

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: P270161

Luminaire Tested: **GWC-AF-01-LED-E1-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7027
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5248 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

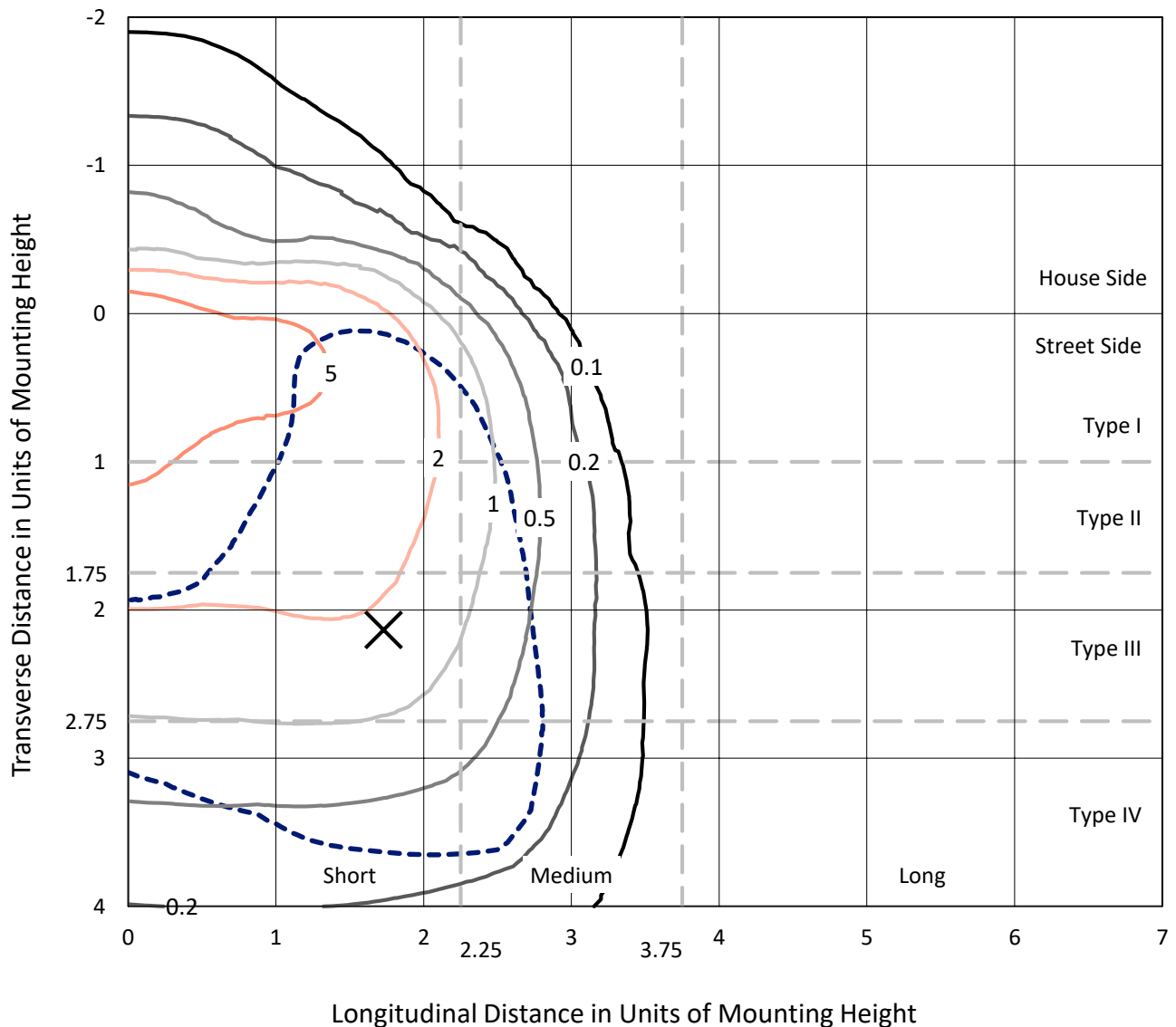
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

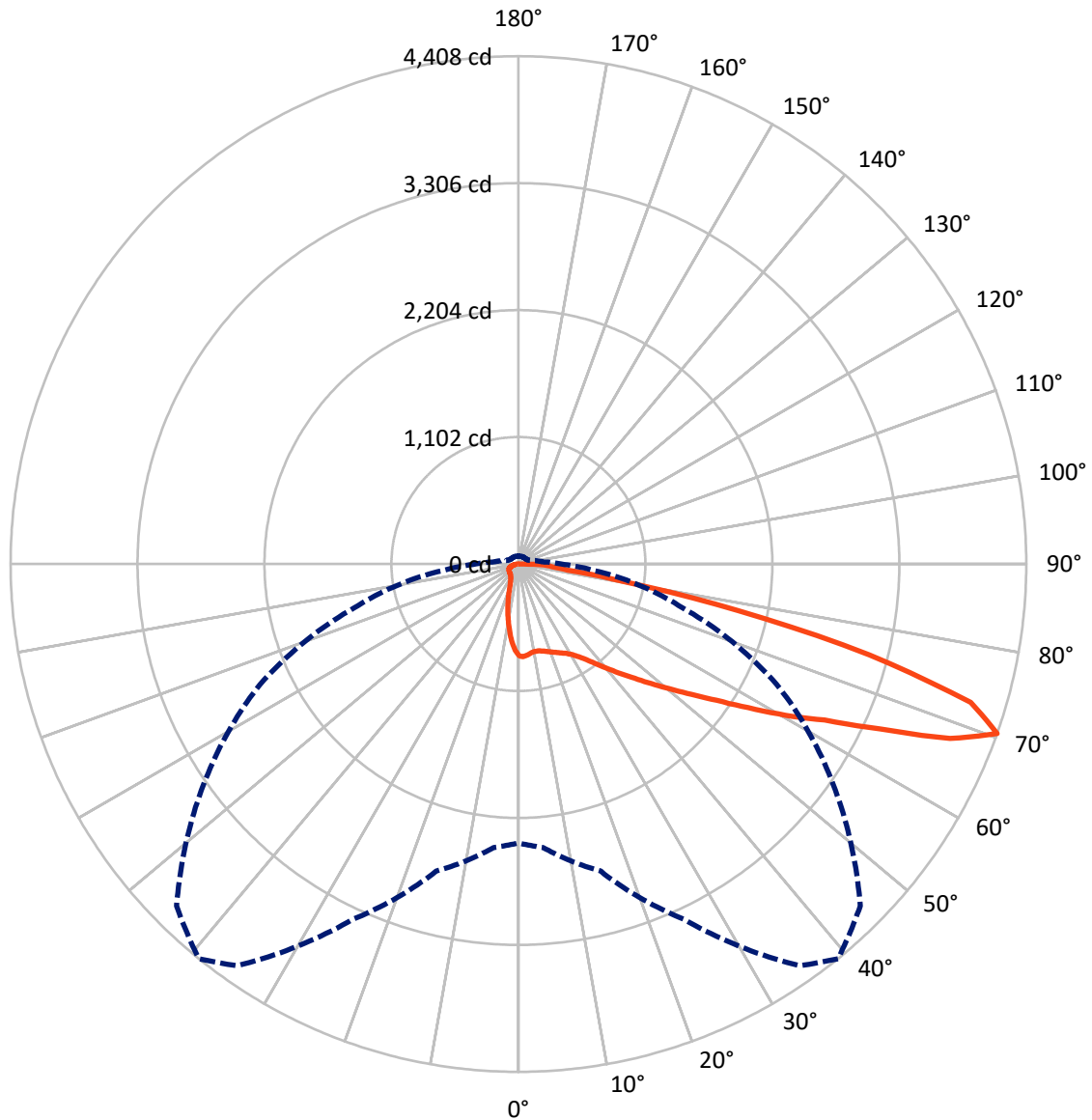
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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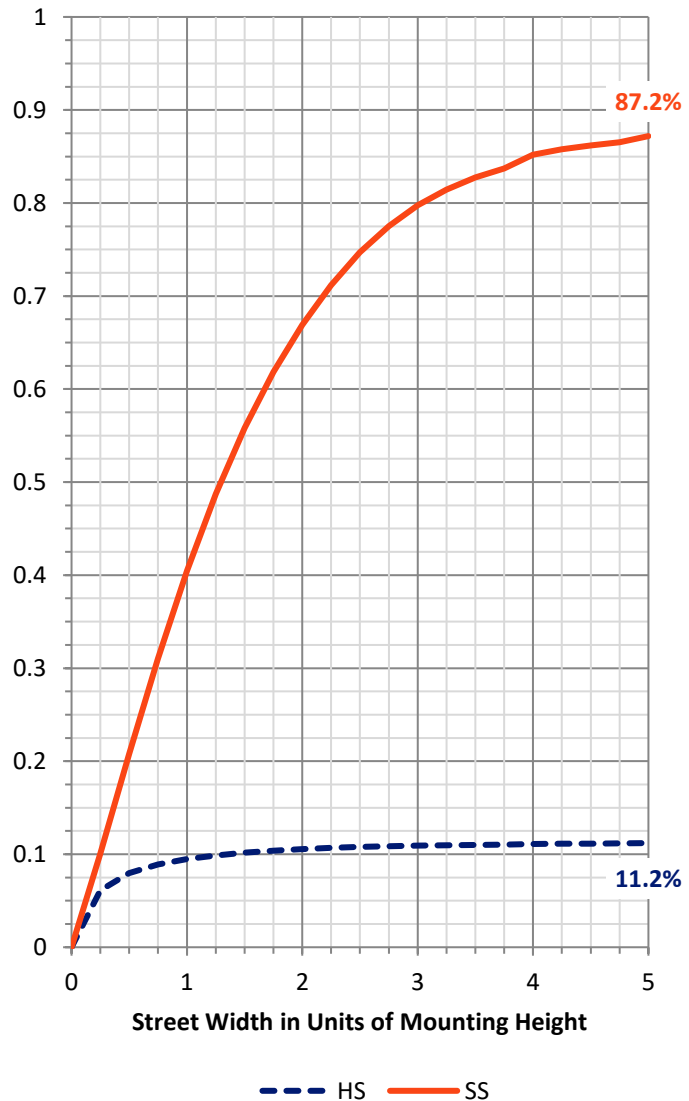
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 596.9 | 0.0 | 596.9 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 4651.1 | 0.0 | 4651.1 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 5248.0 | 0.0 | 5248.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.4 | 1.3 |
| 10°-20° | 170.9 | 3.3 |
| 20°-30° | 266.1 | 5.1 |
| 30°-40° | 414.6 | 7.9 |
| 40°-50° | 696.0 | 13.3 |
| 50°-60° | 1105.6 | 21.1 |
| 60°-70° | 1474.7 | 28.1 |
| 70°-80° | 890.6 | 17.0 |
| 80°-90° | 161.2 | 3.1 |
| 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° | 5248.0 | 100.0 |
| 0°-180° | 5248.0 | 100.0 |



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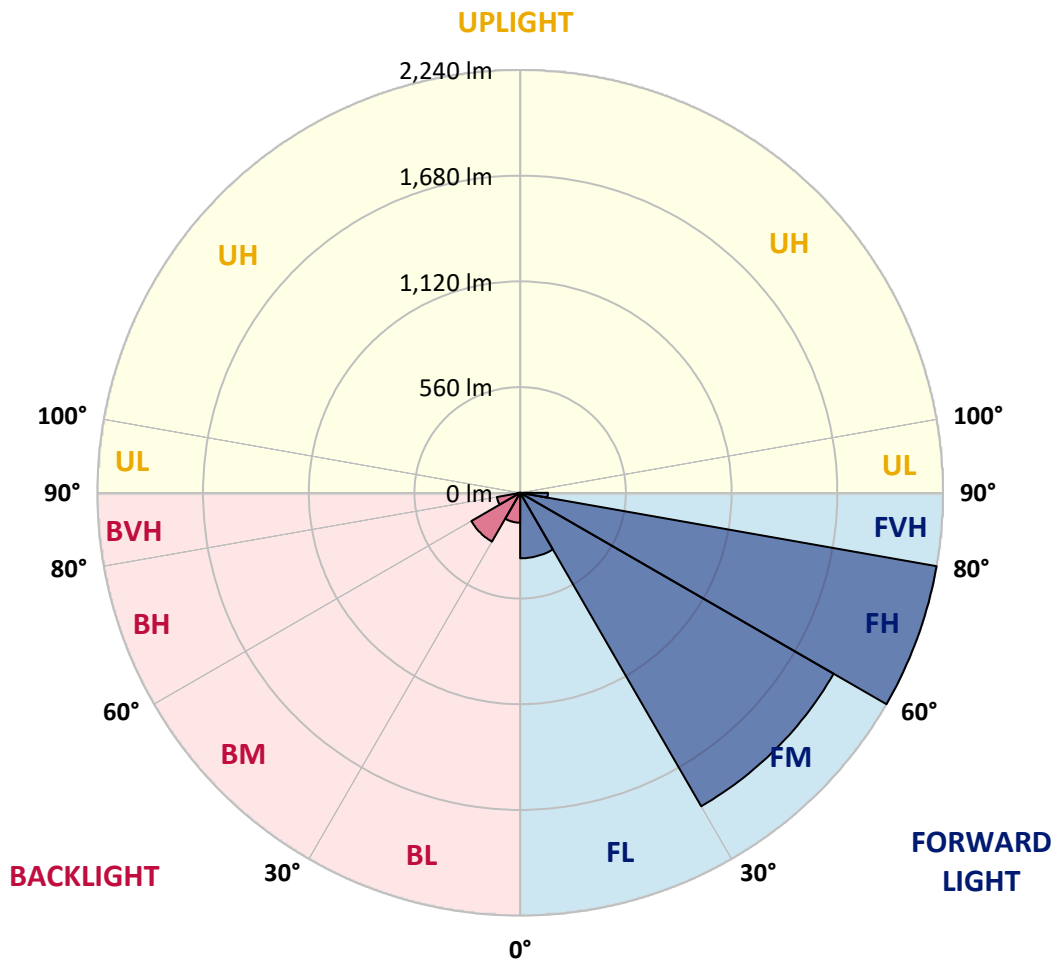
