

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: P200002

Luminaire Tested: **GWC-AF-02-LED-E1-SLL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SLL-7030-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11582.6 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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

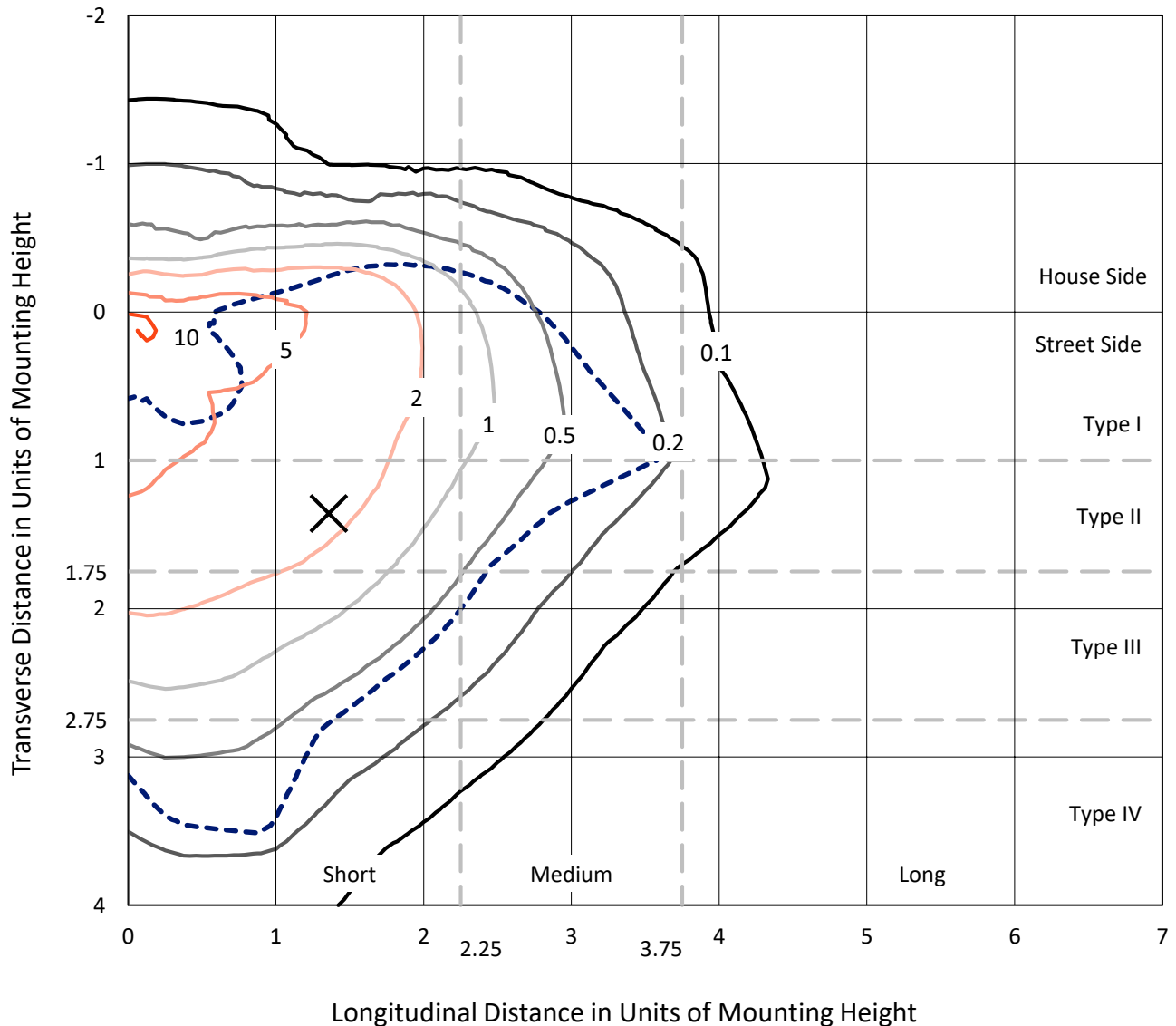


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Iso-Footcandle Lines of Horizontal Illumination

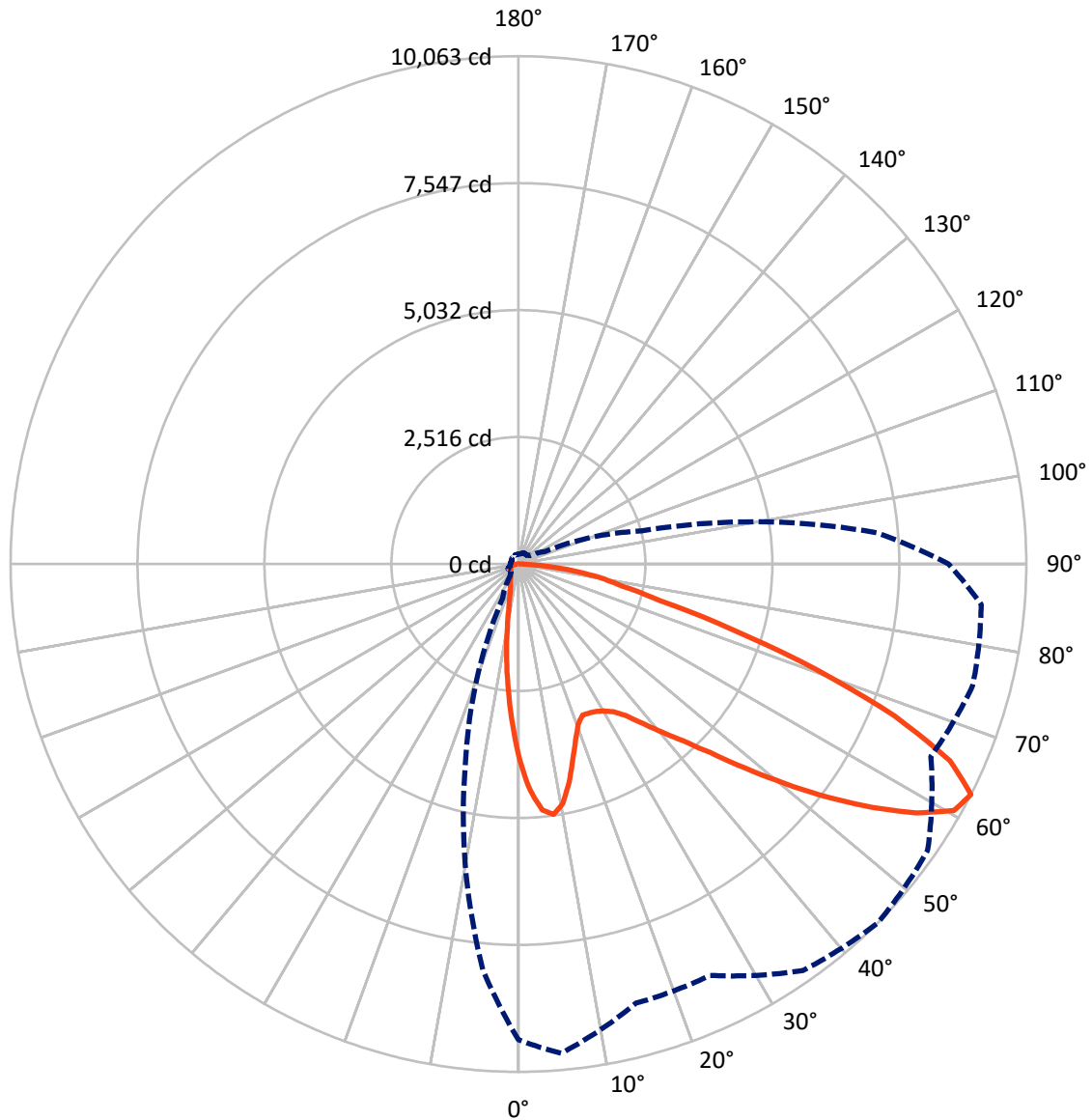
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1916.7 | 0.0 | 1916.7 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 9665.8 | 0.0 | 9665.8 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 11582.6 | 0.0 | 11582.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 284.9 | 2.5 |
| 10°-20° | 522.4 | 4.5 |
| 20°-30° | 761.6 | 6.6 |
| 30°-40° | 1173.0 | 10.1 |
| 40°-50° | 1726.3 | 14.9 |
| 50°-60° | 2532.1 | 21.9 |
| 60°-70° | 2830.6 | 24.4 |
| 70°-80° | 1385.8 | 12.0 |
| 80°-90° | 365.9 | 3.2 |
| 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° | 11582.6 | 100.0 |
| 0°-180° | 11582.6 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P200002

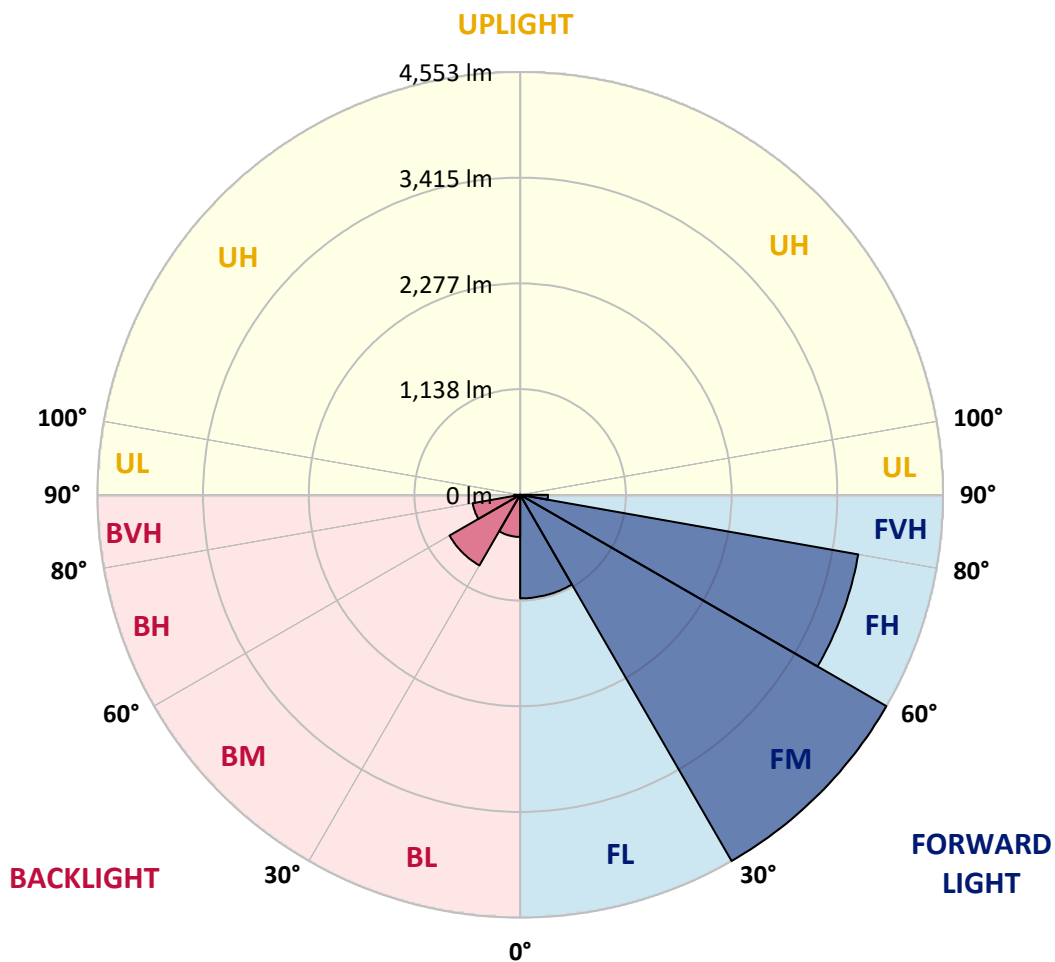
CATALOG NUMBER: GWC-AF-02-LED-E1-SLL-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1115.4 | 9.6 | | | |
| FM (30°-60°) | 4553.2 | 39.3 | | | |
| FH (60°-80°) | 3696.8 | 31.9 | | | G2/5000 |
| FVH (80°-90°) | 300.5 | 2.6 | | | G3/500 |
| BL (0°-30°) | 453.5 | 3.9 | B1/500 | | |
| BM (30°-60°) | 878.2 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 519.6 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 65.4 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P200002

CATALOG NUMBER: GWC-AF-02-LED-E1-SLL-7030-1200

