.4 | 733.0 | 687.9 | 678.3 | 665.6 | 655.6 |
| 45° | 1101.7 | 1106.7 | 1083.1 | 1087.6 | 1088.5 | 993.8 | 839.0 | 775.8 | 770.8 | 755.7 | 744.8 |
| 47.5° | 1185.5 | 1180.0 | 1148.2 | 1171.4 | 1228.3 | 1130.9 | 962.0 | 895.5 | 885.0 | 877.3 | 870.5 |
| 50° | 1190.0 | 1185.5 | 1165.0 | 1206.0 | 1327.5 | 1374.4 | 1133.1 | 1055.7 | 1040.7 | 1027.1 | 1023.0 |
| 52.5° | 1079.0 | 1072.6 | 1079.4 | 1162.7 | 1363.5 | 1578.4 | 1374.9 | 1254.7 | 1242.4 | 1231.0 | 1215.1 |
| 55° | 880.9 | 888.2 | 920.5 | 1040.3 | 1308.4 | 1723.2 | 1850.6 | 1562.0 | 1509.2 | 1508.7 | 1469.6 |
| 57.5° | 657.8 | 650.6 | 674.7 | 787.1 | 1169.1 | 1774.6 | 2287.7 | 2216.2 | 2098.3 | 2018.6 | 1922.6 |
| 60° | 443.9 | 445.7 | 468.0 | 525.8 | 813.5 | 1718.6 | 2580.4 | 2829.4 | 2788.0 | 2771.2 | 2745.2 |
| 62.5° | 307.8 | 310.5 | 331.0 | 385.1 | 475.7 | 1382.6 | 2666.0 | 3173.2 | 3247.4 | 3308.8 | 3293.8 |
| 65° | 215.3 | 215.8 | 236.3 | 320.0 | 356.5 | 710.2 | 2477.1 | 3218.7 | 3329.3 | 3434.9 | 3529.6 |
| 66° | 189.8 | 190.3 | 207.1 | 297.7 | 341.9 | 535.8 | 2313.2 | 3155.4 | 3281.5 | 3404.4 | 3502.3 |
| 67.5° | 162.5 | 165.3 | 178.5 | 253.1 | 327.8 | 413.4 | 1910.7 | 2966.5 | 3098.5 | 3233.7 | 3363.0 |
| 70° | 111.5 | 112.4 | 124.3 | 205.3 | 306.8 | 362.8 | 1089.0 | 2315.9 | 2498.5 | 2736.1 | 2873.6 |
| 72.5° | 79.7 | 78.8 | 80.1 | 127.0 | 315.0 | 360.6 | 572.3 | 1524.2 | 1779.6 | 1988.1 | 2137.0 |
| 75° | 71.0 | 68.7 | 62.8 | 78.8 | 229.9 | 393.8 | 383.3 | 897.3 | 1091.7 | 1281.6 | 1434.1 |
| 77.5° | 63.3 | 59.6 | 56.5 | 60.5 | 113.8 | 371.0 | 344.2 | 514.0 | 613.2 | 754.8 | 872.3 |
| 80° | 48.3 | 46.0 | 47.8 | 52.4 | 68.3 | 341.4 | 341.9 | 341.9 | 368.8 | 415.2 | 461.6 |
| 82.5° | 31.9 | 29.1 | 33.2 | 43.2 | 51.4 | 257.2 | 353.3 | 301.8 | 296.8 | 295.0 | 298.2 |
| 85° | 20.0 | 17.3 | 23.2 | 32.3 | 39.6 | 134.3 | 362.4 | 318.7 | 295.5 | 273.2 | 250.8 |
| 87.5° | 7.3 | 8.2 | 11.8 | 18.7 | 25.9 | 58.3 | 317.8 | 280.9 | 265.0 | 237.2 | 211.2 |
| 90° | 1.8 | 1.4 | 2.3 | 5.5 | 5.9 | 10.9 | 48.7 | 77.8 | 46.4 | 23.2 | 18.7 |
| 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 |



