

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: P266655

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7027-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-AFL-7027-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8770.5 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 85
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

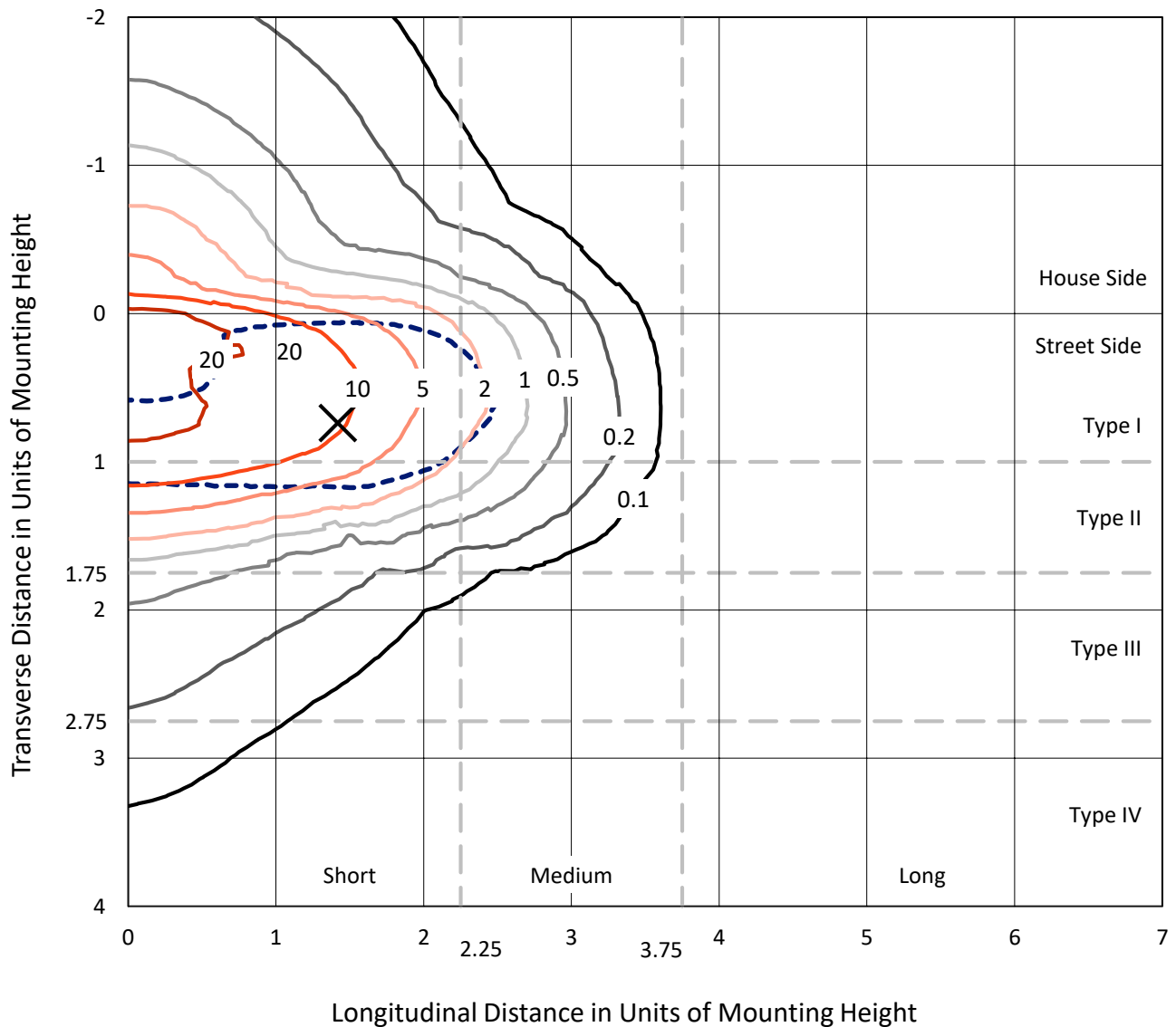


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

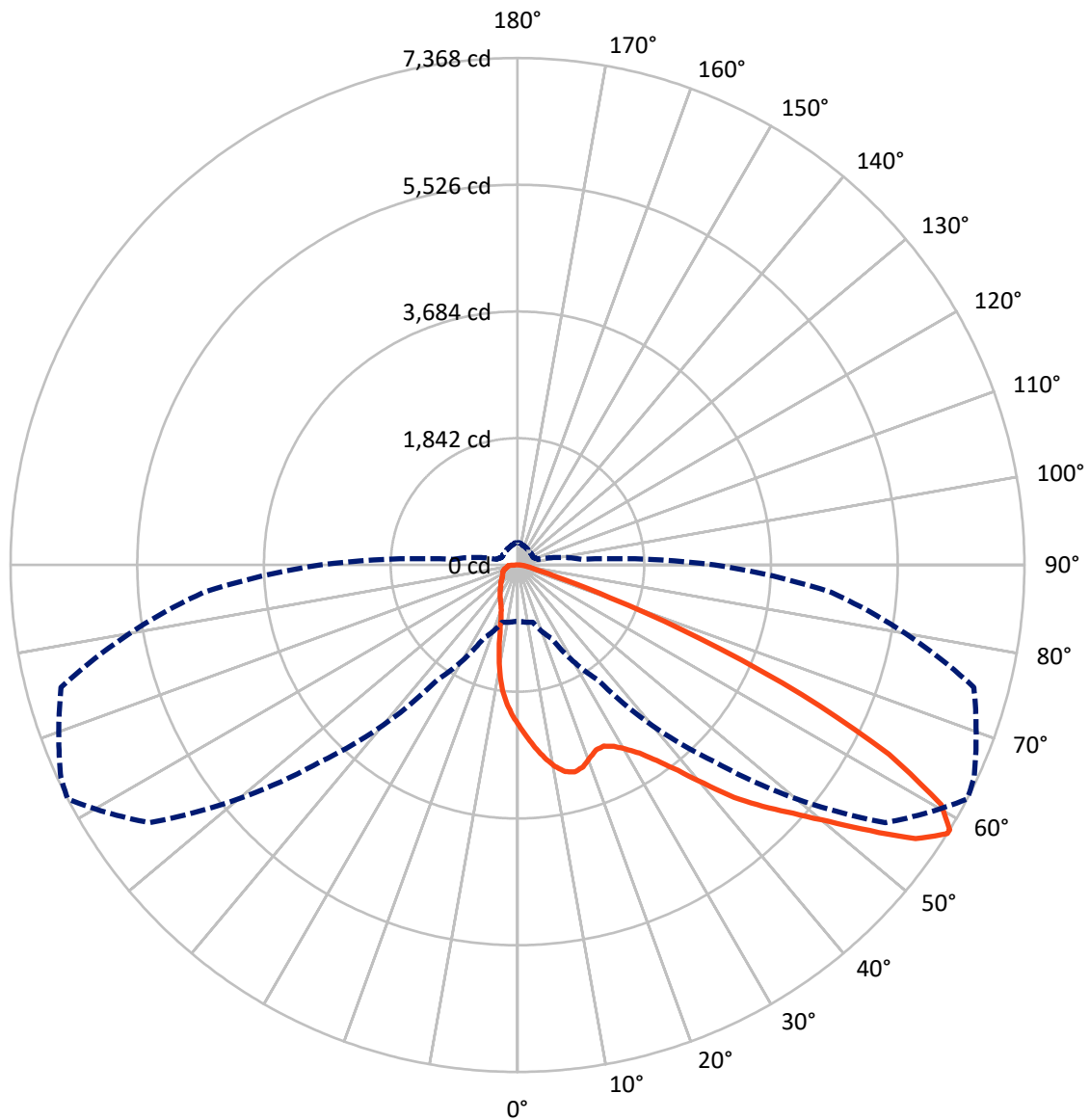


Based on 10 foot mounting height. Maximum calculated value = 28.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1337.6 | 0.0 | 1337.6 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 7433.0 | 0.0 | 7433.0 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 8770.5 | 0.0 | 8770.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 208.4 | 2.4 |
| 10°-20° | 532.6 | 6.1 |
| 20°-30° | 861.0 | 9.8 |
| 30°-40° | 1366.8 | 15.6 |
| 40°-50° | 1999.9 | 22.8 |
| 50°-60° | 2091.7 | 23.8 |
| 60°-70° | 1235.8 | 14.1 |
| 70°-80° | 348.1 | 4.0 |
| 80°-90° | 126.4 | 1.4 |
| 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° | 8770.5 | 100.0 |
| 0°-180° | 8770.5 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P266655

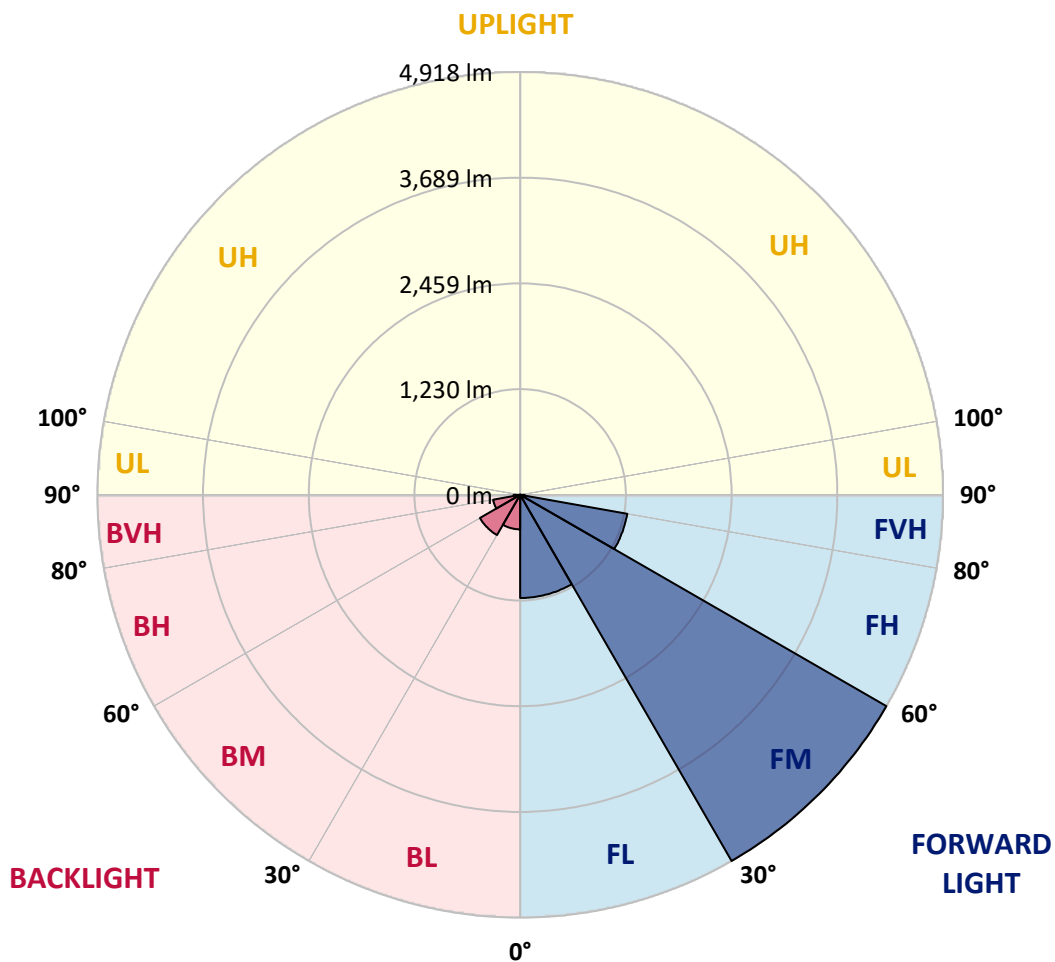
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1199.9 | 13.7 | | | |
| FM | (30°-60°) | 4918.5 | 56.1 | | | |
