

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: P226899

Luminaire Tested: **ISW-AF-350-LED-E1-SL3-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)-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-SL3-7030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3830.6 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - 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

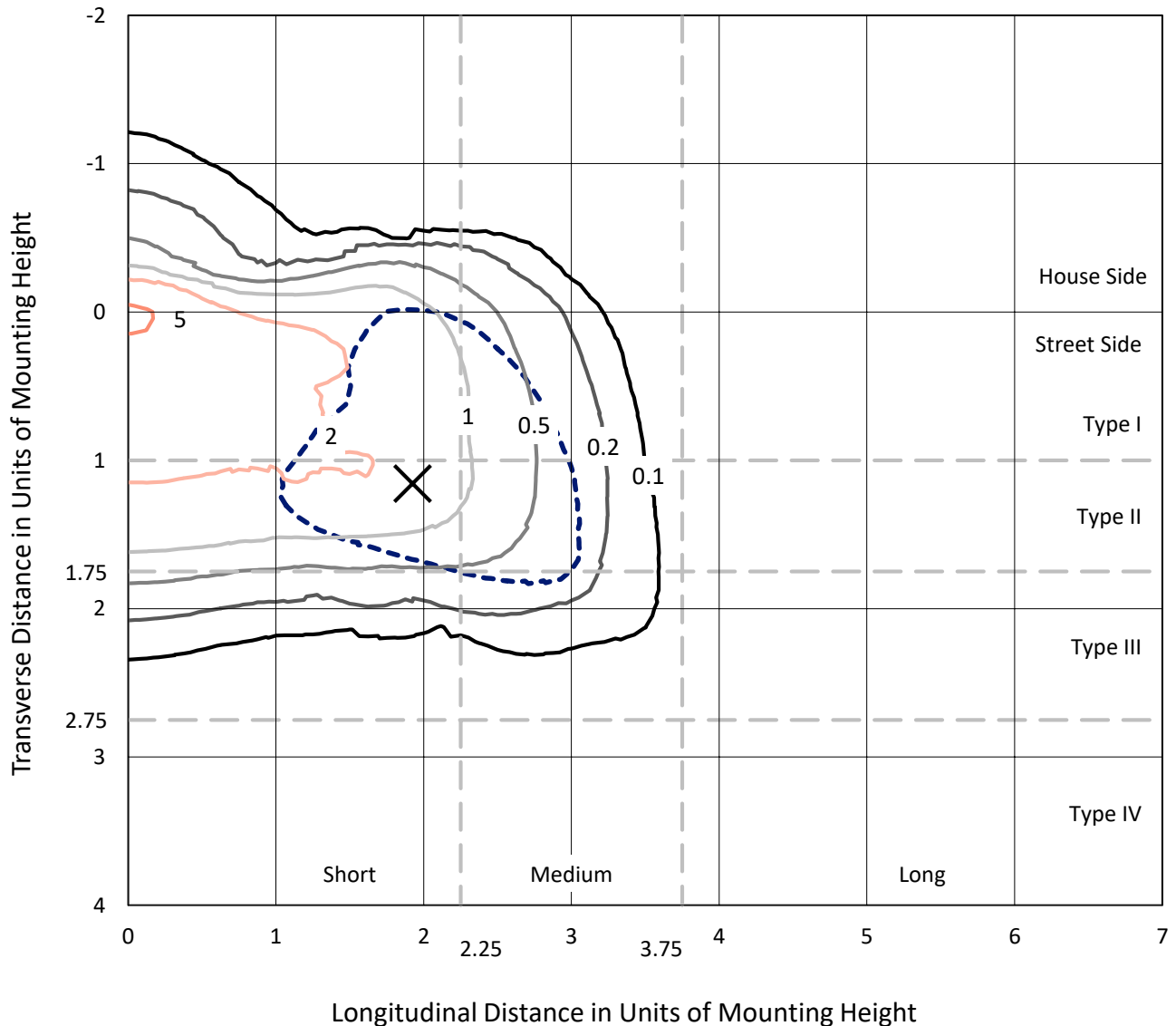


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Iso-Footcandle Lines of Horizontal Illumination

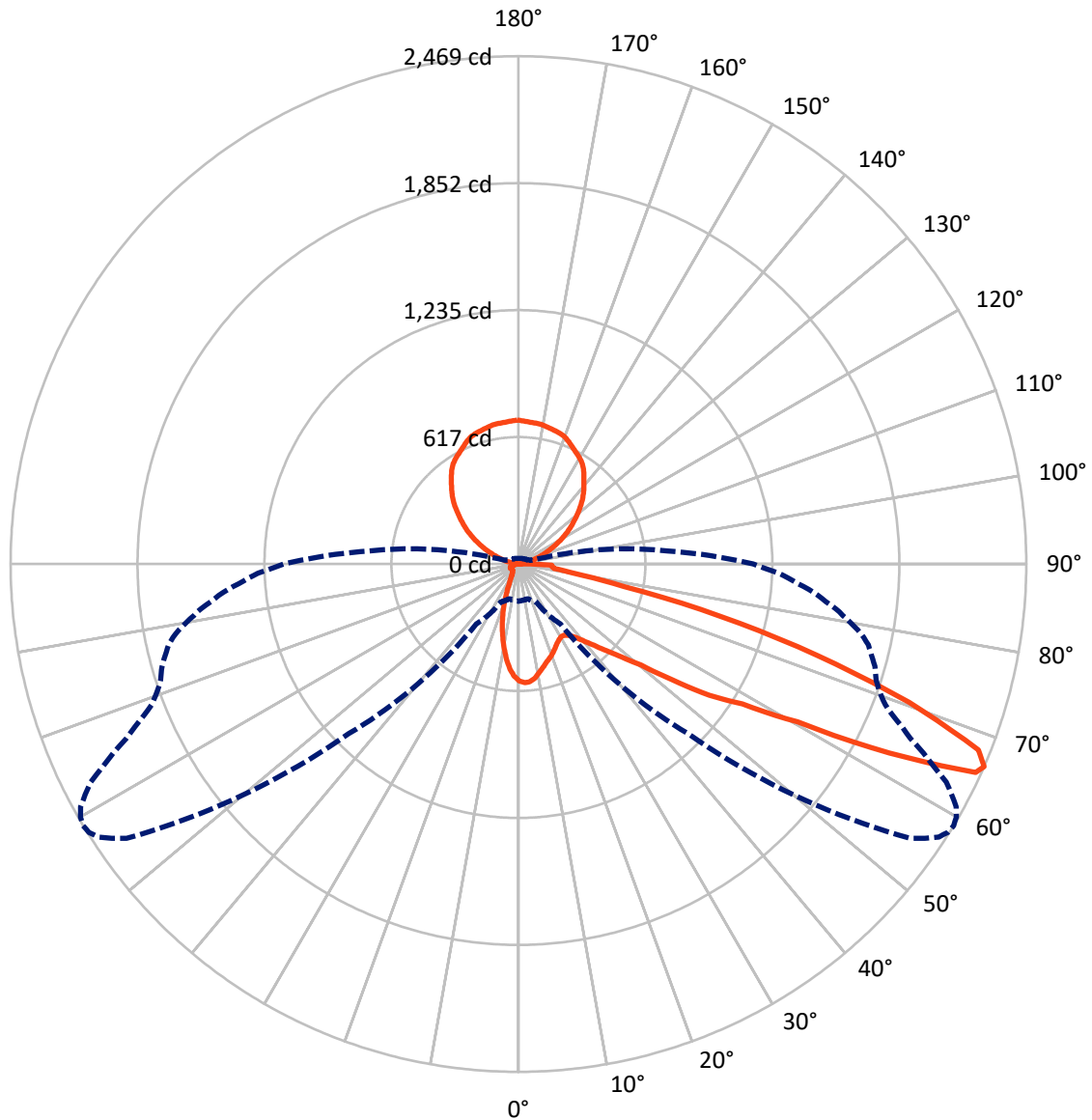
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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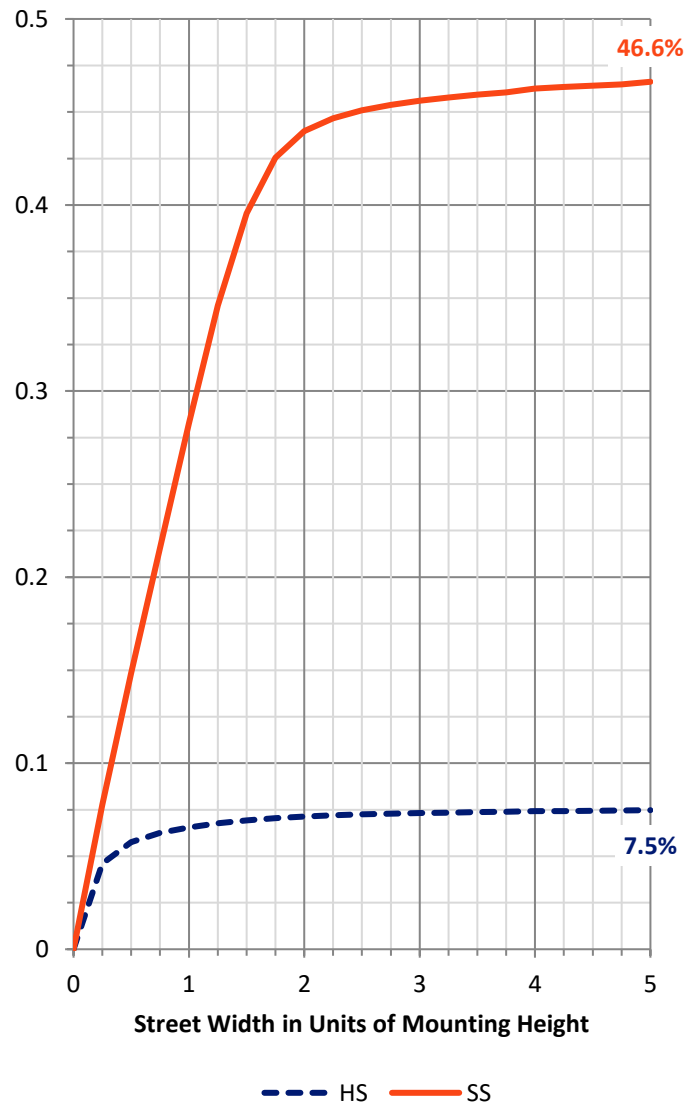
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 291.1 | 867.7 | 1158.8 |
| | % Fixture | 7.6 | 22.7 | 30.3 |
| Street Side | Lumens | 1803.5 | 868.3 | 2671.8 |
| | % Fixture | 47.1 | 22.7 | 69.7 |
| Total | Lumens | 2094.6 | 1736.0 | 3830.6 |
| | % Fixture | 54.7 | 45.3 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.5 | 1.3 |
| 10°-20° | 102.5 | 2.7 |
| 20°-30° | 128.5 | 3.4 |
| 30°-40° | 175.8 | 4.6 |
| 40°-50° | 282.9 | 7.4 |
| 50°-60° | 491.5 | 12.8 |
| 60°-70° | 597.2 | 15.6 |
| 70°-80° | 222.8 | 5.8 |
| 80°-90° | 44.8 | 1.2 |
| 90°-100° | 10.2 | 0.3 |
| 100°-110° | 57.4 | 1.5 |
| 110°-120° | 166.1 | 4.3 |
| 120°-130° | 273.2 | 7.1 |
| 130°-140° | 336.8 | 8.8 |
| 140°-150° | 344.6 | 9.0 |
| 150°-160° | 290.3 | 7.6 |
| 160°-170° | 191.2 | 5.0 |
| 170°-180° | 66.3 | 1.7 |
| 0°-90° | 2094.6 | 54.7 |
| 0°-180° | 3830.6 | 100.0 |



