

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: P227010

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227010
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-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6463.5 lumens
Efficiency: N/A
Efficacy: 107.4 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 - G2

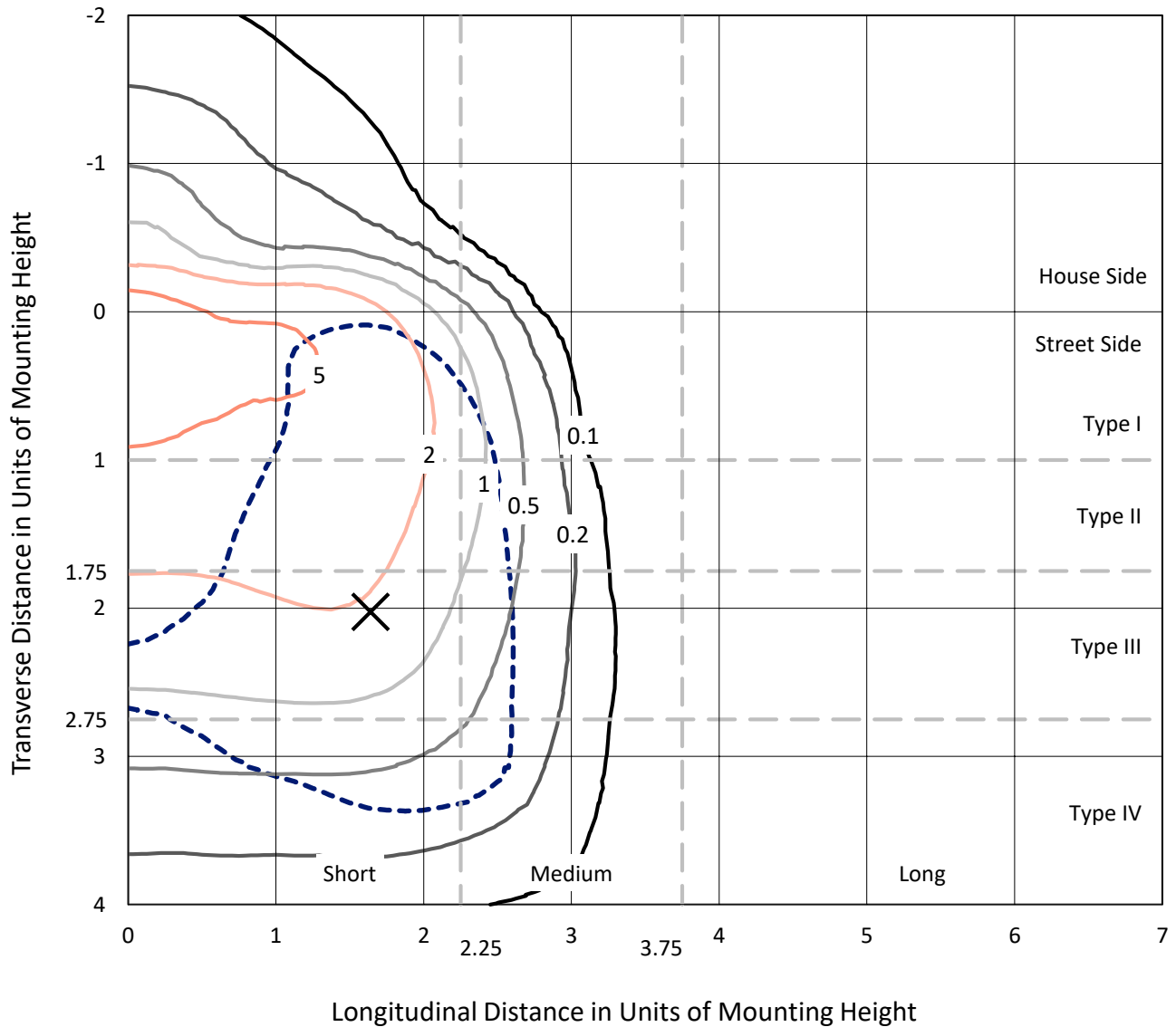
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

