

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: P193952

Luminaire Tested: **GAN-AF-04-LED-U-T2R-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-T2R-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20412 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

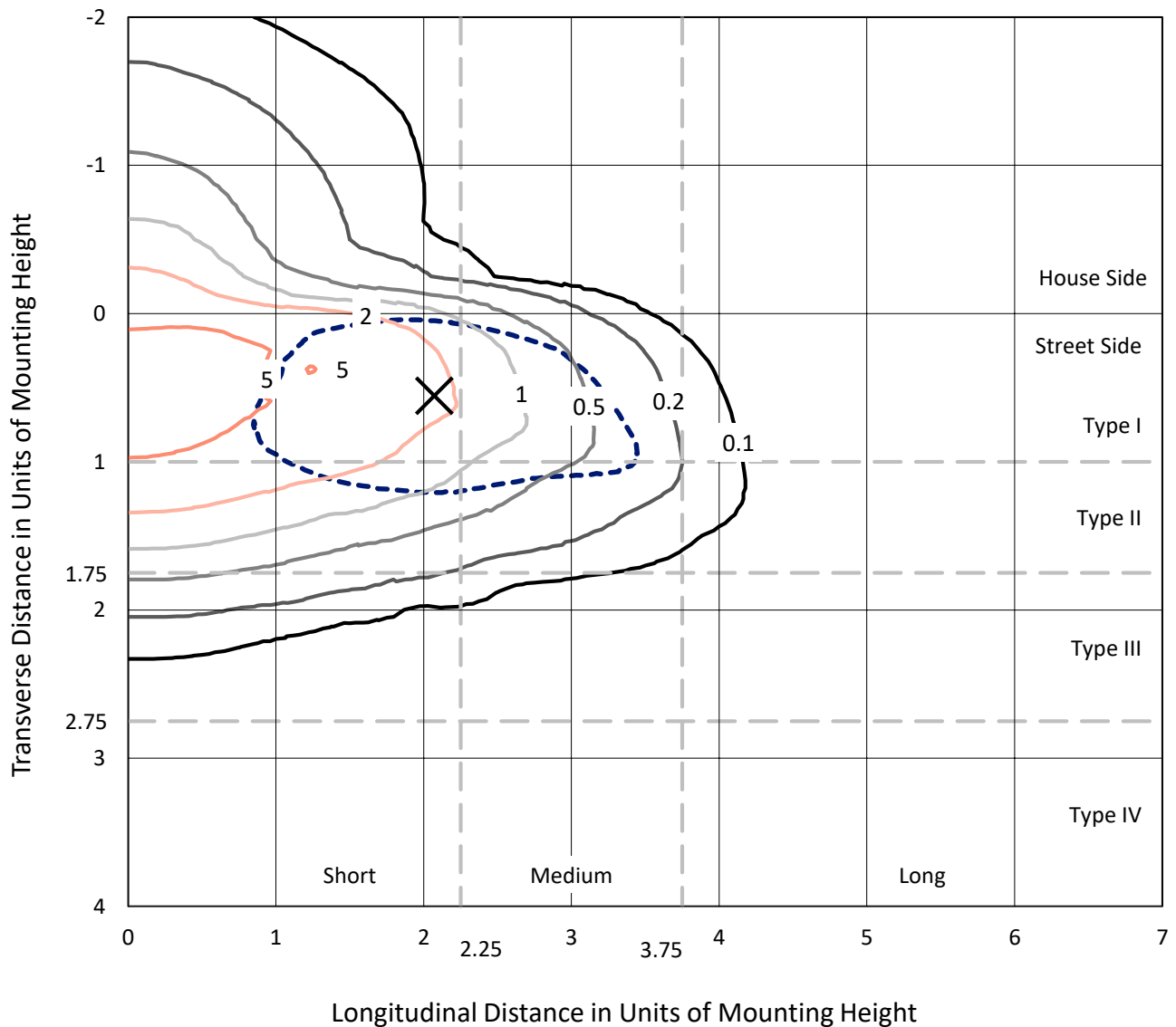
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P193952
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

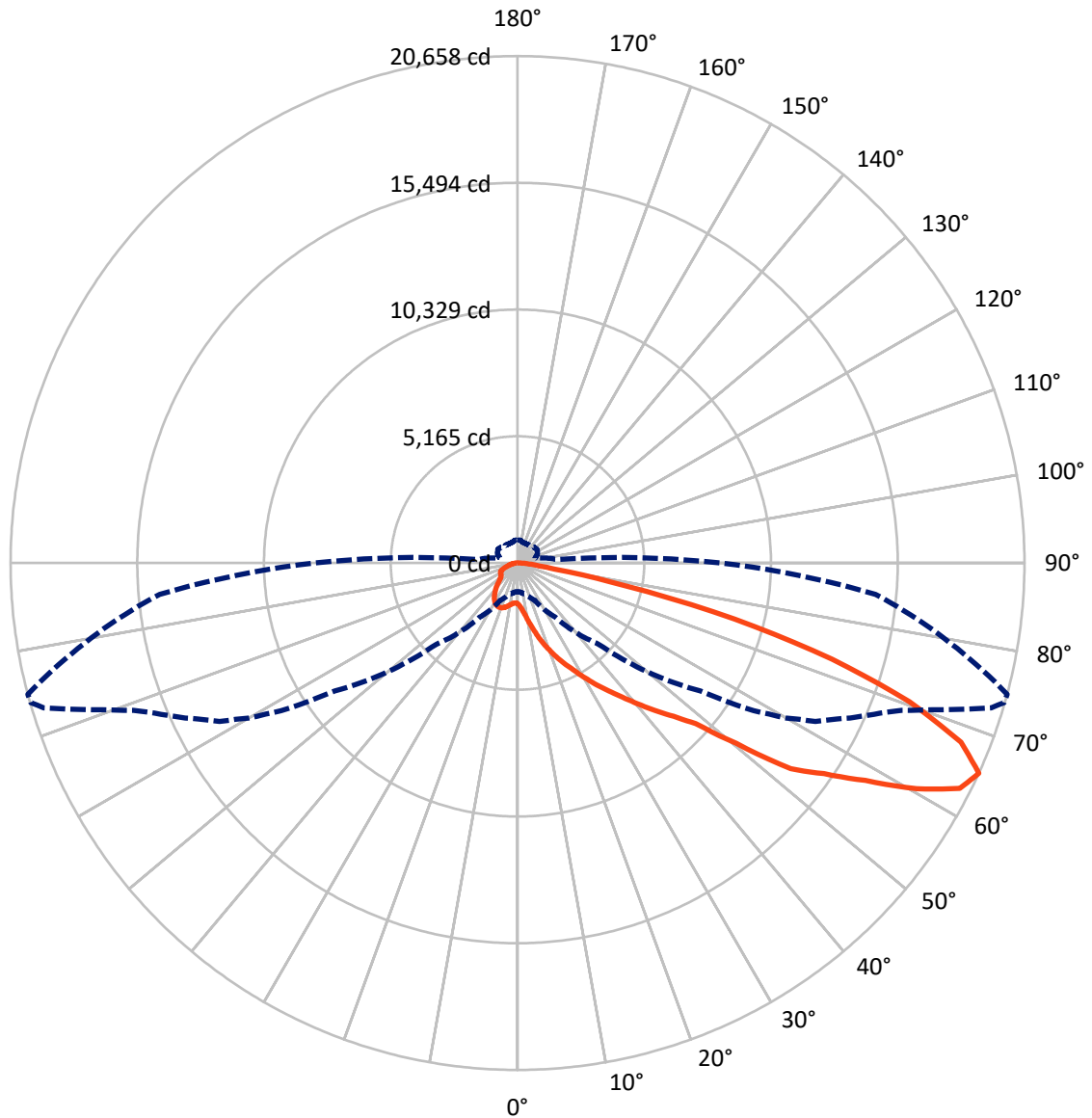


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3147.0 | 0.0 | 3147.0 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 17264.9 | 0.0 | 17264.9 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 20412.0 | 0.0 | 20412.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 205.0 | 1.0 |
| 10°-20° | 801.1 | 3.9 |
| 20°-30° | 1643.7 | 8.1 |
| 30°-40° | 2765.4 | 13.5 |
| 40°-50° | 3821.0 | 18.7 |
| 50°-60° | 4769.8 | 23.4 |
| 60°-70° | 4292.3 | 21.0 |
| 70°-80° | 1799.3 | 8.8 |
| 80°-90° | 314.3 | 1.5 |
| 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° | 20412.0 | 100.0 |
| 0°-180° | 20412.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P193952

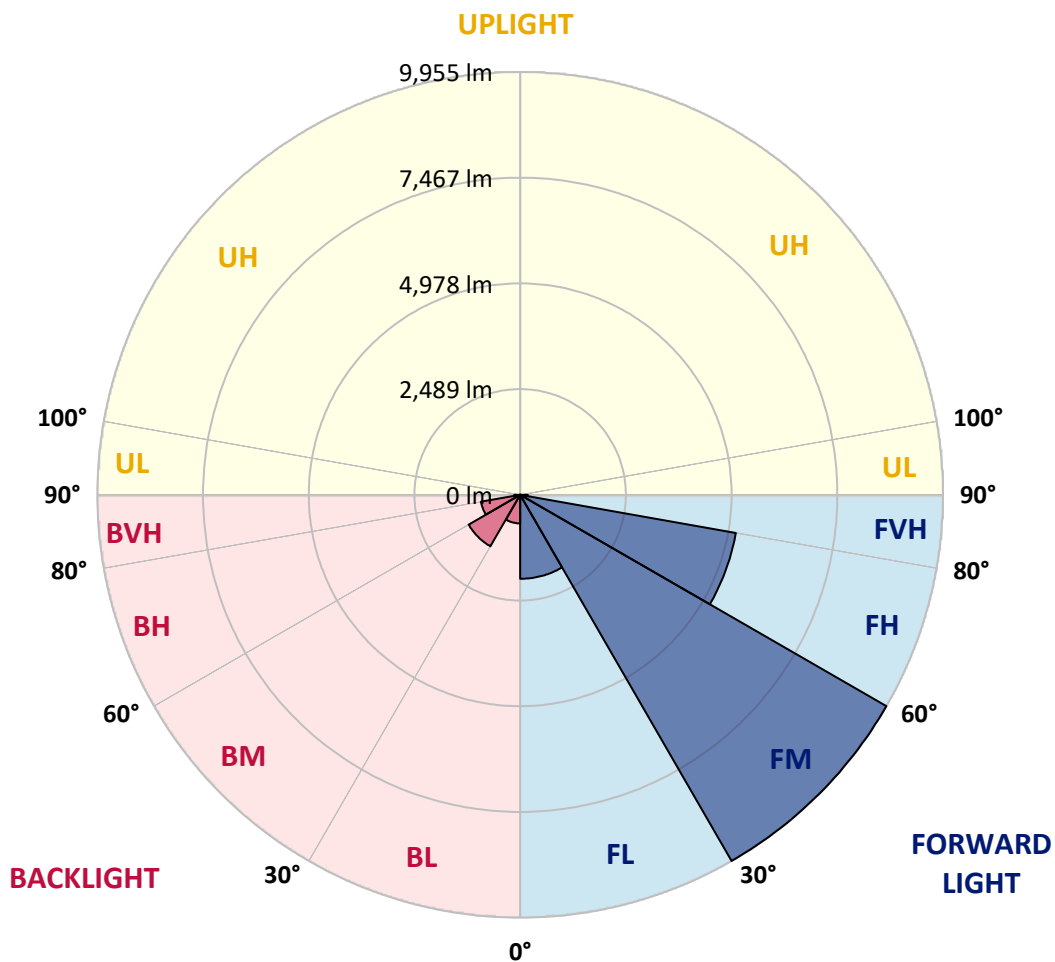
CATALOG NUMBER: GAN-AF-04-LED-U-T2R-8030-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1976.8 | 9.7 | | | |
| FM (30°-60°) | 9955.4 | 48.8 | | | |
| FH (60°-80°) | 5156.0 | 25.3 | | | G3/7500 |
| FVH (80°-90°) | 176.7 | 0.9 | | | G2/225 |
| BL (0°-30°) | 673.0 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1400.8 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 935.6 | 4.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 137.7 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short





REPORT NUMBER: P193952

CATALOG NUMBER: GAN-AF-04-LED-U-T2R-8030-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 |
| 2.5° | 2106.2 | 2083.0 | 2088.8 | 2050.2 | 2002.8 | 1941.0 | 1872.4 | 1871.4 | 1872.4 | 1865.6 | 1840.5 |
| 5° | 2920.6 | 2892.6 | 2882.0 | 2795.0 | 2667.5 | 2485.9 | 2288.8 | 2267.5 | 2258.8 | 2236.6 | 2185.4 |
