

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: STREETWORKS

Report Number: P192823

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22774 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

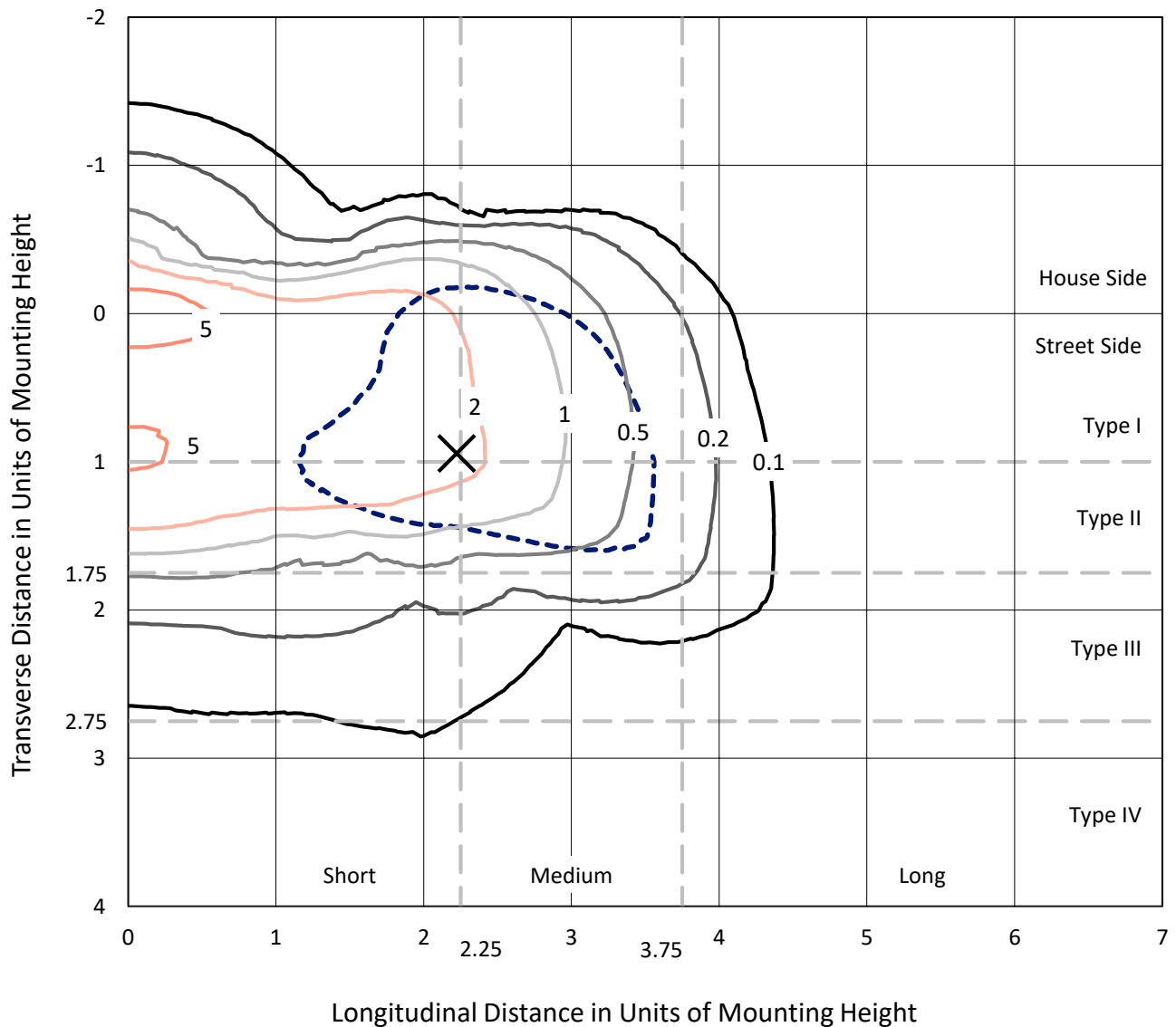
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

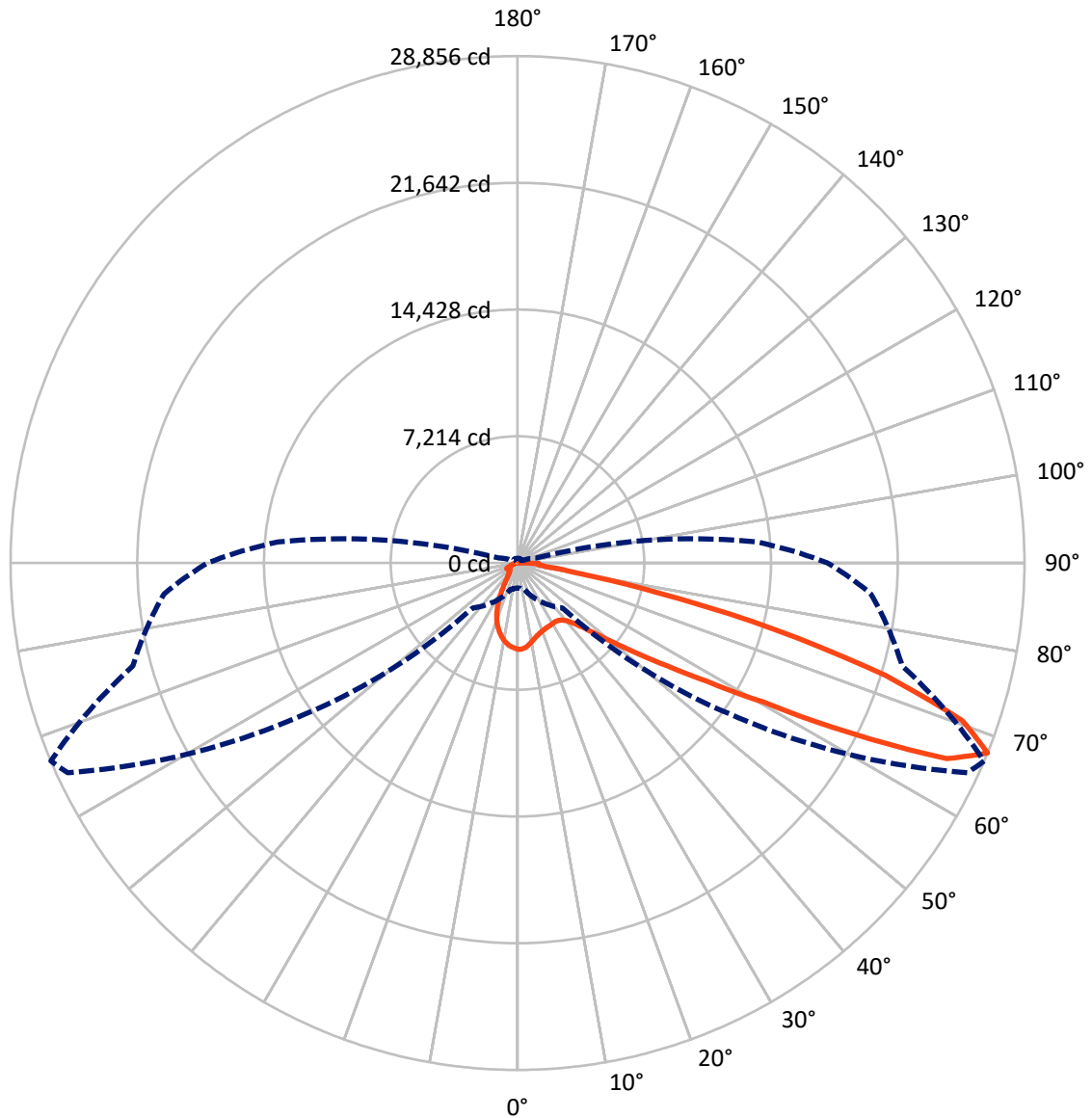
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3773.4 | 0.0 | 3773.4 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 19000.6 | 0.0 | 19000.6 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 22774.0 | 0.0 | 22774.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 419.1 | 1.8 |
| 10°-20° | 969.7 | 4.3 |
| 20°-30° | 1314.5 | 5.8 |
| 30°-40° | 1868.7 | 8.2 |
| 40°-50° | 3126.3 | 13.7 |
| 50°-60° | 4945.8 | 21.7 |
| 60°-70° | 6300.5 | 27.7 |
| 70°-80° | 3300.2 | 14.5 |
| 80°-90° | 529.3 | 2.3 |
| 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° | 22774.0 | 100.0 |
| 0°-180° | 22774.0 | 100.0 |

Coefficient of Utilization



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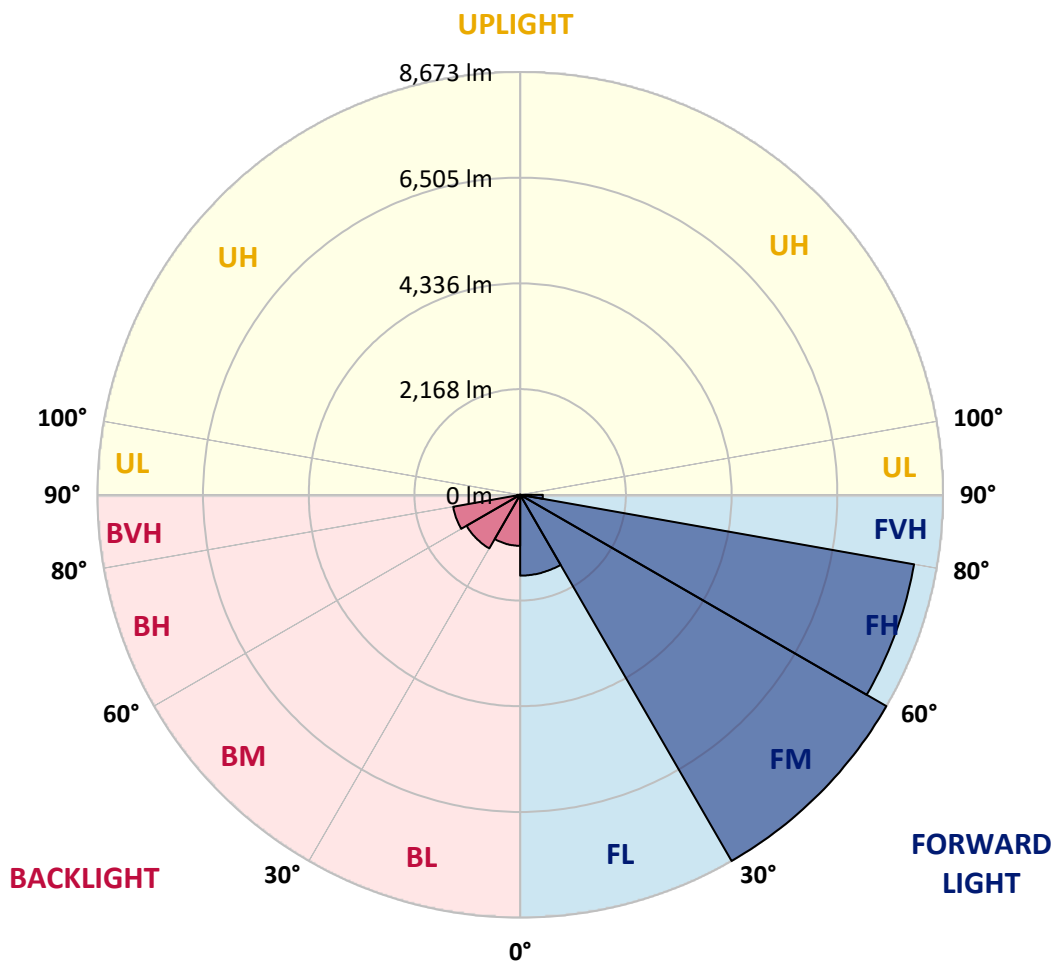
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1657.4 | 7.3 | | | |
| FM (30°-60°) | 8672.8 | 38.1 | | | |
| FH (60°-80°) | 8205.0 | 36.0 | | | G4/12000 |
| FVH (80°-90°) | 465.4 | 2.0 | | | G3/500 |
| BL (0°-30°) | 1045.9 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 1268.0 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 1395.6 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 63.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4912.3 | 4912.3 | 4912.3 | 4912.3 | 4912.3 | 4912.3 | 4912.3 | 4912.3 | 4912.3 | 4912.3 | 4912.3 |
