

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: P227156

Luminaire Tested: **ISW-AF-350-LED-E1-SLL-8030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227156  
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: ISW-AF-350-LED-E1-SLL-8030-ULG  
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, 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: 3494.3 lumens  
Efficiency: N/A  
Efficacy: 95.0 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: B0 - U5 - G1

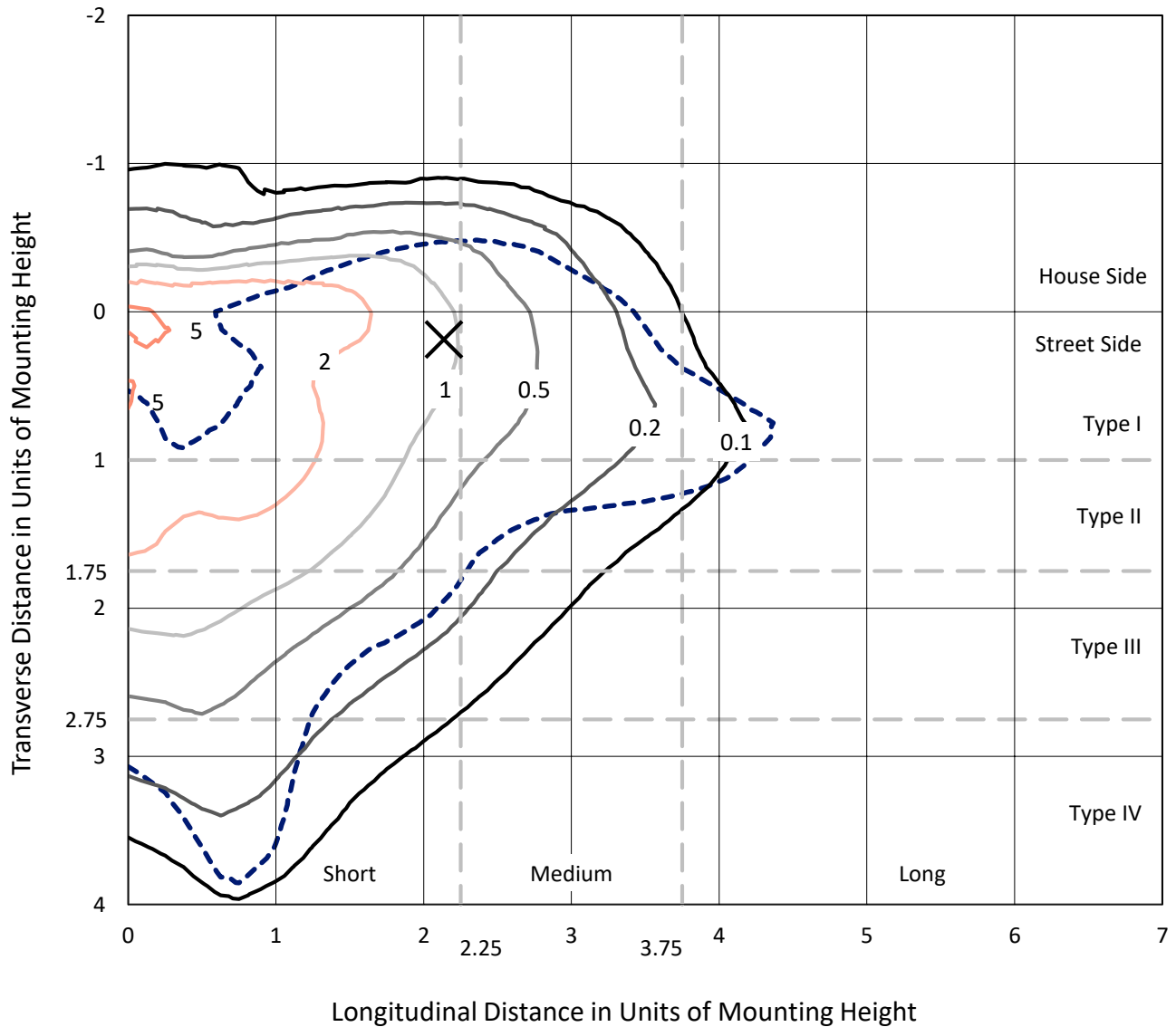
Input Watts (W): 36.79  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

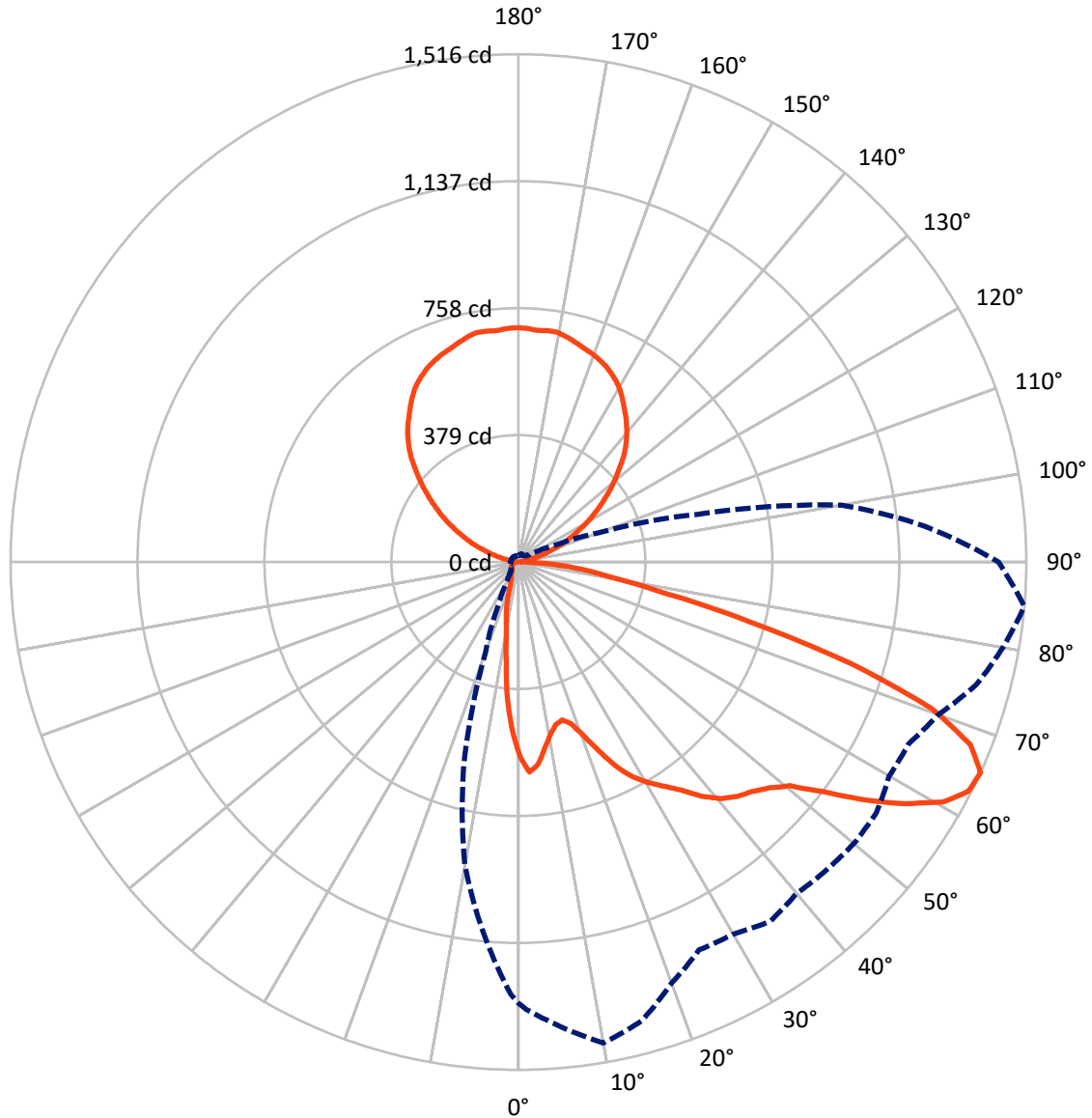
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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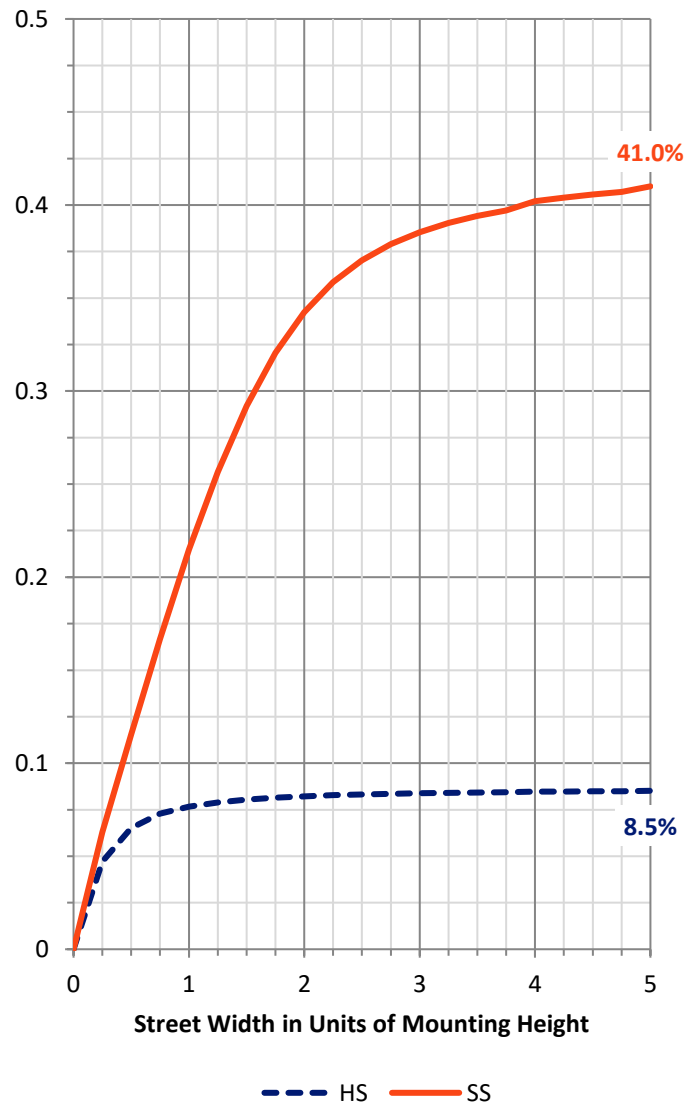
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 302.1    | 867.6  | 1169.7 |
|                    | % Fixture | 8.6      | 24.8   | 33.5   |
| <b>Street Side</b> | Lumens    | 1457.0   | 867.6  | 2324.6 |
|                    | % Fixture | 41.7     | 24.8   | 66.5   |
| <b>Total</b>       | Lumens    | 1759.1   | 1735.2 | 3494.3 |
|                    | % Fixture | 50.3     | 49.7   | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.0   | 1.2       |
| 10°-20°   | 82.8   | 2.4       |
| 20°-30°   | 118.1  | 3.4       |
| 30°-40°   | 171.3  | 4.9       |
| 40°-50°   | 245.0  | 7.0       |
| 50°-60°   | 376.2  | 10.8      |
| 60°-70°   | 435.4  | 12.5      |
| 70°-80°   | 222.1  | 6.4       |
| 80°-90°   | 65.1   | 1.9       |
| 90°-100°  | 9.3    | 0.3       |
| 100°-110° | 57.4   | 1.6       |
| 110°-120° | 166.1  | 4.8       |
| 120°-130° | 273.2  | 7.8       |
| 130°-140° | 336.8  | 9.6       |
| 140°-150° | 344.6  | 9.9       |
| 150°-160° | 290.3  | 8.3       |
| 160°-170° | 191.2  | 5.5       |
| 170°-180° | 66.3   | 1.9       |
| 0°-90°    | 1759.1 | 50.3      |
| 0°-180°   | 3494.3 | 100.0     |