| 7.5° | 3514.8 | 3499.4 | 3482.9 | 3417.2 | 3301.3 | 3098.4 | 2833.7 | 2788.3 | 2744.8 | 2734.2 | 2676.2 |
| 10° | 3898.4 | 3894.5 | 3859.7 | 3842.3 | 3769.9 | 3594.0 | 3336.1 | 3292.6 | 3245.3 | 3228.8 | 3168.0 |
| 12.5° | 4201.8 | 4200.8 | 4184.4 | 4189.2 | 4126.4 | 3998.9 | 3776.6 | 3737.0 | 3702.3 | 3652.0 | 3608.5 |
| 15° | 4411.4 | 4412.4 | 4436.5 | 4463.6 | 4453.9 | 4367.9 | 4159.2 | 4141.8 | 4111.9 | 4077.1 | 4025.9 |
| 17.5° | 4583.4 | 4588.2 | 4613.3 | 4662.6 | 4715.7 | 4709.0 | 4543.8 | 4529.3 | 4503.2 | 4455.8 | 4428.8 |
| 20° | 4971.8 | 4990.1 | 4941.8 | 4941.8 | 4947.6 | 4973.7 | 4894.5 | 4882.9 | 4846.2 | 4821.0 | 4799.8 |
| 22.5° | 5627.8 | 5649.0 | 5539.9 | 5428.8 | 5319.6 | 5240.4 | 5161.1 | 5175.6 | 5150.5 | 5133.1 | 5120.6 |
| 25° | 6479.9 | 6496.3 | 6319.5 | 6132.1 | 5909.9 | 5620.0 | 5423.9 | 5415.2 | 5401.7 | 5391.1 | 5385.3 |
| 27.5° | 7281.8 | 7288.6 | 7121.4 | 6847.0 | 6589.1 | 6172.7 | 5690.6 | 5679.9 | 5663.5 | 5643.2 | 5625.8 |
| 30° | 7967.8 | 7965.8 | 7793.9 | 7532.0 | 7255.7 | 6794.9 | 6095.4 | 6062.5 | 6014.2 | 5959.2 | 5916.7 |
| 32.5° | 8561.9 | 8559.1 | 8370.7 | 8099.2 | 7809.3 | 7411.3 | 6650.0 | 6582.3 | 6507.0 | 6399.7 | 6335.0 |
| 35° | 9029.6 | 9027.6 | 8849.9 | 8566.8 | 8234.4 | 7991.9 | 7285.7 | 7202.6 | 7106.9 | 6963.0 | 6863.5 |
| 37.5° | 9206.4 | 9206.4 | 9106.9 | 8913.6 | 8619.9 | 8453.7 | 7991.9 | 7891.4 | 7789.0 | 7625.8 | 7513.7 |
| 40° | 9103.0 | 9104.9 | 9126.2 | 9090.4 | 8947.4 | 8819.9 | 8650.8 | 8590.9 | 8503.0 | 8356.2 | 8239.3 |
| 42.5° | 8756.1 | 8766.8 | 8907.8 | 9080.8 | 9152.3 | 9132.0 | 9235.3 | 9208.3 | 9146.5 | 9033.4 | 8940.7 |
| 45° | 8316.5 | 8349.4 | 8504.0 | 8830.5 | 9209.3 | 9401.5 | 9725.2 | 9728.1 | 9716.5 | 9655.6 | 9584.1 |
| 47.5° | 7712.7 | 7759.1 | 7962.9 | 8404.5 | 9075.9 | 9663.4 | 10222.7 | 10248.8 | 10273.0 | 10233.4 | 10200.5 |
| 50° | 6910.8 | 6965.9 | 7271.2 | 7856.7 | 8804.5 | 9934.8 | 11162.8 | 11280.7 | 11390.8 | 11377.3 | 11399.5 |