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CATALOG NUMBER: IST-AF-450-LED-E1-SL2-7050

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 63° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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: P226868

CATALOG NUMBER: IST-AF-450-LED-E1-SL2-7050

CANDELA DISTRIBUTION (continued):

| | 64° | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 |
| 2.5° | 625.5 | 627.8 | 628.7 | 627.8 | 628.3 | 631.0 | 630.1 | 631.4 | 631.4 | 632.4 | 632.4 |
| 5° | 605.0 | 606.9 | 610.5 | 610.0 | 613.7 | 615.1 | 616.4 | 618.2 | 620.5 | 621.9 | 624.6 |
| 7.5° | 580.9 | 584.6 | 587.7 | 589.6 | 591.8 | 596.4 | 597.8 | 601.9 | 605.5 | 609.1 | 611.9 |
| 10° | 557.7 | 562.7 | 566.3 | 567.7 | 572.7 | 575.0 | 580.0 | 583.2 | 587.7 | 592.3 | 596.4 |
| 12.5° | 538.1 | 542.7 | 544.5 | 549.0 | 553.6 | 558.1 | 560.4 | 566.3 | 570.9 | 576.8 | 582.3 |
| 15° | 523.5 | 528.1 | 531.7 | 534.9 | 539.5 | 544.0 | 547.7 | 553.6 | 559.1 | 565.0 | 570.0 |
| 17.5° | 514.4 | 517.2 | 521.7 | 524.5 | 529.9 | 535.4 | 539.5 | 546.3 | 552.2 | 557.2 | 564.1 |
| 20° | 507.6 | 510.8 | 514.9 | 519.0 | 524.0 | 530.8 | 534.5 | 541.8 | 548.1 | 554.1 | 560.4 |
| 22.5° | 504.0 | 507.2 | 511.3 | 515.4 | 520.8 | 526.3 | 532.2 | 538.6 | 545.4 | 551.8 | 558.1 |
| 25° | 502.6 | 505.3 | 509.0 | 513.1 | 519.0 | 524.9 | 529.9 | 537.2 | 543.1 | 550.0 | 557.7 |
| 27.5° | 503.1 | 504.9 | 509.0 | 512.6 | 518.5 | 524.0 | 529.0 | 536.3 | 543.1 | 549.5 | 557.2 |
| 30° | 504.9 | 506.2 | 510.3 | 513.5 | 518.5 | 524.0 | 528.6 | 536.3 | 542.2 | 549.0 | 557.2 |
| 32.5° | 511.3 | 513.1 | 514.9 | 517.2 | 521.7 | 525.8 | 531.3 | 538.1 | 543.6 | 550.4 | 557.2 |
| 35° | 526.3 | 524.9 | 526.3 | 527.2 | 530.4 | 534.5 | 538.6 | 544.5 | 549.5 | 555.4 | 562.7 |
| 37.5° | 550.0 | 547.2 | 548.1 | 547.7 | 547.7 | 550.4 | 554.5 | 558.6 | 562.7 | 568.6 | 575.9 |
| 40° | 593.7 | 586.8 | 585.0 | 580.0 | 578.6 | 580.9 | 583.6 | 584.1 | 589.1 | 596.8 | 600.0 |
| 42.5° | 650.1 | 641.0 | 642.4 | 634.2 | 631.9 | 629.2 | 632.8 | 630.5 | 633.7 | 638.7 | 645.6 |
