

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: P227011

Luminaire Tested: **ISW-AF-800-LED-E1-SL4-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35947)-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-800-LED-E1-SL4-8030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCUELED OPTICS-TYPE IV W/SPILL CONTROL, 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: 5475.3 lumens
Efficiency: N/A
Efficacy: 91.0 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: B1 - U5 - G1

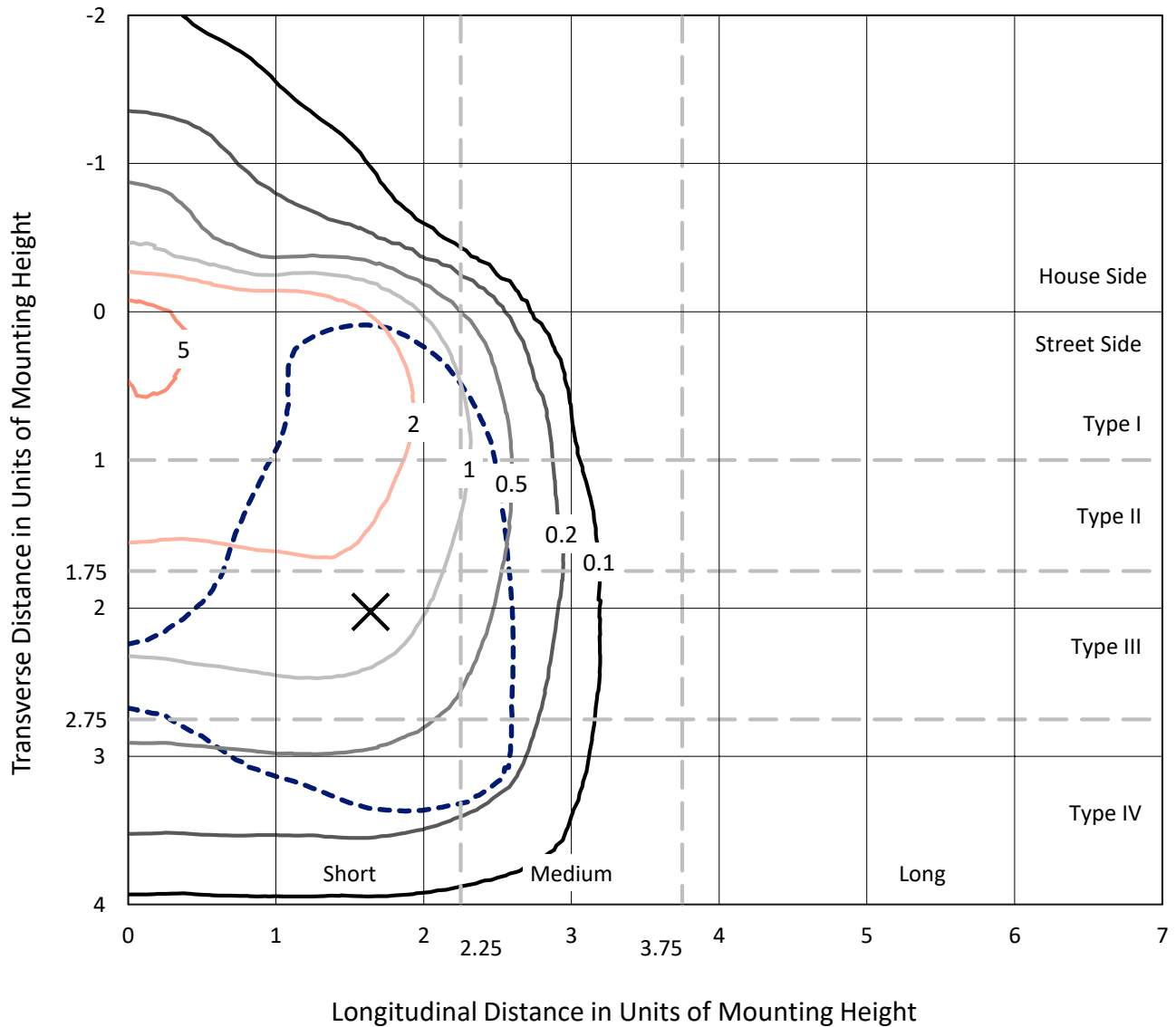
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

