

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: P270182

Luminaire Tested: **GWC-AF-01-LED-E1-T4FT-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-T4FT-7027-600
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3660.9 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

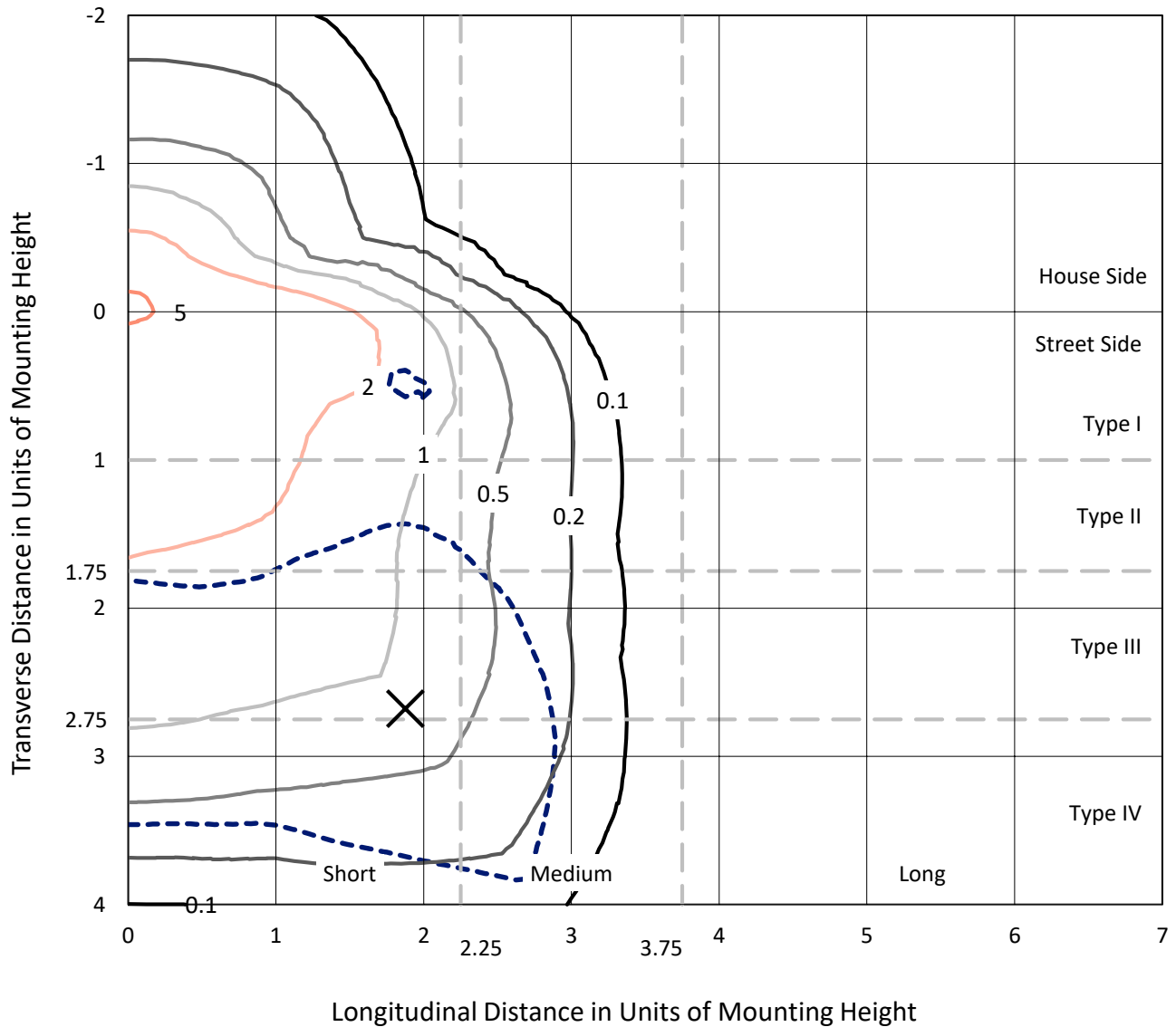
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

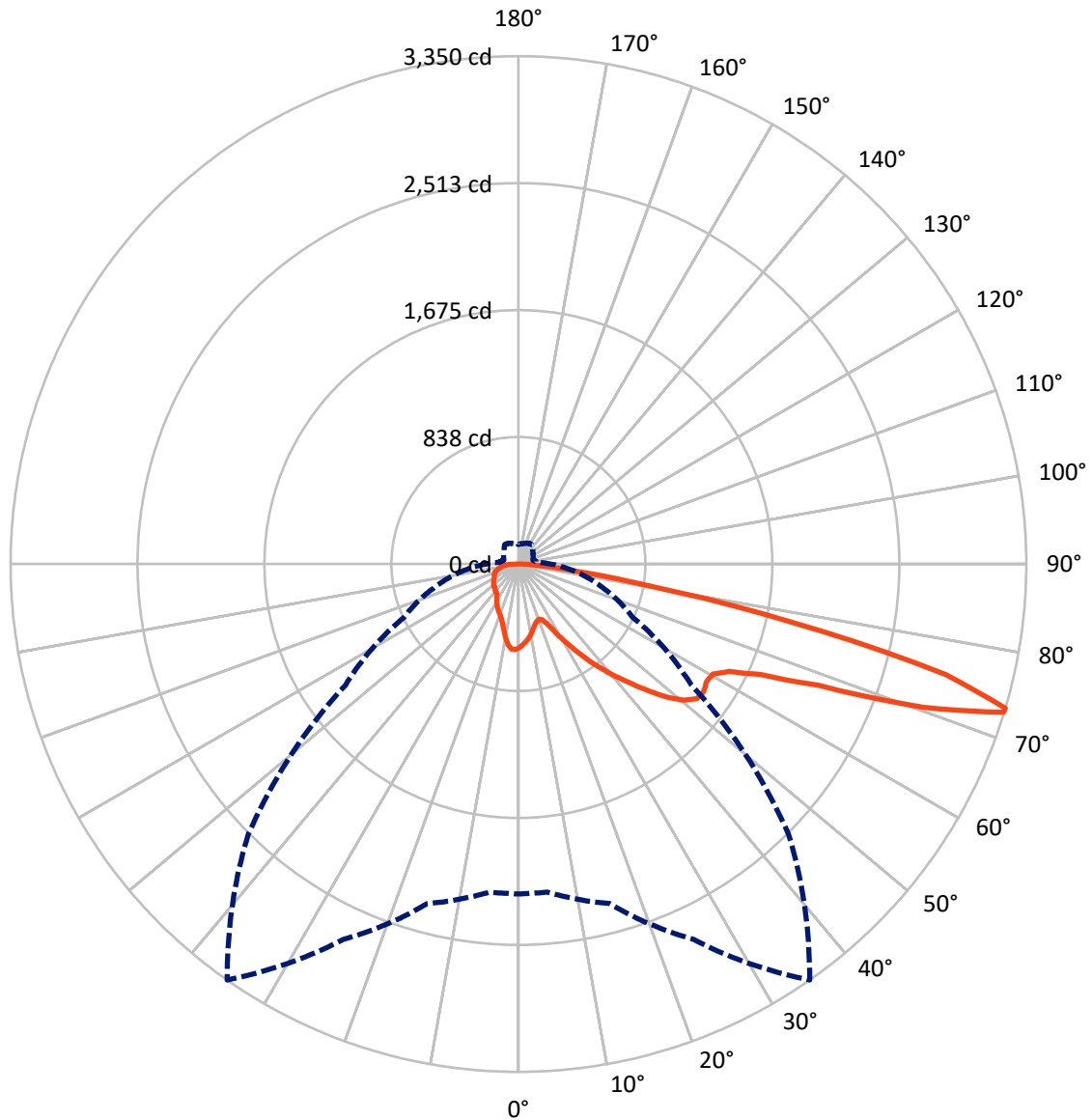
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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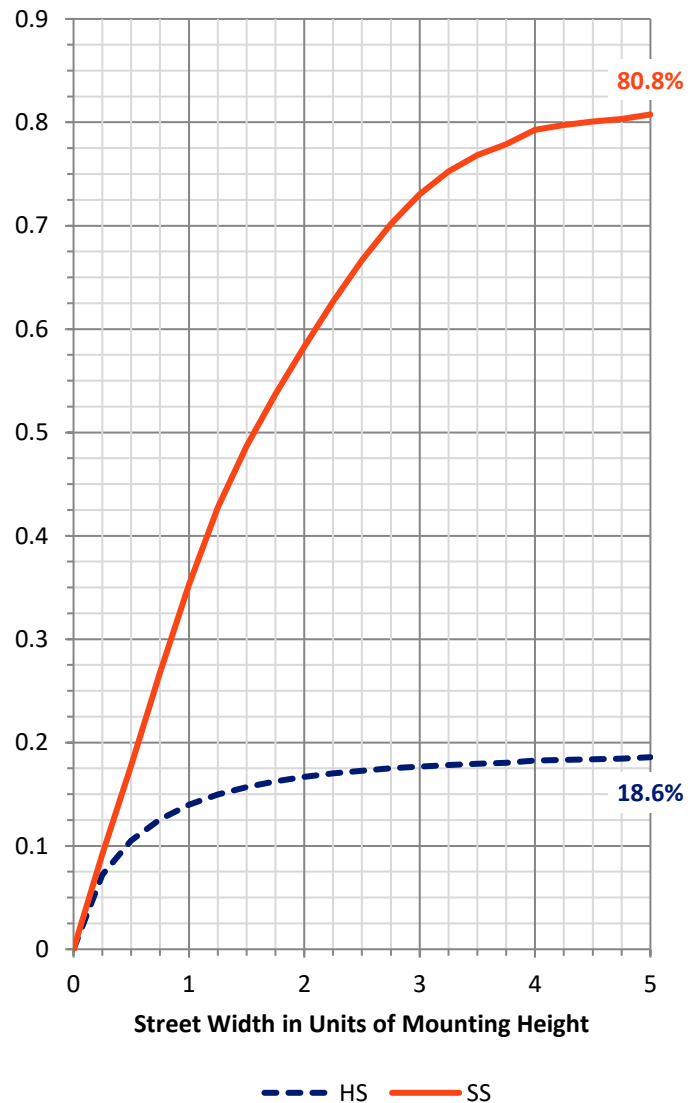
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 698.2 | 0.0 | 698.2 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 2962.7 | 0.0 | 2962.7 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 3660.9 | 0.0 | 3660.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.0 | 1.4 |
| 10°-20° | 124.8 | 3.4 |
| 20°-30° | 201.8 | 5.5 |
| 30°-40° | 338.4 | 9.2 |
| 40°-50° | 521.7 | 14.3 |
| 50°-60° | 699.9 | 19.1 |
| 60°-70° | 932.4 | 25.5 |
| 70°-80° | 711.2 | 19.4 |
| 80°-90° | 80.6 | 2.2 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 3660.9 | 100.0 |
| 0°-180° | 3660.9 | 100.0 |



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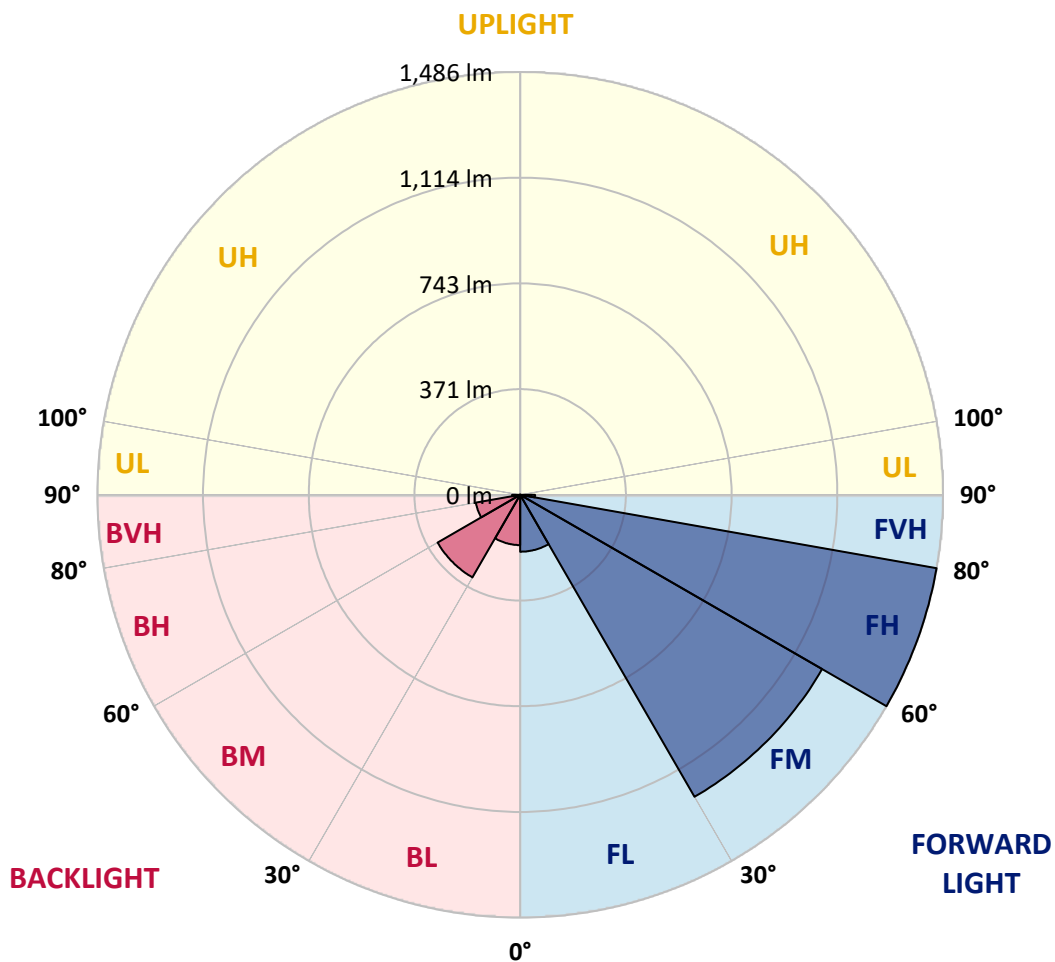
