

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: P227346

Luminaire Tested: **IST-AF-450-LED-E1-SLR-8030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)-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-450-LED-E1-SLR-8030-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, WITH  
UPLIGHT GLOW  
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3943.6 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G1  
  
Input Watts (W): 42.01  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

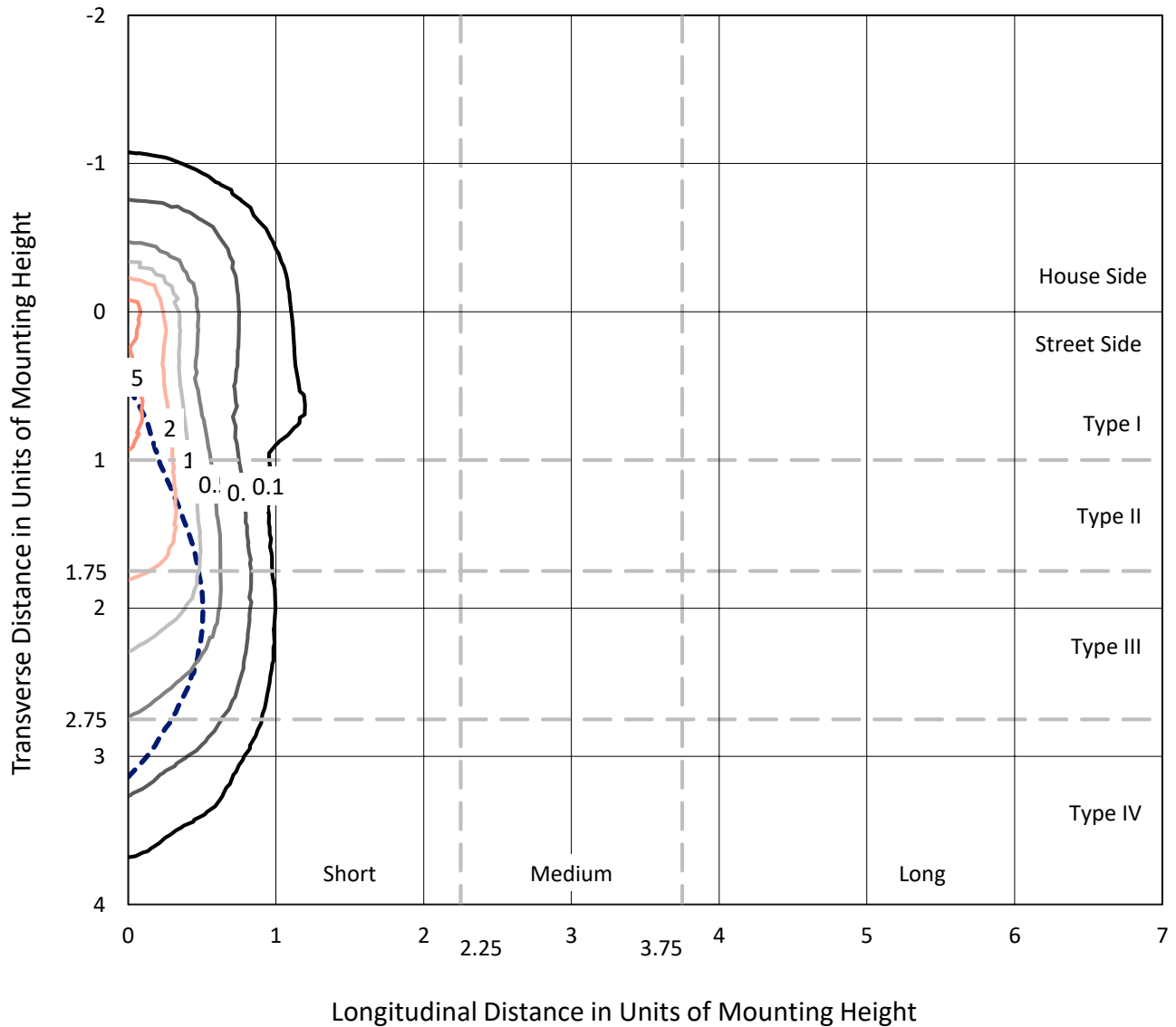


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

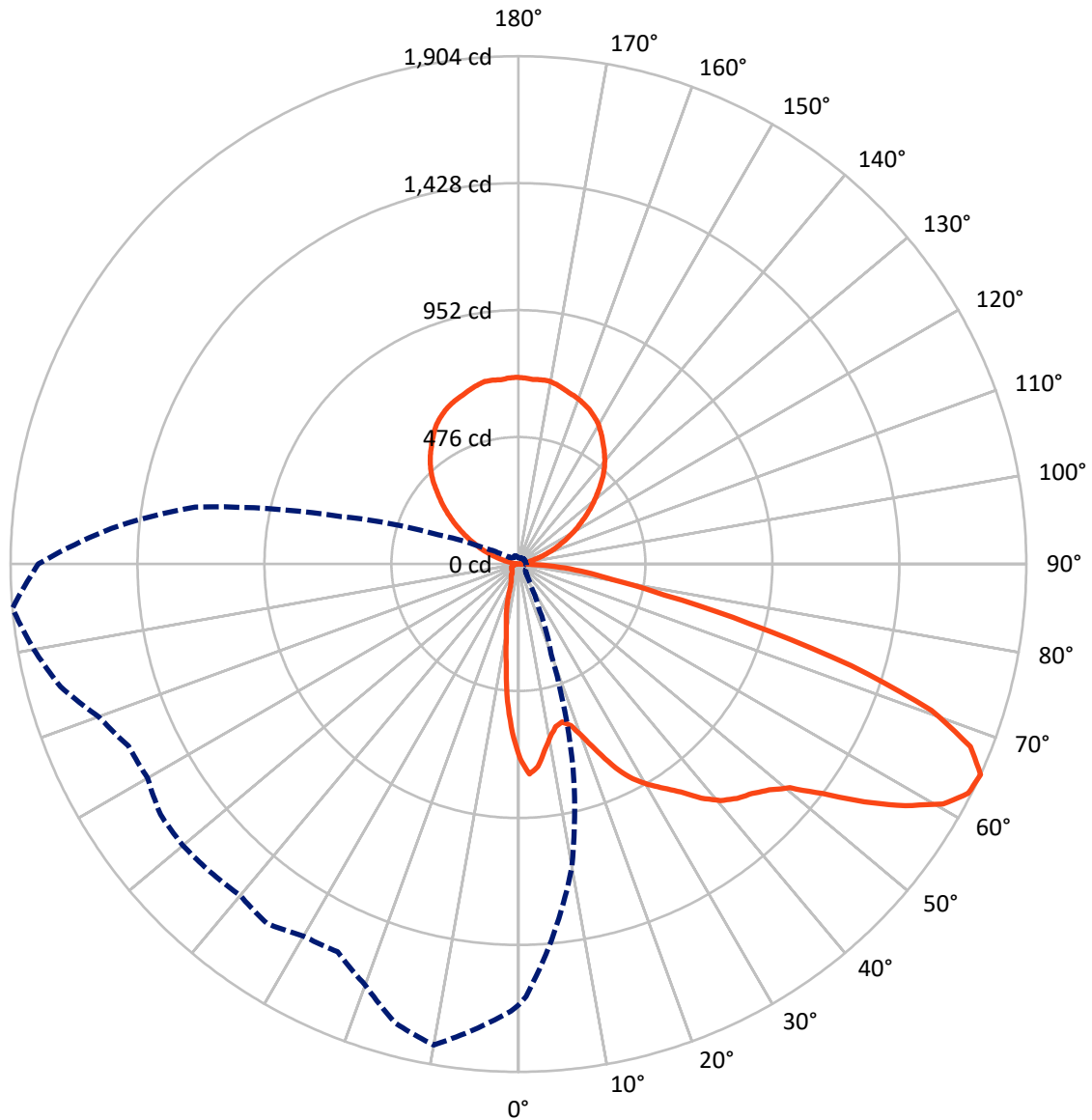


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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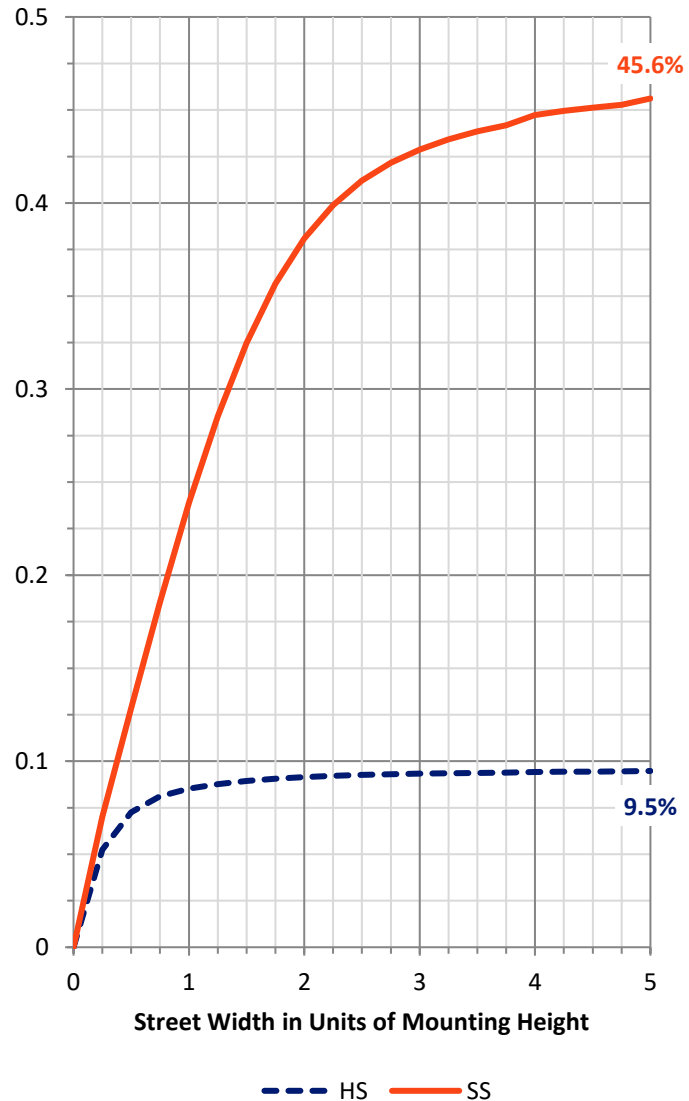
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 379.2    | 867.6  | 1246.7 |
|                    | % Fixture | 9.6      | 22.0   | 31.6   |
| <b>Street Side</b> | Lumens    | 1829.3   | 867.7  | 2696.9 |
|                    | % Fixture | 46.4     | 22.0   | 68.4   |
| <b>Total</b>       | Lumens    | 2208.4   | 1735.2 | 3943.6 |
|                    | % Fixture | 56.0     | 44.0   | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 54.0   | 1.4       |
| 10°-20°   | 104.0  | 2.6       |
| 20°-30°   | 148.2  | 3.8       |
| 30°-40°   | 215.1  | 5.5       |
| 40°-50°   | 307.6  | 7.8       |
| 50°-60°   | 472.3  | 12.0      |
| 60°-70°   | 546.7  | 13.9      |
| 70°-80°   | 278.9  | 7.1       |
| 80°-90°   | 81.5   | 2.1       |
| 90°-100°  | 9.4    | 0.2       |
| 100°-110° | 57.4   | 1.5       |
| 110°-120° | 166.1  | 4.2       |
| 120°-130° | 273.2  | 6.9       |
| 130°-140° | 336.8  | 8.5       |
| 140°-150° | 344.6  | 8.7       |
| 150°-160° | 290.3  | 7.4       |
| 160°-170° | 191.2  | 4.8       |
| 170°-180° | 66.3   | 1.7       |
| 0°-90°    | 2208.4 | 56.0      |
| 0°-180°   | 3943.6 | 100.0     |