| 52.5° | 6051.9 | 6116.6 | 6490.5 | 7142.7 | 8337.8 | 9997.6 | 11763.7 | 11956.0 | 12148.3 | 12305.7 | 12472.9 |
| 55° | 5277.1 | 5242.3 | 5616.2 | 6303.1 | 7570.7 | 9714.6 | 12303.8 | 12535.7 | 12750.2 | 12943.4 | 13142.4 |
| 57.5° | 4226.9 | 4283.9 | 4658.7 | 5337.9 | 6555.3 | 8915.6 | 12675.8 | 13014.9 | 13323.1 | 13642.9 | 13925.0 |
| 60° | 3089.7 | 3146.7 | 3553.5 | 4243.3 | 5452.9 | 7704.0 | 12391.7 | 12905.7 | 13399.4 | 13889.3 | 14271.8 |
| 62.5° | 1865.6 | 1908.1 | 2266.6 | 2923.5 | 4204.6 | 6267.4 | 11126.1 | 11800.5 | 12527.0 | 13112.5 | 13698.9 |
| 65° | 1161.3 | 1185.5 | 1317.8 | 1679.2 | 2700.4 | 4679.0 | 9090.4 | 9825.7 | 10608.2 | 11351.2 | 11960.8 |
| 67.5° | 950.7 | 959.4 | 983.5 | 1060.8 | 1483.0 | 3051.1 | 6765.9 | 7417.1 | 8123.3 | 8842.1 | 9520.4 |
| 70° | 855.0 | 849.2 | 849.2 | 854.1 | 950.7 | 1640.5 | 4429.8 | 4853.9 | 5442.3 | 6067.4 | 6687.6 |
| 72.5° | 771.9 | 766.2 | 755.5 | 741.0 | 775.8 | 1000.9 | 2289.8 | 2609.5 | 3033.7 | 3589.2 | 4183.4 |
| 75° | 693.7 | 686.0 | 673.4 | 655.0 | 679.2 | 755.5 | 1099.5 | 1233.8 | 1440.5 | 1736.2 | 2067.5 |
| 77.5° | 612.5 | 602.9 | 591.3 | 577.8 | 608.7 | 587.4 | 644.4 | 692.7 | 771.9 | 866.6 | 991.3 |
| 80° | 520.8 | 512.1 | 508.2 | 501.4 | 538.1 | 447.3 | 455.1 | 485.0 | 531.4 | 582.6 | 640.6 |
| 82.5° | 407.7 | 407.7 | 423.2 | 426.1 | 466.6 | 321.7 | 340.1 | 366.2 | 390.3 | 417.4 | 444.4 |
| 85° | 268.6 | 270.5 | 322.7 | 343.0 | 368.1 | 216.4 | 255.1 | 263.8 | 283.1 | 298.5 | 310.1 |
| 87.5° | 84.1 | 90.8 | 197.1 | 218.3 | 211.6 | 122.7 | 156.5 | 160.4 | 173.9 | 184.5 | 194.2 |
| 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: P193952

CATALOG NUMBER: GAN-AF-04-LED-U-T2R-8030-ADJ

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 |
| 2.5° | 1840.5 | 1828.9 | 1818.3 | 1817.3 | 1809.6 | 1799.0 | 1802.8 | 1786.4 | 1787.4 | 1778.7 | 1769.0 |
| 5° | 2164.2 | 2156.4 | 2117.8 | 2107.2 | 2078.2 | 2059.8 | 2056.9 | 2018.3 | 2013.4 | 1991.2 | 1967.1 |
