

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: P192378

Luminaire Tested: **GAN-AF-10-LED-U-T4W-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-T4W-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58506 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

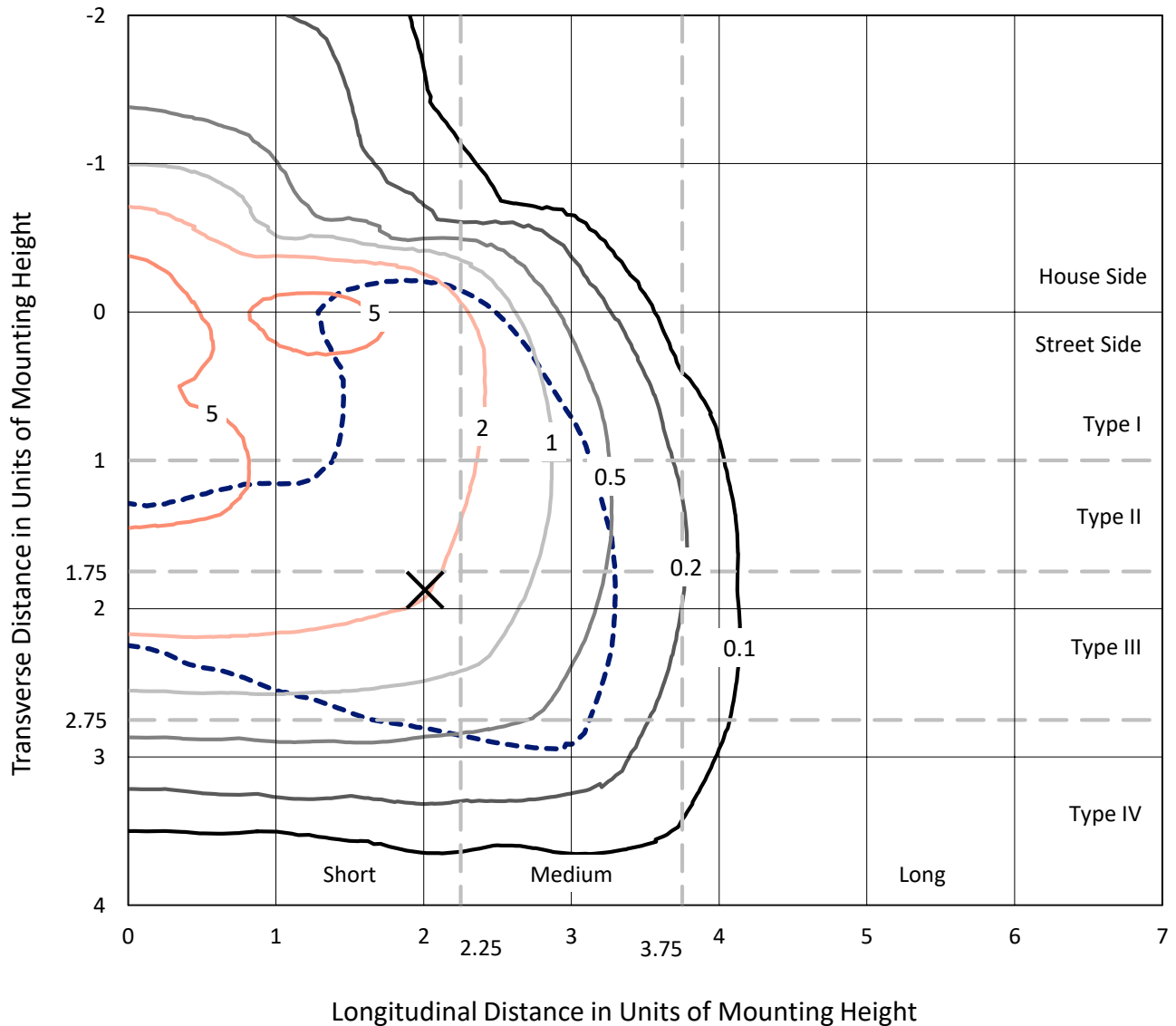
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

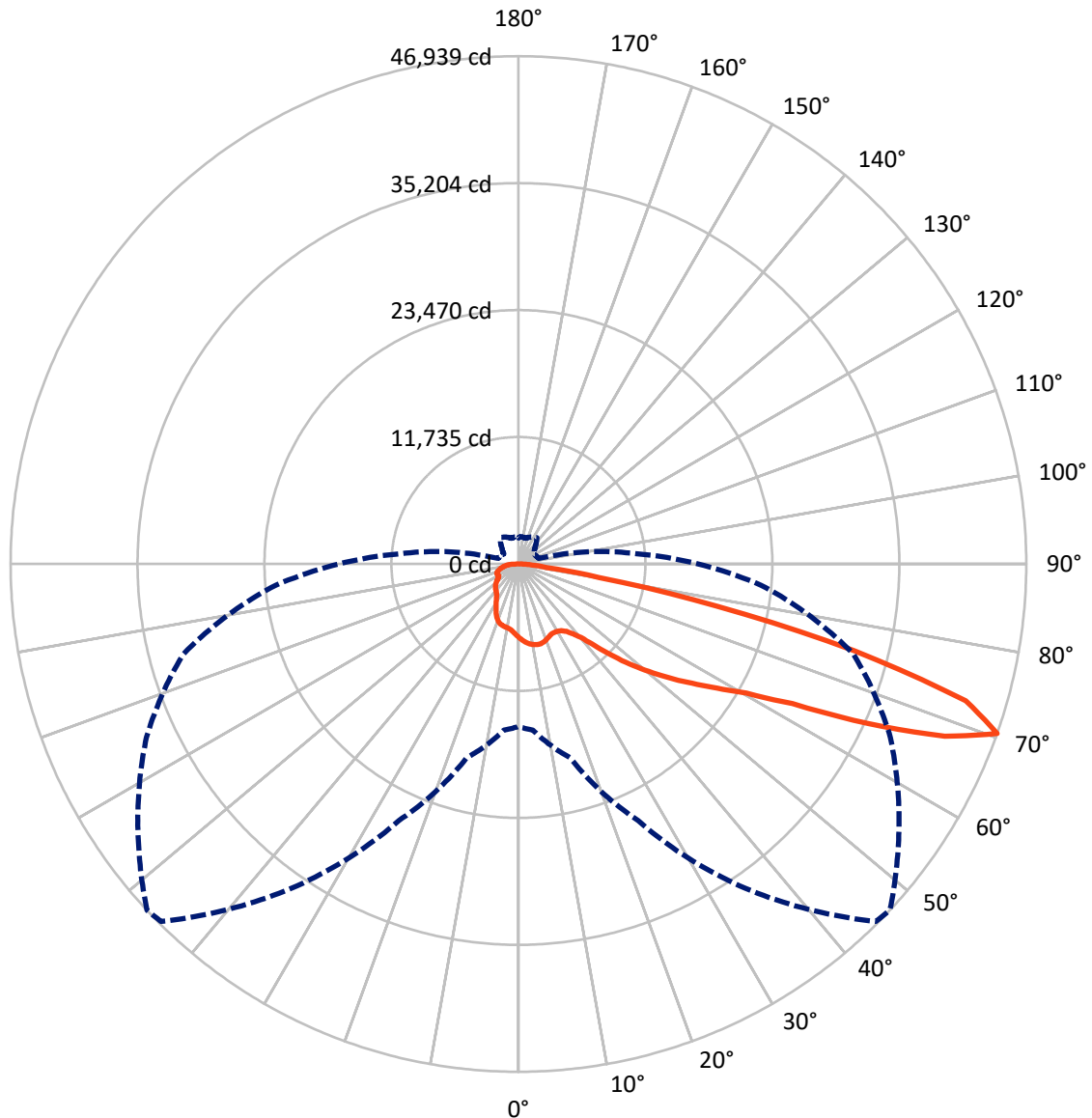
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12205.5 | 0.0 | 12205.5 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 46300.5 | 0.0 | 46300.5 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 58506.0 | 0.0 | 58506.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 650.4 | 1.1 |
| 10°-20° | 1908.3 | 3.3 |
| 20°-30° | 2818.0 | 4.8 |
| 30°-40° | 4095.9 | 7.0 |
| 40°-50° | 7371.2 | 12.6 |
| 50°-60° | 12769.8 | 21.8 |
| 60°-70° | 18226.2 | 31.2 |
| 70°-80° | 9356.3 | 16.0 |
| 80°-90° | 1309.9 | 2.2 |
| 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° | 58506.0 | 100.0 |
| 0°-180° | 58506.0 | 100.0 |

Coefficient of Utilization



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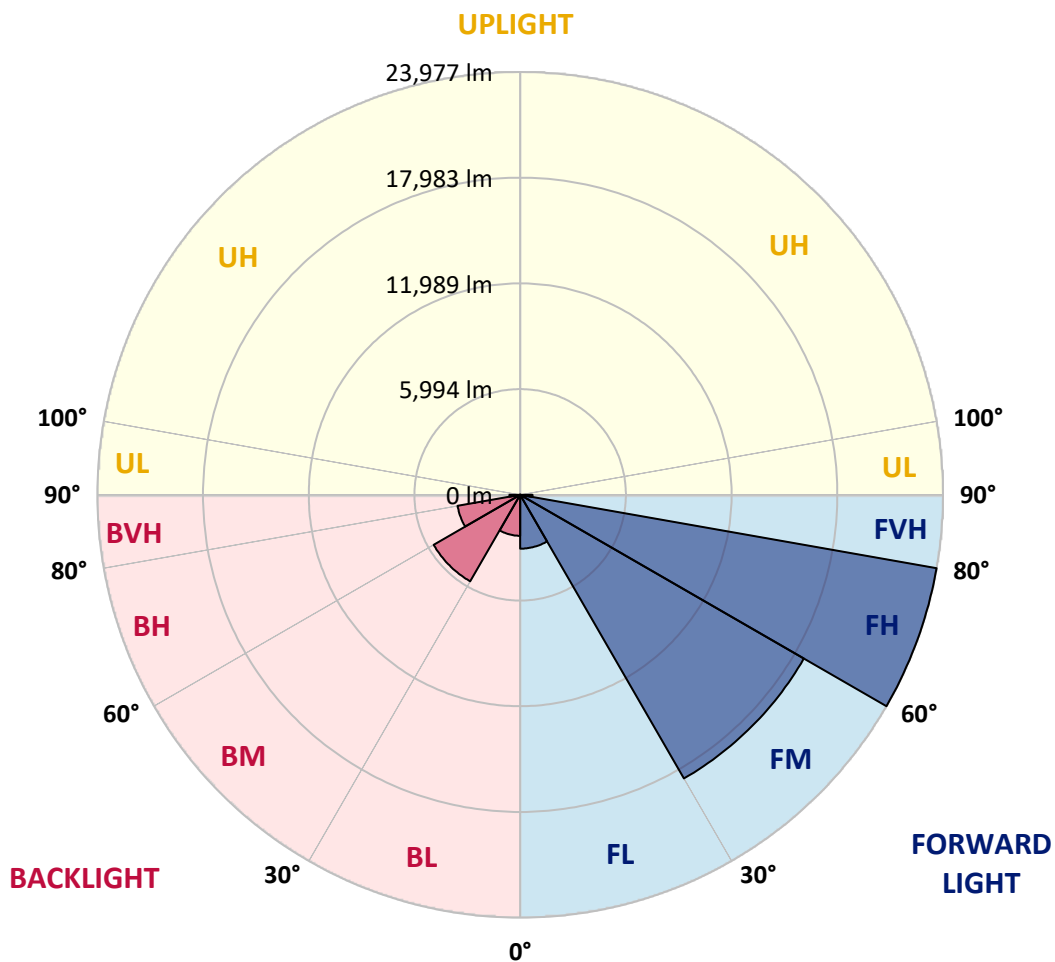
CATALOG NUMBER: GAN-AF-10-LED-U-T4W-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3052.7 | 5.2 | | | |
| FM | (30°-60°) | 18571.4 | 31.7 | | | |
| FH | (60°-80°) | 23977.4 | 41.0 | | | G5 |
| FVH | (80°-90°) | 699.0 | 1.2 | | | G4/750 |