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 347.1 | 6.6 | | | |
| FM | (30°-60°) | 1917.4 | 36.5 | | | |
| FH | (60°-80°) | 2240.0 | 42.7 | | | G2/5000 |
| FVH | (80°-90°) | 146.7 | 2.8 | | | G2/225 |
| BL | (0°-30°) | 158.3 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 298.7 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 125.3 | 2.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 14.5 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 796.7 | 796.7 | 796.7 | 796.7 | 796.7 | 796.7 | 796.7 | 796.7 | 796.7 | 796.7 | 796.7 |
| 2.5° | 812.2 | 812.0 | 809.8 | 808.1 | 806.9 | 806.3 | 807.3 | 803.4 | 799.9 | 795.7 | 791.0 |
| 5° | 806.0 | 805.8 | 802.4 | 799.1 | 795.9 | 794.9 | 794.6 | 787.4 | 783.1 | 776.8 | 768.2 |
| 7.5° | 799.4 | 798.1 | 793.6 | 788.3 | 782.6 | 779.9 | 777.3 | 768.0 | 763.1 | 756.7 | 746.9 |
| 10° | 792.5 | 790.9 | 786.6 | 781.3 | 776.0 | 772.0 | 767.4 | 758.3 | 753.1 | 748.5 | 737.0 |
| 12.5° | 785.3 | 784.0 | 782.9 | 780.4 | 776.8 | 773.3 | 769.8 | 762.0 | 756.7 | 751.2 | 737.8 |
| 15° | 784.2 | 783.6 | 786.0 | 787.6 | 785.5 | 783.4 | 779.6 | 773.0 | 767.4 | 761.8 | 744.4 |
| 17.5° | 792.8 | 792.5 | 798.7 | 802.8 | 801.7 | 798.1 | 793.1 | 785.5 | 780.9 | 776.1 | 754.5 |
| 20° | 811.3 | 812.7 | 820.2 | 825.8 | 820.5 | 815.1 | 806.9 | 796.4 | 794.0 | 791.9 | 764.9 |
