

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: P228772

Luminaire Tested: **ISC-AF-600-LED-E1-RW-7060-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29765)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-600-LED-E1-RW-7060-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-RECTANGULAR WIDE TYPE I, WITH UPLIGHT
GLOW
Light Source: (16) 5700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5324.2 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B2 - U5 - G2

Input Watts (W): 50.4
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

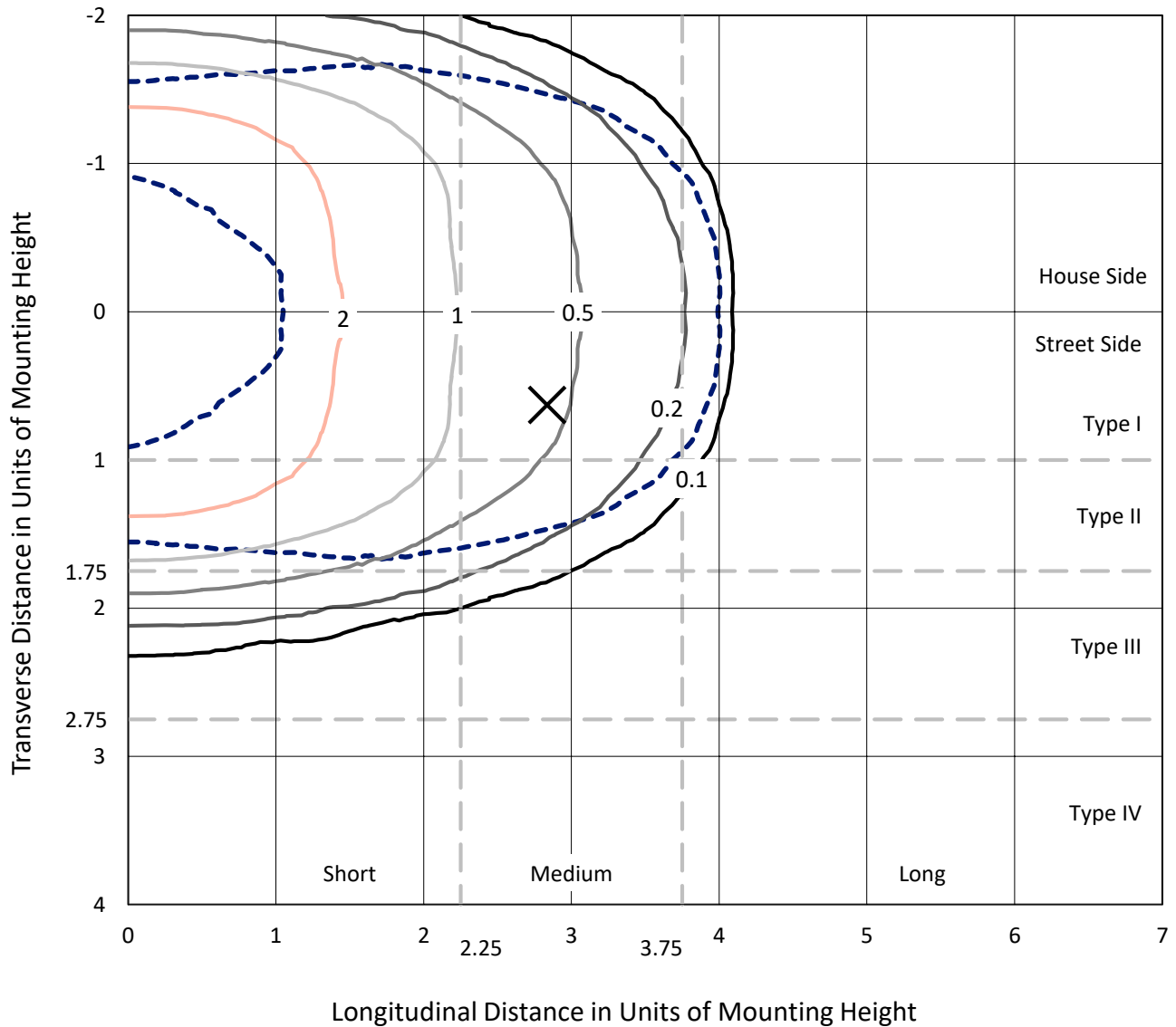


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

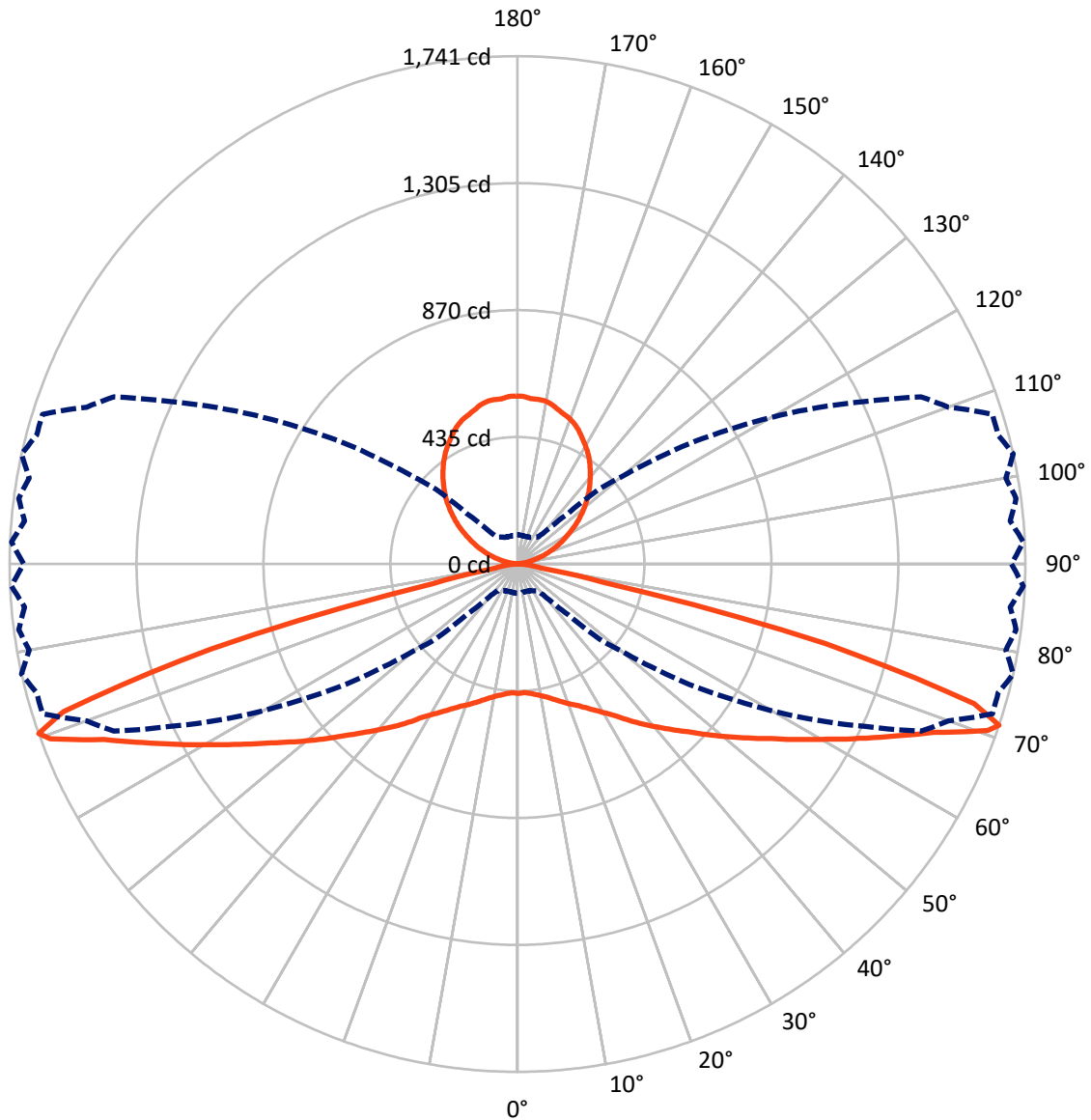


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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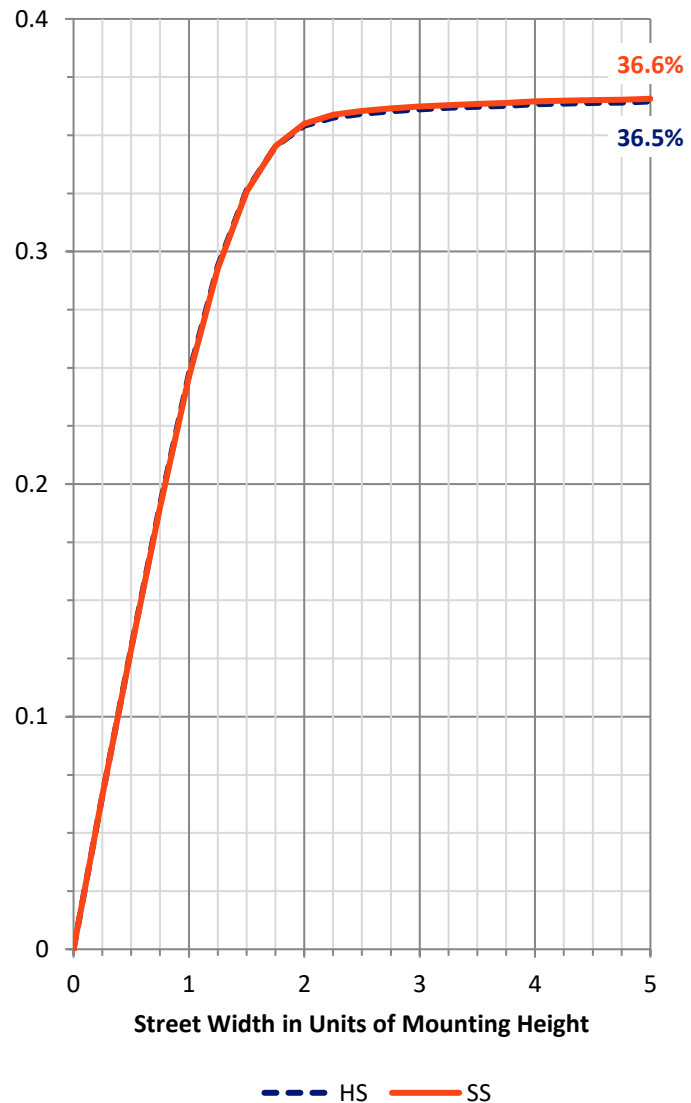