| 7.5° | 2629.8 | 2604.7 | 2550.6 | 2524.5 | 2475.3 | 2438.5 | 2421.2 | 2369.9 | 2344.8 | 2286.9 | 2260.8 |
| 10° | 3117.7 | 3085.9 | 3019.2 | 2982.5 | 2935.1 | 2876.2 | 2844.3 | 2769.9 | 2740.9 | 2687.8 | 2624.0 |
| 12.5° | 3569.9 | 3538.0 | 3469.4 | 3441.4 | 3378.6 | 3315.8 | 3281.0 | 3197.0 | 3159.3 | 3074.3 | 3024.0 |
| 15° | 3988.2 | 3956.4 | 3896.4 | 3867.5 | 3804.7 | 3753.5 | 3707.1 | 3624.0 | 3579.6 | 3500.3 | 3434.6 |
| 17.5° | 4394.0 | 4360.2 | 4308.0 | 4281.9 | 4221.1 | 4168.9 | 4118.7 | 4040.4 | 3995.0 | 3915.8 | 3856.8 |
| 20° | 4770.8 | 4745.7 | 4708.0 | 4673.2 | 4612.4 | 4565.0 | 4505.1 | 4437.5 | 4371.8 | 4313.8 | 4257.8 |
| 22.5° | 5099.3 | 5089.6 | 5049.1 | 5033.6 | 4981.4 | 4940.8 | 4888.7 | 4822.0 | 4774.7 | 4701.2 | 4649.1 |
| 25° | 5382.4 | 5379.5 | 5360.2 | 5355.3 | 5318.6 | 5280.0 | 5268.4 | 5213.3 | 5169.8 | 5105.1 | 5051.0 |
| 27.5° | 5625.8 | 5628.7 | 5623.9 | 5637.4 | 5627.8 | 5610.4 | 5611.4 | 5593.0 | 5567.9 | 5513.8 | 5466.4 |
| 30° | 5896.4 | 5880.9 | 5889.6 | 5908.9 | 5914.7 | 5916.7 | 5948.5 | 5959.2 | 5957.2 | 5921.5 | 5898.3 |
| 32.5° | 6279.0 | 6242.2 | 6208.4 | 6205.5 | 6224.9 | 6232.6 | 6286.7 | 6314.7 | 6338.9 | 6347.6 | 6351.4 |
| 35° | 6766.9 | 6693.4 | 6622.9 | 6585.2 | 6552.4 | 6561.1 | 6599.7 | 6645.1 | 6698.3 | 6735.0 | 6778.5 |
| 37.5° | 7381.3 | 7291.5 | 7166.8 | 7078.0 | 7055.7 | 7007.4 | 7032.5 | 7068.3 | 7120.5 | 7177.5 | 7252.8 |
| 40° | 8126.2 | 7990.0 | 7849.9 | 7732.0 | 7668.3 | 7579.4 | 7578.4 | 7571.7 | 7603.5 | 7656.7 | 7762.9 |
| 42.5° | 8843.1 | 8722.3 | 8573.5 | 8449.9 | 8366.8 | 8248.0 | 8223.8 | 8161.0 | 8175.5 | 8221.9 | 8325.2 |
| 45° | 9514.6 | 9415.1 | 9324.2 | 9181.2 | 9110.7 | 8982.2 | 8941.6 | 8867.2 | 8825.7 | 8847.0 | 8950.3 |
| 47.5° | 10164.8 | 10101.0 | 10006.3 | 9913.6 | 9859.5 | 9744.5 | 9692.3 | 9639.2 | 9586.1 | 9584.1 | 9692.3 |
| 50° | 11432.4 | 11398.5 | 11286.5 | 11189.9 | 11215.9 | 11074.9 | 11083.6 | 10940.6 | 11005.3 | 11013.1 | 11240.1 |
