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: P318630

Luminaire Tested: **GAN-SA6A-727-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: | P318630 |
| | 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-SA6A-727-U-T4FT |
| Description: | GALLEON AREA AND ROADWAY LUMINAIRE |
| | (6) 70 CRI, 2700K, 615mA 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: | 23449 lumens |
| Efficiency: | N/A |
| Efficacy: | 121.5 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B3 - U0 - G4 |

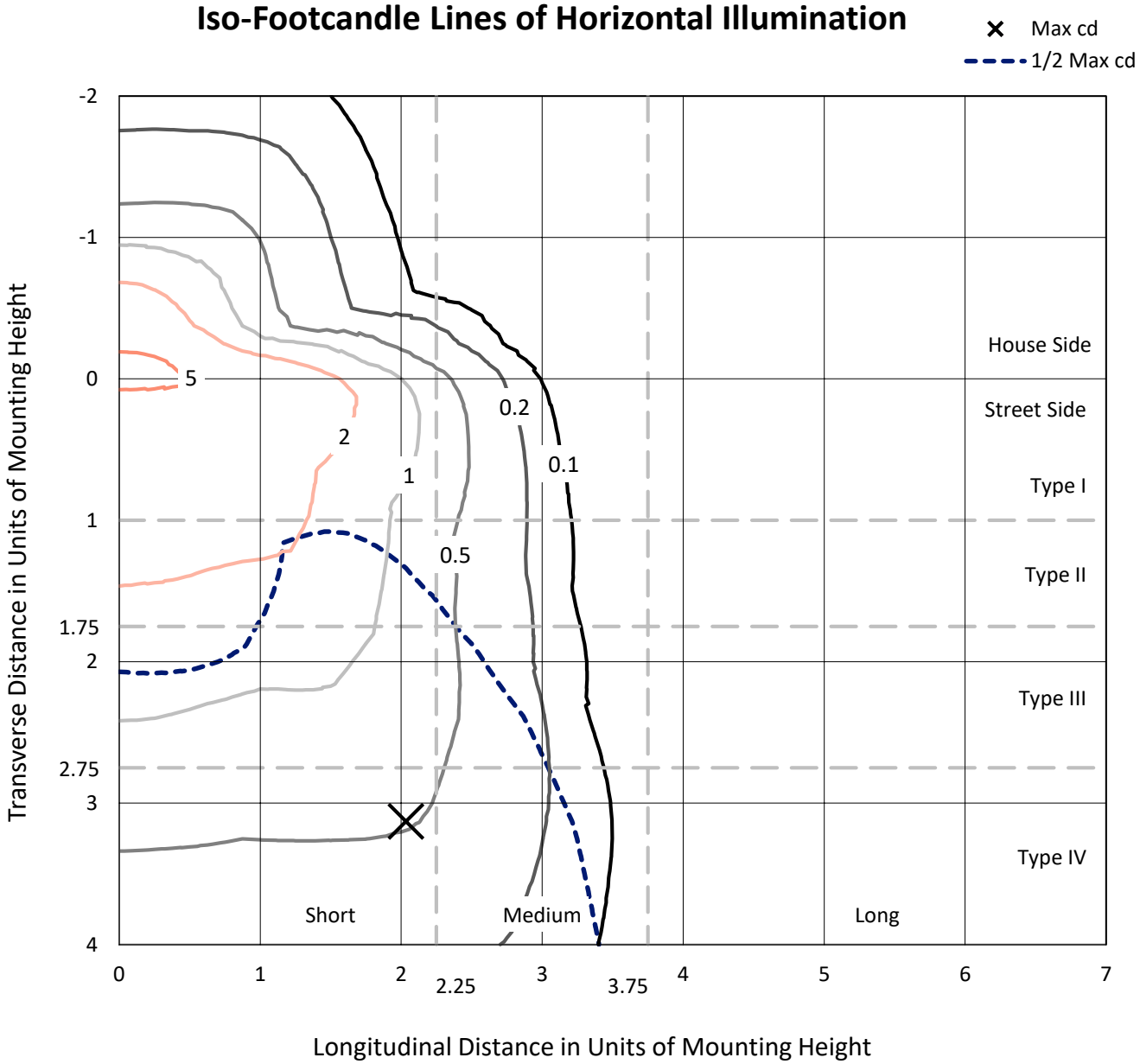
| | |
|---|---|
| Input Watts (W): | 193 |
| Input Voltage (V): | NR |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | NR |
| Total Harmonic Distortion (THDi): | NR |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 24 FT |