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 200.0 | 5.5 | | | |
| FM | (30°-60°) | 1225.0 | 33.5 | | | |
| FH | (60°-80°) | 1485.6 | 40.6 | | | G1/1800 |
| FVH | (80°-90°) | 52.1 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 176.7 | 4.8 | B1/500 | | |
| BM | (30°-60°) | 335.1 | 9.2 | B1/1000 | | |
| BH | (60°-80°) | 158.0 | 4.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 28.5 | 0.8 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 552.5 | 552.5 | 552.5 | 552.5 | 552.5 | 552.5 | 552.5 | 552.5 | 552.5 | 552.5 | 552.5 |
| 2.5° | 530.8 | 531.7 | 530.5 | 532.2 | 534.9 | 537.5 | 539.5 | 542.3 | 545.5 | 549.9 | 551.0 |
| 5° | 505.7 | 507.4 | 507.4 | 510.1 | 515.3 | 519.8 | 524.2 | 528.7 | 535.3 | 542.8 | 545.9 |
| 7.5° | 478.3 | 479.2 | 480.9 | 485.1 | 492.5 | 498.9 | 504.8 | 512.4 | 521.5 | 531.4 | 536.7 |
| 10° | 445.3 | 446.5 | 449.1 | 455.0 | 465.1 | 473.9 | 482.6 | 492.8 | 504.4 | 516.9 | 523.5 |
| 12.5° | 421.9 | 421.6 | 422.7 | 427.1 | 435.8 | 446.6 | 459.3 | 472.1 | 486.4 | 501.1 | 509.1 |
| 15° | 413.9 | 412.1 | 408.0 | 407.0 | 411.8 | 422.7 | 437.0 | 453.0 | 470.2 | 487.7 | 497.8 |
| 17.5° | 418.9 | 415.6 | 404.5 | 396.4 | 395.8 | 404.0 | 419.2 | 437.2 | 456.9 | 478.3 | 490.8 |