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0° | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 |
| 2.5° | 4066.0 | 4131.0 | 4257.8 | 4352.6 | 4467.8 | 4494.5 | 4531.4 | 4495.2 | 4430.9 | 4345.6 | 4317.5 |
| 5° | 3823.4 | 3962.3 | 4269.8 | 4540.4 | 4781.0 | 4893.0 | 4924.4 | 4832.0 | 4645.4 | 4400.3 | 4250.6 |
| 7.5° | 3434.4 | 3631.8 | 4048.2 | 4446.8 | 4801.4 | 5010.9 | 5005.8 | 4791.2 | 4448.1 | 4048.8 | 3808.8 |
| 10° | 3098.9 | 3324.2 | 3801.7 | 4247.5 | 4623.8 | 4826.8 | 4748.6 | 4474.1 | 4064.8 | 3605.0 | 3344.7 |
| 12.5° | 2911.0 | 3132.0 | 3616.5 | 4064.1 | 4378.7 | 4448.7 | 4388.8 | 4120.1 | 3734.3 | 3269.5 | 3041.6 |
| 15° | 2878.6 | 3121.1 | 3542.6 | 3906.9 | 4083.2 | 4022.1 | 3950.9 | 3830.4 | 3557.9 | 3161.3 | 2923.8 |
| 17.5° | 3019.3 | 3286.7 | 3627.3 | 3797.3 | 3767.4 | 3661.1 | 3640.7 | 3654.0 | 3588.5 | 3281.6 | 3007.8 |
| 20° | 3289.2 | 3610.2 | 3829.2 | 3745.7 | 3527.3 | 3380.9 | 3386.1 | 3590.4 | 3784.6 | 3586.6 | 3274.0 |
| 22.5° | 3668.1 | 4034.2 | 4120.1 | 3773.2 | 3426.2 | 3252.3 | 3294.3 | 3625.4 | 4097.2 | 4032.3 | 3633.1 |
| 25° | 4158.3 | 4491.9 | 4430.3 | 3872.4 | 3436.3 | 3268.3 | 3302.0 | 3746.4 | 4466.5 | 4478.0 | 4077.4 |
| 27.5° | 4633.3 | 4942.8 | 4690.6 | 4004.3 | 3478.4 | 3305.7 | 3350.3 | 3936.8 | 4819.2 | 4961.9 | 4585.6 |
| 30° | 5003.8 | 5219.1 | 4793.8 | 4124.6 | 3561.1 | 3379.1 | 3434.4 | 4117.7 | 4979.7 | 5288.4 | 4976.5 |
| 32.5° | 5310.8 | 5465.4 | 4958.0 | 4273.5 | 3713.2 | 3494.2 | 3591.7 | 4337.3 | 5210.8 | 5599.2 | 5359.1 |
| 35° | 5703.0 | 5746.9 | 5162.4 | 4439.8 | 3948.2 | 3694.8 | 3815.8 | 4552.5 | 5431.2 | 5913.1 | 5736.1 |
| 37.5° | 6162.7 | 6106.1 | 5355.4 | 4667.1 | 4252.0 | 4008.7 | 4108.7 | 4788.8 | 5612.6 | 6269.1 | 6121.4 |
| 40° | 6617.3 | 6481.0 | 5597.4 | 5019.8 | 4695.1 | 4378.7 | 4497.1 | 5040.7 | 5782.0 | 6625.6 | 6497.6 |
