Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P318891

Luminaire Tested: **GAN-SA7C-830-U-T4FT**

Issue Date: 3/3/2020

Report Generated By E0585644

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P318891 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 3/3/2020 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | GAN-SA7C-830-U-T4FT |
| Description: | GALLEON AREA AND ROADWAY LUMINAIRE |
| | (7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 39994 lumens |
| Efficiency: | N/A |
| Efficacy: | 102.3 lumens/watt |
| Luminous Opening: | Rectangular (W 2' x L: 1' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B3 - U0 - G5 |

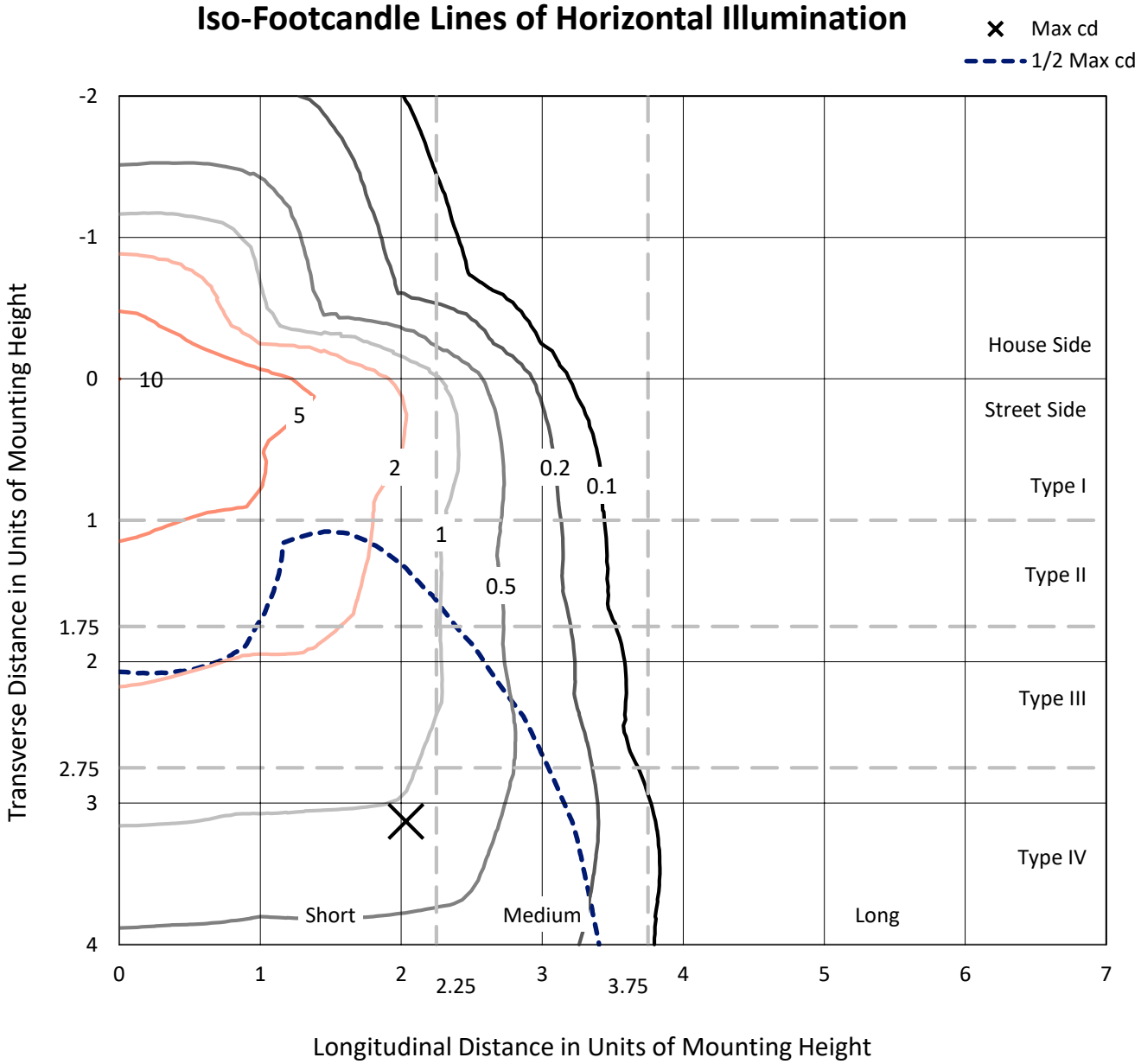
| | |
|---|---|
| Input Watts (W): | 391 |
| Input Voltage (V): | NR |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | NR |
| Total Harmonic Distortion (THDi): | NR |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 24 FT |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P318891
CATALOG NUMBER: GAN-SA7C-830-U-T4FT

