

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: P193243

Luminaire Tested: **GAN-AF-05-LED-U-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32271.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

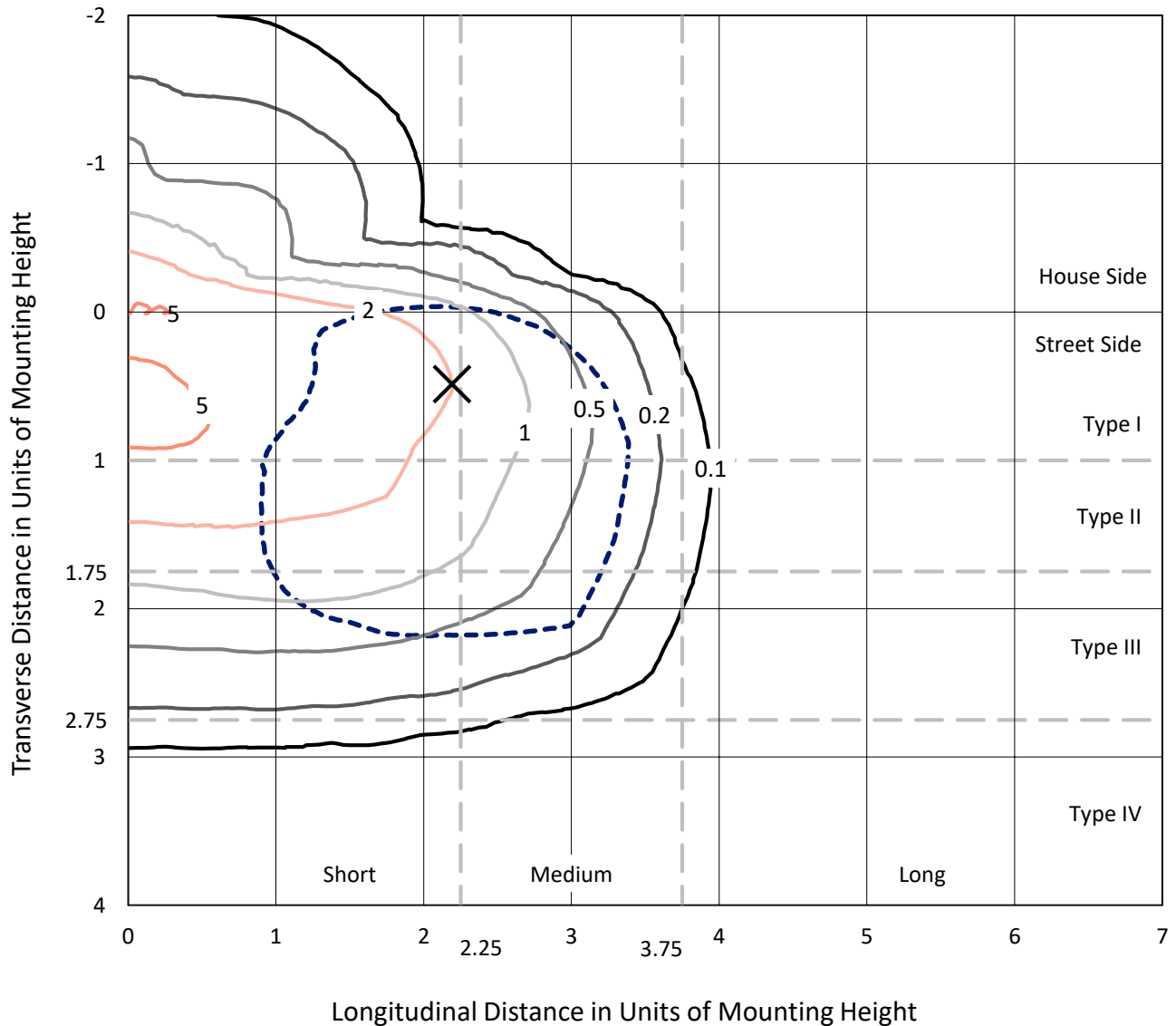


REPORT NUMBER: P193243

CATALOG NUMBER: GAN-AF-05-LED-U-T3R-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