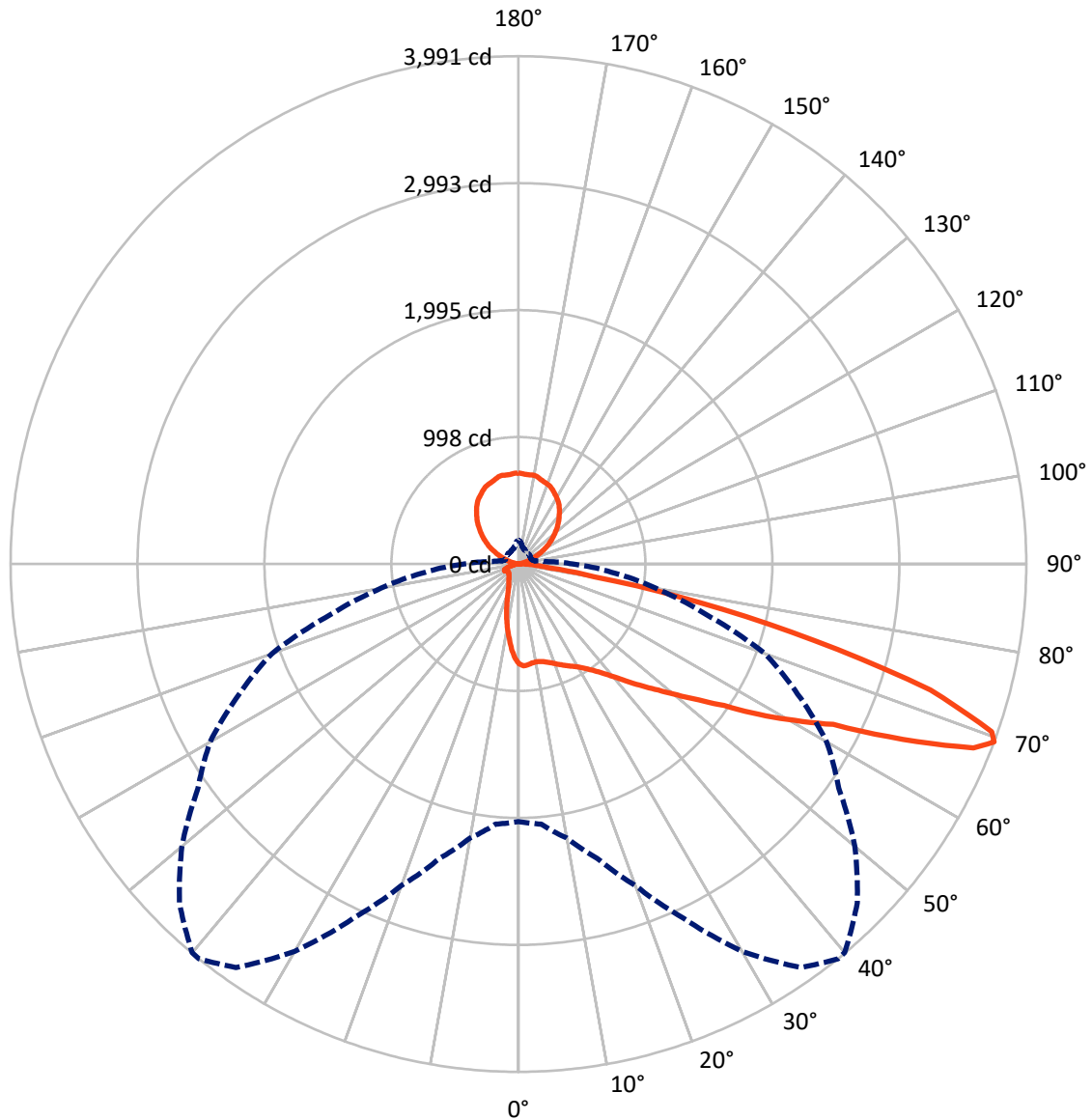
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 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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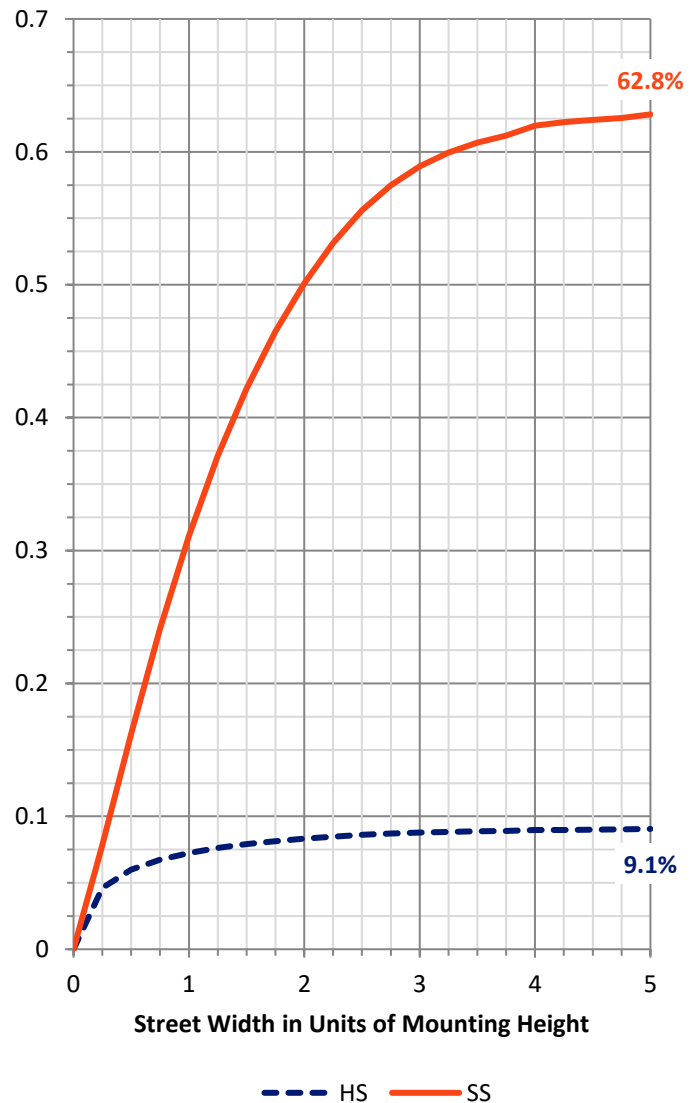
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 593.6 | 887.6 | 1481.2 |
| | % Fixture | 9.2 | 13.7 | 22.9 |
| Street Side | Lumens | 4093.6 | 888.6 | 4982.3 |
| | % Fixture | 63.3 | 13.7 | 77.1 |
| Total | Lumens | 4687.2 | 1776.2 | 6463.5 |
| | % Fixture | 72.5 | 27.5 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.8 | 1.0 |
| 10°-20° | 170.9 | 2.6 |
| 20°-30° | 266.0 | 4.1 |
| 30°-40° | 402.0 | 6.2 |
| 40°-50° | 643.3 | 10.0 |
| 50°-60° | 1011.0 | 15.6 |
| 60°-70° | 1361.3 | 21.1 |
| 70°-80° | 675.3 | 10.4 |
| 80°-90° | 89.8 | 1.4 |
| 90°-100° | 10.8 | 0.2 |
| 100°-110° | 58.7 | 0.9 |
| 110°-120° | 169.9 | 2.6 |
| 120°-130° | 279.4 | 4.3 |
| 130°-140° | 344.6 | 5.3 |
| 140°-150° | 352.5 | 5.5 |
| 150°-160° | 297.0 | 4.6 |
| 160°-170° | 195.5 | 3.0 |
| 170°-180° | 67.8 | 1.0 |
| 0°-90° | 4687.2 | 72.5 |
| 0°-180° | 6463.5 | 100.0 |



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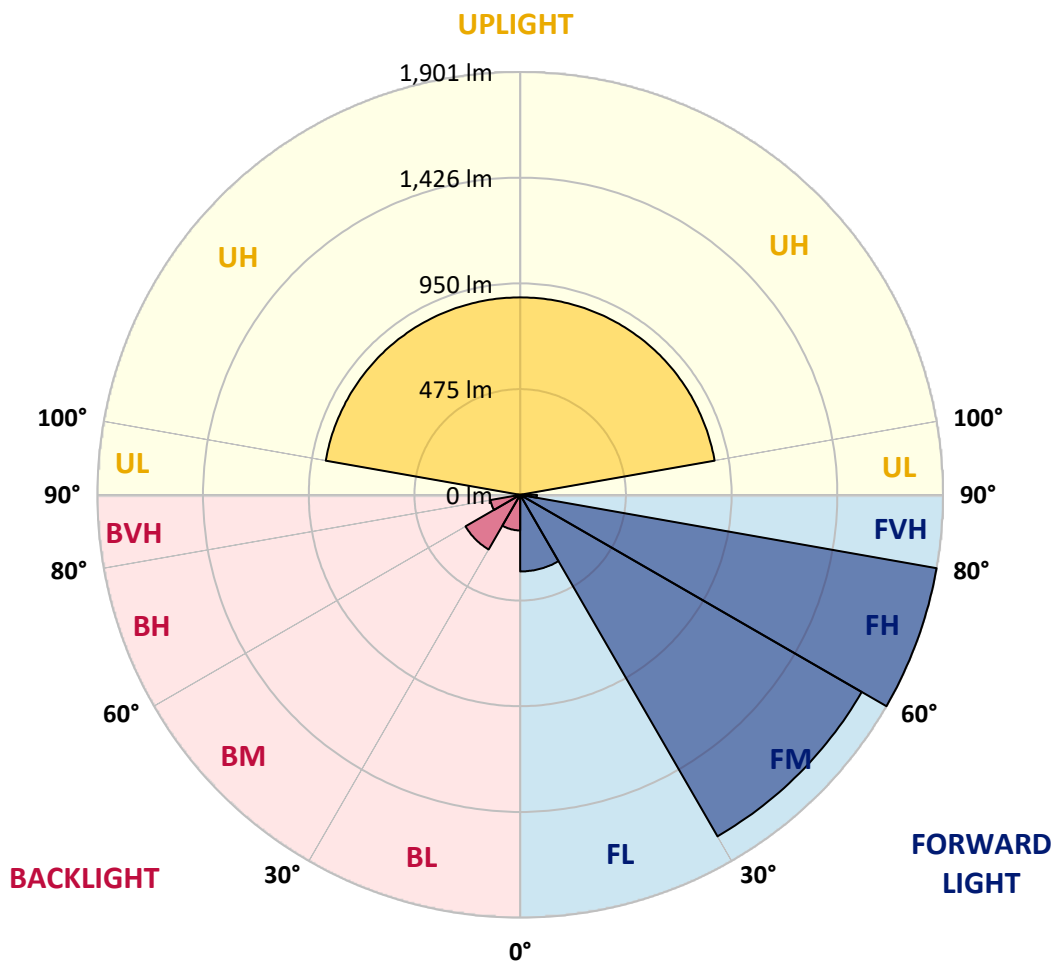
CATALOG NUMBER: ISW-AF-800-LED-E1-SL4-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|---------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 344.6 | 5.3 | | | |
| FM | (30°-60°) | 1772.9 | 27.4 | | | |
| FH | (60°-80°) | 1900.8 | 29.4 | | | G2/5000 |
| FVH | (80°-90°) | 75.2 | 1.2 | | | G1/100 |
| BL | (0°-30°) | 160.0 | 2.5 | B1/500 | | |
| BM | (30°-60°) | 283.3 | 4.4 | B1/1000 | | |
| BH | (60°-80°) | 135.8 | 2.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 14.5 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 10.8 | 0.2 | | U2/50 | |
| UH | (100°-180°) | 887.6 | 13.7 | | U4/1000 | |