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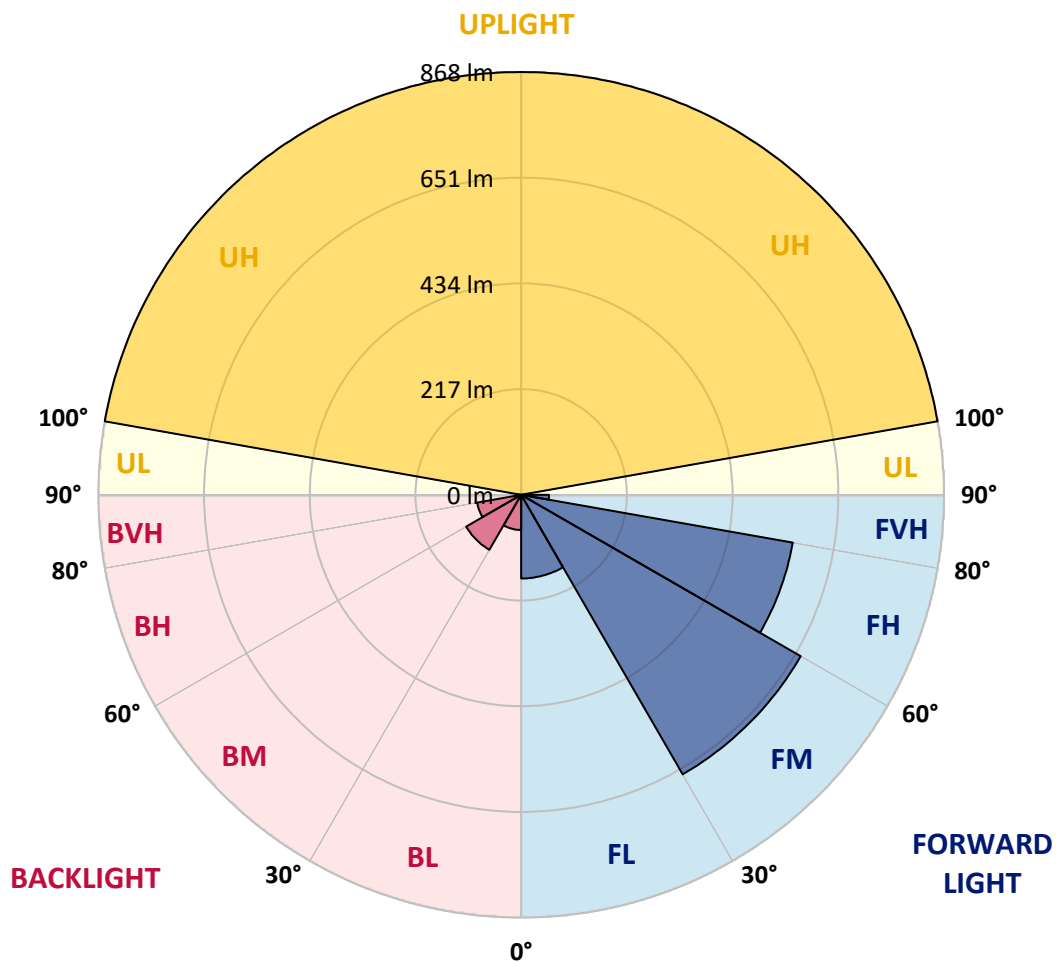
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |         |        |
|----------------|--------|-----------|-------------------------|---------|--------|
|                |        |           | B                       | U       | G      |
| FL (0°-30°)    | 171.7  | 4.9       |                         |         |        |
| FM (30°-60°)   | 662.3  | 19.0      |                         |         |        |
| FH (60°-80°)   | 565.8  | 16.2      |                         |         | G0/660 |
| FVH (80°-90°)  | 57.2   | 1.6       |                         |         | G1/100 |
| BL (0°-30°)    | 72.2   | 2.1       | B0/110                  |         |        |
| BM (30°-60°)   | 130.2  | 3.7       | B0/220                  |         |        |
| BH (60°-80°)   | 91.7   | 2.6       | B0/110                  |         | G0/110 |
| BVH (80°-90°)  | 8.0    | 0.2       |                         |         | G0/10  |
| UL (90°-100°)  | 9.3    | 0.3       |                         | U1/10   |        |
| UH (100°-180°) | 867.6  | 24.8      |                         | U4/1000 |        |