## Iso-Footcandle Lines of Horizontal Illumination



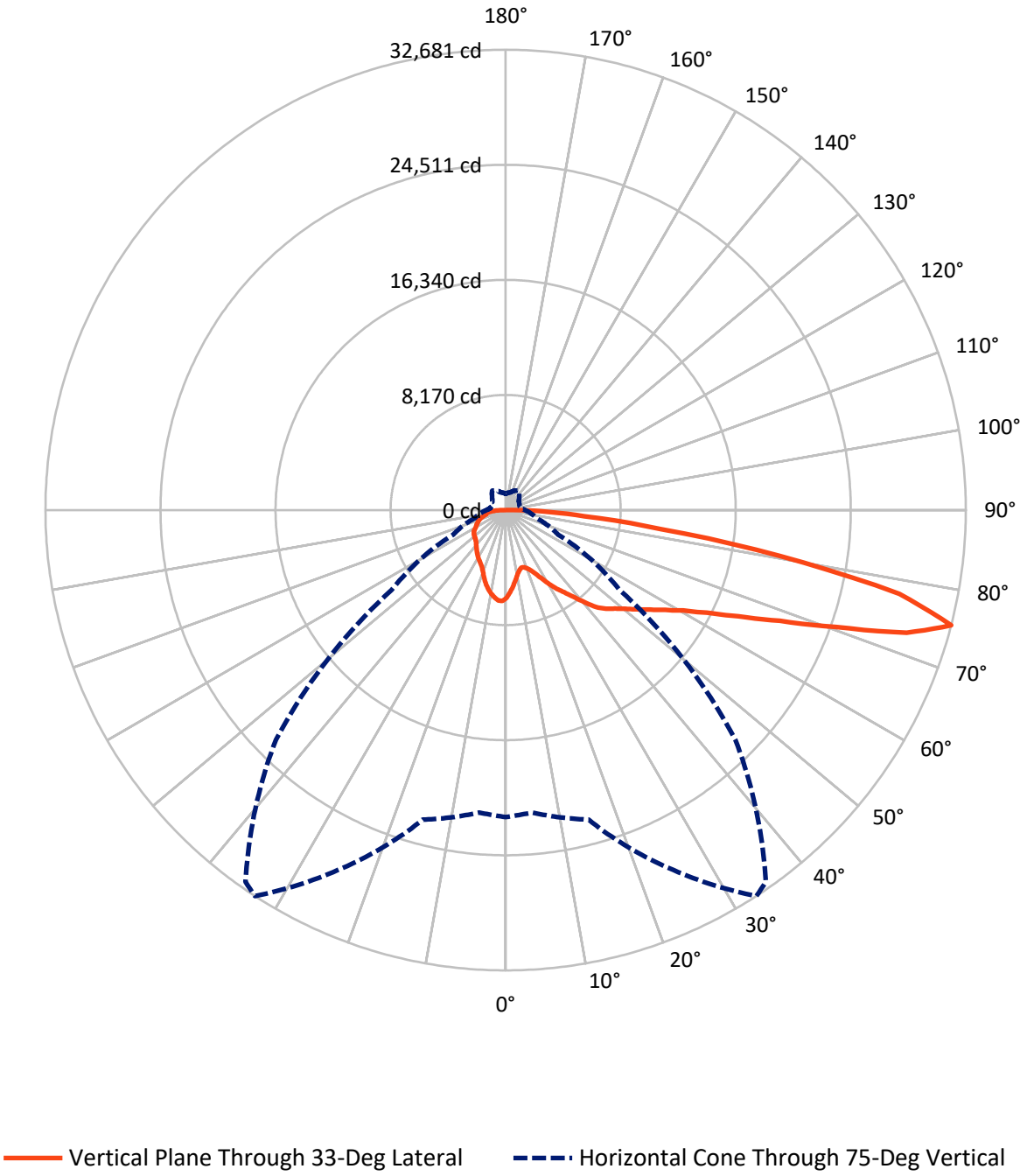

Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type IV - Short - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P318891
CATALOG NUMBER: GAN-SA7C-830-U-T4FT

## Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

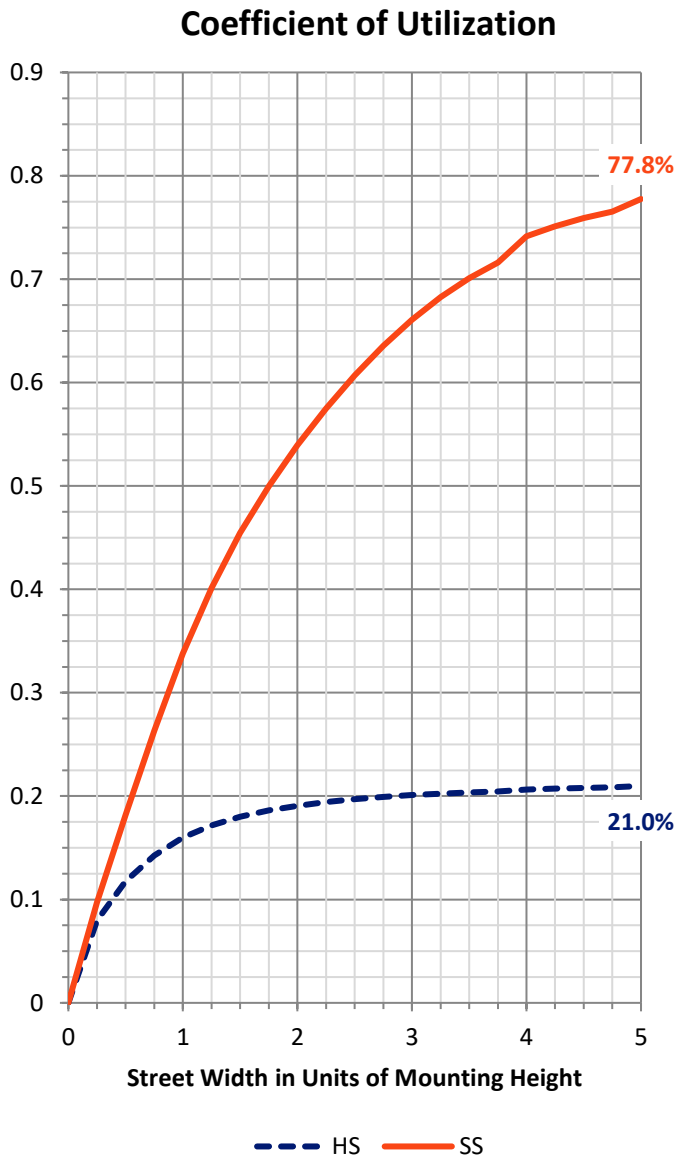
REPORT NUMBER: P318891
CATALOG NUMBER: GAN-SA7C-830-U-T4FT

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 8587.8 | 0.0 | 8587.8 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| **Street Side** | Lumens | 31406.2 | 0.0 | 31406.2 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| **Total** | Lumens | 39994.0 | 0.0 | 39994.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 565.3 | 1.4 |
| 10°-20° | 1531.2 | 3.8 |
| 20°-30° | 2500.7 | 6.3 |
| 30°-40° | 3724.1 | 9.3 |
| 40°-50° | 5341.4 | 13.4 |
| 50°-60° | 7332.9 | 18.3 |
| 60°-70° | 9180.5 | 23.0 |
| 70°-80° | 8305.1 | 20.8 |
| 80°-90° | 1512.8 | 3.8 |
| 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° | 39994.0 | 100.0 |
| 0°-180° | 39994.0 | 100.0 |