| 22.5° | 846.7 | 848.0 | 853.3 | 855.5 | 841.5 | 833.7 | 822.4 | 809.1 | 807.3 | 809.1 | 777.6 |
| 25° | 901.5 | 900.2 | 899.5 | 891.5 | 866.1 | 854.1 | 839.5 | 825.5 | 826.4 | 833.5 | 795.1 |
| 27.5° | 974.4 | 967.3 | 956.1 | 932.0 | 891.7 | 878.4 | 860.4 | 847.7 | 852.8 | 866.7 | 821.5 |
| 30° | 1049.8 | 1041.9 | 1016.1 | 976.8 | 925.3 | 910.6 | 890.7 | 876.2 | 889.6 | 911.5 | 856.8 |
| 32.5° | 1119.8 | 1118.7 | 1080.9 | 1030.4 | 971.7 | 958.9 | 939.0 | 922.6 | 944.3 | 977.6 | 909.7 |
| 35° | 1196.2 | 1198.6 | 1153.2 | 1092.6 | 1034.5 | 1021.2 | 1006.7 | 994.5 | 1023.3 | 1069.2 | 986.2 |
| 37.5° | 1277.7 | 1282.6 | 1229.1 | 1160.7 | 1106.0 | 1100.3 | 1091.8 | 1086.5 | 1131.1 | 1194.6 | 1093.1 |
| 40° | 1387.0 | 1382.1 | 1307.8 | 1237.5 | 1193.8 | 1193.5 | 1190.9 | 1197.3 | 1271.5 | 1358.3 | 1230.6 |
| 42.5° | 1503.9 | 1489.7 | 1391.1 | 1320.0 | 1290.1 | 1299.2 | 1304.5 | 1330.6 | 1440.3 | 1557.4 | 1398.1 |
| 45° | 1629.7 | 1597.9 | 1477.9 | 1407.3 | 1397.0 | 1416.3 | 1434.5 | 1491.2 | 1639.0 | 1783.9 | 1581.7 |
| 47.5° | 1730.3 | 1699.7 | 1567.5 | 1498.7 | 1520.9 | 1549.9 | 1584.9 | 1674.8 | 1861.6 | 2018.0 | 1762.8 |
| 50° | 1809.5 | 1789.6 | 1658.0 | 1605.5 | 1657.3 | 1702.1 | 1759.2 | 1882.7 | 2093.2 | 2245.9 | 1930.6 |