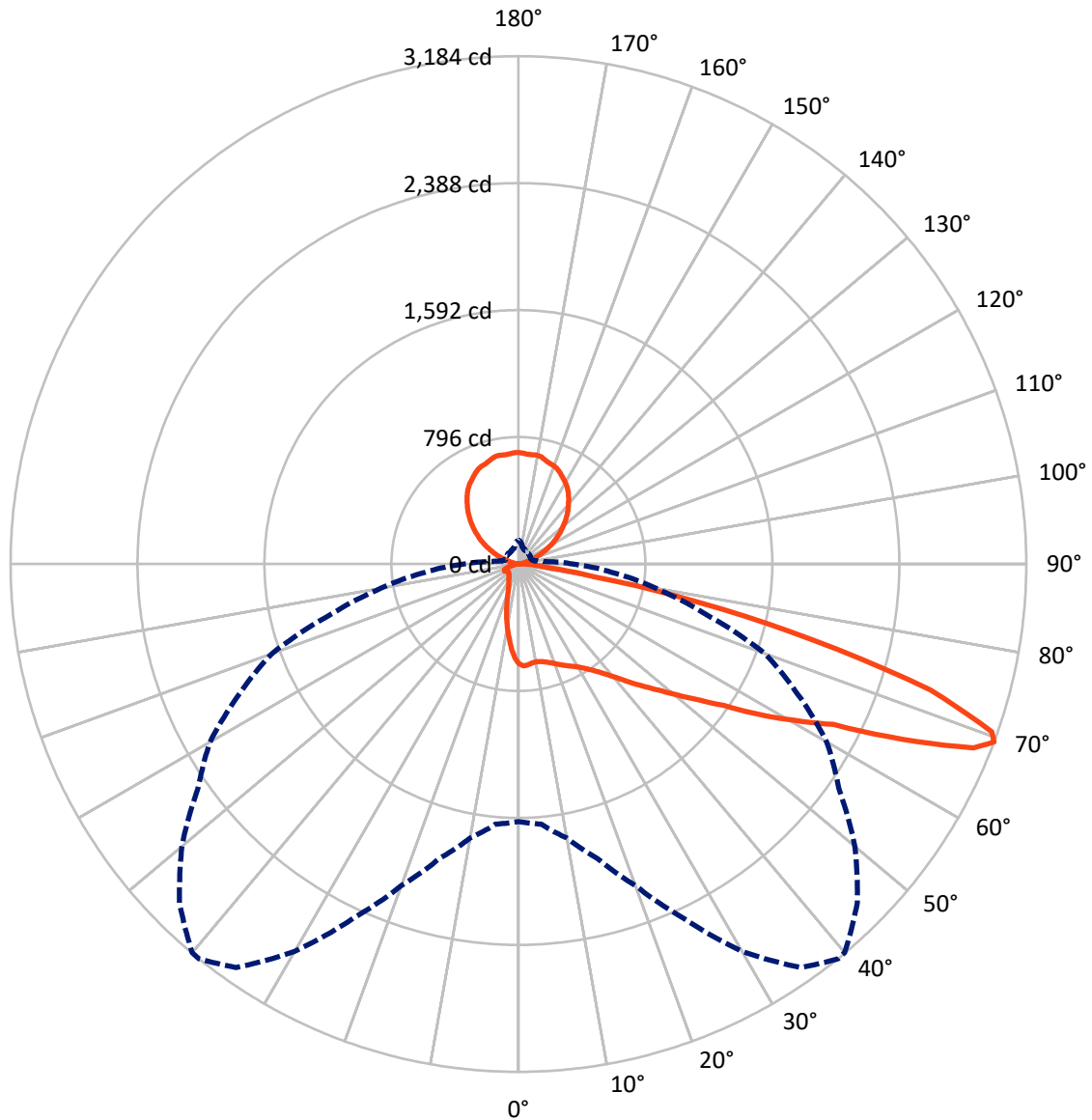
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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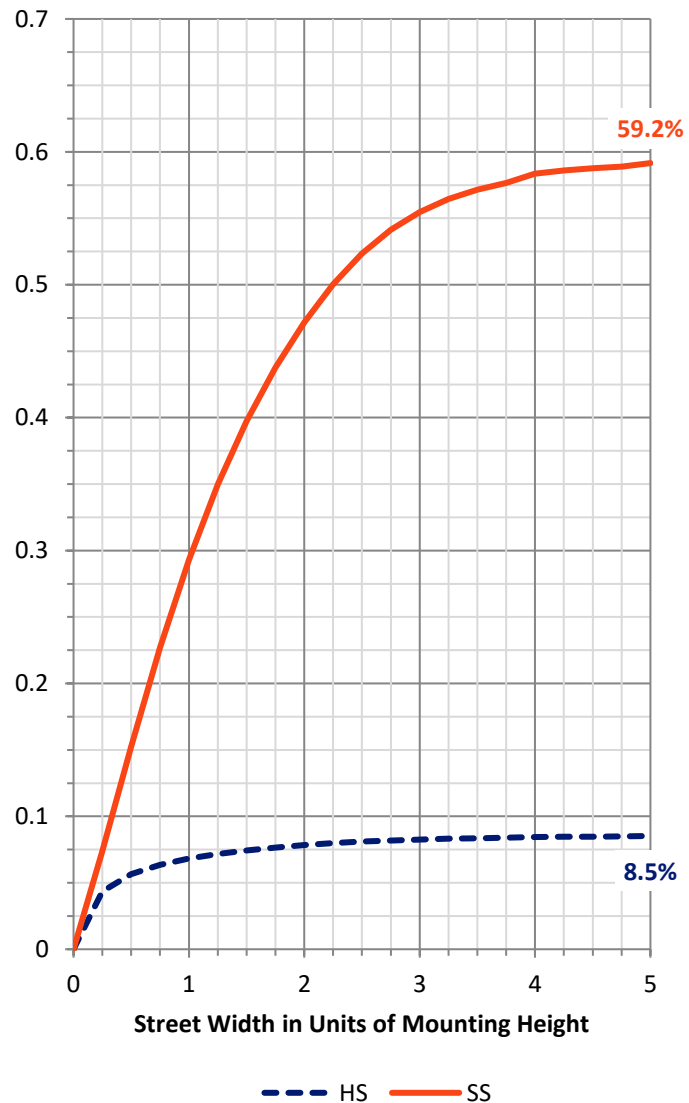
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 473.6 | 867.7 | 1341.3 |
| | % Fixture | 8.6 | 15.8 | 24.5 |
| Street Side | Lumens | 3265.6 | 868.5 | 4134.1 |
| | % Fixture | 59.6 | 15.9 | 75.5 |
| Total | Lumens | 3739.2 | 1736.2 | 5475.3 |
| | % Fixture | 68.3 | 31.7 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.1 | 1.0 |
| 10°-20° | 136.3 | 2.5 |
| 20°-30° | 212.2 | 3.9 |
| 30°-40° | 320.7 | 5.9 |
| 40°-50° | 513.1 | 9.4 |
| 50°-60° | 806.5 | 14.7 |
| 60°-70° | 1085.9 | 19.8 |
| 70°-80° | 538.6 | 9.8 |
| 80°-90° | 71.8 | 1.3 |
| 90°-100° | 10.3 | 0.2 |
| 100°-110° | 57.4 | 1.0 |
| 110°-120° | 166.1 | 3.0 |
| 120°-130° | 273.2 | 5.0 |
| 130°-140° | 336.8 | 6.2 |
| 140°-150° | 344.6 | 6.3 |
| 150°-160° | 290.3 | 5.3 |
| 160°-170° | 191.2 | 3.5 |
| 170°-180° | 66.3 | 1.2 |
| 0°-90° | 3739.2 | 68.3 |
| 0°-180° | 5475.3 | 100.0 |

