

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: P271489

Luminaire Tested: **ISC-AF-1200-LED-E1-T4FT-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29760)-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-1200-LED-E1-T4FT-7027-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW, WITH UPLIGHT GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7055.1 lumens
Efficiency: N/A
Efficacy: 85.3 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): 82.7
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

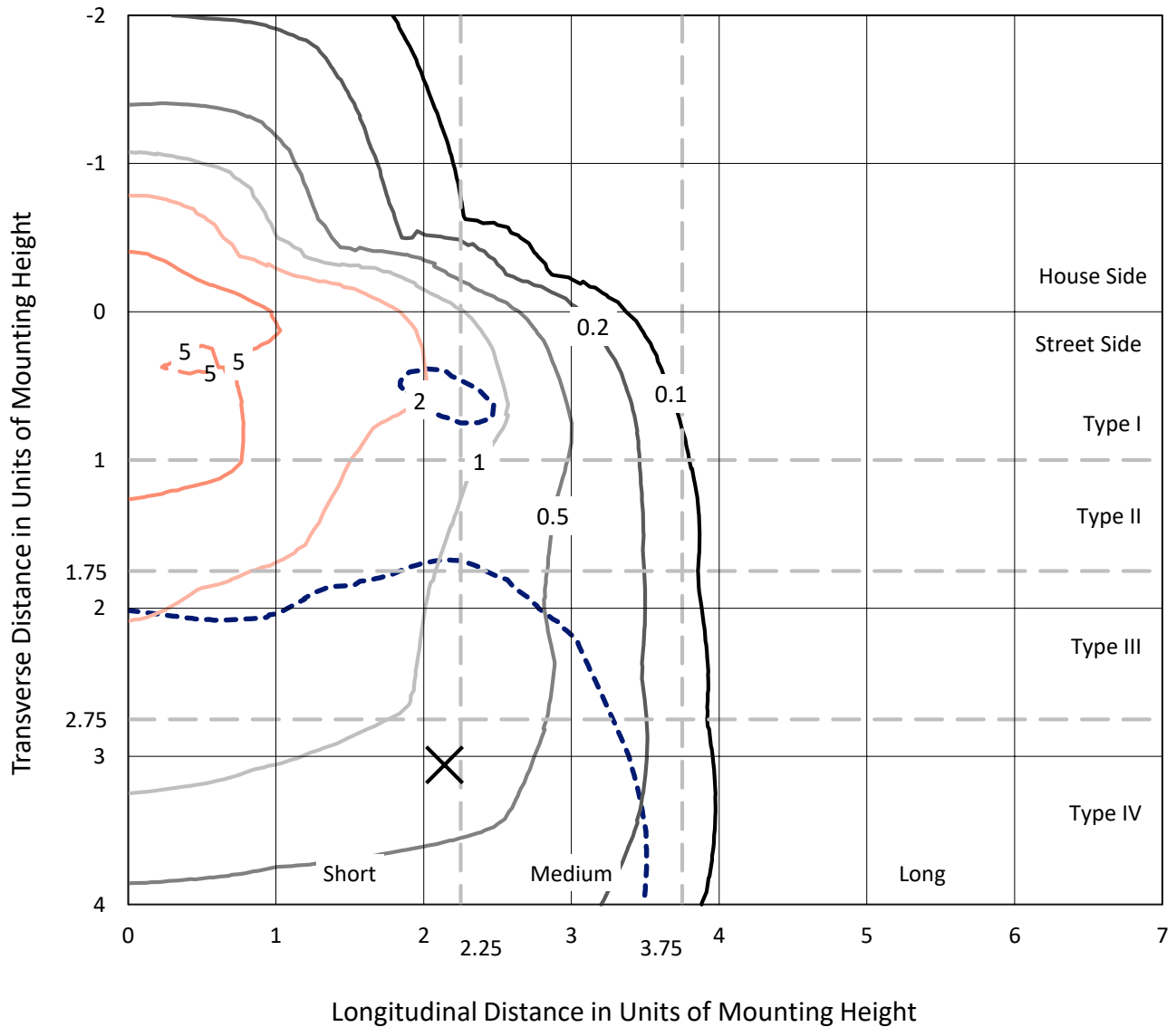


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

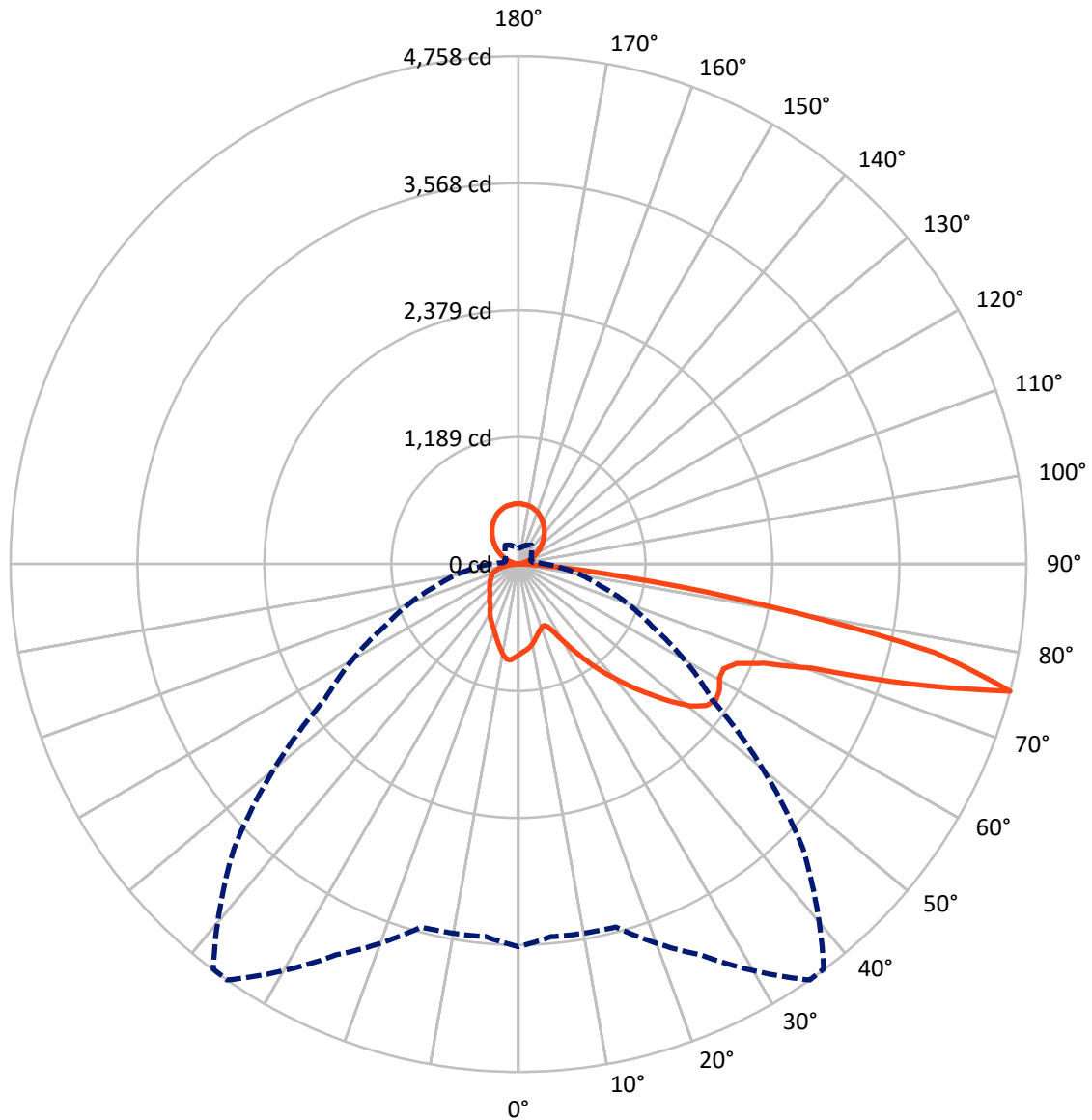


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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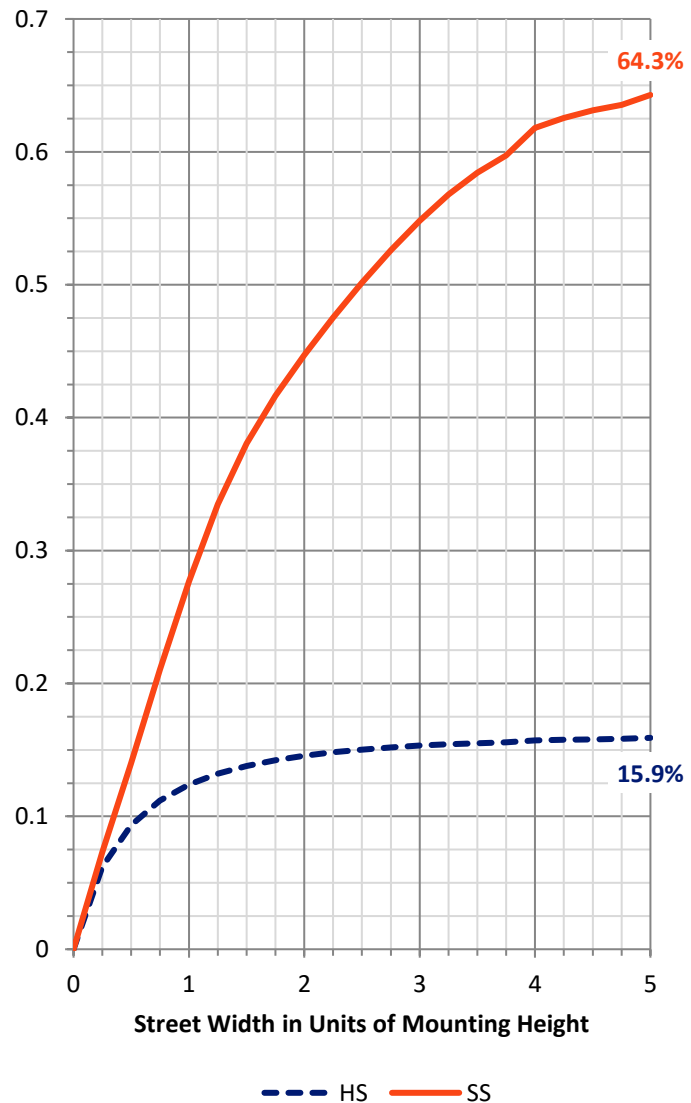
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1135.1 | 699.9 | 1834.9 |
| | % Fixture | 16.1 | 9.9 | 26.0 |
| Street Side | Lumens | 4520.2 | 699.9 | 5220.1 |
| | % Fixture | 64.1 | 9.9 | 74.0 |
| Total | Lumens | 5655.3 | 1399.8 | 7055.1 |
| | % Fixture | 80.2 | 19.8 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.7 | 1.1 |
| 10°-20° | 210.5 | 3.0 |
| 20°-30° | 333.0 | 4.7 |
| 30°-40° | 537.4 | 7.6 |
| 40°-50° | 795.1 | 11.3 |
| 50°-60° | 1022.3 | 14.5 |
| 60°-70° | 1265.7 | 17.9 |
| 70°-80° | 1275.5 | 18.1 |
| 80°-90° | 136.2 | 1.9 |
| 90°-100° | 4.7 | 0.1 |
| 100°-110° | 67.7 | 1.0 |
| 110°-120° | 150.2 | 2.1 |
| 120°-130° | 219.7 | 3.1 |
| 130°-140° | 260.7 | 3.7 |
| 140°-150° | 264.3 | 3.7 |
| 150°-160° | 226.8 | 3.2 |
| 160°-170° | 152.2 | 2.2 |
| 170°-180° | 53.3 | 0.8 |
| 0°-90° | 5655.3 | 80.2 |
| 0°-180° | 7055.1 | 100.0 |



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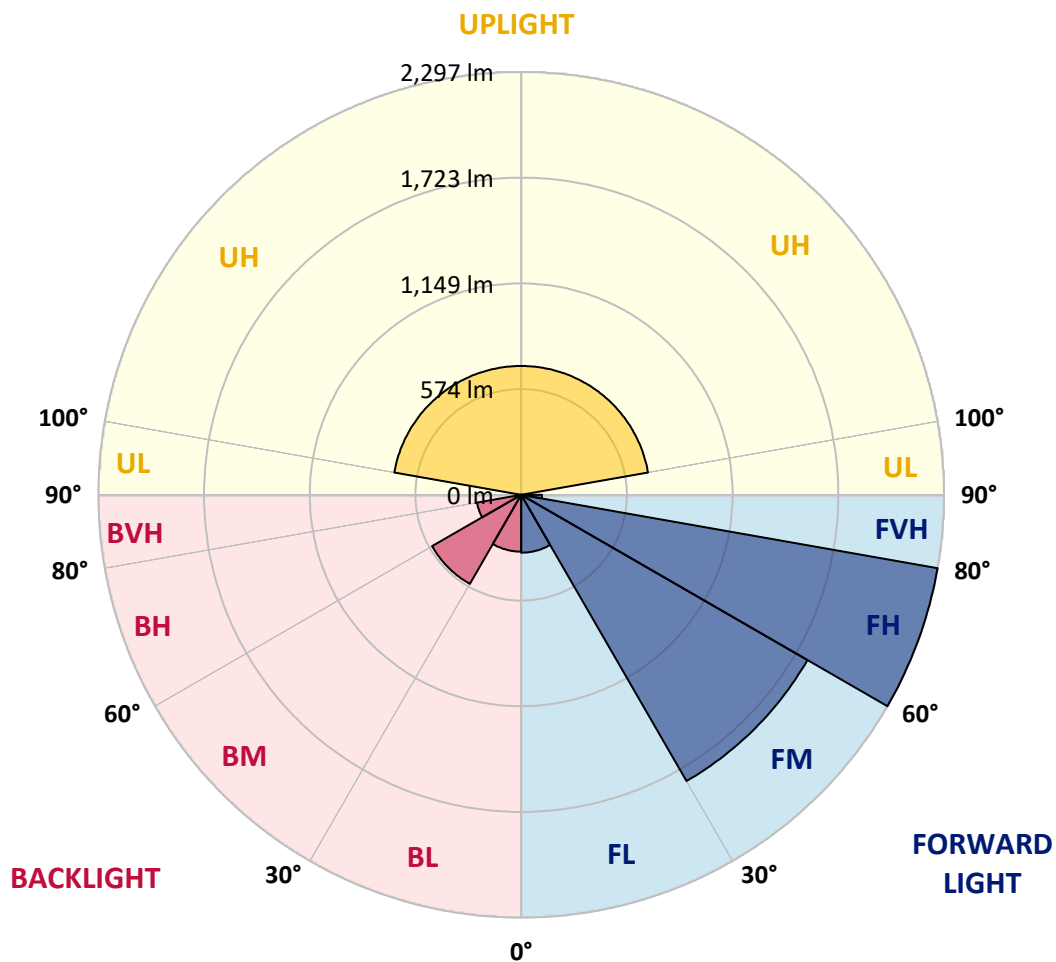
CATALOG NUMBER: ISC-AF-1200-LED-E1-T4FT-7027-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|---------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 314.5 | 4.5 | | | |
| FM | (30°-60°) | 1795.8 | 25.5 | | | |
| FH | (60°-80°) | 2297.4 | 32.6 | | | G2/5000 |
| FVH | (80°-90°) | 112.6 | 1.6 | | | G2/225 |