| 2.5° | 4710.1 | 4718.1 | 4742.7 | 4758.5 | 4829.2 | 4859.6 | 4880.8 | 4902.1 | 4905.5 | 4915.7 | 4905.5 |
| 5° | 4216.0 | 4232.8 | 4278.9 | 4330.6 | 4467.6 | 4575.3 | 4688.8 | 4806.8 | 4828.0 | 4904.4 | 4925.7 |
| 7.5° | 3833.1 | 3828.6 | 3866.6 | 3928.5 | 4069.0 | 4218.3 | 4417.1 | 4651.7 | 4697.8 | 4869.5 | 4952.7 |
| 10° | 3553.4 | 3550.1 | 3590.5 | 3654.5 | 3788.1 | 3929.6 | 4154.2 | 4475.4 | 4540.6 | 4814.6 | 4978.5 |
| 12.5° | 3346.7 | 3347.8 | 3388.3 | 3459.0 | 3594.9 | 3737.5 | 3965.6 | 4304.7 | 4387.9 | 4750.6 | 5005.5 |
| 15° | 3209.7 | 3218.7 | 3251.2 | 3326.5 | 3459.0 | 3601.6 | 3825.1 | 4176.7 | 4269.9 | 4700.0 | 5035.9 |
| 17.5° | 3163.7 | 3178.3 | 3189.5 | 3244.6 | 3358.0 | 3500.5 | 3719.6 | 4082.4 | 4181.2 | 4665.3 | 5062.7 |
| 20° | 3206.3 | 3223.2 | 3201.9 | 3221.0 | 3292.8 | 3418.6 | 3636.4 | 4008.1 | 4109.3 | 4625.9 | 5066.2 |
| 22.5° | 3389.4 | 3405.2 | 3342.2 | 3287.2 | 3282.7 | 3359.0 | 3568.0 | 3949.8 | 4054.3 | 4596.7 | 5067.2 |
| 25° | 3711.7 | 3721.8 | 3616.3 | 3488.2 | 3363.5 | 3337.8 | 3519.7 | 3909.4 | 4020.6 | 4570.9 | 5045.9 |
| 27.5° | 4107.0 | 4114.9 | 3993.7 | 3805.0 | 3554.5 | 3388.3 | 3502.9 | 3885.8 | 4001.5 | 4548.5 | 5010.0 |
| 30° | 4587.7 | 4624.8 | 4461.9 | 4223.9 | 3858.8 | 3537.7 | 3536.5 | 3873.5 | 3980.1 | 4510.2 | 4939.3 |
| 32.5° | 5079.7 | 5095.3 | 4983.1 | 4741.7 | 4268.8 | 3800.5 | 3630.9 | 3882.4 | 3974.6 | 4464.3 | 4849.4 |
