

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: P226379

Luminaire Tested: **ISW-AF-350-LED-E1-T3-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35938)-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-T3-7030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, 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: 3953.2 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - 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

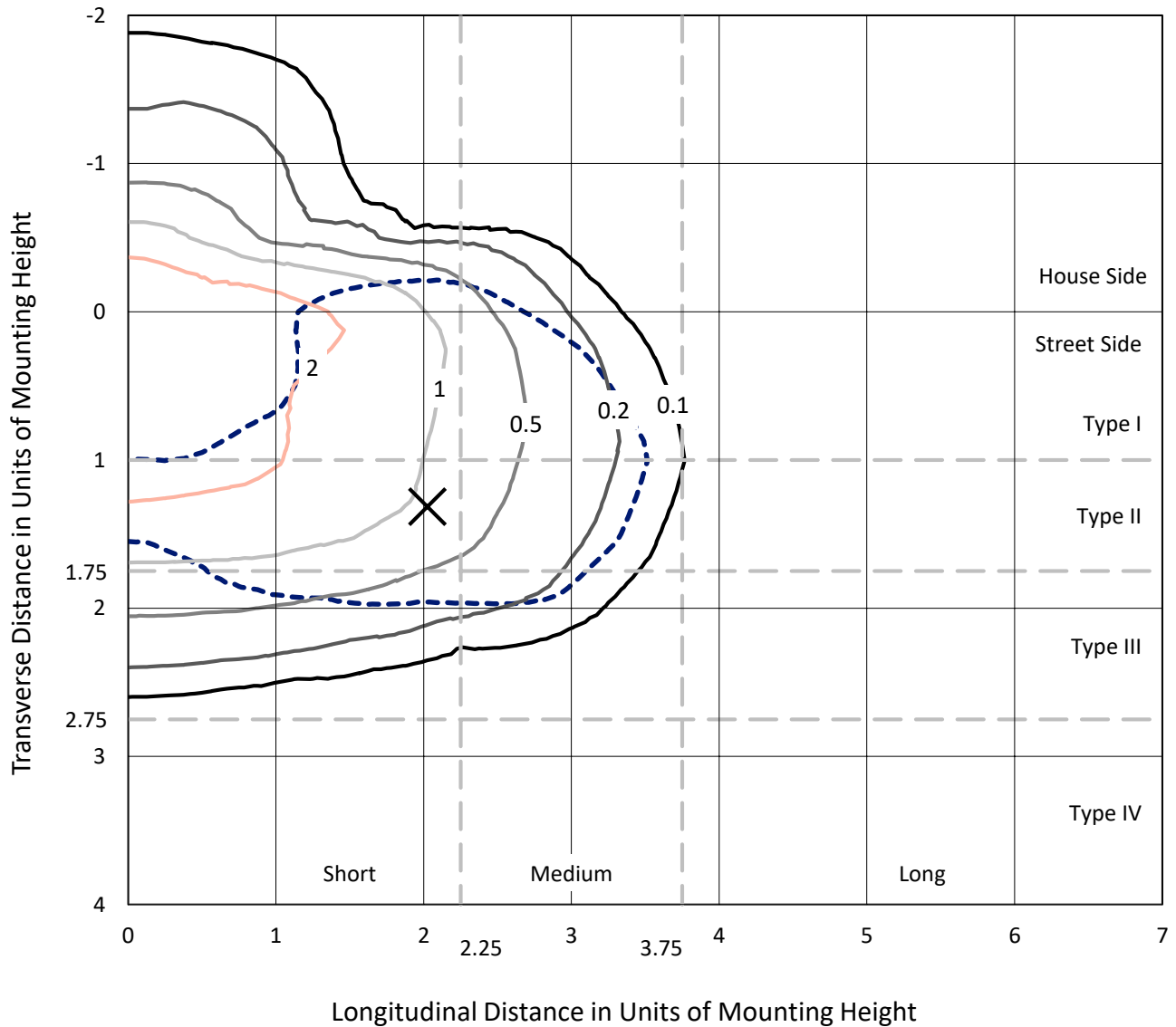


REPORT NUMBER: P226379

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

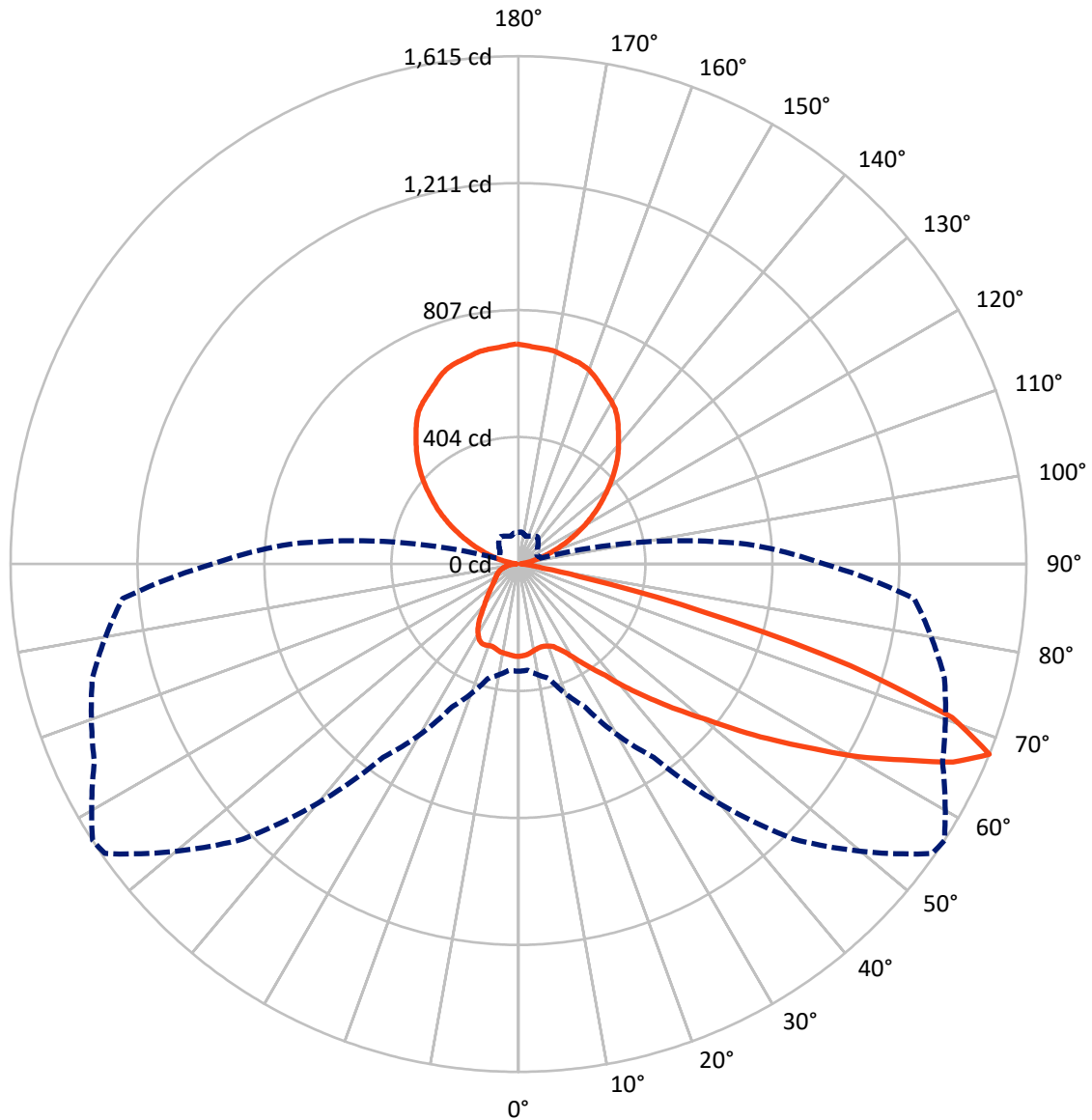


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P226379

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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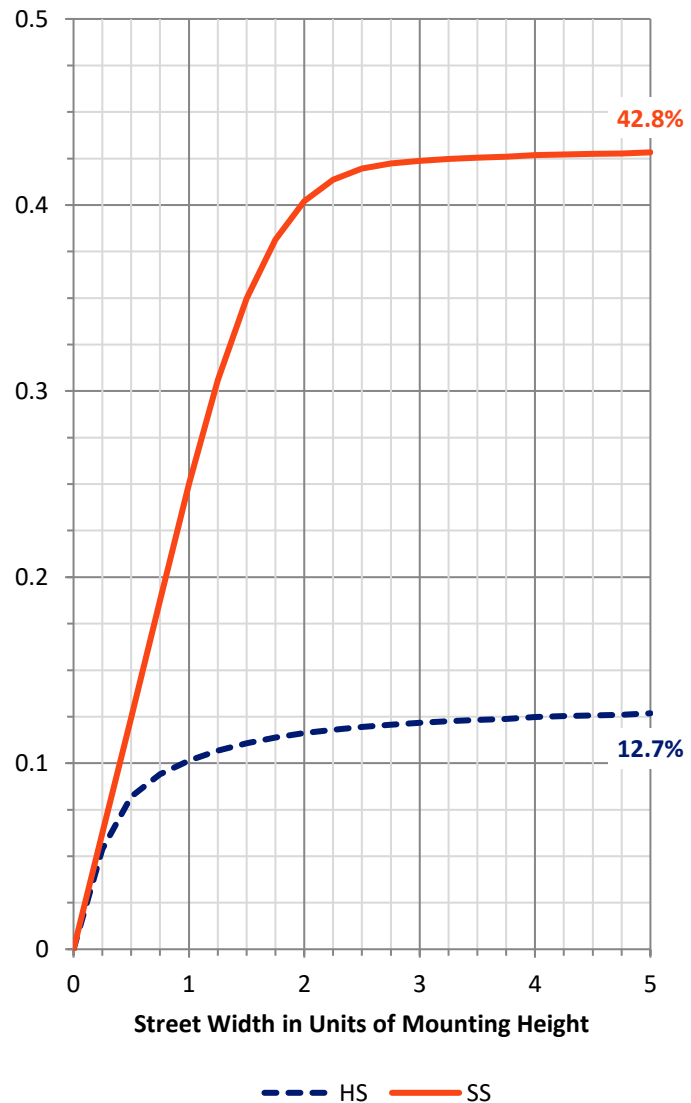