BUG Rating: B1-U5-G2

Type IV Short





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

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 39° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 |
| 2.5° | 804.1 | 804.9 | 804.9 | 805.7 | 802.6 | 802.6 | 803.3 | 800.4 | 801.9 | 801.1 | 797.3 |
| 5° | 805.7 | 806.4 | 805.7 | 806.4 | 802.6 | 801.1 | 798.0 | 794.2 | 795.8 | 795.0 | 789.7 |
| 7.5° | 801.9 | 802.6 | 801.1 | 801.9 | 797.3 | 794.2 | 789.7 | 786.6 | 784.4 | 783.6 | 776.7 |
| 10° | 793.5 | 795.8 | 792.7 | 795.0 | 791.2 | 788.2 | 785.8 | 782.9 | 781.3 | 780.5 | 772.9 |
| 12.5° | 781.3 | 782.9 | 783.6 | 786.6 | 786.6 | 787.4 | 787.4 | 785.1 | 785.8 | 785.1 | 779.0 |
| 15° | 769.9 | 775.2 | 780.5 | 783.6 | 789.7 | 793.5 | 796.6 | 795.8 | 798.0 | 797.3 | 793.5 |
| 17.5° | 769.9 | 774.5 | 783.6 | 793.5 | 804.9 | 810.2 | 814.8 | 814.8 | 815.5 | 814.1 | 807.9 |
| 20° | 772.9 | 781.3 | 796.6 | 813.2 | 827.0 | 837.6 | 840.7 | 839.8 | 836.9 | 836.9 | 826.2 |
| 22.5° | 798.0 | 803.3 | 820.1 | 838.4 | 857.3 | 868.1 | 868.8 | 866.5 | 860.4 | 858.9 | 846.0 |
| 25° | 833.8 | 839.8 | 855.1 | 878.7 | 893.1 | 901.5 | 899.3 | 891.6 | 885.6 | 880.2 | 866.5 |
| 27.5° | 889.4 | 893.9 | 909.1 | 925.1 | 933.4 | 936.5 | 927.4 | 916.8 | 909.9 | 907.6 | 889.4 |
| 30° | 946.4 | 952.5 | 964.6 | 974.6 | 981.4 | 972.2 | 957.8 | 945.6 | 939.6 | 938.0 | 921.3 |
| 32.5° | 1016.4 | 1017.1 | 1025.5 | 1027.8 | 1028.6 | 1013.3 | 993.6 | 982.1 | 979.9 | 976.8 | 963.9 |
| 35° | 1080.3 | 1084.1 | 1082.6 | 1081.8 | 1074.9 | 1056.0 | 1039.2 | 1032.4 | 1030.1 | 1029.3 | 1018.7 |
| 37.5° | 1137.3 | 1143.5 | 1139.7 | 1132.8 | 1124.4 | 1109.2 | 1091.7 | 1084.1 | 1091.7 | 1087.1 | 1089.4 |
| 40° | 1192.9 | 1192.9 | 1188.4 | 1184.5 | 1174.7 | 1160.1 | 1154.1 | 1154.8 | 1167.0 | 1170.1 | 1173.1 |
| 42.5° | 1240.8 | 1240.0 | 1235.5 | 1232.5 | 1230.9 | 1227.8 | 1224.9 | 1239.3 | 1262.8 | 1267.4 | 1274.3 |
| 45° | 1293.3 | 1292.5 | 1275.0 | 1281.1 | 1291.8 | 1294.0 | 1304.7 | 1338.2 | 1367.1 | 1369.4 | 1383.8 |
| 47.5° | 1344.3 | 1338.2 | 1321.4 | 1327.6 | 1358.0 | 1373.9 | 1391.4 | 1438.6 | 1479.0 | 1487.3 | 1527.6 |
| 50° | 1397.6 | 1391.4 | 1373.2 | 1384.6 | 1427.2 | 1456.9 | 1497.9 | 1563.4 | 1618.9 | 1630.3 | 1682.9 |
| 52.5° | 1453.1 | 1452.3 | 1437.9 | 1455.4 | 1507.8 | 1568.0 | 1632.6 | 1706.4 | 1774.1 | 1788.5 | 1866.2 |
| 55° | 1520.0 | 1516.2 | 1510.1 | 1531.5 | 1605.9 | 1686.6 | 1787.8 | 1888.3 | 1962.0 | 1987.9 | 2066.3 |
| 57.5° | 1595.3 | 1593.9 | 1594.6 | 1638.7 | 1728.5 | 1850.9 | 1974.9 | 2110.3 | 2232.1 | 2250.4 | 2323.4 |
| 60° | 1660.8 | 1663.8 | 1681.3 | 1750.6 | 1863.1 | 2028.9 | 2203.2 | 2386.5 | 2494.6 | 2513.6 | 2585.1 |
| 62.5° | 1740.7 | 1758.1 | 1796.9 | 1884.4 | 2016.7 | 2217.7 | 2443.6 | 2637.6 | 2776.8 | 2815.6 | 2951.0 |
| 65° | 1932.4 | 1946.1 | 2018.3 | 2124.1 | 2292.9 | 2550.1 | 2809.5 | 3091.8 | 3321.5 | 3356.5 | 3472.9 |
| 67.5° | 2072.3 | 2107.3 | 2220.7 | 2393.4 | 2637.6 | 2966.3 | 3322.2 | 3663.9 | 3857.9 | 3873.8 | 3792.4 |
| 69° | 2023.6 | 2052.6 | 2186.5 | 2394.9 | 2689.3 | 3072.0 | 3514.8 | 3871.6 | 3990.9 | 3988.0 | 3766.6 |
| 70° | 1949.1 | 1975.7 | 2123.3 | 2325.7 | 2646.0 | 3059.9 | 3517.8 | 3873.1 | 3945.3 | 3918.0 | 3664.6 |
| 72.5° | 1632.6 | 1656.2 | 1794.7 | 2006.1 | 2316.6 | 2727.4 | 3158.7 | 3401.4 | 3386.2 | 3363.4 | 2945.0 |
| 75° | 1019.5 | 1017.9 | 1138.9 | 1261.4 | 1502.5 | 1917.9 | 2238.9 | 2433.7 | 2402.5 | 2385.0 | 1890.5 |
| 77.5° | 381.2 | 407.7 | 451.9 | 583.5 | 694.6 | 919.0 | 1178.4 | 1395.2 | 1455.4 | 1378.5 | 1017.9 |
| 80° | 198.6 | 213.0 | 241.9 | 288.4 | 331.7 | 379.6 | 456.4 | 587.3 | 607.8 | 566.8 | 410.8 |
| 82.5° | 156.7 | 174.2 | 203.2 | 242.6 | 273.1 | 254.8 | 240.4 | 248.8 | 247.2 | 235.8 | 209.2 |
| 85° | 118.7 | 139.2 | 186.4 | 226.7 | 270.1 | 228.2 | 181.8 | 159.0 | 141.5 | 142.3 | 151.4 |
| 87.5° | 59.3 | 76.8 | 146.8 | 197.8 | 235.1 | 151.4 | 118.7 | 92.1 | 76.8 | 73.8 | 98.9 |
| 90° | 23.3 | 23.3 | 35.8 | 45.9 | 61.0 | 34.8 | 34.1 | 27.9 | 22.2 | 22.1 | 30.0 |
| 92.5° | 4.1 | 4.1 | 4.6 | 5.1 | 5.6 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 95° | 5.1 | 5.1 | 5.6 | 6.1 | 6.6 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 97.5° | 7.2 | 7.2 | 7.7 | 8.2 | 8.2 | 8.2 | 8.7 | 9.2 | 9.2 | 9.2 | 9.2 |
| 100° | 8.2 | 8.2 | 8.7 | 9.2 | 9.7 | 10.2 | 11.3 | 12.3 | 16.0 | 16.9 | 21.5 |
| 102.5° | 11.3 | 11.3 | 12.3 | 13.3 | 15.9 | 18.4 | 23.0 | 27.6 | 32.9 | 34.3 | 40.9 |
| 105° | 21.5 | 22.5 | 25.1 | 27.6 | 32.2 | 36.8 | 43.0 | 49.1 | 55.2 | 56.8 | 64.4 |
| 107.5° | 41.9 | 43.0 | 46.5 | 50.1 | 54.7 | 59.3 | 67.0 | 74.7 | 80.8 | 82.3 | 90.0 |