| 42.5° | 7003.8 | 6801.9 | 5836.1 | 5407.6 | 5107.7 | 4786.7 | 4928.1 | 5294.9 | 5943.7 | 6930.0 | 6824.3 |
| 45° | 7289.7 | 7038.8 | 6063.4 | 5780.1 | 5676.2 | 5329.2 | 5396.1 | 5585.9 | 6118.7 | 7184.1 | 7092.9 |
| 47.5° | 7545.0 | 7277.0 | 6320.6 | 6155.6 | 6173.5 | 6034.7 | 5927.1 | 5924.6 | 6325.1 | 7391.6 | 7347.0 |
| 50° | 7886.9 | 7607.4 | 6597.0 | 6542.9 | 6919.7 | 6827.4 | 6590.0 | 6320.0 | 6586.1 | 7627.2 | 7622.0 |
| 52.5° | 8358.2 | 8130.7 | 6934.3 | 6960.0 | 7616.4 | 7676.8 | 7382.6 | 6795.0 | 6994.9 | 8059.5 | 8028.9 |
| 55° | 8915.2 | 8782.8 | 7394.1 | 7439.4 | 8470.8 | 8514.0 | 8221.9 | 7388.9 | 7595.9 | 8685.3 | 8600.7 |
| 57.5° | 9350.1 | 9322.1 | 7898.4 | 8014.9 | 9108.7 | 9303.7 | 9034.8 | 8076.7 | 8273.4 | 9212.5 | 8999.9 |
| 60° | 9523.2 | 9658.8 | 8435.2 | 8595.5 | 9699.0 | 9914.8 | 9679.3 | 8680.8 | 8873.8 | 9430.9 | 8972.5 |
| 62.5° | 9429.6 | 9732.7 | 9006.9 | 8993.5 | 9830.8 | 10063.3 | 9897.7 | 9017.0 | 9318.8 | 9205.5 | 8518.5 |
| 65° | 8997.4 | 9467.2 | 9338.6 | 8891.0 | 9380.0 | 9399.1 | 9345.6 | 8866.8 | 9423.9 | 8493.0 | 7641.1 |
| 67.5° | 8055.6 | 8731.8 | 8901.8 | 8012.3 | 8163.9 | 8039.8 | 7949.9 | 8044.2 | 8876.3 | 7425.3 | 6421.8 |
| 70° | 6561.3 | 7578.8 | 7660.2 | 6408.5 | 6339.8 | 6256.3 | 6077.4 | 6595.0 | 7795.8 | 6085.6 | 5095.7 |
| 72.5° | 4824.4 | 5894.0 | 6144.2 | 4700.3 | 4381.9 | 4399.0 | 4257.8 | 4970.2 | 6338.4 | 4520.6 | 3804.3 |
| 75° | 3300.7 | 4267.8 | 4807.2 | 3279.8 | 2897.7 | 2904.6 | 2886.8 | 3521.7 | 5048.5 | 3144.7 | 2846.8 |
| 77.5° | 2411.3 | 3049.2 | 3625.4 | 2205.0 | 2140.6 | 2101.2 | 2091.5 | 2464.1 | 3870.5 | 2283.2 | 2210.7 |
| 80° | 1935.0 | 2252.7 | 2435.4 | 1528.1 | 1643.4 | 1640.2 | 1587.3 | 1694.3 | 2527.7 | 1670.1 | 1653.5 |
| 82.5° | 1342.1 | 1731.2 | 1973.1 | 1197.7 | 1109.2 | 1090.7 | 1103.4 | 1262.0 | 1786.6 | 1141.6 | 1085.6 |