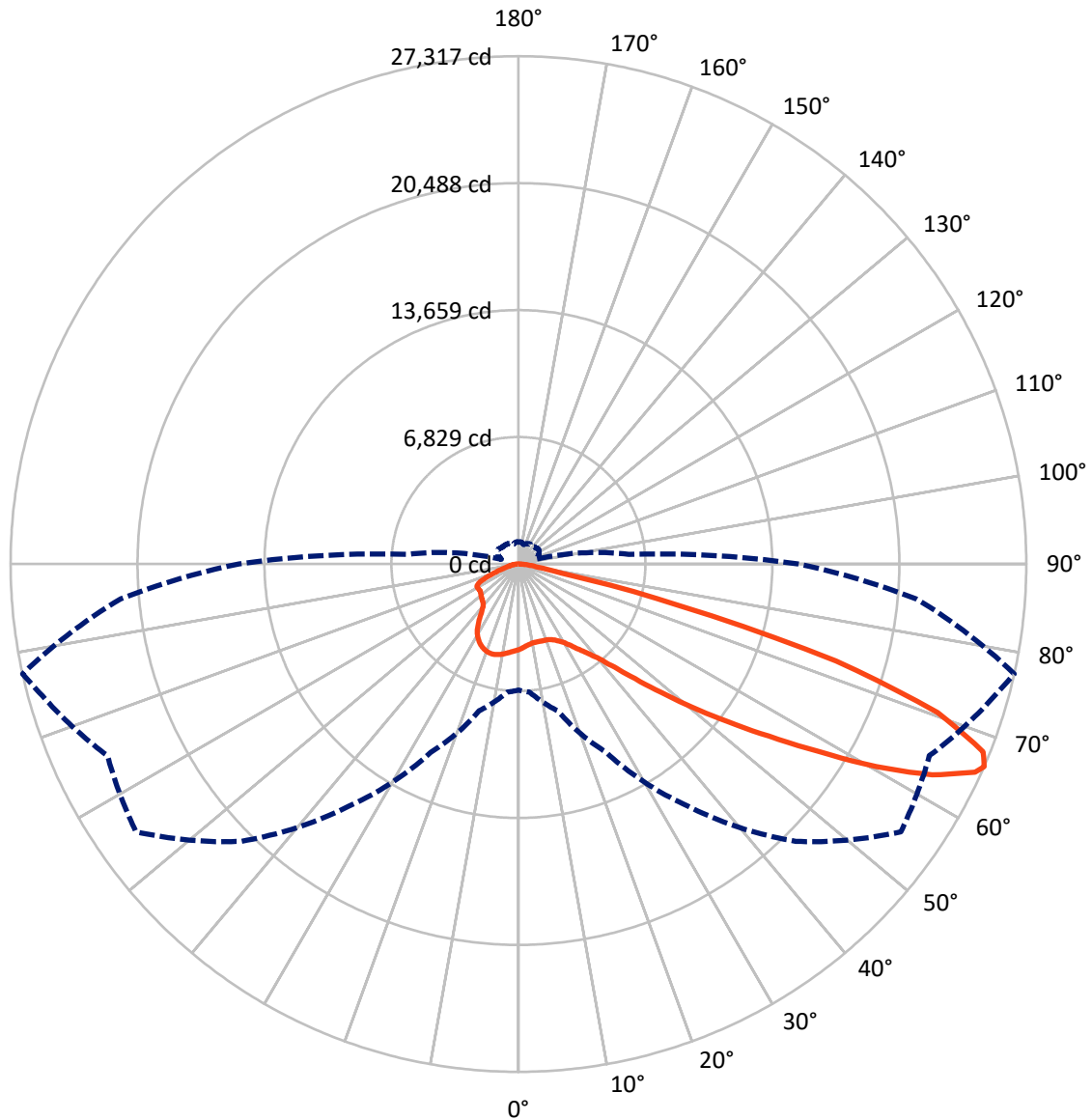


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193243

CATALOG NUMBER: GAN-AF-05-LED-U-T3R-7030-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