| FH | (60°-80°) | 1264.7 | 14.4 | | | G1/1800 |
| FVH | (80°-90°) | 49.9 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 402.0 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 539.9 | 6.2 | B1/1000 | | |
| BH | (60°-80°) | 319.2 | 3.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 76.5 | 0.9 | | | 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 II Short





REPORT NUMBER: P266655

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2329.8 | 2329.8 | 2329.8 | 2329.8 | 2329.8 | 2329.8 | 2329.8 | 2329.8 | 2329.8 | 2329.8 | 2329.8 |
| 2.5° | 2662.1 | 2640.7 | 2627.1 | 2615.1 | 2599.3 | 2566.0 | 2521.0 | 2492.4 | 2478.0 | 2428.8 | 2370.5 |
| 5° | 2923.2 | 2904.2 | 2890.1 | 2874.0 | 2846.0 | 2793.5 | 2720.8 | 2662.9 | 2634.5 | 2536.3 | 2419.8 |
| 7.5° | 2862.1 | 2869.9 | 2894.2 | 2936.7 | 2973.2 | 2966.2 | 2901.3 | 2827.8 | 2790.1 | 2653.6 | 2476.7 |
| 10° | 2493.7 | 2507.3 | 2549.4 | 2648.9 | 2810.0 | 2975.2 | 3025.6 | 2974.7 | 2936.7 | 2769.6 | 2535.3 |
| 12.5° | 2419.8 | 2419.3 | 2422.5 | 2449.0 | 2544.9 | 2777.4 | 3029.8 | 3080.9 | 3058.2 | 2880.2 | 2595.3 |
| 15° | 2449.9 | 2450.8 | 2448.2 | 2459.4 | 2489.2 | 2581.2 | 2903.3 | 3121.8 | 3137.9 | 2991.7 | 2657.2 |
| 17.5° | 2529.2 | 2527.1 | 2517.6 | 2517.6 | 2528.4 | 2564.3 | 2754.7 | 3083.8 | 3158.3 | 3090.4 | 2711.8 |