**BUG Rating: B0-U5-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 1°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 580.8  | 580.8  | 580.8  | 580.8  | 580.8  | 580.8  | 580.8  | 580.8  | 580.8  | 580.8  | 580.8  |
| 2.5°   | 601.2  | 601.8  | 610.1  | 618.1  | 628.2  | 626.7  | 635.0  | 641.2  | 646.8  | 647.7  | 651.8  |
| 5°     | 564.5  | 570.5  | 589.1  | 605.1  | 625.2  | 640.9  | 657.7  | 671.1  | 680.8  | 690.0  | 691.2  |
| 7.5°   | 513.1  | 517.5  | 539.1  | 564.2  | 593.2  | 613.9  | 639.4  | 661.6  | 677.3  | 692.1  | 695.3  |
| 10°    | 469.0  | 473.1  | 497.1  | 529.6  | 555.1  | 582.0  | 608.3  | 626.4  | 646.8  | 659.5  | 665.7  |
| 12.5°  | 447.7  | 452.7  | 475.5  | 505.1  | 531.1  | 557.1  | 577.0  | 592.6  | 604.2  | 606.6  | 608.3  |
| 15°    | 455.9  | 458.6  | 483.8  | 510.1  | 530.8  | 543.8  | 549.2  | 558.6  | 557.7  | 562.5  | 563.4  |
| 17.5°  | 489.4  | 488.2  | 514.8  | 533.2  | 543.2  | 541.8  | 533.5  | 528.4  | 519.6  | 516.9  | 524.6  |
| 20°    | 546.8  | 550.9  | 568.1  | 579.3  | 569.0  | 545.0  | 522.2  | 506.5  | 494.1  | 490.0  | 489.1  |
| 22.5°  | 613.9  | 619.3  | 637.9  | 632.0  | 605.7  | 561.9  | 520.5  | 495.3  | 479.9  | 475.5  | 473.7  |
| 25°    | 684.4  | 687.9  | 697.4  | 677.3  | 640.3  | 583.5  | 532.9  | 497.7  | 477.3  | 470.7  | 469.9  |
| 27.5°  | 741.2  | 744.7  | 740.3  | 717.2  | 663.7  | 607.7  | 550.0  | 508.3  | 481.7  | 475.2  | 472.2  |
| 30°    | 787.6  | 789.4  | 774.6  | 745.9  | 692.7  | 634.7  | 572.5  | 527.0  | 495.9  | 481.1  | 479.0  |
| 32.5°  | 839.7  | 838.5  | 809.8  | 770.2  | 717.2  | 658.9  | 598.3  | 548.0  | 509.5  | 491.5  | 488.2  |
| 35°    | 896.8  | 886.5  | 835.9  | 794.1  | 734.1  | 677.6  | 621.6  | 570.2  | 531.4  | 507.4  | 503.3  |
| 37.5°  | 947.7  | 937.0  | 869.3  | 813.1  | 750.9  | 692.1  | 640.0  | 598.9  | 564.8  | 542.9  | 541.2  |
| 40°    | 987.3  | 974.3  | 894.7  | 825.8  | 759.2  | 702.7  | 661.6  | 635.0  | 612.5  | 594.7  | 594.7  |
| 42.5°  | 1019.3 | 1005.1 | 919.6  | 840.6  | 766.6  | 719.0  | 697.7  | 688.5  | 683.8  | 674.0  | 677.6  |
| 45°    | 1050.1 | 1035.6 | 940.0  | 850.1  | 783.2  | 750.6  | 753.6  | 761.6  | 775.8  | 770.2  | 775.2  |
| 47.5°  | 1079.4 | 1065.2 | 963.1  | 865.2  | 815.1  | 807.5  | 822.8  | 854.8  | 882.6  | 904.5  | 919.9  |
| 50°    | 1128.5 | 1111.6 | 1004.5 | 909.5  | 865.4  | 869.3  | 913.7  | 976.4  | 1021.7 | 1041.8 | 1040.6 |
| 52.5°  | 1221.7 | 1197.7 | 1093.6 | 992.4  | 937.3  | 958.6  | 1011.0 | 1090.0 | 1149.2 | 1164.9 | 1171.1 |
| 55°    | 1335.6 | 1316.7 | 1222.3 | 1102.1 | 1062.2 | 1069.6 | 1134.7 | 1224.1 | 1269.6 | 1285.9 | 1291.2 |
| 57.5°  | 1402.5 | 1397.4 | 1338.3 | 1219.6 | 1180.9 | 1177.9 | 1262.8 | 1335.9 | 1375.2 | 1390.6 | 1385.9 |
| 59°    | 1418.1 | 1419.6 | 1385.9 | 1302.8 | 1249.5 | 1243.0 | 1329.4 | 1397.1 | 1430.0 | 1434.7 | 1432.4 |
| 60°    | 1416.7 | 1425.0 | 1420.8 | 1348.3 | 1293.0 | 1284.7 | 1357.5 | 1422.0 | 1449.5 | 1456.9 | 1448.6 |
| 62.5°  | 1386.2 | 1400.4 | 1439.7 | 1432.1 | 1391.5 | 1349.2 | 1383.5 | 1430.3 | 1448.0 | 1440.9 | 1434.7 |
| 65°    | 1317.0 | 1335.6 | 1390.3 | 1458.4 | 1419.3 | 1337.7 | 1277.6 | 1282.9 | 1309.9 | 1292.1 | 1300.7 |
| 67.5°  | 1197.4 | 1218.7 | 1247.7 | 1402.2 | 1345.4 | 1208.4 | 1105.1 | 1054.5 | 1041.8 | 1059.0 | 1086.2 |
| 70°    | 974.0  | 987.9  | 1061.3 | 1279.7 | 1181.4 | 993.3  | 863.7  | 796.2  | 773.7  | 813.4  | 841.2  |
| 72.5°  | 687.0  | 707.7  | 804.5  | 1059.0 | 972.0  | 795.6  | 653.6  | 591.5  | 569.0  | 570.8  | 595.0  |
| 75°    | 418.1  | 446.2  | 562.2  | 837.3  | 766.0  | 609.5  | 498.0  | 453.3  | 446.5  | 442.6  | 438.5  |
| 77.5°  | 275.8  | 286.4  | 369.6  | 577.9  | 516.6  | 433.5  | 373.7  | 392.0  | 412.5  | 416.9  | 422.2  |
| 80°    | 187.0  | 190.3  | 239.7  | 405.4  | 340.3  | 320.1  | 302.1  | 345.3  | 384.1  | 391.2  | 387.3  |
| 82.5°  | 115.1  | 124.9  | 167.2  | 273.4  | 271.3  | 261.9  | 238.8  | 272.5  | 298.2  | 302.7  | 310.7  |
| 85°    | 39.9   | 41.7   | 102.7  | 241.4  | 275.8  | 278.7  | 196.8  | 155.3  | 174.6  | 171.3  | 123.1  |
| 87.5°  | 17.2   | 19.2   | 32.0   | 161.6  | 186.7  | 154.4  | 89.9   | 79.9   | 61.5   | 34.6   | 33.4   |
| 90°    | 6.2    | 6.2    | 5.9    | 7.5    | 11.4   | 10.5   | 10.7   | 8.9    | 8.0    | 7.5    | 7.0    |
| 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°     | 580.8  | 580.8  | 580.8  | 580.8  | 580.8  | 580.8  | 580.8  | 580.8  | 580.8  | 580.8  | 580.8  |
| 2.5°   | 650.9  | 647.1  | 649.5  | 646.2  | 640.9  | 637.3  | 633.2  | 627.9  | 621.6  | 613.4  | 605.1  |
| 5°     | 688.5  | 685.6  | 678.2  | 667.5  | 652.7  | 640.3  | 625.5  | 608.0  | 593.5  | 574.9  | 557.4  |
| 7.5°   | 691.8  | 687.0  | 673.4  | 653.6  | 630.8  | 607.7  | 590.3  | 561.9  | 543.5  | 513.9  | 494.1  |
| 10°    | 662.2  | 662.5  | 648.9  | 630.2  | 606.6  | 579.3  | 554.2  | 523.1  | 496.2  | 466.0  | 432.9  |
| 12.5°  | 618.7  | 622.8  | 623.4  | 606.8  | 583.8  | 555.1  | 527.0  | 497.4  | 463.9  | 431.7  | 401.2  |
| 15°    | 569.3  | 581.1  | 582.0  | 577.9  | 565.7  | 541.5  | 515.7  | 489.1  | 455.1  | 419.9  | 385.5  |
| 17.5°  | 525.2  | 536.4  | 546.8  | 556.3  | 556.8  | 545.3  | 529.6  | 506.8  | 472.8  | 431.4  | 391.2  |
| 20°    | 491.8  | 503.9  | 521.6  | 539.1  | 558.3  | 564.2  | 565.4  | 550.9  | 514.5  | 463.9  | 409.5  |
| 22.5°  | 477.8  | 492.0  | 510.1  | 542.9  | 577.0  | 598.0  | 609.8  | 609.8  | 571.6  | 512.5  | 439.7  |
| 25°    | 474.9  | 486.4  | 513.9  | 554.8  | 600.3  | 637.0  | 659.5  | 674.6  | 647.1  | 574.9  | 477.0  |
| 27.5°  | 477.0  | 492.6  | 526.7  | 568.4  | 616.0  | 663.1  | 700.1  | 726.4  | 700.6  | 617.5  | 511.6  |
| 30°    | 485.2  | 508.6  | 543.8  | 587.0  | 636.1  | 685.8  | 730.5  | 764.0  | 745.0  | 656.3  | 544.4  |
| 32.5°  | 499.7  | 528.1  | 568.1  | 607.1  | 656.0  | 709.8  | 753.9  | 798.0  | 784.1  | 683.2  | 561.9  |
| 35°    | 521.3  | 554.8  | 591.2  | 630.5  | 677.3  | 731.1  | 778.2  | 835.9  | 830.8  | 716.9  | 579.3  |
| 37.5°  | 556.3  | 590.6  | 624.0  | 657.7  | 702.1  | 754.5  | 813.1  | 886.7  | 882.6  | 766.9  | 607.4  |
| 40°    | 617.8  | 637.9  | 662.8  | 684.4  | 726.1  | 776.1  | 838.8  | 928.8  | 943.6  | 809.8  | 632.3  |
| 42.5°  | 694.1  | 706.0  | 713.1  | 719.0  | 740.3  | 787.3  | 857.5  | 956.9  | 981.1  | 841.8  | 651.5  |
| 45°    | 791.5  | 787.9  | 773.7  | 760.1  | 757.7  | 793.8  | 866.0  | 977.6  | 1010.7 | 872.8  | 671.1  |
| 47.5°  | 906.6  | 898.9  | 860.1  | 815.4  | 790.6  | 805.7  | 881.1  | 1008.1 | 1047.1 | 913.7  | 695.3  |
| 50°    | 1039.4 | 1021.4 | 958.1  | 882.6  | 836.7  | 839.1  | 919.3  | 1050.4 | 1095.0 | 966.9  | 740.6  |
| 52.5°  | 1162.5 | 1130.3 | 1054.8 | 955.1  | 889.4  | 897.4  | 987.9  | 1138.0 | 1193.3 | 1055.1 | 816.6  |
| 55°    | 1271.1 | 1229.7 | 1148.3 | 1039.1 | 979.7  | 993.6  | 1097.7 | 1253.9 | 1306.3 | 1160.1 | 893.6  |
| 57.5°  | 1363.4 | 1319.3 | 1239.1 | 1143.0 | 1069.0 | 1080.6 | 1195.6 | 1361.6 | 1396.8 | 1254.5 | 967.2  |
| 59°    | 1405.4 | 1361.9 | 1288.0 | 1199.2 | 1130.0 | 1154.2 | 1264.9 | 1415.2 | 1430.3 | 1290.9 | 995.3  |
| 60°    | 1425.8 | 1382.3 | 1317.3 | 1230.6 | 1167.2 | 1199.2 | 1301.6 | 1455.7 | 1442.7 | 1296.2 | 1006.0 |
| 62.5°  | 1424.4 | 1393.9 | 1351.0 | 1291.8 | 1280.3 | 1333.5 | 1420.8 | 1507.8 | 1451.3 | 1280.9 | 1012.8 |
| 65°    | 1307.5 | 1304.8 | 1278.2 | 1285.0 | 1333.2 | 1415.5 | 1469.0 | 1516.4 | 1433.5 | 1219.6 | 980.0  |
| 67.5°  | 1090.6 | 1101.6 | 1105.1 | 1146.8 | 1259.6 | 1399.2 | 1446.3 | 1455.4 | 1356.3 | 1088.5 | 877.9  |
| 70°    | 842.1  | 817.8  | 857.8  | 931.4  | 1093.9 | 1273.8 | 1340.6 | 1308.7 | 1198.3 | 911.6  | 716.9  |
| 72.5°  | 596.2  | 603.3  | 660.7  | 756.3  | 921.7  | 1108.1 | 1212.8 | 1038.5 | 901.5  | 682.3  | 508.3  |
| 75°    | 448.6  | 482.0  | 509.8  | 593.5  | 748.6  | 949.2  | 1035.6 | 714.0  | 587.3  | 470.4  | 332.6  |
| 77.5°  | 429.9  | 427.2  | 405.9  | 423.7  | 539.7  | 664.8  | 738.8  | 445.6  | 367.8  | 307.7  | 200.9  |
| 80°    | 397.4  | 374.6  | 335.8  | 318.7  | 340.0  | 427.0  | 469.0  | 286.4  | 244.7  | 215.1  | 113.3  |
| 82.5°  | 308.3  | 292.9  | 252.1  | 250.9  | 283.5  | 303.3  | 322.5  | 203.0  | 184.0  | 174.3  | 69.5   |
| 85°    | 195.6  | 200.9  | 205.9  | 251.2  | 314.5  | 318.1  | 250.9  | 123.7  | 97.0   | 136.7  | 44.4   |
| 87.5°  | 58.0   | 94.4   | 114.5  | 194.4  | 283.5  | 284.3  | 188.8  | 40.5   | 36.4   | 42.6   | 25.7   |
| 90°    | 7.0    | 7.0    | 8.0    | 9.0    | 9.0    | 9.0    | 8.3    | 7.0    | 7.0    | 7.0    | 8.0    |
| 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: P227156

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-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: P227156