REPORT NUMBER: P193243

CATALOG NUMBER: GAN-AF-05-LED-U-T3R-7030-1200

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5513.4 | 0.0 | 5513.4 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 26758.5 | 0.0 | 26758.5 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 32271.9 | 0.0 | 32271.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 410.9 | 1.3 |
| 10°-20° | 1159.1 | 3.6 |
| 20°-30° | 1978.3 | 6.1 |
| 30°-40° | 3166.8 | 9.8 |
| 40°-50° | 4892.5 | 15.2 |
| 50°-60° | 6939.2 | 21.5 |
| 60°-70° | 9282.8 | 28.8 |
| 70°-80° | 4031.3 | 12.5 |
| 80°-90° | 411.1 | 1.3 |
| 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° | 32271.9 | 100.0 |
| 0°-180° | 32271.9 | 100.0 |



REPORT NUMBER: P193243

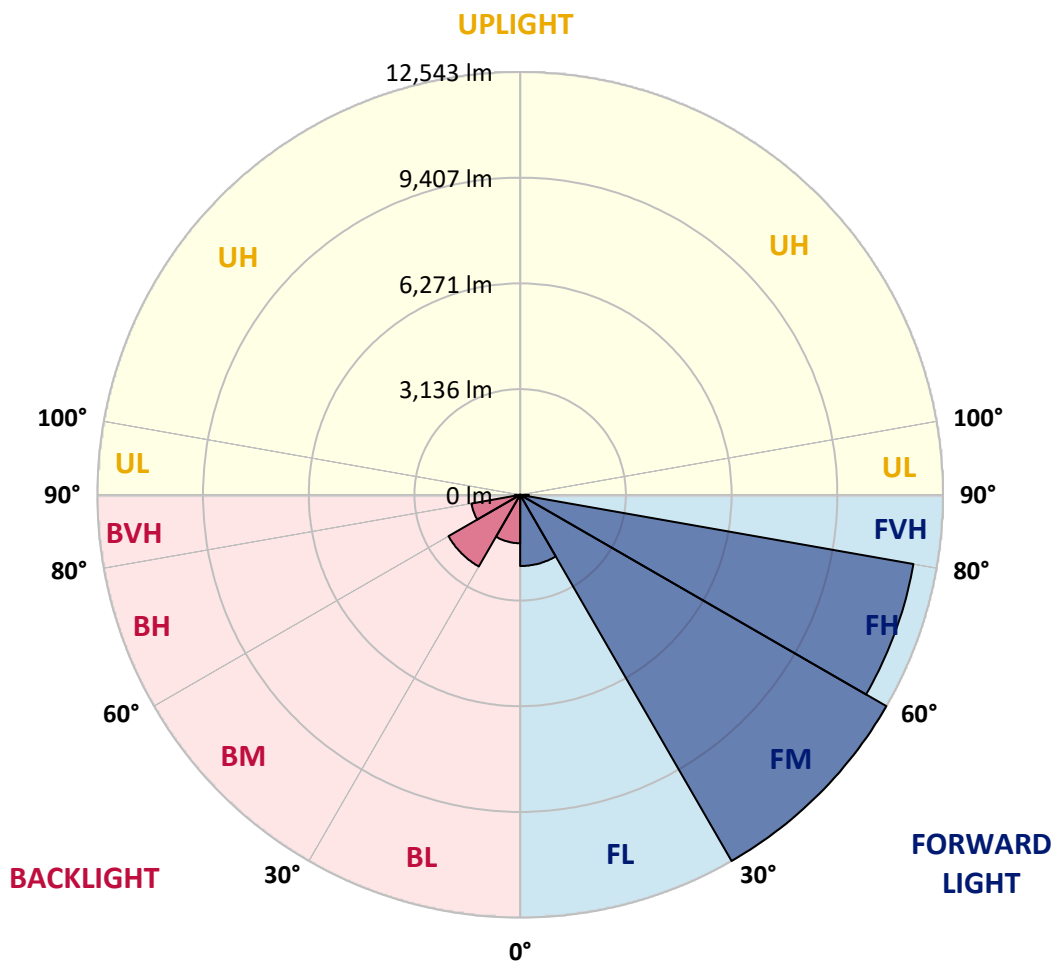
CATALOG NUMBER: GAN-AF-05-LED-U-T3R-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2112.3 | 6.5 | | | |
| FM (30°-60°) | 12542.6 | 38.9 | | | |
| FH (60°-80°) | 11845.7 | 36.7 | | | G4/12000 |
| FVH (80°-90°) | 257.8 | 0.8 | | | G3/500 |
| BL (0°-30°) | 1435.9 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 2455.9 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 1468.3 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 153.3 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P193243