| 52.5° | 12623.6 | 12741.5 | 12824.6 | 12926.0 | 12991.7 | 13004.3 | 13047.7 | 13112.5 | 13190.7 | 13345.3 | 13555.9 |
| 55° | 13305.7 | 13453.5 | 13539.5 | 13616.8 | 13744.3 | 13771.4 | 13843.8 | 13929.8 | 13998.4 | 14172.3 | 14351.1 |
| 57.5° | 14116.3 | 14390.7 | 14524.0 | 14646.7 | 14818.7 | 14884.4 | 15005.1 | 15098.9 | 15187.7 | 15393.5 | 15610.0 |
| 60° | 14615.8 | 14950.1 | 15221.6 | 15415.8 | 15631.2 | 15785.8 | 15968.4 | 16115.2 | 16323.9 | 16570.3 | 16893.0 |
| 62.5° | 14218.7 | 14709.5 | 15069.9 | 15403.2 | 15695.9 | 15991.6 | 16253.4 | 16527.8 | 16844.7 | 17217.6 | 17718.1 |
| 65° | 12637.1 | 13136.6 | 13754.0 | 14099.9 | 14487.3 | 14943.3 | 15341.4 | 15785.8 | 16217.7 | 16760.6 | 17500.7 |
| 67.5° | 10173.5 | 10754.1 | 11447.8 | 11796.6 | 12242.0 | 12751.1 | 13197.5 | 13740.5 | 14244.8 | 14902.7 | 15817.7 |
| 70° | 7333.0 | 8083.7 | 8667.3 | 9031.5 | 9551.3 | 10075.9 | 10506.8 | 11138.6 | 11556.0 | 12230.4 | 13176.2 |
| 72.5° | 4643.3 | 5235.5 | 5950.5 | 6409.4 | 6871.2 | 7402.6 | 7843.1 | 8388.0 | 8777.4 | 9391.9 | 10248.8 |
| 75° | 2496.5 | 2933.2 | 3561.2 | 3996.9 | 4491.6 | 4945.7 | 5461.6 | 5826.8 | 6114.7 | 6600.7 | 7296.3 |
| 77.5° | 1170.0 | 1435.7 | 1753.5 | 2088.8 | 2424.0 | 2773.8 | 3113.9 | 3409.5 | 3533.2 | 3811.4 | 4222.0 |
| 80° | 710.1 | 796.1 | 888.9 | 992.2 | 1132.3 | 1245.4 | 1395.1 | 1503.3 | 1511.0 | 1599.0 | 1724.6 |
| 82.5° | 474.4 | 506.3 | 534.3 | 560.4 | 596.1 | 624.1 | 656.0 | 693.7 | 709.1 | 729.4 | 770.0 |
| 85° | 323.7 | 339.1 | 344.9 | 361.3 | 357.5 | 367.1 | 379.7 | 392.3 | 399.0 | 398.1 | 416.4 |
| 87.5° | 199.0 | 206.8 | 210.6 | 214.5 | 211.6 | 207.7 | 213.5 | 220.3 | 222.2 | 216.4 | 218.3 |
| 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: P193952

CATALOG NUMBER: GAN-AF-04-LED-U-T2R-8030-ADJ

CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 |
| 2.5° | 1770.9 | 1762.2 | 1753.5 | 1747.8 | 1745.8 | 1694.6 | 1672.4 | 1657.9 | 1627.0 | 1601.9 | 1581.6 |
| 5° | 1953.5 | 1935.2 | 1920.7 | 1903.3 | 1893.6 | 1764.2 | 1716.8 | 1684.0 | 1629.9 | 1598.0 | 1569.0 |