| 20° | 450.0 | 442.0 | 414.7 | 396.0 | 389.3 | 393.5 | 406.8 | 425.7 | 449.1 | 477.4 | 493.4 |
| 22.5° | 523.9 | 512.4 | 454.5 | 419.5 | 397.5 | 392.6 | 402.6 | 422.8 | 450.0 | 488.4 | 508.8 |
| 25° | 631.7 | 615.1 | 522.6 | 478.2 | 432.9 | 406.7 | 408.9 | 429.7 | 462.4 | 513.7 | 538.4 |
| 27.5° | 716.8 | 706.0 | 611.7 | 561.0 | 497.2 | 444.7 | 429.5 | 446.8 | 487.9 | 555.2 | 580.3 |
| 30° | 767.4 | 760.9 | 707.1 | 654.9 | 579.2 | 505.0 | 468.8 | 479.2 | 527.8 | 612.6 | 633.5 |
| 32.5° | 826.1 | 822.2 | 795.9 | 747.8 | 667.9 | 584.5 | 531.3 | 527.6 | 581.3 | 681.8 | 691.2 |
| 35° | 886.9 | 885.6 | 870.2 | 835.8 | 763.0 | 689.3 | 614.1 | 589.1 | 639.5 | 753.5 | 747.5 |
| 37.5° | 943.5 | 941.5 | 932.5 | 912.4 | 862.6 | 801.8 | 698.4 | 652.2 | 702.1 | 822.0 | 795.4 |
| 40° | 1047.9 | 1031.3 | 1000.5 | 985.4 | 963.1 | 896.6 | 765.4 | 711.1 | 767.2 | 887.4 | 837.0 |
| 42.5° | 1175.0 | 1148.0 | 1090.7 | 1069.9 | 1066.7 | 971.2 | 811.2 | 768.3 | 832.8 | 952.4 | 877.7 |
| 45° | 1275.0 | 1249.6 | 1200.1 | 1174.1 | 1185.7 | 1039.0 | 857.1 | 829.2 | 900.3 | 1020.4 | 919.9 |
| 47.5° | 1381.7 | 1341.9 | 1276.5 | 1284.3 | 1309.6 | 1102.9 | 903.9 | 894.8 | 974.3 | 1096.6 | 972.1 |
| 50° | 1385.5 | 1355.2 | 1326.4 | 1373.7 | 1413.2 | 1161.9 | 962.4 | 963.6 | 1064.9 | 1192.3 | 1041.5 |
