

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: P226441

Luminaire Tested: **IST-AF-350-LED-E1-T3-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226441
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: IST-AF-350-LED-E1-T3-8030-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, 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: 3779.9 lumens
Efficiency: N/A
Efficacy: 102.7 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

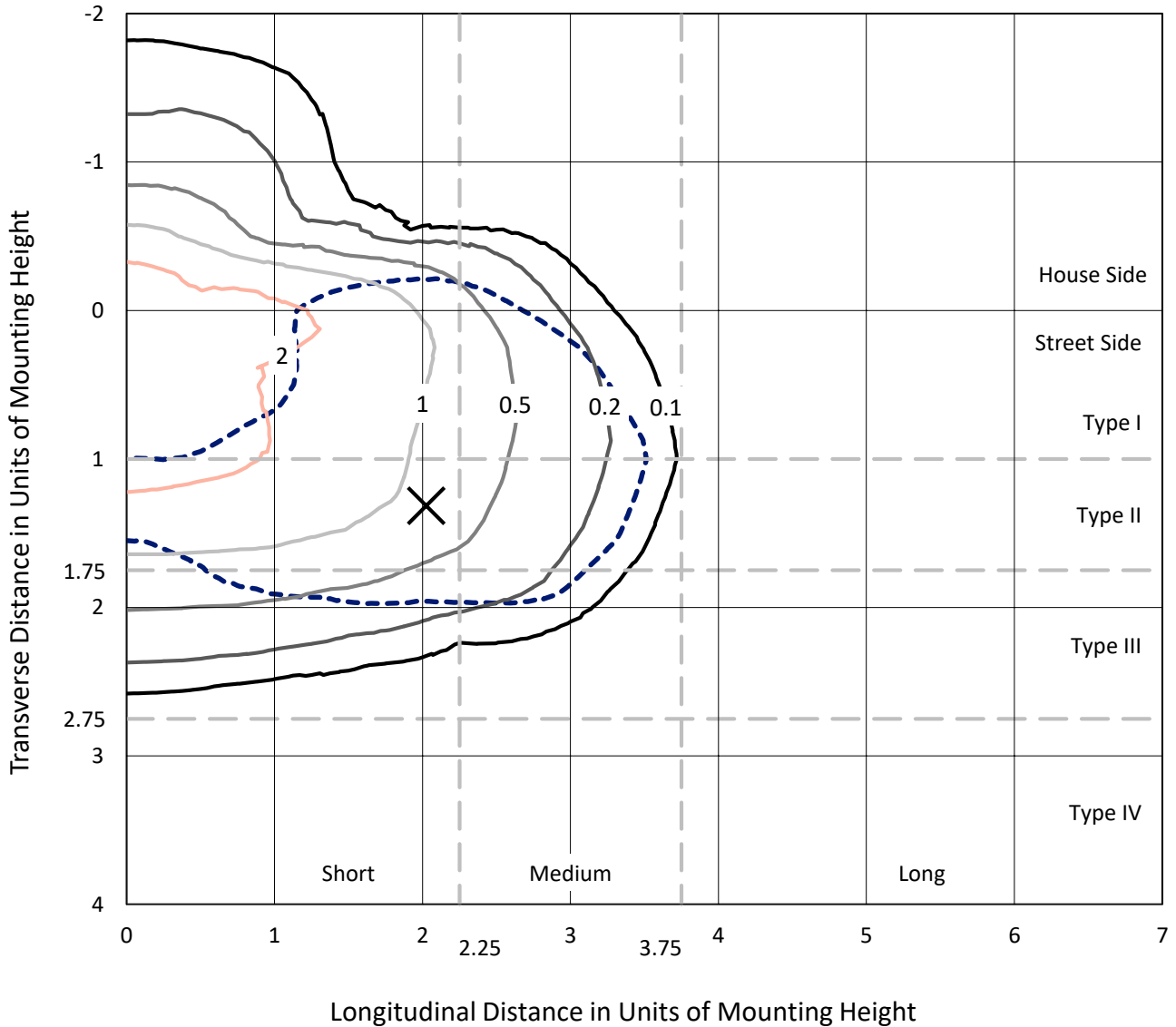
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

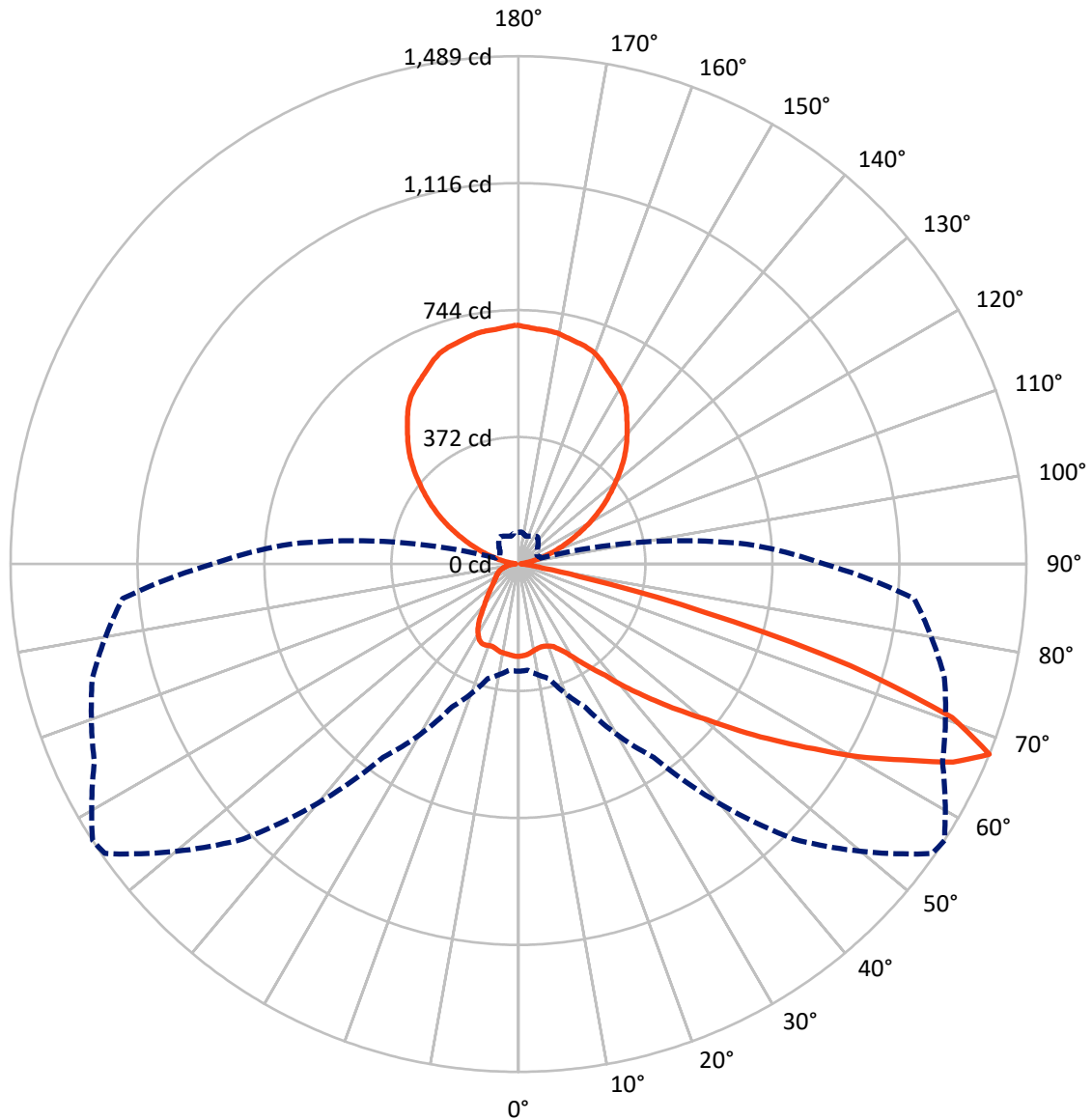
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - Non-Cutoff

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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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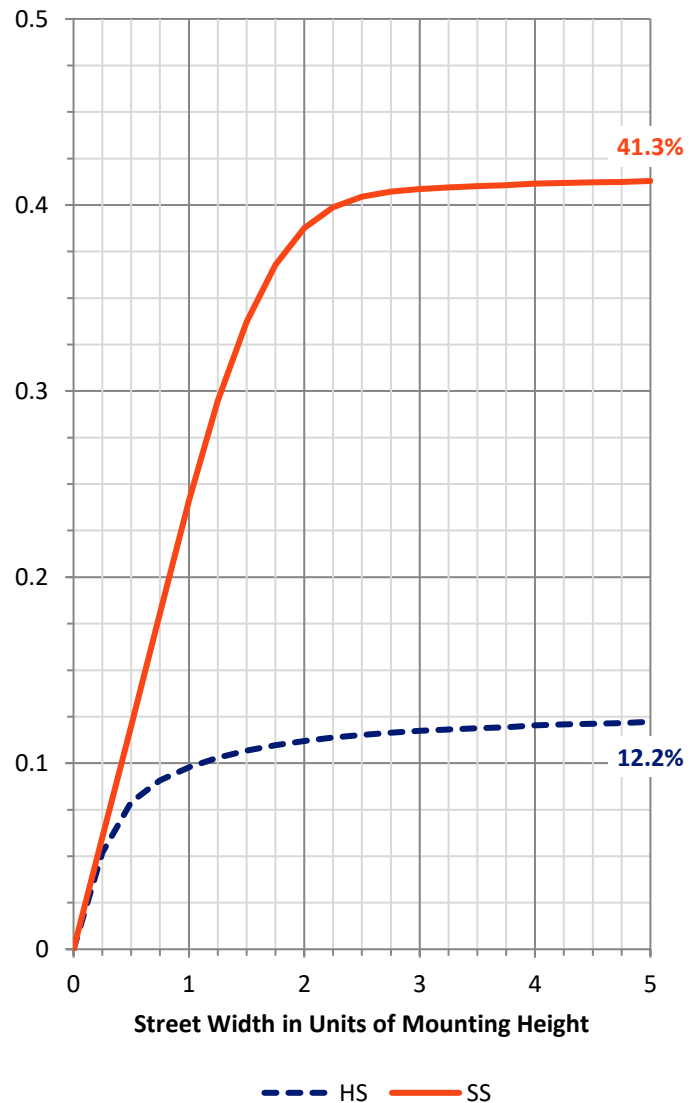
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 476.1 | 868.2 | 1344.3 |
| | % Fixture | 12.6 | 23.0 | 35.6 |
| Street Side | Lumens | 1567.9 | 867.7 | 2435.6 |
| | % Fixture | 41.5 | 23.0 | 64.4 |
| Total | Lumens | 2044.0 | 1735.9 | 3779.9 |
| | % Fixture | 54.1 | 45.9 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 25.3 | 0.7 |
| 10°-20° | 72.8 | 1.9 |
| 20°-30° | 125.3 | 3.3 |
| 30°-40° | 203.7 | 5.4 |
| 40°-50° | 328.6 | 8.7 |
| 50°-60° | 489.9 | 13.0 |
| 60°-70° | 551.7 | 14.6 |
| 70°-80° | 212.7 | 5.6 |
| 80°-90° | 34.0 | 0.9 |