| 45° | 739.3 | 730.7 | 721.6 | 708.4 | 711.1 | 701.1 | 698.4 | 699.3 | 698.8 | 700.6 | 708.8 |
| 47.5° | 845.9 | 834.5 | 828.6 | 823.6 | 814.0 | 808.1 | 800.3 | 789.0 | 791.7 | 795.3 | 802.6 |
| 50° | 1001.6 | 997.9 | 986.5 | 970.2 | 967.9 | 959.2 | 957.0 | 946.9 | 943.3 | 942.8 | 942.4 |
| 52.5° | 1209.6 | 1186.0 | 1181.4 | 1165.9 | 1154.1 | 1145.9 | 1143.2 | 1129.0 | 1114.9 | 1123.1 | 1122.2 |
| 55° | 1463.2 | 1443.6 | 1418.6 | 1404.9 | 1395.4 | 1375.8 | 1370.8 | 1353.0 | 1344.8 | 1340.3 | 1328.9 |
| 57.5° | 1889.3 | 1820.6 | 1769.1 | 1743.6 | 1707.7 | 1671.3 | 1658.5 | 1622.1 | 1593.9 | 1573.8 | 1575.2 |
| 60° | 2632.3 | 2509.8 | 2365.5 | 2300.9 | 2151.1 | 2129.2 | 2026.4 | 2001.3 | 1939.4 | 1898.4 | 1874.8 |
| 62.5° | 3283.3 | 3250.1 | 3180.9 | 3086.7 | 2936.4 | 2763.4 | 2685.6 | 2530.8 | 2409.7 | 2356.9 | 2283.6 |
| 65° | 3594.3 | 3641.2 | 3660.3 | 3642.5 | 3582.4 | 3476.8 | 3383.9 | 3232.8 | 3029.8 | 2915.0 | 2772.5 |
| 66° | 3578.3 | 3648.0 | 3683.0 | 3701.3 | 3679.4 | 3617.0 | 3519.6 | 3395.3 | 3238.3 | 3063.4 | 2903.6 |
| 67.5° | 3461.8 | 3529.6 | 3578.3 | 3633.9 | 3633.9 | 3614.3 | 3574.7 | 3491.8 | 3380.8 | 3228.2 | 3084.8 |
| 70° | 2985.6 | 3077.6 | 3163.6 | 3180.4 | 3227.8 | 3213.2 | 3244.6 | 3191.8 | 3165.4 | 3101.7 | 3024.7 |
| 72.5° | 2325.9 | 2402.9 | 2476.6 | 2550.4 | 2538.1 | 2522.1 | 2519.0 | 2529.9 | 2476.2 | 2495.3 | 2475.2 |
| 75° | 1547.0 | 1679.5 | 1755.0 | 1747.7 | 1752.7 | 1756.8 | 1723.2 | 1648.0 | 1706.3 | 1632.6 | 1657.1 |
| 77.5° | 940.1 | 1001.6 | 1022.1 | 999.3 | 969.7 | 931.5 | 870.0 | 834.0 | 782.6 | 786.7 | 752.5 |
| 80° | 493.0 | 500.8 | 484.4 | 438.4 | 413.4 | 390.6 | 320.5 | 289.1 | 260.0 | 249.0 | 224.4 |
| 82.5° | 282.7 | 264.1 | 244.0 | 228.5 | 198.9 | 178.9 | 151.6 | 134.3 | 115.6 | 99.2 | 93.3 |
| 85° | 229.0 | 204.0 | 185.3 | 168.0 | 148.0 | 130.2 | 107.4 | 89.7 | 76.0 | 66.0 | 63.7 |
| 87.5° | 188.9 | 171.6 | 152.5 | 136.1 | 116.5 | 98.3 | 76.0 | 59.2 | 46.9 | 37.8 | 35.1 |
| 90° | 16.8 | 22.8 | 16.4 | 9.1 | 13.7 | 7.3 | 4.1 | 4.6 | 3.6 | 3.6 | 4.1 |
| 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: P226868