| 52.5° | 1305.1 | 1298.7 | 1344.1 | 1418.6 | 1475.3 | 1208.5 | 1029.0 | 1034.6 | 1180.7 | 1302.4 | 1117.8 |
| 55° | 1277.0 | 1269.7 | 1322.2 | 1403.0 | 1483.8 | 1246.9 | 1101.2 | 1111.5 | 1320.8 | 1418.3 | 1192.1 |
| 57.5° | 1345.7 | 1329.2 | 1332.7 | 1395.5 | 1463.2 | 1289.2 | 1180.1 | 1200.6 | 1473.0 | 1519.8 | 1239.9 |
| 60° | 1537.2 | 1502.2 | 1435.9 | 1434.2 | 1474.3 | 1352.5 | 1271.0 | 1296.2 | 1631.3 | 1568.4 | 1221.2 |
| 62.5° | 1806.0 | 1771.1 | 1646.6 | 1565.6 | 1559.5 | 1457.0 | 1382.9 | 1389.6 | 1722.7 | 1502.5 | 1107.6 |
| 65° | 2097.0 | 2065.7 | 1926.7 | 1812.2 | 1756.9 | 1629.9 | 1512.7 | 1431.2 | 1692.8 | 1321.6 | 908.5 |
| 67.5° | 2450.1 | 2416.6 | 2297.1 | 2191.3 | 2138.2 | 1909.1 | 1604.1 | 1391.4 | 1503.1 | 1023.9 | 653.1 |
| 70° | 2697.3 | 2662.8 | 2615.8 | 2701.5 | 2831.3 | 2311.8 | 1615.8 | 1229.1 | 1122.7 | 680.6 | 393.1 |
| 72.5° | 2374.8 | 2358.9 | 2444.8 | 2805.4 | 3346.5 | 2556.1 | 1460.6 | 894.8 | 652.1 | 361.3 | 227.5 |
| 73° | 2176.0 | 2172.5 | 2319.1 | 2732.6 | 3350.3 | 2518.6 | 1392.6 | 831.7 | 559.3 | 319.5 | 208.0 |
| 75° | 982.6 | 1010.9 | 1332.2 | 2087.1 | 2910.8 | 2075.4 | 980.1 | 477.1 | 315.9 | 220.9 | 157.1 |
| 77.5° | 236.2 | 246.0 | 416.9 | 991.2 | 1838.2 | 1236.7 | 444.1 | 236.0 | 201.9 | 155.9 | 114.7 |