Coefficient of Utilization



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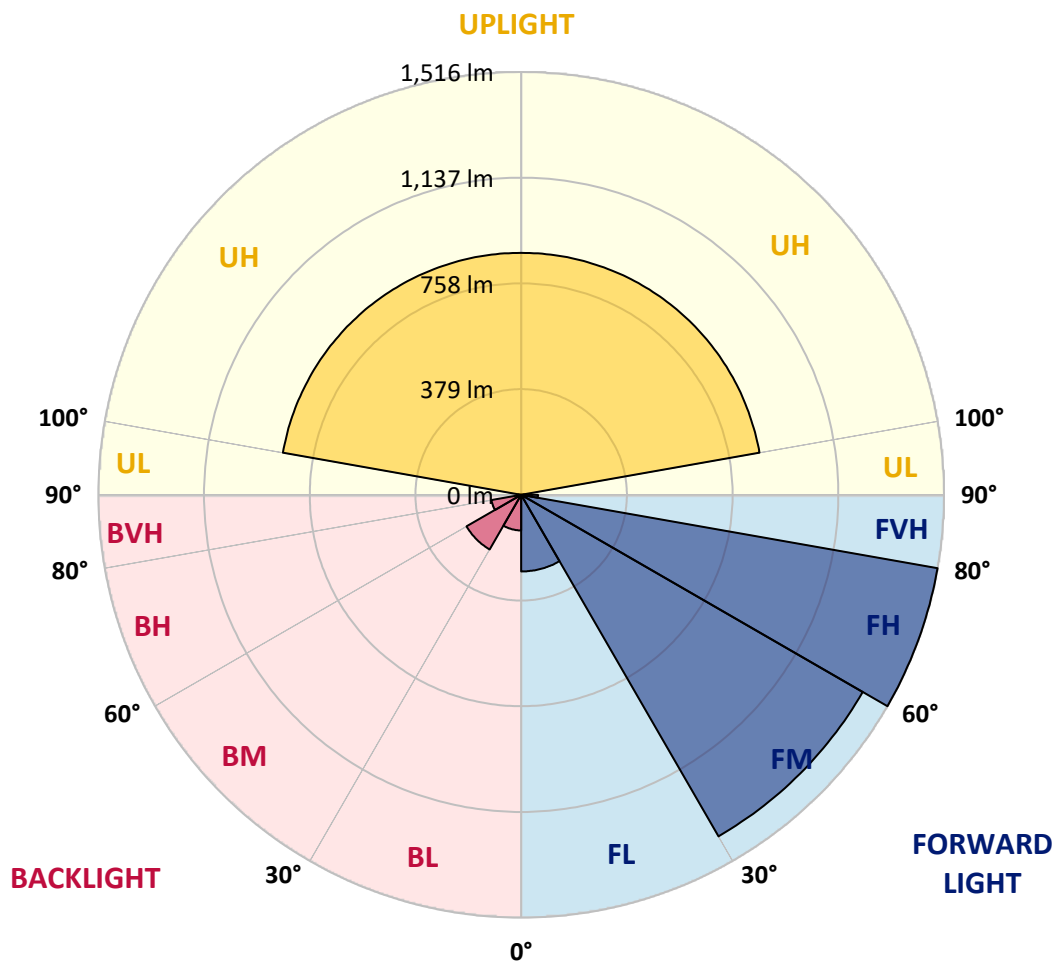
CATALOG NUMBER: ISW-AF-800-LED-E1-SL4-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|---------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 274.9 | 5.0 | | | |
| FM | (30°-60°) | 1414.3 | 25.8 | | | |
| FH | (60°-80°) | 1516.3 | 27.7 | | | G1/1800 |
| FVH | (80°-90°) | 60.1 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 127.6 | 2.3 | B1/500 | | |
| BM | (30°-60°) | 226.0 | 4.1 | B1/1000 | | |
| BH | (60°-80°) | 108.3 | 2.0 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 11.7 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 10.3 | 0.2 | | U2/50 | |
| UH | (100°-180°) | 867.7 | 15.8 | | U4/1000 | |

BUG Rating: B1-U5-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 39° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 |
| 2.5° | 641.4 | 642.1 | 642.1 | 642.7 | 640.2 | 640.2 | 640.8 | 638.4 | 639.6 | 639.0 | 636.0 |
| 5° | 642.7 | 643.3 | 642.7 | 643.3 | 640.2 | 639.0 | 636.6 | 633.6 | 634.8 | 634.2 | 629.9 |
| 7.5° | 639.6 | 640.2 | 639.0 | 639.6 | 636.0 | 633.6 | 629.9 | 627.5 | 625.7 | 625.1 | 619.6 |
| 10° | 633.0 | 634.8 | 632.3 | 634.2 | 631.1 | 628.7 | 626.9 | 624.5 | 623.2 | 622.6 | 616.6 |
| 12.5° | 623.2 | 624.5 | 625.1 | 627.5 | 627.5 | 628.1 | 628.1 | 626.3 | 626.9 | 626.3 | 621.4 |
| 15° | 614.1 | 618.4 | 622.6 | 625.1 | 629.9 | 633.0 | 635.4 | 634.8 | 636.6 | 636.0 | 633.0 |
| 17.5° | 614.1 | 617.8 | 625.1 | 633.0 | 642.1 | 646.3 | 649.9 | 649.9 | 650.6 | 649.3 | 644.5 |
| 20° | 616.6 | 623.2 | 635.4 | 648.7 | 659.7 | 668.2 | 670.6 | 670.0 | 667.5 | 667.5 | 659.0 |
| 22.5° | 636.6 | 640.8 | 654.2 | 668.8 | 683.9 | 692.4 | 693.0 | 691.2 | 686.4 | 685.1 | 674.8 |
| 25° | 665.1 | 670.0 | 682.1 | 700.9 | 712.5 | 719.1 | 717.3 | 711.2 | 706.4 | 702.1 | 691.2 |
| 27.5° | 709.4 | 713.1 | 725.2 | 737.9 | 744.6 | 747.0 | 739.8 | 731.3 | 725.8 | 724.0 | 709.4 |
| 30° | 754.9 | 759.8 | 769.5 | 777.4 | 782.8 | 775.6 | 764.0 | 754.3 | 749.5 | 748.3 | 734.9 |
| 32.5° | 810.8 | 811.4 | 818.0 | 819.9 | 820.5 | 808.3 | 792.6 | 783.5 | 781.6 | 779.2 | 768.9 |
| 35° | 861.7 | 864.8 | 863.6 | 863.0 | 857.5 | 842.3 | 829.0 | 823.5 | 821.7 | 821.1 | 812.6 |
| 37.5° | 907.3 | 912.1 | 909.1 | 903.6 | 896.9 | 884.8 | 870.8 | 864.8 | 870.8 | 867.2 | 869.0 |
| 40° | 951.6 | 951.6 | 947.9 | 944.9 | 937.0 | 925.5 | 920.6 | 921.2 | 930.9 | 933.3 | 935.8 |
| 42.5° | 989.8 | 989.2 | 985.5 | 983.1 | 981.9 | 979.5 | 977.0 | 988.6 | 1007.4 | 1011.0 | 1016.5 |
| 45° | 1031.7 | 1031.1 | 1017.1 | 1022.0 | 1030.4 | 1032.3 | 1040.8 | 1067.5 | 1090.5 | 1092.3 | 1103.9 |
| 47.5° | 1072.3 | 1067.5 | 1054.1 | 1059.0 | 1083.2 | 1096.0 | 1109.9 | 1147.6 | 1179.7 | 1186.4 | 1218.6 |
| 50° | 1114.8 | 1109.9 | 1095.4 | 1104.5 | 1138.5 | 1162.1 | 1194.9 | 1247.1 | 1291.4 | 1300.5 | 1342.4 |
| 52.5° | 1159.1 | 1158.5 | 1147.0 | 1160.9 | 1202.8 | 1250.7 | 1302.3 | 1361.2 | 1415.2 | 1426.7 | 1488.6 |
| 55° | 1212.5 | 1209.5 | 1204.6 | 1221.6 | 1281.1 | 1345.4 | 1426.1 | 1506.2 | 1565.1 | 1585.7 | 1648.2 |
| 57.5° | 1272.6 | 1271.4 | 1272.0 | 1307.2 | 1378.8 | 1476.5 | 1575.4 | 1683.4 | 1780.5 | 1795.1 | 1853.3 |
| 60° | 1324.8 | 1327.2 | 1341.2 | 1396.4 | 1486.2 | 1618.5 | 1757.5 | 1903.7 | 1989.9 | 2005.1 | 2062.1 |
| 62.5° | 1388.5 | 1402.5 | 1433.4 | 1503.2 | 1608.8 | 1769.0 | 1949.2 | 2104.0 | 2215.0 | 2246.0 | 2354.0 |
| 65° | 1541.4 | 1552.3 | 1610.0 | 1694.3 | 1829.1 | 2034.2 | 2241.1 | 2466.3 | 2649.5 | 2677.5 | 2770.3 |
| 67.5° | 1653.1 | 1681.0 | 1771.4 | 1909.2 | 2104.0 | 2366.1 | 2650.2 | 2922.6 | 3077.4 | 3090.1 | 3025.2 |
| 69° | 1614.2 | 1637.3 | 1744.1 | 1910.4 | 2145.2 | 2450.5 | 2803.7 | 3088.3 | 3183.6 | 3181.2 | 3004.6 |
| 70° | 1554.8 | 1576.0 | 1693.7 | 1855.2 | 2110.7 | 2440.8 | 2806.1 | 3089.5 | 3147.2 | 3125.3 | 2923.2 |
| 72.5° | 1302.3 | 1321.1 | 1431.6 | 1600.3 | 1847.9 | 2175.6 | 2519.7 | 2713.3 | 2701.1 | 2682.9 | 2349.2 |
| 75° | 813.2 | 812.0 | 908.5 | 1006.2 | 1198.5 | 1529.9 | 1786.0 | 1941.3 | 1916.5 | 1902.5 | 1508.0 |
| 77.5° | 304.0 | 325.3 | 360.5 | 465.5 | 554.1 | 733.1 | 940.0 | 1113.0 | 1160.9 | 1099.6 | 812.0 |
| 80° | 158.4 | 169.9 | 193.0 | 230.0 | 264.6 | 302.8 | 364.1 | 468.5 | 484.9 | 452.1 | 327.7 |
| 82.5° | 125.0 | 139.0 | 162.0 | 193.6 | 217.9 | 203.3 | 191.8 | 198.4 | 197.2 | 188.1 | 166.9 |
| 85° | 94.7 | 111.1 | 148.7 | 180.8 | 215.4 | 182.1 | 145.0 | 126.8 | 112.9 | 113.5 | 120.8 |
| 87.5° | 47.3 | 61.3 | 117.1 | 157.8 | 187.5 | 120.8 | 94.7 | 73.4 | 61.3 | 58.9 | 78.9 |
| 90° | 19.6 | 19.6 | 29.7 | 37.9 | 50.0 | 29.2 | 28.6 | 23.8 | 19.1 | 19.0 | 25.2 |
| 92.5° | 4.0 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 95° | 5.0 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 97.5° | 7.0 | 7.0 | 7.5 | 8.0 | 8.0 | 8.0 | 8.5 | 9.0 | 9.0 | 9.0 | 9.0 |
| 100° | 8.0 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 15.6 | 16.5 | 21.0 |
| 102.5° | 11.0 | 11.0 | 12.0 | 13.0 | 15.5 | 18.0 | 22.5 | 27.0 | 32.2 | 33.5 | 40.0 |
| 105° | 21.0 | 22.0 | 24.5 | 27.0 | 31.5 | 36.0 | 42.0 | 48.0 | 54.0 | 55.5 | 63.0 |
| 107.5° | 41.0 | 42.0 | 45.5 | 49.0 | 53.5 | 58.0 | 65.5 | 73.0 | 79.0 | 80.5 | 88.0 |