CATALOG NUMBER: IST-AF-450-LED-E1-SL2-7050

CANDELA DISTRIBUTION (continued):

| | 64° | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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: P226868

CATALOG NUMBER: IST-AF-450-LED-E1-SL2-7050

CANDELA DISTRIBUTION (continued):

| | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 |
| 2.5° | 633.7 | 633.7 | 634.6 | 635.5 | 636.0 | 636.0 | 636.0 | 636.9 | 637.4 | 636.0 | 637.4 |
| 5° | 626.0 | 628.3 | 630.1 | 631.4 | 631.9 | 633.3 | 634.6 | 635.5 | 636.9 | 636.9 | 637.8 |
| 7.5° | 615.5 | 619.6 | 621.9 | 624.2 | 626.4 | 628.7 | 631.4 | 633.3 | 634.2 | 636.0 | 637.4 |
| 10° | 602.3 | 607.3 | 611.9 | 615.5 | 618.7 | 623.3 | 626.9 | 629.6 | 633.7 | 634.2 | 637.4 |
| 12.5° | 588.2 | 595.5 | 599.1 | 606.0 | 610.5 | 617.3 | 621.0 | 625.1 | 629.6 | 631.9 | 635.5 |
| 15° | 578.2 | 584.6 | 591.4 | 597.8 | 605.0 | 613.2 | 617.8 | 623.3 | 629.6 | 634.6 | 639.2 |
| 17.5° | 570.4 | 579.1 | 586.8 | 595.0 | 604.1 | 612.8 | 619.6 | 625.5 | 633.7 | 636.5 | 641.0 |
| 20° | 568.2 | 577.7 | 585.5 | 594.1 | 603.7 | 615.1 | 623.3 | 629.6 | 637.8 | 642.4 | 646.5 |
| 22.5° | 567.3 | 576.4 | 585.5 | 595.9 | 606.4 | 618.2 | 626.9 | 635.1 | 643.3 | 647.4 | 650.6 |
| 25° | 566.3 | 575.9 | 585.9 | 597.8 | 609.1 | 621.4 | 631.4 | 639.2 | 646.9 | 651.0 | 653.8 |
| 27.5° | 566.3 | 576.4 | 587.3 | 599.1 | 611.4 | 625.1 | 634.6 | 641.9 | 648.7 | 652.4 | 653.3 |
| 30° | 565.9 | 576.4 | 586.8 | 600.0 | 613.2 | 627.3 | 637.8 | 644.6 | 650.6 | 652.8 | 651.9 |
| 32.5° | 566.8 | 577.7 | 589.1 | 602.3 | 616.0 | 629.6 | 640.6 | 648.3 | 651.5 | 651.0 | 650.6 |
| 35° | 571.4 | 581.4 | 594.6 | 607.8 | 621.9 | 634.6 | 645.1 | 650.6 | 653.3 | 652.4 | 650.1 |
| 37.5° | 583.6 | 593.7 | 606.9 | 621.4 | 632.4 | 646.9 | 656.5 | 660.6 | 661.0 | 658.3 | 652.8 |
| 40° | 609.1 | 619.2 | 631.0 | 646.9 | 660.1 | 670.1 | 679.2 | 683.8 | 681.1 | 676.1 | 670.1 |
| 42.5° | 649.7 | 662.4 | 676.5 | 689.3 | 704.7 | 718.4 | 720.7 | 723.4 | 718.9 | 709.3 | 702.0 |
| 45° | 714.8 | 722.5 | 740.7 | 750.3 | 770.3 | 777.1 | 782.1 | 783.5 | 773.5 | 765.7 | 753.0 |