| 35° | 5578.2 | 5598.5 | 5525.5 | 5331.2 | 4829.2 | 4185.7 | 3815.0 | 3935.2 | 4009.4 | 4448.5 | 4786.5 |
| 37.5° | 6224.1 | 6250.9 | 6149.8 | 5925.3 | 5510.9 | 4707.9 | 4121.7 | 4067.7 | 4116.1 | 4493.4 | 4767.4 |
| 40° | 7244.9 | 7232.5 | 6937.2 | 6602.5 | 6256.6 | 5376.1 | 4559.6 | 4292.4 | 4320.4 | 4638.3 | 4825.9 |
| 42.5° | 8433.0 | 8402.8 | 7894.1 | 7368.5 | 7076.4 | 6184.7 | 5139.1 | 4682.1 | 4676.4 | 4923.6 | 5031.4 |
| 45° | 9381.0 | 9356.3 | 8898.1 | 8250.0 | 8016.5 | 7105.6 | 5888.2 | 5262.7 | 5221.2 | 5376.1 | 5410.9 |
| 47.5° | 9894.2 | 9895.4 | 9631.4 | 9102.5 | 9096.8 | 8275.9 | 6850.7 | 6102.7 | 6030.9 | 6103.9 | 6066.8 |
| 50° | 9714.6 | 9738.2 | 9710.1 | 9541.6 | 10082.9 | 9810.0 | 8107.5 | 7274.2 | 7129.2 | 7201.1 | 7058.4 |
| 52.5° | 8845.3 | 8875.5 | 9041.9 | 9300.1 | 10497.3 | 11664.2 | 9953.7 | 8729.6 | 8561.1 | 8535.4 | 8376.9 |
| 55° | 7304.4 | 7341.4 | 7680.7 | 8382.6 | 10152.5 | 12909.6 | 12867.0 | 10584.9 | 10316.5 | 10072.8 | 10005.4 |
| 57.5° | 5034.6 | 5096.5 | 5642.2 | 6684.5 | 9037.3 | 13285.9 | 16336.1 | 13229.7 | 12683.9 | 11832.7 | 11848.4 |
| 60° | 2838.0 | 2909.9 | 3553.4 | 4500.2 | 6786.7 | 12877.1 | 18975.4 | 17235.7 | 16083.4 | 13893.5 | 14010.4 |
| 62.5° | 1804.8 | 1882.2 | 2370.8 | 3126.7 | 4072.2 | 10675.8 | 20056.8 | 22805.0 | 21341.6 | 16433.8 | 16548.4 |
| 65° | 1461.2 | 1494.7 | 1724.9 | 2580.8 | 2957.0 | 6431.8 | 19235.8 | 27392.7 | 26846.9 | 19658.2 | 19123.5 |
| 67.5° | 1426.3 | 1437.6 | 1556.6 | 2166.4 | 2835.8 | 3615.2 | 15343.4 | 28250.7 | 28856.1 | 22669.1 | 20196.1 |