| 90°-100° | 10.0 | 0.3 |
| 100°-110° | 57.4 | 1.5 |
| 110°-120° | 166.1 | 4.4 |
| 120°-130° | 273.2 | 7.2 |
| 130°-140° | 336.8 | 8.9 |
| 140°-150° | 344.6 | 9.1 |
| 150°-160° | 290.3 | 7.7 |
| 160°-170° | 191.2 | 5.1 |
| 170°-180° | 66.3 | 1.8 |
| 0°-90° | 2044.0 | 54.1 |
| 0°-180° | 3779.9 | 100.0 |



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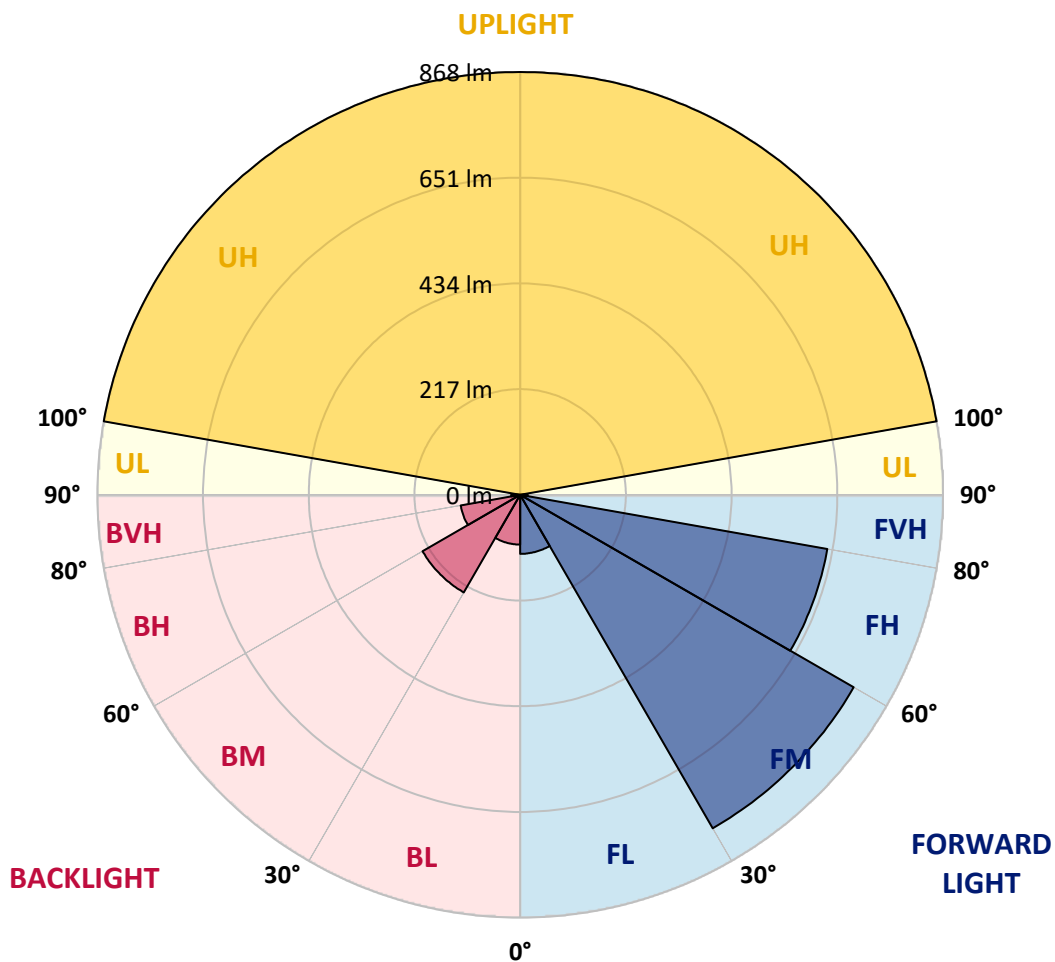
CATALOG NUMBER: IST-AF-350-LED-E1-T3-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|---------|--------|
| | | | B | U | G |
| FL (0°-30°) | 121.2 | 3.2 | | | |
| FM (30°-60°) | 790.7 | 20.9 | | | |
| FH (60°-80°) | 640.3 | 16.9 | | | G0/660 |
| FVH (80°-90°) | 15.6 | 0.4 | | | G1/100 |
| BL (0°-30°) | 102.2 | 2.7 | B0/110 | | |
| BM (30°-60°) | 231.5 | 6.1 | B1/1000 | | |
| BH (60°-80°) | 124.1 | 3.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 18.3 | 0.5 | | | G1/100 |
| UL (90°-100°) | 10.0 | 0.3 | | U2/50 | |
| UH (100°-180°) | 868.2 | 23.0 | | U4/1000 | |

BUG Rating: B1-U5-G1

Type III Short





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CATALOG NUMBER: IST-AF-350-LED-E1-T3-8030-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 |
| 2.5° | 268.8 | 269.4 | 269.9 | 269.6 | 269.6 | 269.6 | 269.6 | 269.6 | 269.9 | 269.9 | 269.4 |
| 5° | 264.3 | 264.6 | 264.9 | 265.5 | 266.1 | 266.7 | 267.0 | 267.0 | 267.3 | 267.0 | 266.4 |
