

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: P193216

Luminaire Tested: **GAN-AF-08-LED-U-T3R-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193216
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-08-LED-U-T3R-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31082.1 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

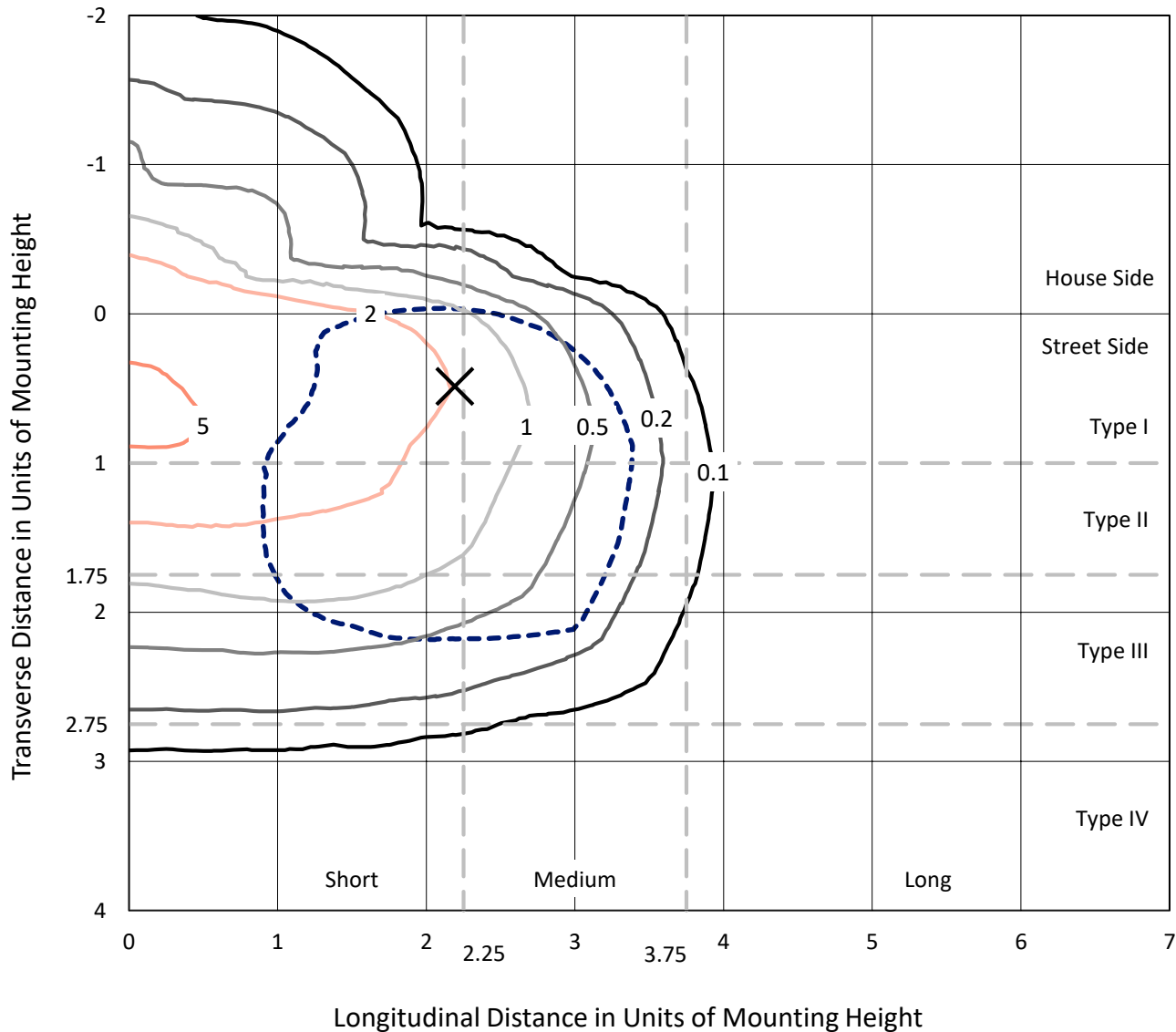


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

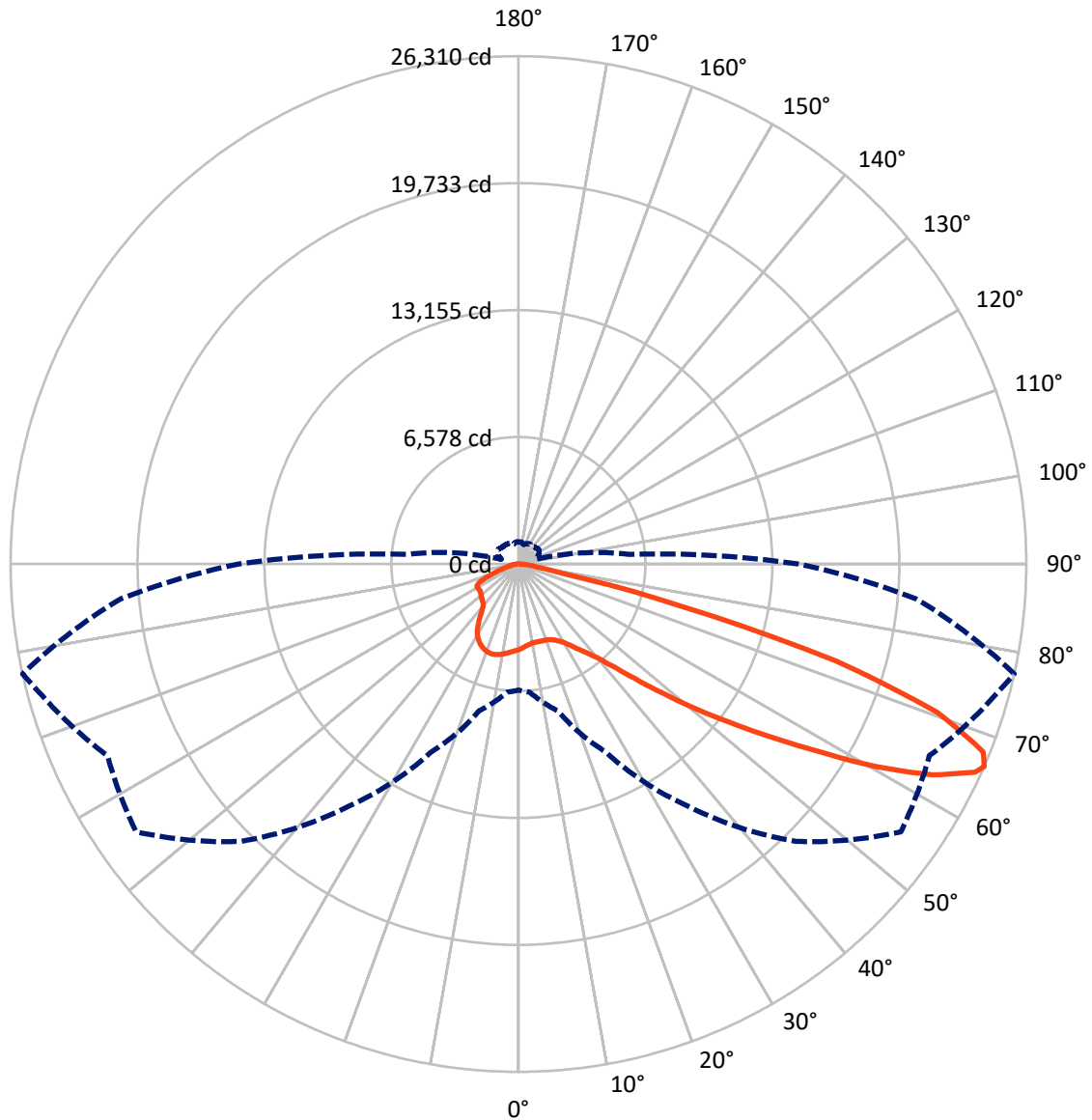


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5310.2 | 0.0 | 5310.2 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 25771.9 | 0.0 | 25771.9 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 31082.1 | 0.0 | 31082.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 395.7 | 1.3 |
| 10°-20° | 1116.4 | 3.6 |
| 20°-30° | 1905.3 | 6.1 |
| 30°-40° | 3050.1 | 9.8 |
| 40°-50° | 4712.1 | 15.2 |
| 50°-60° | 6683.4 | 21.5 |
| 60°-70° | 8940.5 | 28.8 |
| 70°-80° | 3882.7 | 12.5 |
| 80°-90° | 395.9 | 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° | 31082.1 | 100.0 |
| 0°-180° | 31082.1 | 100.0 |



REPORT NUMBER: P193216

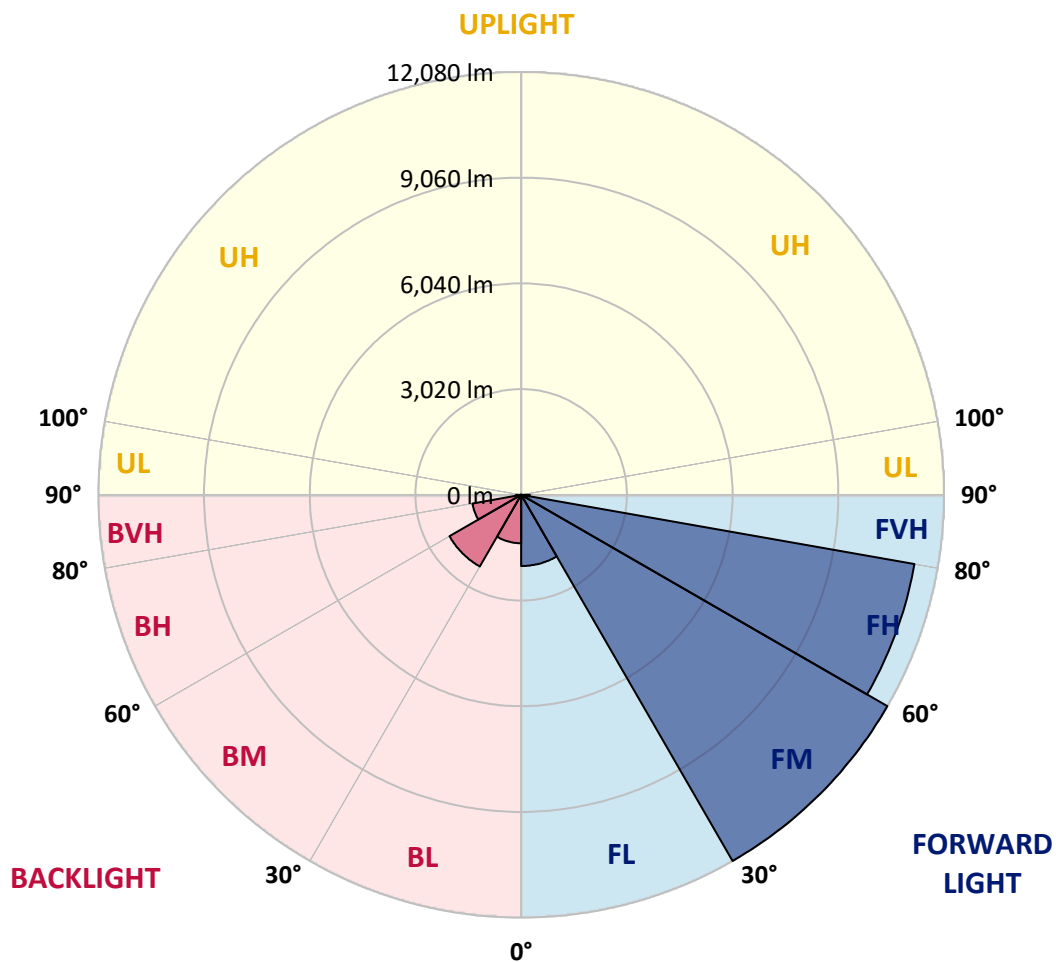
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2034.5 | 6.5 | | | |
| FM (30°-60°) | 12080.1 | 38.9 | | | |
| FH (60°-80°) | 11409.0 | 36.7 | | | G4/12000 |
| FVH (80°-90°) | 248.3 | 0.8 | | | G3/500 |