| 85° | 708.0 | 1149.9 | 1954.1 | 1061.4 | 658.4 | 525.3 | 653.3 | 1033.4 | 1547.8 | 604.9 | 529.7 |
| 87.5° | 90.4 | 332.3 | 1293.8 | 423.4 | 259.8 | 140.1 | 310.1 | 582.0 | 993.9 | 123.6 | 107.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P200002

CATALOG NUMBER: GWC-AF-02-LED-E1-SLL-7030-1200

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 |
| 2.5° | 4245.6 | 4160.9 | 4050.1 | 3947.6 | 3841.2 | 3735.6 | 3597.4 | 3510.8 | 3451.0 | 3439.5 | 3414.1 |
| 5° | 4142.4 | 3861.0 | 3648.3 | 3464.3 | 3297.6 | 3062.0 | 2931.4 | 2823.2 | 2765.3 | 2759.5 | 2745.4 |
| 7.5° | 3666.8 | 3278.5 | 2991.3 | 2730.8 | 2494.6 | 2304.3 | 2094.2 | 1996.0 | 1956.0 | 1965.6 | 1975.1 |
| 10° | 3172.2 | 2737.8 | 2408.1 | 2141.9 | 1933.7 | 1773.3 | 1604.5 | 1490.6 | 1411.6 | 1395.7 | 1392.5 |
| 12.5° | 2810.4 | 2334.3 | 2013.8 | 1826.0 | 1665.0 | 1514.2 | 1335.1 | 1200.9 | 1098.3 | 1063.3 | 1039.7 |
| 15° | 2657.6 | 2136.8 | 1801.2 | 1598.8 | 1421.1 | 1229.5 | 1063.3 | 922.5 | 828.4 | 797.8 | 780.6 |
| 17.5° | 2690.1 | 2082.1 | 1654.8 | 1395.7 | 1168.3 | 968.5 | 759.0 | 638.6 | 582.0 | 567.3 | 567.3 |
| 20° | 2860.7 | 2071.9 | 1533.8 | 1208.5 | 925.1 | 693.4 | 521.5 | 452.7 | 434.2 | 432.3 | 437.5 |
| 22.5° | 3100.1 | 2107.5 | 1443.5 | 1046.1 | 718.8 | 506.2 | 406.2 | 380.8 | 372.5 | 374.4 | 380.1 |
| 25° | 3456.8 | 2227.8 | 1377.9 | 901.6 | 564.1 | 414.5 | 362.3 | 347.0 | 343.2 | 348.3 | 355.3 |
| 27.5° | 3879.5 | 2348.2 | 1337.2 | 792.6 | 476.3 | 378.8 | 344.5 | 328.6 | 331.0 | 337.5 | 343.8 |
| 30° | 4250.6 | 2446.9 | 1272.8 | 715.0 | 448.8 | 380.8 | 344.5 | 322.9 | 320.2 | 321.6 | 323.4 |
| 32.5° | 4583.7 | 2513.7 | 1197.7 | 641.2 | 387.1 | 338.0 | 321.6 | 318.4 | 304.4 | 299.3 | 299.9 |