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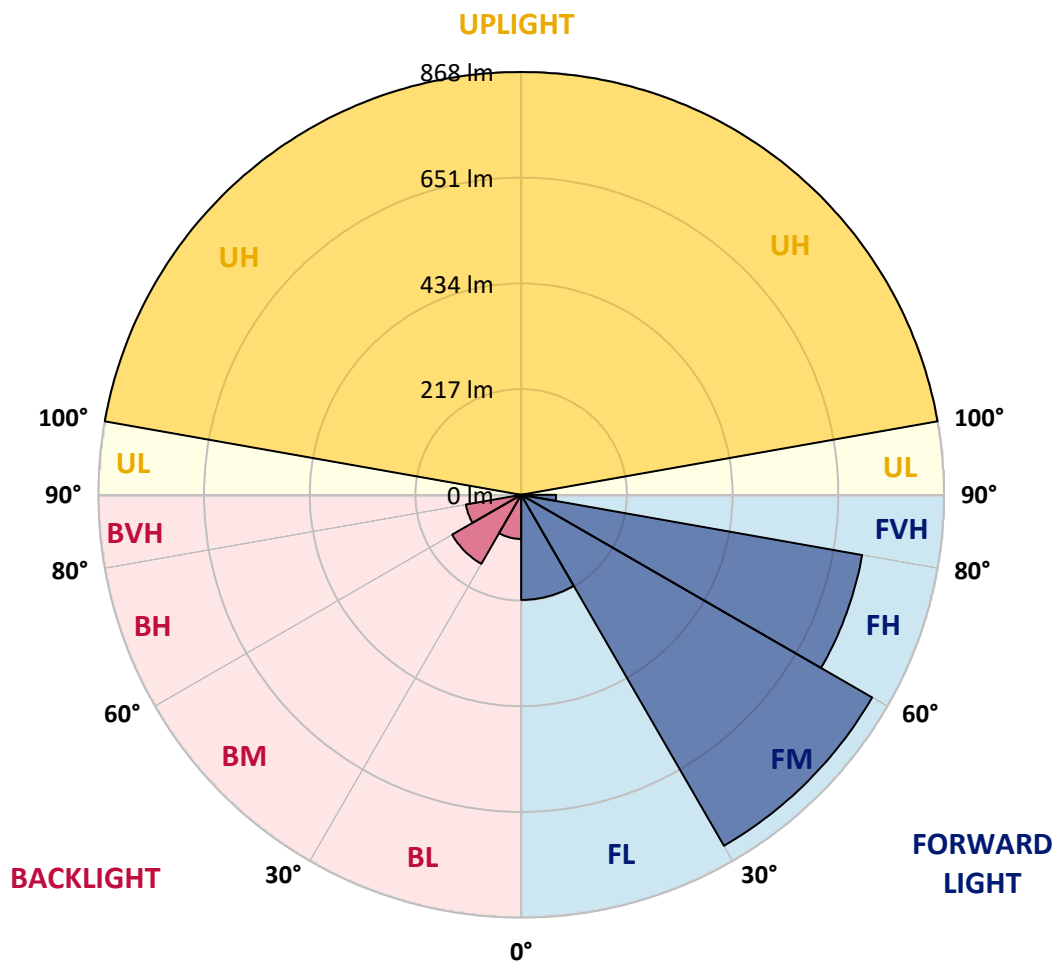
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|------|-------------|--------|-----------|-------------------------|---------|---------|
|      |             |        |           | B                       | U       | G       |
| FL   | (0°-30°)    | 215.6  | 5.5       |                         |         |         |
| FM   | (30°-60°)   | 831.5  | 21.1      |                         |         |         |
| FH   | (60°-80°)   | 710.5  | 18.0      |                         |         | G1/1800 |
| FVH  | (80°-90°)   | 71.7   | 1.8       |                         |         | G1/100  |
| BL   | (0°-30°)    | 90.6   | 2.3       | B0/110                  |         |         |
| BM   | (30°-60°)   | 163.5  | 4.1       | B0/220                  |         |         |
| BH   | (60°-80°)   | 115.2  | 2.9       | B1/500                  |         | G1/500  |
| BVH  | (80°-90°)   | 9.9    | 0.3       |                         |         | G0/10   |
| UL   | (90°-100°)  | 9.4    | 0.2       |                         | U1/10   |         |
| UH   | (100°-180°) | 867.6  | 22.0      |                         | U4/1000 |         |

**BUG Rating: B1-U5-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 1°     | 5°     | 10°    | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 729.3  | 729.3  | 729.3  | 729.3  | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 |
| 2.5°   | 754.9  | 750.4  | 744.9  | 735.2  | 726.7 | 714.4 | 711.4 | 696.2 | 686.5 | 688.8 | 671.3 |
| 5°     | 708.8  | 706.2  | 692.5  | 670.9  | 656.8 | 629.0 | 613.0 | 604.8 | 581.8 | 578.8 | 572.5 |
| 7.5°   | 644.2  | 636.4  | 614.1  | 587.4  | 563.2 | 542.8 | 517.1 | 497.4 | 480.0 | 469.2 | 450.3 |
| 10°    | 588.8  | 580.7  | 556.5  | 523.8  | 494.8 | 466.2 | 445.4 | 419.8 | 394.9 | 375.6 | 360.4 |
| 12.5°  | 562.1  | 553.2  | 524.9  | 487.0  | 454.7 | 419.1 | 389.7 | 364.4 | 350.7 | 341.0 | 328.4 |
| 15°    | 572.5  | 559.5  | 525.7  | 480.4  | 440.2 | 402.3 | 371.1 | 344.0 | 327.7 | 312.8 | 297.9 |
| 17.5°  | 614.5  | 598.5  | 559.9  | 505.2  | 449.5 | 400.5 | 355.9 | 325.1 | 299.1 | 276.8 | 256.7 |
| 20°    | 686.5  | 674.7  | 618.6  | 542.0  | 469.6 | 401.6 | 342.9 | 302.4 | 270.8 | 242.6 | 215.8 |
| 22.5°  | 770.9  | 753.0  | 698.1  | 591.8  | 495.2 | 408.3 | 334.7 | 283.5 | 245.9 | 208.0 | 179.1 |
| 25°    | 859.3  | 845.5  | 772.7  | 658.7  | 534.6 | 422.0 | 328.4 | 266.7 | 216.6 | 174.6 | 142.7 |
| 27.5°  | 930.6  | 918.4  | 846.3  | 723.0  | 570.6 | 433.9 | 319.1 | 250.8 | 193.2 | 142.7 | 107.4 |
| 30°    | 988.9  | 978.5  | 903.1  | 775.7  | 614.5 | 438.0 | 306.1 | 232.2 | 167.2 | 115.2 | 88.8  |
| 32.5°  | 1054.3 | 1042.8 | 957.7  | 812.5  | 634.2 | 434.3 | 291.3 | 214.7 | 146.4 | 101.8 | 76.2  |
| 35°    | 1126.0 | 1112.7 | 1018.7 | 852.2  | 650.5 | 421.3 | 278.6 | 202.1 | 136.3 | 92.5  | 67.6  |
| 37.5°  | 1189.9 | 1181.4 | 1073.7 | 891.6  | 669.1 | 399.7 | 266.4 | 188.4 | 129.7 | 85.8  | 60.9  |
| 40°    | 1239.7 | 1237.5 | 1134.6 | 924.3  | 683.6 | 384.1 | 256.3 | 177.6 | 121.1 | 83.2  | 58.7  |
| 42.5°  | 1279.8 | 1279.1 | 1184.4 | 953.7  | 687.3 | 370.4 | 248.5 | 167.9 | 113.3 | 76.9  | 59.8  |
| 45°    | 1318.5 | 1318.1 | 1232.7 | 994.5  | 689.9 | 371.1 | 242.6 | 162.0 | 106.6 | 72.8  | 56.5  |
| 47.5°  | 1355.3 | 1360.8 | 1283.2 | 1051.4 | 717.4 | 383.8 | 240.4 | 156.4 | 101.4 | 68.4  | 53.5  |
| 50°    | 1416.9 | 1411.4 | 1363.1 | 1128.3 | 761.6 | 408.3 | 236.6 | 151.6 | 96.6  | 64.3  | 50.5  |
| 52.5°  | 1533.9 | 1527.6 | 1484.5 | 1231.2 | 809.9 | 433.5 | 231.8 | 144.9 | 91.0  | 59.8  | 47.2  |
| 55°    | 1677.0 | 1685.5 | 1625.7 | 1356.4 | 875.6 | 454.7 | 226.6 | 136.0 | 83.6  | 54.6  | 45.0  |
| 57.5°  | 1760.9 | 1753.9 | 1685.5 | 1428.4 | 916.1 | 465.5 | 223.3 | 125.6 | 72.1  | 50.2  | 42.7  |
| 59°    | 1780.6 | 1768.7 | 1675.5 | 1440.7 | 926.9 | 460.3 | 221.4 | 115.5 | 66.1  | 47.9  | 41.6  |
| 60°    | 1778.8 | 1764.3 | 1659.5 | 1432.9 | 929.9 | 454.0 | 218.4 | 109.6 | 62.8  | 46.8  | 41.2  |
| 62.5°  | 1740.5 | 1717.8 | 1568.9 | 1338.5 | 888.3 | 422.4 | 206.2 | 95.5  | 58.3  | 45.3  | 39.0  |
| 65°    | 1653.6 | 1621.6 | 1416.6 | 1154.3 | 792.8 | 359.6 | 178.3 | 90.3  | 59.4  | 44.6  | 37.5  |
| 67.5°  | 1503.5 | 1477.9 | 1220.8 | 955.1  | 631.9 | 290.5 | 154.2 | 88.0  | 60.9  | 45.3  | 35.3  |
| 70°    | 1223.0 | 1201.1 | 952.5  | 715.1  | 473.3 | 231.1 | 140.1 | 86.9  | 59.8  | 43.5  | 33.4  |
| 72.5°  | 862.6  | 824.7  | 633.0  | 500.8  | 300.2 | 185.8 | 121.5 | 82.1  | 58.3  | 42.0  | 30.5  |
| 75°    | 524.9  | 532.0  | 402.3  | 364.8  | 189.5 | 127.4 | 95.5  | 69.1  | 51.6  | 37.5  | 27.5  |
| 77.5°  | 346.2  | 345.9  | 296.8  | 257.5  | 96.2  | 79.1  | 67.6  | 53.1  | 40.5  | 30.8  | 23.8  |
| 80°    | 234.8  | 237.4  | 215.5  | 175.7  | 53.5  | 47.6  | 44.2  | 38.6  | 29.7  | 23.4  | 19.7  |
| 82.5°  | 144.5  | 144.9  | 166.8  | 131.5  | 35.7  | 30.1  | 28.2  | 26.0  | 21.2  | 18.2  | 15.2  |
| 85°    | 50.2   | 51.3   | 58.3   | 92.9   | 24.1  | 19.7  | 19.7  | 18.2  | 16.0  | 12.3  | 10.0  |
| 87.5°  | 21.5   | 21.2   | 25.3   | 25.3   | 11.9  | 10.0  | 9.3   | 9.3   | 8.9   | 6.7   | 5.6   |
| 90°    | 6.5    | 6.1    | 6.1    | 7.5    | 8.9   | 10.1  | 10.2  | 10.6  | 10.6  | 9.7   | 8.5   |
| 92.5°  | 4.0    | 4.0    | 4.0    | 4.5    | 5.0   | 5.5   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   |
| 95°    | 5.0    | 5.0    | 5.0    | 5.5    | 6.0   | 6.5   | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   |
| 97.5°  | 7.0    | 7.0    | 7.0    | 7.5    | 8.0   | 8.0   | 8.0   | 8.5   | 9.0   | 9.0   | 9.0   |
| 100°   | 8.0    | 8.0    | 8.0    | 8.5    | 9.0   | 9.5   | 10.0  | 11.0  | 12.0  | 16.5  | 21.0  |
| 102.5° | 11.0   | 11.0   | 11.0   | 12.0   | 13.0  | 15.5  | 18.0  | 22.5  | 27.0  | 33.5  | 40.0  |
| 105°   | 21.0   | 21.2   | 22.0   | 24.5   | 27.0  | 31.5  | 36.0  | 42.0  | 48.0  | 55.5  | 63.0  |
| 107.5° | 41.0   | 41.2   | 42.0   | 45.5   | 49.0  | 53.5  | 58.0  | 65.5  | 73.0  | 80.5  | 88.0  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 1°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 66.0  | 66.4  | 68.0  | 71.0  | 74.0  | 80.5  | 87.0  | 94.5  | 102.0 | 108.0 | 114.0 |
| 112.5° | 99.0  | 99.0  | 99.0  | 102.5 | 106.0 | 113.5 | 121.0 | 127.5 | 134.0 | 138.5 | 143.0 |
| 115°   | 140.0 | 139.8 | 139.0 | 143.0 | 147.0 | 153.0 | 159.0 | 163.5 | 168.0 | 171.0 | 174.0 |
| 117.5° | 184.0 | 184.0 | 184.0 | 186.5 | 189.0 | 193.0 | 197.0 | 199.5 | 202.0 | 203.5 | 205.0 |
| 120°   | 225.0 | 224.6 | 223.0 | 224.5 | 226.0 | 229.5 | 233.0 | 235.0 | 237.0 | 240.0 | 243.0 |
| 122.5° | 263.0 | 262.4 | 260.0 | 260.5 | 261.0 | 264.0 | 267.0 | 269.0 | 271.0 | 274.0 | 277.0 |
| 125°   | 298.0 | 297.2 | 294.0 | 295.0 | 296.0 | 297.5 | 299.0 | 302.0 | 305.0 | 307.5 | 310.0 |
| 127.5° | 330.0 | 329.8 | 329.0 | 329.0 | 329.0 | 331.0 | 333.0 | 336.0 | 339.0 | 339.5 | 340.0 |
| 130°   | 363.0 | 362.6 | 361.0 | 361.5 | 362.0 | 364.0 | 366.0 | 368.0 | 370.0 | 371.0 | 372.0 |
| 132.5° | 396.0 | 395.6 | 394.0 | 393.5 | 393.0 | 397.0 | 401.0 | 402.5 | 404.0 | 404.5 | 405.0 |
| 135°   | 429.0 | 428.4 | 426.0 | 426.0 | 426.0 | 429.0 | 432.0 | 433.5 | 435.0 | 436.0 | 437.0 |
| 137.5° | 460.0 | 459.4 | 457.0 | 458.0 | 459.0 | 459.5 | 460.0 | 462.0 | 464.0 | 466.0 | 468.0 |
| 140°   | 488.0 | 487.4 | 485.0 | 486.0 | 487.0 | 488.0 | 489.0 | 490.0 | 491.0 | 494.0 | 497.0 |
| 142.5° | 518.0 | 517.4 | 515.0 | 516.0 | 517.0 | 517.5 | 518.0 | 519.5 | 521.0 | 523.0 | 525.0 |
| 145°   | 550.0 | 549.2 | 546.0 | 545.0 | 544.0 | 545.5 | 547.0 | 548.5 | 550.0 | 550.5 | 551.0 |
| 147.5° | 575.0 | 574.4 | 572.0 | 571.5 | 571.0 | 572.5 | 574.0 | 574.0 | 574.0 | 574.5 | 575.0 |
| 150°   | 595.0 | 594.4 | 592.0 | 592.5 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 |
| 152.5° | 611.0 | 610.4 | 608.0 | 608.0 | 608.0 | 608.5 | 609.0 | 609.5 | 610.0 | 610.0 | 610.0 |
| 155°   | 629.0 | 628.2 | 625.0 | 625.0 | 625.0 | 626.0 | 627.0 | 628.5 | 630.0 | 629.0 | 628.0 |
| 157.5° | 646.0 | 645.4 | 643.0 | 643.0 | 643.0 | 643.5 | 644.0 | 645.0 | 646.0 | 645.5 | 645.0 |
| 160°   | 663.0 | 662.4 | 660.0 | 659.5 | 659.0 | 657.5 | 656.0 | 655.5 | 655.0 | 655.0 | 655.0 |
| 162.5° | 673.0 | 672.2 | 669.0 | 669.0 | 669.0 | 667.0 | 665.0 | 663.0 | 661.0 | 662.0 | 663.0 |
| 165°   | 681.0 | 680.4 | 678.0 | 677.0 | 676.0 | 676.0 | 676.0 | 674.5 | 673.0 | 673.0 | 673.0 |
| 167.5° | 690.0 | 689.4 | 687.0 | 685.5 | 684.0 | 685.0 | 686.0 | 687.0 | 688.0 | 686.5 | 685.0 |
| 170°   | 698.0 | 697.4 | 695.0 | 693.5 | 692.0 | 692.0 | 692.0 | 692.5 | 693.0 | 692.0 | 691.0 |
| 172.5° | 699.0 | 698.6 | 697.0 | 696.0 | 695.0 | 694.0 | 693.0 | 691.5 | 690.0 | 690.0 | 690.0 |
| 175°   | 700.0 | 699.6 | 698.0 | 697.5 | 697.0 | 696.0 | 695.0 | 693.0 | 691.0 | 690.5 | 690.0 |
| 177.5° | 707.0 | 706.6 | 705.0 | 702.5 | 700.0 | 699.5 | 699.0 | 698.0 | 697.0 | 696.0 | 695.0 |
| 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |





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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 |
| 2.5°   | 666.1 | 662.0 | 650.5 | 647.5 | 651.2 | 643.8 | 642.0 | 640.1 | 626.4 | 633.4 | 625.2 |
| 5°     | 556.9 | 555.8 | 532.4 | 537.2 | 532.4 | 524.2 | 520.9 | 528.7 | 514.9 | 517.9 | 519.7 |
| 7.5°   | 428.0 | 423.5 | 407.9 | 397.5 | 391.2 | 385.6 | 378.6 | 367.0 | 376.0 | 374.1 | 388.2 |
| 10°    | 347.4 | 337.7 | 328.0 | 313.6 | 305.4 | 297.6 | 289.4 | 284.9 | 274.5 | 273.4 | 268.6 |
| 12.5°  | 318.4 | 304.6 | 292.4 | 279.7 | 271.2 | 255.6 | 242.6 | 234.4 | 227.7 | 217.3 | 209.5 |
| 15°    | 279.7 | 268.2 | 252.3 | 240.0 | 226.6 | 212.5 | 199.9 | 189.5 | 184.6 | 175.0 | 170.5 |
| 17.5°  | 240.7 | 223.3 | 204.0 | 191.7 | 173.1 | 158.6 | 148.2 | 141.5 | 134.5 | 128.5 | 123.3 |
| 20°    | 193.9 | 171.3 | 150.5 | 134.9 | 120.4 | 106.3 | 101.4 | 93.2  | 90.3  | 88.0  | 89.9  |
| 22.5°  | 147.5 | 124.1 | 102.5 | 90.6  | 82.8  | 79.1  | 75.0  | 73.6  | 72.4  | 72.1  | 72.8  |
| 25°    | 108.1 | 88.4  | 78.0  | 73.6  | 70.6  | 68.4  | 66.9  | 65.8  | 65.0  | 64.6  | 65.0  |
| 27.5°  | 83.6  | 73.2  | 68.0  | 65.0  | 62.8  | 61.3  | 60.6  | 59.4  | 59.1  | 58.7  | 59.1  |
| 30°    | 72.4  | 66.9  | 63.2  | 60.2  | 57.6  | 55.0  | 53.9  | 53.5  | 53.9  | 54.2  | 53.9  |
| 32.5°  | 63.2  | 59.1  | 55.0  | 52.4  | 50.5  | 49.0  | 49.0  | 48.3  | 48.3  | 49.4  | 49.8  |
| 35°    | 57.2  | 53.1  | 50.2  | 46.8  | 44.6  | 43.1  | 42.0  | 41.2  | 41.6  | 41.6  | 42.7  |
| 37.5°  | 52.4  | 49.4  | 46.8  | 43.8  | 41.6  | 40.1  | 39.4  | 38.6  | 38.3  | 37.9  | 37.9  |
| 40°    | 49.0  | 47.2  | 45.0  | 42.0  | 39.8  | 38.3  | 37.5  | 36.8  | 36.4  | 36.0  | 36.0  |
| 42.5°  | 49.0  | 45.3  | 43.8  | 41.2  | 38.6  | 37.2  | 36.0  | 35.3  | 34.6  | 34.6  | 34.6  |
| 45°    | 53.9  | 46.4  | 43.8  | 40.9  | 38.3  | 36.4  | 35.3  | 34.2  | 33.4  | 33.4  | 33.1  |
| 47.5°  | 52.4  | 52.0  | 44.6  | 40.9  | 38.6  | 36.4  | 34.9  | 33.8  | 33.1  | 32.7  | 32.3  |
| 50°    | 49.8  | 54.2  | 49.8  | 42.0  | 38.6  | 36.0  | 34.6  | 33.4  | 32.3  | 31.9  | 31.9  |
| 52.5°  | 48.3  | 50.5  | 51.6  | 43.5  | 39.0  | 36.0  | 34.2  | 33.1  | 32.3  | 31.6  | 31.2  |
| 55°    | 44.6  | 47.6  | 49.4  | 42.7  | 39.0  | 35.3  | 33.4  | 32.3  | 31.2  | 30.8  | 30.5  |
| 57.5°  | 40.9  | 43.1  | 47.6  | 42.7  | 37.9  | 34.9  | 32.7  | 31.2  | 30.5  | 30.1  | 29.7  |
| 59°    | 39.8  | 39.8  | 42.4  | 43.8  | 37.2  | 34.6  | 32.3  | 30.8  | 30.1  | 29.7  | 29.0  |
| 60°    | 38.6  | 38.6  | 40.1  | 45.0  | 36.8  | 34.2  | 31.9  | 30.5  | 29.3  | 29.3  | 29.0  |
| 62.5°  | 37.2  | 36.0  | 36.8  | 42.0  | 35.7  | 33.4  | 31.2  | 29.7  | 28.6  | 28.6  | 28.2  |
| 65°    | 35.3  | 33.8  | 33.8  | 34.9  | 33.4  | 31.9  | 30.5  | 29.0  | 27.5  | 27.5  | 27.9  |
| 67.5°  | 33.4  | 31.9  | 31.6  | 31.6  | 30.8  | 30.5  | 29.0  | 27.5  | 26.7  | 26.7  | 26.7  |
| 70°    | 30.8  | 29.7  | 29.3  | 28.6  | 28.6  | 28.2  | 27.1  | 26.0  | 25.3  | 25.6  | 25.3  |
| 72.5°  | 27.9  | 27.1  | 26.4  | 26.4  | 26.0  | 25.6  | 24.5  | 23.8  | 23.4  | 23.8  | 23.8  |
| 75°    | 24.9  | 23.8  | 23.8  | 23.0  | 23.0  | 22.7  | 21.5  | 21.2  | 20.8  | 21.2  | 21.5  |
| 77.5°  | 21.2  | 20.4  | 20.1  | 20.1  | 20.1  | 20.1  | 18.6  | 18.2  | 18.2  | 18.9  | 18.9  |
| 80°    | 17.5  | 17.1  | 16.7  | 16.7  | 16.7  | 16.3  | 15.6  | 15.2  | 15.2  | 15.6  | 16.0  |
| 82.5°  | 13.4  | 12.6  | 12.6  | 13.0  | 13.4  | 13.4  | 12.3  | 11.5  | 11.5  | 12.3  | 13.0  |
| 85°    | 8.9   | 8.9   | 8.9   | 9.3   | 9.3   | 9.7   | 8.9   | 7.8   | 8.2   | 8.5   | 9.7   |
| 87.5°  | 4.8   | 5.2   | 4.8   | 4.5   | 5.2   | 4.8   | 4.8   | 4.5   | 4.8   | 5.2   | 5.6   |
| 90°    | 8.5   | 8.5   | 9.1   | 9.7   | 9.4   | 9.7   | 8.7   | 8.1   | 7.4   | 7.4   | 8.7   |
| 92.5°  | 6.5   | 7.0   | 7.0   | 7.0   | 6.5   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   |
| 95°    | 7.0   | 7.0   | 7.5   | 8.0   | 7.5   | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   |
| 97.5°  | 10.5  | 12.0  | 11.0  | 10.0  | 9.5   | 9.0   | 8.5   | 8.0   | 8.0   | 8.0   | 8.5   |
| 100°   | 25.0  | 29.0  | 27.5  | 26.0  | 24.5  | 23.0  | 21.0  | 19.0  | 19.0  | 19.0  | 21.0  |
| 102.5° | 45.0  | 50.0  | 48.5  | 47.0  | 44.5  | 42.0  | 40.5  | 39.0  | 38.0  | 39.0  | 40.5  |
| 105°   | 67.5  | 72.0  | 71.0  | 70.0  | 67.5  | 65.0  | 63.0  | 61.0  | 61.0  | 61.0  | 63.0  |
| 107.5° | 91.5  | 95.0  | 94.5  | 94.0  | 92.0  | 90.0  | 88.5  | 87.0  | 86.0  | 87.0  | 88.5  |



REPORT NUMBER: P227346

CATALOG NUMBER: IST-AF-450-LED-E1-SLR-8030-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 117.0 | 120.0 | 120.5 | 121.0 | 120.0 | 119.0 | 117.5 | 116.0 | 117.0 | 116.0 | 117.5 |
| 112.5° | 145.5 | 148.0 | 149.0 | 150.0 | 149.5 | 149.0 | 148.0 | 147.0 | 147.0 | 147.0 | 148.0 |
| 115°   | 176.5 | 179.0 | 180.5 | 182.0 | 180.5 | 179.0 | 178.0 | 177.0 | 178.0 | 177.0 | 178.0 |
| 117.5° | 208.0 | 211.0 | 213.0 | 215.0 | 212.5 | 210.0 | 209.0 | 208.0 | 209.0 | 208.0 | 209.0 |
| 120°   | 244.5 | 246.0 | 248.0 | 250.0 | 247.5 | 245.0 | 244.0 | 243.0 | 243.0 | 243.0 | 244.0 |
| 122.5° | 278.0 | 279.0 | 281.0 | 283.0 | 280.5 | 278.0 | 277.0 | 276.0 | 277.0 | 276.0 | 277.0 |
| 125°   | 311.5 | 313.0 | 314.0 | 315.0 | 312.5 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 |
| 127.5° | 342.5 | 345.0 | 345.5 | 346.0 | 346.0 | 346.0 | 345.5 | 345.0 | 347.0 | 345.0 | 345.5 |
| 130°   | 374.5 | 377.0 | 379.0 | 381.0 | 381.0 | 381.0 | 380.0 | 379.0 | 380.0 | 379.0 | 380.0 |
| 132.5° | 408.0 | 411.0 | 413.5 | 416.0 | 415.0 | 414.0 | 414.0 | 414.0 | 415.0 | 414.0 | 414.0 |
| 135°   | 440.0 | 443.0 | 445.5 | 448.0 | 447.5 | 447.0 | 448.5 | 450.0 | 451.0 | 450.0 | 448.5 |
| 137.5° | 470.5 | 473.0 | 474.0 | 475.0 | 475.5 | 476.0 | 478.5 | 481.0 | 482.0 | 481.0 | 478.5 |
| 140°   | 498.5 | 500.0 | 501.0 | 502.0 | 503.0 | 504.0 | 506.5 | 509.0 | 511.0 | 509.0 | 506.5 |
| 142.5° | 526.0 | 527.0 | 530.0 | 533.0 | 533.0 | 533.0 | 533.5 | 534.0 | 536.0 | 534.0 | 533.5 |
| 145°   | 553.5 | 556.0 | 559.0 | 562.0 | 561.5 | 561.0 | 559.5 | 558.0 | 560.0 | 558.0 | 559.5 |
| 147.5° | 577.5 | 580.0 | 582.5 | 585.0 | 585.5 | 586.0 | 584.5 | 583.0 | 585.0 | 583.0 | 584.5 |
| 150°   | 595.0 | 597.0 | 598.5 | 600.0 | 601.5 | 603.0 | 604.5 | 606.0 | 610.0 | 606.0 | 604.5 |
| 152.5° | 610.5 | 611.0 | 612.5 | 614.0 | 616.0 | 618.0 | 620.5 | 623.0 | 628.0 | 623.0 | 620.5 |
| 155°   | 627.0 | 626.0 | 628.5 | 631.0 | 633.5 | 636.0 | 637.0 | 638.0 | 641.0 | 638.0 | 637.0 |
| 157.5° | 644.5 | 644.0 | 646.0 | 648.0 | 649.0 | 650.0 | 650.0 | 650.0 | 655.0 | 650.0 | 650.0 |
| 160°   | 656.5 | 658.0 | 661.0 | 664.0 | 662.5 | 661.0 | 660.5 | 660.0 | 666.0 | 660.0 | 660.5 |
| 162.5° | 665.0 | 667.0 | 669.0 | 671.0 | 670.5 | 670.0 | 669.0 | 668.0 | 674.0 | 668.0 | 669.0 |
| 165°   | 672.5 | 672.0 | 674.5 | 677.0 | 678.5 | 680.0 | 679.0 | 678.0 | 682.0 | 678.0 | 679.0 |
| 167.5° | 681.5 | 678.0 | 681.0 | 684.0 | 686.0 | 688.0 | 688.0 | 688.0 | 694.0 | 688.0 | 688.0 |
| 170°   | 688.5 | 686.0 | 687.5 | 689.0 | 691.5 | 694.0 | 695.0 | 696.0 | 701.0 | 696.0 | 695.0 |
| 172.5° | 689.5 | 689.0 | 690.5 | 692.0 | 693.0 | 694.0 | 695.0 | 696.0 | 701.0 | 696.0 | 695.0 |
| 175°   | 690.0 | 690.0 | 692.5 | 695.0 | 695.5 | 696.0 | 695.0 | 694.0 | 699.0 | 694.0 | 695.0 |
| 177.5° | 694.5 | 694.0 | 696.5 | 699.0 | 700.0 | 701.0 | 699.5 | 698.0 | 702.0 | 698.0 | 699.5 |
| 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |



REPORT NUMBER: P227346

CATALOG NUMBER: IST-AF-450-LED-E1-SLR-8030-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 105°  | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 |
| 2.5°   | 632.7 | 626.4 | 623.0 | 636.0 | 634.9 | 623.8 | 623.8 | 631.6 | 631.9 | 625.2 | 633.0 |
| 5°     | 522.0 | 515.7 | 521.6 | 516.4 | 519.4 | 519.0 | 523.5 | 515.3 | 518.6 | 515.7 | 508.6 |
| 7.5°   | 387.1 | 399.7 | 406.4 | 397.9 | 408.7 | 414.2 | 406.4 | 414.2 | 402.0 | 391.9 | 401.6 |
| 10°    | 266.4 | 280.5 | 277.9 | 291.6 | 296.8 | 299.8 | 305.4 | 298.3 | 289.8 | 287.2 | 280.1 |
| 12.5°  | 206.6 | 203.6 | 202.5 | 208.0 | 211.4 | 206.6 | 210.6 | 206.2 | 201.7 | 193.9 | 193.6 |
| 15°    | 161.6 | 156.8 | 153.4 | 147.1 | 144.9 | 146.0 | 147.9 | 147.9 | 138.9 | 139.3 | 142.7 |
| 17.5°  | 122.6 | 121.5 | 118.9 | 113.7 | 110.3 | 111.5 | 111.1 | 109.2 | 108.1 | 108.9 | 112.9 |
| 20°    | 92.1  | 91.0  | 92.5  | 94.0  | 92.9  | 93.2  | 91.8  | 89.9  | 89.2  | 89.9  | 90.6  |
| 22.5°  | 72.8  | 74.3  | 76.2  | 78.4  | 78.8  | 80.6  | 80.2  | 80.6  | 79.1  | 78.4  | 76.5  |
| 25°    | 66.5  | 67.2  | 66.1  | 66.5  | 66.5  | 68.4  | 68.0  | 68.0  | 66.5  | 66.1  | 66.5  |
| 27.5°  | 58.7  | 58.3  | 58.3  | 59.1  | 59.1  | 60.2  | 60.9  | 60.2  | 58.7  | 58.3  | 58.7  |
| 30°    | 54.2  | 53.9  | 53.5  | 53.9  | 53.5  | 53.9  | 54.6  | 54.6  | 53.9  | 52.8  | 53.1  |
| 32.5°  | 49.8  | 49.8  | 49.4  | 49.8  | 49.4  | 49.4  | 50.2  | 49.0  | 49.0  | 48.7  | 48.7  |
| 35°    | 43.8  | 44.6  | 45.3  | 45.7  | 45.7  | 45.7  | 46.4  | 45.3  | 45.0  | 44.6  | 44.6  |
| 37.5°  | 37.9  | 38.6  | 40.9  | 42.0  | 42.4  | 43.1  | 43.5  | 42.7  | 42.0  | 41.2  | 40.5  |
| 40°    | 36.0  | 36.0  | 36.8  | 38.3  | 39.8  | 40.1  | 40.9  | 39.8  | 39.4  | 38.3  | 37.2  |
| 42.5°  | 34.6  | 34.9  | 34.9  | 35.3  | 35.7  | 36.4  | 37.5  | 36.4  | 35.7  | 34.9  | 33.8  |
| 45°    | 33.4  | 33.4  | 33.4  | 33.4  | 33.1  | 33.1  | 33.4  | 32.7  | 32.3  | 31.9  | 31.9  |
| 47.5°  | 32.7  | 32.3  | 31.9  | 31.6  | 31.2  | 30.8  | 30.8  | 30.1  | 30.1  | 30.1  | 30.1  |
| 50°    | 31.9  | 31.2  | 30.8  | 30.5  | 29.7  | 29.7  | 29.7  | 29.0  | 28.6  | 28.6  | 29.0  |
| 52.5°  | 30.8  | 30.5  | 30.1  | 29.7  | 29.3  | 29.0  | 29.0  | 28.2  | 27.9  | 27.9  | 27.9  |
| 55°    | 30.5  | 30.1  | 29.3  | 29.0  | 28.6  | 29.0  | 28.6  | 28.2  | 27.5  | 27.5  | 27.5  |
| 57.5°  | 29.3  | 29.7  | 29.3  | 28.6  | 28.6  | 28.6  | 28.6  | 27.9  | 27.5  | 26.7  | 27.1  |
| 59°    | 29.0  | 29.3  | 29.0  | 28.6  | 28.2  | 28.6  | 28.6  | 27.5  | 27.1  | 26.7  | 26.7  |
| 60°    | 28.6  | 29.0  | 28.6  | 28.2  | 28.2  | 28.6  | 28.2  | 27.9  | 27.1  | 26.0  | 26.4  |
| 62.5°  | 28.2  | 28.2  | 27.9  | 27.9  | 27.5  | 27.9  | 27.5  | 26.7  | 26.0  | 25.3  | 24.9  |
| 65°    | 27.5  | 27.5  | 27.1  | 27.1  | 26.7  | 26.7  | 26.7  | 26.0  | 25.3  | 24.5  | 24.5  |
| 67.5°  | 27.1  | 26.7  | 26.4  | 26.4  | 26.0  | 26.0  | 26.0  | 25.3  | 24.1  | 23.8  | 23.4  |
| 70°    | 25.6  | 25.3  | 25.3  | 24.9  | 24.5  | 24.9  | 25.3  | 24.1  | 23.0  | 22.3  | 21.9  |
| 72.5°  | 24.1  | 23.8  | 23.8  | 23.4  | 23.4  | 23.8  | 24.1  | 23.0  | 21.5  | 20.8  | 20.4  |
| 75°    | 21.9  | 21.5  | 21.5  | 21.5  | 21.5  | 22.3  | 22.3  | 21.2  | 20.1  | 18.9  | 18.2  |
| 77.5°  | 18.9  | 19.3  | 19.3  | 19.3  | 19.3  | 20.1  | 20.1  | 19.3  | 18.2  | 17.5  | 16.3  |
| 80°    | 16.3  | 16.3  | 16.7  | 16.7  | 17.1  | 17.1  | 16.7  | 16.3  | 16.0  | 15.2  | 13.7  |
| 82.5°  | 13.7  | 13.7  | 13.7  | 13.7  | 13.7  | 13.4  | 12.6  | 13.4  | 13.4  | 12.6  | 11.5  |
| 85°    | 10.8  | 10.8  | 10.8  | 11.1  | 11.1  | 10.0  | 8.9   | 8.9   | 10.0  | 9.7   | 8.9   |
| 87.5°  | 6.3   | 6.3   | 6.7   | 7.8   | 7.1   | 6.7   | 5.6   | 5.9   | 5.6   | 6.3   | 5.2   |
| 90°    | 10.5  | 10.1  | 10.1  | 8.4   | 7.7   | 7.0   | 7.0   | 7.5   | 8.0   | 8.0   | 8.0   |
| 92.5°  | 6.0   | 6.5   | 7.0   | 7.0   | 7.0   | 6.5   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   |
| 95°    | 7.0   | 7.5   | 8.0   | 7.5   | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   |
| 97.5°  | 9.0   | 9.5   | 10.0  | 11.0  | 12.0  | 10.5  | 9.0   | 9.0   | 9.0   | 8.5   | 8.0   |
| 100°   | 23.0  | 24.5  | 26.0  | 27.5  | 29.0  | 25.0  | 21.0  | 16.5  | 12.0  | 11.0  | 10.0  |
| 102.5° | 42.0  | 44.5  | 47.0  | 48.5  | 50.0  | 45.0  | 40.0  | 33.5  | 27.0  | 22.5  | 18.0  |
| 105°   | 65.0  | 67.5  | 70.0  | 71.0  | 72.0  | 67.5  | 63.0  | 55.5  | 48.0  | 42.0  | 36.0  |
| 107.5° | 90.0  | 92.0  | 94.0  | 94.5  | 95.0  | 91.5  | 88.0  | 80.5  | 73.0  | 65.5  | 58.0  |



REPORT NUMBER: P227346  
 CATALOG NUMBER: IST-AF-450-LED-E1-SLR-8030-ULG

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|        | 105°  | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  |        |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 110°   | 119.0 | 120.0 | 121.0 | 120.5 | 120.0 | 117.0 | 114.0 | 108.0 | 102.0 | 94.5  | 87.0  | 0°     |
| 112.5° | 149.0 | 149.5 | 150.0 | 149.0 | 148.0 | 145.5 | 143.0 | 138.5 | 134.0 | 127.5 | 121.0 | 2.5°   |
| 115°   | 179.0 | 180.5 | 182.0 | 180.5 | 179.0 | 176.5 | 174.0 | 171.0 | 168.0 | 163.5 | 159.0 | 5°     |
| 117.5° | 210.0 | 212.5 | 215.0 | 213.0 | 211.0 | 208.0 | 205.0 | 203.5 | 202.0 | 199.5 | 197.0 | 7.5°   |
| 120°   | 245.0 | 247.5 | 250.0 | 248.0 | 246.0 | 244.5 | 243.0 | 240.0 | 237.0 | 235.0 | 233.0 | 10°    |
| 122.5° | 278.0 | 280.5 | 283.0 | 281.0 | 279.0 | 278.0 | 277.0 | 274.0 | 271.0 | 269.0 | 267.0 | 12.5°  |
| 125°   | 310.0 | 312.5 | 315.0 | 314.0 | 313.0 | 311.5 | 310.0 | 307.5 | 305.0 | 302.0 | 299.0 | 15°    |
| 127.5° | 346.0 | 346.0 | 346.0 | 345.5 | 345.0 | 342.5 | 340.0 | 339.5 | 339.0 | 336.0 | 333.0 | 17.5°  |
| 130°   | 381.0 | 381.0 | 381.0 | 379.0 | 377.0 | 374.5 | 372.0 | 371.0 | 370.0 | 368.0 | 366.0 | 20°    |
| 132.5° | 414.0 | 415.0 | 416.0 | 413.5 | 411.0 | 408.0 | 405.0 | 404.5 | 404.0 | 402.5 | 401.0 | 22.5°  |
| 135°   | 447.0 | 447.5 | 448.0 | 445.5 | 443.0 | 440.0 | 437.0 | 436.0 | 435.0 | 433.5 | 432.0 | 25°    |
| 137.5° | 476.0 | 475.5 | 475.0 | 474.0 | 473.0 | 470.5 | 468.0 | 466.0 | 464.0 | 462.0 | 460.0 | 27.5°  |
| 140°   | 504.0 | 503.0 | 502.0 | 501.0 | 500.0 | 498.5 | 497.0 | 494.0 | 491.0 | 490.0 | 489.0 | 30°    |
| 142.5° | 533.0 | 533.0 | 533.0 | 530.0 | 527.0 | 526.0 | 525.0 | 523.0 | 521.0 | 519.5 | 518.0 | 32.5°  |
| 145°   | 561.0 | 561.5 | 562.0 | 559.0 | 556.0 | 553.5 | 551.0 | 550.5 | 550.0 | 548.5 | 547.0 | 35°    |
| 147.5° | 586.0 | 585.5 | 585.0 | 582.5 | 580.0 | 577.5 | 575.0 | 574.5 | 574.0 | 574.0 | 574.0 | 37.5°  |
| 150°   | 603.0 | 601.5 | 600.0 | 598.5 | 597.0 | 595.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 40°    |
| 152.5° | 618.0 | 616.0 | 614.0 | 612.5 | 611.0 | 610.5 | 610.0 | 610.0 | 610.0 | 609.5 | 609.0 | 42.5°  |
| 155°   | 636.0 | 633.5 | 631.0 | 628.5 | 626.0 | 627.0 | 628.0 | 629.0 | 630.0 | 628.5 | 627.0 | 45°    |
| 157.5° | 650.0 | 649.0 | 648.0 | 646.0 | 644.0 | 644.5 | 645.0 | 645.5 | 646.0 | 645.0 | 644.0 | 47.5°  |
| 160°   | 661.0 | 662.5 | 664.0 | 661.0 | 658.0 | 656.5 | 655.0 | 655.0 | 655.0 | 655.5 | 656.0 | 50°    |
| 162.5° | 670.0 | 670.5 | 671.0 | 669.0 | 667.0 | 665.0 | 663.0 | 662.0 | 661.0 | 663.0 | 665.0 | 52.5°  |
| 165°   | 680.0 | 678.5 | 677.0 | 674.5 | 672.0 | 672.5 | 673.0 | 673.0 | 673.0 | 674.5 | 676.0 | 55°    |
| 167.5° | 688.0 | 686.0 | 684.0 | 681.0 | 678.0 | 681.5 | 685.0 | 686.5 | 688.0 | 687.0 | 686.0 | 57.5°  |
| 170°   | 694.0 | 691.5 | 689.0 | 687.5 | 686.0 | 688.5 | 691.0 | 692.0 | 693.0 | 692.5 | 692.0 | 59°    |
| 172.5° | 694.0 | 693.0 | 692.0 | 690.5 | 689.0 | 689.5 | 690.0 | 690.0 | 690.0 | 691.5 | 693.0 | 60°    |
| 175°   | 696.0 | 695.5 | 695.0 | 692.5 | 690.0 | 690.0 | 690.0 | 690.5 | 691.0 | 693.0 | 695.0 | 62.5°  |
| 177.5° | 701.0 | 700.0 | 699.0 | 696.5 | 694.0 | 694.5 | 695.0 | 696.0 | 697.0 | 698.0 | 699.0 | 65°    |
| 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 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: P227346  
 NUMBER: IST-AF-450-LED-E1-SLR-8030-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION:**