| BL | (0°-30°) | 2324.0 | 4.0 | B3/2500 | | |
| BM | (30°-60°) | 5665.4 | 9.7 | B4/8500 | | |
| BH | (60°-80°) | 3605.1 | 6.2 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 610.9 | 1.0 | | | G4/750 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6788.5 | 6788.5 | 6788.5 | 6788.5 | 6788.5 | 6788.5 | 6788.5 | 6788.5 | 6788.5 | 6788.5 | 6788.5 |
| 2.5° | 7187.0 | 7172.8 | 7167.1 | 7155.7 | 7141.5 | 7070.3 | 7056.1 | 7004.8 | 6933.7 | 6859.7 | 6782.8 |
| 5° | 7659.5 | 7656.7 | 7625.3 | 7568.4 | 7477.3 | 7320.8 | 7283.8 | 7158.5 | 6990.6 | 6828.4 | 6666.1 |
| 7.5° | 8075.1 | 8049.4 | 7989.7 | 7875.8 | 7716.4 | 7502.9 | 7451.7 | 7278.1 | 7047.5 | 6825.5 | 6606.4 |
| 10° | 8379.6 | 8365.4 | 8234.5 | 8077.9 | 7870.1 | 7633.9 | 7574.1 | 7380.6 | 7127.2 | 6845.4 | 6572.2 |
| 12.5° | 8553.2 | 8524.8 | 8373.9 | 8186.1 | 7938.4 | 7707.9 | 7648.1 | 7451.7 | 7167.1 | 6845.4 | 6523.8 |
| 15° | 8541.9 | 8521.9 | 8371.1 | 8166.1 | 7915.7 | 7713.6 | 7659.5 | 7463.1 | 7158.5 | 6817.0 | 6461.2 |
| 17.5° | 8314.2 | 8322.7 | 8194.6 | 7992.5 | 7787.6 | 7633.9 | 7585.5 | 7403.3 | 7101.6 | 6760.1 | 6387.2 |
| 20° | 7915.7 | 7955.5 | 7870.1 | 7690.8 | 7577.0 | 7471.6 | 7440.3 | 7286.6 | 7013.4 | 6677.5 | 6307.5 |
| 22.5° | 7517.2 | 7554.2 | 7520.0 | 7369.2 | 7352.1 | 7289.5 | 7272.4 | 7161.4 | 6936.5 | 6626.3 | 6259.1 |
| 25° | 7224.0 | 7258.2 | 7252.5 | 7121.5 | 7172.8 | 7169.9 | 7155.7 | 7101.6 | 6919.4 | 6626.3 | 6267.6 |