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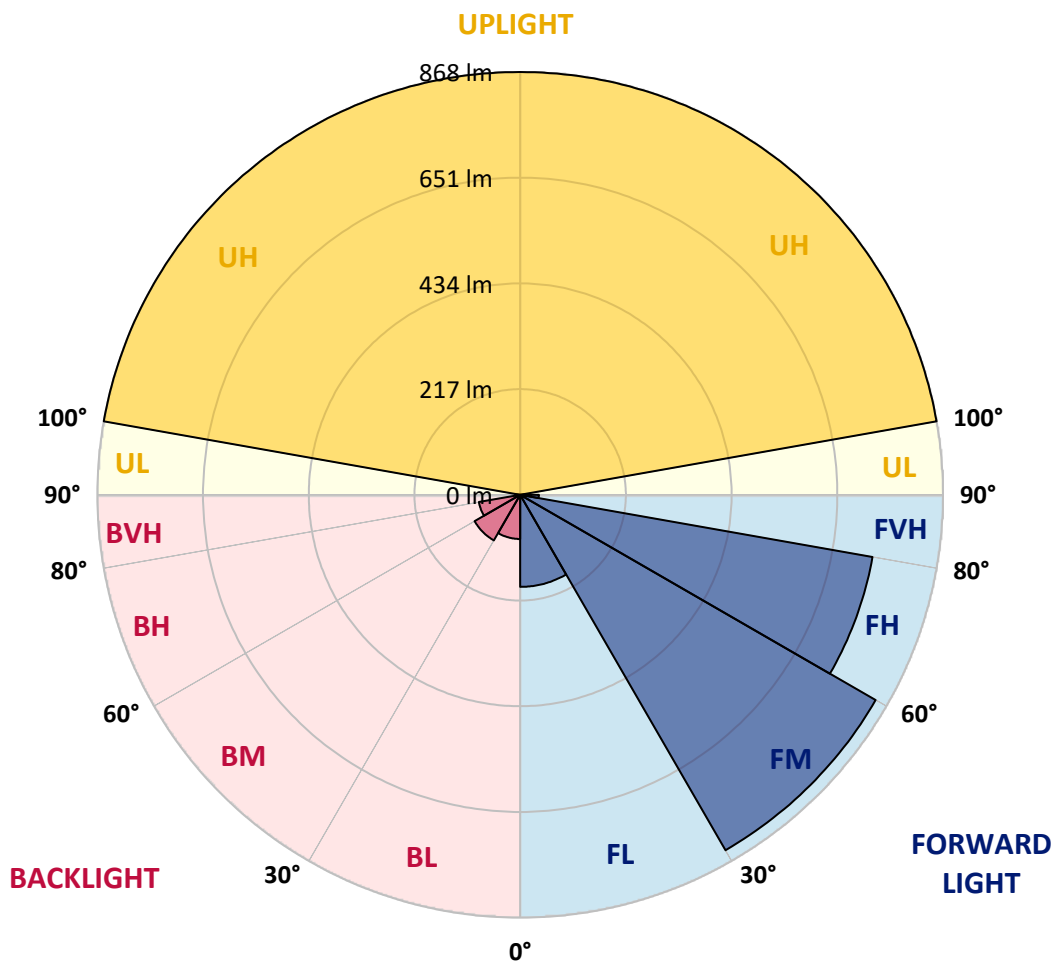
CATALOG NUMBER: ISW-AF-350-LED-E1-SL3-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|---------|---------|
| | | | B | U | G |
| FL (0°-30°) | 188.9 | 4.9 | | | |
| FM (30°-60°) | 842.2 | 22.0 | | | |
| FH (60°-80°) | 734.1 | 19.2 | | | G1/1800 |
| FVH (80°-90°) | 38.3 | 1.0 | | | G1/100 |
| BL (0°-30°) | 90.6 | 2.4 | B0/110 | | |
| BM (30°-60°) | 108.0 | 2.8 | B0/220 | | |
| BH (60°-80°) | 85.9 | 2.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 6.5 | 0.2 | | | G0/10 |
| UL (90°-100°) | 10.2 | 0.3 | | U2/50 | |
| UH (100°-180°) | 867.7 | 22.7 | | U4/1000 | |