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

Scaled Data Report

REPORT NUMBER: P318630
CATALOG NUMBER: GAN-SA6A-727-U-T4FT

## Iso-Footcandle Lines of Horizontal Illumination



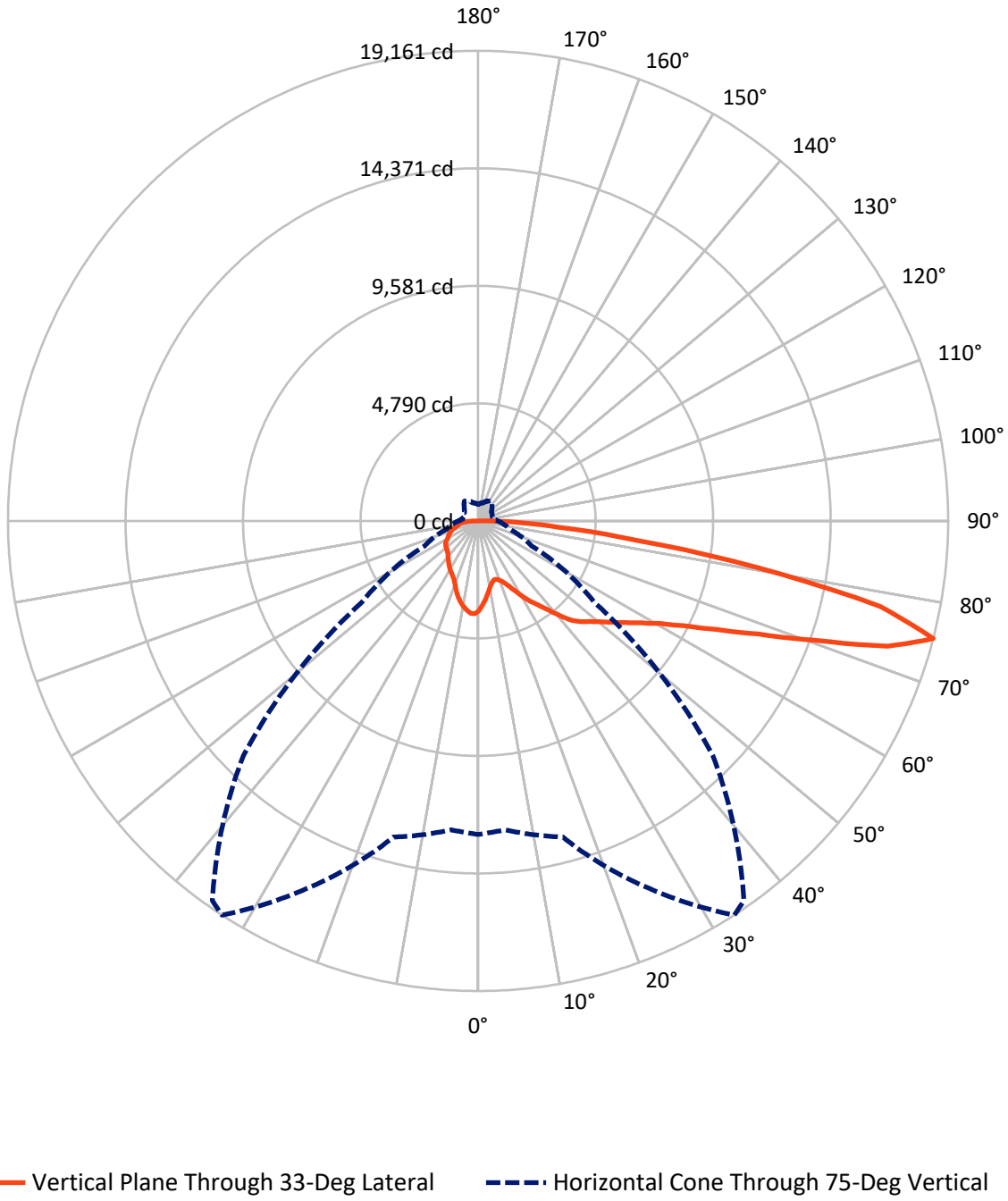

Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P318630
CATALOG NUMBER: GAN-SA6A-727-U-T4FT

## Luminous Intensity Polar Plot



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

Scaled Data Report

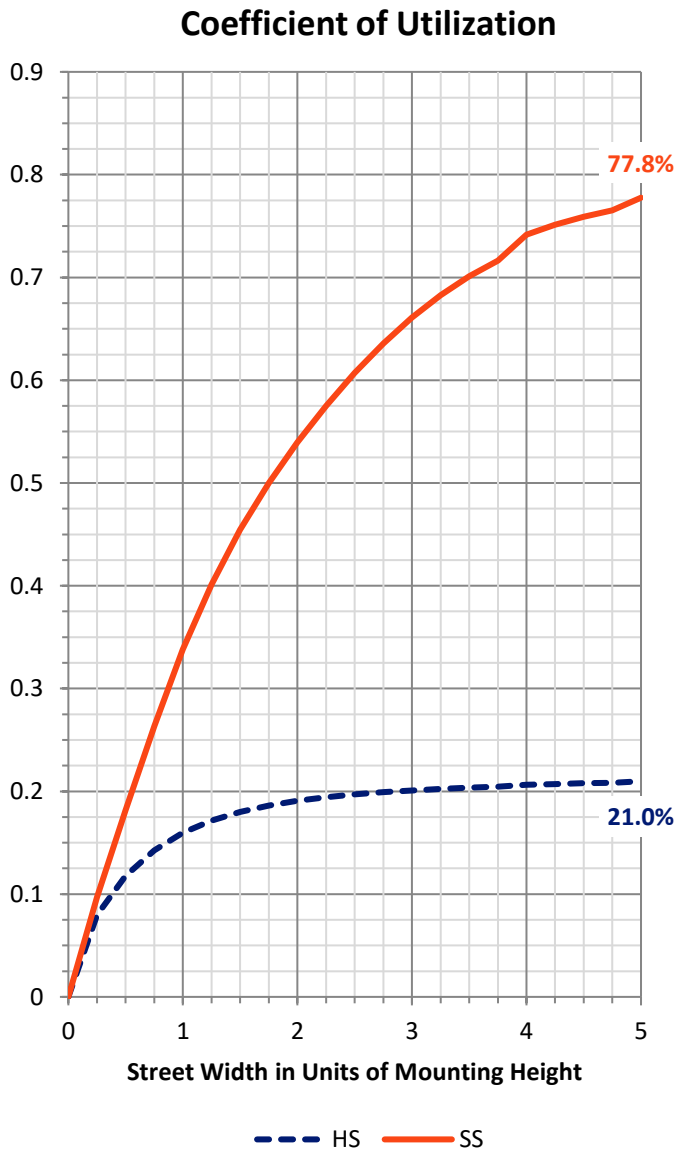
REPORT NUMBER: P318630
CATALOG NUMBER: GAN-SA6A-727-U-T4FT

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 5035.1 | 0.0 | 5035.1 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| **Street Side** | Lumens | 18413.9 | 0.0 | 18413.9 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| **Total** | Lumens | 23449.0 | 0.0 | 23449.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 331.5 | 1.4 |
| 10°-20° | 897.8 | 3.8 |
| 20°-30° | 1466.2 | 6.3 |
| 30°-40° | 2183.5 | 9.3 |
| 40°-50° | 3131.7 | 13.4 |
| 50°-60° | 4299.4 | 18.3 |
| 60°-70° | 5382.6 | 23.0 |
| 70°-80° | 4869.4 | 20.8 |
| 80°-90° | 887.0 | 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° | 23449.0 | 100.0 |
| 0°-180° | 23449.0 | 100.0 |