| BL (0°-30°) | 1383.0 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 2365.4 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 1414.2 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 147.6 | 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: P193216

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4429.4 | 4429.4 | 4429.4 | 4429.4 | 4429.4 | 4429.4 | 4429.4 | 4429.4 | 4429.4 | 4429.4 | 4429.4 |
| 2.5° | 3918.2 | 3944.7 | 3966.7 | 3987.3 | 4028.4 | 4096.0 | 4173.8 | 4237.0 | 4328.0 | 4345.7 | 4394.1 |
| 5° | 3558.5 | 3558.5 | 3576.0 | 3606.8 | 3662.7 | 3764.1 | 3869.9 | 4010.8 | 4209.1 | 4256.0 | 4385.3 |
| 7.5° | 3383.6 | 3385.2 | 3395.4 | 3421.9 | 3470.3 | 3562.8 | 3678.9 | 3844.9 | 4113.6 | 4191.4 | 4411.7 |
| 10° | 3448.3 | 3433.6 | 3411.6 | 3398.4 | 3405.7 | 3460.0 | 3570.1 | 3755.2 | 4054.8 | 4154.7 | 4470.5 |
| 12.5° | 3809.6 | 3781.7 | 3705.3 | 3604.0 | 3507.0 | 3467.5 | 3532.1 | 3712.6 | 4029.9 | 4146.0 | 4548.4 |
| 15° | 4400.0 | 4388.2 | 4245.9 | 4035.7 | 3800.8 | 3604.0 | 3559.8 | 3696.5 | 4032.9 | 4156.2 | 4640.8 |
| 17.5° | 5140.1 | 5124.0 | 4936.0 | 4630.5 | 4247.2 | 3864.0 | 3658.3 | 3709.7 | 4043.1 | 4173.8 | 4730.4 |
| 20° | 5887.7 | 5837.7 | 5635.0 | 5270.8 | 4778.9 | 4217.9 | 3821.4 | 3743.6 | 4056.4 | 4193.0 | 4824.5 |
| 22.5° | 6445.7 | 6404.7 | 6222.6 | 5868.6 | 5301.7 | 4627.5 | 4040.2 | 3802.2 | 4098.9 | 4248.6 | 4940.3 |
| 25° | 6936.3 | 6939.2 | 6758.6 | 6416.4 | 5830.4 | 5062.3 | 4322.2 | 3959.3 | 4207.6 | 4363.3 | 5099.0 |