| 47.5° | 808.5 | 823.6 | 836.3 | 845.4 | 860.0 | 869.1 | 879.1 | 874.6 | 866.8 | 853.6 | 836.8 |
| 50° | 956.0 | 965.6 | 982.0 | 998.4 | 1013.9 | 1020.2 | 1020.2 | 1015.7 | 1010.7 | 985.2 | 964.7 |
| 52.5° | 1137.2 | 1138.1 | 1161.8 | 1181.4 | 1194.6 | 1185.0 | 1196.4 | 1185.0 | 1181.9 | 1164.1 | 1147.3 |
| 55° | 1347.1 | 1338.5 | 1367.1 | 1384.4 | 1396.3 | 1407.7 | 1405.4 | 1404.0 | 1392.2 | 1372.2 | 1351.7 |
| 57.5° | 1546.5 | 1571.6 | 1585.2 | 1610.7 | 1616.6 | 1624.4 | 1621.2 | 1616.6 | 1609.8 | 1598.4 | 1589.3 |
| 60° | 1834.2 | 1851.1 | 1863.4 | 1868.4 | 1885.2 | 1887.5 | 1898.9 | 1880.2 | 1884.8 | 1871.6 | 1842.9 |
| 62.5° | 2225.8 | 2207.6 | 2217.1 | 2217.1 | 2212.1 | 2194.4 | 2203.9 | 2211.2 | 2198.9 | 2188.0 | 2183.4 |
| 65° | 2664.2 | 2605.4 | 2549.0 | 2539.4 | 2513.5 | 2507.6 | 2500.3 | 2482.1 | 2474.3 | 2455.2 | 2439.7 |
| 66° | 2795.3 | 2704.2 | 2651.0 | 2618.2 | 2586.8 | 2580.0 | 2569.9 | 2550.8 | 2535.3 | 2508.5 | 2482.5 |
| 67.5° | 2942.3 | 2824.9 | 2744.8 | 2698.3 | 2659.6 | 2634.1 | 2614.1 | 2586.8 | 2562.2 | 2522.1 | 2480.7 |
| 70° | 2932.8 | 2835.8 | 2739.3 | 2668.7 | 2610.5 | 2558.1 | 2527.1 | 2468.4 | 2418.3 | 2361.0 | 2313.6 |
| 72.5° | 2464.3 | 2447.0 | 2391.0 | 2351.4 | 2279.9 | 2252.2 | 2170.2 | 2132.9 | 2063.7 | 1989.5 | 1966.7 |
| 75° | 1713.1 | 1645.3 | 1616.6 | 1600.7 | 1569.3 | 1482.8 | 1426.3 | 1438.6 | 1357.6 | 1285.2 | 1243.8 |
| 77.5° | 748.9 | 762.6 | 683.3 | 647.8 | 620.5 | 573.6 | 529.9 | 499.9 | 482.6 | 471.2 | 419.7 |
| 80° | 207.1 | 180.7 | 178.5 | 165.7 | 163.0 | 145.2 | 147.5 | 134.8 | 126.1 | 124.3 | 120.2 |
| 82.5° | 90.6 | 88.8 | 86.0 | 84.7 | 83.3 | 81.5 | 79.2 | 78.8 | 76.0 | 73.8 | 74.2 |
| 85° | 60.1 | 59.6 | 58.3 | 56.9 | 54.6 | 51.4 | 49.2 | 47.3 | 47.8 | 45.5 | 45.1 |
| 87.5° | 35.1 | 34.1 | 33.7 | 31.9 | 31.4 | 28.7 | 29.1 | 26.9 | 26.4 | 25.9 | 24.6 |
| 90° | 5.0 | 5.5 | 6.8 | 6.4 | 4.6 | 8.6 | 7.3 | 6.4 | 6.8 | 5.5 | 5.5 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P226868
 CATALOG NUMBER: IST-AF-450-LED-E1-SL2-7050