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CATALOG NUMBER: ISW-AF-800-LED-E1-SL4-8030-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 39° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 66.0 | 68.0 | 71.0 | 74.0 | 80.5 | 87.0 | 94.5 | 102.0 | 106.8 | 108.0 | 114.0 |
| 112.5° | 99.0 | 99.0 | 102.5 | 106.0 | 113.5 | 121.0 | 127.5 | 134.0 | 137.6 | 138.5 | 143.0 |
| 115° | 140.0 | 139.0 | 143.0 | 147.0 | 153.0 | 159.0 | 163.5 | 168.0 | 170.4 | 171.0 | 174.0 |
| 117.5° | 184.0 | 184.0 | 186.5 | 189.0 | 193.0 | 197.0 | 199.5 | 202.0 | 203.2 | 203.5 | 205.0 |
| 120° | 225.0 | 223.0 | 224.5 | 226.0 | 229.5 | 233.0 | 235.0 | 237.0 | 239.4 | 240.0 | 243.0 |
| 122.5° | 263.0 | 260.0 | 260.5 | 261.0 | 264.0 | 267.0 | 269.0 | 271.0 | 273.4 | 274.0 | 277.0 |
| 125° | 298.0 | 294.0 | 295.0 | 296.0 | 297.5 | 299.0 | 302.0 | 305.0 | 307.0 | 307.5 | 310.0 |
| 127.5° | 330.0 | 329.0 | 329.0 | 329.0 | 331.0 | 333.0 | 336.0 | 339.0 | 339.4 | 339.5 | 340.0 |
| 130° | 363.0 | 361.0 | 361.5 | 362.0 | 364.0 | 366.0 | 368.0 | 370.0 | 370.8 | 371.0 | 372.0 |
| 132.5° | 396.0 | 394.0 | 393.5 | 393.0 | 397.0 | 401.0 | 402.5 | 404.0 | 404.4 | 404.5 | 405.0 |
| 135° | 429.0 | 426.0 | 426.0 | 426.0 | 429.0 | 432.0 | 433.5 | 435.0 | 435.8 | 436.0 | 437.0 |
| 137.5° | 460.0 | 457.0 | 458.0 | 459.0 | 459.5 | 460.0 | 462.0 | 464.0 | 465.6 | 466.0 | 468.0 |
| 140° | 488.0 | 485.0 | 486.0 | 487.0 | 488.0 | 489.0 | 490.0 | 491.0 | 493.4 | 494.0 | 497.0 |
| 142.5° | 518.0 | 515.0 | 516.0 | 517.0 | 517.5 | 518.0 | 519.5 | 521.0 | 522.6 | 523.0 | 525.0 |
| 145° | 550.0 | 546.0 | 545.0 | 544.0 | 545.5 | 547.0 | 548.5 | 550.0 | 550.4 | 550.5 | 551.0 |
| 147.5° | 575.0 | 572.0 | 571.5 | 571.0 | 572.5 | 574.0 | 574.0 | 574.0 | 574.4 | 574.5 | 575.0 |
| 150° | 595.0 | 592.0 | 592.5 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 |
| 152.5° | 611.0 | 608.0 | 608.0 | 608.0 | 608.5 | 609.0 | 609.5 | 610.0 | 610.0 | 610.0 | 610.0 |
| 155° | 629.0 | 625.0 | 625.0 | 625.0 | 626.0 | 627.0 | 628.5 | 630.0 | 629.2 | 629.0 | 628.0 |
| 157.5° | 646.0 | 643.0 | 643.0 | 643.0 | 643.5 | 644.0 | 645.0 | 646.0 | 645.6 | 645.5 | 645.0 |
| 160° | 663.0 | 660.0 | 659.5 | 659.0 | 657.5 | 656.0 | 655.5 | 655.0 | 655.0 | 655.0 | 655.0 |
| 162.5° | 673.0 | 669.0 | 669.0 | 669.0 | 667.0 | 665.0 | 663.0 | 661.0 | 661.8 | 662.0 | 663.0 |
| 165° | 681.0 | 678.0 | 677.0 | 676.0 | 676.0 | 676.0 | 674.5 | 673.0 | 673.0 | 673.0 | 673.0 |
| 167.5° | 690.0 | 687.0 | 685.5 | 684.0 | 685.0 | 686.0 | 687.0 | 688.0 | 686.8 | 686.5 | 685.0 |
| 170° | 698.0 | 695.0 | 693.5 | 692.0 | 692.0 | 692.0 | 692.5 | 693.0 | 692.2 | 692.0 | 691.0 |
| 172.5° | 699.0 | 697.0 | 696.0 | 695.0 | 694.0 | 693.0 | 691.5 | 690.0 | 690.0 | 690.0 | 690.0 |
| 175° | 700.0 | 698.0 | 697.5 | 697.0 | 696.0 | 695.0 | 693.0 | 691.0 | 690.6 | 690.5 | 690.0 |
| 177.5° | 707.0 | 705.0 | 702.5 | 700.0 | 699.5 | 699.0 | 698.0 | 697.0 | 696.2 | 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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CATALOG NUMBER: ISW-AF-800-LED-E1-SL4-8030-ULG