| 27.5° | 7144.3 | 7155.7 | 7144.3 | 7024.8 | 7095.9 | 7152.8 | 7141.5 | 7132.9 | 6970.7 | 6708.8 | 6375.8 |
| 30° | 7417.6 | 7400.5 | 7312.2 | 7070.3 | 7135.8 | 7215.5 | 7204.1 | 7209.8 | 7124.4 | 6925.1 | 6617.7 |
| 32.5° | 8507.7 | 8430.9 | 8151.9 | 7471.6 | 7298.0 | 7340.7 | 7346.4 | 7440.3 | 7454.6 | 7258.2 | 6993.5 |
| 35° | 10138.7 | 10053.3 | 9691.8 | 8547.6 | 7801.8 | 7653.8 | 7653.8 | 7796.1 | 7881.5 | 7736.3 | 7577.0 |
| 37.5° | 11866.4 | 11772.5 | 11578.9 | 10039.0 | 8860.7 | 8197.5 | 8183.2 | 8282.8 | 8405.2 | 8439.4 | 8479.2 |
| 40° | 13830.4 | 13730.7 | 13784.8 | 11712.7 | 10337.9 | 9139.6 | 8937.5 | 8866.3 | 9196.5 | 9415.7 | 9734.5 |
| 42.5° | 15979.3 | 15933.8 | 15953.7 | 13577.0 | 12020.1 | 10548.5 | 10261.1 | 9893.9 | 10292.4 | 10682.3 | 11351.2 |
| 45° | 17968.9 | 18008.8 | 17988.9 | 15572.3 | 13893.0 | 12267.7 | 11963.2 | 11251.6 | 11641.5 | 12310.4 | 13400.6 |
| 47.5° | 19710.9 | 19545.8 | 19802.0 | 17752.6 | 15990.7 | 14191.8 | 13816.1 | 12862.6 | 13258.2 | 14083.7 | 15928.1 |
| 50° | 21825.7 | 21803.0 | 21427.2 | 20661.6 | 18526.8 | 16124.5 | 15632.1 | 14527.7 | 15142.5 | 16289.6 | 19113.2 |
| 52.5° | 24048.7 | 23636.0 | 23291.6 | 22924.4 | 21216.6 | 18105.6 | 17502.1 | 16187.1 | 17357.0 | 18800.1 | 22995.6 |
| 55° | 24504.1 | 24319.1 | 24746.1 | 25363.7 | 23809.6 | 20163.5 | 19460.4 | 18267.8 | 19850.4 | 21669.2 | 27472.9 |