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 516.4 | 868.2 | 1384.7 |
| | % Fixture | 13.1 | 22.0 | 35.0 |
| Street Side | Lumens | 1700.8 | 867.7 | 2568.5 |
| | % Fixture | 43.0 | 22.0 | 65.0 |
| Total | Lumens | 2217.2 | 1736.0 | 3953.2 |
| | % Fixture | 56.1 | 43.9 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 27.5 | 0.7 |
| 10°-20° | 79.0 | 2.0 |
| 20°-30° | 135.9 | 3.4 |
| 30°-40° | 221.0 | 5.6 |
| 40°-50° | 356.5 | 9.0 |
| 50°-60° | 531.4 | 13.4 |
| 60°-70° | 598.5 | 15.1 |
| 70°-80° | 230.7 | 5.8 |
| 80°-90° | 36.8 | 0.9 |
| 90°-100° | 10.1 | 0.3 |
| 100°-110° | 57.4 | 1.5 |
| 110°-120° | 166.1 | 4.2 |
| 120°-130° | 273.2 | 6.9 |
| 130°-140° | 336.8 | 8.5 |
| 140°-150° | 344.6 | 8.7 |
| 150°-160° | 290.3 | 7.3 |
| 160°-170° | 191.2 | 4.8 |
| 170°-180° | 66.3 | 1.7 |
| 0°-90° | 2217.2 | 56.1 |
| 0°-180° | 3953.2 | 100.0 |