| 7.5° | 2247.2 | 2196.0 | 2166.1 | 2132.3 | 2103.3 | 1869.5 | 1791.2 | 1740.0 | 1664.7 | 1622.2 | 1589.3 |
| 10° | 2580.6 | 2527.4 | 2480.1 | 2427.9 | 2382.5 | 2009.6 | 1895.6 | 1816.3 | 1716.8 | 1661.8 | 1618.3 |
| 12.5° | 2952.5 | 2900.4 | 2840.5 | 2773.8 | 2715.8 | 2187.3 | 2028.9 | 1915.9 | 1779.6 | 1706.2 | 1645.3 |
| 15° | 3392.1 | 3300.3 | 3227.9 | 3150.6 | 3083.0 | 2399.9 | 2184.4 | 2027.9 | 1846.3 | 1746.8 | 1665.6 |
| 17.5° | 3800.8 | 3704.2 | 3605.6 | 3538.0 | 3459.8 | 2638.5 | 2341.0 | 2141.9 | 1901.4 | 1772.9 | 1669.5 |
| 20° | 4199.8 | 4094.5 | 4009.5 | 3918.7 | 3836.5 | 2885.9 | 2508.1 | 2242.4 | 1937.1 | 1773.8 | 1645.3 |
| 22.5° | 4551.5 | 4485.8 | 4391.1 | 4292.6 | 4209.5 | 3133.2 | 2664.6 | 2327.4 | 1950.6 | 1751.6 | 1602.8 |
| 25° | 4951.5 | 4881.9 | 4766.0 | 4682.9 | 4590.1 | 3385.4 | 2818.2 | 2393.1 | 1942.9 | 1710.1 | 1537.1 |
| 27.5° | 5378.5 | 5301.2 | 5182.4 | 5095.4 | 4983.4 | 3647.2 | 2959.3 | 2440.5 | 1913.9 | 1642.4 | 1449.2 |
| 30° | 5823.9 | 5753.4 | 5636.5 | 5548.6 | 5435.5 | 3924.5 | 3116.8 | 2472.4 | 1856.0 | 1548.7 | 1346.8 |
| 32.5° | 6302.1 | 6243.2 | 6127.3 | 6035.5 | 5914.7 | 4224.9 | 3263.6 | 2482.0 | 1768.0 | 1437.6 | 1238.6 |
| 35° | 6756.2 | 6715.7 | 6618.1 | 6532.1 | 6406.5 | 4509.0 | 3419.2 | 2477.2 | 1663.7 | 1315.9 | 1140.0 |
| 37.5° | 7267.3 | 7243.2 | 7194.9 | 7085.7 | 6932.1 | 4894.5 | 3605.6 | 2456.9 | 1536.2 | 1195.1 | 1064.7 |
| 40° | 7812.2 | 7814.2 | 7762.0 | 7687.6 | 7544.6 | 5362.1 | 3827.9 | 2417.3 | 1397.0 | 1088.8 | 996.1 |
| 42.5° | 8389.0 | 8419.0 | 8393.8 | 8340.7 | 8203.5 | 5833.6 | 4093.5 | 2369.0 | 1261.8 | 985.5 | 928.5 |
| 45° | 9049.9 | 9086.6 | 9125.2 | 9047.0 | 8913.6 | 6455.8 | 4443.3 | 2306.2 | 1115.9 | 899.5 | 882.1 |
| 47.5° | 9812.1 | 9870.1 | 9904.9 | 9905.9 | 9772.5 | 7226.7 | 5011.4 | 2268.5 | 986.4 | 841.5 | 859.9 |
| 50° | 11420.8 | 11439.1 | 11521.2 | 11664.2 | 11561.8 | 9011.2 | 6003.6 | 2245.3 | 898.5 | 805.8 | 843.4 |