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

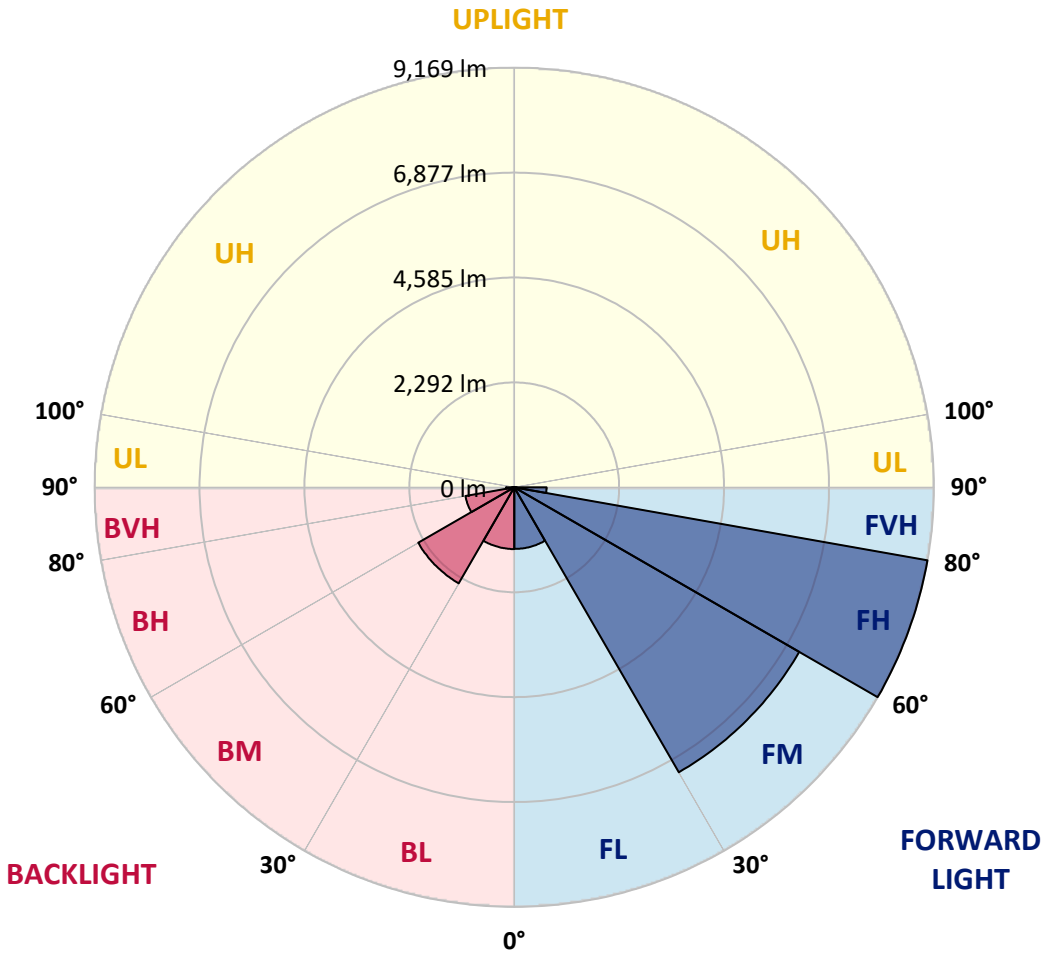
Scaled Data Report

REPORT NUMBER: P318630
CATALOG NUMBER: GAN-SA6A-727-U-T4FT

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1346.8 | 5.7 | | | |
| FM | (30°-60°) | 7191.3 | 30.7 | | | |
| FH | (60°-80°) | 9169.4 | 39.1 | | | G4/12000 |
| FVH | (80°-90°) | 706.4 | 3.0 | | | G4/750 |
| BL | (0°-30°) | 1348.6 | 5.8 | B3/2500 | | |
| BM | (30°-60°) | 2423.3 | 10.3 | B2/2500 | | |
| BH | (60°-80°) | 1082.6 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 180.6 | 0.8 | | | 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 IV Short