| 52.5° | 1886.4 | 1871.4 | 1749.3 | 1714.9 | 1817.4 | 1879.3 | 1956.9 | 2105.7 | 2330.7 | 2470.0 | 2071.9 |
| 55° | 1955.8 | 1945.1 | 1847.5 | 1851.1 | 2005.6 | 2086.3 | 2183.9 | 2359.8 | 2589.5 | 2669.9 | 2191.3 |
| 57.5° | 2033.9 | 2020.4 | 1959.6 | 2022.3 | 2247.6 | 2352.3 | 2479.3 | 2645.2 | 2832.3 | 2847.4 | 2282.4 |
| 60° | 2112.6 | 2101.0 | 2083.9 | 2219.7 | 2555.0 | 2665.0 | 2785.4 | 2921.9 | 3078.6 | 2985.4 | 2277.1 |
| 62.5° | 2180.9 | 2182.3 | 2212.4 | 2427.0 | 2856.0 | 2983.4 | 3130.1 | 3265.1 | 3301.5 | 3009.4 | 2108.7 |
| 65° | 2296.7 | 2317.8 | 2407.7 | 2720.4 | 3279.7 | 3450.0 | 3630.1 | 3608.5 | 3363.1 | 2785.0 | 1747.7 |
| 67.5° | 2434.4 | 2471.5 | 2653.9 | 3111.6 | 3815.2 | 4041.3 | 4111.0 | 3686.1 | 3116.2 | 2264.0 | 1245.8 |
| 70° | 2420.7 | 2471.5 | 2760.0 | 3403.3 | 4256.6 | 4408.2 | 4196.8 | 3336.0 | 2474.6 | 1479.0 | 661.7 |
| 72.5° | 2149.6 | 2222.3 | 2543.6 | 3269.7 | 4117.7 | 4104.3 | 3643.4 | 2487.0 | 1470.2 | 593.9 | 258.5 |
| 75° | 1638.2 | 1711.9 | 1988.4 | 2583.0 | 3254.4 | 3142.4 | 2585.2 | 1373.9 | 557.8 | 235.9 | 163.0 |
| 77.5° | 942.4 | 999.5 | 1213.0 | 1584.2 | 2064.7 | 1949.6 | 1438.9 | 610.9 | 271.6 | 164.4 | 127.3 |
| 80° | 526.1 | 557.8 | 687.7 | 803.7 | 1011.9 | 927.5 | 643.8 | 379.7 | 202.7 | 119.3 | 98.2 |