| 20° | 2662.1 | 2652.7 | 2627.5 | 2604.4 | 2592.8 | 2612.2 | 2693.6 | 2996.2 | 3123.0 | 3176.8 | 2756.8 |
| 22.5° | 2823.3 | 2815.7 | 2775.0 | 2725.4 | 2685.4 | 2684.9 | 2725.0 | 2919.9 | 3062.3 | 3258.2 | 2794.7 |
| 25° | 3031.4 | 3019.5 | 2958.7 | 2879.3 | 2809.2 | 2782.4 | 2793.5 | 2916.2 | 3029.4 | 3346.5 | 2828.7 |
| 27.5° | 3275.8 | 3254.0 | 3182.2 | 3067.7 | 2964.4 | 2910.4 | 2894.2 | 2983.5 | 3059.4 | 3456.0 | 2875.7 |
| 30° | 3572.4 | 3547.2 | 3455.2 | 3306.0 | 3160.2 | 3071.5 | 3037.2 | 3102.8 | 3159.3 | 3589.4 | 2951.3 |
| 32.5° | 3909.9 | 3873.5 | 3767.0 | 3602.6 | 3411.0 | 3275.5 | 3219.7 | 3260.6 | 3305.7 | 3750.1 | 3045.9 |
| 35° | 4376.2 | 4332.7 | 4178.6 | 3952.0 | 3735.5 | 3549.4 | 3460.1 | 3489.8 | 3533.7 | 3989.6 | 3182.5 |
| 37.5° | 4694.2 | 4674.7 | 4572.3 | 4359.1 | 4123.8 | 3909.5 | 3771.4 | 3788.8 | 3813.7 | 4289.0 | 3357.7 |
| 40° | 4691.2 | 4699.0 | 4701.1 | 4703.2 | 4543.0 | 4337.6 | 4189.4 | 4171.3 | 4166.2 | 4617.6 | 3556.7 |
| 42.5° | 4456.2 | 4488.4 | 4592.6 | 4803.5 | 4901.1 | 4806.9 | 4670.9 | 4618.5 | 4592.6 | 5005.0 | 3767.9 |
| 45° | 4096.5 | 4113.9 | 4308.8 | 4721.0 | 5084.3 | 5271.4 | 5168.7 | 5003.4 | 4956.4 | 5361.2 | 3942.9 |
| 47.5° | 3911.1 | 3930.1 | 4052.8 | 4502.0 | 5082.3 | 5646.8 | 5706.4 | 5391.6 | 5307.4 | 5670.8 | 4094.0 |
| 50° | 3469.6 | 3509.1 | 3663.6 | 4121.2 | 4896.9 | 5819.5 | 6268.5 | 5854.3 | 5680.0 | 5972.3 | 4245.6 |