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

Scaled Data Report

REPORT NUMBER: P318630
CATALOG NUMBER: GAN-SA6A-727-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3665.2 | 3665.2 | 3665.2 | 3665.2 | *3665.2* | 3665.2 | 3665.2 | 3665.2 | 3665.2 | 3665.2 | 3665.2 |
| 2.5° | 3403.6 | 3390.6 | 3414.9 | 3418.2 | *3439.2* | 3447.3 | 3476.5 | 3521.8 | 3559.1 | 3602.0 | 3640.9 |
| 5° | 3095.0 | 3086.1 | 3120.1 | 3144.4 | *3190.6* | 3210.0 | 3278.8 | 3375.2 | 3461.1 | 3558.3 | 3646.6 |
| 7.5° | 2801.8 | 2796.9 | 2835.0 | 2890.0 | *2943.5* | 2970.2 | 3089.3 | 3229.4 | 3372.8 | 3529.9 | 3665.2 |
| 10° | 2554.7 | 2553.1 | 2589.5 | 2643.8 | *2722.4* | 2752.4 | 2906.2 | 3090.9 | 3291.8 | 3508.1 | 3696.8 |
| 12.5° | 2416.2 | 2421.9 | 2438.9 | 2484.2 | *2557.1* | 2587.1 | 2758.0 | 2975.1 | 3223.8 | 3500.8 | 3743.0 |
| 15° | 2450.2 | 2459.1 | 2430.0 | 2428.4 | *2480.2* | 2503.7 | 2664.1 | 2892.5 | 3175.2 | 3512.9 | 3810.2 |
| 17.5° | 2595.2 | 2596.8 | 2519.9 | 2471.3 | *2502.9* | 2515.0 | 2634.9 | 2845.5 | 3146.8 | 3540.5 | 3894.4 |
| 20° | 2799.3 | 2795.3 | 2659.2 | 2578.2 | *2595.2* | 2598.5 | 2676.2 | 2846.3 | 3144.4 | 3588.3 | 4003.8 |
| 22.5° | 3069.9 | 3039.9 | 2856.8 | 2746.7 | *2742.6* | 2737.8 | 2782.3 | 2906.2 | 3180.0 | 3666.0 | 4134.2 |
| 25° | 3423.0 | 3394.7 | 3142.8 | 2992.1 | *2959.7* | 2947.6 | 2954.0 | 3034.2 | 3250.5 | 3749.4 | 4280.0 |
| 27.5° | 3815.9 | 3766.5 | 3523.5 | 3310.4 | *3243.2* | 3226.2 | 3187.3 | 3214.9 | 3327.4 | 3829.6 | 4453.3 |
| 30° | 4144.7 | 4118.0 | 3905.8 | 3653.1 | *3573.7* | 3549.4 | 3447.3 | 3417.4 | 3438.4 | 3939.0 | 4672.0 |
| 32.5° | 4328.6 | 4310.8 | 4182.0 | 3977.9 | *3904.2* | 3870.1 | 3726.0 | 3666.0 | 3616.6 | 4111.5 | 4968.5 |
| 35° | 4551.3 | 4540.0 | 4462.2 | 4314.0 | *4204.7* | 4169.0 | 4057.2 | 3994.9 | 3867.7 | 4348.8 | 5351.6 |
| 37.5° | 4834.8 | 4822.7 | 4824.3 | 4704.4 | *4574.0* | 4540.8 | 4467.1 | 4401.5 | 4193.3 | 4660.7 | 5767.9 |
| 40° | 5155.6 | 5132.1 | 5123.2 | 5117.5 | *5034.9* | 5016.3 | 4977.4 | 4888.3 | 4601.6 | 5033.3 | 6178.6 |
| 42.5° | 5638.3 | 5554.9 | 5376.7 | 5444.0 | *5525.8* | 5516.0 | 5547.6 | 5419.7 | 5055.2 | 5473.9 | 6579.6 |