| 82.5° | 415.9 | 444.2 | 556.1 | 507.0 | 462.2 | 426.3 | 369.8 | 338.0 | 162.0 | 75.3 | 58.7 |
| 85° | 363.5 | 390.4 | 470.7 | 399.1 | 315.7 | 289.6 | 300.5 | 332.7 | 125.9 | 45.4 | 50.1 |
| 87.5° | 336.8 | 372.7 | 419.5 | 307.6 | 245.7 | 217.7 | 277.2 | 364.7 | 40.6 | 28.2 | 20.3 |
| 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-SL4-7027

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 796.7 | 796.7 | 796.7 | 796.7 | 796.7 | 796.7 | 796.7 | 796.7 | 796.7 | 796.7 | 796.7 |
| 2.5° | 787.2 | 782.9 | 776.0 | 769.8 | 760.1 | 755.0 | 749.5 | 745.6 | 742.3 | 739.7 | 743.8 |
| 5° | 762.8 | 754.8 | 740.2 | 724.5 | 705.8 | 691.1 | 678.8 | 667.4 | 659.4 | 654.0 | 657.6 |
| 7.5° | 739.9 | 726.8 | 703.9 | 675.3 | 643.2 | 616.1 | 593.7 | 573.9 | 560.4 | 551.5 | 555.1 |
| 10° | 726.8 | 710.5 | 675.0 | 630.3 | 583.0 | 540.6 | 505.3 | 474.9 | 453.9 | 441.8 | 443.8 |
| 12.5° | 723.7 | 702.6 | 653.4 | 591.9 | 527.2 | 468.2 | 418.6 | 376.5 | 346.8 | 331.4 | 332.0 |
| 15° | 726.0 | 699.2 | 633.1 | 555.1 | 473.3 | 398.8 | 337.0 | 285.8 | 251.3 | 233.6 | 233.5 |
| 17.5° | 730.1 | 696.4 | 611.8 | 515.3 | 418.6 | 332.3 | 263.1 | 212.9 | 182.4 | 168.3 | 167.4 |
| 20° | 734.3 | 692.1 | 587.9 | 472.2 | 361.7 | 270.3 | 206.0 | 166.7 | 147.5 | 139.9 | 139.2 |