| 57.5° | 25477.6 | 25474.7 | 26357.1 | 27458.6 | 26479.5 | 22346.6 | 21637.9 | 20781.1 | 22654.0 | 24956.7 | 32226.2 |
| 60° | 26135.1 | 26320.1 | 27959.6 | 30097.2 | 29101.0 | 24868.5 | 24216.6 | 23681.5 | 25841.9 | 28631.3 | 36655.1 |
| 62.5° | 26479.5 | 26730.0 | 28967.2 | 31167.4 | 32806.9 | 29066.8 | 28415.0 | 27643.6 | 30060.2 | 32661.7 | 39245.3 |
| 65° | 25047.8 | 25540.2 | 28810.6 | 32092.5 | 36051.7 | 35872.4 | 35579.2 | 34224.4 | 35334.4 | 35846.8 | 38308.9 |
| 67.5° | 21085.7 | 21589.5 | 25397.9 | 31230.0 | 38368.6 | 42436.1 | 42498.7 | 40184.6 | 38579.3 | 36120.0 | 32209.2 |
| 70° | 15023.0 | 15418.6 | 18569.5 | 26183.5 | 36603.9 | 46725.5 | 46939.0 | 42931.3 | 37933.2 | 32032.7 | 22503.2 |
| 72.5° | 7132.9 | 7374.9 | 10357.8 | 17041.0 | 29046.9 | 42811.8 | 43224.5 | 39424.6 | 32254.7 | 23715.7 | 12276.3 |
| 75° | 2621.5 | 2695.5 | 3501.0 | 7249.6 | 16847.5 | 31571.6 | 32058.3 | 28261.3 | 21381.7 | 11806.6 | 4676.5 |
| 77.5° | 1571.2 | 1619.6 | 1964.0 | 3059.8 | 6626.3 | 18045.8 | 18765.9 | 15370.2 | 9344.5 | 4394.7 | 2299.8 |
| 80° | 1098.7 | 1132.8 | 1408.9 | 1904.2 | 3131.0 | 6876.8 | 7517.2 | 6273.3 | 3723.0 | 2780.9 | 1673.6 |
| 82.5° | 742.9 | 760.0 | 990.5 | 1286.5 | 2080.7 | 2456.4 | 2649.9 | 2789.4 | 2510.5 | 2069.3 | 1061.7 |
| 85° | 486.7 | 503.8 | 671.7 | 848.2 | 1323.5 | 1269.5 | 1297.9 | 1642.3 | 1833.0 | 1406.1 | 589.2 |