| 35° | 4870.8 | 2513.7 | 1152.4 | 597.8 | 347.0 | 299.9 | 273.1 | 257.2 | 250.2 | 250.9 | 257.9 |
| 37.5° | 5147.8 | 2463.5 | 1130.2 | 573.7 | 325.4 | 285.2 | 261.6 | 247.7 | 238.0 | 236.2 | 237.5 |
| 40° | 5392.3 | 2390.1 | 1104.7 | 563.4 | 308.7 | 276.3 | 254.0 | 242.5 | 232.4 | 229.2 | 229.9 |
| 42.5° | 5588.4 | 2331.0 | 1076.6 | 550.1 | 298.6 | 270.0 | 249.0 | 238.7 | 227.3 | 224.1 | 223.4 |
| 45° | 5800.5 | 2311.3 | 1039.7 | 523.4 | 303.7 | 270.6 | 247.7 | 236.9 | 225.4 | 221.6 | 220.2 |
| 47.5° | 6079.9 | 2373.0 | 1001.6 | 491.5 | 314.5 | 273.8 | 249.5 | 236.9 | 224.7 | 221.6 | 220.2 |
| 50° | 6432.1 | 2518.2 | 953.2 | 445.0 | 303.7 | 282.7 | 249.0 | 234.9 | 224.7 | 221.6 | 219.1 |
| 52.5° | 6884.1 | 2714.3 | 889.5 | 391.5 | 297.3 | 304.4 | 247.7 | 231.1 | 221.6 | 217.1 | 212.6 |
| 55° | 7433.6 | 2874.7 | 813.8 | 347.7 | 282.7 | 298.6 | 245.8 | 226.7 | 216.5 | 210.1 | 206.3 |
| 57.5° | 7836.0 | 2932.7 | 716.3 | 319.0 | 262.3 | 289.1 | 243.2 | 220.9 | 210.1 | 205.0 | 200.0 |
| 60° | 7756.5 | 2820.6 | 634.1 | 301.1 | 250.2 | 261.0 | 241.4 | 215.9 | 204.5 | 200.6 | 196.1 |
| 62.5° | 7119.0 | 2527.7 | 581.4 | 293.0 | 242.5 | 238.0 | 243.2 | 210.8 | 199.3 | 195.5 | 194.2 |
| 65° | 6163.4 | 2095.4 | 560.3 | 290.9 | 236.2 | 224.7 | 226.0 | 205.0 | 193.6 | 190.3 | 189.1 |
| 67.5° | 5084.2 | 1691.2 | 541.8 | 297.3 | 228.0 | 215.2 | 208.8 | 197.4 | 187.8 | 184.6 | 182.1 |
| 70° | 4009.4 | 1406.5 | 533.5 | 293.5 | 217.8 | 205.6 | 198.7 | 189.1 | 180.9 | 177.6 | 175.7 |
| 72.5° | 3228.7 | 1188.0 | 529.2 | 289.7 | 204.5 | 193.0 | 186.5 | 178.3 | 169.4 | 168.0 | 166.2 |
| 75° | 2732.1 | 934.0 | 484.6 | 277.6 | 189.1 | 177.6 | 173.1 | 165.5 | 156.7 | 156.7 | 155.3 |
| 77.5° | 2107.5 | 675.6 | 403.0 | 245.8 | 173.1 | 160.5 | 156.7 | 150.9 | 140.7 | 142.6 | 142.0 |
| 80° | 1556.7 | 440.7 | 315.2 | 203.8 | 153.4 | 141.4 | 139.5 | 133.8 | 122.9 | 125.4 | 125.4 |