| 27.5° | 7542.8 | 7507.5 | 7338.6 | 6999.3 | 6353.2 | 5501.4 | 4662.8 | 4175.3 | 4369.2 | 4526.3 | 5307.6 |
| 30° | 8268.3 | 8243.3 | 8048.0 | 7663.2 | 6933.4 | 5972.8 | 5052.0 | 4426.4 | 4577.6 | 4740.6 | 5580.8 |
| 32.5° | 9121.6 | 9109.8 | 8907.2 | 8412.2 | 7603.1 | 6528.0 | 5508.8 | 4758.3 | 4889.1 | 5057.9 | 5972.8 |
| 35° | 10123.2 | 10124.6 | 9885.2 | 9290.5 | 8335.8 | 7174.2 | 6027.2 | 5185.7 | 5267.9 | 5444.2 | 6439.8 |
| 37.5° | 10739.9 | 10814.9 | 10725.3 | 10118.7 | 9165.6 | 7896.7 | 6699.8 | 5752.6 | 5699.7 | 5877.4 | 6940.7 |
| 40° | 10872.2 | 10963.2 | 11246.6 | 10938.3 | 10093.8 | 8692.7 | 7296.2 | 6297.3 | 6231.4 | 6448.7 | 7585.5 |
| 42.5° | 10687.0 | 10813.4 | 11412.5 | 11630.0 | 11079.2 | 9673.9 | 8098.0 | 7106.7 | 7022.9 | 7315.1 | 8387.3 |
| 45° | 10577.0 | 10671.0 | 11364.2 | 11989.8 | 11934.0 | 10782.6 | 9118.7 | 8122.9 | 8092.1 | 8475.4 | 9312.5 |
| 47.5° | 10386.0 | 10471.2 | 11138.0 | 12073.4 | 12436.2 | 11798.9 | 10344.8 | 9365.3 | 9425.6 | 9927.9 | 10356.6 |
| 50° | 10488.9 | 10524.1 | 10885.4 | 11860.5 | 12581.6 | 12543.4 | 11715.1 | 10804.6 | 11010.2 | 11637.3 | 11538.9 |
| 52.5° | 10474.1 | 10565.3 | 10856.0 | 11511.0 | 12600.8 | 13003.2 | 13064.7 | 12409.7 | 12843.0 | 13562.7 | 12850.4 |
| 55° | 8468.0 | 8635.5 | 10510.8 | 11422.8 | 12668.3 | 13453.9 | 14266.1 | 14101.6 | 14909.4 | 15748.0 | 14330.8 |