| 80° | 100.6 | 103.9 | 160.4 | 366.1 | 865.4 | 498.0 | 204.6 | 158.0 | 139.7 | 108.9 | 80.4 |
| 82.5° | 56.0 | 59.4 | 91.1 | 166.1 | 349.4 | 169.8 | 124.9 | 110.0 | 91.9 | 65.5 | 52.2 |
| 85° | 31.6 | 33.5 | 53.3 | 92.9 | 148.0 | 68.2 | 74.6 | 73.1 | 51.8 | 33.7 | 25.7 |
| 87.5° | 14.9 | 16.2 | 25.7 | 43.1 | 58.0 | 26.7 | 38.0 | 41.9 | 32.5 | 20.7 | 13.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GWC-AF-01-LED-E1-T4FT-7027-600

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 552.5 | 552.5 | 552.5 | 552.5 | 552.5 | 552.5 | 552.5 | 552.5 | 552.5 | 552.5 |
| 2.5° | 552.2 | 555.3 | 559.0 | 561.0 | 562.8 | 564.9 | 567.0 | 567.0 | 567.3 | 567.5 |
| 5° | 548.3 | 554.9 | 560.6 | 563.1 | 563.6 | 563.6 | 563.1 | 560.4 | 557.8 | 558.8 |
| 7.5° | 540.2 | 549.8 | 554.7 | 553.7 | 547.1 | 539.3 | 532.9 | 525.0 | 520.8 | 520.2 |
| 10° | 528.7 | 539.5 | 540.4 | 531.6 | 515.1 | 498.6 | 484.8 | 471.5 | 465.2 | 463.5 |
| 12.5° | 515.7 | 525.8 | 520.2 | 502.2 | 475.6 | 451.5 | 434.1 | 420.5 | 414.6 | 413.0 |
| 15° | 505.4 | 512.4 | 498.0 | 469.5 | 436.1 | 410.6 | 396.2 | 386.2 | 382.0 | 380.8 |
| 17.5° | 499.9 | 501.3 | 475.4 | 436.8 | 401.4 | 380.2 | 371.1 | 366.4 | 364.8 | 364.0 |
| 20° | 502.6 | 492.8 | 453.7 | 406.5 | 372.8 | 358.0 | 355.8 | 354.7 | 354.2 | 353.8 |
