

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: P300997

Luminaire Tested: **GAA-AF-07-LED-U-SL4-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-07-LED-U-SL4-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25403.6 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 226
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

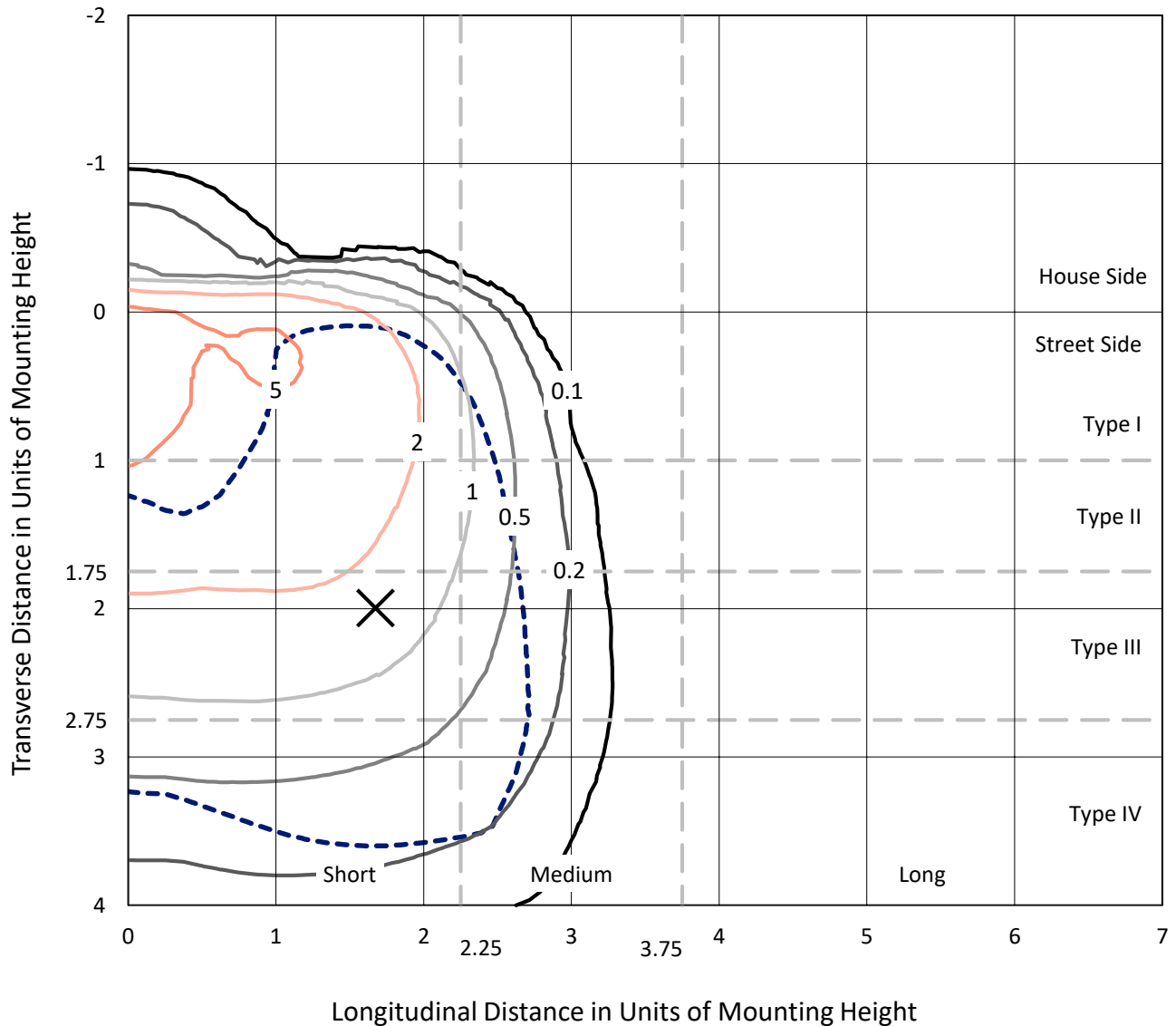


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Iso-Footcandle Lines of Horizontal Illumination