CATALOG NUMBER: GAN-AF-05-LED-U-T3R-7030-1200

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4598.9 | 4598.9 | 4598.9 | 4598.9 | 4598.9 | 4598.9 | 4598.9 | 4598.9 | 4598.9 | 4598.9 | 4598.9 |
| 2.5° | 4068.3 | 4095.7 | 4118.5 | 4140.0 | 4182.7 | 4252.8 | 4333.6 | 4399.1 | 4493.8 | 4512.0 | 4562.3 |
| 5° | 3694.7 | 3694.7 | 3712.9 | 3745.0 | 3803.0 | 3908.2 | 4017.9 | 4164.3 | 4370.2 | 4419.0 | 4553.2 |
| 7.5° | 3513.2 | 3514.8 | 3525.5 | 3552.9 | 3603.2 | 3699.3 | 3819.7 | 3992.0 | 4271.1 | 4351.9 | 4580.5 |
| 10° | 3580.3 | 3565.0 | 3542.1 | 3528.4 | 3536.0 | 3592.6 | 3706.8 | 3899.0 | 4210.1 | 4313.8 | 4641.6 |
| 12.5° | 3955.4 | 3926.4 | 3847.1 | 3741.9 | 3641.3 | 3600.1 | 3667.2 | 3854.7 | 4184.2 | 4304.6 | 4722.4 |
| 15° | 4568.4 | 4556.2 | 4408.3 | 4190.2 | 3946.2 | 3741.9 | 3696.2 | 3838.1 | 4187.2 | 4315.3 | 4818.5 |
| 17.5° | 5336.9 | 5320.2 | 5125.0 | 4807.9 | 4409.8 | 4011.9 | 3798.4 | 3851.7 | 4197.8 | 4333.6 | 4911.5 |
| 20° | 6113.0 | 6061.2 | 5850.9 | 5472.6 | 4961.8 | 4379.3 | 3967.6 | 3886.8 | 4211.6 | 4353.4 | 5009.1 |
| 22.5° | 6692.4 | 6649.8 | 6460.7 | 6093.3 | 5504.7 | 4804.7 | 4194.8 | 3947.7 | 4255.8 | 4411.4 | 5129.5 |
| 25° | 7201.9 | 7204.9 | 7017.2 | 6662.0 | 6053.6 | 5256.1 | 4487.6 | 4111.0 | 4368.6 | 4530.3 | 5294.2 |
| 27.5° | 7831.6 | 7795.0 | 7619.6 | 7267.4 | 6596.4 | 5712.1 | 4841.4 | 4335.1 | 4536.3 | 4699.6 | 5510.7 |
| 30° | 8584.8 | 8559.0 | 8356.0 | 7956.6 | 7198.8 | 6201.5 | 5245.4 | 4595.9 | 4752.9 | 4922.1 | 5794.3 |
| 32.5° | 9470.7 | 9458.6 | 9248.1 | 8734.3 | 7894.1 | 6777.9 | 5719.6 | 4940.4 | 5076.1 | 5251.5 | 6201.5 |
| 35° | 10510.6 | 10512.2 | 10263.7 | 9646.1 | 8655.0 | 7448.9 | 6258.0 | 5384.2 | 5469.6 | 5652.5 | 6686.4 |
| 37.5° | 11151.1 | 11228.9 | 11135.8 | 10506.2 | 9516.5 | 8199.1 | 6956.3 | 5972.7 | 5917.9 | 6102.3 | 7206.4 |
| 40° | 11288.3 | 11382.8 | 11677.2 | 11357.0 | 10480.1 | 9025.5 | 7575.4 | 6538.5 | 6469.9 | 6695.5 | 7875.7 |
| 42.5° | 11096.3 | 11227.4 | 11849.5 | 12075.2 | 11503.4 | 10044.1 | 8407.9 | 7378.8 | 7291.8 | 7595.1 | 8708.3 |
| 45° | 10981.8 | 11079.4 | 11799.1 | 12448.8 | 12390.8 | 11195.4 | 9467.7 | 8433.8 | 8401.8 | 8799.8 | 9669.0 |