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1949.0 | 713.1 | 2662.1 |
| | % Fixture | 36.6 | 13.4 | 50.0 |
| Street Side | Lumens | 1949.0 | 713.1 | 2662.1 |
| | % Fixture | 36.6 | 13.4 | 50.0 |
| Total | Lumens | 3898.0 | 1426.2 | 5324.2 |
| | % Fixture | 73.2 | 26.8 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.9 | 0.8 |
| 10°-20° | 134.0 | 2.5 |
| 20°-30° | 250.7 | 4.7 |
| 30°-40° | 436.4 | 8.2 |
| 40°-50° | 712.1 | 13.4 |
| 50°-60° | 982.7 | 18.5 |
| 60°-70° | 932.2 | 17.5 |
| 70°-80° | 383.7 | 7.2 |
| 80°-90° | 23.2 | 0.4 |
| 90°-100° | 4.7 | 0.1 |
| 100°-110° | 69.0 | 1.3 |
| 110°-120° | 153.0 | 2.9 |
| 120°-130° | 223.9 | 4.2 |
| 130°-140° | 265.6 | 5.0 |
| 140°-150° | 269.3 | 5.1 |
| 150°-160° | 231.1 | 4.3 |
| 160°-170° | 155.1 | 2.9 |
| 170°-180° | 54.3 | 1.0 |
| 0°-90° | 3898.0 | 73.2 |
| 0°-180° | 5324.2 | 100.0 |