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

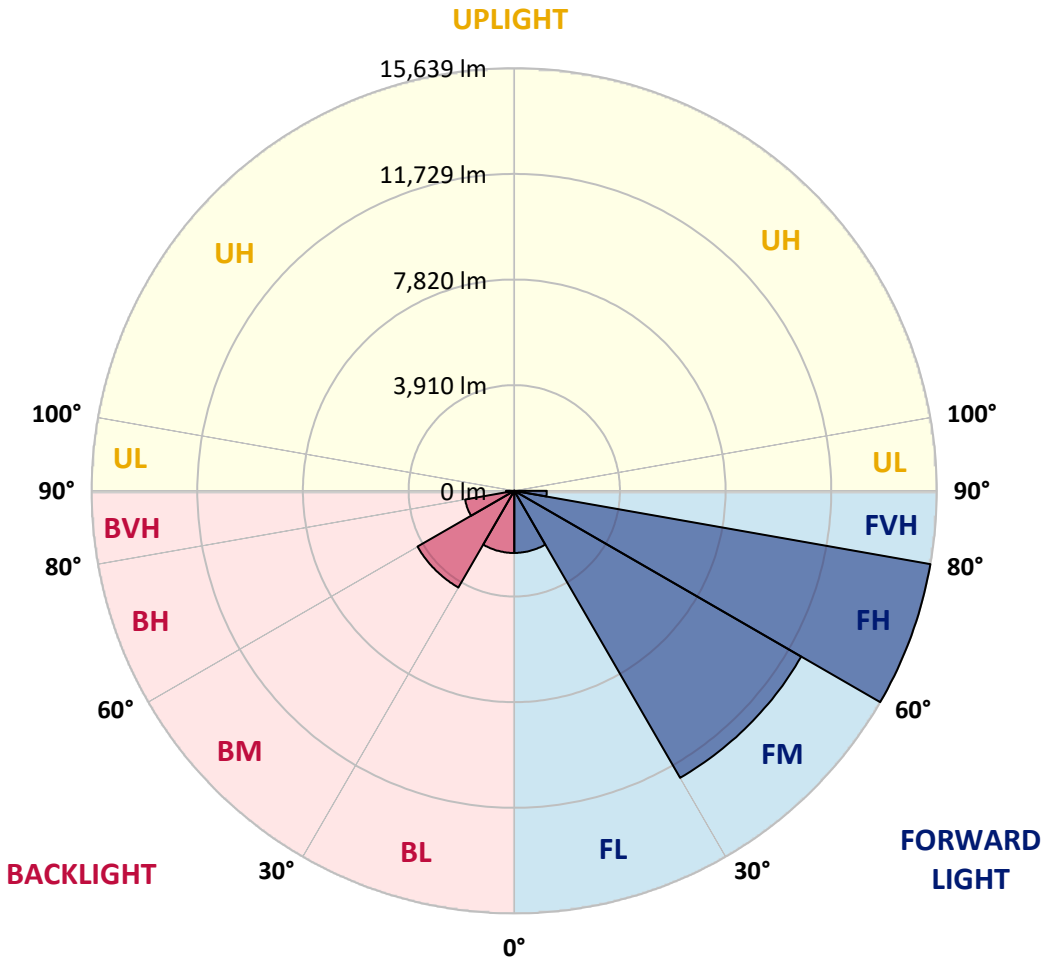
Scaled Data Report

REPORT NUMBER: P318891
CATALOG NUMBER: GAN-SA7C-830-U-T4FT

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 2297.0 | 5.7 | | | |
| FM | (30°-60°) | 12265.3 | 30.7 | | | |
| FH | (60°-80°) | 15639.0 | 39.1 | | | G5 |
| FVH | (80°-90°) | 1204.8 | 3.0 | | | G5 |
| BL | (0°-30°) | 2300.2 | 5.8 | B3/2500 | | |
| BM | (30°-60°) | 4133.0 | 10.3 | B3/5000 | | |
| BH | (60°-80°) | 1846.5 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 308.0 | 0.8 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B3-U0-G5**
Type IV Short