| 47.5° | 10783.7 | 10872.1 | 11564.3 | 12535.7 | 12912.3 | 12250.4 | 10740.9 | 9723.8 | 9786.4 | 10307.8 | 10753.1 |
| 50° | 10890.4 | 10926.9 | 11302.1 | 12314.6 | 13063.2 | 13023.6 | 12163.7 | 11218.2 | 11431.7 | 12082.8 | 11980.6 |
| 52.5° | 10875.1 | 10969.6 | 11271.6 | 11951.7 | 13083.0 | 13500.8 | 13565.0 | 12884.8 | 13334.6 | 14081.9 | 13342.3 |
| 55° | 8792.2 | 8966.1 | 10913.3 | 11860.2 | 13153.1 | 13969.1 | 14812.3 | 14641.5 | 15480.1 | 16350.7 | 14879.4 |
| 57.5° | 8395.7 | 8505.5 | 9585.1 | 12052.3 | 13525.3 | 14862.5 | 16199.9 | 16574.9 | 17977.8 | 18988.7 | 16751.8 |
| 60° | 8318.0 | 8453.7 | 9571.4 | 12287.1 | 14280.0 | 16318.8 | 18256.9 | 18915.6 | 21016.8 | 22123.8 | 18923.1 |
| 62.5° | 8075.6 | 8221.9 | 9481.4 | 12256.6 | 15352.0 | 18333.0 | 20890.3 | 21404.1 | 23898.8 | 24975.2 | 20739.3 |
| 65° | 7307.0 | 7444.3 | 8748.0 | 11764.1 | 16074.8 | 20483.1 | 24007.0 | 23685.2 | 26173.8 | 26983.4 | 21645.1 |
| 66° | 6780.9 | 6915.1 | 8170.1 | 11184.7 | 15907.0 | 21093.0 | 25110.9 | 24391.2 | 26683.1 | 27317.4 | 21468.2 |
| 67.5° | 5818.8 | 5923.9 | 7047.8 | 9887.0 | 15015.1 | 21263.8 | 26039.5 | 24921.9 | 26736.4 | 26960.6 | 20457.1 |
| 70° | 3676.3 | 3706.8 | 4580.5 | 6825.2 | 11366.1 | 18441.4 | 24626.1 | 23604.5 | 24531.6 | 23924.6 | 17149.8 |
| 72.5° | 1594.9 | 1584.3 | 2198.9 | 3472.0 | 6434.9 | 12374.0 | 19920.4 | 19476.7 | 19243.4 | 17858.9 | 12005.0 |
| 75° | 887.4 | 899.6 | 1142.1 | 1611.8 | 2615.1 | 6078.0 | 13031.3 | 12470.1 | 10529.0 | 8984.3 | 5443.7 |
| 77.5° | 712.2 | 728.9 | 947.0 | 1143.6 | 1174.1 | 2119.5 | 6097.8 | 4961.8 | 2987.1 | 2397.0 | 1512.5 |
| 80° | 562.6 | 593.2 | 826.4 | 890.5 | 791.4 | 873.7 | 1970.1 | 1575.2 | 1181.7 | 1084.2 | 783.7 |
| 82.5° | 445.2 | 466.6 | 709.1 | 674.0 | 553.5 | 588.6 | 943.9 | 919.5 | 768.5 | 700.0 | 452.9 |
| 85° | 320.2 | 359.9 | 582.5 | 507.7 | 363.0 | 396.5 | 626.7 | 600.8 | 440.7 | 359.9 | 199.7 |
| 87.5° | 131.1 | 170.8 | 411.7 | 336.9 | 202.7 | 184.5 | 312.6 | 294.4 | 208.9 | 152.5 | 99.1 |
| 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: P193243