| 87.5° | 278.9 | 290.3 | 404.2 | 452.6 | 649.0 | 538.0 | 543.7 | 865.3 | 1172.7 | 947.8 | 358.6 |
| 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: P192378

CATALOG NUMBER: GAN-AF-10-LED-U-T4W-7050

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6788.5 | 6788.5 | 6788.5 | 6788.5 | 6788.5 | 6788.5 | 6788.5 | 6788.5 | 6788.5 | 6788.5 | 6788.5 |
| 2.5° | 6762.9 | 6725.9 | 6643.4 | 6592.1 | 6543.7 | 6532.3 | 6512.4 | 6509.6 | 6506.7 | 6506.7 | 6498.2 |
| 5° | 6612.0 | 6549.4 | 6421.3 | 6350.2 | 6290.4 | 6284.7 | 6281.9 | 6296.1 | 6301.8 | 6307.5 | 6298.9 |
| 7.5° | 6515.3 | 6429.9 | 6270.5 | 6168.0 | 6096.9 | 6079.8 | 6108.2 | 6173.7 | 6216.4 | 6233.5 | 6224.9 |
| 10° | 6455.5 | 6350.2 | 6165.2 | 6054.2 | 5994.4 | 5985.8 | 6022.9 | 6099.7 | 6187.9 | 6222.1 | 6219.2 |
| 12.5° | 6387.2 | 6267.6 | 6071.2 | 5954.5 | 5920.4 | 5937.5 | 5985.8 | 6057.0 | 6148.1 | 6202.2 | 6205.0 |
| 15° | 6318.9 | 6179.4 | 5977.3 | 5874.8 | 5860.6 | 5883.4 | 5928.9 | 5983.0 | 6054.2 | 6108.2 | 6113.9 |
| 17.5° | 6236.3 | 6091.2 | 5889.1 | 5783.8 | 5772.4 | 5783.8 | 5786.6 | 5815.1 | 5860.6 | 5911.8 | 5926.1 |
| 20° | 6148.1 | 6000.1 | 5789.5 | 5684.1 | 5632.9 | 5587.4 | 5536.1 | 5541.8 | 5556.1 | 5607.3 | 5618.7 |
| 22.5° | 6085.5 | 5937.5 | 5712.6 | 5567.4 | 5430.8 | 5294.2 | 5191.7 | 5177.5 | 5183.2 | 5225.9 | 5240.1 |
| 25° | 6091.2 | 5934.6 | 5692.7 | 5442.2 | 5143.3 | 4924.2 | 4787.5 | 4764.8 | 4761.9 | 4793.2 | 4813.2 |