| 7.5° | 257.8 | 258.1 | 259.3 | 259.3 | 259.9 | 261.1 | 261.7 | 262.2 | 263.1 | 263.1 | 262.8 |
| 10° | 255.7 | 255.7 | 255.7 | 254.8 | 255.4 | 255.7 | 256.6 | 256.6 | 259.0 | 260.2 | 260.8 |
| 12.5° | 258.1 | 257.8 | 257.8 | 255.4 | 253.4 | 252.5 | 253.4 | 253.7 | 256.3 | 258.1 | 259.3 |
| 15° | 263.4 | 263.4 | 262.8 | 259.3 | 255.1 | 251.9 | 251.6 | 251.6 | 253.7 | 256.3 | 258.4 |
| 17.5° | 275.9 | 277.0 | 272.9 | 267.3 | 260.5 | 255.1 | 253.1 | 252.8 | 254.3 | 256.3 | 258.4 |
| 20° | 299.5 | 299.2 | 293.0 | 283.0 | 271.1 | 262.2 | 257.2 | 256.6 | 256.3 | 257.5 | 259.9 |
| 22.5° | 327.7 | 326.5 | 319.1 | 306.4 | 290.1 | 273.8 | 264.0 | 262.8 | 260.5 | 261.4 | 264.6 |
| 25° | 357.9 | 358.1 | 349.0 | 332.4 | 312.0 | 292.4 | 277.6 | 276.5 | 271.4 | 270.8 | 274.4 |
| 27.5° | 388.0 | 391.9 | 379.5 | 363.8 | 339.5 | 316.1 | 294.5 | 292.7 | 288.3 | 286.8 | 290.4 |
| 30° | 432.1 | 430.7 | 415.3 | 394.9 | 370.6 | 341.3 | 320.6 | 317.3 | 308.4 | 310.5 | 314.3 |
| 32.5° | 469.4 | 472.7 | 458.8 | 434.5 | 402.5 | 371.8 | 347.8 | 346.0 | 337.4 | 339.8 | 345.1 |
| 35° | 515.0 | 522.7 | 504.4 | 474.5 | 443.7 | 412.0 | 383.3 | 378.6 | 371.8 | 376.5 | 380.6 |
| 37.5° | 567.1 | 571.0 | 556.8 | 518.3 | 486.9 | 453.8 | 421.2 | 413.8 | 406.4 | 416.2 | 423.6 |
| 40° | 616.8 | 623.1 | 604.7 | 572.2 | 535.7 | 504.1 | 468.6 | 467.1 | 449.9 | 460.6 | 479.8 |
| 42.5° | 690.5 | 698.2 | 668.9 | 631.1 | 598.2 | 560.0 | 526.3 | 518.3 | 499.6 | 514.7 | 547.0 |