| 22.5° | 515.7 | 490.1 | 433.9 | 377.6 | 348.0 | 341.4 | 343.2 | 343.1 | 342.7 | 342.3 |
| 25° | 539.3 | 492.5 | 414.6 | 350.2 | 327.1 | 325.5 | 328.8 | 328.8 | 327.3 | 327.3 |
| 27.5° | 570.5 | 497.2 | 392.9 | 324.2 | 307.9 | 308.2 | 310.6 | 309.9 | 308.4 | 307.3 |
| 30° | 608.4 | 500.1 | 367.5 | 300.8 | 290.2 | 289.6 | 290.2 | 287.3 | 282.4 | 282.2 |
| 32.5° | 647.3 | 496.5 | 338.2 | 280.0 | 271.5 | 269.9 | 269.3 | 265.1 | 259.7 | 258.1 |
| 35° | 682.4 | 482.8 | 308.4 | 263.6 | 253.5 | 250.0 | 252.5 | 251.0 | 246.1 | 244.9 |
| 37.5° | 708.1 | 457.7 | 281.4 | 248.9 | 240.7 | 239.8 | 241.4 | 242.0 | 236.2 | 234.8 |
| 40° | 725.3 | 423.7 | 258.4 | 236.7 | 238.2 | 234.8 | 229.5 | 226.0 | 224.1 | 223.6 |
| 42.5° | 739.2 | 388.2 | 239.0 | 230.9 | 238.7 | 229.1 | 217.7 | 211.7 | 214.9 | 216.2 |
| 45° | 755.2 | 353.6 | 222.9 | 223.6 | 236.2 | 222.4 | 209.3 | 203.6 | 204.9 | 205.2 |
| 47.5° | 777.3 | 311.4 | 205.5 | 212.0 | 227.4 | 217.7 | 204.3 | 196.0 | 190.3 | 187.6 |
| 50° | 807.7 | 261.4 | 187.3 | 199.1 | 218.6 | 214.4 | 196.4 | 187.6 | 176.8 | 174.5 |
| 52.5° | 828.7 | 214.9 | 172.5 | 188.1 | 210.9 | 207.8 | 190.0 | 178.7 | 167.4 | 165.3 |
| 55° | 817.3 | 178.5 | 159.4 | 176.0 | 200.9 | 199.6 | 184.8 | 169.5 | 160.6 | 158.9 |