| 52.5° | 13738.5 | 13940.5 | 14082.5 | 14072.8 | 13933.7 | 10144.5 | 6550.4 | 2125.5 | 846.3 | 792.2 | 835.7 |
| 55° | 14682.5 | 14934.6 | 15197.4 | 15267.0 | 15158.8 | 11111.6 | 7067.3 | 2005.7 | 821.2 | 801.9 | 838.6 |
| 57.5° | 15940.4 | 16365.5 | 16725.8 | 16877.5 | 16721.0 | 12349.2 | 7747.5 | 1942.9 | 813.5 | 828.0 | 857.0 |
| 60° | 17409.9 | 17935.5 | 18408.9 | 18681.3 | 18681.3 | 13771.4 | 8452.8 | 1916.8 | 802.9 | 866.6 | 887.9 |
| 62.5° | 18353.8 | 19125.7 | 19840.7 | 20239.7 | 20228.1 | 14761.7 | 8765.8 | 1827.9 | 778.7 | 893.7 | 930.4 |
| 65° | 18357.7 | 19275.5 | 20186.6 | 20634.9 | 20658.0 | 14639.9 | 8248.9 | 1614.4 | 734.3 | 897.5 | 972.9 |
| 67.5° | 16827.3 | 17806.0 | 18867.8 | 19369.2 | 19485.1 | 13476.7 | 7140.8 | 1327.5 | 661.8 | 858.9 | 988.4 |
| 70° | 14211.9 | 15167.5 | 16251.5 | 16744.2 | 16950.0 | 11488.4 | 5751.4 | 1023.1 | 569.1 | 773.9 | 956.5 |
| 72.5° | 11196.6 | 12133.8 | 12888.3 | 13248.7 | 13409.1 | 8781.3 | 4188.2 | 772.9 | 466.6 | 652.1 | 870.5 |
| 75° | 7927.2 | 8630.5 | 9031.5 | 9111.7 | 9136.8 | 5293.5 | 2544.8 | 574.9 | 384.5 | 507.2 | 735.2 |
| 77.5° | 4474.2 | 4775.6 | 4742.8 | 4778.5 | 4481.0 | 2043.4 | 1108.2 | 411.6 | 316.9 | 385.5 | 570.0 |
| 80° | 1746.8 | 1800.9 | 1691.7 | 1657.9 | 1520.7 | 760.4 | 488.9 | 286.9 | 253.1 | 291.8 | 399.0 |
| 82.5° | 770.0 | 795.1 | 771.9 | 777.7 | 743.9 | 392.3 | 292.7 | 207.7 | 193.2 | 213.5 | 264.7 |
| 85° | 424.1 | 431.9 | 429.9 | 442.5 | 424.1 | 156.5 | 139.1 | 127.5 | 135.3 | 144.9 | 170.0 |
| 87.5° | 206.8 | 208.7 | 201.9 | 212.6 | 205.8 | 79.2 | 68.6 | 72.5 | 79.2 | 81.2 | 81.2 |
| 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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|-------|--------|--------|--------|--------|--------|--------|
| 0° | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 | 1658.9 |
| 2.5° | 1567.1 | 1559.4 | 1560.3 | 1558.4 | 1554.5 | 1554.5 |
| 5° | 1553.6 | 1545.8 | 1545.8 | 1543.9 | 1539.1 | 1540.0 |
| 7.5° | 1567.1 | 1554.5 | 1549.7 | 1542.9 | 1536.2 | 1536.2 |