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 |
| 2.5° | 633.6 | 633.6 | 632.3 | 631.7 | 629.9 | 627.5 | 625.7 | 622.6 | 620.8 | 617.8 | 614.1 |
| 5° | 625.7 | 623.2 | 622.0 | 619.6 | 616.0 | 612.9 | 609.3 | 605.0 | 600.2 | 594.1 | 587.4 |
| 7.5° | 615.4 | 611.7 | 607.5 | 606.3 | 602.0 | 598.4 | 594.1 | 588.0 | 581.4 | 570.4 | 562.0 |
| 10° | 611.1 | 607.5 | 603.8 | 601.4 | 595.9 | 591.7 | 586.8 | 578.9 | 570.4 | 555.9 | 540.1 |
| 12.5° | 615.4 | 611.7 | 608.1 | 603.8 | 599.0 | 594.1 | 587.4 | 577.7 | 566.2 | 547.4 | 528.0 |
| 15° | 625.7 | 622.0 | 616.0 | 611.7 | 605.0 | 600.8 | 591.7 | 580.8 | 563.8 | 540.7 | 515.2 |
| 17.5° | 637.2 | 631.7 | 626.3 | 619.6 | 613.5 | 608.1 | 598.4 | 584.4 | 563.2 | 535.9 | 503.1 |
| 20° | 648.1 | 642.1 | 633.6 | 628.7 | 622.6 | 614.7 | 604.4 | 587.4 | 562.0 | 526.1 | 490.3 |
| 22.5° | 660.9 | 653.0 | 643.9 | 638.4 | 633.6 | 626.9 | 614.7 | 592.9 | 562.0 | 520.7 | 475.8 |
| 25° | 677.3 | 666.9 | 657.8 | 652.4 | 649.3 | 644.5 | 629.9 | 605.6 | 566.2 | 517.7 | 463.6 |
| 27.5° | 696.7 | 683.3 | 675.4 | 671.8 | 671.2 | 667.5 | 653.0 | 622.6 | 575.9 | 517.7 | 452.1 |
| 30° | 719.7 | 708.2 | 697.9 | 697.9 | 705.2 | 702.7 | 686.4 | 648.7 | 591.1 | 519.5 | 443.6 |
| 32.5° | 751.9 | 740.4 | 734.3 | 740.4 | 748.3 | 750.7 | 731.9 | 685.8 | 616.0 | 528.0 | 435.1 |
| 35° | 799.2 | 792.0 | 787.7 | 796.8 | 812.6 | 818.7 | 795.6 | 741.0 | 652.4 | 544.4 | 430.3 |
| 37.5° | 861.7 | 856.3 | 850.8 | 866.6 | 896.3 | 908.5 | 875.1 | 804.7 | 704.6 | 571.7 | 427.8 |
| 40° | 933.3 | 934.0 | 940.0 | 971.6 | 1000.1 | 1025.6 | 988.0 | 901.2 | 776.2 | 610.5 | 430.3 |
| 42.5° | 1018.3 | 1025.0 | 1045.6 | 1089.3 | 1144.5 | 1164.6 | 1128.2 | 1017.7 | 865.4 | 657.2 | 436.3 |
| 45° | 1123.9 | 1141.5 | 1176.7 | 1241.6 | 1308.4 | 1339.3 | 1287.8 | 1164.6 | 977.6 | 731.9 | 453.3 |
| 47.5° | 1236.2 | 1275.0 | 1334.5 | 1413.4 | 1491.1 | 1511.1 | 1447.4 | 1297.5 | 1087.5 | 798.0 | 479.4 |
| 50° | 1380.0 | 1427.3 | 1486.8 | 1581.5 | 1664.0 | 1676.1 | 1591.8 | 1420.7 | 1183.4 | 855.7 | 504.3 |
| 52.5° | 1514.1 | 1578.4 | 1654.3 | 1764.1 | 1847.9 | 1832.7 | 1723.5 | 1530.5 | 1259.2 | 895.1 | 518.3 |
| 55° | 1697.4 | 1764.1 | 1849.7 | 1945.6 | 2028.7 | 1992.3 | 1843.0 | 1624.0 | 1319.9 | 924.2 | 522.5 |
| 57.5° | 1906.8 | 1957.7 | 2041.5 | 2139.8 | 2194.4 | 2131.9 | 1960.8 | 1715.0 | 1377.6 | 924.9 | 489.1 |
| 60° | 2112.5 | 2171.9 | 2264.2 | 2360.7 | 2391.0 | 2283.0 | 2042.7 | 1728.9 | 1320.5 | 825.3 | 391.4 |
| 62.5° | 2417.1 | 2477.2 | 2523.9 | 2539.7 | 2485.1 | 2267.8 | 1947.4 | 1581.5 | 1138.5 | 651.2 | 277.3 |
| 65° | 2757.6 | 2689.6 | 2599.2 | 2514.2 | 2365.5 | 2035.4 | 1679.2 | 1299.3 | 883.6 | 435.1 | 191.2 |
| 67.5° | 2846.8 | 2639.8 | 2443.2 | 2253.9 | 1976.5 | 1620.9 | 1266.5 | 913.9 | 566.8 | 247.6 | 129.9 |
| 69° | 2753.9 | 2451.7 | 2232.6 | 1932.2 | 1645.8 | 1213.1 | 872.7 | 585.6 | 338.6 | 172.3 | 108.6 |
| 70° | 2584.0 | 2269.7 | 1972.9 | 1651.3 | 1275.0 | 926.7 | 580.2 | 383.5 | 220.9 | 125.6 | 97.7 |
| 72.5° | 1949.8 | 1559.0 | 1201.6 | 780.4 | 475.8 | 264.0 | 185.7 | 132.9 | 105.0 | 92.2 | 83.7 |
| 75° | 1127.5 | 750.7 | 491.6 | 262.2 | 155.4 | 115.3 | 100.7 | 89.8 | 83.1 | 80.1 | 72.8 |
| 77.5° | 475.8 | 297.4 | 201.5 | 147.5 | 104.4 | 89.2 | 77.7 | 71.6 | 71.0 | 69.2 | 62.5 |
| 80° | 216.6 | 185.7 | 158.4 | 111.1 | 79.5 | 68.0 | 59.5 | 58.3 | 59.5 | 57.7 | 51.0 |
| 82.5° | 160.8 | 158.4 | 132.3 | 85.6 | 60.7 | 45.5 | 37.0 | 38.8 | 43.7 | 47.3 | 41.3 |
| 85° | 134.1 | 134.1 | 111.1 | 63.7 | 40.1 | 29.1 | 28.5 | 32.2 | 36.4 | 39.4 | 33.4 |
| 87.5° | 123.2 | 118.3 | 63.7 | 32.8 | 23.1 | 18.8 | 17.6 | 15.8 | 15.8 | 27.3 | 23.1 |
| 90° | 19.1 | 12.5 | 11.0 | 11.4 | 12.0 | 11.4 | 11.6 | 10.0 | 10.0 | 10.0 | 11.0 |
| 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: P227011