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0° |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5° |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5° |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5° |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10° |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5° |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15° |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.5° |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20° |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.5° |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25° |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27.5° |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30° |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 32.5° |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 35° |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 37.5° |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 40° |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 42.5° |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 45° |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 47.5° |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50° |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 52.5° |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 55° |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 57.5° |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 60° |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 62.5° |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 65° |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 66° |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 67.5° |
| | | | | | | | | | | | | 70° |
| | | | | | | | | | | | | 72.5° |
| | | | | | | | | | | | | 75° |
| | | | | | | | | | | | | 77.5° |
| | | | | | | | | | | | | 80° |
| | | | | | | | | | | | | 82.5° |
| | | | | | | | | | | | | 85° |
| | | | | | | | | | | | | 87.5° |
| | | | | | | | | | | | | 90° |
| | | | | | | | | | | | | 92.5° |
| | | | | | | | | | | | | 95° |
| | | | | | | | | | | | | 97.5° |
| | | | | | | | | | | | | 100° |
| | | | | | | | | | | | | 102.5° |
| | | | | | | | | | | | | 105° |
| | | | | | | | | | | | | 107.5° |

NUMBER: P226868
 NUMBER: IST-AF-450-LED-E1-SL2-7050

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

| 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 110° | 86° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|-----|
| 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 637.8 | 110° | 0.0 |
| 638.7 | 639.6 | 640.1 | 639.6 | 640.6 | 640.1 | 640.6 | 640.1 | 637.8 | 637.4 | 636.9 | 112.5° | 0.0 |
| 639.6 | 641.5 | 641.9 | 642.4 | 641.5 | 642.4 | 640.6 | 633.3 | 625.1 | 616.0 | 608.7 | 115° | 0.0 |
| 640.6 | 642.8 | 644.2 | 644.2 | 644.6 | 643.7 | 636.9 | 621.0 | 601.9 | 582.7 | 568.2 | 117.5° | 0.0 |
| 640.1 | 643.3 | 644.6 | 645.1 | 645.1 | 643.3 | 626.9 | 601.4 | 572.3 | 543.1 | 513.5 | 120° | 0.0 |
| 638.7 | 641.5 | 643.7 | 643.7 | 644.2 | 637.8 | 612.3 | 575.9 | 534.5 | 490.8 | 451.2 | 122.5° | 0.0 |
| 641.5 | 644.2 | 644.2 | 644.2 | 643.7 | 632.8 | 596.8 | 544.0 | 488.5 | 429.3 | 370.6 | 125° | 0.0 |