| 57.5° | 8086.2 | 8191.9 | 9231.8 | 11607.9 | 13026.7 | 14314.6 | 15602.6 | 15963.9 | 17315.0 | 18288.7 | 16134.2 |
| 60° | 8011.3 | 8142.0 | 9218.5 | 11834.1 | 13753.5 | 15717.2 | 17583.7 | 18218.2 | 20241.9 | 21308.2 | 18225.5 |
| 62.5° | 7777.8 | 7918.8 | 9131.9 | 11804.7 | 14786.0 | 17657.2 | 20120.0 | 20614.9 | 23017.6 | 24054.4 | 19974.7 |
| 65° | 7037.6 | 7169.8 | 8425.4 | 11330.4 | 15482.1 | 19728.0 | 23121.9 | 22812.0 | 25208.8 | 25988.6 | 20847.0 |
| 66° | 6531.0 | 6660.1 | 7868.9 | 10772.3 | 15320.6 | 20315.3 | 24185.2 | 23492.0 | 25699.3 | 26310.2 | 20676.7 |
| 67.5° | 5604.2 | 5705.5 | 6787.9 | 9522.5 | 14461.4 | 20479.9 | 25079.6 | 24003.0 | 25750.7 | 25966.5 | 19702.9 |
| 70° | 3540.9 | 3570.1 | 4411.7 | 6573.5 | 10947.0 | 17761.4 | 23718.1 | 22734.1 | 23627.1 | 23042.6 | 16517.5 |
| 72.5° | 1536.1 | 1526.0 | 2117.8 | 3344.0 | 6197.5 | 11917.8 | 19186.0 | 18758.6 | 18533.9 | 17200.4 | 11562.4 |
| 75° | 854.7 | 866.5 | 1100.0 | 1552.3 | 2518.7 | 5853.9 | 12550.8 | 12010.4 | 10140.8 | 8653.2 | 5243.0 |
| 77.5° | 685.8 | 702.0 | 912.0 | 1101.5 | 1130.9 | 2041.4 | 5873.0 | 4778.9 | 2877.1 | 2308.6 | 1456.9 |
| 80° | 541.9 | 571.3 | 796.0 | 857.6 | 762.2 | 841.6 | 1897.4 | 1517.1 | 1138.2 | 1044.2 | 754.9 |
| 82.5° | 428.9 | 449.4 | 682.9 | 649.1 | 533.0 | 566.8 | 909.0 | 885.5 | 740.2 | 674.1 | 436.2 |
| 85° | 308.4 | 346.6 | 561.0 | 489.1 | 349.5 | 381.9 | 603.5 | 578.6 | 424.5 | 346.6 | 192.4 |