CATALOG NUMBER: ISW-AF-800-LED-E1-SL4-8030-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: P227011

CATALOG NUMBER: ISW-AF-800-LED-E1-SL4-8030-ULG

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 |
| 2.5° | 611.1 | 608.7 | 602.6 | 601.4 | 599.6 | 597.1 | 596.5 | 593.5 | 587.4 | 586.2 | 586.8 |
| 5° | 583.2 | 573.5 | 566.8 | 561.3 | 557.1 | 546.2 | 541.9 | 537.1 | 528.6 | 526.1 | 522.5 |
| 7.5° | 550.4 | 538.9 | 525.5 | 515.8 | 504.3 | 492.8 | 483.7 | 472.1 | 463.0 | 457.6 | 447.9 |
| 10° | 524.9 | 509.2 | 491.6 | 472.1 | 457.0 | 439.4 | 427.8 | 414.5 | 399.9 | 386.6 | 376.9 |
| 12.5° | 505.5 | 483.7 | 458.2 | 435.1 | 413.3 | 394.5 | 373.8 | 355.0 | 336.8 | 318.6 | 302.8 |
| 15° | 489.7 | 462.4 | 430.3 | 401.1 | 374.4 | 346.5 | 323.5 | 297.4 | 274.3 | 258.5 | 238.5 |
| 17.5° | 472.7 | 437.5 | 399.3 | 365.3 | 330.7 | 301.6 | 272.5 | 245.2 | 223.3 | 202.7 | 186.3 |
| 20° | 452.1 | 409.6 | 368.4 | 328.9 | 289.5 | 256.1 | 226.4 | 200.3 | 179.0 | 162.6 | 150.5 |
| 22.5° | 429.0 | 379.3 | 331.3 | 288.3 | 248.8 | 216.0 | 188.1 | 168.7 | 152.9 | 143.8 | 140.2 |
| 25° | 406.6 | 349.6 | 295.5 | 248.2 | 208.8 | 180.8 | 162.0 | 145.6 | 137.8 | 134.1 | 134.1 |
| 27.5° | 386.0 | 319.2 | 259.1 | 213.0 | 174.8 | 152.9 | 138.4 | 131.7 | 128.0 | 128.0 | 129.9 |
| 30° | 366.5 | 288.9 | 224.5 | 177.8 | 147.5 | 131.1 | 123.2 | 120.8 | 121.4 | 123.8 | 126.2 |
| 32.5° | 344.1 | 259.7 | 194.8 | 152.9 | 128.0 | 117.1 | 111.1 | 111.7 | 114.7 | 118.9 | 123.2 |
| 35° | 320.4 | 228.8 | 168.7 | 134.1 | 114.7 | 106.2 | 102.6 | 103.2 | 107.4 | 112.9 | 117.1 |
| 37.5° | 299.2 | 203.9 | 148.7 | 119.6 | 105.0 | 99.5 | 96.5 | 97.1 | 100.1 | 106.8 | 112.3 |
| 40° | 277.9 | 182.7 | 132.3 | 111.1 | 99.5 | 94.1 | 92.2 | 91.6 | 94.1 | 100.1 | 106.8 |
| 42.5° | 259.7 | 164.5 | 122.6 | 105.0 | 95.9 | 91.0 | 88.6 | 88.6 | 89.8 | 94.7 | 101.3 |
| 45° | 248.8 | 153.5 | 115.9 | 100.7 | 92.8 | 88.6 | 86.2 | 85.0 | 86.8 | 89.8 | 95.9 |
| 47.5° | 248.8 | 148.1 | 111.7 | 97.7 | 90.4 | 86.8 | 83.7 | 83.1 | 83.7 | 86.8 | 92.8 |
| 50° | 257.3 | 149.3 | 111.1 | 96.5 | 89.2 | 84.4 | 81.3 | 81.3 | 82.5 | 86.8 | 91.6 |
| 52.5° | 264.6 | 151.7 | 112.9 | 97.7 | 89.2 | 83.1 | 79.5 | 78.9 | 80.7 | 85.0 | 89.2 |
| 55° | 263.4 | 151.7 | 114.7 | 99.5 | 91.0 | 83.7 | 78.9 | 78.3 | 79.5 | 83.7 | 88.0 |
| 57.5° | 235.5 | 142.6 | 112.9 | 100.7 | 93.5 | 86.8 | 81.9 | 80.1 | 81.3 | 85.0 | 88.6 |
| 60° | 190.6 | 126.8 | 108.0 | 100.7 | 97.1 | 92.2 | 87.4 | 86.2 | 86.8 | 90.4 | 94.7 |
| 62.5° | 149.3 | 112.9 | 102.0 | 100.1 | 98.9 | 96.5 | 94.7 | 93.5 | 93.5 | 96.5 | 100.1 |
| 65° | 121.4 | 102.0 | 97.1 | 97.7 | 98.9 | 98.3 | 97.7 | 97.1 | 97.1 | 98.9 | 102.6 |
| 67.5° | 101.3 | 91.6 | 90.4 | 92.2 | 93.5 | 94.1 | 94.7 | 94.1 | 94.7 | 96.5 | 100.7 |
| 69° | 92.2 | 86.2 | 85.0 | 86.2 | 88.6 | 89.2 | 90.4 | 89.8 | 90.4 | 92.2 | 96.5 |
| 70° | 86.8 | 81.9 | 80.7 | 82.5 | 84.4 | 85.0 | 86.2 | 85.6 | 86.2 | 88.0 | 92.2 |
| 72.5° | 75.3 | 69.8 | 68.0 | 69.2 | 71.0 | 71.0 | 72.8 | 73.4 | 72.2 | 72.8 | 75.9 |
| 75° | 64.3 | 58.3 | 55.2 | 55.8 | 55.8 | 55.8 | 57.0 | 57.0 | 55.8 | 55.2 | 55.8 |
| 77.5° | 54.0 | 47.3 | 43.7 | 43.7 | 43.7 | 43.1 | 41.3 | 41.9 | 42.5 | 41.9 | 42.5 |
| 80° | 42.5 | 37.0 | 33.4 | 33.4 | 33.4 | 32.2 | 31.6 | 31.6 | 32.8 | 34.0 | 33.4 |
| 82.5° | 32.8 | 27.3 | 25.5 | 24.9 | 24.9 | 23.7 | 23.7 | 24.9 | 24.3 | 24.9 | 26.1 |
| 85° | 23.7 | 19.4 | 17.6 | 18.2 | 17.6 | 16.4 | 17.0 | 18.8 | 18.8 | 18.2 | 19.4 |
| 87.5° | 14.6 | 12.1 | 11.5 | 12.1 | 10.9 | 9.1 | 8.5 | 9.1 | 10.3 | 9.7 | 10.9 |