| 45° | 742.0 | 741.8 | 721.9 | 690.5 | 670.4 | 633.4 | 587.8 | 578.4 | 558.2 | 578.4 | 621.6 |
| 47.5° | 760.7 | 765.1 | 758.3 | 754.5 | 747.4 | 720.4 | 653.3 | 644.4 | 625.4 | 655.3 | 695.3 |
| 50° | 788.2 | 787.0 | 787.0 | 810.7 | 831.1 | 825.5 | 729.9 | 717.2 | 697.4 | 733.2 | 790.6 |
| 52.5° | 795.3 | 784.7 | 801.2 | 846.5 | 911.4 | 916.1 | 819.0 | 811.9 | 788.2 | 823.2 | 893.9 |
| 55° | 775.5 | 772.8 | 799.2 | 864.9 | 967.0 | 1000.7 | 922.3 | 912.5 | 885.9 | 915.8 | 1005.5 |
| 57.5° | 731.1 | 737.9 | 780.2 | 861.0 | 1005.5 | 1075.3 | 1035.7 | 1021.8 | 983.6 | 1001.6 | 1116.2 |
| 60° | 684.6 | 687.9 | 743.8 | 847.4 | 1015.8 | 1127.1 | 1154.7 | 1146.7 | 1081.3 | 1091.9 | 1198.2 |
| 62.5° | 633.1 | 625.4 | 683.4 | 836.2 | 1004.3 | 1198.5 | 1270.1 | 1263.9 | 1186.6 | 1183.4 | 1256.5 |
| 65° | 489.3 | 499.9 | 549.4 | 691.1 | 925.3 | 1254.1 | 1407.7 | 1399.7 | 1304.1 | 1258.8 | 1250.3 |
| 67.5° | 314.3 | 312.3 | 347.2 | 462.0 | 691.4 | 1139.9 | 1479.7 | 1488.5 | 1371.3 | 1292.9 | 1164.4 |
| 70° | 112.8 | 116.0 | 129.1 | 209.9 | 379.2 | 759.5 | 1304.4 | 1348.5 | 1321.9 | 1229.2 | 947.8 |
| 72.5° | 68.7 | 68.7 | 78.1 | 94.4 | 153.6 | 360.2 | 929.7 | 1017.0 | 1078.9 | 1012.9 | 700.0 |
| 75° | 53.9 | 53.6 | 56.8 | 65.1 | 82.9 | 118.1 | 494.3 | 561.8 | 692.0 | 699.7 | 398.4 |
| 77.5° | 42.6 | 42.3 | 45.6 | 49.4 | 61.9 | 62.5 | 157.8 | 205.4 | 317.6 | 299.0 | 142.4 |