REPORT NUMBER: P226379

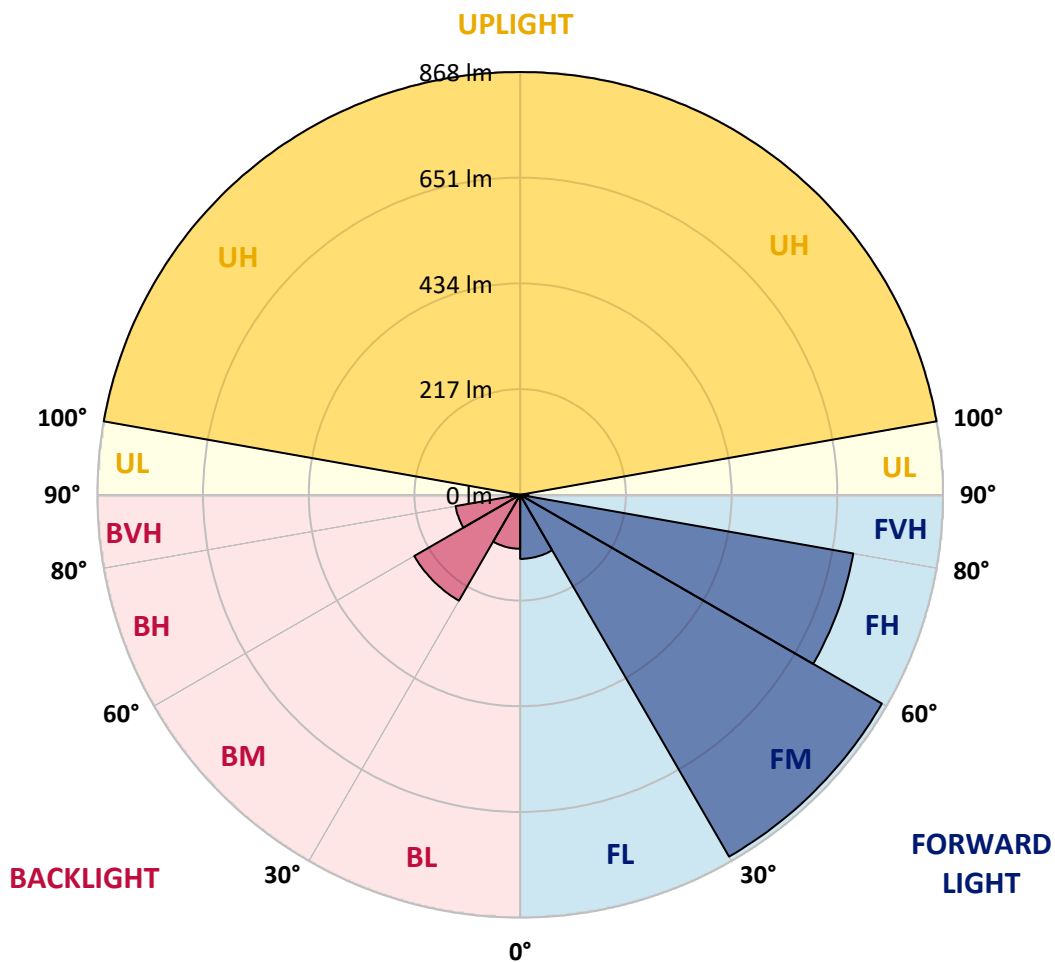
CATALOG NUMBER: ISW-AF-350-LED-E1-T3-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|---------|---------|
| | | | B | U | G |
| FL (0°-30°) | 131.5 | 3.3 | | | |
| FM (30°-60°) | 857.7 | 21.7 | | | |
| FH (60°-80°) | 694.6 | 17.6 | | | G1/1800 |
| FVH (80°-90°) | 16.9 | 0.4 | | | G1/100 |
| BL (0°-30°) | 110.9 | 2.8 | B1/500 | | |
| BM (30°-60°) | 251.1 | 6.4 | B1/1000 | | |
| BH (60°-80°) | 134.6 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 19.9 | 0.5 | | | G1/100 |
| UL (90°-100°) | 10.1 | 0.3 | | U2/50 | |
| UH (100°-180°) | 868.2 | 22.0 | | U4/1000 | |