| BL | (0°-30°) | 308.7 | 4.4 | B1/500 | | |
| BM | (30°-60°) | 558.9 | 7.9 | B1/1000 | | |
| BH | (60°-80°) | 243.8 | 3.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 23.6 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 4.7 | 0.1 | | U1/10 | |
| UH | (100°-180°) | 699.9 | 9.9 | | U4/1000 | |

BUG Rating: B1-U5-G2

Type IV Short





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CATALOG NUMBER: ISC-AF-1200-LED-E1-T4FT-7027-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37° | 45° | 55° | 65° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 849.5 | 849.5 | 849.5 | 849.5 | 849.5 | 849.5 | 849.5 | 849.5 | 849.5 | 849.5 | 849.5 |
| 2.5° | 825.0 | 823.2 | 821.2 | 821.2 | 825.0 | 825.0 | 826.9 | 828.8 | 830.8 | 836.3 | 843.9 |
| 5° | 802.4 | 800.5 | 798.6 | 800.5 | 806.2 | 806.2 | 811.8 | 815.6 | 819.3 | 828.8 | 838.3 |
| 7.5° | 772.1 | 772.1 | 770.3 | 777.8 | 783.5 | 781.6 | 789.1 | 792.9 | 802.4 | 811.8 | 826.9 |
| 10° | 732.5 | 732.5 | 732.5 | 742.0 | 751.4 | 751.4 | 757.0 | 766.5 | 774.1 | 787.3 | 806.2 |
| 12.5° | 698.5 | 696.6 | 696.6 | 704.2 | 715.5 | 717.4 | 726.9 | 740.0 | 749.5 | 766.5 | 787.3 |
| 15° | 687.2 | 683.4 | 674.0 | 674.0 | 679.7 | 679.7 | 694.7 | 713.6 | 728.7 | 745.8 | 770.3 |
| 17.5° | 689.1 | 683.4 | 658.9 | 651.3 | 651.3 | 653.2 | 668.2 | 689.1 | 708.0 | 728.7 | 760.9 |
| 20° | 706.1 | 696.6 | 651.3 | 634.3 | 630.6 | 632.5 | 645.7 | 666.5 | 689.1 | 717.4 | 753.3 |
| 22.5° | 779.7 | 764.5 | 679.7 | 641.9 | 625.0 | 625.0 | 632.5 | 655.1 | 683.4 | 721.2 | 766.5 |
| 25° | 949.6 | 925.1 | 774.1 | 706.1 | 655.1 | 649.5 | 636.2 | 658.9 | 692.9 | 738.1 | 804.3 |
| 27.5° | 1123.3 | 1098.8 | 891.1 | 817.5 | 738.1 | 721.2 | 672.1 | 677.8 | 715.5 | 776.0 | 860.8 |
| 30° | 1268.7 | 1247.9 | 1038.4 | 953.4 | 847.7 | 828.8 | 753.3 | 717.4 | 755.1 | 828.8 | 945.8 |
| 32.5° | 1280.1 | 1270.6 | 1196.9 | 1110.0 | 981.7 | 955.3 | 855.3 | 798.6 | 817.5 | 900.6 | 1038.4 |
| 35° | 1385.7 | 1378.2 | 1338.6 | 1255.5 | 1127.1 | 1096.9 | 991.2 | 904.3 | 898.7 | 979.8 | 1144.1 |
| 37.5° | 1489.6 | 1480.1 | 1453.6 | 1397.0 | 1278.1 | 1253.6 | 1170.5 | 1030.9 | 991.2 | 1072.4 | 1247.9 |