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P318891
CATALOG NUMBER: GAN-SA7C-830-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 6251.3 | 6251.3 | 6251.3 | 6251.3 | 6251.3 | 6251.3 | 6251.3 | 6251.3 | 6251.3 | 6251.3 | 6251.3 |
| 2.5° | 5805.1 | 5783.0 | 5824.4 | 5829.9 | 5865.8 | 5879.7 | 5929.4 | 6006.8 | 6070.3 | 6143.5 | 6209.8 |
| 5° | 5278.7 | 5263.5 | 5321.5 | 5363.0 | 5441.7 | 5474.9 | 5592.3 | 5756.7 | 5903.1 | 6068.9 | 6219.5 |
| 7.5° | 4778.6 | 4770.3 | 4835.2 | 4929.2 | 5020.4 | 5066.0 | 5269.0 | 5508.0 | 5752.6 | 6020.6 | 6251.3 |
| 10° | 4357.3 | 4354.5 | 4416.7 | 4509.2 | 4643.2 | 4694.3 | 4956.8 | 5271.8 | 5614.4 | 5983.3 | 6305.2 |
| 12.5° | 4121.0 | 4130.7 | 4159.7 | 4237.1 | 4361.4 | 4412.5 | 4704.0 | 5074.2 | 5498.4 | 5970.8 | 6383.9 |
| 15° | 4179.0 | 4194.2 | 4144.5 | 4141.7 | 4230.2 | 4270.2 | 4543.8 | 4933.3 | 5415.5 | 5991.6 | 6498.6 |
| 17.5° | 4426.3 | 4429.1 | 4297.8 | 4215.0 | 4268.8 | 4289.6 | 4494.0 | 4853.2 | 5367.1 | 6038.5 | 6642.3 |
| 20° | 4774.5 | 4767.6 | 4535.5 | 4397.3 | 4426.3 | 4431.9 | 4564.5 | 4854.6 | 5363.0 | 6120.0 | 6828.8 |
| 22.5° | 5235.9 | 5184.8 | 4872.5 | 4684.7 | 4677.8 | 4669.5 | 4745.5 | 4956.8 | 5423.8 | 6252.7 | 7051.2 |
| 25° | 5838.2 | 5789.9 | 5360.2 | 5103.3 | 5048.0 | 5027.3 | 5038.3 | 5175.1 | 5544.0 | 6395.0 | 7299.8 |
| 27.5° | 6508.2 | 6424.0 | 6009.5 | 5646.2 | 5531.5 | 5502.5 | 5436.2 | 5483.2 | 5675.2 | 6531.7 | 7595.5 |
| 30° | 7069.1 | 7023.5 | 6661.6 | 6230.6 | 6095.2 | 6053.7 | 5879.7 | 5828.5 | 5864.5 | 6718.2 | 7968.5 |
| 32.5° | 7382.7 | 7352.3 | 7132.7 | 6784.5 | 6658.8 | 6600.8 | 6354.9 | 6252.7 | 6168.4 | 7012.5 | 8474.1 |
| 35° | 7762.6 | 7743.3 | 7610.7 | 7357.9 | 7171.4 | 7110.6 | 6919.9 | 6813.6 | 6596.7 | 7417.3 | 9127.6 |
| 37.5° | 8246.2 | 8225.4 | 8228.2 | 8023.8 | 7801.3 | 7744.7 | 7619.0 | 7507.1 | 7152.0 | 7949.1 | 9837.7 |
| 40° | 8793.2 | 8753.2 | 8738.0 | 8728.3 | 8587.4 | 8555.6 | 8489.3 | 8337.4 | 7848.3 | 8584.6 | 10538.1 |
| 42.5° | 9616.6 | 9474.3 | 9170.4 | 9285.1 | 9424.6 | 9408.0 | 9461.9 | 9243.6 | 8621.9 | 9336.2 | 11221.9 |