BUG Rating: B1-U5-G1

Type III Short





REPORT NUMBER: P226379

CATALOG NUMBER: ISW-AF-350-LED-E1-T3-7030-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 293.8 | 293.8 | 293.8 | 293.8 | 293.8 | 293.8 | 293.8 | 293.8 | 293.8 | 293.8 | 293.8 |
| 2.5° | 291.6 | 292.2 | 292.8 | 292.5 | 292.5 | 292.5 | 292.5 | 291.9 | 292.8 | 292.8 | 292.2 |
| 5° | 286.7 | 287.1 | 287.4 | 288.0 | 288.7 | 289.3 | 289.6 | 289.6 | 289.9 | 289.6 | 289.0 |
| 7.5° | 279.7 | 280.0 | 281.3 | 281.3 | 281.9 | 283.2 | 283.8 | 284.5 | 285.5 | 285.5 | 285.1 |
| 10° | 277.4 | 277.4 | 277.4 | 276.5 | 277.1 | 277.4 | 278.4 | 278.4 | 281.0 | 282.2 | 282.9 |
| 12.5° | 280.0 | 279.7 | 279.7 | 277.1 | 274.9 | 273.9 | 274.9 | 275.2 | 278.1 | 280.0 | 281.3 |
| 15° | 285.8 | 285.8 | 285.1 | 281.3 | 276.8 | 273.2 | 272.9 | 272.9 | 275.2 | 278.1 | 280.3 |
| 17.5° | 299.3 | 300.5 | 296.0 | 289.9 | 282.6 | 276.8 | 274.5 | 274.2 | 275.8 | 278.1 | 280.3 |
| 20° | 324.9 | 324.6 | 317.9 | 307.0 | 294.1 | 284.5 | 279.0 | 278.4 | 278.1 | 279.4 | 281.9 |
| 22.5° | 355.4 | 354.2 | 346.1 | 332.3 | 314.7 | 297.0 | 286.4 | 285.1 | 282.6 | 283.5 | 287.1 |
| 25° | 388.2 | 388.5 | 378.6 | 360.6 | 338.4 | 317.2 | 301.2 | 299.9 | 294.4 | 293.8 | 297.7 |
| 27.5° | 421.0 | 425.1 | 411.6 | 394.6 | 368.3 | 342.9 | 319.5 | 317.6 | 312.7 | 311.1 | 315.0 |
| 30° | 468.8 | 467.2 | 450.5 | 428.3 | 402.0 | 370.2 | 347.7 | 344.2 | 334.6 | 336.8 | 341.0 |
| 32.5° | 509.3 | 512.8 | 497.7 | 471.4 | 436.7 | 403.3 | 377.3 | 375.4 | 366.0 | 368.6 | 374.4 |
| 35° | 558.7 | 567.0 | 547.1 | 514.7 | 481.3 | 447.0 | 415.8 | 410.7 | 403.3 | 408.4 | 412.9 |
| 37.5° | 615.2 | 619.4 | 604.0 | 562.2 | 528.2 | 492.2 | 456.9 | 448.9 | 440.9 | 451.5 | 459.5 |
| 40° | 669.2 | 675.9 | 656.0 | 620.7 | 581.2 | 546.8 | 508.3 | 506.7 | 488.1 | 499.6 | 520.5 |
| 42.5° | 749.1 | 757.5 | 725.7 | 684.6 | 648.9 | 607.5 | 570.9 | 562.2 | 542.0 | 558.4 | 593.4 |
| 45° | 805.0 | 804.7 | 783.1 | 749.1 | 727.3 | 687.1 | 637.7 | 627.4 | 605.6 | 627.4 | 674.3 |
| 47.5° | 825.2 | 830.0 | 822.6 | 818.5 | 810.8 | 781.5 | 708.6 | 699.0 | 678.5 | 710.9 | 754.2 |
| 50° | 855.1 | 853.8 | 853.8 | 879.5 | 901.6 | 895.5 | 791.8 | 778.0 | 756.5 | 795.3 | 857.6 |