BUG Rating: B0-U5-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 |
| 2.5° | 583.8 | 581.9 | 585.4 | 584.1 | 585.1 | 580.3 | 579.3 | 578.3 | 579.0 | 578.0 | 578.0 |
| 5° | 570.0 | 569.0 | 573.2 | 575.4 | 577.4 | 576.7 | 576.4 | 576.4 | 576.7 | 574.5 | 574.8 |
| 7.5° | 529.5 | 528.9 | 534.7 | 538.8 | 548.1 | 553.6 | 560.7 | 561.0 | 561.6 | 560.7 | 562.6 |
| 10° | 486.5 | 488.4 | 493.6 | 500.3 | 514.1 | 522.5 | 535.9 | 538.5 | 539.5 | 539.8 | 540.1 |
| 12.5° | 445.4 | 443.5 | 449.9 | 462.7 | 481.3 | 494.8 | 511.9 | 513.1 | 514.7 | 517.0 | 519.2 |
| 15° | 408.8 | 411.0 | 416.2 | 429.7 | 449.2 | 468.2 | 490.3 | 491.6 | 494.8 | 496.8 | 500.0 |
| 17.5° | 383.7 | 383.7 | 389.5 | 402.0 | 420.3 | 444.4 | 472.4 | 474.6 | 477.2 | 479.7 | 483.3 |
| 20° | 371.2 | 371.2 | 373.5 | 380.8 | 396.9 | 420.0 | 453.7 | 456.3 | 460.8 | 463.7 | 468.5 |
| 22.5° | 370.2 | 369.9 | 369.6 | 371.2 | 380.8 | 398.8 | 433.8 | 437.4 | 441.2 | 445.7 | 449.9 |
| 25° | 380.5 | 381.5 | 377.6 | 375.1 | 376.0 | 384.4 | 414.9 | 416.8 | 424.2 | 427.1 | 432.2 |
| 27.5° | 395.3 | 396.9 | 393.7 | 389.8 | 384.1 | 378.6 | 398.8 | 402.0 | 406.9 | 411.7 | 418.1 |
| 30° | 416.5 | 416.2 | 415.8 | 413.3 | 402.0 | 385.0 | 394.0 | 396.3 | 400.4 | 404.3 | 409.7 |
| 32.5° | 439.3 | 441.9 | 443.8 | 442.5 | 430.9 | 402.0 | 400.8 | 402.7 | 406.5 | 408.8 | 412.3 |
| 35° | 468.8 | 470.1 | 477.5 | 477.5 | 465.9 | 432.5 | 419.7 | 421.3 | 423.2 | 424.2 | 426.8 |
| 37.5° | 501.3 | 505.8 | 516.7 | 523.1 | 505.1 | 470.4 | 449.6 | 449.6 | 450.5 | 451.2 | 452.8 |
| 40° | 538.8 | 545.3 | 560.3 | 572.5 | 561.0 | 517.6 | 488.7 | 491.6 | 490.7 | 489.4 | 492.9 |
| 42.5° | 582.5 | 589.6 | 607.9 | 619.4 | 612.7 | 574.5 | 541.4 | 539.5 | 542.4 | 538.5 | 539.8 |
| 45° | 633.2 | 638.7 | 657.3 | 669.5 | 675.0 | 644.2 | 610.4 | 606.6 | 606.6 | 598.2 | 601.8 |
| 47.5° | 678.8 | 680.4 | 698.4 | 719.9 | 737.6 | 738.2 | 690.7 | 688.1 | 682.0 | 676.6 | 675.3 |
| 50° | 721.2 | 726.0 | 737.6 | 761.0 | 798.0 | 830.1 | 801.2 | 793.2 | 786.4 | 766.2 | 772.3 |
| 52.5° | 794.8 | 804.1 | 811.5 | 825.6 | 869.3 | 934.4 | 970.1 | 957.6 | 956.0 | 937.7 | 933.5 |
| 55° | 808.6 | 809.5 | 833.9 | 915.5 | 1018.3 | 1065.1 | 1133.5 | 1133.2 | 1138.3 | 1132.6 | 1127.1 |
| 57.5° | 743.7 | 736.0 | 776.8 | 884.3 | 1090.8 | 1331.7 | 1310.8 | 1313.0 | 1306.3 | 1288.6 | 1283.2 |
| 60° | 579.3 | 585.7 | 629.7 | 766.8 | 1038.5 | 1503.8 | 1641.5 | 1600.8 | 1630.0 | 1584.1 | 1559.3 |
| 62.5° | 325.9 | 318.5 | 348.4 | 492.6 | 851.9 | 1512.8 | 2092.1 | 2096.6 | 2110.7 | 2085.0 | 2024.6 |
| 65° | 210.3 | 207.1 | 204.2 | 249.2 | 510.6 | 1323.3 | 2341.2 | 2396.5 | 2429.5 | 2443.0 | 2444.0 |
| 66° | 180.8 | 178.2 | 174.7 | 203.9 | 355.8 | 1166.0 | 2325.2 | 2384.3 | 2436.9 | 2462.0 | 2469.4 |
| 67.5° | 153.8 | 150.0 | 149.3 | 168.9 | 247.6 | 904.6 | 2172.0 | 2264.8 | 2311.4 | 2376.2 | 2411.6 |
| 70° | 117.5 | 115.6 | 121.4 | 145.8 | 190.1 | 425.8 | 1730.8 | 1851.9 | 1932.1 | 1982.9 | 2015.6 |
| 72.5° | 98.6 | 97.9 | 106.0 | 133.3 | 180.1 | 241.5 | 1211.6 | 1341.6 | 1425.4 | 1473.9 | 1518.9 |
| 75° | 77.1 | 77.7 | 88.3 | 127.2 | 179.2 | 210.3 | 703.9 | 827.8 | 876.6 | 953.1 | 1011.5 |
| 77.5° | 57.8 | 57.2 | 65.5 | 102.8 | 174.7 | 213.2 | 365.7 | 417.1 | 470.8 | 509.6 | 523.7 |
| 80° | 40.5 | 41.1 | 46.9 | 70.6 | 136.2 | 219.3 | 228.0 | 239.9 | 251.1 | 263.6 | 266.2 |
| 82.5° | 27.0 | 27.3 | 34.7 | 48.5 | 94.4 | 209.4 | 212.9 | 207.4 | 198.8 | 187.9 | 176.0 |
| 85° | 16.4 | 17.0 | 24.7 | 32.8 | 73.2 | 189.5 | 220.3 | 205.8 | 192.7 | 178.2 | 163.8 |
| 87.5° | 8.3 | 9.3 | 14.8 | 19.3 | 43.4 | 93.4 | 229.3 | 218.7 | 200.7 | 178.5 | 162.5 |
| 90° | 7.2 | 7.2 | 10.2 | 12.8 | 16.7 | 25.9 | 64.8 | 59.2 | 33.4 | 57.1 | 32.2 |
| 92.5° | 4.0 | 4.0 | 5.0 | 6.0 | 6.0 | 6.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 95° | 5.0 | 5.0 | 6.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.1 | 7.2 | 7.3 | 7.4 |
| 97.5° | 7.0 | 7.0 | 8.0 | 8.0 | 9.0 | 9.0 | 12.0 | 11.8 | 11.6 | 11.4 | 11.2 |
| 100° | 8.0 | 8.0 | 9.0 | 10.0 | 12.0 | 21.0 | 29.0 | 28.7 | 28.4 | 28.1 | 27.8 |
| 102.5° | 11.0 | 11.0 | 13.0 | 18.0 | 27.0 | 40.0 | 50.0 | 49.7 | 49.4 | 49.1 | 48.8 |
| 105° | 21.0 | 22.0 | 27.0 | 36.0 | 48.0 | 63.0 | 72.0 | 71.8 | 71.6 | 71.4 | 71.2 |
| 107.5° | 41.0 | 42.0 | 49.0 | 58.0 | 73.0 | 88.0 | 95.0 | 94.9 | 94.8 | 94.7 | 94.6 |



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CATALOG NUMBER: ISW-AF-350-LED-E1-SL3-7030-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 66.0 | 68.0 | 74.0 | 87.0 | 102.0 | 114.0 | 120.0 | 120.1 | 120.2 | 120.3 | 120.4 |
| 112.5° | 99.0 | 99.0 | 106.0 | 121.0 | 134.0 | 143.0 | 148.0 | 148.2 | 148.4 | 148.6 | 148.8 |
| 115° | 140.0 | 139.0 | 147.0 | 159.0 | 168.0 | 174.0 | 179.0 | 179.3 | 179.6 | 179.9 | 180.2 |
| 117.5° | 184.0 | 184.0 | 189.0 | 197.0 | 202.0 | 205.0 | 211.0 | 211.4 | 211.8 | 212.2 | 212.6 |
| 120° | 225.0 | 223.0 | 226.0 | 233.0 | 237.0 | 243.0 | 246.0 | 246.4 | 246.8 | 247.2 | 247.6 |
| 122.5° | 263.0 | 260.0 | 261.0 | 267.0 | 271.0 | 277.0 | 279.0 | 279.4 | 279.8 | 280.2 | 280.6 |
| 125° | 298.0 | 294.0 | 296.0 | 299.0 | 305.0 | 310.0 | 313.0 | 313.2 | 313.4 | 313.6 | 313.8 |
| 127.5° | 330.0 | 329.0 | 329.0 | 333.0 | 339.0 | 340.0 | 345.0 | 345.1 | 345.2 | 345.3 | 345.4 |
| 130° | 363.0 | 361.0 | 362.0 | 366.0 | 370.0 | 372.0 | 377.0 | 377.4 | 377.8 | 378.2 | 378.6 |
| 132.5° | 396.0 | 394.0 | 393.0 | 401.0 | 404.0 | 405.0 | 411.0 | 411.5 | 412.0 | 412.5 | 413.0 |
| 135° | 429.0 | 426.0 | 426.0 | 432.0 | 435.0 | 437.0 | 443.0 | 443.5 | 444.0 | 444.5 | 445.0 |
| 137.5° | 460.0 | 457.0 | 459.0 | 460.0 | 464.0 | 468.0 | 473.0 | 473.2 | 473.4 | 473.6 | 473.8 |
| 140° | 488.0 | 485.0 | 487.0 | 489.0 | 491.0 | 497.0 | 500.0 | 500.2 | 500.4 | 500.6 | 500.8 |
| 142.5° | 518.0 | 515.0 | 517.0 | 518.0 | 521.0 | 525.0 | 527.0 | 527.6 | 528.2 | 528.8 | 529.4 |
| 145° | 550.0 | 546.0 | 544.0 | 547.0 | 550.0 | 551.0 | 556.0 | 556.6 | 557.2 | 557.8 | 558.4 |
| 147.5° | 575.0 | 572.0 | 571.0 | 574.0 | 574.0 | 575.0 | 580.0 | 580.5 | 581.0 | 581.5 | 582.0 |
| 150° | 595.0 | 592.0 | 593.0 | 593.0 | 593.0 | 593.0 | 597.0 | 597.3 | 597.6 | 597.9 | 598.2 |
| 152.5° | 611.0 | 608.0 | 608.0 | 609.0 | 610.0 | 610.0 | 611.0 | 611.3 | 611.6 | 611.9 | 612.2 |
| 155° | 629.0 | 625.0 | 625.0 | 627.0 | 630.0 | 628.0 | 626.0 | 626.5 | 627.0 | 627.5 | 628.0 |
| 157.5° | 646.0 | 643.0 | 643.0 | 644.0 | 646.0 | 645.0 | 644.0 | 644.4 | 644.8 | 645.2 | 645.6 |
| 160° | 663.0 | 660.0 | 659.0 | 656.0 | 655.0 | 655.0 | 658.0 | 658.6 | 659.2 | 659.8 | 660.4 |
| 162.5° | 673.0 | 669.0 | 669.0 | 665.0 | 661.0 | 663.0 | 667.0 | 667.4 | 667.8 | 668.2 | 668.6 |
| 165° | 681.0 | 678.0 | 676.0 | 676.0 | 673.0 | 673.0 | 672.0 | 672.5 | 673.0 | 673.5 | 674.0 |
| 167.5° | 690.0 | 687.0 | 684.0 | 686.0 | 688.0 | 685.0 | 678.0 | 678.6 | 679.2 | 679.8 | 680.4 |
| 170° | 698.0 | 695.0 | 692.0 | 692.0 | 693.0 | 691.0 | 686.0 | 686.3 | 686.6 | 686.9 | 687.2 |
| 172.5° | 699.0 | 697.0 | 695.0 | 693.0 | 690.0 | 690.0 | 689.0 | 689.3 | 689.6 | 689.9 | 690.2 |
| 175° | 700.0 | 698.0 | 697.0 | 695.0 | 691.0 | 690.0 | 690.0 | 690.5 | 691.0 | 691.5 | 692.0 |
| 177.5° | 707.0 | 705.0 | 700.0 | 699.0 | 697.0 | 695.0 | 694.0 | 694.5 | 695.0 | 695.5 | 696.0 |
| 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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CATALOG NUMBER: ISW-AF-350-LED-E1-SL3-7030-ULG