| 22.5° | 740.5 | 688.5 | 563.0 | 427.0 | 306.1 | 220.2 | 169.4 | 143.0 | 132.9 | 128.8 | 128.4 |
| 25° | 750.4 | 686.6 | 536.6 | 379.7 | 255.8 | 184.2 | 147.5 | 131.3 | 125.5 | 122.8 | 122.4 |
| 27.5° | 766.9 | 689.2 | 511.8 | 333.8 | 215.1 | 159.8 | 135.3 | 125.5 | 121.1 | 118.8 | 118.4 |
| 30° | 788.3 | 697.4 | 485.7 | 290.3 | 183.3 | 143.3 | 127.7 | 121.5 | 117.9 | 115.5 | 115.5 |
| 32.5° | 823.7 | 711.4 | 458.1 | 252.7 | 160.6 | 131.8 | 122.2 | 117.9 | 115.1 | 113.1 | 112.8 |
| 35° | 875.9 | 737.5 | 432.5 | 221.4 | 144.4 | 123.5 | 117.4 | 114.3 | 112.1 | 111.0 | 111.0 |
| 37.5° | 952.1 | 778.8 | 409.8 | 199.1 | 134.4 | 117.9 | 112.8 | 110.4 | 109.1 | 109.1 | 109.1 |
| 40° | 1054.3 | 836.0 | 391.4 | 184.2 | 128.8 | 113.9 | 109.5 | 107.5 | 106.7 | 107.0 | 107.0 |
| 42.5° | 1180.5 | 910.2 | 379.2 | 173.7 | 126.2 | 111.5 | 107.0 | 105.5 | 104.7 | 104.4 | 104.7 |
| 45° | 1324.2 | 994.5 | 377.7 | 165.9 | 123.5 | 110.0 | 105.5 | 103.8 | 102.1 | 101.1 | 101.1 |
| 47.5° | 1464.1 | 1080.1 | 388.7 | 163.3 | 120.6 | 108.1 | 104.1 | 102.4 | 100.0 | 97.6 | 97.6 |
| 50° | 1587.6 | 1153.0 | 403.3 | 164.4 | 119.6 | 105.5 | 101.9 | 101.1 | 97.3 | 94.7 | 94.4 |
| 52.5° | 1685.8 | 1208.9 | 415.5 | 167.5 | 120.6 | 103.6 | 99.3 | 99.5 | 95.5 | 92.5 | 92.3 |