CATALOG NUMBER: GAN-AF-05-LED-U-T3R-7030-1200

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4598.9 | 4598.9 | 4598.9 | 4598.9 | 4598.9 | 4598.9 | 4598.9 | 4598.9 | 4598.9 | 4598.9 | 4598.9 |
| 2.5° | 4594.4 | 4631.0 | 4678.2 | 4707.2 | 4722.4 | 4733.1 | 4749.8 | 4748.3 | 4752.9 | 4754.4 | 4760.5 |
| 5° | 4624.8 | 4685.8 | 4754.4 | 4772.8 | 4772.8 | 4755.9 | 4739.2 | 4711.7 | 4701.1 | 4698.0 | 4701.1 |
| 7.5° | 4704.1 | 4771.3 | 4830.7 | 4809.4 | 4763.6 | 4696.5 | 4609.5 | 4533.3 | 4492.2 | 4478.4 | 4475.4 |
| 10° | 4804.7 | 4885.5 | 4910.0 | 4829.2 | 4695.0 | 4533.3 | 4361.0 | 4236.0 | 4164.3 | 4144.5 | 4138.4 |
| 12.5° | 4926.7 | 5003.0 | 4969.4 | 4798.6 | 4550.1 | 4289.4 | 4051.5 | 3851.7 | 3702.2 | 3655.0 | 3652.0 |
| 15° | 5060.9 | 5120.4 | 5003.0 | 4704.1 | 4333.6 | 3949.2 | 3525.5 | 3180.7 | 2994.8 | 2935.4 | 2930.8 |
| 17.5° | 5186.0 | 5216.5 | 4983.2 | 4539.4 | 4014.8 | 3392.7 | 2830.2 | 2564.8 | 2500.7 | 2516.0 | 2519.0 |
| 20° | 5292.7 | 5292.7 | 4916.0 | 4303.0 | 3513.2 | 2659.3 | 2304.1 | 2299.5 | 2345.1 | 2390.9 | 2400.1 |
| 22.5° | 5410.1 | 5339.9 | 4798.6 | 3969.2 | 2802.6 | 2175.9 | 2124.1 | 2166.8 | 2218.6 | 2269.0 | 2276.5 |
| 25° | 5555.0 | 5378.1 | 4635.6 | 3462.9 | 2203.4 | 1976.2 | 1996.0 | 2031.1 | 2057.1 | 2089.0 | 2093.6 |
| 27.5° | 5716.6 | 5426.9 | 4420.5 | 2766.0 | 1912.1 | 1851.2 | 1866.3 | 1878.6 | 1875.6 | 1887.8 | 1890.8 |
| 30° | 5910.3 | 5483.2 | 4126.1 | 2162.2 | 1791.7 | 1744.5 | 1717.0 | 1706.3 | 1706.3 | 1726.1 | 1733.7 |
| 32.5° | 6169.5 | 5567.2 | 3703.8 | 1852.7 | 1733.7 | 1668.2 | 1579.8 | 1540.1 | 1555.3 | 1622.4 | 1637.7 |
| 35° | 6454.6 | 5657.1 | 3132.0 | 1747.5 | 1721.5 | 1633.1 | 1495.9 | 1422.7 | 1424.2 | 1486.7 | 1506.5 |
| 37.5° | 6765.7 | 5771.5 | 2505.4 | 1727.6 | 1749.0 | 1634.6 | 1451.6 | 1351.0 | 1309.8 | 1309.8 | 1317.4 |
| 40° | 7163.7 | 5888.8 | 2028.1 | 1741.4 | 1806.9 | 1652.9 | 1428.8 | 1294.6 | 1178.7 | 1181.7 | 1187.8 |
| 42.5° | 7682.1 | 5989.6 | 1771.8 | 1770.3 | 1877.1 | 1677.3 | 1427.3 | 1219.9 | 1119.3 | 1187.8 | 1250.4 |