| 52.5° | 2658.9 | 2720.0 | 2893.0 | 3495.1 | 4426.5 | 5734.1 | 6718.2 | 6415.1 | 6168.9 | 6284.5 | 4375.7 |
| 55° | 1677.1 | 1722.6 | 1867.9 | 2468.5 | 3540.9 | 5289.2 | 6888.7 | 7021.7 | 6802.9 | 6580.3 | 4488.4 |
| 57.5° | 911.9 | 932.1 | 986.7 | 1362.9 | 2303.3 | 4305.8 | 6640.1 | 7367.0 | 7276.1 | 6831.4 | 4573.5 |
| 58° | 816.1 | 829.8 | 863.6 | 1181.2 | 2042.7 | 4037.1 | 6529.9 | 7368.3 | 7322.9 | 6868.1 | 4580.1 |
| 60° | 605.5 | 598.5 | 568.3 | 674.0 | 1137.0 | 2789.0 | 5863.2 | 7073.3 | 7206.8 | 6913.1 | 4547.8 |
| 62.5° | 531.9 | 515.0 | 453.5 | 446.5 | 552.9 | 1284.8 | 4486.3 | 6059.1 | 6374.2 | 6656.3 | 4352.2 |
| 65° | 499.7 | 481.5 | 402.3 | 376.7 | 398.9 | 543.6 | 2642.8 | 4544.2 | 4939.4 | 5877.3 | 3851.7 |
| 67.5° | 475.7 | 452.2 | 369.7 | 334.4 | 336.1 | 359.3 | 1059.3 | 2862.1 | 3306.9 | 4462.4 | 2995.8 |
| 70° | 452.7 | 427.1 | 342.0 | 301.6 | 291.9 | 284.1 | 421.2 | 1432.6 | 1836.1 | 2818.7 | 1910.1 |
| 72.5° | 427.9 | 402.7 | 317.6 | 275.5 | 256.8 | 230.9 | 275.1 | 586.1 | 818.5 | 1333.5 | 866.4 |
| 75° | 391.9 | 369.3 | 293.2 | 252.3 | 226.0 | 191.2 | 207.8 | 306.1 | 367.1 | 531.1 | 417.5 |
| 77.5° | 347.7 | 329.1 | 266.0 | 233.3 | 200.3 | 155.2 | 159.8 | 212.3 | 235.4 | 303.9 | 248.2 |
| 80° | 249.9 | 256.5 | 236.7 | 209.8 | 178.5 | 125.9 | 122.7 | 154.9 | 167.3 | 195.3 | 161.4 |