| 87.5° | 126.3 | 164.4 | 396.5 | 324.6 | 195.3 | 177.6 | 301.1 | 283.4 | 201.1 | 146.9 | 95.5 |
| 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: P193216

CATALOG NUMBER: GAN-AF-08-LED-U-T3R-7030-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4429.4 | 4429.4 | 4429.4 | 4429.4 | 4429.4 | 4429.4 | 4429.4 | 4429.4 | 4429.4 | 4429.4 | 4429.4 |
| 2.5° | 4424.9 | 4460.2 | 4505.8 | 4533.6 | 4548.4 | 4558.7 | 4574.6 | 4573.3 | 4577.6 | 4579.2 | 4585.1 |
| 5° | 4454.3 | 4513.1 | 4579.2 | 4596.7 | 4596.7 | 4580.5 | 4564.5 | 4538.0 | 4527.7 | 4524.8 | 4527.7 |
| 7.5° | 4530.7 | 4595.3 | 4652.6 | 4632.0 | 4587.9 | 4523.4 | 4439.6 | 4366.2 | 4326.5 | 4313.3 | 4310.4 |
| 10° | 4627.5 | 4705.5 | 4729.0 | 4651.0 | 4521.9 | 4366.2 | 4200.3 | 4079.8 | 4010.8 | 3991.7 | 3985.8 |
| 12.5° | 4745.1 | 4818.6 | 4786.2 | 4621.7 | 4382.4 | 4131.2 | 3902.0 | 3709.7 | 3565.7 | 3520.3 | 3517.4 |
| 15° | 4874.4 | 4931.6 | 4818.6 | 4530.7 | 4173.8 | 3803.8 | 3395.4 | 3063.5 | 2884.3 | 2827.1 | 2822.7 |
| 17.5° | 4994.8 | 5024.2 | 4799.4 | 4372.1 | 3866.9 | 3267.6 | 2725.8 | 2470.3 | 2408.5 | 2423.3 | 2426.1 |
| 20° | 5097.6 | 5097.6 | 4734.9 | 4144.4 | 3383.6 | 2561.2 | 2219.0 | 2214.6 | 2258.7 | 2302.7 | 2311.6 |
| 22.5° | 5210.7 | 5143.1 | 4621.7 | 3822.8 | 2699.4 | 2095.7 | 2045.8 | 2086.9 | 2136.8 | 2185.3 | 2192.7 |
| 25° | 5350.2 | 5179.8 | 4464.6 | 3335.2 | 2122.2 | 1903.3 | 1922.4 | 1956.2 | 1981.2 | 2012.0 | 2016.4 |