| 70° | 1409.5 | 1448.8 | 1754.2 | 2067.5 | 2715.5 | 3049.1 | 9220.4 | 25899.1 | 26854.9 | 23456.5 | 18768.7 |
| 72.5° | 684.0 | 681.7 | 882.7 | 1869.9 | 3059.3 | 3162.5 | 4737.1 | 20955.3 | 21914.4 | 20321.9 | 15423.0 |
| 75° | 551.4 | 504.2 | 481.9 | 685.0 | 2941.3 | 3265.9 | 3018.9 | 14419.1 | 15113.1 | 13625.0 | 9481.0 |
| 77.5° | 523.4 | 467.2 | 427.9 | 429.1 | 1243.3 | 3463.5 | 2557.2 | 7980.6 | 8182.7 | 6154.3 | 2597.6 |
| 80° | 433.5 | 381.9 | 353.8 | 398.7 | 602.0 | 3298.4 | 2765.1 | 3611.8 | 3314.2 | 1511.6 | 864.8 |
| 82.5° | 301.0 | 274.0 | 266.1 | 334.7 | 481.9 | 2350.6 | 3215.4 | 1940.7 | 1627.3 | 756.9 | 533.4 |
| 85° | 192.1 | 164.0 | 181.9 | 243.7 | 375.1 | 1084.8 | 3311.9 | 1512.8 | 1202.8 | 480.6 | 301.0 |
| 87.5° | 88.7 | 71.9 | 89.8 | 134.7 | 244.8 | 374.0 | 3151.4 | 1699.2 | 1238.8 | 253.8 | 189.8 |
| 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: GAN-AF-05-LED-U-SL2-7030-800

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4912.3 | 4912.3 | 4912.3 | 4912.3 | 4912.3 | 4912.3 | 4912.3 | 4912.3 | 4912.3 | 4912.3 | 4912.3 |
| 2.5° | 4914.6 | 4893.1 | 4876.3 | 4844.9 | 4810.1 | 4776.4 | 4746.1 | 4707.9 | 4696.6 | 4686.5 | 4702.3 |
| 5° | 4930.3 | 4908.9 | 4847.2 | 4750.6 | 4643.8 | 4544.0 | 4444.0 | 4358.6 | 4305.8 | 4276.6 | 4293.5 |
| 7.5° | 4953.9 | 4923.6 | 4795.5 | 4618.1 | 4426.0 | 4250.8 | 4070.0 | 3925.1 | 3818.4 | 3768.0 | 3782.4 |
| 10° | 4975.2 | 4916.7 | 4707.9 | 4441.7 | 4160.9 | 3900.4 | 3615.2 | 3379.3 | 3204.1 | 3112.0 | 3134.4 |
| 12.5° | 4984.2 | 4891.0 | 4585.5 | 4221.6 | 3836.4 | 3454.6 | 3034.5 | 2681.9 | 2430.4 | 2338.2 | 2319.1 |