| 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 110°   | 160°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 110°   | 80.5  |
| 633.8 | 635.3 | 638.6 | 637.5 | 649.8 | 646.0 | 654.6 | 666.1 | 676.9 | 671.7 | 673.2 | 112.5° | 113.5 |
| 521.2 | 523.1 | 509.0 | 517.5 | 530.1 | 524.9 | 523.1 | 540.2 | 536.1 | 555.4 | 539.4 | 115°   | 153.0 |
| 386.0 | 381.5 | 374.8 | 371.5 | 362.2 | 362.2 | 379.7 | 387.5 | 386.4 | 399.7 | 413.5 | 117.5° | 193.0 |
| 271.2 | 266.0 | 257.8 | 255.6 | 264.9 | 269.3 | 277.1 | 284.9 | 295.3 | 310.6 | 319.5 | 120°   | 229.5 |
| 199.1 | 197.3 | 199.1 | 204.7 | 213.2 | 219.6 | 231.4 | 245.2 | 256.7 | 269.0 | 280.9 | 122.5° | 264.0 |
| 150.5 | 154.2 | 159.0 | 162.7 | 169.4 | 181.3 | 187.6 | 202.8 | 213.2 | 224.0 | 237.8 | 125°   | 297.5 |
| 117.0 | 119.3 | 120.4 | 121.9 | 127.4 | 136.0 | 136.0 | 151.6 | 165.3 | 179.4 | 191.0 | 127.5° | 331.0 |
| 89.2  | 89.2  | 85.4  | 87.7  | 88.4  | 87.7  | 92.1  | 101.0 | 110.0 | 119.3 | 137.5 | 130°   | 364.0 |
| 74.7  | 72.4  | 71.3  | 71.0  | 71.3  | 72.8  | 75.4  | 78.8  | 80.2  | 84.3  | 91.4  | 132.5° | 397.0 |
| 66.1  | 65.8  | 64.6  | 64.6  | 65.4  | 65.8  | 68.4  | 71.3  | 72.1  | 73.2  | 75.8  | 135°   | 429.0 |
| 58.3  | 59.1  | 60.2  | 59.8  | 60.2  | 60.9  | 62.8  | 65.4  | 66.9  | 67.2  | 69.1  | 137.5° | 459.5 |
| 52.8  | 53.5  | 53.9  | 55.0  | 55.0  | 55.4  | 56.8  | 59.4  | 60.6  | 62.4  | 64.3  | 140°   | 488.0 |
| 49.0  | 49.4  | 49.8  | 49.4  | 49.8  | 49.8  | 51.6  | 54.2  | 55.7  | 56.8  | 58.0  | 142.5° | 517.5 |
| 45.0  | 44.6  | 44.6  | 44.6  | 43.5  | 43.1  | 43.8  | 46.4  | 46.8  | 47.9  | 50.5  | 145°   | 545.5 |
| 40.1  | 39.0  | 38.3  | 38.3  | 38.3  | 38.6  | 40.5  | 43.1  | 43.5  | 44.6  | 46.8  | 147.5° | 572.5 |
| 35.7  | 35.3  | 35.3  | 35.7  | 36.0  | 36.8  | 38.3  | 40.9  | 41.2  | 42.4  | 44.2  | 150°   | 593.0 |
| 33.4  | 33.4  | 33.4  | 33.8  | 34.2  | 34.6  | 36.4  | 39.0  | 39.8  | 40.9  | 43.1  | 152.5° | 608.5 |
| 31.9  | 32.3  | 31.9  | 31.9  | 32.3  | 33.1  | 34.9  | 37.9  | 39.0  | 40.1  | 42.4  | 155°   | 626.0 |
| 30.8  | 30.8  | 30.8  | 31.2  | 31.2  | 31.9  | 34.2  | 37.2  | 37.9  | 39.4  | 42.7  | 157.5° | 643.5 |
| 29.3  | 30.1  | 29.7  | 30.1  | 30.5  | 31.2  | 33.4  | 36.4  | 37.5  | 39.8  | 43.5  | 160°   | 657.5 |
| 28.6  | 28.6  | 28.6  | 29.0  | 29.7  | 30.1  | 31.9  | 35.3  | 36.8  | 39.8  | 45.7  | 162.5° | 667.0 |
| 28.2  | 27.5  | 27.5  | 27.9  | 28.6  | 29.3  | 31.2  | 34.6  | 36.4  | 39.4  | 45.3  | 165°   | 676.0 |
| 27.9  | 26.7  | 26.4  | 26.7  | 27.5  | 27.9  | 30.1  | 33.4  | 36.0  | 38.3  | 43.8  | 167.5° | 685.0 |
| 26.7  | 26.0  | 25.6  | 26.0  | 26.7  | 27.5  | 29.3  | 32.7  | 34.6  | 37.5  | 42.0  | 170°   | 692.0 |
| 26.4  | 25.3  | 25.3  | 25.6  | 26.4  | 26.7  | 28.6  | 31.9  | 33.8  | 37.9  | 43.1  | 172.5° | 694.0 |
| 24.9  | 24.5  | 24.5  | 24.9  | 24.9  | 25.6  | 27.9  | 31.2  | 32.7  | 38.6  | 36.0  | 175°   | 696.0 |
| 23.8  | 23.8  | 23.8  | 23.8  | 24.1  | 24.5  | 27.1  | 30.5  | 31.2  | 33.4  | 30.8  | 177.5° | 699.5 |
| 23.0  | 23.0  | 23.0  | 23.0  | 23.0  | 23.8  | 26.0  | 29.3  | 29.7  | 29.3  | 28.2  | 180°   | 700.0 |
| 21.5  | 21.5  | 21.5  | 21.5  | 21.9  | 22.3  | 24.5  | 27.5  | 27.5  | 26.7  | 26.7  |        |       |
| 20.4  | 20.1  | 20.1  | 20.1  | 20.1  | 20.4  | 22.7  | 25.6  | 25.3  | 24.9  | 24.9  |        |       |
| 18.2  | 18.2  | 18.2  | 18.2  | 18.2  | 18.2  | 20.4  | 23.4  | 23.0  | 22.7  | 22.3  |        |       |
| 16.0  | 16.0  | 16.3  | 16.0  | 15.6  | 15.2  | 17.5  | 20.8  | 20.8  | 20.4  | 20.1  |        |       |
| 13.7  | 13.4  | 13.7  | 13.4  | 12.6  | 12.6  | 14.5  | 17.5  | 17.8  | 17.5  | 16.7  |        |       |
| 11.1  | 10.8  | 10.8  | 10.8  | 9.3   | 9.3   | 11.1  | 14.1  | 14.1  | 13.7  | 13.0  |        |       |
| 8.5   | 8.2   | 7.8   | 7.4   | 6.3   | 6.3   | 7.8   | 10.4  | 10.8  | 9.3   | 8.9   |        |       |
| 4.5   | 4.5   | 4.5   | 3.3   | 3.0   | 2.6   | 4.1   | 6.3   | 6.3   | 5.2   | 4.5   |        |       |
| 7.5   | 7.0   | 6.0   | 5.0   | 5.0   | 5.0   | 6.0   | 7.4   | 7.5   | 8.0   | 8.0   |        |       |
| 5.5   | 5.0   | 4.5   | 4.0   | 4.0   | 4.0   | 4.5   | 5.0   | 5.5   | 6.0   | 6.0   |        |       |
| 6.5   | 6.0   | 5.5   | 5.0   | 5.0   | 5.0   | 5.5   | 6.0   | 6.5   | 7.0   | 7.0   |        |       |
| 8.0   | 8.0   | 7.5   | 7.0   | 7.0   | 7.0   | 7.5   | 8.0   | 8.0   | 8.0   | 8.5   |        |       |
| 9.5   | 9.0   | 8.5   | 8.0   | 8.0   | 8.0   | 8.5   | 9.0   | 9.5   | 10.0  | 11.0  |        |       |
| 15.5  | 13.0  | 12.0  | 11.0  | 11.0  | 11.0  | 12.0  | 13.0  | 15.5  | 18.0  | 22.5  |        |       |
| 31.5  | 27.0  | 24.5  | 22.0  | 21.0  | 22.0  | 24.5  | 27.0  | 31.5  | 36.0  | 42.0  |        |       |
| 53.5  | 49.0  | 45.5  | 42.0  | 41.0  | 42.0  | 45.5  | 49.0  | 53.5  | 58.0  | 65.5  |        |       |

227346  
 IST-AF-450-LED-E1-SLR-8030-ULG

REPORT NUMBER: P227346  
 CATALOG NUMBER: IST-AF-450

**TION (continued):**

**CANDELA DISTRIBUTION (con**

| 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  |        | 215°  | 220°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 74.0  | 71.0  | 68.0  | 66.0  | 68.0  | 71.0  | 74.0  | 80.5  | 87.0  | 94.5  | 0°     | 729.3 | 729.3 |
| 106.0 | 102.5 | 99.0  | 99.0  | 99.0  | 102.5 | 106.0 | 113.5 | 121.0 | 127.5 | 2.5°   | 682.5 | 685.8 |
| 147.0 | 143.0 | 139.0 | 140.0 | 139.0 | 143.0 | 147.0 | 153.0 | 159.0 | 163.5 | 5°     | 551.3 | 564.3 |
| 189.0 | 186.5 | 184.0 | 184.0 | 184.0 | 186.5 | 189.0 | 193.0 | 197.0 | 199.5 | 7.5°   | 416.8 | 434.3 |
| 226.0 | 224.5 | 223.0 | 225.0 | 223.0 | 224.5 | 226.0 | 229.5 | 233.0 | 235.0 | 10°    | 334.0 | 345.9 |
| 261.0 | 260.5 | 260.0 | 263.0 | 260.0 | 260.5 | 261.0 | 264.0 | 267.0 | 269.0 | 12.5°  | 293.1 | 310.2 |
| 296.0 | 295.0 | 294.0 | 298.0 | 294.0 | 295.0 | 296.0 | 297.5 | 299.0 | 302.0 | 15°    | 251.5 | 270.1 |
| 329.0 | 329.0 | 329.0 | 330.0 | 329.0 | 329.0 | 329.0 | 331.0 | 333.0 | 336.0 | 17.5°  | 206.2 | 228.8 |
| 362.0 | 361.5 | 361.0 | 363.0 | 361.0 | 361.5 | 362.0 | 364.0 | 366.0 | 368.0 | 20°    | 157.5 | 179.8 |
| 393.0 | 393.5 | 394.0 | 396.0 | 394.0 | 393.5 | 393.0 | 397.0 | 401.0 | 402.5 | 22.5°  | 110.7 | 129.7 |
| 426.0 | 426.0 | 426.0 | 429.0 | 426.0 | 426.0 | 426.0 | 429.0 | 432.0 | 433.5 | 25°    | 80.6  | 89.2  |
| 459.0 | 458.0 | 457.0 | 460.0 | 457.0 | 458.0 | 459.0 | 459.5 | 460.0 | 462.0 | 27.5°  | 71.7  | 75.0  |
| 487.0 | 486.0 | 485.0 | 488.0 | 485.0 | 486.0 | 487.0 | 488.0 | 489.0 | 490.0 | 30°    | 67.2  | 69.5  |
| 517.0 | 516.0 | 515.0 | 518.0 | 515.0 | 516.0 | 517.0 | 517.5 | 518.0 | 519.5 | 32.5°  | 60.6  | 62.8  |
| 544.0 | 545.0 | 546.0 | 550.0 | 546.0 | 545.0 | 544.0 | 545.5 | 547.0 | 548.5 | 35°    | 53.1  | 56.1  |
| 571.0 | 571.5 | 572.0 | 575.0 | 572.0 | 571.5 | 571.0 | 572.5 | 574.0 | 574.0 | 37.5°  | 49.4  | 51.6  |
| 593.0 | 592.5 | 592.0 | 595.0 | 592.0 | 592.5 | 593.0 | 593.0 | 593.0 | 593.0 | 40°    | 47.2  | 47.6  |
| 608.0 | 608.0 | 608.0 | 611.0 | 608.0 | 608.0 | 608.0 | 608.5 | 609.0 | 609.5 | 42.5°  | 45.3  | 45.3  |
| 625.0 | 625.0 | 625.0 | 629.0 | 625.0 | 625.0 | 625.0 | 626.0 | 627.0 | 628.5 | 45°    | 44.2  | 45.3  |
| 643.0 | 643.0 | 643.0 | 646.0 | 643.0 | 643.0 | 643.0 | 643.5 | 644.0 | 645.0 | 47.5°  | 45.0  | 49.8  |
| 659.0 | 659.5 | 660.0 | 663.0 | 660.0 | 659.5 | 659.0 | 657.5 | 656.0 | 655.5 | 50°    | 50.5  | 49.0  |
| 669.0 | 669.0 | 669.0 | 673.0 | 669.0 | 669.0 | 669.0 | 667.0 | 665.0 | 663.0 | 52.5°  | 51.6  | 46.1  |
| 676.0 | 677.0 | 678.0 | 681.0 | 678.0 | 677.0 | 676.0 | 676.0 | 676.0 | 674.5 | 55°    | 47.2  | 44.2  |
| 684.0 | 685.5 | 687.0 | 690.0 | 687.0 | 685.5 | 684.0 | 685.0 | 686.0 | 687.0 | 57.5°  | 42.4  | 38.6  |
| 692.0 | 693.5 | 695.0 | 698.0 | 695.0 | 693.5 | 692.0 | 692.0 | 692.0 | 692.5 | 59°    | 37.9  | 35.7  |
| 695.0 | 696.0 | 697.0 | 699.0 | 697.0 | 696.0 | 695.0 | 694.0 | 693.0 | 691.5 | 60°    | 35.3  | 34.6  |
| 697.0 | 697.5 | 698.0 | 700.0 | 698.0 | 697.5 | 697.0 | 696.0 | 695.0 | 693.0 | 62.5°  | 32.3  | 33.1  |
| 700.0 | 702.5 | 705.0 | 707.0 | 705.0 | 702.5 | 700.0 | 699.5 | 699.0 | 698.0 | 65°    | 30.1  | 31.6  |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 67.5°  | 29.0  | 30.1  |
|       |       |       |       |       |       |       |       |       |       | 70°    | 27.1  | 27.9  |
|       |       |       |       |       |       |       |       |       |       | 72.5°  | 25.3  | 25.6  |
|       |       |       |       |       |       |       |       |       |       | 75°    | 22.7  | 23.0  |
|       |       |       |       |       |       |       |       |       |       | 77.5°  | 20.1  | 20.1  |
|       |       |       |       |       |       |       |       |       |       | 80°    | 16.3  | 16.3  |
|       |       |       |       |       |       |       |       |       |       | 82.5°  | 12.6  | 12.3  |
|       |       |       |       |       |       |       |       |       |       | 85°    | 8.2   | 7.8   |
|       |       |       |       |       |       |       |       |       |       | 87.5°  | 3.7   | 3.0   |
|       |       |       |       |       |       |       |       |       |       | 90°    | 8.0   | 7.5   |
|       |       |       |       |       |       |       |       |       |       | 92.5°  | 6.0   | 6.0   |
|       |       |       |       |       |       |       |       |       |       | 95°    | 7.0   | 7.0   |
|       |       |       |       |       |       |       |       |       |       | 97.5°  | 9.0   | 9.0   |
|       |       |       |       |       |       |       |       |       |       | 100°   | 12.0  | 16.5  |
|       |       |       |       |       |       |       |       |       |       | 102.5° | 27.0  | 33.5  |
|       |       |       |       |       |       |       |       |       |       | 105°   | 48.0  | 55.5  |
|       |       |       |       |       |       |       |       |       |       | 107.5° | 73.0  | 80.5  |