| 27.5° | 5505.8 | 5226.9 | 4257.5 | 2664.1 | 1841.7 | 1782.9 | 1797.6 | 1809.4 | 1806.4 | 1818.2 | 1821.2 |
| 30° | 5692.3 | 5281.1 | 3974.1 | 2082.5 | 1725.6 | 1680.1 | 1653.6 | 1643.4 | 1643.4 | 1662.5 | 1669.8 |
| 32.5° | 5942.1 | 5361.9 | 3567.4 | 1784.3 | 1669.8 | 1606.6 | 1521.4 | 1483.3 | 1498.0 | 1562.6 | 1577.2 |
| 35° | 6216.7 | 5448.5 | 3016.5 | 1683.0 | 1658.1 | 1572.9 | 1440.7 | 1370.2 | 1371.6 | 1432.0 | 1451.0 |
| 37.5° | 6516.2 | 5558.7 | 2412.9 | 1663.9 | 1684.4 | 1574.3 | 1398.1 | 1301.2 | 1261.5 | 1261.5 | 1268.9 |
| 40° | 6899.5 | 5671.7 | 1953.2 | 1677.1 | 1740.3 | 1592.0 | 1376.1 | 1246.8 | 1135.2 | 1138.2 | 1144.1 |
| 42.5° | 7398.9 | 5768.7 | 1706.5 | 1705.1 | 1807.9 | 1615.5 | 1374.6 | 1174.9 | 1078.0 | 1144.1 | 1204.2 |
| 45° | 7954.1 | 5817.2 | 1597.8 | 1730.0 | 1862.3 | 1630.1 | 1351.1 | 1163.2 | 1085.3 | 1282.0 | 1396.7 |
| 47.5° | 8592.9 | 5789.3 | 1537.6 | 1738.9 | 1875.4 | 1630.1 | 1324.7 | 1191.0 | 1136.8 | 1484.8 | 1618.4 |
| 50° | 9293.4 | 5708.5 | 1479.0 | 1721.3 | 1871.1 | 1627.2 | 1349.7 | 1218.9 | 1155.9 | 1520.1 | 1612.5 |
| 52.5° | 10117.3 | 5640.9 | 1417.2 | 1683.0 | 1840.2 | 1611.0 | 1379.1 | 1207.2 | 1095.6 | 1382.0 | 1446.6 |
| 55° | 11057.2 | 5660.0 | 1348.1 | 1628.7 | 1791.8 | 1580.2 | 1368.8 | 1160.3 | 1032.4 | 1217.4 | 1257.1 |
| 57.5° | 12258.6 | 5887.7 | 1266.0 | 1559.6 | 1725.6 | 1528.9 | 1332.0 | 1138.2 | 1013.4 | 1104.4 | 1127.9 |