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 |
| 2.5° | 577.7 | 578.3 | 577.7 | 576.7 | 577.7 | 576.7 | 576.4 | 576.1 | 576.4 | 575.8 | 575.4 |
| 5° | 574.8 | 575.4 | 575.4 | 573.5 | 573.2 | 574.5 | 572.5 | 573.2 | 572.5 | 571.9 | 570.6 |
| 7.5° | 561.0 | 561.3 | 561.6 | 560.3 | 561.3 | 561.3 | 560.7 | 560.7 | 560.0 | 560.3 | 559.1 |
| 10° | 541.7 | 543.0 | 544.3 | 543.6 | 543.3 | 546.2 | 544.9 | 545.9 | 545.9 | 544.9 | 545.3 |
| 12.5° | 520.8 | 523.1 | 524.7 | 524.7 | 526.0 | 529.2 | 528.9 | 529.5 | 532.1 | 532.1 | 531.1 |
| 15° | 501.6 | 503.8 | 506.4 | 508.3 | 510.9 | 513.1 | 514.7 | 517.3 | 518.6 | 518.6 | 520.2 |
| 17.5° | 486.5 | 489.7 | 492.6 | 493.6 | 497.1 | 500.9 | 501.9 | 505.1 | 507.0 | 508.0 | 509.9 |
| 20° | 471.7 | 475.2 | 478.8 | 482.0 | 485.2 | 489.7 | 491.9 | 493.9 | 497.1 | 499.0 | 501.9 |
| 22.5° | 454.4 | 459.8 | 464.3 | 468.2 | 473.6 | 477.5 | 482.0 | 485.2 | 489.1 | 491.9 | 494.2 |
| 25° | 438.0 | 445.4 | 451.5 | 455.3 | 462.7 | 468.2 | 473.6 | 478.5 | 483.3 | 487.5 | 490.7 |
| 27.5° | 422.9 | 431.3 | 438.6 | 444.7 | 452.8 | 461.4 | 466.9 | 474.9 | 481.3 | 487.1 | 491.0 |
| 30° | 415.5 | 422.6 | 430.3 | 437.4 | 445.4 | 456.3 | 465.3 | 475.6 | 483.6 | 491.0 | 496.8 |
| 32.5° | 417.1 | 423.5 | 430.3 | 436.4 | 444.7 | 456.9 | 466.3 | 478.1 | 490.0 | 499.7 | 507.0 |
| 35° | 430.0 | 435.8 | 440.2 | 445.7 | 453.1 | 462.4 | 472.4 | 484.9 | 499.7 | 512.5 | 522.1 |
| 37.5° | 456.9 | 458.6 | 463.0 | 467.2 | 471.1 | 479.7 | 489.1 | 499.7 | 516.7 | 530.2 | 543.6 |
| 40° | 490.3 | 494.5 | 498.7 | 500.6 | 505.1 | 510.6 | 514.7 | 526.0 | 541.1 | 558.7 | 573.5 |
| 42.5° | 540.1 | 541.7 | 542.4 | 543.0 | 544.6 | 548.5 | 554.6 | 564.8 | 579.6 | 595.3 | 611.7 |
| 45° | 596.0 | 597.9 | 599.8 | 600.8 | 598.6 | 600.8 | 607.2 | 612.0 | 626.5 | 641.3 | 662.1 |
| 47.5° | 673.4 | 667.6 | 664.7 | 668.6 | 666.6 | 671.4 | 674.3 | 677.2 | 694.6 | 712.2 | 729.9 |
| 50° | 772.6 | 769.1 | 764.6 | 764.9 | 768.4 | 765.2 | 767.1 | 777.7 | 783.5 | 798.3 | 821.7 |
| 52.5° | 931.2 | 920.3 | 903.3 | 895.9 | 900.1 | 897.5 | 898.5 | 900.7 | 896.9 | 910.7 | 930.6 |
| 55° | 1127.1 | 1113.0 | 1101.7 | 1095.3 | 1071.6 | 1069.6 | 1053.9 | 1048.1 | 1035.6 | 1048.8 | 1044.3 |
| 57.5° | 1266.8 | 1257.8 | 1252.0 | 1232.8 | 1221.8 | 1200.0 | 1193.6 | 1185.9 | 1168.5 | 1177.2 | 1184.9 |
| 60° | 1536.5 | 1504.4 | 1493.5 | 1459.8 | 1448.5 | 1427.7 | 1401.0 | 1387.9 | 1378.9 | 1387.2 | 1382.1 |
| 62.5° | 1986.7 | 1942.1 | 1933.4 | 1853.5 | 1833.9 | 1785.7 | 1735.6 | 1728.9 | 1700.6 | 1683.0 | 1678.8 |
| 65° | 2426.3 | 2362.4 | 2314.6 | 2227.2 | 2168.2 | 2099.4 | 2023.0 | 1967.1 | 1909.7 | 1880.8 | 1842.6 |
| 66° | 2459.1 | 2433.7 | 2385.6 | 2334.5 | 2248.4 | 2173.3 | 2086.6 | 2026.2 | 1961.7 | 1910.9 | 1878.2 |
| 67.5° | 2403.2 | 2389.7 | 2372.7 | 2338.0 | 2284.1 | 2214.1 | 2131.9 | 2054.8 | 1977.1 | 1917.4 | 1865.0 |
| 70° | 2031.4 | 2046.1 | 2065.4 | 2056.4 | 2025.6 | 1998.3 | 1925.7 | 1882.7 | 1824.2 | 1745.9 | 1713.8 |
| 72.5° | 1533.3 | 1572.8 | 1559.3 | 1508.6 | 1484.8 | 1465.9 | 1439.6 | 1410.7 | 1326.8 | 1317.2 | 1279.3 |
| 75° | 986.5 | 973.3 | 982.0 | 920.3 | 878.2 | 860.9 | 798.3 | 772.6 | 709.7 | 668.9 | 637.7 |
| 77.5° | 519.9 | 494.2 | 474.3 | 420.0 | 381.2 | 358.4 | 327.9 | 291.9 | 236.7 | 233.4 | 183.0 |
| 80° | 241.2 | 221.6 | 203.6 | 184.6 | 165.7 | 140.6 | 122.0 | 99.5 | 88.0 | 75.5 | 70.3 |
| 82.5° | 163.8 | 151.2 | 140.3 | 127.8 | 113.4 | 96.0 | 82.8 | 70.3 | 60.0 | 53.9 | 49.1 |
| 85° | 148.4 | 134.9 | 122.7 | 106.9 | 91.8 | 77.4 | 63.3 | 52.3 | 42.7 | 37.2 | 34.0 |
| 87.5° | 144.2 | 127.5 | 114.6 | 97.6 | 82.8 | 68.1 | 54.6 | 42.4 | 33.1 | 27.0 | 23.1 |
| 90° | 26.3 | 27.8 | 22.5 | 22.1 | 14.6 | 16.4 | 14.5 | 12.2 | 12.5 | 11.6 | 11.9 |
| 92.5° | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 6.9 | 6.8 | 6.7 | 6.6 | 6.5 |
| 95° | 7.5 | 7.6 | 7.7 | 7.8 | 7.9 | 8.0 | 7.9 | 7.8 | 7.7 | 7.6 | 7.5 |
| 97.5° | 11.0 | 10.8 | 10.6 | 10.4 | 10.2 | 10.0 | 9.9 | 9.8 | 9.7 | 9.6 | 9.5 |
| 100° | 27.5 | 27.2 | 26.9 | 26.6 | 26.3 | 26.0 | 25.7 | 25.4 | 25.1 | 24.8 | 24.5 |
| 102.5° | 48.5 | 48.2 | 47.9 | 47.6 | 47.3 | 47.0 | 46.5 | 46.0 | 45.5 | 45.0 | 44.5 |
| 105° | 71.0 | 70.8 | 70.6 | 70.4 | 70.2 | 70.0 | 69.5 | 69.0 | 68.5 | 68.0 | 67.5 |
| 107.5° | 94.5 | 94.4 | 94.3 | 94.2 | 94.1 | 94.0 | 93.6 | 93.2 | 92.8 | 92.4 | 92.0 |