| 90° | 10.8 | 10.2 | 10.2 | 9.2 | 8.8 | 8.2 | 8.2 | 8.7 | 9.8 | 9.8 | 9.2 |
| 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: P227011
 CATALOG NUMBER: ISW-AF-800-LED-E1-SL4-8030-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 110° | 119.0 | 120.0 | 121.0 | 120.5 | 120.0 | 117.0 | 114.0 | 108.0 | 102.0 | 94.5 | 87.0 | 0° |
| 112.5° | 149.0 | 149.5 | 150.0 | 149.0 | 148.0 | 145.5 | 143.0 | 138.5 | 134.0 | 127.5 | 121.0 | 2.5° |
| 115° | 179.0 | 180.5 | 182.0 | 180.5 | 179.0 | 176.5 | 174.0 | 171.0 | 168.0 | 163.5 | 159.0 | 5° |
| 117.5° | 210.0 | 212.5 | 215.0 | 213.0 | 211.0 | 208.0 | 205.0 | 203.5 | 202.0 | 199.5 | 197.0 | 7.5° |
| 120° | 245.0 | 247.5 | 250.0 | 248.0 | 246.0 | 244.5 | 243.0 | 240.0 | 237.0 | 235.0 | 233.0 | 10° |
| 122.5° | 278.0 | 280.5 | 283.0 | 281.0 | 279.0 | 278.0 | 277.0 | 274.0 | 271.0 | 269.0 | 267.0 | 12.5° |
| 125° | 310.0 | 312.5 | 315.0 | 314.0 | 313.0 | 311.5 | 310.0 | 307.5 | 305.0 | 302.0 | 299.0 | 15° |
| 127.5° | 346.0 | 346.0 | 346.0 | 345.5 | 345.0 | 342.5 | 340.0 | 339.5 | 339.0 | 336.0 | 333.0 | 17.5° |
| 130° | 381.0 | 381.0 | 381.0 | 379.0 | 377.0 | 374.5 | 372.0 | 371.0 | 370.0 | 368.0 | 366.0 | 20° |
| 132.5° | 414.0 | 415.0 | 416.0 | 413.5 | 411.0 | 408.0 | 405.0 | 404.5 | 404.0 | 402.5 | 401.0 | 22.5° |
| 135° | 447.0 | 447.5 | 448.0 | 445.5 | 443.0 | 440.0 | 437.0 | 436.0 | 435.0 | 433.5 | 432.0 | 25° |
| 137.5° | 476.0 | 475.5 | 475.0 | 474.0 | 473.0 | 470.5 | 468.0 | 466.0 | 464.0 | 462.0 | 460.0 | 27.5° |
| 140° | 504.0 | 503.0 | 502.0 | 501.0 | 500.0 | 498.5 | 497.0 | 494.0 | 491.0 | 490.0 | 489.0 | 30° |
| 142.5° | 533.0 | 533.0 | 533.0 | 530.0 | 527.0 | 526.0 | 525.0 | 523.0 | 521.0 | 519.5 | 518.0 | 32.5° |
| 145° | 561.0 | 561.5 | 562.0 | 559.0 | 556.0 | 553.5 | 551.0 | 550.5 | 550.0 | 548.5 | 547.0 | 35° |
| 147.5° | 586.0 | 585.5 | 585.0 | 582.5 | 580.0 | 577.5 | 575.0 | 574.5 | 574.0 | 574.0 | 574.0 | 37.5° |
| 150° | 603.0 | 601.5 | 600.0 | 598.5 | 597.0 | 595.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 40° |
| 152.5° | 618.0 | 616.0 | 614.0 | 612.5 | 611.0 | 610.5 | 610.0 | 610.0 | 610.0 | 609.5 | 609.0 | 42.5° |
| 155° | 636.0 | 633.5 | 631.0 | 628.5 | 626.0 | 627.0 | 628.0 | 629.0 | 630.0 | 628.5 | 627.0 | 45° |
| 157.5° | 650.0 | 649.0 | 648.0 | 646.0 | 644.0 | 644.5 | 645.0 | 645.5 | 646.0 | 645.0 | 644.0 | 47.5° |
| 160° | 661.0 | 662.5 | 664.0 | 661.0 | 658.0 | 656.5 | 655.0 | 655.0 | 655.0 | 655.5 | 656.0 | 50° |
| 162.5° | 670.0 | 670.5 | 671.0 | 669.0 | 667.0 | 665.0 | 663.0 | 662.0 | 661.0 | 663.0 | 665.0 | 52.5° |
| 165° | 680.0 | 678.5 | 677.0 | 674.5 | 672.0 | 672.5 | 673.0 | 673.0 | 673.0 | 674.5 | 676.0 | 55° |
| 167.5° | 688.0 | 686.0 | 684.0 | 681.0 | 678.0 | 681.5 | 685.0 | 686.5 | 688.0 | 687.0 | 686.0 | 57.5° |
| 170° | 694.0 | 691.5 | 689.0 | 687.5 | 686.0 | 688.5 | 691.0 | 692.0 | 693.0 | 692.5 | 692.0 | 60° |
| 172.5° | 694.0 | 693.0 | 692.0 | 690.5 | 689.0 | 689.5 | 690.0 | 690.0 | 690.0 | 691.5 | 693.0 | 62.5° |
| 175° | 696.0 | 695.5 | 695.0 | 692.5 | 690.0 | 690.0 | 690.0 | 690.5 | 691.0 | 693.0 | 695.0 | 65° |
| 177.5° | 701.0 | 700.0 | 699.0 | 696.5 | 694.0 | 694.5 | 695.0 | 696.0 | 697.0 | 698.0 | 699.0 | 67.5° |
| 180° | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 69° |
| | | | | | | | | | | | | 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: P227011
 NUMBER: ISW-AF-800-LED-E1-SL4-8030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