| 27.5° | 6202.2 | 6045.6 | 5766.7 | 5314.1 | 4830.2 | 4505.8 | 4360.6 | 4343.5 | 4320.7 | 4329.3 | 4352.1 |
| 30° | 6449.8 | 6304.6 | 5946.0 | 5183.2 | 4491.5 | 4095.9 | 3945.0 | 3927.9 | 3896.6 | 3882.4 | 3899.5 |
| 32.5° | 6854.0 | 6734.4 | 6207.9 | 5057.9 | 4152.8 | 3745.8 | 3592.1 | 3555.1 | 3535.2 | 3518.1 | 3532.3 |
| 35° | 7525.7 | 7474.5 | 6558.0 | 4921.3 | 3853.9 | 3475.4 | 3335.9 | 3279.0 | 3250.5 | 3281.8 | 3304.6 |
| 37.5° | 8578.9 | 8607.3 | 7016.2 | 4707.8 | 3623.4 | 3296.1 | 3179.4 | 3113.9 | 3071.2 | 3096.8 | 3122.4 |
| 40° | 10070.3 | 10090.3 | 7522.9 | 4406.1 | 3424.1 | 3190.7 | 3065.5 | 3005.7 | 2946.0 | 2900.4 | 2897.6 |
| 42.5° | 12028.6 | 11826.5 | 8021.0 | 4078.8 | 3193.6 | 3125.3 | 2985.8 | 2911.8 | 2820.7 | 2695.5 | 2669.9 |
| 45° | 14351.2 | 13642.5 | 8399.5 | 3703.1 | 2934.6 | 3045.6 | 2897.6 | 2795.1 | 2652.8 | 2516.2 | 2501.9 |
| 47.5° | 17026.8 | 15592.2 | 8584.6 | 3313.1 | 2692.6 | 2928.9 | 2789.4 | 2627.2 | 2447.9 | 2379.5 | 2371.0 |
| 50° | 20294.4 | 17906.3 | 8672.8 | 2934.6 | 2482.0 | 2775.2 | 2632.9 | 2442.2 | 2291.3 | 2277.1 | 2268.5 |
| 52.5° | 24014.6 | 20690.0 | 8701.3 | 2624.3 | 2308.4 | 2575.9 | 2504.8 | 2319.8 | 2200.2 | 2211.6 | 2211.6 |
| 55° | 27908.3 | 23564.8 | 8314.2 | 2399.5 | 2149.0 | 2371.0 | 2419.4 | 2271.4 | 2171.8 | 2217.3 | 2234.4 |
| 57.5° | 31483.4 | 26112.3 | 7095.9 | 2225.8 | 1998.1 | 2214.5 | 2388.1 | 2316.9 | 2248.6 | 2433.6 | 2445.0 |