| 40° | 1587.8 | 1574.5 | 1540.5 | 1508.4 | 1421.6 | 1421.6 | 1332.8 | 1151.6 | 1079.9 | 1153.5 | 1334.8 |
| 42.5° | 1769.0 | 1727.4 | 1636.8 | 1612.3 | 1587.8 | 1587.8 | 1457.5 | 1234.7 | 1151.6 | 1242.3 | 1417.9 |
| 45° | 1942.7 | 1903.0 | 1780.4 | 1731.2 | 1744.5 | 1737.0 | 1557.5 | 1281.9 | 1215.9 | 1325.3 | 1497.1 |
| 47.5° | 2080.6 | 2044.6 | 1920.0 | 1886.0 | 1923.8 | 1893.5 | 1640.7 | 1319.7 | 1297.1 | 1414.0 | 1563.2 |
| 50° | 2203.3 | 2118.2 | 1997.4 | 2042.7 | 2090.0 | 2039.0 | 1714.2 | 1376.3 | 1378.2 | 1508.4 | 1659.5 |
| 52.5° | 2035.2 | 2025.8 | 2052.2 | 2157.9 | 2203.3 | 2146.6 | 1780.4 | 1448.1 | 1465.0 | 1629.3 | 1769.0 |
| 55° | 1833.2 | 1831.3 | 1986.2 | 2191.9 | 2246.6 | 2193.8 | 1823.8 | 1534.8 | 1555.7 | 1778.5 | 1906.8 |
| 57.5° | 1793.6 | 1774.6 | 1880.4 | 2120.1 | 2220.3 | 2182.4 | 1846.4 | 1616.1 | 1642.6 | 1967.2 | 2042.7 |
| 60° | 1921.9 | 1886.0 | 1869.0 | 2042.7 | 2163.6 | 2144.7 | 1874.8 | 1712.3 | 1748.2 | 2182.4 | 2169.2 |
| 62.5° | 2201.4 | 2152.2 | 2031.3 | 2048.5 | 2157.9 | 2142.7 | 1942.7 | 1825.6 | 1867.1 | 2397.7 | 2241.0 |
| 65° | 2571.4 | 2535.5 | 2342.9 | 2205.1 | 2246.6 | 2225.9 | 2065.5 | 1969.2 | 1991.7 | 2552.4 | 2159.7 |
| 67.5° | 2977.3 | 2928.1 | 2718.6 | 2529.9 | 2477.0 | 2437.3 | 2259.9 | 2139.0 | 2057.8 | 2529.9 | 1942.7 |
| 70° | 3436.1 | 3383.2 | 3201.9 | 3007.4 | 2916.9 | 2873.4 | 2599.7 | 2286.3 | 2033.3 | 2280.5 | 1533.0 |
| 72.5° | 4000.5 | 3928.7 | 3828.8 | 3849.5 | 3834.3 | 3713.5 | 3141.6 | 2335.3 | 1853.9 | 1697.3 | 915.6 |
| 75° | 3585.1 | 3504.0 | 3521.0 | 4040.1 | 4757.5 | 4751.9 | 3768.3 | 2214.5 | 1382.0 | 800.5 | 396.4 |
| 77.5° | 1285.7 | 1421.6 | 2097.5 | 3026.4 | 3989.2 | 3983.5 | 2916.9 | 1385.7 | 592.8 | 341.7 | 239.8 |
| 80° | 322.9 | 328.5 | 521.1 | 1242.3 | 2329.8 | 2310.8 | 1653.8 | 522.9 | 247.3 | 207.7 | 164.2 |
| 82.5° | 103.8 | 111.4 | 190.7 | 428.5 | 996.8 | 974.2 | 513.5 | 171.8 | 154.8 | 134.0 | 100.0 |
| 85° | 34.0 | 34.0 | 67.9 | 147.2 | 328.5 | 315.2 | 103.8 | 62.3 | 85.0 | 69.9 | 45.4 |
| 87.5° | 0.0 | 0.0 | 1.9 | 3.8 | 7.5 | 3.8 | 0.0 | 3.8 | 11.3 | 13.3 | 9.4 |