| 82.5° | 175.4 | 179.2 | 195.8 | 171.3 | 147.4 | 99.2 | 90.5 | 109.1 | 116.5 | 128.5 | 87.1 |
| 85° | 121.0 | 116.9 | 134.2 | 119.4 | 106.5 | 66.0 | 62.0 | 73.9 | 78.4 | 79.7 | 45.0 |
| 87.5° | 72.8 | 72.8 | 77.7 | 64.0 | 57.4 | 34.2 | 33.4 | 42.1 | 45.0 | 42.9 | 24.8 |
| 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: P266655

CATALOG NUMBER: GAN-AF-02-LED-U-AFL-7027-800-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2329.8 | 2329.8 | 2329.8 | 2329.8 | 2329.8 | 2329.8 | 2329.8 | 2329.8 | 2329.8 | 2329.8 | 2329.8 |
| 2.5° | 2336.0 | 2306.6 | 2244.2 | 2194.2 | 2131.0 | 2065.5 | 2028.6 | 1989.3 | 1962.5 | 1943.2 | 1974.1 |
| 5° | 2353.6 | 2293.8 | 2164.9 | 2042.7 | 1907.6 | 1767.2 | 1660.6 | 1561.6 | 1492.5 | 1449.7 | 1490.1 |
| 7.5° | 2381.8 | 2289.6 | 2084.3 | 1875.4 | 1632.9 | 1399.2 | 1190.3 | 1059.3 | 982.9 | 945.3 | 968.9 |
| 10° | 2413.9 | 2283.0 | 1989.8 | 1648.7 | 1301.7 | 1007.3 | 851.1 | 798.4 | 780.9 | 774.0 | 777.3 |
| 12.5° | 2440.9 | 2268.9 | 1873.8 | 1374.4 | 977.5 | 795.4 | 750.4 | 749.1 | 752.9 | 753.7 | 754.9 |
| 15° | 2459.7 | 2248.4 | 1701.5 | 1088.7 | 781.9 | 724.8 | 722.3 | 729.8 | 736.8 | 739.7 | 741.3 |
| 17.5° | 2472.7 | 2205.8 | 1507.0 | 860.7 | 700.5 | 690.5 | 696.2 | 705.8 | 713.3 | 715.3 | 716.9 |
| 20° | 2471.3 | 2143.4 | 1275.4 | 717.7 | 656.2 | 656.2 | 666.2 | 673.5 | 674.0 | 671.6 | 672.8 |
| 22.5° | 2458.7 | 2057.9 | 1050.7 | 641.7 | 617.0 | 624.1 | 633.9 | 626.9 | 598.0 | 579.0 | 580.2 |