| 52.5° | 862.8 | 851.2 | 869.2 | 918.3 | 988.6 | 993.8 | 888.5 | 880.8 | 855.1 | 893.0 | 969.7 |
| 55° | 841.3 | 838.4 | 866.9 | 938.2 | 1049.0 | 1085.6 | 1000.5 | 989.9 | 961.0 | 993.5 | 1090.7 |
| 57.5° | 793.1 | 800.5 | 846.4 | 934.1 | 1090.7 | 1166.5 | 1123.5 | 1108.4 | 1067.0 | 1086.6 | 1210.8 |
| 60° | 742.7 | 746.2 | 806.9 | 919.3 | 1102.0 | 1222.7 | 1252.6 | 1243.9 | 1172.9 | 1184.5 | 1299.8 |
| 62.5° | 686.8 | 678.5 | 741.4 | 907.1 | 1089.5 | 1300.1 | 1377.8 | 1371.1 | 1287.3 | 1283.7 | 1363.0 |
| 65° | 530.8 | 542.3 | 595.9 | 749.7 | 1003.7 | 1360.5 | 1527.1 | 1518.4 | 1414.7 | 1365.6 | 1356.3 |
| 67.5° | 341.0 | 338.8 | 376.6 | 501.2 | 750.1 | 1236.5 | 1605.1 | 1614.8 | 1487.6 | 1402.5 | 1263.2 |
| 70° | 122.3 | 125.9 | 140.0 | 227.7 | 411.3 | 823.9 | 1415.1 | 1462.9 | 1434.0 | 1333.5 | 1028.1 |
| 72.5° | 74.5 | 74.5 | 84.8 | 102.4 | 166.6 | 390.8 | 1008.5 | 1103.3 | 1170.4 | 1098.8 | 759.4 |
| 75° | 58.4 | 58.1 | 61.6 | 70.6 | 89.9 | 128.1 | 536.2 | 609.4 | 750.7 | 759.1 | 432.2 |
| 77.5° | 46.2 | 45.9 | 49.4 | 53.6 | 67.1 | 67.8 | 171.1 | 222.8 | 344.5 | 324.3 | 154.4 |
| 80° | 37.2 | 36.9 | 39.5 | 40.8 | 49.1 | 46.9 | 68.7 | 79.6 | 120.7 | 106.0 | 66.8 |
| 82.5° | 33.7 | 33.7 | 36.3 | 31.1 | 34.0 | 33.1 | 42.7 | 45.6 | 60.7 | 62.9 | 40.1 |
| 85° | 21.8 | 22.5 | 34.0 | 30.2 | 22.2 | 20.2 | 27.3 | 28.9 | 37.9 | 41.4 | 19.6 |
| 87.5° | 10.3 | 11.2 | 26.0 | 25.0 | 14.8 | 10.9 | 15.4 | 16.4 | 20.5 | 25.4 | 11.6 |
| 90° | 6.9 | 6.9 | 10.2 | 11.5 | 9.9 | 8.9 | 9.6 | 9.6 | 11.2 | 12.2 | 10.2 |
| 92.5° | 4.0 | 4.0 | 5.0 | 6.0 | 6.0 | 6.0 | 7.0 | 7.0 | 7.0 | 6.0 | 6.0 |
| 95° | 5.0 | 5.0 | 6.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.2 | 8.0 | 7.0 | 7.0 |
| 97.5° | 7.0 | 7.0 | 8.0 | 8.0 | 9.0 | 9.0 | 12.0 | 11.6 | 10.0 | 9.0 | 8.0 |
| 100° | 8.0 | 8.0 | 9.0 | 10.0 | 12.0 | 21.0 | 29.0 | 28.4 | 26.0 | 23.0 | 19.0 |
| 102.5° | 11.0 | 11.0 | 13.0 | 18.0 | 27.0 | 40.0 | 50.0 | 49.4 | 47.0 | 42.0 | 39.0 |
| 105° | 21.0 | 22.0 | 27.0 | 36.0 | 48.0 | 63.0 | 72.0 | 71.6 | 70.0 | 65.0 | 61.0 |
| 107.5° | 41.0 | 42.0 | 49.0 | 58.0 | 73.0 | 88.0 | 95.0 | 94.8 | 94.0 | 90.0 | 87.0 |
| 110° | 66.0 | 68.0 | 74.0 | 87.0 | 102.0 | 114.0 | 120.0 | 120.2 | 121.0 | 119.0 | 116.0 |