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-8030-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 105°  | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 |
| 2.5°   | 596.5 | 595.3 | 587.0 | 573.1 | 574.3 | 567.8 | 559.5 | 546.2 | 543.5 | 536.1 | 534.9 |
| 5°     | 542.6 | 528.7 | 510.7 | 488.8 | 480.5 | 469.3 | 457.7 | 449.4 | 439.1 | 429.6 | 442.3 |
| 7.5°   | 470.7 | 450.3 | 429.3 | 406.2 | 392.9 | 374.6 | 364.8 | 345.9 | 332.0 | 329.3 | 318.4 |
| 10°    | 410.7 | 384.9 | 361.0 | 340.3 | 315.4 | 298.2 | 285.8 | 275.5 | 266.0 | 254.5 | 247.4 |
| 12.5°  | 370.7 | 341.7 | 316.3 | 290.6 | 278.7 | 264.5 | 256.8 | 247.1 | 233.4 | 223.7 | 214.2 |
| 15°    | 352.7 | 321.3 | 293.5 | 271.0 | 253.9 | 240.5 | 226.9 | 215.1 | 200.3 | 189.4 | 178.4 |
| 17.5°  | 350.3 | 309.5 | 274.3 | 249.1 | 230.5 | 216.0 | 197.9 | 182.3 | 164.2 | 152.1 | 142.9 |
| 20°    | 353.0 | 300.6 | 256.5 | 223.7 | 204.7 | 179.3 | 162.4 | 143.2 | 125.5 | 109.5 | 95.0  |
| 22.5°  | 363.6 | 295.9 | 239.1 | 203.0 | 174.9 | 145.9 | 127.8 | 103.3 | 88.2  | 72.8  | 67.2  |
| 25°    | 378.1 | 292.9 | 224.0 | 180.2 | 144.7 | 116.0 | 91.4  | 71.0  | 64.2  | 60.4  | 58.3  |
| 27.5°  | 393.5 | 287.6 | 207.1 | 159.2 | 120.4 | 85.5  | 68.3  | 59.8  | 57.1  | 55.0  | 53.6  |
| 30°    | 405.1 | 277.2 | 186.4 | 136.7 | 95.9  | 73.1  | 61.0  | 55.3  | 53.6  | 51.2  | 49.7  |
| 32.5°  | 410.1 | 261.3 | 167.8 | 115.4 | 80.8  | 62.7  | 53.3  | 50.0  | 48.2  | 46.2  | 45.3  |
| 35°    | 409.2 | 243.2 | 158.3 | 107.1 | 74.0  | 55.6  | 46.7  | 44.7  | 42.3  | 40.2  | 38.2  |
| 37.5°  | 410.1 | 226.6 | 150.9 | 105.0 | 71.0  | 50.3  | 42.6  | 41.1  | 39.4  | 37.3  | 35.5  |
| 40°    | 413.6 | 217.5 | 147.3 | 100.6 | 68.6  | 48.2  | 39.4  | 37.9  | 37.6  | 35.2  | 33.7  |
| 42.5°  | 415.1 | 218.4 | 145.6 | 94.4  | 62.7  | 47.6  | 39.4  | 36.1  | 36.1  | 34.3  | 32.5  |
| 45°    | 413.3 | 224.9 | 146.8 | 90.8  | 58.3  | 44.7  | 41.4  | 36.1  | 35.2  | 33.7  | 32.0  |
| 47.5°  | 418.7 | 229.6 | 146.8 | 90.2  | 55.3  | 41.7  | 39.4  | 39.6  | 35.8  | 34.0  | 31.4  |
| 50°    | 440.6 | 234.0 | 143.8 | 89.4  | 54.4  | 38.8  | 37.3  | 39.1  | 40.2  | 34.6  | 31.7  |
| 52.5°  | 479.3 | 239.7 | 140.5 | 87.9  | 53.3  | 36.4  | 34.6  | 36.7  | 41.1  | 36.4  | 31.7  |
| 55°    | 519.0 | 249.7 | 138.5 | 85.5  | 51.5  | 34.9  | 31.4  | 35.2  | 37.6  | 36.1  | 31.4  |
| 57.5°  | 561.3 | 260.7 | 136.4 | 79.9  | 47.3  | 33.4  | 30.2  | 30.8  | 33.7  | 34.9  | 30.5  |
| 59°    | 574.0 | 266.0 | 134.6 | 75.7  | 43.8  | 32.3  | 29.3  | 28.4  | 30.2  | 33.4  | 29.9  |
| 60°    | 583.2 | 266.3 | 132.6 | 72.2  | 41.7  | 31.7  | 28.7  | 27.5  | 28.1  | 34.3  | 30.2  |
| 62.5°  | 584.1 | 266.0 | 126.0 | 64.8  | 37.6  | 30.5  | 27.8  | 26.3  | 25.7  | 28.7  | 30.8  |
| 65°    | 547.4 | 253.6 | 114.2 | 61.0  | 37.9  | 29.3  | 26.3  | 25.1  | 24.0  | 24.6  | 26.6  |
| 67.5°  | 478.7 | 221.6 | 101.8 | 61.8  | 39.9  | 28.4  | 25.1  | 24.0  | 23.1  | 22.5  | 23.4  |
| 70°    | 362.2 | 184.0 | 98.2  | 63.9  | 41.7  | 27.8  | 23.4  | 22.2  | 21.6  | 21.3  | 21.3  |
| 72.5°  | 250.9 | 151.5 | 94.4  | 65.4  | 43.2  | 27.5  | 21.6  | 20.4  | 20.1  | 19.8  | 19.8  |
| 75°    | 161.6 | 110.1 | 78.1  | 55.6  | 39.4  | 25.1  | 19.5  | 18.3  | 18.0  | 17.8  | 18.0  |
| 77.5°  | 95.6  | 76.9  | 57.4  | 39.1  | 28.7  | 20.1  | 16.9  | 16.0  | 16.0  | 16.0  | 16.3  |
| 80°    | 53.0  | 45.6  | 38.2  | 25.1  | 20.4  | 15.1  | 13.9  | 13.0  | 13.0  | 13.3  | 13.9  |
| 82.5°  | 31.7  | 25.1  | 21.6  | 16.0  | 13.9  | 10.7  | 10.4  | 9.8   | 10.1  | 10.4  | 10.9  |
| 85°    | 20.7  | 16.0  | 13.0  | 10.7  | 9.5   | 6.8   | 5.9   | 6.2   | 6.5   | 7.1   | 7.4   |
| 87.5°  | 11.5  | 8.9   | 7.1   | 6.2   | 5.6   | 3.0   | 2.4   | 2.4   | 3.0   | 3.6   | 4.1   |
| 90°    | 9.0   | 9.0   | 9.0   | 8.0   | 7.0   | 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: P227156  
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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: P227156  
 NUMBER: ISW-AF-350-LED-E1-SLL-8030-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

| 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 110°   | 160°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 110°   | 80.5  |
| 539.1 | 530.5 | 521.3 | 514.5 | 517.5 | 507.7 | 508.6 | 506.0 | 504.8 | 504.2 | 498.0 | 112.5° | 113.5 |
| 427.0 | 430.2 | 416.6 | 418.1 | 422.2 | 412.2 | 405.4 | 416.6 | 415.1 | 405.1 | 410.7 | 115°   | 153.0 |
| 307.7 | 308.6 | 302.4 | 288.5 | 288.5 | 295.9 | 298.5 | 303.9 | 307.4 | 319.8 | 312.2 | 117.5° | 193.0 |
| 235.2 | 226.9 | 220.7 | 214.5 | 211.0 | 203.6 | 205.3 | 211.8 | 216.0 | 223.1 | 228.7 | 120°   | 229.5 |
| 204.5 | 195.3 | 184.3 | 174.9 | 169.8 | 163.0 | 158.6 | 157.1 | 158.6 | 154.2 | 154.4 | 122.5° | 264.0 |
| 169.8 | 161.6 | 149.4 | 144.4 | 134.9 | 129.6 | 126.6 | 122.8 | 119.8 | 113.6 | 111.0 | 125°   | 297.5 |
| 131.7 | 120.7 | 108.3 | 108.3 | 101.5 | 97.0  | 95.9  | 95.0  | 93.2  | 89.9  | 86.7  | 127.5° | 331.0 |
| 87.6  | 80.5  | 73.4  | 69.8  | 70.4  | 69.8  | 68.1  | 71.0  | 71.0  | 72.2  | 71.6  | 130°   | 364.0 |
| 63.9  | 62.7  | 60.1  | 58.0  | 56.8  | 56.5  | 56.8  | 57.7  | 59.5  | 61.0  | 62.4  | 132.5° | 397.0 |
| 57.4  | 56.8  | 54.4  | 52.4  | 52.1  | 51.5  | 51.5  | 52.4  | 52.7  | 53.0  | 52.7  | 135°   | 429.0 |
| 53.3  | 52.1  | 50.0  | 48.5  | 47.9  | 47.6  | 47.9  | 47.0  | 46.5  | 46.7  | 46.5  | 137.5° | 459.5 |
| 48.2  | 47.3  | 45.3  | 44.1  | 43.8  | 43.8  | 42.9  | 42.6  | 42.0  | 42.3  | 42.0  | 140°   | 488.0 |
| 44.4  | 43.2  | 41.1  | 39.6  | 39.6  | 39.4  | 39.6  | 39.4  | 39.1  | 38.8  | 38.8  | 142.5° | 517.5 |
| 37.3  | 37.0  | 34.9  | 34.3  | 34.6  | 35.5  | 35.5  | 35.5  | 35.8  | 35.5  | 35.5  | 145°   | 545.5 |
| 34.6  | 34.3  | 32.3  | 30.8  | 30.5  | 30.5  | 30.5  | 31.1  | 32.0  | 32.3  | 32.8  | 147.5° | 572.5 |
| 32.8  | 32.5  | 30.5  | 29.3  | 28.7  | 28.4  | 28.1  | 28.1  | 28.4  | 29.6  | 30.5  | 150°   | 593.0 |
| 31.7  | 31.1  | 29.0  | 27.5  | 27.2  | 26.9  | 26.6  | 26.6  | 26.6  | 26.9  | 27.8  | 152.5° | 608.5 |
| 31.1  | 30.2  | 27.8  | 26.3  | 25.7  | 25.4  | 25.4  | 25.7  | 25.4  | 25.4  | 25.4  | 155°   | 626.0 |
| 30.2  | 29.6  | 27.2  | 25.4  | 24.9  | 24.9  | 24.6  | 24.6  | 24.6  | 24.0  | 24.0  | 157.5° | 643.5 |
| 29.9  | 29.0  | 26.6  | 24.9  | 24.3  | 24.0  | 23.7  | 24.0  | 23.4  | 23.1  | 22.8  | 160°   | 657.5 |
| 29.3  | 28.1  | 25.4  | 24.0  | 23.7  | 23.1  | 22.8  | 22.8  | 22.8  | 22.2  | 22.2  | 162.5° | 667.0 |
| 29.0  | 27.5  | 24.9  | 23.4  | 22.8  | 22.2  | 21.9  | 21.9  | 22.5  | 21.9  | 21.9  | 165°   | 676.0 |
| 28.7  | 26.6  | 24.0  | 22.2  | 21.9  | 21.3  | 21.0  | 21.3  | 22.2  | 21.6  | 21.3  | 167.5° | 685.0 |
| 27.5  | 26.0  | 23.4  | 21.9  | 21.3  | 20.7  | 20.4  | 20.7  | 21.3  | 21.3  | 21.3  | 170°   | 692.0 |
| 26.9  | 25.4  | 22.8  | 21.3  | 21.0  | 20.4  | 20.1  | 20.1  | 21.0  | 21.0  | 20.7  | 172.5° | 694.0 |
| 26.0  | 24.9  | 22.2  | 20.4  | 19.8  | 19.8  | 19.5  | 19.5  | 19.8  | 19.8  | 20.1  | 175°   | 696.0 |
| 24.9  | 24.3  | 21.6  | 19.5  | 19.2  | 18.9  | 18.9  | 18.9  | 18.9  | 19.5  | 19.5  | 177.5° | 699.5 |
| 23.7  | 23.4  | 20.7  | 18.9  | 18.3  | 18.3  | 18.3  | 18.3  | 18.3  | 18.6  | 18.9  | 180°   | 700.0 |
| 21.9  | 21.9  | 19.5  | 17.8  | 17.5  | 17.2  | 17.2  | 17.2  | 17.2  | 17.5  | 17.8  |        |       |
| 20.1  | 20.4  | 18.0  | 16.3  | 16.0  | 16.0  | 16.0  | 16.0  | 16.3  | 16.3  | 16.6  |        |       |
| 18.3  | 18.6  | 16.3  | 14.5  | 14.5  | 14.5  | 14.5  | 14.5  | 14.5  | 14.5  | 15.1  |        |       |
| 16.6  | 16.6  | 13.9  | 12.1  | 12.4  | 12.7  | 13.0  | 12.7  | 12.7  | 13.0  | 13.9  |        |       |
| 14.2  | 13.9  | 11.5  | 10.1  | 10.1  | 10.7  | 10.9  | 10.7  | 10.9  | 10.9  | 12.1  |        |       |
| 11.2  | 11.2  | 8.9   | 7.4   | 7.4   | 8.6   | 8.6   | 8.6   | 8.9   | 9.2   | 10.1  |        |       |
| 8.6   | 8.3   | 6.2   | 5.0   | 5.0   | 5.9   | 6.2   | 6.5   | 6.8   | 7.1   | 7.7   |        |       |
| 5.0   | 5.0   | 3.3   | 2.1   | 2.4   | 2.7   | 3.6   | 3.6   | 3.6   | 4.1   | 5.0   |        |       |
| 7.5   | 7.3   | 6.0   | 5.0   | 5.0   | 5.0   | 6.0   | 7.0   | 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  |        |       |