| 645.6 | 646.9 | 646.0 | 646.0 | 644.2 | 627.8 | 579.5 | 512.6 | 439.8 | 361.5 | 279.5 | 127.5° | 0.0 |
| 649.2 | 650.1 | 649.7 | 647.4 | 645.1 | 622.3 | 561.8 | 479.4 | 381.5 | 279.5 | 198.0 | 130° | 0.0 |
| 652.8 | 653.8 | 651.5 | 647.8 | 644.6 | 615.1 | 540.4 | 437.0 | 315.5 | 191.2 | 131.1 | 132.5° | 0.0 |
| 653.3 | 654.2 | 650.1 | 645.1 | 640.6 | 604.1 | 514.4 | 392.0 | 243.1 | 123.8 | 102.4 | 135° | 0.0 |
| 652.8 | 651.9 | 645.1 | 638.7 | 633.7 | 590.9 | 485.8 | 336.0 | 162.1 | 93.3 | 89.2 | 137.5° | 0.0 |
| 649.7 | 645.6 | 640.1 | 632.8 | 625.5 | 576.4 | 457.1 | 273.6 | 102.4 | 81.0 | 81.0 | 140° | 0.0 |
| 645.1 | 641.0 | 634.2 | 624.6 | 616.4 | 562.2 | 424.3 | 209.9 | 81.9 | 74.7 | 75.6 | 142.5° | 0.0 |
| 643.3 | 638.7 | 628.7 | 618.7 | 608.2 | 549.5 | 389.7 | 141.1 | 73.8 | 70.6 | 71.0 | 145° | 0.0 |
| 646.9 | 639.2 | 629.2 | 617.8 | 605.5 | 538.6 | 353.7 | 98.3 | 69.7 | 66.0 | 66.9 | 147.5° | 0.0 |
| 659.2 | 651.9 | 640.1 | 625.5 | 612.3 | 532.2 | 315.5 | 81.5 | 65.6 | 62.4 | 62.4 | 150° | 0.0 |
| 688.8 | 679.2 | 663.3 | 646.0 | 630.1 | 536.3 | 281.4 | 74.2 | 62.4 | 59.2 | 59.2 | 152.5° | 0.0 |
| 736.6 | 725.2 | 706.6 | 687.0 | 666.0 | 556.3 | 242.7 | 71.5 | 60.1 | 55.5 | 54.6 | 155° | 0.0 |
| 818.6 | 803.5 | 778.9 | 755.7 | 730.7 | 590.9 | 203.5 | 69.7 | 57.4 | 53.3 | 51.4 | 157.5° | 0.0 |
| 947.4 | 925.1 | 896.0 | 865.4 | 834.9 | 654.2 | 172.5 | 67.8 | 55.5 | 51.4 | 49.6 | 160° | 0.0 |
| 1113.1 | 1098.1 | 1061.7 | 1021.6 | 985.2 | 780.3 | 154.8 | 66.5 | 54.2 | 49.2 | 47.8 | 162.5° | 0.0 |
| 1324.3 | 1299.8 | 1271.1 | 1235.1 | 1191.9 | 943.8 | 153.0 | 66.0 | 52.8 | 47.3 | 46.4 | 165° | 0.0 |
| 1547.4 | 1537.9 | 1489.2 | 1466.8 | 1420.0 | 1161.4 | 186.2 | 66.9 | 51.9 | 46.0 | 44.6 | 167.5° | 0.0 |
| 1801.9 | 1805.6 | 1760.0 | 1735.4 | 1696.8 | 1437.3 | 296.4 | 69.7 | 51.9 | 44.6 | 43.2 | 170° | 0.0 |
| 2134.7 | 2140.6 | 2086.9 | 2057.8 | 2025.0 | 1746.4 | 465.7 | 74.2 | 53.3 | 43.2 | 41.9 | 172.5° | 0.0 |
| 2407.4 | 2375.5 | 2340.9 | 2290.0 | 2248.5 | 1918.9 | 448.4 | 82.4 | 55.1 | 41.9 | 40.5 | 175° | 0.0 |
| 2435.6 | 2412.9 | 2369.2 | 2314.1 | 2263.6 | 1919.8 | 391.5 | 85.1 | 55.5 | 41.4 | 40.1 | 177.5° | 0.0 |
| 2432.0 | 2391.5 | 2341.9 | 2295.4 | 2245.8 | 1870.7 | 302.7 | 88.8 | 56.9 | 40.5 | 39.2 | 180° | 0.0 |
| 2263.6 | 2206.6 | 2158.4 | 2094.2 | 2042.3 | 1674.0 | 186.2 | 88.3 | 55.1 | 37.8 | 36.9 | | |
| 1866.6 | 1837.4 | 1780.1 | 1728.6 | 1674.4 | 1354.9 | 127.5 | 78.8 | 48.7 | 34.1 | 34.6 | | |
| 1207.3 | 1174.1 | 1115.8 | 1086.7 | 1056.2 | 866.8 | 99.2 | 64.2 | 41.4 | 30.5 | 31.9 | | |
| 402.9 | 389.7 | 368.3 | 380.1 | 362.4 | 337.8 | 72.8 | 48.7 | 33.2 | 26.4 | 28.2 | | |
| 120.6 | 117.9 | 122.0 | 114.7 | 121.6 | 102.9 | 47.8 | 34.1 | 25.5 | 22.8 | 25.0 | | |
| 71.5 | 70.6 | 70.6 | 70.6 | 68.7 | 64.2 | 31.4 | 23.7 | 19.6 | 19.1 | 20.9 | | |
| 43.7 | 42.8 | 43.2 | 42.8 | 43.7 | 39.2 | 21.4 | 16.4 | 14.6 | 14.1 | 16.8 | | |
| 25.0 | 25.0 | 25.5 | 24.6 | 25.0 | 24.1 | 15.0 | 10.5 | 9.6 | 9.1 | 12.3 | | |
| 5.9 | 5.9 | 4.6 | 4.1 | 4.6 | 6.4 | 4.1 | 3.2 | 2.7 | 2.3 | 4.1 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |

'226868
 IST-AF-450-LED-E1-SL2-7050

REPORT NUMBER: P226868
 CATALOG NUMBER: IST-AF-450

TION (continued):

CANDELA DISTRIBUTION (con

| 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | | 155° | 165° |
|-----|-----|-----|-----|-----|------|------|------|------|------|--------|-------|-------|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0° | 637.8 | 637.8 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5° | 633.3 | 630.1 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5° | 597.3 | 588.7 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5° | 545.4 | 535.4 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10° | 486.2 | 471.2 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5° | 410.6 | 381.1 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15° | 323.2 | 283.6 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.5° | 222.6 | 190.8 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20° | 156.2 | 144.3 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.5° | 120.6 | 121.1 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25° | 100.2 | 104.7 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27.5° | 88.3 | 92.9 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30° | 81.0 | 85.1 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 32.5° | 76.0 | 77.8 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 35° | 70.1 | 71.0 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 37.5° | 65.1 | 65.1 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 40° | 60.5 | 60.1 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 42.5° | 56.5 | 56.0 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 45° | 52.4 | 52.8 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 47.5° | 50.1 | 50.5 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50° | 47.8 | 48.3 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 52.5° | 46.0 | 46.0 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 55° | 44.2 | 43.7 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 57.5° | 42.8 | 41.9 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 60° | 41.4 | 40.5 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 62.5° | 40.5 | 39.2 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 65° | 39.6 | 38.7 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 66° | 39.2 | 38.2 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 67.5° | 38.7 | 37.8 |
| | | | | | | | | | | 70° | 36.9 | 36.0 |
| | | | | | | | | | | 72.5° | 34.1 | 33.7 |
| | | | | | | | | | | 75° | 31.4 | 30.5 |
| | | | | | | | | | | 77.5° | 27.8 | 27.3 |
| | | | | | | | | | | 80° | 23.7 | 23.2 |
| | | | | | | | | | | 82.5° | 20.0 | 19.1 |
| | | | | | | | | | | 85° | 15.9 | 15.0 |
| | | | | | | | | | | 87.5° | 10.9 | 10.0 |
| | | | | | | | | | | 90° | 2.7 | 3.2 |
| | | | | | | | | | | 92.5° | 0.0 | 0.0 |
| | | | | | | | | | | 95° | 0.0 | 0.0 |
| | | | | | | | | | | 97.5° | 0.0 | 0.0 |
| | | | | | | | | | | 100° | 0.0 | 0.0 |
| | | | | | | | | | | 102.5° | 0.0 | 0.0 |
| | | | | | | | | | | 105° | 0.0 | 0.0 |
| | | | | | | | | | | 107.5° | 0.0 | 0.0 |



REPORT NUMBER: P226868

CATALOG NUMBER: IST-AF-450-LED-E1-S

0-LED-E1-SL2-7050

tinued):

| 175° | 180° |
|-------------|-------------|
| 637.8 | 637.8 |
| 627.3 | 631.4 |
| 585.9 | 584.6 |
| 527.2 | 527.6 |
| 456.2 | 457.1 |
| 364.2 | 358.7 |
| 260.9 | 263.1 |
| 181.6 | 181.2 |
| 145.7 | 146.6 |
| 124.7 | 124.7 |
| 111.1 | 111.1 |
| 97.9 | 98.3 |
| 88.8 | 89.7 |
| 80.6 | 81.0 |
| 72.4 | 72.8 |
| 65.6 | 65.6 |
| 61.0 | 61.5 |
| 57.8 | 57.8 |
| 54.6 | 54.6 |
| 51.9 | 52.8 |
| 49.2 | 49.6 |
| 46.4 | 46.9 |
| 43.7 | 43.7 |
| 41.4 | 41.4 |
| 39.6 | 39.2 |
| 38.2 | 37.3 |
| 36.9 | 36.4 |
| 36.4 | 36.0 |
| 36.0 | 35.5 |
| 35.1 | 34.6 |
| 33.7 | 33.2 |
| 31.0 | 30.0 |
| 28.2 | 27.3 |
| 25.9 | 24.6 |
| 21.9 | 20.9 |
| 15.9 | 15.0 |
| 9.6 | 9.6 |
| 2.3 | 2.3 |
| 0.0 | 0.0 |
| 0.0 | 0.0 |
| 0.0 | 0.0 |
| 0.0 | 0.0 |
| 0.0 | 0.0 |
| 0.0 | 0.0 |
| 0.0 | 0.0 |
| 0.0 | 0.0 |
| 0.0 | 0.0 |

CANDELA DISTRIBUTION (continued):

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