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CATALOG NUMBER: ISW-AF-350-LED-E1-T3-7030-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 99.0 | 99.0 | 106.0 | 121.0 | 134.0 | 143.0 | 148.0 | 148.4 | 150.0 | 149.0 | 147.0 |
| 115° | 140.0 | 139.0 | 147.0 | 159.0 | 168.0 | 174.0 | 179.0 | 179.6 | 182.0 | 179.0 | 177.0 |
| 117.5° | 184.0 | 184.0 | 189.0 | 197.0 | 202.0 | 205.0 | 211.0 | 211.8 | 215.0 | 210.0 | 208.0 |
| 120° | 225.0 | 223.0 | 226.0 | 233.0 | 237.0 | 243.0 | 246.0 | 246.8 | 250.0 | 245.0 | 243.0 |
| 122.5° | 263.0 | 260.0 | 261.0 | 267.0 | 271.0 | 277.0 | 279.0 | 279.8 | 283.0 | 278.0 | 276.0 |
| 125° | 298.0 | 294.0 | 296.0 | 299.0 | 305.0 | 310.0 | 313.0 | 313.4 | 315.0 | 310.0 | 310.0 |
| 127.5° | 330.0 | 329.0 | 329.0 | 333.0 | 339.0 | 340.0 | 345.0 | 345.2 | 346.0 | 346.0 | 345.0 |
| 130° | 363.0 | 361.0 | 362.0 | 366.0 | 370.0 | 372.0 | 377.0 | 377.8 | 381.0 | 381.0 | 379.0 |
| 132.5° | 396.0 | 394.0 | 393.0 | 401.0 | 404.0 | 405.0 | 411.0 | 412.0 | 416.0 | 414.0 | 414.0 |
| 135° | 429.0 | 426.0 | 426.0 | 432.0 | 435.0 | 437.0 | 443.0 | 444.0 | 448.0 | 447.0 | 450.0 |
| 137.5° | 460.0 | 457.0 | 459.0 | 460.0 | 464.0 | 468.0 | 473.0 | 473.4 | 475.0 | 476.0 | 481.0 |
| 140° | 488.0 | 485.0 | 487.0 | 489.0 | 491.0 | 497.0 | 500.0 | 500.4 | 502.0 | 504.0 | 509.0 |
| 142.5° | 518.0 | 515.0 | 517.0 | 518.0 | 521.0 | 525.0 | 527.0 | 528.2 | 533.0 | 533.0 | 534.0 |
| 145° | 550.0 | 546.0 | 544.0 | 547.0 | 550.0 | 551.0 | 556.0 | 557.2 | 562.0 | 561.0 | 558.0 |
| 147.5° | 575.0 | 572.0 | 571.0 | 574.0 | 574.0 | 575.0 | 580.0 | 581.0 | 585.0 | 586.0 | 583.0 |
| 150° | 595.0 | 592.0 | 593.0 | 593.0 | 593.0 | 593.0 | 597.0 | 597.6 | 600.0 | 603.0 | 606.0 |
| 152.5° | 611.0 | 608.0 | 608.0 | 609.0 | 610.0 | 610.0 | 611.0 | 611.6 | 614.0 | 618.0 | 623.0 |
| 155° | 629.0 | 625.0 | 625.0 | 627.0 | 630.0 | 628.0 | 626.0 | 627.0 | 631.0 | 636.0 | 638.0 |
| 157.5° | 646.0 | 643.0 | 643.0 | 644.0 | 646.0 | 645.0 | 644.0 | 644.8 | 648.0 | 650.0 | 650.0 |
| 160° | 663.0 | 660.0 | 659.0 | 656.0 | 655.0 | 655.0 | 658.0 | 659.2 | 664.0 | 661.0 | 660.0 |
| 162.5° | 673.0 | 669.0 | 669.0 | 665.0 | 661.0 | 663.0 | 667.0 | 667.8 | 671.0 | 670.0 | 668.0 |
| 165° | 681.0 | 678.0 | 676.0 | 676.0 | 673.0 | 673.0 | 672.0 | 673.0 | 677.0 | 680.0 | 678.0 |
| 167.5° | 690.0 | 687.0 | 684.0 | 686.0 | 688.0 | 685.0 | 678.0 | 679.2 | 684.0 | 688.0 | 688.0 |
| 170° | 698.0 | 695.0 | 692.0 | 692.0 | 693.0 | 691.0 | 686.0 | 686.6 | 689.0 | 694.0 | 696.0 |
| 172.5° | 699.0 | 697.0 | 695.0 | 693.0 | 690.0 | 690.0 | 689.0 | 689.6 | 692.0 | 694.0 | 696.0 |
| 175° | 700.0 | 698.0 | 697.0 | 695.0 | 691.0 | 690.0 | 690.0 | 691.0 | 695.0 | 696.0 | 694.0 |
| 177.5° | 707.0 | 705.0 | 700.0 | 699.0 | 697.0 | 695.0 | 694.0 | 695.0 | 699.0 | 701.0 | 698.0 |
| 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: P226379