| 45° | 8258.5 | 6039.9 | 1659.0 | 1796.2 | 1933.5 | 1692.5 | 1402.9 | 1207.7 | 1126.9 | 1331.3 | 1450.1 |
| 47.5° | 8921.8 | 6010.9 | 1596.5 | 1805.4 | 1947.2 | 1692.5 | 1375.3 | 1236.6 | 1180.2 | 1541.6 | 1680.4 |
| 50° | 9649.1 | 5927.0 | 1535.5 | 1787.2 | 1942.6 | 1689.4 | 1401.4 | 1265.7 | 1200.0 | 1578.2 | 1674.3 |
| 52.5° | 10504.6 | 5856.9 | 1471.5 | 1747.5 | 1910.6 | 1672.8 | 1431.9 | 1253.4 | 1137.5 | 1434.9 | 1502.0 |
| 55° | 11480.5 | 5876.7 | 1399.8 | 1691.0 | 1860.2 | 1640.7 | 1421.1 | 1204.6 | 1072.0 | 1264.1 | 1305.2 |
| 57.5° | 12727.8 | 6113.0 | 1314.4 | 1619.3 | 1791.7 | 1587.3 | 1383.0 | 1181.7 | 1052.1 | 1146.6 | 1171.0 |
| 60° | 14120.0 | 6524.8 | 1207.7 | 1547.6 | 1706.3 | 1502.0 | 1354.0 | 1192.4 | 1061.2 | 1137.5 | 1149.7 |
| 62.5° | 15141.5 | 6764.1 | 1116.2 | 1442.4 | 1590.4 | 1407.4 | 1317.4 | 1206.1 | 1085.7 | 1169.5 | 1166.5 |
| 65° | 15419.1 | 6370.8 | 1001.8 | 1288.5 | 1433.4 | 1308.3 | 1271.7 | 1221.4 | 1096.3 | 1195.6 | 1181.7 |
| 66° | 15030.2 | 5946.9 | 951.5 | 1216.8 | 1354.0 | 1259.5 | 1248.9 | 1219.9 | 1091.8 | 1198.6 | 1175.6 |
| 67.5° | 14086.5 | 5077.8 | 864.6 | 1111.6 | 1227.5 | 1186.3 | 1212.2 | 1206.1 | 1079.6 | 1195.6 | 1163.5 |
| 70° | 11488.1 | 3464.4 | 739.5 | 925.5 | 1021.7 | 1044.5 | 1142.1 | 1157.4 | 1039.9 | 1142.1 | 1072.0 |
| 72.5° | 8026.7 | 2110.4 | 654.1 | 718.2 | 826.4 | 890.5 | 1046.0 | 1090.3 | 986.6 | 997.2 | 930.2 |
| 75° | 3879.1 | 1120.8 | 593.2 | 556.5 | 642.0 | 744.2 | 930.2 | 998.7 | 902.7 | 834.0 | 809.7 |
| 77.5° | 1209.2 | 684.6 | 503.2 | 448.3 | 503.2 | 600.8 | 777.7 | 875.2 | 803.6 | 698.3 | 689.2 |
| 80° | 649.5 | 503.2 | 387.4 | 359.9 | 398.0 | 471.1 | 611.5 | 730.4 | 690.7 | 626.7 | 559.6 |
| 82.5° | 428.6 | 326.3 | 286.7 | 279.0 | 303.4 | 359.9 | 454.4 | 605.4 | 605.4 | 536.8 | 390.4 |
| 85° | 221.1 | 199.7 | 196.6 | 196.6 | 212.0 | 239.4 | 309.5 | 466.6 | 497.1 | 283.6 | 234.8 |
| 87.5° | 109.8 | 114.4 | 106.7 | 111.3 | 119.0 | 117.5 | 147.9 | 234.8 | 280.6 | 172.3 | 143.3 |
| 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)