| 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 | 4.9 | 8.8 | 12.8 | 6.8 | 4.9 | 4.0 |
| 100° | 7.8 | 7.8 | 9.8 | 13.7 | 21.6 | 23.2 | 29.5 | 31.4 | 29.5 | 26.5 | 25.5 |
| 102.5° | 27.5 | 27.5 | 31.4 | 37.3 | 44.2 | 45.2 | 49.0 | 50.0 | 49.0 | 47.1 | 48.1 |
| 105° | 53.0 | 53.0 | 55.0 | 59.8 | 64.8 | 65.6 | 68.7 | 69.7 | 69.7 | 67.7 | 69.7 |
| 107.5° | 76.5 | 75.5 | 78.5 | 82.5 | 86.3 | 87.0 | 89.3 | 91.3 | 90.3 | 89.3 | 90.3 |
| 110° | 99.2 | 100.1 | 101.1 | 104.0 | 108.0 | 108.3 | 110.0 | 111.9 | 111.9 | 110.9 | 111.9 |



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CATALOG NUMBER: ISC-AF-1200-LED-E1-T4FT-7027-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 37° | 45° | 55° | 65° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 121.7 | 121.7 | 123.7 | 126.6 | 129.5 | 130.0 | 131.5 | 133.5 | 133.5 | 132.5 | 134.5 |
| 115° | 143.3 | 144.3 | 146.2 | 148.2 | 151.2 | 151.5 | 153.1 | 155.0 | 155.0 | 155.0 | 157.0 |
| 117.5° | 165.8 | 166.8 | 168.8 | 170.8 | 173.7 | 174.1 | 175.7 | 176.7 | 177.7 | 176.7 | 178.7 |
| 120° | 189.5 | 191.4 | 192.3 | 194.3 | 197.3 | 197.4 | 198.3 | 200.2 | 200.2 | 200.2 | 202.2 |
| 122.5° | 215.0 | 216.0 | 216.9 | 218.8 | 221.8 | 222.0 | 222.8 | 223.8 | 223.8 | 224.8 | 228.7 |
| 125° | 239.5 | 241.5 | 242.5 | 243.4 | 246.3 | 246.6 | 247.3 | 248.3 | 249.3 | 249.3 | 252.2 |
| 127.5° | 262.0 | 264.0 | 265.0 | 267.0 | 269.0 | 269.3 | 270.9 | 272.8 | 271.8 | 272.8 | 275.8 |
| 130° | 284.7 | 286.6 | 287.5 | 288.5 | 292.5 | 292.7 | 293.5 | 295.5 | 295.5 | 296.4 | 299.3 |
| 132.5° | 307.2 | 308.2 | 311.2 | 312.1 | 315.0 | 315.2 | 316.0 | 319.0 | 319.0 | 320.0 | 322.9 |
| 135° | 329.8 | 330.8 | 332.7 | 334.7 | 338.6 | 338.6 | 338.6 | 341.5 | 341.5 | 342.5 | 344.5 |
| 137.5° | 352.3 | 353.3 | 356.3 | 357.3 | 360.2 | 360.2 | 360.2 | 362.2 | 362.2 | 363.2 | 367.0 |
| 140° | 375.0 | 375.9 | 377.8 | 378.8 | 380.8 | 381.0 | 381.8 | 382.8 | 382.8 | 384.7 | 388.7 |
| 142.5° | 396.5 | 398.5 | 400.5 | 399.5 | 402.4 | 402.4 | 402.4 | 404.3 | 404.3 | 405.3 | 408.3 |