| 82.5° | 1066.5 | 289.1 | 226.7 | 166.8 | 131.1 | 119.7 | 119.7 | 113.9 | 101.8 | 103.1 | 107.0 |
| 85° | 535.5 | 198.7 | 169.4 | 129.3 | 101.8 | 96.1 | 96.1 | 91.7 | 79.5 | 80.2 | 85.3 |
| 87.5° | 163.1 | 119.7 | 112.1 | 92.4 | 73.2 | 72.0 | 68.8 | 65.5 | 57.9 | 57.3 | 60.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P200002

CATALOG NUMBER: GWC-AF-02-LED-E1-SLL-7030-1200

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 | 3913.2 |
| 2.5° | 3375.2 | 3338.9 | 3294.9 | 3198.2 | 3165.7 | 3163.8 | 3193.1 | 3162.5 | 3221.1 | 3196.3 | 3223.7 |
| 5° | 2721.9 | 2686.2 | 2637.3 | 2513.7 | 2438.5 | 2387.7 | 2363.5 | 2292.2 | 2343.7 | 2306.1 | 2337.4 |
| 7.5° | 2001.8 | 2010.1 | 1977.6 | 1905.1 | 1741.4 | 1659.2 | 1610.9 | 1567.6 | 1605.1 | 1601.3 | 1661.2 |
| 10° | 1407.1 | 1429.4 | 1406.5 | 1333.3 | 1200.9 | 1155.6 | 1164.6 | 1181.7 | 1230.8 | 1256.3 | 1348.6 |
| 12.5° | 1013.1 | 1011.7 | 997.1 | 931.6 | 844.2 | 849.4 | 885.6 | 915.6 | 960.8 | 987.4 | 1081.7 |
| 15° | 756.4 | 744.9 | 738.6 | 685.0 | 635.5 | 646.3 | 664.1 | 667.2 | 695.9 | 711.9 | 788.2 |
| 17.5° | 571.8 | 577.6 | 584.5 | 546.3 | 508.7 | 501.7 | 487.8 | 470.6 | 478.8 | 482.0 | 520.2 |
| 20° | 454.0 | 476.9 | 494.1 | 467.3 | 429.2 | 408.7 | 390.9 | 379.4 | 379.4 | 378.8 | 389.6 |
| 22.5° | 396.7 | 413.2 | 431.7 | 413.2 | 378.8 | 361.0 | 350.8 | 341.9 | 340.7 | 340.7 | 350.8 |
| 25° | 365.5 | 377.6 | 395.4 | 382.6 | 357.2 | 343.8 | 334.3 | 322.9 | 318.4 | 317.1 | 324.1 |
| 27.5° | 350.1 | 355.3 | 364.2 | 352.7 | 331.0 | 324.7 | 322.2 | 311.9 | 306.3 | 303.0 | 310.1 |
| 30° | 324.1 | 322.9 | 323.4 | 311.9 | 294.8 | 294.1 | 298.6 | 300.6 | 298.6 | 297.9 | 308.7 |
| 32.5° | 299.9 | 297.3 | 296.7 | 286.5 | 270.6 | 266.8 | 270.6 | 274.5 | 278.8 | 285.2 | 297.9 |