REPORT NUMBER: P227346

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

O-LED-E1-SLR-8030-ULG

**tinued):**

**CANDELA DISTRIBUTION (continued):**

| 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°   | 265°   |        | 215°  | 220°  | 225°  |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|
| 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3  | 729.3  | 110°   | 102.0 | 108.0 | 114.0 |
| 702.5 | 712.9 | 721.1 | 719.6 | 737.1 | 747.5 | 749.0 | 759.7  | 770.1  | 112.5° | 134.0 | 138.5 | 143.0 |
| 574.7 | 589.2 | 603.3 | 613.7 | 641.2 | 663.9 | 681.3 | 699.9  | 721.8  | 115°   | 168.0 | 171.0 | 174.0 |
| 458.1 | 470.3 | 493.4 | 510.1 | 539.1 | 565.4 | 591.1 | 620.4  | 645.3  | 117.5° | 202.0 | 203.5 | 205.0 |
| 358.9 | 374.5 | 396.0 | 427.2 | 453.2 | 483.3 | 515.7 | 543.5  | 585.1  | 120°   | 237.0 | 240.0 | 243.0 |
| 322.5 | 332.1 | 350.0 | 364.8 | 397.1 | 429.1 | 465.5 | 503.8  | 542.0  | 122.5° | 271.0 | 274.0 | 277.0 |
| 284.9 | 302.0 | 318.8 | 340.3 | 368.5 | 403.5 | 442.8 | 484.1  | 527.2  | 125°   | 305.0 | 307.5 | 310.0 |
| 248.5 | 271.2 | 289.4 | 312.8 | 344.4 | 388.6 | 439.9 | 491.1  | 541.7  | 127.5° | 339.0 | 339.5 | 340.0 |
| 204.0 | 225.1 | 257.1 | 280.9 | 322.1 | 377.4 | 443.2 | 514.2  | 582.5  | 130°   | 370.0 | 371.0 | 372.0 |
| 160.5 | 183.2 | 219.6 | 254.9 | 300.2 | 371.5 | 456.6 | 552.1  | 643.4  | 132.5° | 404.0 | 404.5 | 405.0 |
| 114.8 | 145.6 | 181.7 | 226.2 | 281.2 | 367.8 | 474.8 | 598.9  | 721.8  | 135°   | 435.0 | 436.0 | 437.0 |
| 85.8  | 107.4 | 151.2 | 199.9 | 260.1 | 361.1 | 494.1 | 642.3  | 775.3  | 137.5° | 464.0 | 466.0 | 468.0 |
| 76.5  | 91.8  | 120.4 | 171.6 | 234.0 | 348.1 | 508.6 | 683.6  | 824.0  | 140°   | 491.0 | 494.0 | 497.0 |
| 66.9  | 78.8  | 101.4 | 144.9 | 210.6 | 328.0 | 514.9 | 705.5  | 857.8  | 142.5° | 521.0 | 523.0 | 525.0 |
| 58.7  | 69.8  | 92.9  | 134.5 | 198.8 | 305.4 | 513.8 | 727.4  | 900.2  | 145°   | 550.0 | 550.5 | 551.0 |
| 53.5  | 63.2  | 89.2  | 131.9 | 189.5 | 284.6 | 514.9 | 762.7  | 962.9  | 147.5° | 574.0 | 574.5 | 575.0 |
| 49.4  | 60.6  | 86.2  | 126.3 | 185.0 | 273.1 | 519.4 | 793.9  | 1016.8 | 150°   | 593.0 | 593.0 | 593.0 |
| 49.4  | 59.8  | 78.8  | 118.5 | 182.8 | 274.2 | 521.2 | 818.1  | 1056.9 | 152.5° | 610.0 | 610.0 | 610.0 |
| 52.0  | 56.1  | 73.2  | 114.1 | 184.3 | 282.3 | 519.0 | 842.6  | 1095.9 | 155°   | 630.0 | 629.0 | 628.0 |
| 49.4  | 52.4  | 69.5  | 113.3 | 184.3 | 288.3 | 525.7 | 873.0  | 1147.2 | 157.5° | 646.0 | 645.5 | 645.0 |
| 46.8  | 48.7  | 68.4  | 112.2 | 180.6 | 293.9 | 553.2 | 929.9  | 1214.1 | 160°   | 655.0 | 655.0 | 655.0 |
| 43.5  | 45.7  | 66.9  | 110.3 | 176.5 | 300.9 | 601.8 | 1025.4 | 1324.8 | 162.5° | 661.0 | 662.0 | 663.0 |
| 39.4  | 43.8  | 64.6  | 107.4 | 173.9 | 313.6 | 651.6 | 1121.9 | 1456.7 | 165°   | 673.0 | 673.0 | 673.0 |
| 37.9  | 42.0  | 59.4  | 100.3 | 171.3 | 327.3 | 704.7 | 1214.5 | 1575.2 | 167.5° | 688.0 | 686.5 | 685.0 |
| 36.8  | 40.5  | 55.0  | 95.1  | 169.0 | 334.0 | 720.7 | 1249.7 | 1620.9 | 170°   | 693.0 | 692.0 | 691.0 |
| 36.0  | 39.8  | 52.4  | 90.6  | 166.4 | 334.4 | 732.2 | 1263.1 | 1627.6 | 172.5° | 690.0 | 690.0 | 690.0 |
| 34.9  | 38.3  | 47.2  | 81.4  | 158.3 | 334.0 | 733.4 | 1271.7 | 1608.2 | 175°   | 691.0 | 690.5 | 690.0 |
| 33.1  | 36.8  | 47.6  | 76.5  | 143.4 | 318.4 | 687.3 | 1230.4 | 1531.3 | 177.5° | 697.0 | 696.0 | 695.0 |
| 31.6  | 35.7  | 50.2  | 77.6  | 127.8 | 278.3 | 601.1 | 1102.3 | 1366.8 | 180°   | 700.0 | 700.0 | 700.0 |
| 29.3  | 34.9  | 52.4  | 80.2  | 123.3 | 231.1 | 454.7 | 900.2  | 1144.6 |        |       |       |       |
| 27.1  | 34.6  | 54.2  | 82.1  | 118.5 | 190.2 | 315.0 | 638.2  | 856.7  |        |       |       |       |
| 24.5  | 31.6  | 49.4  | 69.8  | 98.1  | 138.2 | 202.8 | 417.6  | 590.7  |        |       |       |       |
| 21.2  | 25.3  | 36.0  | 49.0  | 72.1  | 96.6  | 120.0 | 252.3  | 386.4  |        |       |       |       |
| 17.5  | 18.9  | 25.6  | 31.6  | 47.9  | 57.2  | 66.5  | 142.3  | 270.1  |        |       |       |       |
| 13.0  | 13.4  | 17.5  | 20.1  | 27.1  | 31.6  | 39.8  | 87.3   | 218.8  |        |       |       |       |
| 7.4   | 8.5   | 11.9  | 13.4  | 16.3  | 20.1  | 26.0  | 55.7   | 171.6  |        |       |       |       |
| 3.0   | 3.7   | 7.1   | 7.8   | 8.9   | 11.1  | 14.5  | 32.3   | 53.5   |        |       |       |       |
| 7.0   | 7.0   | 7.0   | 8.0   | 9.0   | 9.0   | 9.0   | 8.0    | 7.0    |        |       |       |       |
| 6.0   | 6.5   | 7.0   | 7.0   | 7.0   | 6.5   | 6.0   | 6.0    | 6.0    |        |       |       |       |
| 7.0   | 7.0   | 7.0   | 7.5   | 8.0   | 7.5   | 7.0   | 7.0    | 7.0    |        |       |       |       |
| 9.0   | 10.5  | 12.0  | 11.0  | 10.0  | 9.5   | 9.0   | 8.5    | 8.0    |        |       |       |       |
| 21.0  | 25.0  | 29.0  | 27.5  | 26.0  | 24.5  | 23.0  | 21.0   | 19.0   |        |       |       |       |
| 40.0  | 45.0  | 50.0  | 48.5  | 47.0  | 44.5  | 42.0  | 40.5   | 39.0   |        |       |       |       |
| 63.0  | 67.5  | 72.0  | 71.0  | 70.0  | 67.5  | 65.0  | 63.0   | 61.0   |        |       |       |       |
| 88.0  | 91.5  | 95.0  | 94.5  | 94.0  | 92.0  | 90.0  | 88.5   | 87.0   |        |       |       |       |