| 45° | 6104.1 | 5967.2 | 5659.4 | 5674.0 | *5853.0* | 5907.3 | 6143.8 | 6053.1 | 5546.8 | 5956.7 | 6994.3 |
| 47.5° | 6316.3 | 6212.6 | 5951.0 | 5951.8 | *6129.2* | 6241.8 | 6760.2 | 6695.4 | 6063.6 | 6505.0 | 7500.5 |
| 50° | 6553.6 | 6450.0 | 6215.1 | 6303.4 | *6458.1* | 6577.9 | 7355.5 | 7322.3 | 6555.3 | 7105.2 | 8107.2 |
| 52.5° | 6812.8 | 6637.1 | 6488.0 | 6646.0 | *6863.1* | 7002.4 | 7951.7 | 7861.0 | 7006.4 | 7709.5 | 8804.6 |
| 55° | 6816.1 | 6768.3 | 6881.7 | 6997.5 | *7322.3* | 7493.2 | 8576.2 | 8336.4 | 7374.2 | 8303.2 | 9372.4 |
| 57.5° | 7204.1 | 7126.3 | 7366.9 | 7420.3 | *7844.8* | 8037.5 | 9197.5 | 8750.3 | 7748.4 | 8758.4 | 9678.6 |
| 60° | 7717.6 | 7651.2 | 7848.0 | 7988.9 | *8491.1* | 8748.7 | 9860.8 | 9175.6 | 8042.4 | 9101.9 | 9664.0 |
| 62.5° | 8604.5 | 8529.2 | 8526.8 | 8724.4 | *9400.8* | 9700.5 | 10605.2 | 9592.7 | 8159.0 | 9169.9 | 9251.7 |
| 65° | 9903.0 | 9783.1 | 9557.1 | 9651.0 | *10657.1* | 10955.9 | 11437.1 | 9894.9 | 8005.1 | 8805.4 | 8189.8 |
| 67.5° | 11166.5 | 11162.5 | 10884.7 | 11077.4 | *12315.9* | 12555.7 | 12384.8 | 9924.8 | 7524.8 | 7536.2 | 6305.8 |
| 70° | 12426.1 | 12442.3 | 12395.3 | 13066.0 | *14557.2* | 14806.6 | 13394.0 | 9522.3 | 6445.1 | 5442.3 | 3777.8 |
| 72.5° | 13424.0 | 13419.9 | 13656.5 | 15385.8 | *17465.8* | 17410.0 | 14244.5 | 8302.4 | 4627.5 | 2937.8 | 1805.5 |
| 75° | *12777.6* | *12636.7* | *13341.4* | *16534.4* | *19161.2* | *18888.2* | *13521.2* | *5791.4* | *2401.6* | *1337.3* | *972.0* |
| 77.5° | 8334.0 | 8467.6 | 9502.0 | 13658.9 | *16760.3* | 16428.2 | 9920.0 | 2702.1 | 1131.6 | 877.2 | 704.7 |
| 80° | 3018.0 | 3159.0 | 4449.3 | 7737.0 | *11547.2* | 11493.0 | 4885.1 | 1110.5 | 765.4 | 662.6 | 513.5 |
| 82.5° | 1038.4 | 1090.2 | 1755.3 | 3436.0 | *6519.6* | 6762.6 | 1837.9 | 631.0 | 556.5 | 469.8 | 351.5 |
| 85° | 407.4 | 466.6 | 802.7 | 1653.2 | *3288.6* | 3312.9 | 744.4 | 377.5 | 387.2 | 307.8 | 192.8 |
| 87.5° | 154.7 | 187.9 | 383.9 | 767.9 | *1501.7* | 1379.4 | 266.5 | 179.8 | 220.3 | 183.1 | 91.5 |
| 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: P318630
CATALOG NUMBER: GAN-SA6A-727-U-T4FT