| 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 626.3 | 626.3 | 626.3 | 626.3 | 626.3 |
| 582.6 | 584.4 | 576.5 | 580.2 | 577.7 |
| 518.9 | 515.8 | 515.2 | 513.4 | 509.8 |
| 444.2 | 441.8 | 434.5 | 436.9 | 431.5 |
| 367.1 | 366.5 | 353.2 | 353.8 | 347.1 |
| 296.1 | 285.2 | 279.8 | 271.9 | 276.1 |
| 229.4 | 220.3 | 208.8 | 205.7 | 210.0 |
| 173.0 | 163.9 | 158.4 | 153.5 | 151.7 |
| 143.2 | 137.8 | 134.7 | 132.9 | 131.7 |
| 138.4 | 137.2 | 136.5 | 135.3 | 134.7 |
| 135.3 | 136.5 | 136.5 | 136.5 | 135.3 |
| 132.3 | 134.7 | 135.3 | 134.7 | 133.5 |
| 129.3 | 131.1 | 131.1 | 130.5 | 128.7 |
| 125.0 | 126.8 | 126.8 | 126.2 | 125.0 |
| 120.2 | 121.4 | 122.0 | 122.0 | 122.6 |
| 116.5 | 117.7 | 118.9 | 120.2 | 122.0 |
| 112.3 | 114.1 | 114.7 | 117.1 | 119.6 |
| 106.8 | 109.2 | 110.4 | 112.3 | 114.7 |
| 101.3 | 104.4 | 105.0 | 107.4 | 109.8 |
| 98.9 | 101.3 | 101.3 | 103.2 | 105.0 |
| 95.9 | 97.1 | 96.5 | 97.7 | 98.3 |
| 92.8 | 94.1 | 93.5 | 94.7 | 95.3 |
| 90.4 | 91.6 | 92.8 | 94.1 | 94.7 |
| 91.6 | 93.5 | 94.1 | 95.9 | 96.5 |
| 97.1 | 99.5 | 102.0 | 104.4 | 106.2 |
| 102.6 | 105.6 | 111.1 | 122.0 | 126.2 |
| 105.6 | 109.8 | 122.6 | 141.4 | 146.9 |
| 103.8 | 109.2 | 124.4 | 144.4 | 151.1 |
| 100.1 | 104.4 | 120.8 | 141.4 | 147.5 |
| 95.3 | 99.5 | 115.9 | 138.4 | 143.8 |
| 77.1 | 79.5 | 97.7 | 118.9 | 122.6 |
| 56.4 | 58.3 | 72.2 | 80.7 | 80.1 |
| 43.7 | 46.1 | 51.0 | 51.6 | 51.0 |
| 34.6 | 35.8 | 38.2 | 38.2 | 38.8 |
| 26.7 | 27.3 | 28.5 | 27.3 | 26.7 |
| 20.0 | 19.4 | 18.8 | 18.2 | 17.6 |
| 11.5 | 11.5 | 9.7 | 8.5 | 7.9 |
| 8.7 | 8.8 | 7.8 | 6.2 | 5.0 |
| 5.5 | 5.0 | 4.5 | 4.0 | 4.0 |
| 6.5 | 6.0 | 5.5 | 5.0 | 5.0 |
| 8.0 | 8.0 | 7.5 | 7.0 | 7.0 |
| 9.5 | 9.0 | 8.5 | 8.0 | 8.0 |
| 15.5 | 13.0 | 12.0 | 11.0 | 11.0 |
| 31.5 | 27.0 | 24.5 | 22.0 | 21.0 |
| 53.5 | 49.0 | 45.5 | 42.0 | 41.0 |

CANDELA DISTRIBUTION:

| | 160° |
|--------|-------|
| 110° | 80.5 |
| 112.5° | 113.5 |
| 115° | 153.0 |
| 117.5° | 193.0 |
| 120° | 229.5 |
| 122.5° | 264.0 |
| 125° | 297.5 |
| 127.5° | 331.0 |
| 130° | 364.0 |
| 132.5° | 397.0 |
| 135° | 429.0 |
| 137.5° | 459.5 |
| 140° | 488.0 |
| 142.5° | 517.5 |
| 145° | 545.5 |
| 147.5° | 572.5 |
| 150° | 593.0 |
| 152.5° | 608.5 |
| 155° | 626.0 |
| 157.5° | 643.5 |
| 160° | 657.5 |
| 162.5° | 667.0 |
| 165° | 676.0 |
| 167.5° | 685.0 |
| 170° | 692.0 |
| 172.5° | 694.0 |
| 175° | 696.0 |
| 177.5° | 699.5 |
| 180° | 700.0 |



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ISW-AF-800-LED-E1-SL4-8030-ULG

TION (continued):

| 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|
| 74.0 | 71.0 | 68.0 | 66.0 |
| 106.0 | 102.5 | 99.0 | 99.0 |
| 147.0 | 143.0 | 139.0 | 140.0 |
| 189.0 | 186.5 | 184.0 | 184.0 |
| 226.0 | 224.5 | 223.0 | 225.0 |
| 261.0 | 260.5 | 260.0 | 263.0 |
| 296.0 | 295.0 | 294.0 | 298.0 |
| 329.0 | 329.0 | 329.0 | 330.0 |
| 362.0 | 361.5 | 361.0 | 363.0 |
| 393.0 | 393.5 | 394.0 | 396.0 |
| 426.0 | 426.0 | 426.0 | 429.0 |
| 459.0 | 458.0 | 457.0 | 460.0 |
| 487.0 | 486.0 | 485.0 | 488.0 |
| 517.0 | 516.0 | 515.0 | 518.0 |
| 544.0 | 545.0 | 546.0 | 550.0 |
| 571.0 | 571.5 | 572.0 | 575.0 |
| 593.0 | 592.5 | 592.0 | 595.0 |
| 608.0 | 608.0 | 608.0 | 611.0 |
| 625.0 | 625.0 | 625.0 | 629.0 |
| 643.0 | 643.0 | 643.0 | 646.0 |
| 659.0 | 659.5 | 660.0 | 663.0 |
| 669.0 | 669.0 | 669.0 | 673.0 |
| 676.0 | 677.0 | 678.0 | 681.0 |
| 684.0 | 685.5 | 687.0 | 690.0 |
| 692.0 | 693.5 | 695.0 | 698.0 |
| 695.0 | 696.0 | 697.0 | 699.0 |
| 697.0 | 697.5 | 698.0 | 700.0 |
| 700.0 | 702.5 | 705.0 | 707.0 |
| 700.0 | 700.0 | 700.0 | 700.0 |

(END OF REPORT)