| 55° | 1764.5 | 1245.8 | 412.2 | 170.8 | 123.0 | 102.4 | 96.8 | 97.3 | 94.2 | 91.3 | 91.3 |
| 57.5° | 1798.9 | 1232.1 | 376.7 | 168.2 | 124.9 | 102.8 | 95.0 | 97.1 | 94.4 | 91.7 | 91.7 |
| 60° | 1724.9 | 1111.4 | 310.4 | 156.3 | 122.4 | 101.9 | 94.2 | 98.2 | 97.9 | 95.3 | 95.0 |
| 62.5° | 1501.3 | 894.9 | 240.7 | 139.0 | 114.3 | 97.9 | 92.0 | 97.9 | 100.9 | 100.0 | 99.8 |
| 65° | 1157.1 | 637.4 | 183.9 | 120.4 | 102.9 | 91.3 | 86.4 | 91.7 | 95.8 | 96.8 | 96.6 |
| 67.5° | 751.2 | 390.7 | 141.8 | 102.8 | 90.5 | 83.5 | 79.2 | 81.7 | 82.5 | 82.5 | 81.9 |
| 70° | 369.3 | 210.3 | 112.8 | 86.4 | 77.7 | 75.3 | 72.9 | 71.5 | 70.2 | 69.1 | 69.1 |
| 72.5° | 182.3 | 137.4 | 92.9 | 73.1 | 67.0 | 65.8 | 65.3 | 63.8 | 62.7 | 61.4 | 60.8 |
| 75° | 134.7 | 111.7 | 79.1 | 61.7 | 57.6 | 56.6 | 57.6 | 56.4 | 56.1 | 54.9 | 54.4 |
| 77.5° | 110.8 | 95.3 | 68.0 | 52.8 | 49.3 | 47.5 | 49.0 | 49.3 | 49.6 | 48.0 | 47.5 |
| 80° | 89.9 | 80.6 | 56.9 | 43.7 | 40.6 | 39.3 | 40.3 | 42.4 | 42.9 | 40.6 | 39.4 |
| 82.5° | 64.9 | 65.8 | 46.0 | 34.1 | 31.5 | 30.5 | 32.6 | 35.3 | 35.8 | 32.2 | 31.5 |
| 85° | 54.4 | 54.9 | 35.3 | 24.3 | 21.6 | 20.0 | 23.4 | 26.1 | 27.9 | 24.6 | 23.7 |
| 87.5° | 22.6 | 32.2 | 20.3 | 13.7 | 11.9 | 10.4 | 12.5 | 13.8 | 16.8 | 15.5 | 15.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)