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3665.2 | 3665.2 | 3665.2 | 3665.2 | 3665.2 | 3665.2 | 3665.2 | 3665.2 | 3665.2 | 3665.2 | 3665.2 |
| 2.5° | 3670.9 | 3687.9 | 3723.5 | 3747.8 | 3773.7 | 3781.0 | 3784.3 | 3790.8 | 3797.2 | 3794.8 | 3795.6 |
| 5° | 3693.6 | 3726.8 | 3784.3 | 3808.6 | 3819.9 | 3807.0 | 3781.8 | 3761.6 | 3747.0 | 3738.9 | 3736.5 |
| 7.5° | 3730.8 | 3777.8 | 3839.4 | 3835.3 | 3809.4 | 3751.9 | 3687.1 | 3638.5 | 3598.0 | 3583.4 | 3575.3 |
| 10° | 3780.2 | 3835.3 | 3878.2 | 3832.1 | 3756.7 | 3657.1 | 3559.9 | 3484.6 | 3423.8 | 3400.3 | 3396.3 |
| 12.5° | 3843.4 | 3899.3 | 3907.4 | 3809.4 | 3684.6 | 3548.6 | 3416.5 | 3316.9 | 3226.2 | 3197.0 | 3190.6 |
| 15° | 3925.2 | 3977.9 | 3927.6 | 3769.7 | 3595.6 | 3412.5 | 3241.6 | 3106.3 | 3010.7 | 2975.1 | 2962.1 |
| 17.5° | 4011.1 | 4061.3 | 3931.7 | 3704.1 | 3478.9 | 3251.3 | 3036.7 | 2898.1 | 2788.8 | 2747.5 | 2742.6 |
| 20° | 4113.9 | 4136.6 | 3914.7 | 3610.1 | 3318.5 | 3042.3 | 2816.3 | 2685.9 | 2627.6 | 2598.5 | 2595.2 |
| 22.5° | 4241.1 | 4216.8 | 3875.8 | 3483.0 | 3115.2 | 2800.9 | 2617.1 | 2556.3 | 2541.8 | 2535.3 | 2537.7 |
| 25° | 4375.6 | 4301.1 | 3818.3 | 3316.9 | 2858.5 | 2559.6 | 2471.3 | 2488.3 | 2507.7 | 2505.3 | 2505.3 |
| 27.5° | 4523.8 | 4386.9 | 3730.0 | 3096.6 | 2574.2 | 2361.9 | 2372.5 | 2434.8 | 2464.0 | 2463.2 | 2462.4 |
| 30° | 4714.1 | 4484.1 | 3617.4 | 2831.7 | 2308.5 | 2222.6 | 2286.6 | 2362.7 | 2402.4 | 2400.8 | 2401.6 |
| 32.5° | 4948.2 | 4591.0 | 3464.3 | 2536.1 | 2116.5 | 2119.7 | 2193.5 | 2268.8 | 2315.0 | 2310.9 | 2311.7 |
| 35° | 5222.0 | 4710.9 | 3257.0 | 2244.5 | 1989.3 | 2037.9 | 2096.3 | 2148.9 | 2192.6 | 2187.0 | 2181.3 |
| 37.5° | 5520.1 | 4828.4 | 2981.6 | 1983.7 | 1885.7 | 1961.8 | 2010.4 | 2019.3 | 2039.6 | 2025.0 | 2014.4 |
| 40° | 5803.6 | 4918.3 | 2626.8 | 1769.8 | 1781.2 | 1897.0 | 1928.6 | 1892.9 | 1856.5 | 1851.6 | 1837.1 |
| 42.5° | 6050.6 | 4948.2 | 2268.0 | 1598.9 | 1671.0 | 1829.0 | 1848.4 | 1773.9 | 1708.3 | 1677.5 | 1664.5 |