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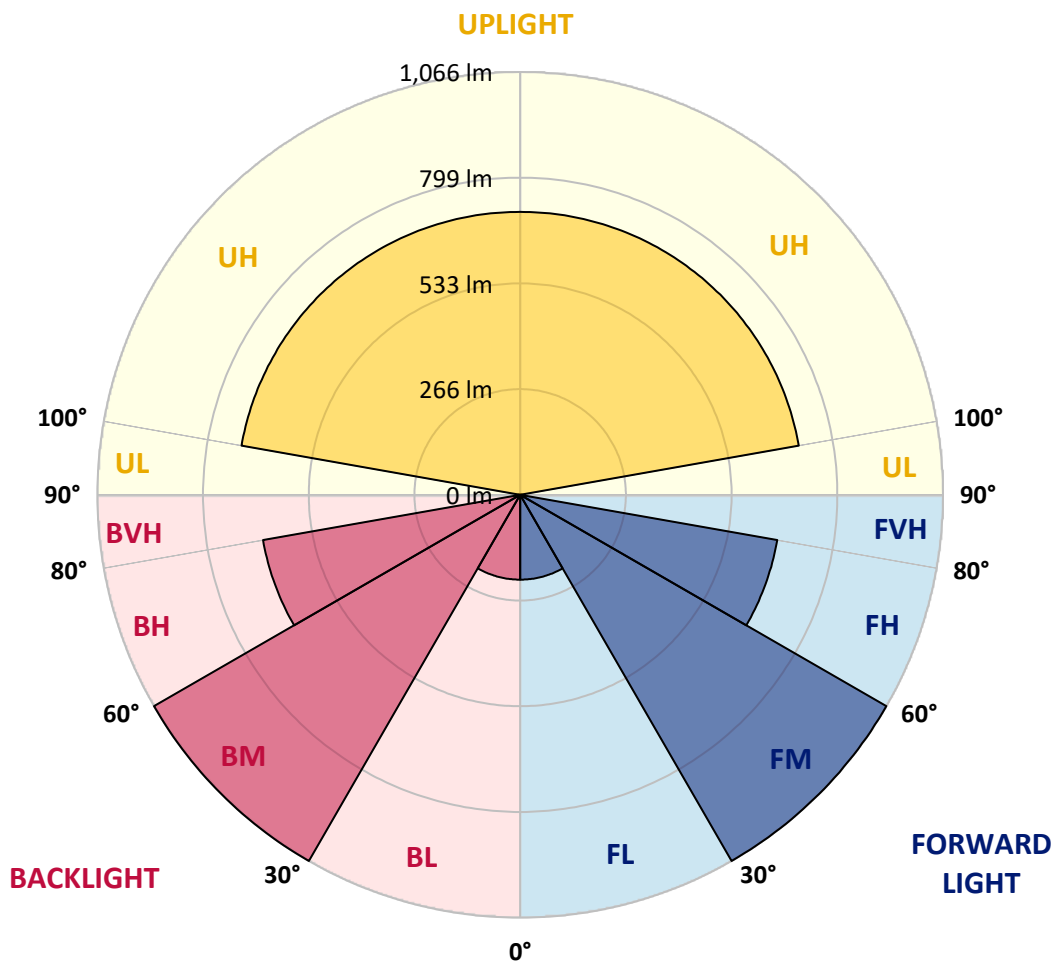
CATALOG NUMBER: ISC-AF-600-LED-E1-RW-7060-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|---------|---------|
| | | | B | U | G |
| FL (0°-30°) | 213.8 | 4.0 | | | |
| FM (30°-60°) | 1065.6 | 20.0 | | | |
| FH (60°-80°) | 658.0 | 12.4 | | | G0/660 |
| FVH (80°-90°) | 11.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 213.8 | 4.0 | B1/500 | | |
| BM (30°-60°) | 1065.6 | 20.0 | B2/2500 | | |
| BH (60°-80°) | 658.0 | 12.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 11.6 | 0.2 | | | G1/100 |
| UL (90°-100°) | 4.7 | 0.1 | | U1/10 | |
| UH (100°-180°) | 713.1 | 13.4 | | U4/1000 | |