REPORT NUMBER: P226899

CATALOG NUMBER: ISW-AF-350-LED-E1-SL3-7030-ULG

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 120.5 | 120.6 | 120.7 | 120.8 | 120.9 | 121.0 | 120.8 | 120.6 | 120.4 | 120.2 | 120.0 |
| 112.5° | 149.0 | 149.2 | 149.4 | 149.6 | 149.8 | 150.0 | 149.9 | 149.8 | 149.7 | 149.6 | 149.5 |
| 115° | 180.5 | 180.8 | 181.1 | 181.4 | 181.7 | 182.0 | 181.7 | 181.4 | 181.1 | 180.8 | 180.5 |
| 117.5° | 213.0 | 213.4 | 213.8 | 214.2 | 214.6 | 215.0 | 214.5 | 214.0 | 213.5 | 213.0 | 212.5 |
| 120° | 248.0 | 248.4 | 248.8 | 249.2 | 249.6 | 250.0 | 249.5 | 249.0 | 248.5 | 248.0 | 247.5 |
| 122.5° | 281.0 | 281.4 | 281.8 | 282.2 | 282.6 | 283.0 | 282.5 | 282.0 | 281.5 | 281.0 | 280.5 |
| 125° | 314.0 | 314.2 | 314.4 | 314.6 | 314.8 | 315.0 | 314.5 | 314.0 | 313.5 | 313.0 | 312.5 |
| 127.5° | 345.5 | 345.6 | 345.7 | 345.8 | 345.9 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 |
| 130° | 379.0 | 379.4 | 379.8 | 380.2 | 380.6 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 |
| 132.5° | 413.5 | 414.0 | 414.5 | 415.0 | 415.5 | 416.0 | 415.8 | 415.6 | 415.4 | 415.2 | 415.0 |
| 135° | 445.5 | 446.0 | 446.5 | 447.0 | 447.5 | 448.0 | 447.9 | 447.8 | 447.7 | 447.6 | 447.5 |
| 137.5° | 474.0 | 474.2 | 474.4 | 474.6 | 474.8 | 475.0 | 475.1 | 475.2 | 475.3 | 475.4 | 475.5 |
| 140° | 501.0 | 501.2 | 501.4 | 501.6 | 501.8 | 502.0 | 502.2 | 502.4 | 502.6 | 502.8 | 503.0 |
| 142.5° | 530.0 | 530.6 | 531.2 | 531.8 | 532.4 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 |
| 145° | 559.0 | 559.6 | 560.2 | 560.8 | 561.4 | 562.0 | 561.9 | 561.8 | 561.7 | 561.6 | 561.5 |
| 147.5° | 582.5 | 583.0 | 583.5 | 584.0 | 584.5 | 585.0 | 585.1 | 585.2 | 585.3 | 585.4 | 585.5 |
| 150° | 598.5 | 598.8 | 599.1 | 599.4 | 599.7 | 600.0 | 600.3 | 600.6 | 600.9 | 601.2 | 601.5 |
| 152.5° | 612.5 | 612.8 | 613.1 | 613.4 | 613.7 | 614.0 | 614.4 | 614.8 | 615.2 | 615.6 | 616.0 |
| 155° | 628.5 | 629.0 | 629.5 | 630.0 | 630.5 | 631.0 | 631.5 | 632.0 | 632.5 | 633.0 | 633.5 |
| 157.5° | 646.0 | 646.4 | 646.8 | 647.2 | 647.6 | 648.0 | 648.2 | 648.4 | 648.6 | 648.8 | 649.0 |
| 160° | 661.0 | 661.6 | 662.2 | 662.8 | 663.4 | 664.0 | 663.7 | 663.4 | 663.1 | 662.8 | 662.5 |
| 162.5° | 669.0 | 669.4 | 669.8 | 670.2 | 670.6 | 671.0 | 670.9 | 670.8 | 670.7 | 670.6 | 670.5 |
| 165° | 674.5 | 675.0 | 675.5 | 676.0 | 676.5 | 677.0 | 677.3 | 677.6 | 677.9 | 678.2 | 678.5 |
| 167.5° | 681.0 | 681.6 | 682.2 | 682.8 | 683.4 | 684.0 | 684.4 | 684.8 | 685.2 | 685.6 | 686.0 |
| 170° | 687.5 | 687.8 | 688.1 | 688.4 | 688.7 | 689.0 | 689.5 | 690.0 | 690.5 | 691.0 | 691.5 |
| 172.5° | 690.5 | 690.8 | 691.1 | 691.4 | 691.7 | 692.0 | 692.2 | 692.4 | 692.6 | 692.8 | 693.0 |
| 175° | 692.5 | 693.0 | 693.5 | 694.0 | 694.5 | 695.0 | 695.1 | 695.2 | 695.3 | 695.4 | 695.5 |
| 177.5° | 696.5 | 697.0 | 697.5 | 698.0 | 698.5 | 699.0 | 699.2 | 699.4 | 699.6 | 699.8 | 700.0 |
| 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: P226899

CATALOG NUMBER: ISW-AF-350-LED-E1-SL3-7030-ULG

CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 |
| 2.5° | 574.8 | 573.8 | 574.8 | 574.5 | 573.2 | 573.5 | 573.8 | 572.5 | 571.9 | 571.9 | 571.6 |
| 5° | 569.7 | 569.0 | 569.7 | 569.3 | 567.4 | 567.1 | 567.1 | 566.1 | 564.8 | 563.9 | 563.2 |
| 7.5° | 557.5 | 558.1 | 557.8 | 556.8 | 555.8 | 555.8 | 554.9 | 552.6 | 551.4 | 550.1 | 548.8 |
| 10° | 543.6 | 543.6 | 544.0 | 543.6 | 542.0 | 541.4 | 540.1 | 538.8 | 539.2 | 535.9 | 533.4 |
| 12.5° | 531.4 | 531.4 | 531.1 | 530.5 | 529.5 | 529.2 | 529.2 | 525.3 | 524.4 | 523.4 | 520.5 |
| 15° | 519.9 | 520.5 | 520.5 | 520.5 | 518.9 | 518.9 | 517.3 | 514.7 | 514.7 | 511.9 | 509.0 |
| 17.5° | 510.9 | 511.9 | 511.5 | 511.9 | 512.2 | 510.3 | 507.4 | 505.8 | 503.8 | 502.2 | 498.4 |
| 20° | 503.2 | 503.8 | 504.1 | 504.1 | 503.2 | 501.9 | 499.3 | 496.8 | 495.5 | 492.3 | 487.5 |
| 22.5° | 496.1 | 497.4 | 497.7 | 497.7 | 496.4 | 495.5 | 492.9 | 489.1 | 486.5 | 482.6 | 478.1 |
| 25° | 493.2 | 494.8 | 493.9 | 494.5 | 493.2 | 491.0 | 487.5 | 484.2 | 480.4 | 475.6 | 470.8 |
| 27.5° | 494.2 | 496.4 | 495.8 | 495.5 | 493.9 | 492.3 | 487.8 | 483.9 | 479.4 | 473.6 | 467.5 |
| 30° | 500.0 | 503.8 | 502.2 | 500.9 | 500.6 | 496.8 | 492.6 | 487.1 | 482.0 | 475.2 | 468.2 |
| 32.5° | 510.9 | 512.8 | 513.1 | 512.2 | 510.6 | 507.4 | 501.6 | 494.5 | 488.7 | 480.7 | 472.4 |
| 35° | 528.9 | 530.8 | 530.2 | 530.2 | 528.6 | 523.4 | 516.4 | 509.3 | 501.3 | 492.3 | 483.6 |
| 37.5° | 553.9 | 557.5 | 556.8 | 555.5 | 553.6 | 547.5 | 542.0 | 533.4 | 524.4 | 512.5 | 502.5 |
| 40° | 585.4 | 590.8 | 595.7 | 594.7 | 590.2 | 584.7 | 579.6 | 569.7 | 560.7 | 547.5 | 536.6 |
| 42.5° | 627.8 | 635.2 | 641.3 | 645.8 | 643.8 | 636.8 | 627.8 | 623.6 | 610.8 | 597.3 | 586.0 |
| 45° | 682.0 | 697.5 | 702.9 | 708.4 | 708.4 | 703.9 | 702.0 | 693.6 | 680.1 | 662.1 | 651.5 |
| 47.5° | 753.7 | 774.2 | 780.3 | 789.6 | 795.1 | 790.3 | 786.7 | 772.6 | 763.6 | 738.9 | 736.3 |
| 50° | 840.7 | 861.2 | 877.9 | 888.8 | 887.2 | 891.4 | 883.1 | 875.0 | 862.5 | 842.3 | 835.2 |
| 52.5° | 951.8 | 968.2 | 983.3 | 989.7 | 996.4 | 995.5 | 993.5 | 988.1 | 972.3 | 961.4 | 943.4 |
| 55° | 1065.8 | 1079.3 | 1097.6 | 1108.2 | 1116.8 | 1115.2 | 1107.8 | 1094.7 | 1097.6 | 1074.8 | 1064.8 |
| 57.5° | 1195.5 | 1210.3 | 1230.2 | 1240.1 | 1244.0 | 1263.6 | 1258.8 | 1257.2 | 1251.7 | 1243.7 | 1233.4 |
| 60° | 1418.7 | 1422.9 | 1439.2 | 1464.3 | 1495.1 | 1489.0 | 1496.7 | 1501.9 | 1505.7 | 1487.7 | 1486.4 |
| 62.5° | 1684.6 | 1689.7 | 1703.8 | 1709.0 | 1713.5 | 1714.1 | 1703.8 | 1703.8 | 1686.2 | 1663.0 | 1645.1 |
| 65° | 1829.7 | 1819.1 | 1809.5 | 1804.0 | 1792.1 | 1781.5 | 1766.1 | 1745.3 | 1715.4 | 1679.7 | 1647.6 |
| 66° | 1850.6 | 1829.1 | 1816.5 | 1802.7 | 1783.8 | 1764.2 | 1745.9 | 1717.3 | 1682.3 | 1639.9 | 1597.5 |
| 67.5° | 1830.3 | 1800.8 | 1771.6 | 1751.4 | 1725.0 | 1689.7 | 1657.6 | 1624.2 | 1591.1 | 1533.0 | 1493.5 |
| 70° | 1645.7 | 1610.4 | 1578.3 | 1534.0 | 1492.2 | 1457.5 | 1402.3 | 1344.2 | 1296.3 | 1235.3 | 1196.5 |
| 72.5° | 1222.2 | 1180.4 | 1138.7 | 1076.4 | 1015.7 | 1006.7 | 937.3 | 868.9 | 832.3 | 783.2 | 743.7 |
| 75° | 603.7 | 551.0 | 476.2 | 442.8 | 394.3 | 370.6 | 357.4 | 307.9 | 296.1 | 247.6 | 246.9 |
| 77.5° | 170.5 | 146.4 | 130.1 | 113.4 | 106.3 | 101.2 | 83.5 | 80.0 | 72.6 | 71.3 | 67.1 |
| 80° | 64.5 | 61.0 | 59.4 | 57.8 | 56.2 | 55.2 | 54.6 | 52.0 | 50.7 | 48.8 | 47.8 |
| 82.5° | 46.6 | 45.3 | 42.4 | 41.4 | 40.1 | 38.2 | 37.9 | 36.3 | 35.3 | 33.4 | 32.8 |
| 85° | 31.5 | 29.9 | 28.3 | 26.7 | 26.0 | 25.7 | 24.7 | 24.1 | 23.4 | 22.5 | 22.2 |
| 87.5° | 21.2 | 19.6 | 17.7 | 17.0 | 16.7 | 17.0 | 17.3 | 16.7 | 16.4 | 15.7 | 15.4 |
| 90° | 11.6 | 12.5 | 12.2 | 12.2 | 12.9 | 12.0 | 11.8 | 11.9 | 11.4 | 11.2 | 10.7 |
| 92.5° | 6.4 | 6.3 | 6.2 | 6.1 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 95° | 7.4 | 7.3 | 7.2 | 7.1 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 97.5° | 9.4 | 9.3 | 9.2 | 9.1 | 9.0 | 8.9 | 8.8 | 8.7 | 8.6 | 8.5 | 8.4 |
| 100° | 24.2 | 23.9 | 23.6 | 23.3 | 23.0 | 22.6 | 22.2 | 21.8 | 21.4 | 21.0 | 20.6 |
| 102.5° | 44.0 | 43.5 | 43.0 | 42.5 | 42.0 | 41.7 | 41.4 | 41.1 | 40.8 | 40.5 | 40.2 |
| 105° | 67.0 | 66.5 | 66.0 | 65.5 | 65.0 | 64.6 | 64.2 | 63.8 | 63.4 | 63.0 | 62.6 |
| 107.5° | 91.6 | 91.2 | 90.8 | 90.4 | 90.0 | 89.7 | 89.4 | 89.1 | 88.8 | 88.5 | 88.2 |