| 60° | 34227.2 | 27618.0 | 5299.9 | 2069.3 | 1887.1 | 2160.4 | 2470.6 | 2490.5 | 2507.6 | 2948.8 | 3008.6 |
| 62.5° | 34802.2 | 27117.1 | 3643.3 | 1946.9 | 1835.9 | 2205.9 | 2621.5 | 2624.3 | 2604.4 | 2911.8 | 2948.8 |
| 65° | 32163.6 | 23949.1 | 2649.9 | 1878.6 | 1793.2 | 2288.5 | 2749.6 | 2689.8 | 2558.9 | 2792.3 | 2723.9 |
| 67.5° | 25543.0 | 18042.9 | 2205.9 | 1827.3 | 1730.6 | 2282.8 | 2886.2 | 2749.6 | 2533.2 | 2735.3 | 2624.3 |
| 70° | 16579.9 | 10910.0 | 1964.0 | 1784.7 | 1656.6 | 2174.6 | 2965.9 | 2743.9 | 2459.2 | 2544.6 | 2413.7 |
| 72.5° | 8089.3 | 4878.6 | 1801.7 | 1722.0 | 1579.7 | 2023.7 | 2963.0 | 2692.6 | 2382.4 | 2376.7 | 2305.5 |
| 75° | 3165.1 | 2234.4 | 1653.7 | 1628.1 | 1448.8 | 1853.0 | 2883.3 | 2618.6 | 2291.3 | 2200.2 | 2174.6 |
| 77.5° | 1853.0 | 1593.9 | 1465.9 | 1488.6 | 1292.2 | 1682.2 | 2766.6 | 2490.5 | 2166.1 | 2057.9 | 2029.4 |
| 80° | 1349.2 | 1192.6 | 1249.5 | 1286.5 | 1104.4 | 1511.4 | 2610.1 | 2334.0 | 2026.6 | 2080.7 | 2040.8 |
| 82.5° | 865.3 | 768.5 | 1013.3 | 1050.3 | 919.4 | 1337.8 | 2439.3 | 2168.9 | 1830.2 | 1662.3 | 1622.4 |
| 85° | 441.2 | 486.7 | 754.3 | 799.8 | 708.7 | 1098.7 | 2231.5 | 1949.7 | 1608.2 | 1383.3 | 1406.1 |
| 87.5° | 247.6 | 333.0 | 481.0 | 538.0 | 501.0 | 845.4 | 1810.3 | 1608.2 | 1312.2 | 1067.4 | 939.3 |
| 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)