BUG Rating: B2-U5-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 |
| 2.5° | 442.6 | 441.3 | 442.6 | 442.6 | 443.9 | 443.9 | 443.9 | 443.9 | 442.6 | 445.1 | 445.1 |
| 5° | 442.6 | 442.6 | 443.9 | 443.9 | 446.4 | 449.0 | 445.1 | 446.4 | 447.7 | 446.4 | 449.0 |
| 7.5° | 442.6 | 442.6 | 442.6 | 445.1 | 449.0 | 451.6 | 449.0 | 450.3 | 452.9 | 452.9 | 455.5 |
| 10° | 438.7 | 437.4 | 440.0 | 445.1 | 451.6 | 455.5 | 454.2 | 459.3 | 458.0 | 459.3 | 461.9 |
| 12.5° | 432.2 | 432.2 | 437.4 | 445.1 | 456.8 | 459.3 | 460.6 | 463.2 | 467.1 | 465.8 | 469.7 |
| 15° | 433.5 | 434.8 | 440.0 | 450.3 | 464.5 | 467.1 | 468.4 | 468.4 | 474.8 | 472.2 | 480.0 |
| 17.5° | 442.6 | 443.9 | 449.0 | 459.3 | 476.1 | 476.1 | 477.4 | 480.0 | 489.0 | 483.9 | 494.2 |
| 20° | 456.8 | 458.0 | 463.2 | 474.8 | 490.3 | 489.0 | 491.6 | 494.2 | 505.8 | 500.6 | 511.0 |
| 22.5° | 473.5 | 476.1 | 482.6 | 495.5 | 512.2 | 504.5 | 509.7 | 514.8 | 526.4 | 517.4 | 531.6 |
| 25° | 496.8 | 500.6 | 507.1 | 521.3 | 539.3 | 530.3 | 535.5 | 539.3 | 552.2 | 539.3 | 553.5 |
| 27.5° | 530.3 | 532.9 | 538.0 | 553.5 | 569.0 | 562.6 | 565.1 | 567.7 | 583.2 | 569.0 | 584.5 |
| 30° | 570.3 | 574.2 | 579.3 | 593.5 | 609.0 | 598.7 | 603.9 | 606.4 | 619.3 | 605.1 | 618.0 |
| 32.5° | 620.6 | 624.5 | 630.9 | 643.8 | 656.8 | 641.3 | 642.6 | 646.4 | 659.3 | 645.1 | 659.3 |
| 35° | 680.0 | 682.6 | 691.6 | 707.1 | 716.1 | 691.6 | 692.9 | 692.9 | 709.7 | 690.3 | 705.8 |
| 37.5° | 741.9 | 744.5 | 754.8 | 770.3 | 780.6 | 753.5 | 753.5 | 754.8 | 770.3 | 748.4 | 762.6 |
| 40° | 806.4 | 814.2 | 825.8 | 841.3 | 849.0 | 818.0 | 820.6 | 819.3 | 837.4 | 811.6 | 825.8 |
| 42.5° | 870.9 | 877.4 | 894.2 | 912.2 | 921.3 | 890.3 | 891.6 | 887.7 | 905.8 | 878.7 | 890.3 |
| 45° | 926.4 | 931.6 | 952.2 | 978.0 | 992.2 | 960.0 | 960.0 | 960.0 | 978.0 | 944.5 | 958.7 |
| 47.5° | 971.6 | 975.5 | 997.4 | 1034.8 | 1058.0 | 1025.8 | 1028.4 | 1023.2 | 1050.3 | 1009.0 | 1028.4 |
| 50° | 1003.8 | 1005.1 | 1033.5 | 1076.1 | 1116.1 | 1086.4 | 1090.3 | 1092.9 | 1118.7 | 1082.5 | 1099.3 |
| 52.5° | 1014.2 | 1016.7 | 1049.0 | 1100.6 | 1158.7 | 1139.3 | 1153.5 | 1158.7 | 1181.9 | 1143.2 | 1166.4 |
| 55° | 978.0 | 984.5 | 1033.5 | 1109.6 | 1188.3 | 1181.9 | 1198.7 | 1209.0 | 1238.7 | 1206.4 | 1230.9 |
| 57.5° | 856.7 | 864.5 | 932.9 | 1058.0 | 1194.8 | 1205.1 | 1228.3 | 1245.1 | 1287.7 | 1268.3 | 1295.4 |
| 60° | 683.8 | 690.3 | 760.0 | 910.9 | 1113.5 | 1176.7 | 1229.6 | 1277.4 | 1321.2 | 1325.1 | 1360.0 |
| 62.5° | 469.7 | 478.7 | 545.8 | 690.3 | 936.7 | 1020.6 | 1096.7 | 1175.4 | 1249.0 | 1338.0 | 1383.2 |
| 65° | 229.7 | 234.8 | 291.6 | 431.0 | 687.7 | 794.8 | 883.8 | 994.8 | 1063.2 | 1190.9 | 1264.5 |
| 67.5° | 126.4 | 126.4 | 135.5 | 179.3 | 367.7 | 473.5 | 569.0 | 708.4 | 778.0 | 935.5 | 1029.6 |
| 70° | 105.8 | 105.8 | 103.2 | 109.7 | 139.4 | 165.2 | 214.2 | 294.2 | 391.0 | 549.7 | 634.8 |
| 71° | 100.6 | 99.4 | 98.1 | 100.6 | 112.3 | 117.4 | 138.1 | 180.6 | 245.2 | 379.3 | 463.2 |
| 72.5° | 94.2 | 91.6 | 87.7 | 89.0 | 95.5 | 95.5 | 99.4 | 105.8 | 130.3 | 178.1 | 238.7 |
| 75° | 81.3 | 78.7 | 74.8 | 74.8 | 76.1 | 77.4 | 78.7 | 81.3 | 82.6 | 85.2 | 95.5 |
| 77.5° | 67.1 | 64.5 | 60.6 | 60.6 | 59.4 | 60.6 | 63.2 | 64.5 | 61.9 | 67.1 | 68.4 |
| 80° | 51.6 | 47.7 | 46.5 | 46.5 | 45.2 | 43.9 | 43.9 | 43.9 | 45.2 | 47.7 | 49.0 |
| 82.5° | 32.3 | 29.7 | 31.0 | 29.7 | 28.4 | 28.4 | 28.4 | 28.4 | 29.7 | 29.7 | 32.3 |
| 85° | 15.5 | 15.5 | 16.8 | 15.5 | 12.9 | 12.9 | 11.6 | 10.3 | 11.6 | 10.3 | 12.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 97.5° | 2.0 | 2.0 | 2.0 | 3.0 | 4.0 | 5.2 | 6.5 | 7.8 | 9.0 | 10.0 | 11.0 |
| 100° | 8.0 | 8.0 | 10.0 | 14.0 | 22.0 | 24.0 | 26.0 | 28.0 | 30.0 | 30.5 | 31.0 |
| 102.5° | 28.0 | 28.0 | 32.0 | 38.0 | 45.0 | 46.2 | 47.5 | 48.8 | 50.0 | 50.2 | 50.5 |
| 105° | 54.0 | 54.0 | 56.0 | 61.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 70.2 | 70.5 |
| 107.5° | 78.0 | 77.0 | 80.0 | 84.0 | 88.0 | 88.8 | 89.5 | 90.2 | 91.0 | 91.5 | 92.0 |