| 10° | 1582.5 | 1560.3 | 1546.8 | 1535.2 | 1526.5 | 1526.5 |
| 12.5° | 1594.1 | 1559.4 | 1537.1 | 1521.7 | 1513.0 | 1513.0 |
| 15° | 1598.0 | 1552.6 | 1521.7 | 1503.3 | 1495.6 | 1494.6 |
| 17.5° | 1585.4 | 1526.5 | 1488.8 | 1467.6 | 1457.9 | 1455.0 |
| 20° | 1546.8 | 1479.2 | 1433.8 | 1409.6 | 1396.1 | 1391.2 |
| 22.5° | 1488.8 | 1411.5 | 1358.4 | 1333.3 | 1315.9 | 1313.0 |
| 25° | 1407.7 | 1324.6 | 1272.4 | 1248.3 | 1238.6 | 1235.7 |
| 27.5° | 1313.0 | 1235.7 | 1191.3 | 1175.8 | 1167.1 | 1166.1 |
| 30° | 1223.1 | 1157.4 | 1124.6 | 1113.0 | 1102.4 | 1100.4 |
| 32.5° | 1139.1 | 1097.5 | 1085.0 | 1068.6 | 1043.4 | 1040.5 |
| 35° | 1079.2 | 1075.3 | 1066.6 | 1029.9 | 999.0 | 990.3 |
| 37.5° | 1042.5 | 1078.2 | 1033.8 | 961.3 | 939.1 | 937.2 |
| 40° | 1021.2 | 1048.3 | 971.9 | 946.8 | 948.8 | 946.8 |
| 42.5° | 972.9 | 1000.9 | 973.9 | 962.3 | 970.0 | 971.9 |
| 45° | 924.6 | 955.5 | 988.4 | 980.6 | 999.0 | 999.0 |
| 47.5° | 897.5 | 943.9 | 987.4 | 987.4 | 1014.4 | 1024.1 |
| 50° | 866.6 | 934.3 | 971.9 | 985.5 | 1006.7 | 999.0 |
| 52.5° | 864.7 | 917.8 | 949.7 | 973.9 | 983.5 | 974.8 |
| 55° | 867.6 | 904.3 | 927.5 | 954.5 | 966.1 | 967.1 |
| 57.5° | 871.5 | 896.6 | 912.0 | 924.6 | 959.4 | 959.4 |
| 60° | 881.1 | 889.8 | 898.5 | 905.3 | 950.7 | 951.6 |
| 62.5° | 896.6 | 883.1 | 881.1 | 887.9 | 945.9 | 942.0 |
| 65° | 920.7 | 873.4 | 858.9 | 865.7 | 941.0 | 929.4 |
| 67.5° | 953.6 | 858.9 | 830.9 | 835.7 | 937.2 | 912.0 |
| 70° | 983.5 | 835.7 | 796.1 | 791.3 | 900.4 | 856.0 |
| 72.5° | 986.4 | 808.7 | 747.8 | 733.3 | 782.6 | 740.1 |
| 75° | 938.1 | 790.3 | 694.7 | 652.1 | 646.3 | 640.6 |
| 77.5° | 845.4 | 779.7 | 632.8 | 566.2 | 554.6 | 558.4 |
| 80° | 707.2 | 740.1 | 558.4 | 479.2 | 542.0 | 535.2 |
| 82.5° | 528.5 | 653.1 | 474.4 | 424.1 | 423.2 | 373.9 |
| 85° | 293.7 | 509.2 | 386.5 | 317.9 | 221.2 | 214.5 |
| 87.5° | 82.1 | 283.1 | 270.5 | 179.7 | 122.7 | 127.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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