| 145° | 417.2 | 418.1 | 420.0 | 420.0 | 423.0 | 423.2 | 424.0 | 426.0 | 425.0 | 426.0 | 428.9 |
| 147.5° | 435.8 | 435.8 | 438.7 | 439.7 | 443.7 | 443.9 | 444.6 | 445.6 | 443.7 | 444.6 | 447.5 |
| 150° | 452.5 | 453.5 | 455.4 | 456.4 | 460.3 | 460.5 | 461.3 | 462.3 | 460.3 | 460.3 | 464.2 |
| 152.5° | 470.2 | 471.1 | 474.0 | 473.0 | 476.0 | 476.2 | 477.0 | 478.0 | 477.0 | 477.0 | 480.0 |
| 155° | 489.8 | 490.7 | 492.7 | 491.7 | 493.7 | 493.7 | 493.7 | 494.7 | 493.7 | 494.7 | 497.6 |
| 157.5° | 503.5 | 505.5 | 507.5 | 506.5 | 509.4 | 509.4 | 509.4 | 509.4 | 507.5 | 508.4 | 513.3 |
| 160° | 515.3 | 517.2 | 519.2 | 519.2 | 522.2 | 522.2 | 522.2 | 522.2 | 520.2 | 520.2 | 523.2 |
| 162.5° | 525.1 | 526.0 | 529.0 | 528.0 | 531.0 | 531.0 | 531.0 | 532.0 | 530.0 | 528.0 | 530.0 |
| 165° | 535.9 | 536.8 | 538.8 | 537.8 | 541.8 | 541.8 | 541.8 | 542.8 | 539.8 | 537.8 | 539.8 |
| 167.5° | 544.7 | 545.7 | 548.7 | 547.7 | 550.6 | 550.4 | 549.7 | 549.7 | 547.7 | 548.7 | 552.5 |
| 170° | 551.6 | 552.5 | 555.5 | 554.5 | 556.5 | 556.3 | 555.5 | 554.5 | 553.5 | 555.5 | 560.5 |
| 172.5° | 554.5 | 555.5 | 558.5 | 556.5 | 558.5 | 558.3 | 557.5 | 558.5 | 556.5 | 557.5 | 560.5 |
| 175° | 556.5 | 558.5 | 559.5 | 558.5 | 561.4 | 561.4 | 561.4 | 562.4 | 559.5 | 557.5 | 560.5 |
| 177.5° | 561.4 | 562.4 | 564.3 | 563.3 | 567.3 | 567.1 | 566.3 | 566.3 | 563.3 | 563.3 | 566.3 |
| 180° | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 |



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CATALOG NUMBER: ISC-AF-1200-LED-E1-T4FT-7027-ULG

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 849.5 | 849.5 | 849.5 | 849.5 | 849.5 | 849.5 | 849.5 | 849.5 | 849.5 | 849.5 | 849.5 |
| 2.5° | 849.5 | 847.7 | 855.3 | 860.8 | 862.8 | 868.4 | 874.1 | 877.9 | 875.9 | 874.1 | 874.1 |
| 5° | 847.7 | 849.5 | 862.8 | 874.1 | 883.6 | 892.9 | 900.6 | 904.3 | 902.4 | 902.4 | 902.4 |
| 7.5° | 836.3 | 843.9 | 859.0 | 877.9 | 891.1 | 896.8 | 898.7 | 892.9 | 889.2 | 883.6 | 883.6 |
| 10° | 817.5 | 828.8 | 853.3 | 874.1 | 879.8 | 872.3 | 860.8 | 849.5 | 834.4 | 825.0 | 825.0 |
| 12.5° | 802.4 | 815.6 | 845.8 | 862.8 | 855.3 | 836.3 | 811.8 | 792.9 | 777.8 | 766.5 | 764.5 |