| 45° | 10411.0 | 10177.5 | 9652.5 | 9677.4 | 9982.7 | 10075.3 | 10478.7 | 10323.9 | 9460.5 | 10159.5 | 11929.3 |
| 47.5° | 10772.9 | 10596.1 | 10149.9 | 10151.3 | 10453.8 | 10645.8 | 11530.0 | 11419.5 | 10341.9 | 11094.8 | 12792.7 |
| 50° | 11177.7 | 11000.9 | 10600.2 | 10750.8 | 11014.7 | 11219.2 | 12545.4 | 12488.8 | 11180.5 | 12118.5 | 13827.4 |
| 52.5° | 11619.8 | 11320.0 | 11065.8 | 11335.2 | 11705.4 | 11943.1 | 13562.2 | 13407.5 | 11950.0 | 13149.1 | 15016.9 |
| 55° | 11625.3 | 11543.8 | 11737.2 | 11934.8 | 12488.8 | 12780.3 | 14627.3 | 14218.4 | 12577.2 | 14161.8 | 15985.3 |
| 57.5° | 12287.1 | 12154.4 | 12564.7 | 12655.9 | 13379.8 | 13708.6 | 15686.9 | 14924.3 | 13215.4 | 14938.2 | 16507.5 |
| 60° | 13162.9 | 13049.6 | 13385.4 | 13625.7 | 14482.3 | 14921.6 | 16818.4 | 15649.6 | 13716.9 | 15523.9 | 16482.7 |
| 62.5° | 14675.7 | 14547.2 | 14543.0 | 14880.1 | 16033.7 | 16544.8 | 18088.0 | 16361.1 | 13915.8 | 15640.0 | 15779.5 |
| 65° | 16890.2 | 16685.8 | 16300.3 | 16460.6 | 18176.4 | 18686.2 | 19506.8 | 16876.4 | 13653.4 | 15018.3 | 13968.3 |
| 67.5° | 19045.4 | 19038.4 | 18564.6 | 18893.4 | 21005.7 | 21414.6 | 21123.1 | 16927.5 | 12834.1 | 12853.5 | 10755.0 |
| 70° | 21193.6 | 21221.2 | 21141.1 | 22285.0 | 24828.3 | 25253.8 | 22844.5 | 16240.9 | 10992.6 | 9282.3 | 6443.3 |
| 72.5° | 22895.6 | 22888.7 | 23292.1 | 26241.6 | 29789.3 | 29694.0 | 24295.1 | 14160.4 | 7892.5 | 5010.7 | 3079.4 |
| 75° | 21793.2 | 21552.8 | 22754.7 | 28200.6 | 32680.8 | 32215.2 | 23061.4 | 9877.7 | 4096.1 | 2280.9 | 1657.8 |
| 77.5° | 14214.3 | 14442.2 | 16206.4 | 23296.2 | 28586.0 | 28019.6 | 16919.2 | 4608.7 | 1930.0 | 1496.2 | 1201.9 |
| 80° | 5147.5 | 5387.8 | 7588.6 | 13196.1 | 19694.7 | 19602.1 | 8331.8 | 1894.0 | 1305.5 | 1130.1 | 875.9 |
| 82.5° | 1771.1 | 1859.5 | 2993.7 | 5860.3 | 11119.7 | 11534.1 | 3134.6 | 1076.2 | 949.1 | 801.3 | 599.6 |
| 85° | 694.9 | 795.7 | 1369.1 | 2819.6 | 5608.9 | 5650.3 | 1269.6 | 643.8 | 660.4 | 525.0 | 328.8 |
| 87.5° | 263.9 | 320.5 | 654.8 | 1309.7 | 2561.3 | 2352.7 | 454.5 | 306.7 | 375.8 | 312.2 | 156.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P318891
CATALOG NUMBER: GAN-SA7C-830-U-T4FT