REPORT NUMBER: P227346

CATALOG NUMBER: IST-AF-450-LED-E1-SLR-8030-L

SLR-8030-ULG

**CANDELA DISTRIBUTION (continued):**

| 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  |        | 270°   | 275°   | 280°   | 285°   |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 117.0 | 120.0 | 120.5 | 121.0 | 120.0 | 119.0 | 117.5 | 116.0 | 0°     | 729.3  | 729.3  | 729.3  | 729.3  |
| 145.5 | 148.0 | 149.0 | 150.0 | 149.5 | 149.0 | 148.0 | 147.0 | 2.5°   | 780.5  | 788.3  | 795.0  | 800.2  |
| 176.5 | 179.0 | 180.5 | 182.0 | 180.5 | 179.0 | 178.0 | 177.0 | 5°     | 745.2  | 763.4  | 785.4  | 803.9  |
| 208.0 | 211.0 | 213.0 | 215.0 | 212.5 | 210.0 | 209.0 | 208.0 | 7.5°   | 682.5  | 705.5  | 741.2  | 763.1  |
| 244.5 | 246.0 | 248.0 | 250.0 | 247.5 | 245.0 | 244.0 | 243.0 | 10°    | 623.0  | 656.8  | 695.8  | 727.4  |
| 278.0 | 279.0 | 281.0 | 283.0 | 280.5 | 278.0 | 277.0 | 276.0 | 12.5°  | 582.5  | 624.5  | 661.7  | 696.9  |
| 311.5 | 313.0 | 314.0 | 315.0 | 312.5 | 310.0 | 310.0 | 310.0 | 15°    | 571.4  | 614.1  | 647.5  | 679.9  |
| 342.5 | 345.0 | 345.5 | 346.0 | 346.0 | 346.0 | 345.5 | 345.0 | 17.5°  | 593.7  | 636.4  | 665.0  | 684.7  |
| 374.5 | 377.0 | 379.0 | 381.0 | 381.0 | 381.0 | 380.0 | 379.0 | 20°    | 646.0  | 691.7  | 709.9  | 708.5  |
| 408.0 | 411.0 | 413.5 | 416.0 | 415.0 | 414.0 | 414.0 | 414.0 | 22.5°  | 717.7  | 765.7  | 765.7  | 750.8  |
| 440.0 | 443.0 | 445.5 | 448.0 | 447.5 | 447.0 | 448.5 | 450.0 | 25°    | 812.5  | 847.0  | 828.1  | 799.9  |
| 470.5 | 473.0 | 474.0 | 475.0 | 475.5 | 476.0 | 478.5 | 481.0 | 27.5°  | 879.7  | 912.0  | 879.0  | 832.5  |
| 498.5 | 500.0 | 501.0 | 502.0 | 503.0 | 504.0 | 506.5 | 509.0 | 30°    | 935.5  | 959.2  | 917.2  | 861.2  |
| 526.0 | 527.0 | 530.0 | 533.0 | 533.0 | 533.0 | 533.5 | 534.0 | 32.5°  | 984.5  | 1002.0 | 946.6  | 891.2  |
| 553.5 | 556.0 | 559.0 | 562.0 | 561.5 | 561.0 | 559.5 | 558.0 | 35°    | 1043.2 | 1049.5 | 977.1  | 918.0  |
| 577.5 | 580.0 | 582.5 | 585.0 | 585.5 | 586.0 | 584.5 | 583.0 | 37.5°  | 1108.2 | 1113.4 | 1020.9 | 947.3  |
| 595.0 | 597.0 | 598.5 | 600.0 | 601.5 | 603.0 | 604.5 | 606.0 | 40°    | 1184.7 | 1166.2 | 1053.2 | 974.5  |
| 610.5 | 611.0 | 612.5 | 614.0 | 616.0 | 618.0 | 620.5 | 623.0 | 42.5°  | 1231.9 | 1201.4 | 1076.6 | 988.6  |
| 627.0 | 626.0 | 628.5 | 631.0 | 633.5 | 636.0 | 637.0 | 638.0 | 45°    | 1269.1 | 1227.5 | 1087.4 | 996.8  |
| 644.5 | 644.0 | 646.0 | 648.0 | 649.0 | 650.0 | 650.0 | 650.0 | 47.5°  | 1314.8 | 1265.7 | 1106.3 | 1011.6 |
| 656.5 | 658.0 | 661.0 | 664.0 | 662.5 | 661.0 | 660.5 | 660.0 | 50°    | 1374.9 | 1318.8 | 1154.3 | 1053.6 |
| 665.0 | 667.0 | 669.0 | 671.0 | 670.5 | 670.0 | 669.0 | 668.0 | 52.5°  | 1498.3 | 1428.8 | 1240.5 | 1126.8 |
| 672.5 | 672.0 | 674.5 | 677.0 | 678.5 | 680.0 | 679.0 | 678.0 | 55°    | 1640.2 | 1574.4 | 1378.3 | 1247.5 |
| 681.5 | 678.0 | 681.0 | 684.0 | 686.0 | 688.0 | 688.0 | 688.0 | 57.5°  | 1753.9 | 1709.7 | 1501.3 | 1356.7 |
| 688.5 | 686.0 | 687.5 | 689.0 | 691.5 | 694.0 | 695.0 | 696.0 | 59°    | 1795.9 | 1776.9 | 1588.2 | 1449.2 |
| 689.5 | 689.0 | 690.5 | 692.0 | 693.0 | 694.0 | 695.0 | 696.0 | 60°    | 1811.5 | 1827.8 | 1634.3 | 1505.7 |
| 690.0 | 690.0 | 692.5 | 695.0 | 695.5 | 696.0 | 695.0 | 694.0 | 62.5°  | 1822.2 | 1893.2 | 1784.0 | 1674.4 |
| 694.5 | 694.0 | 696.5 | 699.0 | 700.0 | 701.0 | 699.5 | 698.0 | 65°    | 1799.9 | 1904.0 | 1844.5 | 1777.3 |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 67.5°  | 1703.0 | 1827.4 | 1815.9 | 1756.9 |
|       |       |       |       |       |       |       |       | 70°    | 1504.6 | 1643.2 | 1683.3 | 1599.3 |
|       |       |       |       |       |       |       |       | 72.5°  | 1132.0 | 1304.0 | 1522.8 | 1391.3 |
|       |       |       |       |       |       |       |       | 75°    | 737.4  | 896.4  | 1300.3 | 1191.8 |
|       |       |       |       |       |       |       |       | 77.5°  | 461.8  | 559.5  | 927.7  | 834.8  |
|       |       |       |       |       |       |       |       | 80°    | 307.2  | 359.6  | 588.8  | 536.1  |
|       |       |       |       |       |       |       |       | 82.5°  | 231.1  | 254.9  | 404.9  | 380.8  |
|       |       |       |       |       |       |       |       | 85°    | 121.9  | 155.3  | 315.0  | 399.4  |
|       |       |       |       |       |       |       |       | 87.5°  | 45.7   | 50.9   | 237.0  | 357.0  |
|       |       |       |       |       |       |       |       | 90°    | 7.0    | 7.0    | 8.4    | 9.0    |
|       |       |       |       |       |       |       |       | 92.5°  | 6.0    | 6.0    | 6.0    | 6.0    |
|       |       |       |       |       |       |       |       | 95°    | 7.0    | 7.0    | 7.0    | 7.0    |
|       |       |       |       |       |       |       |       | 97.5°  | 8.0    | 8.0    | 8.5    | 9.0    |
|       |       |       |       |       |       |       |       | 100°   | 19.0   | 19.0   | 21.0   | 23.0   |
|       |       |       |       |       |       |       |       | 102.5° | 38.0   | 39.0   | 40.5   | 42.0   |
|       |       |       |       |       |       |       |       | 105°   | 61.0   | 61.0   | 63.0   | 65.0   |
|       |       |       |       |       |       |       |       | 107.5° | 86.0   | 87.0   | 88.5   | 90.0   |



REPORT NUMBER: P227346

CATALOG NUMBER: IST-AF-450-LED-E1-SLR-8030-ULG

JLG

**CANDELA DISTRIBUTION (continued):**

| 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   |        | 270°  | 275°  | 280°  | 285°  | 290°  |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 729.3  | 729.3  | 729.3  | 729.3  | 729.3  | 729.3  | 729.3  | 110°   | 117.0 | 116.0 | 117.5 | 119.0 | 120.0 |
| 804.7  | 811.4  | 815.5  | 812.5  | 817.3  | 818.4  | 813.2  | 112.5° | 147.0 | 147.0 | 148.0 | 149.0 | 149.5 |
| 819.5  | 838.1  | 851.5  | 860.8  | 864.5  | 867.8  | 866.4  | 115°   | 178.0 | 177.0 | 178.0 | 179.0 | 180.5 |
| 792.1  | 820.7  | 845.5  | 862.6  | 868.6  | 873.0  | 869.0  | 117.5° | 209.0 | 208.0 | 209.0 | 210.0 | 212.5 |
| 761.6  | 791.3  | 814.7  | 831.8  | 831.4  | 835.9  | 828.1  | 120°   | 243.0 | 243.0 | 244.0 | 245.0 | 247.5 |
| 733.0  | 762.0  | 782.8  | 782.0  | 776.8  | 763.8  | 761.6  | 122.5° | 277.0 | 276.0 | 277.0 | 278.0 | 280.5 |
| 710.3  | 725.6  | 730.8  | 729.6  | 714.8  | 707.3  | 706.2  | 125°   | 310.0 | 310.0 | 310.0 | 310.0 | 312.5 |
| 699.2  | 698.4  | 686.5  | 673.5  | 659.4  | 658.7  | 649.0  | 127.5° | 347.0 | 345.0 | 345.5 | 346.0 | 346.0 |
| 701.0  | 676.9  | 655.0  | 632.7  | 617.4  | 614.1  | 615.2  | 130°   | 380.0 | 379.0 | 380.0 | 381.0 | 381.0 |
| 724.4  | 681.7  | 640.5  | 617.8  | 600.0  | 594.8  | 597.0  | 132.5° | 415.0 | 414.0 | 414.0 | 414.0 | 415.0 |
| 753.8  | 696.6  | 645.3  | 610.8  | 596.3  | 590.0  | 591.1  | 135°   | 451.0 | 450.0 | 448.5 | 447.0 | 447.5 |
| 773.5  | 713.7  | 661.3  | 618.6  | 598.9  | 592.9  | 596.6  | 137.5° | 482.0 | 481.0 | 478.5 | 476.0 | 475.5 |
| 798.7  | 737.1  | 682.8  | 638.6  | 609.3  | 601.5  | 604.1  | 140°   | 511.0 | 509.0 | 506.5 | 504.0 | 503.0 |
| 823.6  | 762.3  | 713.3  | 663.1  | 627.5  | 613.0  | 617.1  | 142.5° | 536.0 | 534.0 | 533.5 | 533.0 | 533.0 |
| 850.4  | 791.7  | 742.3  | 696.6  | 654.6  | 631.9  | 637.1  | 145°   | 560.0 | 558.0 | 559.5 | 561.0 | 561.5 |
| 881.6  | 825.9  | 783.5  | 741.5  | 698.4  | 679.5  | 681.7  | 147.5° | 585.0 | 583.0 | 584.5 | 586.0 | 585.5 |
| 911.7  | 859.3  | 832.2  | 801.0  | 775.7  | 746.7  | 746.7  | 150°   | 610.0 | 606.0 | 604.5 | 603.0 | 601.5 |
| 929.5  | 902.8  | 895.3  | 886.4  | 871.6  | 850.7  | 846.3  | 152.5° | 628.0 | 623.0 | 620.5 | 618.0 | 616.0 |
| 951.4  | 954.4  | 971.5  | 989.3  | 993.8  | 973.3  | 967.0  | 155°   | 641.0 | 638.0 | 637.0 | 636.0 | 633.5 |
| 992.7  | 1023.9 | 1080.0 | 1128.6 | 1138.3 | 1155.0 | 1135.7 | 157.5° | 655.0 | 650.0 | 650.0 | 650.0 | 649.0 |
| 1050.6 | 1108.2 | 1202.9 | 1282.4 | 1305.1 | 1306.6 | 1308.1 | 160°   | 666.0 | 660.0 | 660.5 | 661.0 | 662.5 |
| 1116.7 | 1199.2 | 1324.4 | 1419.2 | 1459.6 | 1470.4 | 1462.6 | 162.5° | 674.0 | 668.0 | 669.0 | 670.0 | 670.5 |
| 1230.1 | 1304.7 | 1441.8 | 1544.0 | 1596.0 | 1621.3 | 1614.6 | 165°   | 682.0 | 678.0 | 679.0 | 680.0 | 678.5 |
| 1342.3 | 1435.1 | 1555.9 | 1656.5 | 1711.9 | 1740.1 | 1746.1 | 167.5° | 694.0 | 688.0 | 688.0 | 688.0 | 686.0 |
| 1418.8 | 1505.7 | 1617.2 | 1710.0 | 1764.7 | 1798.5 | 1801.4 | 170°   | 701.0 | 696.0 | 695.0 | 694.0 | 691.5 |
| 1465.6 | 1545.1 | 1653.9 | 1735.7 | 1790.3 | 1818.9 | 1829.3 | 172.5° | 701.0 | 696.0 | 695.0 | 694.0 | 693.0 |
| 1607.5 | 1622.0 | 1696.3 | 1750.2 | 1788.4 | 1801.4 | 1809.2 | 175°   | 699.0 | 694.0 | 695.0 | 696.0 | 695.5 |
| 1674.0 | 1613.4 | 1604.9 | 1638.3 | 1641.7 | 1633.1 | 1622.4 | 177.5° | 702.0 | 698.0 | 699.5 | 701.0 | 700.0 |
| 1581.5 | 1440.0 | 1387.6 | 1383.1 | 1369.4 | 1363.8 | 1329.6 | 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |
| 1373.5 | 1169.5 | 1077.0 | 1026.8 | 1057.3 | 1056.2 | 1021.3 |        |       |       |       |       |       |
| 1157.2 | 949.6  | 829.6  | 757.5  | 748.6  | 747.1  | 716.6  |        |       |       |       |       |       |
| 939.9  | 745.2  | 640.1  | 605.2  | 563.2  | 550.6  | 555.8  |        |       |       |       |       |       |
| 677.6  | 532.0  | 509.7  | 536.5  | 539.8  | 530.1  | 523.5  |        |       |       |       |       |       |
| 426.9  | 400.1  | 421.7  | 470.3  | 498.9  | 486.3  | 491.1  |        |       |       |       |       |       |
| 355.9  | 315.0  | 316.5  | 367.8  | 387.1  | 390.1  | 380.1  |        |       |       |       |       |       |
| 394.9  | 315.4  | 258.6  | 252.3  | 245.6  | 154.5  | 215.1  |        |       |       |       |       |       |
| 355.9  | 244.1  | 143.8  | 118.5  | 72.8   | 42.0   | 43.5   |        |       |       |       |       |       |
| 9.0    | 9.0    | 8.0    | 7.0    | 7.0    | 7.0    | 7.5    |        |       |       |       |       |       |
| 6.5    | 7.0    | 7.0    | 7.0    | 6.5    | 6.0    | 6.0    |        |       |       |       |       |       |
| 7.5    | 8.0    | 7.5    | 7.0    | 7.0    | 7.0    | 7.0    |        |       |       |       |       |       |
| 9.5    | 10.0   | 11.0   | 12.0   | 10.5   | 9.0    | 9.0    |        |       |       |       |       |       |
| 24.5   | 26.0   | 27.5   | 29.0   | 25.0   | 21.0   | 16.5   |        |       |       |       |       |       |
| 44.5   | 47.0   | 48.5   | 50.0   | 45.0   | 40.0   | 33.5   |        |       |       |       |       |       |
| 67.5   | 70.0   | 71.0   | 72.0   | 67.5   | 63.0   | 55.5   |        |       |       |       |       |       |
| 92.0   | 94.0   | 94.5   | 95.0   | 91.5   | 88.0   | 80.5   |        |       |       |       |       |       |