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

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 39° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 67.5 | 69.6 | 72.6 | 75.7 | 82.3 | 89.0 | 96.7 | 104.3 | 109.3 | 110.5 | 116.6 |
| 112.5° | 101.3 | 101.3 | 104.9 | 108.4 | 116.1 | 123.8 | 130.4 | 137.1 | 140.8 | 141.7 | 146.3 |
| 115° | 143.2 | 142.2 | 146.3 | 150.4 | 156.5 | 162.6 | 167.3 | 171.9 | 174.3 | 174.9 | 178.0 |
| 117.5° | 188.2 | 188.2 | 190.8 | 193.3 | 197.4 | 201.5 | 204.1 | 206.6 | 207.9 | 208.2 | 209.7 |
| 120° | 230.2 | 228.1 | 229.7 | 231.2 | 234.8 | 238.3 | 240.4 | 242.4 | 244.9 | 245.5 | 248.6 |
| 122.5° | 269.0 | 266.0 | 266.5 | 267.0 | 270.1 | 273.1 | 275.2 | 277.2 | 279.7 | 280.3 | 283.4 |
| 125° | 304.8 | 300.7 | 301.8 | 302.8 | 304.3 | 305.9 | 308.9 | 312.0 | 314.0 | 314.6 | 317.1 |
| 127.5° | 337.6 | 336.6 | 336.6 | 336.6 | 338.6 | 340.6 | 343.7 | 346.8 | 347.2 | 347.3 | 347.8 |
| 130° | 371.3 | 369.3 | 369.8 | 370.3 | 372.4 | 374.4 | 376.4 | 378.5 | 379.3 | 379.5 | 380.5 |
| 132.5° | 405.1 | 403.0 | 402.5 | 402.0 | 406.1 | 410.2 | 411.7 | 413.3 | 413.7 | 413.8 | 414.3 |
| 135° | 438.8 | 435.8 | 435.8 | 435.8 | 438.8 | 441.9 | 443.4 | 445.0 | 445.8 | 446.0 | 447.0 |
| 137.5° | 470.6 | 467.5 | 468.5 | 469.5 | 470.0 | 470.6 | 472.6 | 474.6 | 476.3 | 476.7 | 478.7 |
| 140° | 499.2 | 496.1 | 497.2 | 498.2 | 499.2 | 500.2 | 501.2 | 502.3 | 504.7 | 505.3 | 508.4 |
| 142.5° | 529.9 | 526.8 | 527.8 | 528.9 | 529.4 | 529.9 | 531.4 | 533.0 | 534.6 | 535.0 | 537.0 |
| 145° | 562.6 | 558.5 | 557.5 | 556.5 | 558.0 | 559.6 | 561.1 | 562.6 | 563.0 | 563.1 | 563.6 |
| 147.5° | 588.2 | 585.1 | 584.6 | 584.1 | 585.6 | 587.2 | 587.2 | 587.2 | 587.6 | 587.7 | 588.2 |
| 150° | 608.7 | 605.6 | 606.1 | 606.6 | 606.6 | 606.6 | 606.6 | 606.6 | 606.6 | 606.6 | 606.6 |
| 152.5° | 625.0 | 622.0 | 622.0 | 622.0 | 622.5 | 623.0 | 623.5 | 624.0 | 624.0 | 624.0 | 624.0 |
| 155° | 643.4 | 639.3 | 639.3 | 639.3 | 640.4 | 641.4 | 642.9 | 644.5 | 643.6 | 643.4 | 642.4 |
| 157.5° | 660.8 | 657.8 | 657.8 | 657.8 | 658.3 | 658.8 | 659.8 | 660.8 | 660.4 | 660.3 | 659.8 |
| 160° | 678.2 | 675.1 | 674.6 | 674.1 | 672.6 | 671.1 | 670.5 | 670.0 | 670.0 | 670.0 | 670.0 |
| 162.5° | 688.4 | 684.4 | 684.4 | 684.4 | 682.3 | 680.3 | 678.2 | 676.2 | 677.0 | 677.2 | 678.2 |
| 165° | 696.6 | 693.6 | 692.5 | 691.5 | 691.5 | 691.5 | 690.0 | 688.4 | 688.4 | 688.4 | 688.4 |
| 167.5° | 705.8 | 702.8 | 701.2 | 699.7 | 700.7 | 701.7 | 702.8 | 703.8 | 702.6 | 702.3 | 700.7 |
| 170° | 714.0 | 711.0 | 709.4 | 707.9 | 707.9 | 707.9 | 708.4 | 708.9 | 708.1 | 707.9 | 706.9 |
| 172.5° | 715.0 | 713.0 | 712.0 | 711.0 | 709.9 | 708.9 | 707.4 | 705.8 | 705.8 | 705.8 | 705.8 |
| 175° | 716.1 | 714.0 | 713.5 | 713.0 | 712.0 | 711.0 | 708.9 | 706.9 | 706.4 | 706.3 | 705.8 |
| 177.5° | 723.2 | 721.2 | 718.6 | 716.1 | 715.6 | 715.0 | 714.0 | 713.0 | 712.2 | 712.0 | 711.0 |
| 180° | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |



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

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 |
| 2.5° | 794.2 | 794.2 | 792.7 | 792.0 | 789.7 | 786.6 | 784.4 | 780.5 | 778.3 | 774.5 | 769.9 |
| 5° | 784.4 | 781.3 | 779.8 | 776.7 | 772.2 | 768.3 | 763.8 | 758.5 | 752.4 | 744.8 | 736.4 |
| 7.5° | 771.4 | 766.8 | 761.5 | 760.1 | 754.6 | 750.1 | 744.8 | 737.1 | 728.9 | 715.1 | 704.5 |
| 10° | 766.1 | 761.5 | 757.0 | 753.9 | 747.1 | 741.7 | 735.7 | 725.8 | 715.1 | 696.8 | 677.1 |
| 12.5° | 771.4 | 766.8 | 762.3 | 757.0 | 750.8 | 744.8 | 736.4 | 724.2 | 709.8 | 686.2 | 661.8 |
| 15° | 784.4 | 779.8 | 772.2 | 766.8 | 758.5 | 753.2 | 741.7 | 728.0 | 706.8 | 677.8 | 645.9 |
| 17.5° | 798.8 | 792.0 | 785.1 | 776.7 | 769.2 | 762.3 | 750.1 | 732.6 | 706.0 | 671.8 | 630.6 |
| 20° | 812.5 | 804.9 | 794.2 | 788.2 | 780.5 | 770.7 | 757.7 | 736.4 | 704.5 | 659.6 | 614.7 |
| 22.5° | 828.5 | 818.6 | 807.2 | 800.4 | 794.2 | 785.8 | 770.7 | 743.3 | 704.5 | 652.7 | 596.5 |
| 25° | 849.0 | 836.1 | 824.7 | 817.8 | 814.1 | 807.9 | 789.7 | 759.2 | 709.8 | 649.0 | 581.2 |
| 27.5° | 873.4 | 856.6 | 846.7 | 842.2 | 841.4 | 836.9 | 818.6 | 780.5 | 722.0 | 649.0 | 566.8 |
| 30° | 902.2 | 887.8 | 874.9 | 874.9 | 884.0 | 881.0 | 860.4 | 813.2 | 741.0 | 651.2 | 556.1 |
| 32.5° | 942.5 | 928.1 | 920.6 | 928.1 | 938.0 | 941.1 | 917.5 | 859.7 | 772.2 | 661.8 | 545.4 |
| 35° | 1002.0 | 992.8 | 987.5 | 998.9 | 1018.7 | 1026.3 | 997.4 | 928.9 | 817.8 | 682.4 | 539.4 |
| 37.5° | 1080.3 | 1073.5 | 1066.6 | 1086.4 | 1123.6 | 1138.9 | 1097.0 | 1008.7 | 883.2 | 716.7 | 536.3 |
| 40° | 1170.1 | 1170.9 | 1178.4 | 1218.0 | 1253.7 | 1285.7 | 1238.5 | 1129.7 | 973.0 | 765.4 | 539.4 |
| 42.5° | 1276.5 | 1284.9 | 1310.8 | 1365.5 | 1434.8 | 1460.0 | 1414.2 | 1275.8 | 1084.8 | 823.9 | 547.0 |
| 45° | 1408.9 | 1431.0 | 1475.1 | 1556.5 | 1640.2 | 1679.0 | 1614.3 | 1460.0 | 1225.6 | 917.5 | 568.2 |
| 47.5° | 1549.7 | 1598.4 | 1672.9 | 1771.9 | 1869.2 | 1894.3 | 1814.4 | 1626.5 | 1363.3 | 1000.4 | 601.0 |
| 50° | 1730.0 | 1789.3 | 1863.9 | 1982.6 | 2086.0 | 2101.2 | 1995.5 | 1781.0 | 1483.5 | 1072.7 | 632.2 |
| 52.5° | 1898.1 | 1978.8 | 2073.8 | 2211.5 | 2316.6 | 2297.5 | 2160.6 | 1918.6 | 1578.6 | 1122.2 | 649.7 |
| 55° | 2127.8 | 2211.5 | 2318.8 | 2439.0 | 2543.3 | 2497.6 | 2310.4 | 2035.8 | 1654.6 | 1158.7 | 655.0 |
| 57.5° | 2390.3 | 2454.3 | 2559.2 | 2682.5 | 2750.9 | 2672.6 | 2458.0 | 2149.9 | 1726.9 | 1159.4 | 613.2 |
| 60° | 2648.2 | 2722.8 | 2838.4 | 2959.4 | 2997.5 | 2862.0 | 2560.8 | 2167.4 | 1655.4 | 1034.6 | 490.7 |
| 62.5° | 3030.2 | 3105.5 | 3164.0 | 3183.8 | 3115.3 | 2843.0 | 2441.3 | 1982.6 | 1427.2 | 816.3 | 347.7 |
| 65° | 3457.0 | 3371.7 | 3258.4 | 3151.8 | 2965.4 | 2551.6 | 2105.0 | 1628.8 | 1107.7 | 545.4 | 239.7 |
| 67.5° | 3568.8 | 3309.3 | 3062.8 | 2825.5 | 2477.8 | 2032.0 | 1587.7 | 1145.7 | 710.5 | 310.4 | 162.9 |
| 69° | 3452.4 | 3073.5 | 2798.9 | 2422.2 | 2063.2 | 1520.8 | 1093.9 | 734.2 | 424.5 | 216.0 | 136.2 |
| 70° | 3239.4 | 2845.2 | 2473.3 | 2070.0 | 1598.4 | 1161.7 | 727.3 | 480.8 | 276.9 | 157.4 | 122.4 |
| 72.5° | 2444.3 | 1954.4 | 1506.3 | 978.4 | 596.5 | 330.9 | 232.8 | 166.6 | 131.7 | 115.6 | 105.0 |
| 75° | 1413.5 | 941.1 | 616.2 | 328.7 | 194.8 | 144.5 | 126.3 | 112.6 | 104.2 | 100.5 | 91.2 |
| 77.5° | 596.5 | 372.8 | 252.6 | 184.8 | 130.8 | 111.8 | 97.4 | 89.8 | 89.0 | 86.7 | 78.4 |
| 80° | 271.6 | 232.8 | 198.6 | 139.2 | 99.6 | 85.2 | 74.6 | 73.0 | 74.6 | 72.3 | 63.9 |
| 82.5° | 201.6 | 198.6 | 165.8 | 107.3 | 76.1 | 57.1 | 46.4 | 48.7 | 54.7 | 59.3 | 51.8 |
| 85° | 168.2 | 168.2 | 139.2 | 79.9 | 50.2 | 36.5 | 35.8 | 40.3 | 45.6 | 49.4 | 41.8 |
| 87.5° | 154.5 | 148.3 | 79.9 | 41.1 | 28.9 | 23.6 | 22.1 | 19.7 | 19.7 | 34.3 | 28.9 |
| 90° | 22.4 | 14.0 | 12.0 | 12.3 | 13.0 | 12.3 | 12.8 | 10.9 | 10.9 | 10.9 | 12.0 |
| 92.5° | 6.6 | 7.2 | 7.2 | 7.2 | 6.6 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 95° | 7.2 | 7.2 | 7.7 | 8.2 | 7.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 97.5° | 10.7 | 12.3 | 11.3 | 10.2 | 9.7 | 9.2 | 8.7 | 8.2 | 8.2 | 8.2 | 8.7 |
| 100° | 25.6 | 29.7 | 28.1 | 26.6 | 25.1 | 23.5 | 21.5 | 19.4 | 19.4 | 19.4 | 21.5 |
| 102.5° | 46.0 | 51.1 | 49.6 | 48.1 | 45.5 | 43.0 | 41.4 | 39.9 | 38.9 | 39.9 | 41.4 |
| 105° | 69.0 | 73.7 | 72.6 | 71.6 | 69.0 | 66.5 | 64.4 | 62.4 | 62.4 | 62.4 | 64.4 |
| 107.5° | 93.6 | 97.2 | 96.7 | 96.2 | 94.1 | 92.1 | 90.5 | 89.0 | 88.0 | 89.0 | 90.5 |