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CATALOG NUMBER: ISC-AF-600-LED-E1-RW-7060-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 101.0 | 102.0 | 103.0 | 106.0 | 110.0 | 110.5 | 111.0 | 111.5 | 112.0 | 112.5 | 113.0 |
| 112.5° | 124.0 | 124.0 | 126.0 | 129.0 | 132.0 | 132.5 | 133.0 | 133.5 | 134.0 | 134.5 | 135.0 |
| 115° | 146.0 | 147.0 | 149.0 | 151.0 | 154.0 | 154.5 | 155.0 | 155.5 | 156.0 | 156.5 | 157.0 |
| 117.5° | 169.0 | 170.0 | 172.0 | 174.0 | 177.0 | 177.5 | 178.0 | 178.5 | 179.0 | 179.2 | 179.5 |
| 120° | 193.0 | 195.0 | 196.0 | 198.0 | 201.0 | 201.2 | 201.5 | 201.8 | 202.0 | 202.5 | 203.0 |
| 122.5° | 219.0 | 220.0 | 221.0 | 223.0 | 226.0 | 226.2 | 226.5 | 226.8 | 227.0 | 227.2 | 227.5 |
| 125° | 244.0 | 246.0 | 247.0 | 248.0 | 251.0 | 251.2 | 251.5 | 251.8 | 252.0 | 252.2 | 252.5 |
| 127.5° | 267.0 | 269.0 | 270.0 | 272.0 | 274.0 | 274.5 | 275.0 | 275.5 | 276.0 | 276.5 | 277.0 |
| 130° | 290.0 | 292.0 | 293.0 | 294.0 | 298.0 | 298.2 | 298.5 | 298.8 | 299.0 | 299.5 | 300.0 |
| 132.5° | 313.0 | 314.0 | 317.0 | 318.0 | 321.0 | 321.2 | 321.5 | 321.8 | 322.0 | 322.8 | 323.5 |
| 135° | 336.0 | 337.0 | 339.0 | 341.0 | 345.0 | 345.0 | 345.0 | 345.0 | 345.0 | 345.8 | 346.5 |
| 137.5° | 359.0 | 360.0 | 363.0 | 364.0 | 367.0 | 367.0 | 367.0 | 367.0 | 367.0 | 367.5 | 368.0 |
| 140° | 382.0 | 383.0 | 385.0 | 386.0 | 388.0 | 388.2 | 388.5 | 388.8 | 389.0 | 389.2 | 389.5 |
| 142.5° | 404.0 | 406.0 | 408.0 | 407.0 | 410.0 | 410.0 | 410.0 | 410.0 | 410.0 | 410.5 | 411.0 |
| 145° | 425.0 | 426.0 | 428.0 | 428.0 | 431.0 | 431.2 | 431.5 | 431.8 | 432.0 | 432.5 | 433.0 |
| 147.5° | 444.0 | 444.0 | 447.0 | 448.0 | 452.0 | 452.2 | 452.5 | 452.8 | 453.0 | 453.2 | 453.5 |
| 150° | 461.0 | 462.0 | 464.0 | 465.0 | 469.0 | 469.2 | 469.5 | 469.8 | 470.0 | 470.2 | 470.5 |
| 152.5° | 479.0 | 480.0 | 483.0 | 482.0 | 485.0 | 485.2 | 485.5 | 485.8 | 486.0 | 486.2 | 486.5 |
| 155° | 499.0 | 500.0 | 502.0 | 501.0 | 503.0 | 503.0 | 503.0 | 503.0 | 503.0 | 503.2 | 503.5 |
| 157.5° | 513.0 | 515.0 | 517.0 | 516.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 |
| 160° | 525.0 | 527.0 | 529.0 | 529.0 | 532.0 | 532.0 | 532.0 | 532.0 | 532.0 | 532.0 | 532.0 |
| 162.5° | 535.0 | 536.0 | 539.0 | 538.0 | 541.0 | 541.0 | 541.0 | 541.0 | 541.0 | 541.2 | 541.5 |
| 165° | 546.0 | 547.0 | 549.0 | 548.0 | 552.0 | 552.0 | 552.0 | 552.0 | 552.0 | 552.2 | 552.5 |
| 167.5° | 555.0 | 556.0 | 559.0 | 558.0 | 561.0 | 560.8 | 560.5 | 560.2 | 560.0 | 560.0 | 560.0 |
| 170° | 562.0 | 563.0 | 566.0 | 565.0 | 567.0 | 566.8 | 566.5 | 566.2 | 566.0 | 565.8 | 565.5 |
| 172.5° | 565.0 | 566.0 | 569.0 | 567.0 | 569.0 | 568.8 | 568.5 | 568.2 | 568.0 | 568.2 | 568.5 |
| 175° | 567.0 | 569.0 | 570.0 | 569.0 | 572.0 | 572.0 | 572.0 | 572.0 | 572.0 | 572.2 | 572.5 |
| 177.5° | 572.0 | 573.0 | 575.0 | 574.0 | 578.0 | 577.8 | 577.5 | 577.2 | 577.0 | 577.0 | 577.0 |
| 180° | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 |



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CATALOG NUMBER: ISC-AF-600-LED-E1-RW-7060-ULG

CANDELA DISTRIBUTION (continued):

| | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 |
| 2.5° | 441.3 | 443.9 | 442.6 | 443.9 | 441.3 | 443.9 | 440.0 | 443.9 | 442.6 | 443.9 | 441.3 |
| 5° | 445.1 | 449.0 | 445.1 | 450.3 | 445.1 | 450.3 | 445.1 | 450.3 | 446.4 | 450.3 | 445.1 |
| 7.5° | 449.0 | 456.8 | 451.6 | 458.0 | 451.6 | 459.3 | 451.6 | 459.3 | 454.2 | 460.6 | 451.6 |
| 10° | 456.8 | 465.8 | 458.0 | 465.8 | 458.0 | 467.1 | 458.0 | 468.4 | 460.6 | 471.0 | 459.3 |
| 12.5° | 463.2 | 473.5 | 465.8 | 476.1 | 464.5 | 478.7 | 467.1 | 482.6 | 469.7 | 485.1 | 469.7 |
| 15° | 472.2 | 485.1 | 477.4 | 489.0 | 477.4 | 492.9 | 478.7 | 496.8 | 482.6 | 499.3 | 482.6 |
| 17.5° | 485.1 | 499.3 | 489.0 | 503.2 | 490.3 | 507.1 | 491.6 | 511.0 | 496.8 | 513.5 | 496.8 |
| 20° | 503.2 | 514.8 | 504.5 | 520.0 | 505.8 | 521.3 | 508.4 | 523.9 | 512.2 | 527.7 | 512.2 |
| 22.5° | 523.9 | 534.2 | 526.4 | 535.5 | 522.6 | 535.5 | 522.6 | 535.5 | 526.4 | 539.3 | 526.4 |
| 25° | 547.1 | 554.8 | 545.8 | 554.8 | 543.2 | 553.5 | 541.9 | 552.2 | 543.2 | 554.8 | 545.8 |
| 27.5° | 578.0 | 581.9 | 571.6 | 579.3 | 565.1 | 575.5 | 562.6 | 572.9 | 563.9 | 574.2 | 567.7 |
| 30° | 611.6 | 615.5 | 605.1 | 610.3 | 594.8 | 601.3 | 587.1 | 596.1 | 588.4 | 596.1 | 592.2 |
| 32.5° | 649.0 | 654.2 | 642.6 | 645.1 | 632.2 | 633.5 | 621.9 | 625.8 | 619.3 | 621.9 | 620.6 |
| 35° | 691.6 | 698.0 | 685.1 | 689.0 | 674.8 | 674.8 | 664.5 | 663.2 | 660.6 | 658.0 | 658.0 |
| 37.5° | 745.8 | 748.4 | 738.0 | 738.0 | 721.3 | 721.3 | 708.4 | 708.4 | 703.2 | 698.0 | 695.5 |
| 40° | 805.1 | 806.4 | 789.7 | 788.4 | 771.6 | 771.6 | 757.4 | 753.5 | 744.5 | 738.0 | 734.2 |
| 42.5° | 868.4 | 867.1 | 842.6 | 845.1 | 820.6 | 821.9 | 803.8 | 800.0 | 790.9 | 783.2 | 775.5 |
| 45° | 932.9 | 927.7 | 903.2 | 901.9 | 873.5 | 874.8 | 852.9 | 850.3 | 837.4 | 829.6 | 820.6 |
| 47.5° | 998.7 | 996.1 | 969.0 | 962.5 | 932.9 | 931.6 | 903.2 | 903.2 | 890.3 | 882.6 | 873.5 |
| 50° | 1067.1 | 1065.8 | 1034.8 | 1030.9 | 1000.0 | 994.8 | 961.3 | 961.3 | 945.8 | 943.2 | 930.3 |
| 52.5° | 1141.9 | 1136.7 | 1103.2 | 1101.9 | 1072.2 | 1068.4 | 1032.2 | 1029.6 | 1006.4 | 1005.1 | 990.9 |
| 55° | 1215.4 | 1206.4 | 1184.5 | 1174.2 | 1144.5 | 1143.2 | 1110.9 | 1104.5 | 1074.8 | 1074.8 | 1056.7 |
| 57.5° | 1282.5 | 1274.8 | 1256.7 | 1247.7 | 1219.3 | 1215.4 | 1180.6 | 1180.6 | 1154.8 | 1153.5 | 1134.2 |
| 60° | 1352.2 | 1354.8 | 1335.4 | 1331.6 | 1304.5 | 1303.2 | 1268.3 | 1268.3 | 1242.5 | 1241.2 | 1219.3 |
| 62.5° | 1411.6 | 1437.4 | 1429.6 | 1432.2 | 1409.0 | 1405.1 | 1370.3 | 1367.7 | 1338.0 | 1334.1 | 1316.1 |
| 65° | 1353.5 | 1443.8 | 1501.9 | 1540.6 | 1538.0 | 1536.7 | 1503.2 | 1498.0 | 1460.6 | 1450.3 | 1420.6 |
| 67.5° | 1136.7 | 1254.2 | 1360.0 | 1476.1 | 1561.2 | 1625.8 | 1645.1 | 1637.4 | 1605.1 | 1575.4 | 1539.3 |
| 70° | 761.3 | 896.7 | 1030.9 | 1175.4 | 1321.2 | 1463.2 | 1609.0 | 1672.2 | 1739.3 | 1716.1 | 1709.6 |
| 71° | 579.3 | 718.7 | 852.9 | 1005.1 | 1160.0 | 1317.4 | 1496.7 | 1571.6 | 1707.0 | 1705.7 | 1740.6 |
| 72.5° | 326.4 | 450.3 | 593.5 | 726.4 | 872.2 | 1034.8 | 1219.3 | 1301.9 | 1496.7 | 1535.4 | 1636.1 |
| 75° | 104.5 | 143.2 | 189.7 | 299.3 | 389.7 | 538.0 | 674.8 | 757.4 | 886.4 | 950.9 | 1091.6 |
| 77.5° | 69.7 | 77.4 | 80.0 | 92.9 | 104.5 | 148.4 | 201.3 | 246.4 | 271.0 | 283.9 | 298.1 |
| 80° | 50.3 | 54.2 | 56.8 | 63.2 | 64.5 | 72.3 | 72.3 | 80.0 | 78.7 | 83.9 | 80.0 |
| 82.5° | 32.3 | 36.1 | 37.4 | 40.0 | 41.3 | 46.5 | 49.0 | 54.2 | 54.2 | 56.8 | 55.5 |
| 85° | 15.5 | 18.1 | 18.1 | 20.6 | 20.6 | 24.5 | 24.5 | 28.4 | 28.4 | 32.3 | 31.0 |
| 87.5° | 1.3 | 1.3 | 1.3 | 2.6 | 2.6 | 2.6 | 3.9 | 5.2 | 5.2 | 5.2 | 5.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 97.5° | 12.0 | 13.0 | 11.5 | 10.0 | 8.5 | 7.0 | 6.5 | 6.0 | 5.5 | 5.0 | 4.8 |
| 100° | 31.5 | 32.0 | 31.5 | 31.0 | 30.5 | 30.0 | 29.2 | 28.5 | 27.8 | 27.0 | 26.8 |
| 102.5° | 50.8 | 51.0 | 50.8 | 50.5 | 50.2 | 50.0 | 49.5 | 49.0 | 48.5 | 48.0 | 48.2 |
| 105° | 70.8 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 70.5 | 70.0 | 69.5 | 69.0 | 69.5 |
| 107.5° | 92.5 | 93.0 | 92.8 | 92.5 | 92.2 | 92.0 | 91.8 | 91.5 | 91.2 | 91.0 | 91.2 |