REPORT NUMBER: P227346

CATALOG NUMBER: IST-AF-450-LED-E1-SLR-8030-ULG

**CANDELA DISTRIBUTION (continued):**

| 295°  | 300°  | 305°  | 310°  | 315°  | 320°  |        | 325°   | 330°   | 335°   | 340°   | 345°   | 350°   |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 121.0 | 120.5 | 120.0 | 117.0 | 114.0 | 108.0 | 0°     | 729.3  | 729.3  | 729.3  | 729.3  | 729.3  | 729.3  |
| 150.0 | 149.0 | 148.0 | 145.5 | 143.0 | 138.5 | 2.5°   | 812.1  | 805.1  | 797.3  | 786.8  | 788.7  | 776.1  |
| 182.0 | 180.5 | 179.0 | 176.5 | 174.0 | 171.0 | 5°     | 854.8  | 842.6  | 825.9  | 804.7  | 785.0  | 759.7  |
| 215.0 | 213.0 | 211.0 | 208.0 | 205.0 | 203.5 | 7.5°   | 850.4  | 830.7  | 802.8  | 770.9  | 744.9  | 708.5  |
| 250.0 | 248.0 | 246.0 | 244.5 | 243.0 | 240.0 | 10°    | 812.1  | 786.5  | 763.8  | 730.8  | 696.9  | 665.0  |
| 283.0 | 281.0 | 279.0 | 278.0 | 277.0 | 274.0 | 12.5°  | 758.6  | 744.1  | 724.4  | 699.5  | 666.9  | 634.2  |
| 315.0 | 314.0 | 313.0 | 311.5 | 310.0 | 307.5 | 15°    | 700.3  | 701.4  | 689.5  | 682.8  | 666.5  | 640.5  |
| 346.0 | 345.5 | 345.0 | 342.5 | 340.0 | 339.5 | 17.5°  | 652.4  | 663.5  | 669.8  | 680.2  | 682.1  | 669.5  |
| 381.0 | 379.0 | 377.0 | 374.5 | 372.0 | 371.0 | 20°    | 620.4  | 636.0  | 655.7  | 684.3  | 714.4  | 727.4  |
| 416.0 | 413.5 | 411.0 | 408.0 | 405.0 | 404.5 | 22.5°  | 602.6  | 621.9  | 653.5  | 705.5  | 760.5  | 793.5  |
| 448.0 | 445.5 | 443.0 | 440.0 | 437.0 | 436.0 | 25°    | 599.2  | 624.9  | 669.1  | 732.6  | 803.9  | 850.4  |
| 475.0 | 474.0 | 473.0 | 470.5 | 468.0 | 466.0 | 27.5°  | 604.8  | 638.2  | 690.6  | 763.1  | 833.3  | 900.5  |
| 502.0 | 501.0 | 500.0 | 498.5 | 497.0 | 494.0 | 30°    | 622.6  | 661.7  | 718.9  | 796.9  | 869.7  | 936.6  |
| 533.0 | 530.0 | 527.0 | 526.0 | 525.0 | 523.0 | 32.5°  | 639.7  | 688.0  | 751.2  | 827.3  | 900.5  | 967.0  |
| 562.0 | 559.0 | 556.0 | 553.5 | 551.0 | 550.5 | 35°    | 667.2  | 715.9  | 780.5  | 850.7  | 921.7  | 997.1  |
| 585.0 | 582.5 | 580.0 | 577.5 | 575.0 | 574.5 | 37.5°  | 709.2  | 751.9  | 803.6  | 869.0  | 942.9  | 1020.9 |
| 600.0 | 598.5 | 597.0 | 595.0 | 593.0 | 593.0 | 40°    | 769.0  | 797.3  | 830.7  | 882.3  | 953.3  | 1036.9 |
| 614.0 | 612.5 | 611.0 | 610.5 | 610.0 | 610.0 | 42.5°  | 858.6  | 864.5  | 876.0  | 902.8  | 962.6  | 1055.4 |
| 631.0 | 628.5 | 626.0 | 627.0 | 628.0 | 629.0 | 45°    | 974.1  | 956.3  | 946.2  | 942.5  | 983.4  | 1067.3 |
| 648.0 | 646.0 | 644.0 | 644.5 | 645.0 | 645.5 | 47.5°  | 1108.2 | 1073.3 | 1033.2 | 1013.8 | 1023.5 | 1086.3 |
| 664.0 | 661.0 | 658.0 | 656.5 | 655.0 | 655.0 | 50°    | 1282.8 | 1226.0 | 1147.2 | 1091.5 | 1086.7 | 1142.0 |
| 671.0 | 669.0 | 667.0 | 665.0 | 663.0 | 662.0 | 52.5°  | 1442.9 | 1368.6 | 1269.4 | 1203.7 | 1176.9 | 1246.0 |
| 677.0 | 674.5 | 672.0 | 672.5 | 673.0 | 673.0 | 55°    | 1594.1 | 1536.9 | 1424.7 | 1343.0 | 1333.7 | 1383.9 |
| 684.0 | 681.0 | 678.0 | 681.5 | 685.0 | 686.5 | 57.5°  | 1726.8 | 1677.3 | 1585.6 | 1479.0 | 1482.7 | 1531.3 |
| 689.0 | 687.5 | 686.0 | 688.5 | 691.0 | 692.0 | 59°    | 1795.5 | 1754.3 | 1669.2 | 1560.7 | 1568.9 | 1635.7 |
| 692.0 | 690.5 | 689.0 | 689.5 | 690.0 | 690.0 | 60°    | 1820.0 | 1785.5 | 1704.5 | 1613.1 | 1623.5 | 1693.0 |
| 695.0 | 692.5 | 690.0 | 690.0 | 690.0 | 690.5 | 62.5°  | 1818.1 | 1795.9 | 1737.2 | 1694.1 | 1747.2 | 1798.1 |
| 699.0 | 696.5 | 694.0 | 694.5 | 695.0 | 696.0 | 65°    | 1644.7 | 1610.8 | 1604.2 | 1679.6 | 1782.1 | 1831.2 |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 67.5°  | 1308.1 | 1324.0 | 1387.6 | 1517.2 | 1689.2 | 1760.6 |
|       |       |       |       |       |       | 70°    | 971.5  | 999.7  | 1084.4 | 1247.1 | 1483.4 | 1606.8 |
|       |       |       |       |       |       | 72.5°  | 714.4  | 742.6  | 820.7  | 999.0  | 1220.4 | 1329.6 |
|       |       |       |       |       |       | 75°    | 560.6  | 569.1  | 625.2  | 765.3  | 961.8  | 1051.4 |
|       |       |       |       |       |       | 77.5°  | 517.9  | 492.2  | 469.2  | 544.3  | 648.6  | 725.6  |
|       |       |       |       |       |       | 80°    | 482.2  | 433.5  | 379.3  | 402.0  | 427.2  | 509.0  |
|       |       |       |       |       |       | 82.5°  | 374.5  | 342.2  | 299.8  | 328.8  | 340.7  | 343.3  |
|       |       |       |       |       |       | 85°    | 219.2  | 195.0  | 247.1  | 350.0  | 346.2  | 303.1  |
|       |       |       |       |       |       | 87.5°  | 77.3   | 100.3  | 112.9  | 193.9  | 234.4  | 202.8  |
|       |       |       |       |       |       | 90°    | 8.0    | 9.1    | 11.3   | 11.2   | 12.6   | 7.9    |
|       |       |       |       |       |       | 92.5°  | 6.0    | 6.0    | 6.0    | 5.5    | 5.0    | 4.5    |
|       |       |       |       |       |       | 95°    | 7.0    | 7.0    | 7.0    | 6.5    | 6.0    | 5.5    |
|       |       |       |       |       |       | 97.5°  | 9.0    | 8.5    | 8.0    | 8.0    | 8.0    | 7.5    |
|       |       |       |       |       |       | 100°   | 12.0   | 11.0   | 10.0   | 9.5    | 9.0    | 8.5    |
|       |       |       |       |       |       | 102.5° | 27.0   | 22.5   | 18.0   | 15.5   | 13.0   | 12.0   |
|       |       |       |       |       |       | 105°   | 48.0   | 42.0   | 36.0   | 31.5   | 27.0   | 24.5   |
|       |       |       |       |       |       | 107.5° | 73.0   | 65.5   | 58.0   | 53.5   | 49.0   | 45.5   |



REPORT NUMBER: P227346

CATALOG NUMBER: IST-AF-450-LED-E1-SLR-8030-ULG

**CANDELA DISTRIBUTION (continued):**

| 355°   | 359°   | 360°   |        | 325°  | 330°  | 335°  | 340°  | 345°  | 350°  | 355°  |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 729.3  | 729.3  | 729.3  | 110°   | 102.0 | 94.5  | 87.0  | 80.5  | 74.0  | 71.0  | 68.0  |
| 766.0  | 755.6  | 754.9  | 112.5° | 134.0 | 127.5 | 121.0 | 113.5 | 106.0 | 102.5 | 99.0  |
| 739.7  | 716.3  | 708.8  | 115°   | 168.0 | 163.5 | 159.0 | 153.0 | 147.0 | 143.0 | 139.0 |
| 676.9  | 649.8  | 644.2  | 117.5° | 202.0 | 199.5 | 197.0 | 193.0 | 189.0 | 186.5 | 184.0 |
| 624.1  | 594.0  | 588.8  | 120°   | 237.0 | 235.0 | 233.0 | 229.5 | 226.0 | 224.5 | 223.0 |
| 597.0  | 568.4  | 562.1  | 122.5° | 271.0 | 269.0 | 267.0 | 264.0 | 261.0 | 260.5 | 260.0 |
| 607.4  | 575.8  | 572.5  | 125°   | 305.0 | 302.0 | 299.0 | 297.5 | 296.0 | 295.0 | 294.0 |
| 646.4  | 613.0  | 614.5  | 127.5° | 339.0 | 336.0 | 333.0 | 331.0 | 329.0 | 329.0 | 329.0 |
| 713.3  | 691.7  | 686.5  | 130°   | 370.0 | 368.0 | 366.0 | 364.0 | 362.0 | 361.5 | 361.0 |
| 801.0  | 777.6  | 770.9  | 132.5° | 404.0 | 402.5 | 401.0 | 397.0 | 393.0 | 393.5 | 394.0 |
| 875.6  | 863.8  | 859.3  | 135°   | 435.0 | 433.5 | 432.0 | 429.0 | 426.0 | 426.0 | 426.0 |
| 929.5  | 935.1  | 930.6  | 137.5° | 464.0 | 462.0 | 460.0 | 459.5 | 459.0 | 458.0 | 457.0 |
| 972.6  | 991.2  | 988.9  | 140°   | 491.0 | 490.0 | 489.0 | 488.0 | 487.0 | 486.0 | 485.0 |
| 1016.8 | 1052.8 | 1054.3 | 142.5° | 521.0 | 519.5 | 518.0 | 517.5 | 517.0 | 516.0 | 515.0 |
| 1049.5 | 1113.0 | 1126.0 | 145°   | 550.0 | 548.5 | 547.0 | 545.5 | 544.0 | 545.0 | 546.0 |
| 1091.5 | 1176.6 | 1189.9 | 147.5° | 574.0 | 574.0 | 574.0 | 572.5 | 571.0 | 571.5 | 572.0 |
| 1123.4 | 1223.4 | 1239.7 | 150°   | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 592.5 | 592.0 |
| 1154.6 | 1262.0 | 1279.8 | 152.5° | 610.0 | 609.5 | 609.0 | 608.5 | 608.0 | 608.0 | 608.0 |
| 1180.3 | 1300.3 | 1318.5 | 155°   | 630.0 | 628.5 | 627.0 | 626.0 | 625.0 | 625.0 | 625.0 |
| 1209.3 | 1337.4 | 1355.3 | 157.5° | 646.0 | 645.0 | 644.0 | 643.5 | 643.0 | 643.0 | 643.0 |
| 1261.3 | 1395.7 | 1416.9 | 160°   | 655.0 | 655.5 | 656.0 | 657.5 | 659.0 | 659.5 | 660.0 |
| 1373.1 | 1503.9 | 1533.9 | 162.5° | 661.0 | 663.0 | 665.0 | 667.0 | 669.0 | 669.0 | 669.0 |
| 1534.7 | 1653.2 | 1677.0 | 165°   | 673.0 | 674.5 | 676.0 | 676.0 | 676.0 | 677.0 | 678.0 |
| 1680.3 | 1754.6 | 1760.9 | 167.5° | 688.0 | 687.0 | 686.0 | 685.0 | 684.0 | 685.5 | 687.0 |
| 1740.1 | 1782.5 | 1780.6 | 170°   | 693.0 | 692.5 | 692.0 | 692.0 | 692.0 | 693.5 | 695.0 |
| 1784.0 | 1789.2 | 1778.8 | 172.5° | 690.0 | 691.5 | 693.0 | 694.0 | 695.0 | 696.0 | 697.0 |
| 1807.7 | 1758.3 | 1740.5 | 175°   | 691.0 | 693.0 | 695.0 | 696.0 | 697.0 | 697.5 | 698.0 |
| 1745.7 | 1677.0 | 1653.6 | 177.5° | 697.0 | 698.0 | 699.0 | 699.5 | 700.0 | 702.5 | 705.0 |
| 1566.6 | 1530.2 | 1503.5 | 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |
| 1332.6 | 1240.5 | 1223.0 |        |       |       |       |       |       |       |       |
| 1010.1 | 888.6  | 862.6  |        |       |       |       |       |       |       |       |
| 705.9  | 560.2  | 524.9  |        |       |       |       |       |       |       |       |
| 464.0  | 359.6  | 346.2  |        |       |       |       |       |       |       |       |
| 300.9  | 238.9  | 234.8  |        |       |       |       |       |       |       |       |
| 209.9  | 156.8  | 144.5  |        |       |       |       |       |       |       |       |
| 128.9  | 52.4   | 50.2   |        |       |       |       |       |       |       |       |
| 40.1   | 24.1   | 21.5   |        |       |       |       |       |       |       |       |
| 6.1    | 6.5    | 6.5    |        |       |       |       |       |       |       |       |
| 4.0    | 4.0    | 4.0    |        |       |       |       |       |       |       |       |
| 5.0    | 5.0    | 5.0    |        |       |       |       |       |       |       |       |
| 7.0    | 7.0    | 7.0    |        |       |       |       |       |       |       |       |
| 8.0    | 8.0    | 8.0    |        |       |       |       |       |       |       |       |
| 11.0   | 11.0   | 11.0   |        |       |       |       |       |       |       |       |
| 22.0   | 21.2   | 21.0   |        |       |       |       |       |       |       |       |
| 42.0   | 41.2   | 41.0   |        |       |       |       |       |       |       |       |



| 359°  | 360°  |
|-------|-------|
| 66.4  | 66.0  |
| 99.0  | 99.0  |
| 139.8 | 140.0 |
| 184.0 | 184.0 |
| 224.6 | 225.0 |
| 262.4 | 263.0 |
| 297.2 | 298.0 |
| 329.8 | 330.0 |
| 362.6 | 363.0 |
| 395.6 | 396.0 |
| 428.4 | 429.0 |
| 459.4 | 460.0 |
| 487.4 | 488.0 |
| 517.4 | 518.0 |
| 549.2 | 550.0 |
| 574.4 | 575.0 |
| 594.4 | 595.0 |
| 610.4 | 611.0 |
| 628.2 | 629.0 |
| 645.4 | 646.0 |
| 662.4 | 663.0 |
| 672.2 | 673.0 |
| 680.4 | 681.0 |
| 689.4 | 690.0 |
| 697.4 | 698.0 |
| 698.6 | 699.0 |
| 699.6 | 700.0 |
| 706.6 | 707.0 |
| 700.0 | 700.0 |

(END OF REPORT)