| 25° | 2437.1 | 1956.0 | 858.2 | 593.5 | 580.7 | 593.2 | 590.1 | 537.2 | 496.0 | 477.4 | 477.4 |
| 27.5° | 2418.1 | 1835.3 | 710.4 | 551.4 | 544.4 | 559.6 | 508.4 | 460.6 | 443.1 | 434.5 | 431.5 |
| 30° | 2404.5 | 1705.3 | 611.7 | 510.9 | 510.1 | 498.9 | 441.1 | 427.9 | 425.0 | 417.9 | 415.5 |
| 32.5° | 2407.7 | 1573.6 | 548.4 | 475.4 | 478.3 | 427.1 | 408.9 | 411.8 | 409.3 | 401.8 | 398.6 |
| 35° | 2435.0 | 1448.3 | 507.2 | 443.1 | 434.5 | 385.7 | 389.9 | 395.3 | 394.4 | 384.0 | 380.8 |
| 37.5° | 2483.8 | 1329.9 | 480.0 | 416.4 | 379.2 | 365.2 | 371.7 | 380.0 | 377.8 | 370.9 | 368.3 |
| 40° | 2534.9 | 1218.3 | 457.5 | 395.3 | 346.4 | 351.1 | 356.8 | 361.4 | 363.5 | 365.5 | 363.9 |
| 42.5° | 2585.0 | 1102.0 | 430.4 | 373.8 | 332.9 | 337.9 | 340.3 | 344.9 | 356.0 | 363.9 | 363.5 |
| 45° | 2614.6 | 992.4 | 402.3 | 343.2 | 322.1 | 325.0 | 323.4 | 332.5 | 346.0 | 359.0 | 359.3 |
| 47.5° | 2647.8 | 907.4 | 380.0 | 315.1 | 311.8 | 313.9 | 308.8 | 318.0 | 330.3 | 346.0 | 347.7 |
| 50° | 2687.8 | 856.5 | 362.1 | 292.8 | 297.8 | 297.8 | 296.5 | 304.7 | 322.1 | 340.3 | 343.6 |
| 52.5° | 2733.3 | 846.7 | 347.4 | 276.7 | 283.8 | 283.3 | 284.6 | 296.9 | 315.9 | 333.7 | 336.5 |
| 55° | 2788.6 | 873.5 | 331.3 | 264.7 | 270.1 | 271.7 | 275.9 | 290.0 | 306.1 | 326.3 | 327.5 |