| 80° | 34.3 | 34.0 | 36.4 | 37.6 | 45.3 | 43.2 | 63.3 | 73.4 | 111.3 | 97.7 | 61.6 |
| 82.5° | 31.1 | 31.1 | 33.4 | 28.7 | 31.4 | 30.5 | 39.4 | 42.0 | 55.9 | 58.0 | 37.0 |
| 85° | 20.1 | 20.7 | 31.4 | 27.8 | 20.4 | 18.6 | 25.2 | 26.6 | 34.9 | 38.2 | 18.1 |
| 87.5° | 9.5 | 10.4 | 24.0 | 23.1 | 13.6 | 10.1 | 14.2 | 15.1 | 18.9 | 23.4 | 10.7 |
| 90° | 6.8 | 6.8 | 10.0 | 11.3 | 9.8 | 8.8 | 9.4 | 9.5 | 11.1 | 12.0 | 10.0 |
| 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: IST-AF-350-LED-E1-T3-8030-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 |



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CATALOG NUMBER: IST-AF-350-LED-E1-T3-8030-ULG

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 | 270.8 |
| 2.5° | 270.2 | 269.6 | 269.9 | 270.2 | 270.5 | 271.4 | 271.7 | 271.7 | 271.7 | 271.4 | 272.0 |
| 5° | 267.0 | 266.4 | 266.4 | 267.3 | 268.2 | 269.4 | 271.1 | 272.6 | 273.2 | 273.5 | 273.5 |
| 7.5° | 263.4 | 262.8 | 263.1 | 264.6 | 266.1 | 267.0 | 268.8 | 269.6 | 272.0 | 272.0 | 272.6 |
| 10° | 261.1 | 261.7 | 262.0 | 263.4 | 264.6 | 264.6 | 264.3 | 263.7 | 263.1 | 264.6 | 264.0 |
| 12.5° | 259.6 | 260.5 | 260.2 | 262.0 | 262.5 | 260.2 | 256.6 | 251.9 | 251.3 | 251.9 | 252.5 |
| 15° | 259.0 | 259.0 | 259.9 | 259.9 | 256.9 | 252.2 | 247.7 | 248.0 | 248.6 | 250.4 | 250.4 |
| 17.5° | 259.0 | 259.3 | 259.9 | 257.8 | 252.5 | 248.3 | 247.4 | 246.6 | 243.3 | 242.4 | 241.5 |