| 35° | 269.4 | 275.7 | 279.4 | 270.6 | 251.6 | 240.1 | 235.6 | 228.6 | 224.7 | 224.7 | 239.4 |
| 37.5° | 245.2 | 259.8 | 265.5 | 257.2 | 236.2 | 220.2 | 212.6 | 211.4 | 212.1 | 214.5 | 228.6 |
| 40° | 236.9 | 247.7 | 252.8 | 244.5 | 223.4 | 208.8 | 204.5 | 203.1 | 204.5 | 208.2 | 222.3 |
| 42.5° | 231.7 | 239.4 | 238.7 | 228.6 | 211.4 | 201.1 | 198.7 | 197.4 | 198.7 | 202.4 | 217.8 |
| 45° | 227.3 | 232.4 | 227.3 | 215.2 | 199.3 | 194.2 | 194.8 | 194.2 | 195.5 | 199.3 | 213.9 |
| 47.5° | 223.4 | 225.4 | 219.1 | 206.9 | 190.3 | 189.1 | 191.6 | 193.6 | 194.8 | 198.0 | 213.3 |
| 50° | 217.8 | 217.8 | 212.1 | 199.3 | 182.7 | 183.3 | 186.5 | 190.9 | 191.6 | 195.5 | 207.6 |
| 52.5° | 210.8 | 210.1 | 206.3 | 194.2 | 176.4 | 178.3 | 178.3 | 183.3 | 184.6 | 189.1 | 201.8 |
| 55° | 205.0 | 203.8 | 201.8 | 190.3 | 170.7 | 173.8 | 171.9 | 173.8 | 177.0 | 181.5 | 195.5 |
| 57.5° | 200.0 | 197.4 | 197.4 | 187.2 | 166.2 | 167.5 | 163.1 | 165.5 | 169.4 | 173.1 | 187.8 |
| 60° | 194.8 | 192.3 | 193.6 | 182.7 | 159.2 | 157.9 | 156.0 | 161.0 | 162.4 | 166.8 | 181.5 |
| 62.5° | 189.1 | 187.2 | 187.8 | 177.6 | 154.0 | 150.9 | 150.9 | 155.3 | 156.0 | 162.4 | 176.4 |
| 65° | 184.6 | 182.1 | 181.5 | 172.5 | 148.4 | 144.5 | 146.4 | 148.4 | 149.5 | 156.0 | 169.4 |
| 67.5° | 180.2 | 175.2 | 175.2 | 168.0 | 142.0 | 138.2 | 142.0 | 141.4 | 143.2 | 149.0 | 159.8 |
| 70° | 174.5 | 167.5 | 168.0 | 164.9 | 135.6 | 131.1 | 134.4 | 133.8 | 134.9 | 138.8 | 149.5 |
| 72.5° | 165.5 | 159.8 | 161.0 | 159.8 | 129.3 | 122.9 | 124.1 | 124.1 | 124.1 | 127.4 | 138.8 |
| 75° | 154.0 | 149.5 | 153.4 | 156.7 | 121.6 | 112.6 | 113.9 | 113.9 | 112.1 | 113.9 | 128.0 |
| 77.5° | 140.1 | 137.5 | 150.2 | 145.9 | 112.6 | 101.8 | 101.8 | 100.6 | 96.8 | 99.3 | 114.6 |
| 80° | 124.8 | 122.9 | 138.8 | 122.3 | 102.4 | 88.5 | 87.2 | 84.0 | 80.2 | 82.2 | 97.5 |