| 57.5° | 2852.9 | 927.9 | 318.4 | 255.2 | 257.8 | 263.1 | 269.8 | 282.4 | 299.9 | 322.1 | 323.4 |
| 58° | 2863.6 | 939.5 | 316.4 | 254.4 | 255.2 | 261.4 | 268.9 | 281.3 | 298.5 | 323.0 | 324.2 |
| 60° | 2864.2 | 978.0 | 311.8 | 250.6 | 245.7 | 256.0 | 264.3 | 276.7 | 296.5 | 325.8 | 328.7 |
| 62.5° | 2762.6 | 977.5 | 308.5 | 245.2 | 235.9 | 248.7 | 258.2 | 272.5 | 294.5 | 332.9 | 338.7 |
| 65° | 2432.5 | 888.3 | 292.8 | 237.1 | 228.0 | 242.1 | 252.8 | 269.8 | 300.3 | 363.5 | 367.1 |
| 67.5° | 1902.7 | 728.0 | 263.6 | 225.6 | 217.7 | 235.4 | 249.5 | 269.3 | 306.4 | 370.5 | 372.9 |
| 70° | 1257.9 | 544.7 | 231.3 | 212.3 | 206.9 | 227.6 | 251.0 | 283.3 | 299.4 | 355.5 | 349.0 |
| 72.5° | 653.0 | 382.4 | 205.3 | 195.8 | 194.6 | 220.5 | 275.1 | 281.7 | 292.4 | 334.4 | 326.3 |
| 75° | 342.9 | 265.5 | 182.5 | 177.5 | 179.7 | 218.8 | 324.6 | 274.3 | 283.3 | 320.1 | 335.7 |
| 77.5° | 209.8 | 214.3 | 163.1 | 161.1 | 165.2 | 213.9 | 324.2 | 264.7 | 270.1 | 294.5 | 311.8 |
| 80° | 140.4 | 173.9 | 148.3 | 148.7 | 151.5 | 195.8 | 291.2 | 249.9 | 254.0 | 278.4 | 296.1 |
| 82.5° | 88.8 | 102.9 | 134.7 | 141.7 | 137.9 | 161.4 | 247.5 | 227.6 | 233.3 | 318.4 | 336.5 |
| 85° | 45.0 | 64.4 | 116.9 | 136.4 | 124.3 | 113.1 | 200.7 | 199.5 | 202.4 | 229.6 | 239.9 |
| 87.5° | 20.7 | 35.6 | 91.3 | 118.9 | 93.8 | 70.6 | 145.7 | 147.9 | 159.4 | 163.1 | 163.1 |
| 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)