CATALOG NUMBER: ISW-AF-350-LED-E1-T3-7030-ULG

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 293.8 | 293.8 | 293.8 | 293.8 | 293.8 | 293.8 | 293.8 | 293.8 | 293.8 | 293.8 | 293.8 |
| 2.5° | 293.2 | 292.5 | 292.8 | 293.2 | 293.5 | 294.4 | 294.8 | 294.8 | 294.8 | 294.4 | 295.1 |
| 5° | 289.6 | 289.0 | 289.0 | 289.9 | 290.9 | 292.2 | 294.1 | 295.7 | 296.4 | 296.7 | 296.7 |
| 7.5° | 285.8 | 285.1 | 285.5 | 287.1 | 288.7 | 289.6 | 291.6 | 292.5 | 295.1 | 295.1 | 295.7 |
| 10° | 283.2 | 283.8 | 284.2 | 285.8 | 287.1 | 287.1 | 286.7 | 286.1 | 285.5 | 287.1 | 286.4 |
| 12.5° | 281.6 | 282.6 | 282.2 | 284.2 | 284.8 | 282.2 | 278.4 | 273.2 | 272.6 | 273.2 | 273.9 |
| 15° | 281.0 | 281.0 | 281.9 | 281.9 | 278.7 | 273.6 | 268.8 | 269.1 | 269.7 | 271.6 | 271.6 |
| 17.5° | 281.0 | 281.3 | 281.9 | 279.7 | 273.9 | 269.4 | 268.4 | 267.5 | 263.9 | 263.0 | 262.0 |
| 20° | 283.2 | 282.6 | 283.2 | 279.0 | 273.9 | 270.4 | 263.0 | 255.9 | 249.2 | 246.3 | 245.0 |
| 22.5° | 288.7 | 287.7 | 287.4 | 283.2 | 276.8 | 264.9 | 250.5 | 239.5 | 228.0 | 224.1 | 222.8 |
| 25° | 298.3 | 298.0 | 295.7 | 292.8 | 274.9 | 251.7 | 233.4 | 216.1 | 203.6 | 196.8 | 197.2 |
| 27.5° | 315.3 | 315.3 | 314.0 | 301.2 | 264.9 | 235.4 | 210.6 | 193.0 | 180.1 | 173.7 | 172.7 |
| 30° | 341.0 | 341.6 | 342.3 | 303.4 | 249.2 | 211.3 | 185.6 | 173.7 | 166.0 | 161.2 | 160.9 |
| 32.5° | 372.8 | 376.3 | 372.1 | 300.9 | 227.7 | 182.1 | 166.0 | 161.8 | 158.0 | 154.8 | 154.4 |
| 35° | 414.9 | 424.5 | 398.2 | 290.6 | 203.6 | 162.2 | 154.1 | 151.2 | 148.3 | 146.1 | 146.4 |
| 37.5° | 471.4 | 480.7 | 414.9 | 273.2 | 172.7 | 150.9 | 147.4 | 142.9 | 138.4 | 133.6 | 132.9 |
| 40° | 538.2 | 535.3 | 420.6 | 240.5 | 153.5 | 145.5 | 140.6 | 134.9 | 127.2 | 120.1 | 118.8 |
| 42.5° | 604.9 | 585.7 | 415.8 | 200.0 | 141.0 | 140.6 | 133.9 | 126.5 | 118.8 | 112.7 | 112.7 |
| 45° | 679.8 | 630.0 | 401.0 | 162.2 | 131.0 | 135.5 | 127.2 | 119.4 | 112.4 | 107.9 | 107.6 |
| 47.5° | 750.4 | 671.4 | 376.6 | 135.2 | 121.1 | 128.8 | 122.0 | 115.0 | 108.2 | 104.4 | 103.4 |
| 50° | 833.2 | 718.6 | 358.0 | 116.9 | 111.4 | 122.0 | 119.1 | 112.7 | 106.3 | 101.8 | 101.1 |
| 52.5° | 917.0 | 764.5 | 343.9 | 104.4 | 102.7 | 116.9 | 117.8 | 114.0 | 107.2 | 98.6 | 97.9 |
| 55° | 1004.7 | 822.0 | 315.6 | 94.4 | 95.0 | 113.0 | 119.4 | 116.6 | 111.7 | 97.6 | 97.0 |
| 57.5° | 1078.2 | 875.0 | 266.2 | 87.7 | 88.9 | 110.1 | 120.1 | 114.6 | 109.2 | 98.3 | 97.3 |
| 60° | 1135.7 | 911.3 | 195.2 | 82.2 | 83.5 | 106.9 | 117.2 | 107.9 | 100.8 | 98.3 | 96.6 |
| 62.5° | 1153.4 | 912.5 | 129.7 | 75.8 | 79.3 | 101.5 | 112.1 | 104.4 | 96.0 | 97.3 | 96.6 |
| 65° | 1109.1 | 864.4 | 92.8 | 69.7 | 75.8 | 95.0 | 109.8 | 100.8 | 93.8 | 98.9 | 98.3 |
| 67.5° | 972.6 | 728.2 | 74.5 | 64.9 | 71.0 | 88.3 | 105.6 | 97.6 | 91.8 | 102.4 | 100.5 |
| 70° | 757.8 | 522.4 | 63.3 | 60.0 | 65.8 | 81.9 | 99.9 | 94.1 | 89.3 | 99.5 | 97.0 |
| 72.5° | 499.6 | 307.6 | 55.9 | 55.5 | 59.7 | 76.4 | 93.4 | 90.9 | 85.1 | 90.2 | 86.4 |
| 75° | 260.7 | 142.6 | 48.5 | 50.4 | 53.0 | 71.6 | 87.7 | 85.1 | 78.7 | 80.6 | 79.3 |
| 77.5° | 102.4 | 66.8 | 42.1 | 44.3 | 47.2 | 64.5 | 80.3 | 77.7 | 72.2 | 70.6 | 70.3 |
| 80° | 56.2 | 45.0 | 35.0 | 37.9 | 39.8 | 58.1 | 72.6 | 69.7 | 63.9 | 62.9 | 62.0 |
| 82.5° | 35.6 | 29.2 | 28.9 | 30.8 | 33.4 | 51.7 | 65.2 | 60.7 | 55.9 | 65.8 | 53.3 |
| 85° | 16.7 | 17.3 | 20.5 | 23.1 | 26.0 | 44.0 | 56.8 | 52.0 | 47.2 | 45.9 | 40.8 |
| 87.5° | 9.3 | 11.6 | 13.5 | 15.7 | 18.0 | 30.8 | 45.0 | 40.5 | 35.3 | 30.2 | 31.1 |
| 90° | 9.2 | 9.2 | 12.9 | 12.5 | 10.9 | 11.5 | 30.2 | 27.9 | 24.7 | 13.3 | 10.5 |
| 92.5° | 6.0 | 6.0 | 6.0 | 7.0 | 7.0 | 6.0 | 6.0 | 6.0 | 5.0 | 4.0 | 4.0 |
| 95° | 7.0 | 7.0 | 7.0 | 8.0 | 7.0 | 7.0 | 7.0 | 7.0 | 6.0 | 5.0 | 5.0 |
| 97.5° | 8.0 | 8.0 | 9.0 | 10.0 | 12.0 | 9.0 | 9.0 | 8.0 | 8.0 | 7.0 | 7.0 |
| 100° | 19.0 | 19.0 | 23.0 | 26.0 | 29.0 | 21.0 | 12.0 | 10.0 | 9.0 | 8.0 | 8.0 |
| 102.5° | 38.0 | 39.0 | 42.0 | 47.0 | 50.0 | 40.0 | 27.0 | 18.0 | 13.0 | 11.0 | 11.0 |
| 105° | 61.0 | 61.0 | 65.0 | 70.0 | 72.0 | 63.0 | 48.0 | 36.0 | 27.0 | 22.0 | 21.0 |
| 107.5° | 86.0 | 87.0 | 90.0 | 94.0 | 95.0 | 88.0 | 73.0 | 58.0 | 49.0 | 42.0 | 41.0 |
| 110° | 117.0 | 116.0 | 119.0 | 121.0 | 120.0 | 114.0 | 102.0 | 87.0 | 74.0 | 68.0 | 66.0 |