| 45° | 6311.5 | 4958.8 | 1933.4 | 1455.6 | 1564.9 | 1768.2 | 1789.3 | 1689.6 | 1597.3 | 1530.9 | 1509.0 |
| 47.5° | 6652.5 | 5034.9 | 1673.4 | 1349.4 | 1483.9 | 1727.7 | 1757.7 | 1622.4 | 1502.5 | 1407.8 | 1387.5 |
| 50° | 7098.8 | 5185.6 | 1462.0 | 1268.4 | 1431.3 | 1701.0 | 1735.0 | 1556.8 | 1424.8 | 1310.6 | 1290.3 |
| 52.5° | 7594.5 | 5324.1 | 1291.1 | 1202.8 | 1380.2 | 1654.0 | 1705.8 | 1509.8 | 1351.9 | 1220.7 | 1198.8 |
| 55° | 7941.2 | 5218.0 | 1153.4 | 1134.8 | 1313.8 | 1586.8 | 1665.3 | 1470.1 | 1247.4 | 1133.2 | 1113.7 |
| 57.5° | 8007.6 | 4855.1 | 1048.9 | 1064.3 | 1233.6 | 1502.5 | 1603.0 | 1381.8 | 1190.7 | 1095.1 | 1074.9 |
| 60° | 7826.1 | 4349.7 | 971.2 | 999.5 | 1147.8 | 1396.4 | 1486.3 | 1319.5 | 1136.4 | 1054.6 | 1037.6 |
| 62.5° | 7370.1 | 3832.1 | 913.7 | 941.2 | 1067.6 | 1288.7 | 1413.4 | 1253.9 | 1081.3 | 1008.4 | 991.4 |
| 65° | 6449.1 | 3217.3 | 858.6 | 889.4 | 993.0 | 1195.5 | 1347.8 | 1193.1 | 1027.1 | 971.2 | 955.0 |
| 67.5° | 4868.0 | 2409.7 | 806.8 | 834.3 | 926.6 | 1114.5 | 1276.5 | 1133.2 | 974.4 | 938.8 | 919.3 |
| 70° | 2866.6 | 1509.0 | 747.6 | 776.8 | 857.0 | 1030.3 | 1200.4 | 1067.6 | 908.8 | 892.6 | 867.5 |
| 72.5° | 1334.1 | 908.0 | 680.4 | 708.7 | 769.5 | 917.7 | 1102.4 | 981.7 | 831.1 | 795.4 | 761.4 |
| 75° | *796.2* | *664.2* | *601.0* | *626.1* | *669.1* | *797.8* | *979.3* | *894.2* | *757.3* | *710.4* | *674.7* |
| 77.5° | 595.3 | 507.9 | 513.5 | 540.3 | 575.1 | 698.2 | 867.5 | 825.4 | 700.6 | 664.2 | 639.9 |
| 80° | 428.5 | 385.6 | 418.8 | 447.9 | 484.4 | 635.0 | 831.1 | 763.0 | 633.4 | 584.8 | 562.1 |
| 82.5° | 285.9 | 277.0 | 315.1 | 345.1 | 380.7 | 555.7 | 780.8 | 668.2 | 541.1 | 479.5 | 429.3 |
| 85° | 157.9 | 166.9 | 212.2 | 225.2 | 256.0 | 391.2 | 639.9 | 537.0 | 407.4 | 328.0 | 313.5 |
| 87.5° | 65.6 | 76.9 | 114.2 | 110.2 | 136.1 | 233.3 | 421.2 | 324.0 | 259.2 | 193.6 | 150.7 |
| 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)