| 15° | 789.1 | 806.2 | 838.3 | 842.0 | 825.0 | 792.9 | 760.9 | 740.0 | 723.0 | 715.5 | 715.5 |
| 17.5° | 779.7 | 802.4 | 830.8 | 819.3 | 785.4 | 743.9 | 713.6 | 696.6 | 683.4 | 675.9 | 674.0 |
| 20° | 781.6 | 809.9 | 823.2 | 791.0 | 742.0 | 698.5 | 670.2 | 660.7 | 651.3 | 647.6 | 647.6 |
| 22.5° | 802.4 | 828.8 | 821.2 | 766.5 | 702.4 | 653.2 | 634.3 | 632.5 | 628.6 | 625.0 | 623.1 |
| 25° | 847.7 | 866.5 | 826.9 | 742.0 | 660.7 | 611.7 | 602.2 | 608.0 | 606.1 | 602.2 | 602.2 |
| 27.5° | 910.1 | 913.8 | 836.3 | 717.4 | 615.5 | 572.0 | 572.0 | 581.6 | 577.7 | 572.0 | 575.8 |
| 30° | 985.5 | 964.7 | 840.2 | 677.8 | 562.6 | 534.3 | 539.9 | 545.6 | 541.9 | 534.3 | 534.3 |
| 32.5° | 1066.6 | 1017.6 | 840.2 | 626.7 | 511.7 | 500.3 | 502.2 | 504.1 | 496.5 | 487.2 | 487.2 |
| 35° | 1146.0 | 1068.5 | 830.8 | 566.4 | 472.0 | 466.3 | 464.4 | 472.0 | 466.3 | 453.1 | 453.1 |
| 37.5° | 1221.4 | 1108.1 | 806.2 | 504.1 | 441.8 | 439.9 | 445.6 | 441.8 | 434.2 | 415.4 | 411.5 |
| 40° | 1274.3 | 1134.6 | 757.0 | 453.1 | 417.3 | 428.5 | 424.8 | 404.0 | 392.6 | 379.4 | 379.4 |
| 42.5° | 1321.6 | 1147.9 | 696.6 | 413.5 | 400.3 | 415.4 | 400.3 | 373.9 | 358.7 | 356.9 | 358.7 |
| 45° | 1365.0 | 1159.3 | 638.2 | 381.4 | 379.4 | 400.3 | 381.4 | 353.0 | 336.1 | 336.1 | 337.9 |
| 47.5° | 1406.5 | 1170.5 | 579.6 | 351.1 | 354.9 | 377.6 | 366.3 | 337.9 | 321.0 | 309.6 | 309.6 |
| 50° | 1472.6 | 1196.9 | 494.7 | 319.1 | 326.6 | 358.7 | 354.9 | 322.9 | 304.0 | 287.0 | 283.1 |
| 52.5° | 1551.9 | 1242.3 | 402.1 | 285.1 | 305.9 | 341.7 | 341.7 | 309.6 | 288.9 | 266.2 | 262.5 |
| 55° | 1657.6 | 1291.3 | 322.9 | 260.6 | 285.1 | 322.9 | 328.5 | 304.0 | 273.7 | 253.1 | 249.2 |
| 57.5° | 1763.4 | 1308.3 | 260.6 | 236.0 | 258.6 | 304.0 | 319.1 | 292.7 | 256.7 | 241.6 | 239.8 |
| 60° | 1836.9 | 1253.6 | 219.0 | 215.2 | 239.8 | 281.3 | 305.9 | 279.5 | 245.5 | 230.3 | 230.3 |
| 62.5° | 1825.6 | 1087.5 | 196.3 | 202.0 | 224.7 | 264.3 | 294.6 | 268.1 | 237.9 | 228.3 | 226.6 |
| 65° | 1665.2 | 821.2 | 177.4 | 190.7 | 211.4 | 247.3 | 283.1 | 262.5 | 234.1 | 224.7 | 220.9 |