REPORT NUMBER: P226379

CATALOG NUMBER: ISW-AF-350-LED-E1-T3-7030-ULG

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 147.0 | 147.0 | 149.0 | 150.0 | 148.0 | 143.0 | 134.0 | 121.0 | 106.0 | 99.0 | 99.0 |
| 115° | 178.0 | 177.0 | 179.0 | 182.0 | 179.0 | 174.0 | 168.0 | 159.0 | 147.0 | 139.0 | 140.0 |
| 117.5° | 209.0 | 208.0 | 210.0 | 215.0 | 211.0 | 205.0 | 202.0 | 197.0 | 189.0 | 184.0 | 184.0 |
| 120° | 243.0 | 243.0 | 245.0 | 250.0 | 246.0 | 243.0 | 237.0 | 233.0 | 226.0 | 223.0 | 225.0 |
| 122.5° | 277.0 | 276.0 | 278.0 | 283.0 | 279.0 | 277.0 | 271.0 | 267.0 | 261.0 | 260.0 | 263.0 |
| 125° | 310.0 | 310.0 | 310.0 | 315.0 | 313.0 | 310.0 | 305.0 | 299.0 | 296.0 | 294.0 | 298.0 |
| 127.5° | 347.0 | 345.0 | 346.0 | 346.0 | 345.0 | 340.0 | 339.0 | 333.0 | 329.0 | 329.0 | 330.0 |
| 130° | 380.0 | 379.0 | 381.0 | 381.0 | 377.0 | 372.0 | 370.0 | 366.0 | 362.0 | 361.0 | 363.0 |
| 132.5° | 415.0 | 414.0 | 414.0 | 416.0 | 411.0 | 405.0 | 404.0 | 401.0 | 393.0 | 394.0 | 396.0 |
| 135° | 451.0 | 450.0 | 447.0 | 448.0 | 443.0 | 437.0 | 435.0 | 432.0 | 426.0 | 426.0 | 429.0 |
| 137.5° | 482.0 | 481.0 | 476.0 | 475.0 | 473.0 | 468.0 | 464.0 | 460.0 | 459.0 | 457.0 | 460.0 |
| 140° | 511.0 | 509.0 | 504.0 | 502.0 | 500.0 | 497.0 | 491.0 | 489.0 | 487.0 | 485.0 | 488.0 |
| 142.5° | 536.0 | 534.0 | 533.0 | 533.0 | 527.0 | 525.0 | 521.0 | 518.0 | 517.0 | 515.0 | 518.0 |
| 145° | 560.0 | 558.0 | 561.0 | 562.0 | 556.0 | 551.0 | 550.0 | 547.0 | 544.0 | 546.0 | 550.0 |
| 147.5° | 585.0 | 583.0 | 586.0 | 585.0 | 580.0 | 575.0 | 574.0 | 574.0 | 571.0 | 572.0 | 575.0 |
| 150° | 610.0 | 606.0 | 603.0 | 600.0 | 597.0 | 593.0 | 593.0 | 593.0 | 593.0 | 592.0 | 595.0 |
| 152.5° | 628.0 | 623.0 | 618.0 | 614.0 | 611.0 | 610.0 | 610.0 | 609.0 | 608.0 | 608.0 | 611.0 |
| 155° | 641.0 | 638.0 | 636.0 | 631.0 | 626.0 | 628.0 | 630.0 | 627.0 | 625.0 | 625.0 | 629.0 |
| 157.5° | 655.0 | 650.0 | 650.0 | 648.0 | 644.0 | 645.0 | 646.0 | 644.0 | 643.0 | 643.0 | 646.0 |
| 160° | 666.0 | 660.0 | 661.0 | 664.0 | 658.0 | 655.0 | 655.0 | 656.0 | 659.0 | 660.0 | 663.0 |
| 162.5° | 674.0 | 668.0 | 670.0 | 671.0 | 667.0 | 663.0 | 661.0 | 665.0 | 669.0 | 669.0 | 673.0 |
| 165° | 682.0 | 678.0 | 680.0 | 677.0 | 672.0 | 673.0 | 673.0 | 676.0 | 676.0 | 678.0 | 681.0 |
| 167.5° | 694.0 | 688.0 | 688.0 | 684.0 | 678.0 | 685.0 | 688.0 | 686.0 | 684.0 | 687.0 | 690.0 |
| 170° | 701.0 | 696.0 | 694.0 | 689.0 | 686.0 | 691.0 | 693.0 | 692.0 | 692.0 | 695.0 | 698.0 |
| 172.5° | 701.0 | 696.0 | 694.0 | 692.0 | 689.0 | 690.0 | 690.0 | 693.0 | 695.0 | 697.0 | 699.0 |
| 175° | 699.0 | 694.0 | 696.0 | 695.0 | 690.0 | 690.0 | 691.0 | 695.0 | 697.0 | 698.0 | 700.0 |
| 177.5° | 702.0 | 698.0 | 701.0 | 699.0 | 694.0 | 695.0 | 697.0 | 699.0 | 700.0 | 705.0 | 707.0 |
| 180° | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |

(END OF REPORT)