'227156  
 ISW-AF-350-LED-E1-SLL-8030-ULG

REPORT NUMBER: P227156  
 CATALOG NUMBER: ISW-AF-3!

**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°     | 580.8 | 580.8 |
| 106.0 | 102.5 | 99.0  | 99.0  | 99.0  | 102.5 | 106.0 | 113.5 | 121.0 | 127.5 | 2.5°   | 503.3 | 503.0 |
| 147.0 | 143.0 | 139.0 | 140.0 | 139.0 | 143.0 | 147.0 | 153.0 | 159.0 | 163.5 | 5°     | 413.0 | 410.4 |
| 189.0 | 186.5 | 184.0 | 184.0 | 184.0 | 186.5 | 189.0 | 193.0 | 197.0 | 199.5 | 7.5°   | 320.1 | 329.9 |
| 226.0 | 224.5 | 223.0 | 225.0 | 223.0 | 224.5 | 226.0 | 229.5 | 233.0 | 235.0 | 10°    | 230.8 | 237.6 |
| 261.0 | 260.5 | 260.0 | 263.0 | 260.0 | 260.5 | 261.0 | 264.0 | 267.0 | 269.0 | 12.5°  | 160.7 | 164.2 |
| 296.0 | 295.0 | 294.0 | 298.0 | 294.0 | 295.0 | 296.0 | 297.5 | 299.0 | 302.0 | 15°    | 110.7 | 117.8 |
| 329.0 | 329.0 | 329.0 | 330.0 | 329.0 | 329.0 | 329.0 | 331.0 | 333.0 | 336.0 | 17.5°  | 86.1  | 87.0  |
| 362.0 | 361.5 | 361.0 | 363.0 | 361.0 | 361.5 | 362.0 | 364.0 | 366.0 | 368.0 | 20°    | 71.0  | 71.6  |
| 393.0 | 393.5 | 394.0 | 396.0 | 394.0 | 393.5 | 393.0 | 397.0 | 401.0 | 402.5 | 22.5°  | 63.0  | 64.2  |
| 426.0 | 426.0 | 426.0 | 429.0 | 426.0 | 426.0 | 426.0 | 429.0 | 432.0 | 433.5 | 25°    | 53.0  | 54.1  |
| 459.0 | 458.0 | 457.0 | 460.0 | 457.0 | 458.0 | 459.0 | 459.5 | 460.0 | 462.0 | 27.5°  | 46.7  | 47.9  |
| 487.0 | 486.0 | 485.0 | 488.0 | 485.0 | 486.0 | 487.0 | 488.0 | 489.0 | 490.0 | 30°    | 42.9  | 43.5  |
| 517.0 | 516.0 | 515.0 | 518.0 | 515.0 | 516.0 | 517.0 | 517.5 | 518.0 | 519.5 | 32.5°  | 39.1  | 39.1  |
| 544.0 | 545.0 | 546.0 | 550.0 | 546.0 | 545.0 | 544.0 | 545.5 | 547.0 | 548.5 | 35°    | 35.8  | 36.1  |
| 571.0 | 571.5 | 572.0 | 575.0 | 572.0 | 571.5 | 571.0 | 572.5 | 574.0 | 574.0 | 37.5°  | 33.4  | 34.0  |
| 593.0 | 592.5 | 592.0 | 595.0 | 592.0 | 592.5 | 593.0 | 593.0 | 593.0 | 593.0 | 40°    | 31.4  | 31.7  |
| 608.0 | 608.0 | 608.0 | 611.0 | 608.0 | 608.0 | 608.0 | 608.5 | 609.0 | 609.5 | 42.5°  | 28.4  | 29.0  |
| 625.0 | 625.0 | 625.0 | 629.0 | 625.0 | 625.0 | 625.0 | 626.0 | 627.0 | 628.5 | 45°    | 25.7  | 26.0  |
| 643.0 | 643.0 | 643.0 | 646.0 | 643.0 | 643.0 | 643.0 | 643.5 | 644.0 | 645.0 | 47.5°  | 24.0  | 24.0  |
| 659.0 | 659.5 | 660.0 | 663.0 | 660.0 | 659.5 | 659.0 | 657.5 | 656.0 | 655.5 | 50°    | 22.8  | 23.1  |
| 669.0 | 669.0 | 669.0 | 673.0 | 669.0 | 669.0 | 669.0 | 667.0 | 665.0 | 663.0 | 52.5°  | 22.2  | 22.5  |
| 676.0 | 677.0 | 678.0 | 681.0 | 678.0 | 677.0 | 676.0 | 676.0 | 676.0 | 674.5 | 55°    | 21.9  | 22.5  |
| 684.0 | 685.5 | 687.0 | 690.0 | 687.0 | 685.5 | 684.0 | 685.0 | 686.0 | 687.0 | 57.5°  | 21.9  | 22.2  |
| 692.0 | 693.5 | 695.0 | 698.0 | 695.0 | 693.5 | 692.0 | 692.0 | 692.0 | 692.5 | 59°    | 21.6  | 21.9  |
| 695.0 | 696.0 | 697.0 | 699.0 | 697.0 | 696.0 | 695.0 | 694.0 | 693.0 | 691.5 | 60°    | 21.6  | 22.2  |
| 697.0 | 697.5 | 698.0 | 700.0 | 698.0 | 697.5 | 697.0 | 696.0 | 695.0 | 693.0 | 62.5°  | 20.7  | 21.3  |
| 700.0 | 702.5 | 705.0 | 707.0 | 705.0 | 702.5 | 700.0 | 699.5 | 699.0 | 698.0 | 65°    | 20.1  | 20.7  |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 67.5°  | 19.2  | 20.1  |
|       |       |       |       |       |       |       |       |       |       | 70°    | 18.3  | 19.2  |
|       |       |       |       |       |       |       |       |       |       | 72.5°  | 17.2  | 18.3  |
|       |       |       |       |       |       |       |       |       |       | 75°    | 16.0  | 16.9  |
|       |       |       |       |       |       |       |       |       |       | 77.5°  | 14.5  | 15.4  |
|       |       |       |       |       |       |       |       |       |       | 80°    | 12.7  | 13.0  |
|       |       |       |       |       |       |       |       |       |       | 82.5°  | 10.7  | 10.7  |
|       |       |       |       |       |       |       |       |       |       | 85°    | 8.0   | 7.1   |
|       |       |       |       |       |       |       |       |       |       | 87.5°  | 4.4   | 4.7   |
|       |       |       |       |       |       |       |       |       |       | 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: P227156