REPORT NUMBER: P226899
 CATALOG NUMBER: ISW-AF-350-LED-E1-SL3-7030-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 110° | 119.8 | 119.6 | 119.4 | 119.2 | 119.0 | 118.7 | 118.4 | 118.1 | 117.8 | 117.5 | 117.2 | 0° |
| 112.5° | 149.4 | 149.3 | 149.2 | 149.1 | 149.0 | 148.8 | 148.6 | 148.4 | 148.2 | 148.0 | 147.8 | 2.5° |
| 115° | 180.2 | 179.9 | 179.6 | 179.3 | 179.0 | 178.8 | 178.6 | 178.4 | 178.2 | 178.0 | 177.8 | 5° |
| 117.5° | 212.0 | 211.5 | 211.0 | 210.5 | 210.0 | 209.8 | 209.6 | 209.4 | 209.2 | 209.0 | 208.8 | 7.5° |
| 120° | 247.0 | 246.5 | 246.0 | 245.5 | 245.0 | 244.8 | 244.6 | 244.4 | 244.2 | 244.0 | 243.8 | 10° |
| 122.5° | 280.0 | 279.5 | 279.0 | 278.5 | 278.0 | 277.8 | 277.6 | 277.4 | 277.2 | 277.0 | 276.8 | 12.5° |
| 125° | 312.0 | 311.5 | 311.0 | 310.5 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 15° |
| 127.5° | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 345.9 | 345.8 | 345.7 | 345.6 | 345.5 | 345.4 | 17.5° |
| 130° | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 380.8 | 380.6 | 380.4 | 380.2 | 380.0 | 379.8 | 20° |
| 132.5° | 414.8 | 414.6 | 414.4 | 414.2 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 22.5° |
| 135° | 447.4 | 447.3 | 447.2 | 447.1 | 447.0 | 447.3 | 447.6 | 447.9 | 448.2 | 448.5 | 448.8 | 25° |
| 137.5° | 475.6 | 475.7 | 475.8 | 475.9 | 476.0 | 476.5 | 477.0 | 477.5 | 478.0 | 478.5 | 479.0 | 27.5° |
| 140° | 503.2 | 503.4 | 503.6 | 503.8 | 504.0 | 504.5 | 505.0 | 505.5 | 506.0 | 506.5 | 507.0 | 30° |
| 142.5° | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.1 | 533.2 | 533.3 | 533.4 | 533.5 | 533.6 | 32.5° |
| 145° | 561.4 | 561.3 | 561.2 | 561.1 | 561.0 | 560.7 | 560.4 | 560.1 | 559.8 | 559.5 | 559.2 | 35° |
| 147.5° | 585.6 | 585.7 | 585.8 | 585.9 | 586.0 | 585.7 | 585.4 | 585.1 | 584.8 | 584.5 | 584.2 | 37.5° |
| 150° | 601.8 | 602.1 | 602.4 | 602.7 | 603.0 | 603.3 | 603.6 | 603.9 | 604.2 | 604.5 | 604.8 | 40° |
| 152.5° | 616.4 | 616.8 | 617.2 | 617.6 | 618.0 | 618.5 | 619.0 | 619.5 | 620.0 | 620.5 | 621.0 | 42.5° |
| 155° | 634.0 | 634.5 | 635.0 | 635.5 | 636.0 | 636.2 | 636.4 | 636.6 | 636.8 | 637.0 | 637.2 | 45° |
| 157.5° | 649.2 | 649.4 | 649.6 | 649.8 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 47.5° |
| 160° | 662.2 | 661.9 | 661.6 | 661.3 | 661.0 | 660.9 | 660.8 | 660.7 | 660.6 | 660.5 | 660.4 | 50° |
| 162.5° | 670.4 | 670.3 | 670.2 | 670.1 | 670.0 | 669.8 | 669.6 | 669.4 | 669.2 | 669.0 | 668.8 | 52.5° |
| 165° | 678.8 | 679.1 | 679.4 | 679.7 | 680.0 | 679.8 | 679.6 | 679.4 | 679.2 | 679.0 | 678.8 | 55° |
| 167.5° | 686.4 | 686.8 | 687.2 | 687.6 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 57.5° |
| 170° | 692.0 | 692.5 | 693.0 | 693.5 | 694.0 | 694.2 | 694.4 | 694.6 | 694.8 | 695.0 | 695.2 | 60° |
| 172.5° | 693.2 | 693.4 | 693.6 | 693.8 | 694.0 | 694.2 | 694.4 | 694.6 | 694.8 | 695.0 | 695.2 | 62.5° |
| 175° | 695.6 | 695.7 | 695.8 | 695.9 | 696.0 | 695.8 | 695.6 | 695.4 | 695.2 | 695.0 | 694.8 | 65° |
| 177.5° | 700.2 | 700.4 | 700.6 | 700.8 | 701.0 | 700.7 | 700.4 | 700.1 | 699.8 | 699.5 | 699.2 | 66° |
| 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: P226899
 NUMBER: ISW-AF-350-LED-E1-SL3-7030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