| 60° | 13599.4 | 6284.1 | 1163.2 | 1490.7 | 1643.4 | 1446.6 | 1304.1 | 1148.5 | 1022.1 | 1095.6 | 1107.4 |
| 62.5° | 14583.4 | 6514.8 | 1075.0 | 1389.3 | 1531.9 | 1355.6 | 1268.9 | 1161.7 | 1045.6 | 1126.5 | 1123.5 |
| 65° | 14850.6 | 6135.9 | 964.9 | 1240.9 | 1380.5 | 1260.1 | 1224.8 | 1176.4 | 1055.9 | 1151.4 | 1138.2 |
| 66° | 14476.1 | 5727.6 | 916.4 | 1172.0 | 1304.1 | 1213.1 | 1202.8 | 1174.9 | 1051.5 | 1154.4 | 1132.3 |
| 67.5° | 13567.0 | 4890.5 | 832.7 | 1070.6 | 1182.1 | 1142.7 | 1167.6 | 1161.7 | 1039.8 | 1151.4 | 1120.6 |
| 70° | 11064.5 | 3336.7 | 712.3 | 891.4 | 984.0 | 1006.0 | 1100.0 | 1114.7 | 1001.6 | 1100.0 | 1032.4 |
| 72.5° | 7730.7 | 2032.5 | 630.0 | 691.7 | 796.0 | 857.6 | 1007.5 | 1050.1 | 950.2 | 960.5 | 895.8 |
| 75° | 3736.1 | 1079.5 | 571.3 | 536.0 | 618.3 | 716.6 | 895.8 | 961.9 | 869.3 | 803.4 | 779.8 |
| 77.5° | 1164.6 | 659.4 | 484.7 | 431.8 | 484.7 | 578.6 | 749.0 | 842.9 | 774.0 | 672.6 | 663.9 |
| 80° | 625.6 | 484.7 | 373.0 | 346.6 | 383.3 | 453.8 | 588.9 | 703.5 | 665.3 | 603.5 | 538.9 |
| 82.5° | 412.7 | 314.2 | 276.1 | 268.8 | 292.3 | 346.6 | 437.7 | 583.0 | 583.0 | 516.9 | 376.0 |
| 85° | 212.9 | 192.4 | 189.4 | 189.4 | 204.1 | 230.5 | 298.2 | 449.4 | 478.8 | 273.1 | 226.1 |
| 87.5° | 105.8 | 110.2 | 102.8 | 107.2 | 114.5 | 113.1 | 142.5 | 226.1 | 270.2 | 166.0 | 138.1 |
| 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)