CATALOG NUMBER: ISW-AF-350-LED-E1-

50-LED-E1-SLL-8030-ULG

**tinued):**

**CANDELA DISTRIBUTION (continued):**

| 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  |        | 215°  | 220°  | 225°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 110°   | 102.0 | 108.0 | 114.0 |
| 496.8 | 496.8 | 505.7 | 506.5 | 496.2 | 498.9 | 503.9 | 498.0 | 504.5 | 112.5° | 134.0 | 138.5 | 143.0 |
| 416.9 | 413.3 | 413.6 | 411.3 | 415.4 | 410.7 | 415.7 | 413.9 | 412.5 | 115°   | 168.0 | 171.0 | 174.0 |
| 323.7 | 329.9 | 325.5 | 316.9 | 323.7 | 318.4 | 308.3 | 309.2 | 298.0 | 117.5° | 202.0 | 203.5 | 205.0 |
| 243.2 | 238.8 | 236.4 | 232.3 | 221.3 | 223.4 | 212.1 | 213.9 | 217.8 | 120°   | 237.0 | 240.0 | 243.0 |
| 167.8 | 164.5 | 168.4 | 165.7 | 161.3 | 162.1 | 164.5 | 166.9 | 173.1 | 122.5° | 271.0 | 274.0 | 277.0 |
| 117.8 | 116.3 | 115.4 | 117.2 | 122.2 | 124.9 | 128.7 | 135.8 | 139.4 | 125°   | 305.0 | 307.5 | 310.0 |
| 88.5  | 88.8  | 87.9  | 90.5  | 94.7  | 96.8  | 97.6  | 98.2  | 102.4 | 127.5° | 339.0 | 339.5 | 340.0 |
| 73.1  | 74.3  | 74.0  | 74.9  | 73.7  | 72.5  | 73.4  | 71.6  | 70.1  | 130°   | 370.0 | 371.0 | 372.0 |
| 63.9  | 64.2  | 62.7  | 62.4  | 60.7  | 59.2  | 58.0  | 58.0  | 57.4  | 132.5° | 404.0 | 404.5 | 405.0 |
| 54.1  | 54.4  | 53.0  | 53.0  | 52.7  | 53.6  | 53.0  | 51.8  | 51.5  | 135°   | 435.0 | 436.0 | 437.0 |
| 48.5  | 47.9  | 47.0  | 47.0  | 46.5  | 46.5  | 46.7  | 47.0  | 46.7  | 137.5° | 464.0 | 466.0 | 468.0 |
| 43.5  | 42.9  | 42.6  | 42.9  | 42.6  | 42.9  | 43.2  | 42.9  | 43.2  | 140°   | 491.0 | 494.0 | 497.0 |
| 39.9  | 39.4  | 39.4  | 39.6  | 39.4  | 39.6  | 39.6  | 39.6  | 39.4  | 142.5° | 521.0 | 523.0 | 525.0 |
| 37.0  | 36.4  | 36.4  | 36.4  | 36.1  | 35.5  | 34.9  | 34.0  | 33.1  | 145°   | 550.0 | 550.5 | 551.0 |
| 34.6  | 34.3  | 33.7  | 33.4  | 32.5  | 30.8  | 30.2  | 30.2  | 30.2  | 147.5° | 574.0 | 574.5 | 575.0 |
| 32.5  | 32.0  | 31.7  | 30.5  | 29.3  | 28.7  | 28.7  | 28.7  | 28.7  | 150°   | 593.0 | 593.0 | 593.0 |
| 29.9  | 29.0  | 28.4  | 28.1  | 27.8  | 27.8  | 27.5  | 27.5  | 27.5  | 152.5° | 610.0 | 610.0 | 610.0 |
| 26.6  | 26.3  | 26.3  | 26.6  | 26.6  | 26.6  | 26.6  | 26.3  | 26.6  | 155°   | 630.0 | 629.0 | 628.0 |
| 24.6  | 24.6  | 24.9  | 25.1  | 25.4  | 25.7  | 26.0  | 25.7  | 26.0  | 157.5° | 646.0 | 645.5 | 645.0 |
| 23.7  | 23.7  | 23.7  | 24.3  | 24.6  | 24.9  | 25.4  | 25.4  | 25.4  | 160°   | 655.0 | 655.0 | 655.0 |
| 23.1  | 23.1  | 23.4  | 23.7  | 24.0  | 24.3  | 24.6  | 24.9  | 25.1  | 162.5° | 661.0 | 662.0 | 663.0 |
| 22.8  | 23.1  | 22.8  | 23.1  | 23.4  | 24.0  | 24.3  | 24.3  | 24.6  | 165°   | 673.0 | 673.0 | 673.0 |
| 22.8  | 22.8  | 22.8  | 22.8  | 23.4  | 23.7  | 23.4  | 23.7  | 24.0  | 167.5° | 688.0 | 686.5 | 685.0 |
| 22.8  | 22.8  | 22.5  | 22.8  | 23.1  | 23.4  | 23.1  | 23.1  | 23.7  | 170°   | 693.0 | 692.0 | 691.0 |
| 22.5  | 22.8  | 22.5  | 22.5  | 22.8  | 23.1  | 22.8  | 23.1  | 23.4  | 172.5° | 690.0 | 690.0 | 690.0 |
| 21.9  | 22.2  | 21.9  | 22.2  | 22.2  | 22.5  | 22.5  | 22.5  | 22.8  | 175°   | 691.0 | 690.5 | 690.0 |
| 21.3  | 21.3  | 21.3  | 21.6  | 21.6  | 21.9  | 21.9  | 22.2  | 21.9  | 177.5° | 697.0 | 696.0 | 695.0 |
| 20.7  | 20.7  | 20.7  | 21.0  | 21.0  | 21.3  | 21.6  | 21.3  | 21.3  | 180°   | 700.0 | 700.0 | 700.0 |
| 20.1  | 19.8  | 19.5  | 19.8  | 20.1  | 20.1  | 20.4  | 20.1  | 20.4  |        |       |       |       |
| 19.2  | 18.9  | 18.6  | 18.6  | 18.9  | 18.9  | 19.2  | 18.9  | 18.9  |        |       |       |       |
| 17.8  | 17.8  | 17.2  | 17.2  | 17.2  | 17.2  | 17.5  | 17.2  | 16.9  |        |       |       |       |
| 16.0  | 16.0  | 15.4  | 15.4  | 15.4  | 15.4  | 15.1  | 15.1  | 15.1  |        |       |       |       |
| 13.3  | 13.6  | 13.6  | 13.3  | 13.3  | 13.0  | 13.0  | 12.7  | 12.4  |        |       |       |       |
| 10.1  | 10.7  | 10.9  | 10.9  | 10.9  | 10.9  | 10.9  | 10.4  | 9.8   |        |       |       |       |
| 7.1   | 8.0   | 8.9   | 8.9   | 8.6   | 8.6   | 8.6   | 7.7   | 6.8   |        |       |       |       |
| 4.4   | 5.3   | 5.6   | 6.2   | 5.3   | 5.0   | 5.0   | 4.4   | 4.1   |        |       |       |       |
| 7.0   | 7.0   | 7.6   | 8.3   | 9.9   | 9.9   | 10.2  | 8.6   | 7.3   |        |       |       |       |
| 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: P227156

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-8030-

SLL-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°     | 580.8 | 580.8 | 580.8 | 580.8 |
| 145.5 | 148.0 | 149.0 | 150.0 | 149.5 | 149.0 | 148.0 | 147.0 | 2.5°   | 498.9 | 509.8 | 511.3 | 512.8 |
| 176.5 | 179.0 | 180.5 | 182.0 | 180.5 | 179.0 | 178.0 | 177.0 | 5°     | 410.1 | 421.0 | 414.8 | 417.5 |
| 208.0 | 211.0 | 213.0 | 215.0 | 212.5 | 210.0 | 209.0 | 208.0 | 7.5°   | 299.4 | 292.3 | 301.5 | 307.1 |
| 244.5 | 246.0 | 248.0 | 250.0 | 247.5 | 245.0 | 244.0 | 243.0 | 10°    | 218.7 | 226.9 | 230.5 | 237.0 |
| 278.0 | 279.0 | 281.0 | 283.0 | 280.5 | 278.0 | 277.0 | 276.0 | 12.5°  | 181.4 | 186.7 | 193.2 | 203.6 |
| 311.5 | 313.0 | 314.0 | 315.0 | 312.5 | 310.0 | 310.0 | 310.0 | 15°    | 147.1 | 150.9 | 159.2 | 169.2 |
| 342.5 | 345.0 | 345.5 | 346.0 | 346.0 | 346.0 | 345.5 | 345.0 | 17.5°  | 107.1 | 112.7 | 118.1 | 126.3 |
| 374.5 | 377.0 | 379.0 | 381.0 | 381.0 | 381.0 | 380.0 | 379.0 | 20°    | 71.9  | 74.3  | 80.8  | 84.6  |
| 408.0 | 411.0 | 413.5 | 416.0 | 415.0 | 414.0 | 414.0 | 414.0 | 22.5°  | 57.7  | 58.6  | 59.8  | 63.0  |
| 440.0 | 443.0 | 445.5 | 448.0 | 447.5 | 447.0 | 448.5 | 450.0 | 25°    | 51.8  | 52.4  | 53.3  | 54.4  |
| 470.5 | 473.0 | 474.0 | 475.0 | 475.5 | 476.0 | 478.5 | 481.0 | 27.5°  | 47.0  | 47.3  | 48.2  | 48.8  |
| 498.5 | 500.0 | 501.0 | 502.0 | 503.0 | 504.0 | 506.5 | 509.0 | 30°    | 42.9  | 42.6  | 42.9  | 43.8  |
| 526.0 | 527.0 | 530.0 | 533.0 | 533.0 | 533.0 | 533.5 | 534.0 | 32.5°  | 38.5  | 38.5  | 39.1  | 39.1  |
| 553.5 | 556.0 | 559.0 | 562.0 | 561.5 | 561.0 | 559.5 | 558.0 | 35°    | 33.1  | 32.8  | 33.4  | 34.3  |
| 577.5 | 580.0 | 582.5 | 585.0 | 585.5 | 586.0 | 584.5 | 583.0 | 37.5°  | 30.5  | 30.8  | 31.4  | 32.0  |
| 595.0 | 597.0 | 598.5 | 600.0 | 601.5 | 603.0 | 604.5 | 606.0 | 40°    | 29.0  | 29.3  | 29.9  | 30.5  |
| 610.5 | 611.0 | 612.5 | 614.0 | 616.0 | 618.0 | 620.5 | 623.0 | 42.5°  | 27.5  | 28.1  | 28.7  | 29.6  |
| 627.0 | 626.0 | 628.5 | 631.0 | 633.5 | 636.0 | 637.0 | 638.0 | 45°    | 26.6  | 27.2  | 28.1  | 29.0  |
| 644.5 | 644.0 | 646.0 | 648.0 | 649.0 | 650.0 | 650.0 | 650.0 | 47.5°  | 26.3  | 26.9  | 27.8  | 29.0  |
| 656.5 | 658.0 | 661.0 | 664.0 | 662.5 | 661.0 | 660.5 | 660.0 | 50°    | 25.7  | 26.6  | 27.5  | 28.7  |
| 665.0 | 667.0 | 669.0 | 671.0 | 670.5 | 670.0 | 669.0 | 668.0 | 52.5°  | 25.7  | 26.3  | 27.2  | 28.7  |
| 672.5 | 672.0 | 674.5 | 677.0 | 678.5 | 680.0 | 679.0 | 678.0 | 55°    | 24.9  | 25.7  | 26.6  | 28.1  |
| 681.5 | 678.0 | 681.0 | 684.0 | 686.0 | 688.0 | 688.0 | 688.0 | 57.5°  | 24.3  | 24.9  | 26.0  | 27.8  |
| 688.5 | 686.0 | 687.5 | 689.0 | 691.5 | 694.0 | 695.0 | 696.0 | 59°    | 24.0  | 24.6  | 25.7  | 27.5  |
| 689.5 | 689.0 | 690.5 | 692.0 | 693.0 | 694.0 | 695.0 | 696.0 | 60°    | 23.4  | 24.3  | 25.4  | 27.2  |
| 690.0 | 690.0 | 692.5 | 695.0 | 695.5 | 696.0 | 695.0 | 694.0 | 62.5°  | 22.8  | 23.7  | 24.9  | 26.6  |
| 694.5 | 694.0 | 696.5 | 699.0 | 700.0 | 701.0 | 699.5 | 698.0 | 65°    | 21.9  | 23.1  | 24.3  | 25.4  |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 67.5°  | 21.3  | 21.9  | 23.1  | 24.3  |
|       |       |       |       |       |       |       |       | 70°    | 20.1  | 20.7  | 21.6  | 22.5  |
|       |       |       |       |       |       |       |       | 72.5°  | 18.6  | 18.9  | 19.5  | 20.4  |
|       |       |       |       |       |       |       |       | 75°    | 16.6  | 16.9  | 17.2  | 18.0  |
|       |       |       |       |       |       |       |       | 77.5°  | 14.5  | 14.5  | 14.8  | 16.0  |
|       |       |       |       |       |       |       |       | 80°    | 12.1  | 12.1  | 12.4  | 13.0  |
|       |       |       |       |       |       |       |       | 82.5°  | 9.2   | 9.2   | 9.8   | 10.7  |
|       |       |       |       |       |       |       |       | 85°    | 6.5   | 6.2   | 7.1   | 7.7   |
|       |       |       |       |       |       |       |       | 87.5°  | 3.8   | 3.6   | 3.8   | 3.8   |
|       |       |       |       |       |       |       |       | 90°    | 7.3   | 7.9   | 8.6   | 9.6   |
|       |       |       |       |       |       |       |       | 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: P227156