| 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 82° | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|-------|
| 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 110° | 116.9 |
| 570.9 | 570.0 | 570.3 | 569.0 | 568.7 | 569.3 | 569.7 | 569.7 | 568.7 | 562.9 | 556.2 | 112.5° | 147.6 |
| 562.6 | 560.7 | 560.3 | 559.4 | 557.8 | 559.7 | 558.7 | 557.1 | 555.2 | 548.5 | 535.3 | 115° | 177.6 |
| 547.2 | 545.9 | 544.3 | 543.0 | 542.0 | 541.4 | 541.1 | 539.5 | 535.9 | 523.4 | 501.3 | 117.5° | 208.6 |
| 532.4 | 530.8 | 528.9 | 526.0 | 524.7 | 522.8 | 522.8 | 518.9 | 516.4 | 500.6 | 467.9 | 120° | 243.6 |
| 518.0 | 515.1 | 514.1 | 512.2 | 508.6 | 507.0 | 504.8 | 500.9 | 497.1 | 478.1 | 435.1 | 122.5° | 276.6 |
| 507.0 | 504.1 | 500.0 | 498.7 | 494.8 | 491.3 | 488.4 | 483.3 | 479.1 | 454.1 | 400.8 | 125° | 310.0 |
| 495.2 | 492.9 | 488.4 | 485.5 | 481.3 | 477.2 | 472.4 | 465.9 | 463.0 | 431.3 | 368.0 | 127.5° | 345.3 |
| 485.5 | 480.4 | 475.2 | 472.7 | 467.5 | 462.7 | 457.9 | 450.2 | 444.4 | 408.8 | 333.3 | 130° | 379.6 |
| 474.3 | 469.8 | 464.3 | 459.8 | 452.8 | 447.3 | 441.9 | 433.8 | 426.8 | 386.0 | 298.3 | 132.5° | 414.0 |
| 466.6 | 460.2 | 454.4 | 449.2 | 441.2 | 434.8 | 427.1 | 418.4 | 411.3 | 364.1 | 259.8 | 135° | 449.1 |
| 462.1 | 455.7 | 448.3 | 441.9 | 432.5 | 425.2 | 416.8 | 407.2 | 398.2 | 346.5 | 223.5 | 137.5° | 479.5 |
| 460.8 | 453.1 | 445.4 | 437.4 | 427.7 | 418.4 | 408.5 | 398.8 | 387.3 | 329.5 | 184.0 | 140° | 507.5 |
| 464.7 | 455.3 | 446.7 | 437.0 | 425.8 | 415.2 | 405.2 | 392.7 | 381.2 | 314.7 | 145.1 | 142.5° | 533.7 |
| 475.2 | 464.0 | 454.1 | 443.5 | 430.6 | 419.1 | 407.2 | 393.0 | 380.2 | 304.4 | 111.1 | 145° | 558.9 |
| 491.9 | 481.3 | 469.8 | 459.2 | 444.4 | 431.6 | 418.4 | 403.3 | 387.9 | 300.2 | 83.8 | 147.5° | 583.9 |
| 525.7 | 511.5 | 499.7 | 488.4 | 471.4 | 458.2 | 443.1 | 424.8 | 407.5 | 304.1 | 70.0 | 150° | 605.1 |
| 572.9 | 555.2 | 544.3 | 534.3 | 513.1 | 498.7 | 481.3 | 460.5 | 440.9 | 315.0 | 61.7 | 152.5° | 621.5 |
| 638.1 | 624.6 | 605.0 | 589.6 | 568.1 | 552.0 | 532.7 | 507.7 | 485.8 | 330.4 | 57.5 | 155° | 637.4 |
| 719.6 | 702.0 | 682.7 | 667.0 | 643.5 | 615.6 | 595.3 | 565.2 | 540.4 | 354.5 | 55.6 | 157.5° | 650.0 |
| 819.5 | 798.3 | 772.3 | 759.1 | 726.7 | 704.8 | 677.9 | 645.4 | 614.0 | 391.8 | 56.5 | 160° | 660.3 |
| 928.0 | 905.2 | 885.0 | 859.9 | 830.4 | 806.0 | 780.3 | 745.9 | 706.5 | 462.4 | 60.4 | 162.5° | 668.6 |
| 1042.7 | 1027.9 | 1008.6 | 976.2 | 960.1 | 929.3 | 896.6 | 858.7 | 830.1 | 554.2 | 69.7 | 165° | 678.6 |
| 1209.6 | 1193.6 | 1191.3 | 1159.5 | 1135.1 | 1107.2 | 1081.5 | 1050.0 | 1016.3 | 717.4 | 91.5 | 167.5° | 688.0 |
| 1466.5 | 1449.8 | 1430.9 | 1406.2 | 1377.3 | 1342.6 | 1310.8 | 1268.4 | 1230.8 | 880.8 | 101.8 | 170° | 695.4 |
| 1618.7 | 1587.9 | 1553.9 | 1516.3 | 1474.2 | 1431.2 | 1388.5 | 1334.2 | 1279.6 | 890.8 | 91.8 | 172.5° | 695.4 |
| 1605.9 | 1567.7 | 1524.3 | 1473.3 | 1429.0 | 1376.0 | 1330.1 | 1260.1 | 1210.3 | 793.2 | 74.8 | 175° | 694.6 |
| 1558.4 | 1506.0 | 1465.2 | 1418.4 | 1362.8 | 1315.3 | 1266.8 | 1197.8 | 1140.9 | 727.3 | 68.4 | 177.5° | 698.9 |
| 1436.7 | 1392.0 | 1335.5 | 1290.6 | 1249.5 | 1192.6 | 1147.0 | 1082.5 | 1043.3 | 630.7 | 61.3 | 180° | 700.0 |
| 1148.3 | 1086.6 | 1038.8 | 1003.8 | 957.2 | 905.9 | 865.4 | 811.1 | 776.5 | 417.4 | 53.0 | | |
| 668.9 | 653.5 | 599.8 | 569.7 | 541.4 | 499.7 | 467.5 | 441.5 | 395.9 | 202.3 | 46.9 | | |
| 206.2 | 191.7 | 189.8 | 161.2 | 170.5 | 145.8 | 141.9 | 129.1 | 129.1 | 77.7 | 36.9 | | |
| 65.8 | 64.5 | 62.0 | 58.4 | 57.2 | 57.2 | 55.6 | 55.2 | 52.7 | 41.7 | 27.6 | | |
| 46.6 | 45.6 | 44.6 | 43.7 | 43.0 | 43.4 | 42.1 | 41.4 | 40.8 | 30.2 | 21.8 | | |
| 32.1 | 31.1 | 29.2 | 29.2 | 28.6 | 28.3 | 28.6 | 27.3 | 27.0 | 21.2 | 18.3 | | |
| 21.8 | 21.5 | 21.2 | 20.9 | 20.6 | 20.2 | 19.9 | 18.9 | 18.3 | 14.8 | 12.8 | | |
| 14.5 | 12.2 | 11.9 | 10.3 | 10.0 | 9.6 | 9.0 | 9.6 | 10.6 | 10.6 | 8.3 | | |
| 10.8 | 10.3 | 10.4 | 10.2 | 9.6 | 9.9 | 9.9 | 9.2 | 9.2 | 10.2 | 11.9 | | |
| 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | | |
| 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | | |
| 8.3 | 8.2 | 8.1 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 9.0 | | |
| 20.2 | 19.8 | 19.4 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 23.0 | | |
| 39.9 | 39.6 | 39.3 | 39.0 | 38.8 | 38.6 | 38.4 | 38.2 | 38.0 | 39.0 | 42.0 | | |
| 62.2 | 61.8 | 61.4 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 65.0 | | |
| 87.9 | 87.6 | 87.3 | 87.0 | 86.8 | 86.6 | 86.4 | 86.2 | 86.0 | 87.0 | 90.0 | | |

'226899
 ISW-AF-350-LED-E1-SL3-7030-ULG

REPORT NUMBER: P226899
 CATALOG NUMBER: ISW-AF-3!

TION (continued):

CANDELA DISTRIBUTION (con

| 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 95° | 105° | | 115° | 125° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 116.6 | 116.3 | 116.0 | 116.2 | 116.4 | 116.6 | 116.8 | 117.0 | 116.0 | 119.0 | 0° | 569.0 | 569.0 |
| 147.4 | 147.2 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 149.0 | 2.5° | 550.4 | 545.3 |
| 177.4 | 177.2 | 177.0 | 177.2 | 177.4 | 177.6 | 177.8 | 178.0 | 177.0 | 179.0 | 5° | 521.2 | 509.6 |
| 208.4 | 208.2 | 208.0 | 208.2 | 208.4 | 208.6 | 208.8 | 209.0 | 208.0 | 210.0 | 7.5° | 481.7 | 459.2 |
| 243.4 | 243.2 | 243.0 | 243.0 | 243.0 | 243.0 | 243.0 | 243.0 | 243.0 | 245.0 | 10° | 436.4 | 404.0 |
| 276.4 | 276.2 | 276.0 | 276.2 | 276.4 | 276.6 | 276.8 | 277.0 | 276.0 | 278.0 | 12.5° | 389.5 | 348.1 |
| 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 15° | 345.8 | 290.9 |
| 345.2 | 345.1 | 345.0 | 345.4 | 345.8 | 346.2 | 346.6 | 347.0 | 345.0 | 346.0 | 17.5° | 299.9 | 232.2 |
| 379.4 | 379.2 | 379.0 | 379.2 | 379.4 | 379.6 | 379.8 | 380.0 | 379.0 | 381.0 | 20° | 255.9 | 175.3 |
| 414.0 | 414.0 | 414.0 | 414.2 | 414.4 | 414.6 | 414.8 | 415.0 | 414.0 | 414.0 | 22.5° | 206.2 | 123.0 |
| 449.4 | 449.7 | 450.0 | 450.2 | 450.4 | 450.6 | 450.8 | 451.0 | 450.0 | 447.0 | 25° | 151.2 | 89.3 |
| 480.0 | 480.5 | 481.0 | 481.2 | 481.4 | 481.6 | 481.8 | 482.0 | 481.0 | 476.0 | 27.5° | 107.9 | 71.3 |
| 508.0 | 508.5 | 509.0 | 509.4 | 509.8 | 510.2 | 510.6 | 511.0 | 509.0 | 504.0 | 30° | 80.6 | 60.0 |
| 533.8 | 533.9 | 534.0 | 534.4 | 534.8 | 535.2 | 535.6 | 536.0 | 534.0 | 533.0 | 32.5° | 64.5 | 52.0 |
| 558.6 | 558.3 | 558.0 | 558.4 | 558.8 | 559.2 | 559.6 | 560.0 | 558.0 | 561.0 | 35° | 54.9 | 47.2 |
| 583.6 | 583.3 | 583.0 | 583.4 | 583.8 | 584.2 | 584.6 | 585.0 | 583.0 | 586.0 | 37.5° | 49.1 | 44.0 |
| 605.4 | 605.7 | 606.0 | 606.8 | 607.6 | 608.4 | 609.2 | 610.0 | 606.0 | 603.0 | 40° | 45.9 | 42.4 |
| 622.0 | 622.5 | 623.0 | 624.0 | 625.0 | 626.0 | 627.0 | 628.0 | 623.0 | 618.0 | 42.5° | 44.0 | 40.8 |
| 637.6 | 637.8 | 638.0 | 638.6 | 639.2 | 639.8 | 640.4 | 641.0 | 638.0 | 636.0 | 45° | 43.0 | 39.8 |
| 650.0 | 650.0 | 650.0 | 651.0 | 652.0 | 653.0 | 654.0 | 655.0 | 650.0 | 650.0 | 47.5° | 42.4 | 38.5 |
| 660.2 | 660.1 | 660.0 | 661.2 | 662.4 | 663.6 | 664.8 | 666.0 | 660.0 | 661.0 | 50° | 41.7 | 38.5 |
| 668.4 | 668.2 | 668.0 | 669.2 | 670.4 | 671.6 | 672.8 | 674.0 | 668.0 | 670.0 | 52.5° | 42.1 | 39.2 |
| 678.4 | 678.2 | 678.0 | 678.8 | 679.6 | 680.4 | 681.2 | 682.0 | 678.0 | 680.0 | 55° | 43.7 | 39.2 |
| 688.0 | 688.0 | 688.0 | 689.2 | 690.4 | 691.6 | 692.8 | 694.0 | 688.0 | 688.0 | 57.5° | 46.2 | 39.2 |
| 695.6 | 695.8 | 696.0 | 697.0 | 698.0 | 699.0 | 700.0 | 701.0 | 696.0 | 694.0 | 60° | 48.2 | 39.8 |
| 695.6 | 695.8 | 696.0 | 697.0 | 698.0 | 699.0 | 700.0 | 701.0 | 696.0 | 694.0 | 62.5° | 48.8 | 41.1 |
| 694.4 | 694.2 | 694.0 | 695.0 | 696.0 | 697.0 | 698.0 | 699.0 | 694.0 | 696.0 | 65° | 48.2 | 41.7 |
| 698.6 | 698.3 | 698.0 | 698.8 | 699.6 | 700.4 | 701.2 | 702.0 | 698.0 | 701.0 | 66° | 47.5 | 41.7 |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 67.5° | 46.6 | 41.1 |
| | | | | | | | | | | 70° | 44.3 | 38.5 |
| | | | | | | | | | | 72.5° | 39.8 | 34.7 |
| | | | | | | | | | | 75° | 34.0 | 27.9 |
| | | | | | | | | | | 77.5° | 27.6 | 22.5 |
| | | | | | | | | | | 80° | 20.6 | 17.0 |
| | | | | | | | | | | 82.5° | 15.1 | 13.2 |
| | | | | | | | | | | 85° | 10.6 | 9.3 |
| | | | | | | | | | | 87.5° | 6.4 | 5.8 |
| | | | | | | | | | | 90° | 10.6 | 8.6 |
| | | | | | | | | | | 92.5° | 7.0 | 7.0 |
| | | | | | | | | | | 95° | 8.0 | 7.0 |
| | | | | | | | | | | 97.5° | 10.0 | 12.0 |
| | | | | | | | | | | 100° | 26.0 | 29.0 |
| | | | | | | | | | | 102.5° | 47.0 | 50.0 |
| | | | | | | | | | | 105° | 70.0 | 72.0 |
| | | | | | | | | | | 107.5° | 94.0 | 95.0 |