| 20° | 261.1 | 260.5 | 261.1 | 257.2 | 252.5 | 249.2 | 242.4 | 235.9 | 229.7 | 227.0 | 225.8 |
| 22.5° | 266.1 | 265.2 | 264.9 | 261.1 | 255.1 | 244.2 | 230.9 | 220.8 | 210.2 | 206.6 | 205.4 |
| 25° | 275.0 | 274.7 | 272.6 | 269.9 | 253.4 | 232.1 | 215.2 | 199.2 | 187.7 | 181.4 | 181.7 |
| 27.5° | 290.7 | 290.7 | 289.5 | 277.6 | 244.2 | 217.0 | 194.2 | 177.9 | 166.1 | 160.1 | 159.2 |
| 30° | 314.3 | 314.9 | 315.5 | 279.7 | 229.7 | 194.8 | 171.1 | 160.1 | 153.0 | 148.6 | 148.3 |
| 32.5° | 343.6 | 346.9 | 343.1 | 277.3 | 209.9 | 167.8 | 153.0 | 149.2 | 145.6 | 142.7 | 142.4 |
| 35° | 382.4 | 391.3 | 367.0 | 267.9 | 187.7 | 149.5 | 142.1 | 139.4 | 136.7 | 134.7 | 135.0 |
| 37.5° | 434.5 | 443.1 | 382.4 | 251.9 | 159.2 | 139.1 | 135.9 | 131.7 | 127.6 | 123.1 | 122.5 |
| 40° | 496.1 | 493.4 | 387.7 | 221.7 | 141.5 | 134.1 | 129.6 | 124.3 | 117.2 | 110.7 | 109.5 |
| 42.5° | 557.6 | 539.9 | 383.3 | 184.4 | 129.9 | 129.6 | 123.4 | 116.6 | 109.5 | 103.9 | 103.9 |
| 45° | 626.6 | 580.7 | 369.7 | 149.5 | 120.8 | 124.9 | 117.2 | 110.1 | 103.6 | 99.5 | 99.2 |
| 47.5° | 691.7 | 618.9 | 347.2 | 124.6 | 111.6 | 118.7 | 112.5 | 106.0 | 99.7 | 96.2 | 95.3 |
| 50° | 768.1 | 662.4 | 330.0 | 107.7 | 102.7 | 112.5 | 109.8 | 103.9 | 98.0 | 93.8 | 93.2 |
| 52.5° | 845.3 | 704.8 | 317.0 | 96.2 | 94.7 | 107.7 | 108.6 | 105.1 | 98.9 | 90.9 | 90.3 |
| 55° | 926.2 | 757.7 | 291.0 | 87.0 | 87.6 | 104.2 | 110.1 | 107.4 | 103.0 | 90.0 | 89.4 |