| 57.5° | 760.1 | 155.3 | 149.5 | 164.6 | 188.3 | 192.4 | 177.8 | 161.8 | 155.3 | 154.1 |
| 60° | 651.2 | 141.0 | 143.1 | 156.8 | 178.0 | 185.5 | 170.7 | 157.6 | 153.3 | 152.4 |
| 62.5° | 505.2 | 131.3 | 138.3 | 151.2 | 170.1 | 180.6 | 166.8 | 157.1 | 155.3 | 154.4 |
| 65° | 361.9 | 123.5 | 133.3 | 145.5 | 163.0 | 176.0 | 165.5 | 156.2 | 156.7 | 155.8 |
| 67.5° | 246.0 | 116.7 | 127.1 | 139.2 | 155.9 | 171.9 | 163.5 | 153.8 | 158.2 | 157.2 |
| 70° | 172.1 | 110.0 | 120.0 | 131.2 | 147.1 | 166.2 | 160.0 | 150.1 | 149.7 | 145.5 |
| 72.5° | 134.2 | 101.2 | 110.0 | 120.0 | 136.0 | 158.5 | 152.9 | 141.8 | 136.1 | 131.7 |
| 73° | 128.2 | 99.2 | 107.5 | 117.5 | 133.5 | 156.5 | 151.1 | 139.5 | 133.0 | 129.0 |
| 75° | 106.0 | 90.0 | 97.7 | 106.4 | 122.9 | 147.3 | 141.6 | 129.3 | 120.9 | 118.4 |
| 77.5° | 83.4 | 77.1 | 84.4 | 92.3 | 108.2 | 133.9 | 127.5 | 115.7 | 111.1 | 109.1 |
| 80° | 61.8 | 63.8 | 70.2 | 77.3 | 93.9 | 119.7 | 113.9 | 102.1 | 122.4 | 117.5 |
| 82.5° | 43.4 | 48.4 | 54.3 | 60.6 | 78.7 | 105.8 | 98.9 | 86.6 | 89.7 | 74.5 |
| 85° | 25.7 | 31.6 | 37.3 | 42.7 | 56.9 | 87.8 | 81.6 | 69.1 | 56.7 | 54.0 |
| 87.5° | 14.9 | 17.5 | 19.1 | 24.9 | 39.0 | 66.0 | 57.5 | 51.2 | 29.4 | 19.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)