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-8030-ULG

ULG

**CANDELA DISTRIBUTION (continued):**

| 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  |        | 270°  | 275°  | 280°  | 285°  | 290°  |
|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 110°   | 117.0 | 116.0 | 117.5 | 119.0 | 120.0 |
| 518.7 | 515.7 | 518.1 | 527.3 | 530.5 | 534.7 | 548.6 | 112.5° | 147.0 | 147.0 | 148.0 | 149.0 | 149.5 |
| 424.0 | 427.8 | 424.0 | 442.6 | 443.5 | 455.9 | 461.0 | 115°   | 178.0 | 177.0 | 178.0 | 179.0 | 180.5 |
| 311.6 | 316.6 | 324.9 | 337.3 | 340.9 | 358.6 | 373.7 | 117.5° | 209.0 | 208.0 | 209.0 | 210.0 | 212.5 |
| 243.2 | 249.7 | 261.3 | 269.0 | 276.6 | 287.0 | 299.1 | 120°   | 243.0 | 243.0 | 244.0 | 245.0 | 247.5 |
| 216.0 | 222.8 | 232.9 | 242.6 | 253.6 | 261.6 | 271.6 | 122.5° | 277.0 | 276.0 | 277.0 | 278.0 | 280.5 |
| 180.5 | 191.1 | 200.9 | 213.6 | 222.8 | 237.3 | 249.1 | 125°   | 310.0 | 310.0 | 310.0 | 310.0 | 312.5 |
| 137.9 | 152.7 | 162.4 | 177.8 | 191.7 | 204.5 | 220.4 | 127.5° | 347.0 | 345.0 | 345.5 | 346.0 | 346.0 |
| 95.9  | 107.4 | 119.8 | 136.4 | 154.4 | 171.9 | 193.2 | 130°   | 380.0 | 379.0 | 380.0 | 381.0 | 381.0 |
| 66.0  | 72.2  | 81.7  | 98.8  | 117.5 | 142.6 | 165.7 | 132.5° | 415.0 | 414.0 | 414.0 | 414.0 | 415.0 |
| 56.2  | 58.6  | 62.1  | 70.4  | 86.1  | 113.6 | 139.1 | 135°   | 451.0 | 450.0 | 448.5 | 447.0 | 447.5 |
| 50.0  | 51.8  | 54.1  | 58.3  | 66.6  | 85.5  | 113.6 | 137.5° | 482.0 | 481.0 | 478.5 | 476.0 | 475.5 |
| 45.9  | 47.9  | 50.3  | 53.3  | 57.7  | 70.7  | 91.7  | 140°   | 511.0 | 509.0 | 506.5 | 504.0 | 503.0 |
| 40.2  | 41.7  | 43.8  | 47.0  | 50.3  | 60.7  | 81.1  | 142.5° | 536.0 | 534.0 | 533.5 | 533.0 | 533.0 |
| 35.5  | 37.3  | 39.9  | 42.3  | 45.6  | 53.9  | 73.7  | 145°   | 560.0 | 558.0 | 559.5 | 561.0 | 561.5 |
| 33.1  | 34.9  | 37.3  | 39.4  | 41.7  | 48.5  | 68.3  | 147.5° | 585.0 | 583.0 | 584.5 | 586.0 | 585.5 |
| 31.7  | 33.4  | 35.8  | 37.6  | 39.1  | 46.7  | 66.3  | 150°   | 610.0 | 606.0 | 604.5 | 603.0 | 601.5 |
| 30.8  | 32.8  | 34.9  | 36.1  | 39.1  | 47.6  | 61.2  | 152.5° | 628.0 | 623.0 | 620.5 | 618.0 | 616.0 |
| 30.5  | 32.5  | 34.9  | 37.0  | 42.9  | 45.0  | 58.0  | 155°   | 641.0 | 638.0 | 637.0 | 636.0 | 633.5 |
| 30.8  | 32.5  | 35.5  | 41.4  | 41.7  | 42.6  | 54.4  | 157.5° | 655.0 | 650.0 | 650.0 | 650.0 | 649.0 |
| 30.8  | 33.4  | 39.6  | 43.2  | 39.6  | 40.2  | 51.2  | 160°   | 666.0 | 660.0 | 660.5 | 661.0 | 662.5 |
| 31.1  | 34.6  | 41.1  | 40.2  | 38.5  | 37.6  | 47.6  | 162.5° | 674.0 | 668.0 | 669.0 | 670.0 | 670.5 |
| 31.1  | 34.0  | 39.4  | 37.9  | 35.5  | 35.8  | 43.5  | 165°   | 682.0 | 678.0 | 679.0 | 680.0 | 678.5 |
| 30.2  | 34.0  | 37.9  | 34.3  | 32.5  | 34.0  | 39.9  | 167.5° | 694.0 | 688.0 | 688.0 | 688.0 | 686.0 |
| 29.6  | 34.9  | 33.7  | 31.7  | 31.7  | 33.1  | 38.2  | 170°   | 701.0 | 696.0 | 695.0 | 694.0 | 691.5 |
| 29.3  | 35.8  | 32.0  | 30.8  | 30.8  | 32.8  | 37.3  | 172.5° | 701.0 | 696.0 | 695.0 | 694.0 | 693.0 |
| 28.4  | 33.4  | 29.3  | 28.7  | 29.6  | 31.1  | 36.1  | 175°   | 699.0 | 694.0 | 695.0 | 696.0 | 695.5 |
| 26.6  | 27.8  | 26.9  | 26.9  | 28.1  | 29.9  | 35.5  | 177.5° | 702.0 | 698.0 | 699.5 | 701.0 | 700.0 |
| 24.6  | 25.1  | 25.1  | 25.4  | 26.6  | 28.1  | 36.1  | 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |
| 22.8  | 22.8  | 23.4  | 23.7  | 24.6  | 26.6  | 34.6  |        |       |       |       |       |       |
| 20.7  | 21.0  | 21.0  | 21.6  | 22.2  | 24.3  | 33.4  |        |       |       |       |       |       |
| 18.3  | 18.3  | 18.9  | 18.9  | 19.8  | 21.9  | 29.9  |        |       |       |       |       |       |
| 16.0  | 16.0  | 16.0  | 16.3  | 16.9  | 18.9  | 24.6  |        |       |       |       |       |       |
| 13.3  | 13.3  | 13.3  | 13.6  | 13.9  | 15.7  | 18.6  |        |       |       |       |       |       |
| 10.7  | 10.4  | 10.1  | 10.1  | 10.7  | 12.1  | 14.5  |        |       |       |       |       |       |
| 7.4   | 7.4   | 7.1   | 7.1   | 7.1   | 8.0   | 9.8   |        |       |       |       |       |       |
| 4.1   | 3.6   | 3.8   | 4.1   | 3.8   | 4.4   | 5.3   |        |       |       |       |       |       |
| 9.3   | 9.6   | 8.9   | 8.2   | 8.2   | 8.2   | 9.3   |        |       |       |       |       |       |
| 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: P227156