REPORT NUMBER: P227010

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

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 119.7 | 122.8 | 123.3 | 123.8 | 122.8 | 121.7 | 120.2 | 118.7 | 119.7 | 118.7 | 120.2 |
| 112.5° | 148.8 | 151.4 | 152.4 | 153.4 | 152.9 | 152.4 | 151.4 | 150.4 | 150.4 | 150.4 | 151.4 |
| 115° | 180.6 | 183.1 | 184.6 | 186.2 | 184.6 | 183.1 | 182.1 | 181.1 | 182.1 | 181.1 | 182.1 |
| 117.5° | 212.8 | 215.8 | 217.9 | 219.9 | 217.4 | 214.8 | 213.8 | 212.8 | 213.8 | 212.8 | 213.8 |
| 120° | 250.1 | 251.6 | 253.7 | 255.7 | 253.2 | 250.6 | 249.6 | 248.6 | 248.6 | 248.6 | 249.6 |
| 122.5° | 284.4 | 285.4 | 287.4 | 289.5 | 286.9 | 284.4 | 283.4 | 282.3 | 283.4 | 282.3 | 283.4 |
| 125° | 318.6 | 320.2 | 321.2 | 322.2 | 319.7 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 |
| 127.5° | 350.4 | 352.9 | 353.4 | 353.9 | 353.9 | 353.9 | 353.4 | 352.9 | 355.0 | 352.9 | 353.4 |
| 130° | 383.1 | 385.7 | 387.7 | 389.7 | 389.7 | 389.7 | 388.7 | 387.7 | 388.7 | 387.7 | 388.7 |
| 132.5° | 417.4 | 420.4 | 423.0 | 425.5 | 424.5 | 423.5 | 423.5 | 423.5 | 424.5 | 423.5 | 423.5 |
| 135° | 450.1 | 453.2 | 455.7 | 458.3 | 457.8 | 457.3 | 458.8 | 460.3 | 461.4 | 460.3 | 458.8 |
| 137.5° | 481.3 | 483.9 | 484.9 | 485.9 | 486.4 | 486.9 | 489.5 | 492.0 | 493.1 | 492.0 | 489.5 |
| 140° | 509.9 | 511.5 | 512.5 | 513.5 | 514.5 | 515.6 | 518.1 | 520.7 | 522.7 | 520.7 | 518.1 |
| 142.5° | 538.1 | 539.1 | 542.2 | 545.2 | 545.2 | 545.2 | 545.7 | 546.3 | 548.3 | 546.3 | 545.7 |
| 145° | 566.2 | 568.8 | 571.8 | 574.9 | 574.4 | 573.9 | 572.3 | 570.8 | 572.9 | 570.8 | 572.3 |
| 147.5° | 590.8 | 593.3 | 595.9 | 598.4 | 598.9 | 599.4 | 597.9 | 596.4 | 598.4 | 596.4 | 597.9 |
| 150° | 608.7 | 610.7 | 612.2 | 613.8 | 615.3 | 616.8 | 618.4 | 619.9 | 624.0 | 619.9 | 618.4 |
| 152.5° | 624.5 | 625.0 | 626.6 | 628.1 | 630.1 | 632.2 | 634.7 | 637.3 | 642.4 | 637.3 | 634.7 |
| 155° | 641.4 | 640.4 | 642.9 | 645.5 | 648.0 | 650.6 | 651.6 | 652.6 | 655.7 | 652.6 | 651.6 |
| 157.5° | 659.3 | 658.8 | 660.8 | 662.9 | 663.9 | 664.9 | 664.9 | 664.9 | 670.0 | 664.9 | 664.9 |
| 160° | 671.6 | 673.1 | 676.2 | 679.2 | 677.7 | 676.2 | 675.7 | 675.1 | 681.3 | 675.1 | 675.7 |
| 162.5° | 680.3 | 682.3 | 684.4 | 686.4 | 685.9 | 685.4 | 684.4 | 683.3 | 689.5 | 683.3 | 684.4 |
| 165° | 687.9 | 687.4 | 690.0 | 692.5 | 694.1 | 695.6 | 694.6 | 693.6 | 697.7 | 693.6 | 694.6 |
| 167.5° | 697.1 | 693.6 | 696.6 | 699.7 | 701.7 | 703.8 | 703.8 | 703.8 | 709.9 | 703.8 | 703.8 |
| 170° | 704.3 | 701.7 | 703.3 | 704.8 | 707.4 | 709.9 | 711.0 | 712.0 | 717.1 | 712.0 | 711.0 |
| 172.5° | 705.3 | 704.8 | 706.3 | 707.9 | 708.9 | 709.9 | 711.0 | 712.0 | 717.1 | 712.0 | 711.0 |
| 175° | 705.8 | 705.8 | 708.4 | 711.0 | 711.5 | 712.0 | 711.0 | 709.9 | 715.0 | 709.9 | 711.0 |
| 177.5° | 710.4 | 709.9 | 712.5 | 715.0 | 716.1 | 717.1 | 715.6 | 714.0 | 718.1 | 714.0 | 715.6 |
| 180° | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |



REPORT NUMBER: P227010

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

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 |
| 2.5° | 766.1 | 763.0 | 755.4 | 753.9 | 751.7 | 748.6 | 747.9 | 744.0 | 736.4 | 734.9 | 735.7 |
| 5° | 731.1 | 718.9 | 710.5 | 703.7 | 698.4 | 684.7 | 679.3 | 673.3 | 662.7 | 659.6 | 655.0 |
| 7.5° | 690.0 | 675.6 | 658.8 | 646.6 | 632.2 | 617.8 | 606.3 | 591.9 | 580.4 | 573.6 | 561.5 |
| 10° | 658.1 | 638.3 | 616.2 | 591.9 | 572.9 | 550.8 | 536.3 | 519.6 | 501.3 | 484.6 | 472.4 |
| 12.5° | 633.7 | 606.3 | 574.4 | 545.4 | 518.1 | 494.5 | 468.6 | 445.1 | 422.3 | 399.4 | 379.6 |
| 15° | 614.0 | 579.7 | 539.4 | 502.9 | 469.4 | 434.4 | 405.5 | 372.8 | 343.9 | 324.1 | 299.0 |
| 17.5° | 592.6 | 548.5 | 500.6 | 458.0 | 414.6 | 378.1 | 341.6 | 307.4 | 280.0 | 254.1 | 233.5 |
| 20° | 566.8 | 513.5 | 461.8 | 412.4 | 362.8 | 321.0 | 283.8 | 251.0 | 224.4 | 203.9 | 188.6 |
| 22.5° | 537.9 | 475.5 | 415.4 | 361.4 | 311.9 | 270.9 | 235.8 | 211.4 | 191.7 | 180.3 | 175.7 |
| 25° | 509.7 | 438.2 | 370.5 | 311.2 | 261.7 | 226.7 | 203.2 | 182.6 | 172.7 | 168.2 | 168.2 |
| 27.5° | 483.9 | 400.2 | 324.9 | 267.0 | 219.1 | 191.7 | 173.5 | 165.1 | 160.5 | 160.5 | 162.9 |
| 30° | 459.5 | 362.1 | 281.5 | 222.9 | 184.8 | 164.3 | 154.5 | 151.4 | 152.1 | 155.2 | 158.3 |
| 32.5° | 431.4 | 325.6 | 244.2 | 191.7 | 160.5 | 146.8 | 139.2 | 139.9 | 143.8 | 149.1 | 154.5 |
| 35° | 401.7 | 286.8 | 211.4 | 168.2 | 143.8 | 133.1 | 128.6 | 129.3 | 134.6 | 141.5 | 146.8 |
| 37.5° | 375.0 | 255.6 | 186.4 | 149.9 | 131.7 | 124.8 | 120.9 | 121.7 | 125.5 | 133.9 | 140.8 |
| 40° | 348.4 | 229.0 | 165.8 | 139.2 | 124.8 | 117.9 | 115.6 | 114.9 | 117.9 | 125.5 | 133.9 |
| 42.5° | 325.6 | 206.1 | 153.6 | 131.7 | 120.2 | 114.2 | 111.1 | 111.1 | 112.6 | 118.7 | 127.1 |
| 45° | 311.9 | 192.5 | 145.3 | 126.3 | 116.4 | 111.1 | 108.0 | 106.5 | 108.7 | 112.6 | 120.2 |
| 47.5° | 311.9 | 185.7 | 139.9 | 122.4 | 113.3 | 108.7 | 105.0 | 104.2 | 105.0 | 108.7 | 116.4 |
| 50° | 322.5 | 187.2 | 139.2 | 120.9 | 111.8 | 105.8 | 102.0 | 102.0 | 103.4 | 108.7 | 114.9 |
| 52.5° | 331.7 | 190.2 | 141.5 | 122.4 | 111.8 | 104.2 | 99.6 | 98.9 | 101.2 | 106.5 | 111.8 |
| 55° | 330.2 | 190.2 | 143.8 | 124.8 | 114.2 | 105.0 | 98.9 | 98.1 | 99.6 | 105.0 | 110.3 |
| 57.5° | 295.2 | 178.8 | 141.5 | 126.3 | 117.1 | 108.7 | 102.7 | 100.5 | 102.0 | 106.5 | 111.1 |
| 60° | 238.9 | 159.0 | 135.4 | 126.3 | 121.7 | 115.6 | 109.6 | 108.0 | 108.7 | 113.3 | 118.7 |
| 62.5° | 187.2 | 141.5 | 127.8 | 125.5 | 124.0 | 120.9 | 118.7 | 117.1 | 117.1 | 120.9 | 125.5 |
| 65° | 152.1 | 127.8 | 121.7 | 122.4 | 124.0 | 123.3 | 122.4 | 121.7 | 121.7 | 124.0 | 128.6 |
| 67.5° | 127.1 | 114.9 | 113.3 | 115.6 | 117.1 | 117.9 | 118.7 | 117.9 | 118.7 | 120.9 | 126.3 |
| 69° | 115.6 | 108.0 | 106.5 | 108.0 | 111.1 | 111.8 | 113.3 | 112.6 | 113.3 | 115.6 | 120.9 |
| 70° | 108.7 | 102.7 | 101.2 | 103.4 | 105.8 | 106.5 | 108.0 | 107.3 | 108.0 | 110.3 | 115.6 |
| 72.5° | 94.3 | 87.5 | 85.2 | 86.7 | 89.0 | 89.0 | 91.2 | 92.1 | 90.5 | 91.2 | 95.1 |
| 75° | 80.6 | 73.0 | 69.3 | 70.0 | 70.0 | 70.0 | 71.5 | 71.5 | 70.0 | 69.3 | 70.0 |
| 77.5° | 67.7 | 59.3 | 54.7 | 54.7 | 54.7 | 54.0 | 51.8 | 52.5 | 53.3 | 52.5 | 53.3 |
| 80° | 53.3 | 46.4 | 41.8 | 41.8 | 41.8 | 40.3 | 39.6 | 39.6 | 41.1 | 42.6 | 41.8 |
| 82.5° | 41.1 | 34.3 | 31.9 | 31.2 | 31.2 | 29.7 | 29.7 | 31.2 | 30.4 | 31.2 | 32.7 |
| 85° | 29.7 | 24.3 | 22.1 | 22.8 | 22.1 | 20.6 | 21.3 | 23.6 | 23.6 | 22.8 | 24.3 |
| 87.5° | 18.2 | 15.2 | 14.4 | 15.2 | 13.7 | 11.5 | 10.6 | 11.5 | 12.9 | 12.2 | 13.7 |
| 90° | 11.5 | 10.7 | 10.7 | 9.7 | 9.4 | 8.7 | 8.7 | 9.2 | 10.4 | 10.4 | 9.7 |
| 92.5° | 6.1 | 6.6 | 7.2 | 7.2 | 7.2 | 6.6 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 95° | 7.2 | 7.7 | 8.2 | 7.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 97.5° | 9.2 | 9.7 | 10.2 | 11.3 | 12.3 | 10.7 | 9.2 | 9.2 | 9.2 | 8.7 | 8.2 |
| 100° | 23.5 | 25.1 | 26.6 | 28.1 | 29.7 | 25.6 | 21.5 | 16.9 | 12.3 | 11.3 | 10.2 |
| 102.5° | 43.0 | 45.5 | 48.1 | 49.6 | 51.1 | 46.0 | 40.9 | 34.3 | 27.6 | 23.0 | 18.4 |
| 105° | 66.5 | 69.0 | 71.6 | 72.6 | 73.7 | 69.0 | 64.4 | 56.8 | 49.1 | 43.0 | 36.8 |
| 107.5° | 92.1 | 94.1 | 96.2 | 96.7 | 97.2 | 93.6 | 90.0 | 82.3 | 74.7 | 67.0 | 59.3 |