| 82.5° | 108.9 | 107.0 | 116.5 | 93.6 | 88.5 | 73.2 | 70.0 | 64.4 | 60.5 | 62.4 | 76.4 |
| 85° | 89.1 | 89.1 | 89.8 | 70.7 | 67.5 | 56.0 | 52.2 | 44.6 | 40.1 | 41.4 | 54.7 |
| 87.5° | 63.7 | 65.5 | 60.5 | 48.4 | 40.1 | 31.2 | 28.6 | 24.1 | 20.3 | 23.6 | 28.6 |
| 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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| 35° | 256.5 | 280.1 | 317.1 | 552.7 | 1077.3 | 2662.1 | 4954.9 | 5703.0 |
| 37.5° | 244.5 | 268.0 | 294.8 | 544.9 | 1091.9 | 2735.3 | 5335.6 | 6162.7 |
| 40° | 236.9 | 258.5 | 281.5 | 540.7 | 1105.9 | 2802.2 | 5708.7 | 6617.3 |
| 42.5° | 231.7 | 251.6 | 280.1 | 525.3 | 1113.0 | 2862.0 | 6015.6 | 7003.8 |
| 45° | 231.1 | 251.6 | 285.2 | 510.0 | 1123.8 | 2926.3 | 6272.9 | 7289.7 |
| 47.5° | 231.7 | 259.8 | 275.7 | 491.5 | 1123.8 | 3033.9 | 6574.6 | 7545.0 |
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| 55° | 224.7 | 262.3 | 231.7 | 365.5 | 999.6 | 3913.8 | 8086.9 | 8915.2 |
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| 65° | 180.2 | 182.1 | 201.1 | 298.6 | 712.5 | 3533.1 | 7378.9 | 8997.4 |
| 67.5° | 164.9 | 173.8 | 193.0 | 319.6 | 714.3 | 2828.9 | 6343.6 | 8055.6 |
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| 72.5° | 144.5 | 152.9 | 172.5 | 332.3 | 686.3 | 1532.0 | 3865.5 | 4824.4 |
| 75° | 131.7 | 139.5 | 157.3 | 289.7 | 568.5 | 1062.6 | 2956.9 | 3300.7 |
| 77.5° | 117.1 | 122.9 | 138.2 | 223.4 | 422.2 | 680.0 | 2219.6 | 2411.3 |
| 80° | 100.0 | 103.1 | 116.0 | 163.7 | 289.1 | 425.3 | 1756.1 | 1935.0 |
| 82.5° | 80.2 | 81.5 | 89.8 | 122.9 | 187.8 | 273.1 | 1175.9 | 1342.1 |
| 85° | 56.7 | 56.7 | 61.7 | 89.1 | 128.0 | 173.1 | 638.6 | 708.0 |
| 87.5° | 26.8 | 27.5 | 27.5 | 49.0 | 66.8 | 87.9 | 147.1 | 90.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)