REPORT NUMBER: P226899

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

50-LED-E1-SL3-7030-ULG

tinued):

| 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 569.0 | 569.0 | 569.0 | 569.0 | 569.0 | 569.0 |
| 541.7 | 541.4 | 533.4 | 531.8 | 526.3 | 529.2 |
| 495.8 | 490.3 | 475.9 | 473.0 | 466.9 | 465.3 |
| 440.9 | 425.8 | 414.2 | 401.4 | 389.2 | 395.3 |
| 376.7 | 351.3 | 325.9 | 309.2 | 302.5 | 300.2 |
| 315.7 | 270.1 | 238.3 | 205.5 | 194.0 | 198.1 |
| 241.8 | 189.8 | 147.4 | 128.4 | 117.5 | 115.6 |
| 170.5 | 121.7 | 102.1 | 97.3 | 95.0 | 95.0 |
| 115.6 | 92.8 | 85.4 | 83.2 | 83.2 | 83.5 |
| 88.0 | 78.0 | 74.8 | 75.1 | 76.4 | 76.7 |
| 72.9 | 69.0 | 67.4 | 69.7 | 72.3 | 72.6 |
| 62.9 | 62.0 | 62.3 | 65.2 | 67.8 | 68.1 |
| 55.2 | 56.2 | 57.5 | 60.0 | 62.3 | 62.9 |
| 49.8 | 51.4 | 52.3 | 53.9 | 55.2 | 55.6 |
| 45.9 | 47.8 | 47.5 | 48.5 | 49.5 | 49.8 |
| 43.7 | 44.6 | 43.7 | 44.3 | 44.3 | 45.0 |
| 41.7 | 42.1 | 40.5 | 40.8 | 41.4 | 41.4 |
| 39.8 | 39.5 | 37.9 | 38.5 | 39.5 | 39.8 |
| 37.9 | 37.2 | 36.0 | 37.2 | 38.9 | 39.2 |
| 36.3 | 35.6 | 35.0 | 36.6 | 38.5 | 38.9 |
| 35.6 | 35.0 | 34.4 | 36.6 | 38.5 | 38.9 |
| 35.6 | 35.0 | 34.4 | 36.0 | 37.9 | 38.2 |
| 36.0 | 35.3 | 34.0 | 35.6 | 36.9 | 37.2 |
| 36.3 | 35.6 | 33.4 | 34.4 | 35.0 | 35.3 |
| 36.3 | 35.0 | 32.8 | 33.1 | 33.1 | 33.4 |
| 35.6 | 34.0 | 31.5 | 31.5 | 31.1 | 31.1 |
| 35.6 | 32.8 | 30.2 | 29.5 | 28.9 | 28.9 |
| 35.3 | 32.4 | 29.9 | 28.9 | 27.9 | 27.9 |
| 34.7 | 31.8 | 29.2 | 27.9 | 27.0 | 27.0 |
| 32.4 | 30.5 | 27.6 | 26.3 | 25.4 | 25.0 |
| 28.9 | 27.9 | 25.7 | 24.7 | 23.8 | 23.4 |
| 24.4 | 24.7 | 23.4 | 22.8 | 21.8 | 21.5 |
| 20.6 | 21.2 | 20.6 | 20.2 | 19.6 | 19.3 |
| 16.4 | 17.7 | 17.0 | 17.0 | 17.3 | 16.7 |
| 12.5 | 14.1 | 13.5 | 14.1 | 14.8 | 13.8 |
| 8.7 | 10.3 | 10.3 | 10.6 | 10.9 | 10.3 |
| 5.5 | 6.7 | 6.4 | 6.7 | 6.7 | 6.4 |
| 8.3 | 10.2 | 9.3 | 8.9 | 6.6 | 6.3 |
| 6.0 | 6.0 | 6.0 | 5.0 | 4.0 | 4.0 |
| 7.0 | 7.0 | 7.0 | 6.0 | 5.0 | 5.0 |
| 9.0 | 9.0 | 8.0 | 8.0 | 7.0 | 7.0 |
| 21.0 | 12.0 | 10.0 | 9.0 | 8.0 | 8.0 |
| 40.0 | 27.0 | 18.0 | 13.0 | 11.0 | 11.0 |
| 63.0 | 48.0 | 36.0 | 27.0 | 22.0 | 21.0 |
| 88.0 | 73.0 | 58.0 | 49.0 | 42.0 | 41.0 |

CANDELA DISTRIBUTION (continued):

| | 115° | 125° | 135° |
|--------|-------|-------|-------|
| 110° | 121.0 | 120.0 | 114.0 |
| 112.5° | 150.0 | 148.0 | 143.0 |
| 115° | 182.0 | 179.0 | 174.0 |
| 117.5° | 215.0 | 211.0 | 205.0 |
| 120° | 250.0 | 246.0 | 243.0 |
| 122.5° | 283.0 | 279.0 | 277.0 |
| 125° | 315.0 | 313.0 | 310.0 |
| 127.5° | 346.0 | 345.0 | 340.0 |
| 130° | 381.0 | 377.0 | 372.0 |
| 132.5° | 416.0 | 411.0 | 405.0 |
| 135° | 448.0 | 443.0 | 437.0 |
| 137.5° | 475.0 | 473.0 | 468.0 |
| 140° | 502.0 | 500.0 | 497.0 |
| 142.5° | 533.0 | 527.0 | 525.0 |
| 145° | 562.0 | 556.0 | 551.0 |
| 147.5° | 585.0 | 580.0 | 575.0 |
| 150° | 600.0 | 597.0 | 593.0 |
| 152.5° | 614.0 | 611.0 | 610.0 |
| 155° | 631.0 | 626.0 | 628.0 |
| 157.5° | 648.0 | 644.0 | 645.0 |
| 160° | 664.0 | 658.0 | 655.0 |
| 162.5° | 671.0 | 667.0 | 663.0 |
| 165° | 677.0 | 672.0 | 673.0 |
| 167.5° | 684.0 | 678.0 | 685.0 |
| 170° | 689.0 | 686.0 | 691.0 |
| 172.5° | 692.0 | 689.0 | 690.0 |
| 175° | 695.0 | 690.0 | 690.0 |
| 177.5° | 699.0 | 694.0 | 695.0 |
| 180° | 700.0 | 700.0 | 700.0 |



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| 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 102.0 | 87.0 | 74.0 | 68.0 | 66.0 |
| 134.0 | 121.0 | 106.0 | 99.0 | 99.0 |
| 168.0 | 159.0 | 147.0 | 139.0 | 140.0 |
| 202.0 | 197.0 | 189.0 | 184.0 | 184.0 |
| 237.0 | 233.0 | 226.0 | 223.0 | 225.0 |
| 271.0 | 267.0 | 261.0 | 260.0 | 263.0 |
| 305.0 | 299.0 | 296.0 | 294.0 | 298.0 |
| 339.0 | 333.0 | 329.0 | 329.0 | 330.0 |
| 370.0 | 366.0 | 362.0 | 361.0 | 363.0 |
| 404.0 | 401.0 | 393.0 | 394.0 | 396.0 |
| 435.0 | 432.0 | 426.0 | 426.0 | 429.0 |
| 464.0 | 460.0 | 459.0 | 457.0 | 460.0 |
| 491.0 | 489.0 | 487.0 | 485.0 | 488.0 |
| 521.0 | 518.0 | 517.0 | 515.0 | 518.0 |
| 550.0 | 547.0 | 544.0 | 546.0 | 550.0 |
| 574.0 | 574.0 | 571.0 | 572.0 | 575.0 |
| 593.0 | 593.0 | 593.0 | 592.0 | 595.0 |
| 610.0 | 609.0 | 608.0 | 608.0 | 611.0 |
| 630.0 | 627.0 | 625.0 | 625.0 | 629.0 |
| 646.0 | 644.0 | 643.0 | 643.0 | 646.0 |
| 655.0 | 656.0 | 659.0 | 660.0 | 663.0 |
| 661.0 | 665.0 | 669.0 | 669.0 | 673.0 |
| 673.0 | 676.0 | 676.0 | 678.0 | 681.0 |
| 688.0 | 686.0 | 684.0 | 687.0 | 690.0 |
| 693.0 | 692.0 | 692.0 | 695.0 | 698.0 |
| 690.0 | 693.0 | 695.0 | 697.0 | 699.0 |
| 691.0 | 695.0 | 697.0 | 698.0 | 700.0 |
| 697.0 | 699.0 | 700.0 | 705.0 | 707.0 |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |

(END OF REPORT)