| 15° | 4993.1 | 4861.7 | 4450.6 | 3971.1 | 3444.4 | 2904.2 | 2315.8 | 1893.5 | 1684.6 | 1638.6 | 1628.4 |
| 17.5° | 4995.5 | 4811.2 | 4297.9 | 3699.4 | 2985.1 | 2249.5 | 1583.5 | 1315.2 | 1316.2 | 1390.4 | 1399.4 |
| 20° | 4971.9 | 4736.0 | 4112.6 | 3361.4 | 2434.9 | 1555.5 | 1087.1 | 1041.1 | 1210.7 | 1396.0 | 1418.4 |
| 22.5° | 4917.9 | 4636.0 | 3902.6 | 2967.2 | 1804.8 | 1024.2 | 841.2 | 891.7 | 1110.7 | 1337.6 | 1363.4 |
| 25° | 4849.4 | 4514.7 | 3654.5 | 2510.0 | 1195.0 | 732.2 | 705.3 | 767.1 | 915.3 | 1066.9 | 1081.5 |
| 27.5° | 4756.2 | 4371.0 | 3375.9 | 1986.7 | 776.1 | 603.1 | 621.0 | 662.6 | 723.3 | 790.6 | 797.4 |
| 30° | 4636.0 | 4199.2 | 3078.4 | 1448.8 | 586.2 | 542.5 | 568.2 | 590.8 | 616.6 | 654.8 | 658.1 |
| 32.5° | 4497.8 | 4034.1 | 2772.9 | 1000.7 | 520.0 | 511.0 | 531.2 | 542.5 | 562.6 | 586.2 | 588.5 |
| 35° | 4382.2 | 3876.8 | 2456.1 | 707.6 | 491.8 | 487.4 | 500.9 | 505.5 | 524.5 | 550.3 | 552.6 |
| 37.5° | 4316.0 | 3748.8 | 2129.4 | 570.6 | 472.8 | 466.1 | 473.9 | 473.9 | 500.9 | 539.0 | 544.6 |
| 40° | 4320.4 | 3678.0 | 1802.6 | 515.4 | 457.1 | 448.1 | 449.3 | 449.3 | 484.0 | 525.6 | 529.0 |
| 42.5° | 4442.8 | 3696.0 | 1512.8 | 494.2 | 444.6 | 434.7 | 429.1 | 432.3 | 461.6 | 488.5 | 490.8 |
| 45° | 4730.4 | 3822.9 | 1240.9 | 480.6 | 432.3 | 429.1 | 416.6 | 415.5 | 426.7 | 439.1 | 439.1 |
| 47.5° | 5202.1 | 4073.4 | 1056.7 | 471.7 | 422.3 | 421.2 | 406.6 | 391.9 | 390.8 | 395.3 | 395.3 |
| 50° | 5969.1 | 4504.6 | 933.3 | 461.6 | 415.5 | 406.6 | 389.7 | 367.2 | 359.4 | 362.7 | 362.7 |