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-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°     | 580.8 | 580.8 | 580.8 | 580.8 | 580.8 | 580.8  |
| 150.0 | 149.0 | 148.0 | 145.5 | 143.0 | 138.5 | 2.5°   | 546.8 | 554.5 | 566.6 | 569.0 | 578.7 | 585.5  |
| 182.0 | 180.5 | 179.0 | 176.5 | 174.0 | 171.0 | 5°     | 463.3 | 481.7 | 488.2 | 500.9 | 523.1 | 534.4  |
| 215.0 | 213.0 | 211.0 | 208.0 | 205.0 | 203.5 | 7.5°   | 382.3 | 396.2 | 411.9 | 432.3 | 448.6 | 467.8  |
| 250.0 | 248.0 | 246.0 | 244.5 | 243.0 | 240.0 | 10°    | 314.5 | 334.3 | 354.8 | 371.3 | 394.1 | 417.2  |
| 283.0 | 281.0 | 279.0 | 278.0 | 277.0 | 274.0 | 12.5°  | 279.3 | 290.3 | 310.4 | 333.8 | 362.2 | 387.9  |
| 315.0 | 314.0 | 313.0 | 311.5 | 310.0 | 307.5 | 15°    | 261.0 | 274.0 | 295.6 | 320.4 | 350.6 | 382.6  |
| 346.0 | 345.5 | 345.0 | 342.5 | 340.0 | 339.5 | 17.5°  | 238.2 | 258.9 | 283.5 | 319.0 | 358.0 | 402.4  |
| 381.0 | 379.0 | 377.0 | 374.5 | 372.0 | 371.0 | 20°    | 215.7 | 240.8 | 273.1 | 319.8 | 374.0 | 431.7  |
| 416.0 | 413.5 | 411.0 | 408.0 | 405.0 | 404.5 | 22.5°  | 195.9 | 225.8 | 266.6 | 325.2 | 394.4 | 471.3  |
| 448.0 | 445.5 | 443.0 | 440.0 | 437.0 | 436.0 | 25°    | 172.5 | 212.4 | 261.6 | 336.1 | 425.8 | 524.6  |
| 475.0 | 474.0 | 473.0 | 470.5 | 468.0 | 466.0 | 27.5°  | 153.9 | 199.7 | 254.2 | 345.6 | 454.5 | 575.8  |
| 502.0 | 501.0 | 500.0 | 498.5 | 497.0 | 494.0 | 30°    | 133.1 | 184.9 | 243.8 | 348.8 | 489.4 | 617.8  |
| 533.0 | 530.0 | 527.0 | 526.0 | 525.0 | 523.0 | 32.5°  | 116.6 | 171.0 | 232.0 | 345.9 | 505.1 | 647.1  |
| 562.0 | 559.0 | 556.0 | 553.5 | 551.0 | 550.5 | 35°    | 108.6 | 161.0 | 221.9 | 335.5 | 518.1 | 678.7  |
| 585.0 | 582.5 | 580.0 | 577.5 | 575.0 | 574.5 | 37.5°  | 103.3 | 150.0 | 212.1 | 318.4 | 532.9 | 710.1  |
| 600.0 | 598.5 | 597.0 | 595.0 | 593.0 | 593.0 | 40°    | 96.5  | 141.4 | 204.2 | 305.9 | 544.4 | 736.1  |
| 614.0 | 612.5 | 611.0 | 610.5 | 610.0 | 610.0 | 42.5°  | 90.2  | 133.7 | 197.9 | 295.0 | 547.4 | 759.5  |
| 631.0 | 628.5 | 626.0 | 627.0 | 628.0 | 629.0 | 45°    | 84.9  | 129.0 | 193.2 | 295.6 | 549.4 | 792.1  |
| 648.0 | 646.0 | 644.0 | 644.5 | 645.0 | 645.5 | 47.5°  | 80.8  | 124.6 | 191.4 | 305.6 | 571.3 | 837.3  |
| 664.0 | 661.0 | 658.0 | 656.5 | 655.0 | 655.0 | 50°    | 76.9  | 120.7 | 188.5 | 325.2 | 606.6 | 898.6  |
| 671.0 | 669.0 | 667.0 | 665.0 | 663.0 | 662.0 | 52.5°  | 72.5  | 115.4 | 184.6 | 345.3 | 645.0 | 980.5  |
| 677.0 | 674.5 | 672.0 | 672.5 | 673.0 | 673.0 | 55°    | 66.6  | 108.3 | 180.5 | 362.2 | 697.4 | 1080.3 |
| 684.0 | 681.0 | 678.0 | 681.5 | 685.0 | 686.5 | 57.5°  | 57.4  | 100.0 | 177.8 | 370.7 | 729.6 | 1137.7 |
| 689.0 | 687.5 | 686.0 | 688.5 | 691.0 | 692.0 | 59°    | 52.7  | 92.0  | 176.3 | 366.6 | 738.2 | 1147.4 |
| 692.0 | 690.5 | 689.0 | 689.5 | 690.0 | 690.0 | 60°    | 50.0  | 87.3  | 174.0 | 361.6 | 740.6 | 1141.2 |
| 695.0 | 692.5 | 690.0 | 690.0 | 690.0 | 690.5 | 62.5°  | 46.5  | 76.0  | 164.2 | 336.4 | 707.4 | 1066.1 |
| 699.0 | 696.5 | 694.0 | 694.5 | 695.0 | 696.0 | 65°    | 47.3  | 71.9  | 142.0 | 286.4 | 631.4 | 919.3  |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 67.5°  | 48.5  | 70.1  | 122.8 | 231.4 | 503.3 | 760.7  |
|       |       |       |       |       |       | 70°    | 47.6  | 69.2  | 111.5 | 184.0 | 377.0 | 569.6  |
|       |       |       |       |       |       | 72.5°  | 46.5  | 65.4  | 96.8  | 147.9 | 239.1 | 398.8  |
|       |       |       |       |       |       | 75°    | 41.1  | 55.0  | 76.0  | 101.5 | 150.9 | 290.6  |
|       |       |       |       |       |       | 77.5°  | 32.3  | 42.3  | 53.9  | 63.0  | 76.6  | 205.0  |
|       |       |       |       |       |       | 80°    | 23.7  | 30.8  | 35.2  | 37.9  | 42.6  | 140.0  |
|       |       |       |       |       |       | 82.5°  | 16.9  | 20.7  | 22.5  | 24.0  | 28.4  | 104.7  |
|       |       |       |       |       |       | 85°    | 12.7  | 14.5  | 15.7  | 15.7  | 19.2  | 74.0   |
|       |       |       |       |       |       | 87.5°  | 7.1   | 7.4   | 7.4   | 8.0   | 9.5   | 20.1   |
|       |       |       |       |       |       | 90°    | 10.1  | 10.1  | 9.8   | 9.6   | 8.5   | 7.2    |
|       |       |       |       |       |       | 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: P227156

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-8030-ULG

**CANDELA DISTRIBUTION (continued):**

| 355°   | 359°   | 360°   |        | 325°  | 330°  | 335°  | 340°  | 345°  | 350°  | 355°  |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 580.8  | 580.8  | 580.8  | 110°   | 102.0 | 94.5  | 87.0  | 80.5  | 74.0  | 71.0  | 68.0  |
| 593.2  | 597.7  | 601.2  | 112.5° | 134.0 | 127.5 | 121.0 | 113.5 | 106.0 | 102.5 | 99.0  |
| 551.5  | 562.5  | 564.5  | 115°   | 168.0 | 163.5 | 159.0 | 153.0 | 147.0 | 143.0 | 139.0 |
| 489.1  | 506.8  | 513.1  | 117.5° | 202.0 | 199.5 | 197.0 | 193.0 | 189.0 | 186.5 | 184.0 |
| 443.2  | 462.5  | 469.0  | 120°   | 237.0 | 235.0 | 233.0 | 229.5 | 226.0 | 224.5 | 223.0 |
| 418.1  | 440.6  | 447.7  | 122.5° | 271.0 | 269.0 | 267.0 | 264.0 | 261.0 | 260.5 | 260.0 |
| 418.7  | 445.6  | 455.9  | 125°   | 305.0 | 302.0 | 299.0 | 297.5 | 296.0 | 295.0 | 294.0 |
| 445.9  | 476.7  | 489.4  | 127.5° | 339.0 | 336.0 | 333.0 | 331.0 | 329.0 | 329.0 | 329.0 |
| 492.6  | 537.3  | 546.8  | 130°   | 370.0 | 368.0 | 366.0 | 364.0 | 362.0 | 361.5 | 361.0 |
| 556.0  | 599.7  | 613.9  | 132.5° | 404.0 | 402.5 | 401.0 | 397.0 | 393.0 | 393.5 | 394.0 |
| 615.4  | 673.4  | 684.4  | 135°   | 435.0 | 433.5 | 432.0 | 429.0 | 426.0 | 426.0 | 426.0 |
| 674.0  | 731.4  | 741.2  | 137.5° | 464.0 | 462.0 | 460.0 | 459.5 | 459.0 | 458.0 | 457.0 |
| 719.3  | 779.3  | 787.6  | 140°   | 491.0 | 490.0 | 489.0 | 488.0 | 487.0 | 486.0 | 485.0 |
| 762.8  | 830.5  | 839.7  | 142.5° | 521.0 | 519.5 | 518.0 | 517.5 | 517.0 | 516.0 | 515.0 |
| 811.3  | 886.2  | 896.8  | 145°   | 550.0 | 548.5 | 547.0 | 545.5 | 544.0 | 545.0 | 546.0 |
| 855.1  | 940.9  | 947.7  | 147.5° | 574.0 | 574.0 | 574.0 | 572.5 | 571.0 | 571.5 | 572.0 |
| 903.6  | 985.6  | 987.3  | 150°   | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 592.5 | 592.0 |
| 943.3  | 1018.7 | 1019.3 | 152.5° | 610.0 | 609.5 | 609.0 | 608.5 | 608.0 | 608.0 | 608.0 |
| 981.7  | 1049.8 | 1050.1 | 155°   | 630.0 | 628.5 | 627.0 | 626.0 | 625.0 | 625.0 | 625.0 |
| 1022.0 | 1083.8 | 1079.4 | 157.5° | 646.0 | 645.0 | 644.0 | 643.5 | 643.0 | 643.0 | 643.0 |
| 1085.6 | 1124.0 | 1128.5 | 160°   | 655.0 | 655.5 | 656.0 | 657.5 | 659.0 | 659.5 | 660.0 |
| 1182.3 | 1216.7 | 1221.7 | 162.5° | 661.0 | 663.0 | 665.0 | 667.0 | 669.0 | 669.0 | 669.0 |
| 1294.8 | 1342.4 | 1335.6 | 165°   | 673.0 | 674.5 | 676.0 | 676.0 | 676.0 | 677.0 | 678.0 |
| 1342.4 | 1396.8 | 1402.5 | 167.5° | 688.0 | 687.0 | 686.0 | 685.0 | 684.0 | 685.5 | 687.0 |
| 1334.4 | 1408.7 | 1418.1 | 170°   | 693.0 | 692.5 | 692.0 | 692.0 | 692.0 | 693.5 | 695.0 |
| 1321.7 | 1405.1 | 1416.7 | 172.5° | 690.0 | 691.5 | 693.0 | 694.0 | 695.0 | 696.0 | 697.0 |
| 1249.5 | 1368.1 | 1386.2 | 175°   | 691.0 | 693.0 | 695.0 | 696.0 | 697.0 | 697.5 | 698.0 |
| 1128.2 | 1291.5 | 1317.0 | 177.5° | 697.0 | 698.0 | 699.0 | 699.5 | 700.0 | 702.5 | 705.0 |
| 972.3  | 1177.0 | 1197.4 | 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |
| 758.6  | 956.6  | 974.0  |        |       |       |       |       |       |       |       |
| 504.2  | 656.9  | 687.0  |        |       |       |       |       |       |       |       |
| 320.4  | 423.7  | 418.1  |        |       |       |       |       |       |       |       |
| 236.4  | 275.5  | 275.8  |        |       |       |       |       |       |       |       |
| 171.6  | 189.1  | 187.0  |        |       |       |       |       |       |       |       |
| 132.8  | 115.4  | 115.1  |        |       |       |       |       |       |       |       |
| 46.5   | 40.8   | 39.9   |        |       |       |       |       |       |       |       |
| 20.1   | 16.9   | 17.2   |        |       |       |       |       |       |       |       |
| 5.9    | 5.9    | 6.2    |        |       |       |       |       |       |       |       |
| 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)