REPORT NUMBER: P227010
 CATALOG NUMBER: ISW-AF-800-LED-E1-SL4-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 110° | 121.7 | 122.8 | 123.8 | 123.3 | 122.8 | 119.7 | 116.6 | 110.5 | 104.3 | 96.7 | 89.0 | 0° |
| 112.5° | 152.4 | 152.9 | 153.4 | 152.4 | 151.4 | 148.8 | 146.3 | 141.7 | 137.1 | 130.4 | 123.8 | 2.5° |
| 115° | 183.1 | 184.6 | 186.2 | 184.6 | 183.1 | 180.6 | 178.0 | 174.9 | 171.9 | 167.3 | 162.6 | 5° |
| 117.5° | 214.8 | 217.4 | 219.9 | 217.9 | 215.8 | 212.8 | 209.7 | 208.2 | 206.6 | 204.1 | 201.5 | 7.5° |
| 120° | 250.6 | 253.2 | 255.7 | 253.7 | 251.6 | 250.1 | 248.6 | 245.5 | 242.4 | 240.4 | 238.3 | 10° |
| 122.5° | 284.4 | 286.9 | 289.5 | 287.4 | 285.4 | 284.4 | 283.4 | 280.3 | 277.2 | 275.2 | 273.1 | 12.5° |
| 125° | 317.1 | 319.7 | 322.2 | 321.2 | 320.2 | 318.6 | 317.1 | 314.6 | 312.0 | 308.9 | 305.9 | 15° |
| 127.5° | 353.9 | 353.9 | 353.9 | 353.4 | 352.9 | 350.4 | 347.8 | 347.3 | 346.8 | 343.7 | 340.6 | 17.5° |
| 130° | 389.7 | 389.7 | 389.7 | 387.7 | 385.7 | 383.1 | 380.5 | 379.5 | 378.5 | 376.4 | 374.4 | 20° |
| 132.5° | 423.5 | 424.5 | 425.5 | 423.0 | 420.4 | 417.4 | 414.3 | 413.8 | 413.3 | 411.7 | 410.2 | 22.5° |
| 135° | 457.3 | 457.8 | 458.3 | 455.7 | 453.2 | 450.1 | 447.0 | 446.0 | 445.0 | 443.4 | 441.9 | 25° |
| 137.5° | 486.9 | 486.4 | 485.9 | 484.9 | 483.9 | 481.3 | 478.7 | 476.7 | 474.6 | 472.6 | 470.6 | 27.5° |
| 140° | 515.6 | 514.5 | 513.5 | 512.5 | 511.5 | 509.9 | 508.4 | 505.3 | 502.3 | 501.2 | 500.2 | 30° |
| 142.5° | 545.2 | 545.2 | 545.2 | 542.2 | 539.1 | 538.1 | 537.0 | 535.0 | 533.0 | 531.4 | 529.9 | 32.5° |
| 145° | 573.9 | 574.4 | 574.9 | 571.8 | 568.8 | 566.2 | 563.6 | 563.1 | 562.6 | 561.1 | 559.6 | 35° |
| 147.5° | 599.4 | 598.9 | 598.4 | 595.9 | 593.3 | 590.8 | 588.2 | 587.7 | 587.2 | 587.2 | 587.2 | 37.5° |
| 150° | 616.8 | 615.3 | 613.8 | 612.2 | 610.7 | 608.7 | 606.6 | 606.6 | 606.6 | 606.6 | 606.6 | 40° |
| 152.5° | 632.2 | 630.1 | 628.1 | 626.6 | 625.0 | 624.5 | 624.0 | 624.0 | 624.0 | 623.5 | 623.0 | 42.5° |
| 155° | 650.6 | 648.0 | 645.5 | 642.9 | 640.4 | 641.4 | 642.4 | 643.4 | 644.5 | 642.9 | 641.4 | 45° |
| 157.5° | 664.9 | 663.9 | 662.9 | 660.8 | 658.8 | 659.3 | 659.8 | 660.3 | 660.8 | 659.8 | 658.8 | 47.5° |
| 160° | 676.2 | 677.7 | 679.2 | 676.2 | 673.1 | 671.6 | 670.0 | 670.0 | 670.0 | 670.5 | 671.1 | 50° |
| 162.5° | 685.4 | 685.9 | 686.4 | 684.4 | 682.3 | 680.3 | 678.2 | 677.2 | 676.2 | 678.2 | 680.3 | 52.5° |
| 165° | 695.6 | 694.1 | 692.5 | 690.0 | 687.4 | 687.9 | 688.4 | 688.4 | 688.4 | 690.0 | 691.5 | 55° |
| 167.5° | 703.8 | 701.7 | 699.7 | 696.6 | 693.6 | 697.1 | 700.7 | 702.3 | 703.8 | 702.8 | 701.7 | 57.5° |
| 170° | 709.9 | 707.4 | 704.8 | 703.3 | 701.7 | 704.3 | 706.9 | 707.9 | 708.9 | 708.4 | 707.9 | 60° |
| 172.5° | 709.9 | 708.9 | 707.9 | 706.3 | 704.8 | 705.3 | 705.8 | 705.8 | 705.8 | 707.4 | 708.9 | 62.5° |
| 175° | 712.0 | 711.5 | 711.0 | 708.4 | 705.8 | 705.8 | 705.8 | 706.3 | 706.9 | 708.9 | 711.0 | 65° |
| 177.5° | 717.1 | 716.1 | 715.0 | 712.5 | 709.9 | 710.4 | 711.0 | 712.0 | 713.0 | 714.0 | 715.0 | 67.5° |
| 180° | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 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: P227010
 NUMBER: ISW-AF-800-LED-E1-SL4-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