| 52.5° | 7119.2 | 5274.0 | 886.1 | 448.1 | 401.0 | 386.3 | 367.2 | 344.8 | 338.0 | 339.1 | 339.1 |
| 55° | 8627.4 | 6455.4 | 879.3 | 432.3 | 385.2 | 361.6 | 346.0 | 329.1 | 321.2 | 323.4 | 323.4 |
| 57.5° | 10470.4 | 8089.4 | 999.5 | 407.6 | 363.9 | 336.9 | 327.9 | 316.8 | 311.1 | 314.4 | 313.3 |
| 60° | 12710.9 | 10227.8 | 1482.4 | 381.9 | 342.5 | 314.4 | 314.4 | 305.5 | 301.0 | 304.4 | 303.2 |
| 62.5° | 15291.7 | 12683.9 | 2084.4 | 362.7 | 320.0 | 296.5 | 301.0 | 296.5 | 292.0 | 294.2 | 293.2 |
| 65° | 17580.5 | 14284.3 | 1951.9 | 348.1 | 297.6 | 279.6 | 287.5 | 285.2 | 281.9 | 284.2 | 283.0 |
| 67.5° | 17646.8 | 13691.3 | 1096.1 | 332.4 | 276.3 | 262.8 | 274.0 | 272.9 | 270.6 | 272.9 | 271.7 |
| 70° | 15748.7 | 11560.8 | 617.7 | 303.2 | 253.8 | 242.5 | 258.3 | 257.2 | 254.9 | 259.4 | 258.3 |
| 72.5° | 12617.7 | 8389.4 | 451.5 | 267.2 | 231.3 | 221.2 | 239.2 | 238.0 | 238.0 | 244.8 | 241.5 |
| 75° | 7260.6 | 4317.1 | 360.5 | 229.1 | 207.8 | 200.0 | 215.7 | 216.8 | 218.9 | 228.1 | 221.2 |
| 77.5° | 2069.8 | 1345.4 | 294.2 | 194.3 | 178.5 | 175.3 | 190.8 | 193.2 | 194.3 | 204.5 | 195.5 |
| 80° | 769.3 | 619.9 | 242.5 | 162.8 | 146.0 | 147.2 | 161.7 | 165.1 | 166.2 | 176.4 | 165.1 |
| 82.5° | 490.8 | 408.8 | 196.5 | 125.7 | 114.5 | 113.4 | 131.4 | 135.9 | 135.9 | 137.0 | 130.2 |
| 85° | 286.4 | 244.8 | 148.3 | 91.0 | 80.9 | 77.5 | 97.7 | 105.6 | 102.1 | 100.0 | 95.5 |
| 87.5° | 192.1 | 168.5 | 91.0 | 50.6 | 43.8 | 41.5 | 57.3 | 63.0 | 60.6 | 57.3 | 53.9 |
| 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)