| 57.5° | 993.9 | 806.6 | 245.4 | 80.8 | 82.0 | 101.5 | 110.7 | 105.7 | 100.6 | 90.6 | 89.7 |
| 60° | 1046.9 | 840.0 | 180.0 | 75.8 | 77.0 | 98.6 | 108.0 | 99.5 | 92.9 | 90.6 | 89.1 |
| 62.5° | 1063.2 | 841.2 | 119.6 | 69.9 | 73.1 | 93.5 | 103.3 | 96.2 | 88.5 | 89.7 | 89.1 |
| 65° | 1022.4 | 796.8 | 85.5 | 64.2 | 69.9 | 87.6 | 101.2 | 92.9 | 86.4 | 91.2 | 90.6 |
| 67.5° | 896.6 | 671.3 | 68.7 | 59.8 | 65.4 | 81.4 | 97.4 | 90.0 | 84.7 | 94.4 | 92.6 |
| 70° | 698.5 | 481.6 | 58.3 | 55.4 | 60.7 | 75.5 | 92.1 | 86.7 | 82.3 | 91.8 | 89.4 |
| 72.5° | 460.6 | 283.6 | 51.5 | 51.2 | 55.1 | 70.4 | 86.1 | 83.8 | 78.4 | 83.2 | 79.6 |
| 75° | 240.3 | 131.4 | 44.7 | 46.5 | 48.8 | 66.0 | 80.8 | 78.4 | 72.5 | 74.3 | 73.1 |
| 77.5° | 94.4 | 61.6 | 38.8 | 40.8 | 43.5 | 59.5 | 74.0 | 71.6 | 66.6 | 65.1 | 64.8 |
| 80° | 51.8 | 41.4 | 32.3 | 34.9 | 36.7 | 53.6 | 66.9 | 64.2 | 58.9 | 58.0 | 57.1 |
| 82.5° | 32.9 | 26.9 | 26.6 | 28.4 | 30.8 | 47.7 | 60.1 | 55.9 | 51.5 | 60.7 | 49.1 |
| 85° | 15.4 | 16.0 | 18.9 | 21.3 | 24.0 | 40.6 | 52.4 | 48.0 | 43.5 | 42.3 | 37.6 |
| 87.5° | 8.6 | 10.7 | 12.4 | 14.5 | 16.6 | 28.4 | 41.4 | 37.3 | 32.6 | 27.8 | 28.7 |
| 90° | 9.1 | 9.1 | 12.6 | 12.3 | 10.6 | 11.1 | 28.4 | 26.4 | 23.3 | 12.7 | 10.0 |
| 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 |



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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)