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CATALOG NUMBER: ISC-AF-600-LED-E1-RW-7060-ULG

CANDELA DISTRIBUTION (continued):

| | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 113.5 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 113.8 | 113.5 | 113.2 | 113.0 | 113.2 |
| 112.5° | 135.5 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 135.8 | 135.5 | 135.2 | 135.0 | 135.5 |
| 115° | 157.5 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.5 |
| 117.5° | 179.8 | 180.0 | 180.2 | 180.5 | 180.8 | 181.0 | 180.8 | 180.5 | 180.2 | 180.0 | 180.5 |
| 120° | 203.5 | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 | 204.5 |
| 122.5° | 227.8 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.2 | 228.5 | 228.8 | 229.0 | 230.0 |
| 125° | 252.8 | 253.0 | 253.2 | 253.5 | 253.8 | 254.0 | 254.0 | 254.0 | 254.0 | 254.0 | 254.8 |
| 127.5° | 277.5 | 278.0 | 277.8 | 277.5 | 277.2 | 277.0 | 277.2 | 277.5 | 277.8 | 278.0 | 278.8 |
| 130° | 300.5 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.2 | 301.5 | 301.8 | 302.0 | 302.8 |
| 132.5° | 324.2 | 325.0 | 325.0 | 325.0 | 325.0 | 325.0 | 325.2 | 325.5 | 325.8 | 326.0 | 326.8 |
| 135° | 347.2 | 348.0 | 348.0 | 348.0 | 348.0 | 348.0 | 348.2 | 348.5 | 348.8 | 349.0 | 349.5 |
| 137.5° | 368.5 | 369.0 | 369.0 | 369.0 | 369.0 | 369.0 | 369.2 | 369.5 | 369.8 | 370.0 | 371.0 |
| 140° | 389.8 | 390.0 | 390.0 | 390.0 | 390.0 | 390.0 | 390.5 | 391.0 | 391.5 | 392.0 | 393.0 |
| 142.5° | 411.5 | 412.0 | 412.0 | 412.0 | 412.0 | 412.0 | 412.2 | 412.5 | 412.8 | 413.0 | 413.8 |
| 145° | 433.5 | 434.0 | 433.8 | 433.5 | 433.2 | 433.0 | 433.2 | 433.5 | 433.8 | 434.0 | 434.8 |
| 147.5° | 453.8 | 454.0 | 453.5 | 453.0 | 452.5 | 452.0 | 452.2 | 452.5 | 452.8 | 453.0 | 453.8 |
| 150° | 470.8 | 471.0 | 470.5 | 470.0 | 469.5 | 469.0 | 469.0 | 469.0 | 469.0 | 469.0 | 470.0 |
| 152.5° | 486.8 | 487.0 | 486.8 | 486.5 | 486.2 | 486.0 | 486.0 | 486.0 | 486.0 | 486.0 | 486.8 |
| 155° | 503.8 | 504.0 | 503.8 | 503.5 | 503.2 | 503.0 | 503.2 | 503.5 | 503.8 | 504.0 | 504.8 |
| 157.5° | 519.0 | 519.0 | 518.5 | 518.0 | 517.5 | 517.0 | 517.2 | 517.5 | 517.8 | 518.0 | 519.2 |
| 160° | 532.0 | 532.0 | 531.5 | 531.0 | 530.5 | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 | 530.8 |
| 162.5° | 541.8 | 542.0 | 541.5 | 541.0 | 540.5 | 540.0 | 539.5 | 539.0 | 538.5 | 538.0 | 538.5 |
| 165° | 552.8 | 553.0 | 552.2 | 551.5 | 550.8 | 550.0 | 549.5 | 549.0 | 548.5 | 548.0 | 548.5 |
| 167.5° | 560.0 | 560.0 | 559.5 | 559.0 | 558.5 | 558.0 | 558.2 | 558.5 | 558.8 | 559.0 | 560.0 |
| 170° | 565.2 | 565.0 | 564.8 | 564.5 | 564.2 | 564.0 | 564.5 | 565.0 | 565.5 | 566.0 | 567.2 |
| 172.5° | 568.8 | 569.0 | 568.5 | 568.0 | 567.5 | 567.0 | 567.2 | 567.5 | 567.8 | 568.0 | 568.8 |
| 175° | 572.8 | 573.0 | 572.2 | 571.5 | 570.8 | 570.0 | 569.5 | 569.0 | 568.5 | 568.0 | 568.8 |
| 177.5° | 577.0 | 577.0 | 576.2 | 575.5 | 574.8 | 574.0 | 574.0 | 574.0 | 574.0 | 574.0 | 574.8 |
| 180° | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 |

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CATALOG NUMBER: ISC-AF-600-LED-E1-RW-7060-ULG