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 6251.3 | 6251.3 | 6251.3 | 6251.3 | 6251.3 | 6251.3 | 6251.3 | 6251.3 | 6251.3 | 6251.3 | 6251.3 |
| 2.5° | 6261.0 | 6290.0 | 6350.8 | 6392.2 | 6436.4 | 6448.8 | 6454.4 | 6465.4 | 6476.5 | 6472.3 | 6473.7 |
| 5° | 6299.6 | 6356.3 | 6454.4 | 6495.8 | 6515.2 | 6493.0 | 6450.2 | 6415.7 | 6390.8 | 6377.0 | 6372.9 |
| 7.5° | 6363.2 | 6443.3 | 6548.3 | 6541.4 | 6497.2 | 6399.1 | 6288.6 | 6205.7 | 6136.6 | 6111.8 | 6097.9 |
| 10° | 6447.5 | 6541.4 | 6614.6 | 6535.9 | 6407.4 | 6237.5 | 6071.7 | 5943.2 | 5839.6 | 5799.5 | 5792.6 |
| 12.5° | 6555.2 | 6650.5 | 6664.4 | 6497.2 | 6284.4 | 6052.4 | 5827.2 | 5657.2 | 5502.5 | 5452.8 | 5441.7 |
| 15° | 6694.7 | 6784.5 | 6698.9 | 6429.5 | 6132.5 | 5820.3 | 5528.8 | 5298.1 | 5135.0 | 5074.2 | 5052.1 |
| 17.5° | 6841.2 | 6926.8 | 6705.8 | 6317.6 | 5933.5 | 5545.3 | 5179.2 | 4943.0 | 4756.5 | 4686.0 | 4677.8 |
| 20° | 7016.6 | 7055.3 | 6676.8 | 6157.3 | 5660.0 | 5188.9 | 4803.5 | 4581.1 | 4481.6 | 4431.9 | 4426.3 |
| 22.5° | 7233.5 | 7192.1 | 6610.5 | 5940.4 | 5313.2 | 4777.2 | 4463.6 | 4360.0 | 4335.1 | 4324.1 | 4328.2 |
| 25° | 7462.9 | 7335.8 | 6512.4 | 5657.2 | 4875.3 | 4365.5 | 4215.0 | 4244.0 | 4277.1 | 4273.0 | 4273.0 |
| 27.5° | 7715.7 | 7482.2 | 6361.8 | 5281.5 | 4390.4 | 4028.5 | 4046.4 | 4152.8 | 4202.5 | 4201.1 | 4199.8 |
| 30° | 8040.3 | 7648.0 | 6169.8 | 4829.7 | 3937.3 | 3790.8 | 3900.0 | 4029.8 | 4097.5 | 4094.8 | 4096.1 |
| 32.5° | 8439.6 | 7830.3 | 5908.7 | 4325.5 | 3609.9 | 3615.4 | 3741.1 | 3869.6 | 3948.3 | 3941.4 | 3942.8 |
| 35° | 8906.5 | 8034.8 | 5555.0 | 3828.1 | 3393.0 | 3475.9 | 3575.3 | 3665.1 | 3739.7 | 3730.0 | 3720.4 |
| 37.5° | 9414.9 | 8235.1 | 5085.3 | 3383.3 | 3216.1 | 3346.0 | 3428.9 | 3444.1 | 3478.6 | 3453.7 | 3435.8 |
| 40° | 9898.4 | 8388.5 | 4480.2 | 3018.6 | 3037.9 | 3235.5 | 3289.4 | 3228.6 | 3166.4 | 3158.1 | 3133.2 |
| 42.5° | 10319.8 | 8439.6 | 3868.2 | 2727.1 | 2850.0 | 3119.4 | 3152.6 | 3025.5 | 2913.6 | 2861.1 | 2839.0 |