| 67.5° | 1402.7 | 545.6 | 164.2 | 179.3 | 198.3 | 234.1 | 273.7 | 254.8 | 222.8 | 217.1 | 213.3 |
| 70° | 1015.7 | 319.1 | 151.1 | 168.1 | 185.1 | 219.0 | 260.6 | 239.8 | 209.6 | 205.8 | 196.3 |
| 72.5° | 549.4 | 200.1 | 135.9 | 152.9 | 168.1 | 200.1 | 239.8 | 220.9 | 192.6 | 177.4 | 171.8 |
| 75° | 251.1 | 145.3 | 120.8 | 135.9 | 147.2 | 175.6 | 215.2 | 194.4 | 171.8 | 152.9 | 149.2 |
| 77.5° | 168.1 | 109.5 | 102.0 | 117.0 | 122.7 | 147.2 | 190.7 | 154.8 | 134.0 | 120.8 | 117.0 |
| 80° | 115.2 | 81.2 | 83.0 | 96.3 | 94.4 | 117.0 | 143.5 | 124.7 | 105.7 | 109.5 | 100.0 |
| 82.5° | 73.6 | 56.6 | 64.2 | 67.9 | 66.0 | 88.8 | 111.4 | 94.4 | 79.3 | 66.0 | 56.6 |
| 85° | 32.1 | 30.3 | 37.8 | 39.6 | 39.6 | 49.0 | 58.5 | 47.3 | 35.8 | 26.4 | 26.4 |
| 87.5° | 1.9 | 3.8 | 3.8 | 5.7 | 3.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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° | 4.0 | 4.0 | 4.9 | 6.8 | 12.8 | 8.8 | 4.0 | 3.0 | 2.0 | 2.0 | 2.0 |
| 100° | 24.5 | 25.5 | 26.5 | 29.5 | 31.4 | 29.5 | 21.6 | 13.7 | 9.8 | 7.8 | 7.8 |
| 102.5° | 47.1 | 48.1 | 47.1 | 49.0 | 50.0 | 49.0 | 44.2 | 37.3 | 31.4 | 27.5 | 27.5 |
| 105° | 67.7 | 69.7 | 67.7 | 69.7 | 69.7 | 68.7 | 64.8 | 59.8 | 55.0 | 53.0 | 53.0 |
| 107.5° | 89.3 | 90.3 | 89.3 | 90.3 | 91.3 | 89.3 | 86.3 | 82.5 | 78.5 | 75.5 | 76.5 |
| 110° | 110.9 | 111.9 | 110.9 | 111.9 | 111.9 | 110.0 | 108.0 | 104.0 | 101.1 | 100.1 | 99.2 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 132.5 | 134.5 | 132.5 | 133.5 | 133.5 | 131.5 | 129.5 | 126.6 | 123.7 | 121.7 | 121.7 |
| 115° | 156.0 | 157.0 | 155.0 | 155.0 | 155.0 | 153.1 | 151.2 | 148.2 | 146.2 | 144.3 | 143.3 |
| 117.5° | 176.7 | 178.7 | 176.7 | 177.7 | 176.7 | 175.7 | 173.7 | 170.8 | 168.8 | 166.8 | 165.8 |
| 120° | 200.2 | 202.2 | 200.2 | 200.2 | 200.2 | 198.3 | 197.3 | 194.3 | 192.3 | 191.4 | 189.5 |
| 122.5° | 227.7 | 228.7 | 224.8 | 223.8 | 223.8 | 222.8 | 221.8 | 218.8 | 216.9 | 216.0 | 215.0 |
| 125° | 251.3 | 252.2 | 249.3 | 249.3 | 248.3 | 247.3 | 246.3 | 243.4 | 242.5 | 241.5 | 239.5 |