CANDELA DISTRIBUTION (continued):

| | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 |
| 2.5° | 445.1 | 443.9 | 445.1 | 442.6 | 445.1 |
| 5° | 451.6 | 446.4 | 452.9 | 446.4 | 452.9 |
| 7.5° | 461.9 | 455.5 | 463.2 | 452.9 | 461.9 |
| 10° | 471.0 | 461.9 | 472.2 | 461.9 | 471.0 |
| 12.5° | 486.4 | 472.2 | 489.0 | 472.2 | 489.0 |
| 15° | 501.9 | 485.1 | 505.8 | 487.7 | 504.5 |
| 17.5° | 516.1 | 500.6 | 520.0 | 501.9 | 518.7 |
| 20° | 529.0 | 514.8 | 531.6 | 513.5 | 531.6 |
| 22.5° | 541.9 | 532.9 | 545.8 | 532.9 | 545.8 |
| 25° | 558.7 | 552.2 | 561.3 | 552.2 | 561.3 |
| 27.5° | 578.0 | 575.5 | 580.6 | 574.2 | 581.9 |
| 30° | 600.0 | 601.3 | 602.6 | 601.3 | 603.9 |
| 32.5° | 627.1 | 633.5 | 630.9 | 630.9 | 630.9 |
| 35° | 664.5 | 676.1 | 668.4 | 670.9 | 669.7 |
| 37.5° | 699.3 | 716.1 | 705.8 | 709.7 | 707.1 |
| 40° | 738.0 | 749.7 | 747.1 | 747.1 | 744.5 |
| 42.5° | 780.6 | 794.8 | 790.9 | 792.2 | 789.7 |
| 45° | 827.1 | 840.0 | 834.8 | 833.5 | 834.8 |
| 47.5° | 880.0 | 894.2 | 887.7 | 886.4 | 887.7 |
| 50° | 935.5 | 952.2 | 947.1 | 944.5 | 947.1 |
| 52.5° | 996.1 | 1016.7 | 1014.2 | 1011.6 | 1015.5 |
| 55° | 1067.1 | 1086.4 | 1083.8 | 1086.4 | 1087.7 |
| 57.5° | 1138.0 | 1160.0 | 1154.8 | 1161.3 | 1163.8 |
| 60° | 1227.1 | 1240.0 | 1241.2 | 1242.5 | 1243.8 |
| 62.5° | 1317.4 | 1322.5 | 1326.4 | 1330.3 | 1331.6 |
| 65° | 1421.9 | 1423.2 | 1425.8 | 1421.9 | 1425.8 |
| 67.5° | 1522.5 | 1513.5 | 1512.2 | 1516.1 | 1518.7 |
| 70° | 1678.7 | 1678.7 | 1665.8 | 1683.8 | 1668.3 |
| 71° | 1699.3 | 1723.8 | 1695.4 | 1735.4 | 1692.8 |
| 72.5° | 1598.7 | 1643.8 | 1611.6 | 1647.7 | 1605.1 |
| 75° | 1112.2 | 1216.7 | 1215.4 | 1267.1 | 1225.8 |
| 77.5° | 308.4 | 289.0 | 308.4 | 265.8 | 254.2 |
| 80° | 83.9 | 76.1 | 82.6 | 69.7 | 78.7 |
| 82.5° | 55.5 | 47.7 | 46.5 | 37.4 | 40.0 |
| 85° | 32.3 | 24.5 | 24.5 | 19.4 | 20.6 |
| 87.5° | 5.2 | 1.3 | 5.2 | 2.6 | 3.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 97.5° | 4.5 | 4.2 | 4.0 | 4.0 | 4.0 |
| 100° | 26.5 | 26.2 | 26.0 | 25.5 | 25.0 |
| 102.5° | 48.5 | 48.8 | 49.0 | 48.5 | 48.0 |
| 105° | 70.0 | 70.5 | 71.0 | 70.0 | 69.0 |
| 107.5° | 91.5 | 91.8 | 92.0 | 91.5 | 91.0 |



REPORT NUMBER: P228772

CATALOG NUMBER: ISC-AF-600-LED-E1-RW-7060-ULG

CANDELA DISTRIBUTION (continued):

| | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 110° | 113.5 | 113.8 | 114.0 | 113.5 | 113.0 |
| 112.5° | 136.0 | 136.5 | 137.0 | 136.0 | 135.0 |
| 115° | 159.0 | 159.5 | 160.0 | 159.5 | 159.0 |
| 117.5° | 181.0 | 181.5 | 182.0 | 181.0 | 180.0 |
| 120° | 205.0 | 205.5 | 206.0 | 205.0 | 204.0 |
| 122.5° | 231.0 | 232.0 | 233.0 | 232.5 | 232.0 |
| 125° | 255.5 | 256.2 | 257.0 | 256.5 | 256.0 |
| 127.5° | 279.5 | 280.2 | 281.0 | 279.5 | 278.0 |
| 130° | 303.5 | 304.2 | 305.0 | 304.0 | 303.0 |
| 132.5° | 327.5 | 328.2 | 329.0 | 328.0 | 327.0 |
| 135° | 350.0 | 350.5 | 351.0 | 350.5 | 350.0 |
| 137.5° | 372.0 | 373.0 | 374.0 | 373.0 | 372.0 |
| 140° | 394.0 | 395.0 | 396.0 | 395.0 | 394.0 |
| 142.5° | 414.5 | 415.2 | 416.0 | 415.5 | 415.0 |
| 145° | 435.5 | 436.2 | 437.0 | 436.0 | 435.0 |
| 147.5° | 454.5 | 455.2 | 456.0 | 454.5 | 453.0 |
| 150° | 471.0 | 472.0 | 473.0 | 471.5 | 470.0 |
| 152.5° | 487.5 | 488.2 | 489.0 | 487.5 | 486.0 |
| 155° | 505.5 | 506.2 | 507.0 | 506.0 | 505.0 |
| 157.5° | 520.5 | 521.8 | 523.0 | 521.5 | 520.0 |
| 160° | 531.5 | 532.2 | 533.0 | 532.0 | 531.0 |
| 162.5° | 539.0 | 539.5 | 540.0 | 538.5 | 537.0 |
| 165° | 549.0 | 549.5 | 550.0 | 549.0 | 548.0 |
| 167.5° | 561.0 | 562.0 | 563.0 | 562.0 | 561.0 |
| 170° | 568.5 | 569.8 | 571.0 | 570.0 | 569.0 |
| 172.5° | 569.5 | 570.2 | 571.0 | 569.5 | 568.0 |
| 175° | 569.5 | 570.2 | 571.0 | 569.5 | 568.0 |
| 177.5° | 575.5 | 576.2 | 577.0 | 575.5 | 574.0 |
| 180° | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 |

(END OF REPORT)