| 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 785.1 | 785.1 | 785.1 | 785.1 | 785.1 |
| 730.4 | 732.6 | 722.7 | 727.3 | 724.2 |
| 650.5 | 646.6 | 645.9 | 643.6 | 639.0 |
| 556.9 | 553.8 | 544.7 | 547.8 | 540.9 |
| 460.2 | 459.5 | 442.7 | 443.6 | 435.2 |
| 371.2 | 357.5 | 350.7 | 340.8 | 346.2 |
| 287.6 | 276.2 | 261.7 | 257.9 | 263.2 |
| 216.9 | 205.4 | 198.6 | 192.5 | 190.2 |
| 179.5 | 172.7 | 168.9 | 166.6 | 165.1 |
| 173.5 | 172.0 | 171.1 | 169.6 | 168.9 |
| 169.6 | 171.1 | 171.1 | 171.1 | 169.6 |
| 165.8 | 168.9 | 169.6 | 168.9 | 167.4 |
| 162.0 | 164.3 | 164.3 | 163.6 | 161.3 |
| 156.7 | 159.0 | 159.0 | 158.3 | 156.7 |
| 150.7 | 152.1 | 152.9 | 152.9 | 153.6 |
| 146.1 | 147.6 | 149.1 | 150.7 | 152.9 |
| 140.8 | 143.0 | 143.8 | 146.8 | 149.9 |
| 133.9 | 137.0 | 138.5 | 140.8 | 143.8 |
| 127.1 | 130.8 | 131.7 | 134.6 | 137.7 |
| 124.0 | 127.1 | 127.1 | 129.3 | 131.7 |
| 120.2 | 121.7 | 120.9 | 122.4 | 123.3 |
| 116.4 | 117.9 | 117.1 | 118.7 | 119.5 |
| 113.3 | 114.9 | 116.4 | 117.9 | 118.7 |
| 114.9 | 117.1 | 117.9 | 120.2 | 120.9 |
| 121.7 | 124.8 | 127.8 | 130.8 | 133.1 |
| 128.6 | 132.4 | 139.2 | 152.9 | 158.3 |
| 132.4 | 137.7 | 153.6 | 177.3 | 184.1 |
| 130.1 | 137.0 | 156.0 | 181.1 | 189.5 |
| 125.5 | 130.8 | 151.4 | 177.3 | 184.8 |
| 119.5 | 124.8 | 145.3 | 173.5 | 180.3 |
| 96.6 | 99.6 | 122.4 | 149.1 | 153.6 |
| 70.8 | 73.0 | 90.5 | 101.2 | 100.5 |
| 54.7 | 57.8 | 63.9 | 64.7 | 63.9 |
| 43.4 | 44.9 | 48.0 | 48.0 | 48.7 |
| 33.5 | 34.3 | 35.8 | 34.3 | 33.5 |
| 25.1 | 24.3 | 23.6 | 22.8 | 22.1 |
| 14.4 | 14.4 | 12.2 | 10.6 | 9.9 |
| 9.2 | 9.4 | 8.4 | 6.6 | 5.1 |
| 5.6 | 5.1 | 4.6 | 4.1 | 4.1 |
| 6.6 | 6.1 | 5.6 | 5.1 | 5.1 |
| 8.2 | 8.2 | 7.7 | 7.2 | 7.2 |
| 9.7 | 9.2 | 8.7 | 8.2 | 8.2 |
| 15.9 | 13.3 | 12.3 | 11.3 | 11.3 |
| 32.2 | 27.6 | 25.1 | 22.5 | 21.5 |
| 54.7 | 50.1 | 46.5 | 43.0 | 41.9 |

CANDELA DISTRIBUTION:

| | 160° |
|--------|-------|
| 110° | 82.3 |
| 112.5° | 116.1 |
| 115° | 156.5 |
| 117.5° | 197.4 |
| 120° | 234.8 |
| 122.5° | 270.1 |
| 125° | 304.3 |
| 127.5° | 338.6 |
| 130° | 372.4 |
| 132.5° | 406.1 |
| 135° | 438.8 |
| 137.5° | 470.0 |
| 140° | 499.2 |
| 142.5° | 529.4 |
| 145° | 558.0 |
| 147.5° | 585.6 |
| 150° | 606.6 |
| 152.5° | 622.5 |
| 155° | 640.4 |
| 157.5° | 658.3 |
| 160° | 672.6 |
| 162.5° | 682.3 |
| 165° | 691.5 |
| 167.5° | 700.7 |
| 170° | 707.9 |
| 172.5° | 709.9 |
| 175° | 712.0 |
| 177.5° | 715.6 |
| 180° | 716.1 |

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

TION (continued):

| 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|
| 75.7 | 72.6 | 69.6 | 67.5 |
| 108.4 | 104.9 | 101.3 | 101.3 |
| 150.4 | 146.3 | 142.2 | 143.2 |
| 193.3 | 190.8 | 188.2 | 188.2 |
| 231.2 | 229.7 | 228.1 | 230.2 |
| 267.0 | 266.5 | 266.0 | 269.0 |
| 302.8 | 301.8 | 300.7 | 304.8 |
| 336.6 | 336.6 | 336.6 | 337.6 |
| 370.3 | 369.8 | 369.3 | 371.3 |
| 402.0 | 402.5 | 403.0 | 405.1 |
| 435.8 | 435.8 | 435.8 | 438.8 |
| 469.5 | 468.5 | 467.5 | 470.6 |
| 498.2 | 497.2 | 496.1 | 499.2 |
| 528.9 | 527.8 | 526.8 | 529.9 |
| 556.5 | 557.5 | 558.5 | 562.6 |
| 584.1 | 584.6 | 585.1 | 588.2 |
| 606.6 | 606.1 | 605.6 | 608.7 |
| 622.0 | 622.0 | 622.0 | 625.0 |
| 639.3 | 639.3 | 639.3 | 643.4 |
| 657.8 | 657.8 | 657.8 | 660.8 |
| 674.1 | 674.6 | 675.1 | 678.2 |
| 684.4 | 684.4 | 684.4 | 688.4 |
| 691.5 | 692.5 | 693.6 | 696.6 |
| 699.7 | 701.2 | 702.8 | 705.8 |
| 707.9 | 709.4 | 711.0 | 714.0 |
| 711.0 | 712.0 | 713.0 | 715.0 |
| 713.0 | 713.5 | 714.0 | 716.1 |
| 716.1 | 718.6 | 721.2 | 723.2 |
| 716.1 | 716.1 | 716.1 | 716.1 |

(END OF REPORT)