| 127.5° | 272.8 | 275.8 | 272.8 | 271.8 | 272.8 | 270.9 | 269.0 | 267.0 | 265.0 | 264.0 | 262.0 |
| 130° | 297.4 | 299.3 | 296.4 | 295.5 | 295.5 | 293.5 | 292.5 | 288.5 | 287.5 | 286.6 | 284.7 |
| 132.5° | 321.0 | 322.9 | 320.0 | 319.0 | 319.0 | 316.0 | 315.0 | 312.1 | 311.2 | 308.2 | 307.2 |
| 135° | 343.5 | 344.5 | 342.5 | 341.5 | 341.5 | 338.6 | 338.6 | 334.7 | 332.7 | 330.8 | 329.8 |
| 137.5° | 365.1 | 367.0 | 363.2 | 362.2 | 362.2 | 360.2 | 360.2 | 357.3 | 356.3 | 353.3 | 352.3 |
| 140° | 386.7 | 388.7 | 384.7 | 382.8 | 382.8 | 381.8 | 380.8 | 378.8 | 377.8 | 375.9 | 375.0 |
| 142.5° | 407.3 | 408.3 | 405.3 | 404.3 | 404.3 | 402.4 | 402.4 | 399.5 | 400.5 | 398.5 | 396.5 |
| 145° | 427.0 | 428.9 | 426.0 | 425.0 | 426.0 | 424.0 | 423.0 | 420.0 | 420.0 | 418.1 | 417.2 |
| 147.5° | 444.6 | 447.5 | 444.6 | 443.7 | 445.6 | 444.6 | 443.7 | 439.7 | 438.7 | 435.8 | 435.8 |
| 150° | 461.3 | 464.2 | 460.3 | 460.3 | 462.3 | 461.3 | 460.3 | 456.4 | 455.4 | 453.5 | 452.5 |
| 152.5° | 477.0 | 480.0 | 477.0 | 477.0 | 478.0 | 477.0 | 476.0 | 473.0 | 474.0 | 471.1 | 470.2 |
| 155° | 495.7 | 497.6 | 494.7 | 493.7 | 494.7 | 493.7 | 493.7 | 491.7 | 492.7 | 490.7 | 489.8 |
| 157.5° | 510.3 | 513.3 | 508.4 | 507.5 | 509.4 | 509.4 | 509.4 | 506.5 | 507.5 | 505.5 | 503.5 |
| 160° | 521.2 | 523.2 | 520.2 | 520.2 | 522.2 | 522.2 | 522.2 | 519.2 | 519.2 | 517.2 | 515.3 |
| 162.5° | 527.0 | 530.0 | 528.0 | 530.0 | 532.0 | 531.0 | 531.0 | 528.0 | 529.0 | 526.0 | 525.1 |
| 165° | 537.8 | 539.8 | 537.8 | 539.8 | 542.8 | 541.8 | 541.8 | 537.8 | 538.8 | 536.8 | 535.9 |
| 167.5° | 550.6 | 552.5 | 548.7 | 547.7 | 549.7 | 549.7 | 550.6 | 547.7 | 548.7 | 545.7 | 544.7 |
| 170° | 558.5 | 560.5 | 555.5 | 553.5 | 554.5 | 555.5 | 556.5 | 554.5 | 555.5 | 552.5 | 551.6 |
| 172.5° | 557.5 | 560.5 | 557.5 | 556.5 | 558.5 | 557.5 | 558.5 | 556.5 | 558.5 | 555.5 | 554.5 |
| 175° | 557.5 | 560.5 | 557.5 | 559.5 | 562.4 | 561.4 | 561.4 | 558.5 | 559.5 | 558.5 | 556.5 |
| 177.5° | 563.3 | 566.3 | 563.3 | 563.3 | 566.3 | 566.3 | 567.3 | 563.3 | 564.3 | 562.4 | 561.4 |
| 180° | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 |

(END OF REPORT)