| 45° | 10764.6 | 8457.5 | 3297.6 | 2482.6 | 2669.1 | 3015.8 | 3051.7 | 2881.8 | 2724.3 | 2611.0 | 2573.7 |
| 47.5° | 11346.3 | 8587.4 | 2854.2 | 2301.6 | 2530.9 | 2946.7 | 2997.9 | 2767.1 | 2562.7 | 2401.0 | 2366.5 |
| 50° | 12107.5 | 8844.4 | 2493.6 | 2163.4 | 2441.1 | 2901.1 | 2959.2 | 2655.2 | 2430.1 | 2235.3 | 2200.7 |
| 52.5° | 12952.9 | 9080.6 | 2202.1 | 2051.5 | 2354.1 | 2821.0 | 2909.4 | 2575.1 | 2305.7 | 2081.9 | 2044.6 |
| 55° | 13544.2 | 8899.6 | 1967.3 | 1935.5 | 2240.8 | 2706.4 | 2840.4 | 2507.4 | 2127.5 | 1932.7 | 1899.6 |
| 57.5° | 13657.5 | 8280.7 | 1789.0 | 1815.3 | 2104.0 | 2562.7 | 2734.0 | 2356.8 | 2030.8 | 1867.8 | 1833.3 |
| 60° | 13348.1 | 7418.7 | 1656.4 | 1704.8 | 1957.6 | 2381.7 | 2535.1 | 2250.5 | 1938.2 | 1798.7 | 1769.7 |
| 62.5° | 12570.3 | 6535.9 | 1558.3 | 1605.3 | 1820.8 | 2198.0 | 2410.7 | 2138.6 | 1844.3 | 1720.0 | 1691.0 |
| 65° | 10999.5 | 5487.3 | 1464.4 | 1516.9 | 1693.7 | 2039.1 | 2298.8 | 2034.9 | 1751.7 | 1656.4 | 1628.8 |
| 67.5° | 8302.8 | 4110.0 | 1376.0 | 1422.9 | 1580.4 | 1900.9 | 2177.2 | 1932.7 | 1661.9 | 1601.2 | 1568.0 |
| 70° | 4889.1 | 2573.7 | 1275.1 | 1324.9 | 1461.6 | 1757.3 | 2047.4 | 1820.8 | 1550.0 | 1522.4 | 1479.6 |
| 72.5° | 2275.3 | 1548.7 | 1160.5 | 1208.8 | 1312.4 | 1565.2 | 1880.2 | 1674.4 | 1417.4 | 1356.6 | 1298.6 |
| 75° | *1358.0* | *1132.8* | *1025.1* | *1067.9* | *1141.1* | *1360.8* | *1670.2* | *1525.2* | *1291.7* | *1211.6* | *1150.8* |
| 77.5° | 1015.4 | 866.2 | 875.9 | 921.5 | 980.9 | 1190.9 | 1479.6 | 1407.7 | 1195.0 | 1132.8 | 1091.4 |
| 80° | 730.8 | 657.6 | 714.2 | 764.0 | 826.1 | 1083.1 | 1417.4 | 1301.4 | 1080.3 | 997.4 | 958.8 |
| 82.5° | 487.7 | 472.5 | 537.4 | 588.5 | 649.3 | 947.7 | 1331.8 | 1139.7 | 922.8 | 817.8 | 732.2 |
| 85° | 269.4 | 284.6 | 362.0 | 384.1 | 436.6 | 667.3 | 1091.4 | 915.9 | 694.9 | 559.5 | 534.6 |
| 87.5° | 111.9 | 131.2 | 194.8 | 187.9 | 232.1 | 397.9 | 718.4 | 552.6 | 442.1 | 330.2 | 257.0 |
| 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)