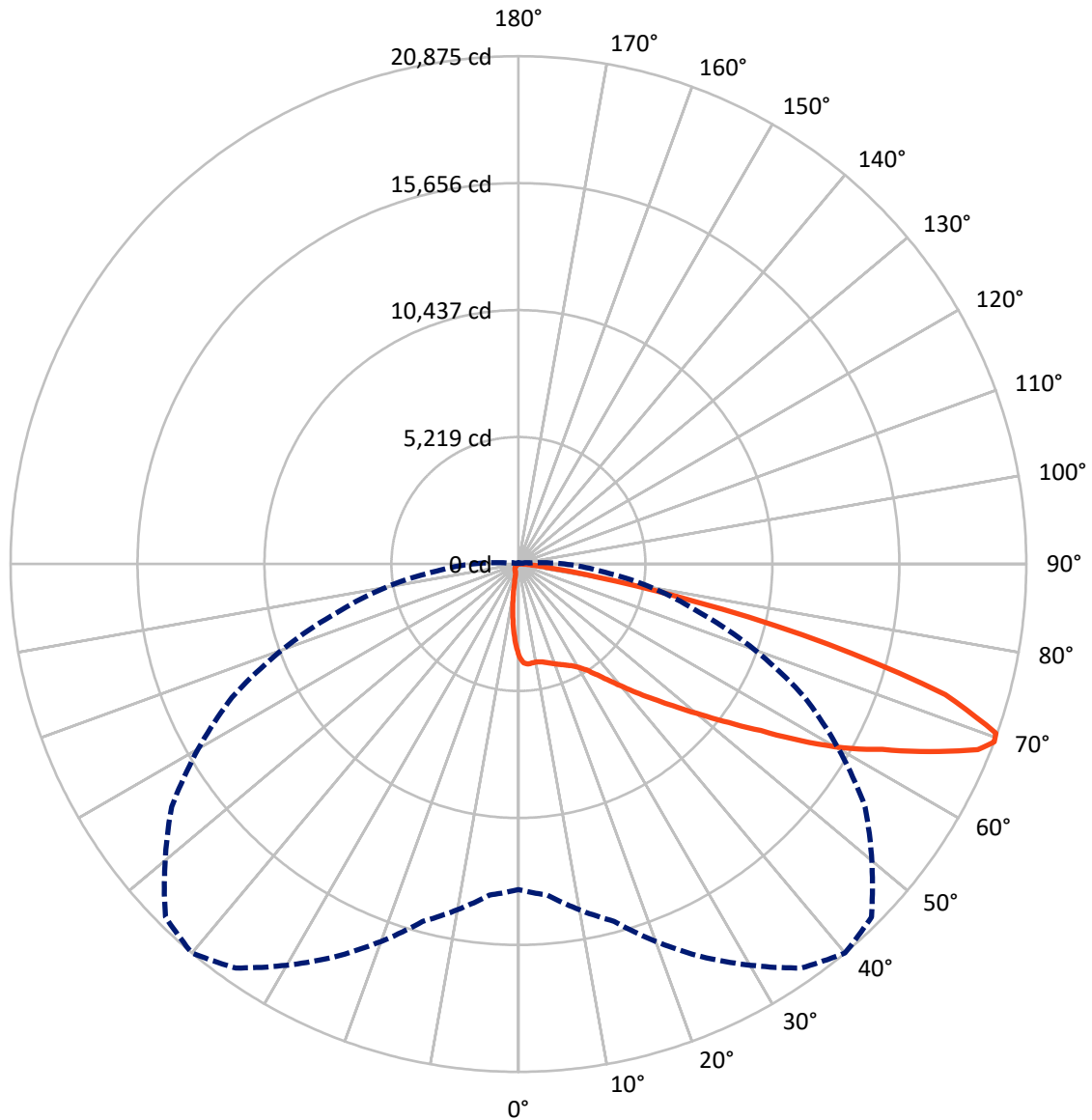
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1486.3 | 0.0 | 1486.3 |
| | % Fixture | 5.9 | 0.0 | 5.9 |
| Street Side | Lumens | 23917.4 | 0.0 | 23917.4 |
| | % Fixture | 94.1 | 0.0 | 94.1 |
| Total | Lumens | 25403.6 | 0.0 | 25403.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 307.7 | 1.2 |
| 10°-20° | 756.8 | 3.0 |
| 20°-30° | 1274.7 | 5.0 |
| 30°-40° | 2086.7 | 8.2 |
| 40°-50° | 3613.0 | 14.2 |
| 50°-60° | 5690.9 | 22.4 |
| 60°-70° | 7432.0 | 29.3 |
| 70°-80° | 3827.8 | 15.1 |
| 80°-90° | 414.1 | 1.6 |
| 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° | 25403.6 | 100.0 |
| 0°-180° | 25403.6 | 100.0 |

Coefficient of Utilization



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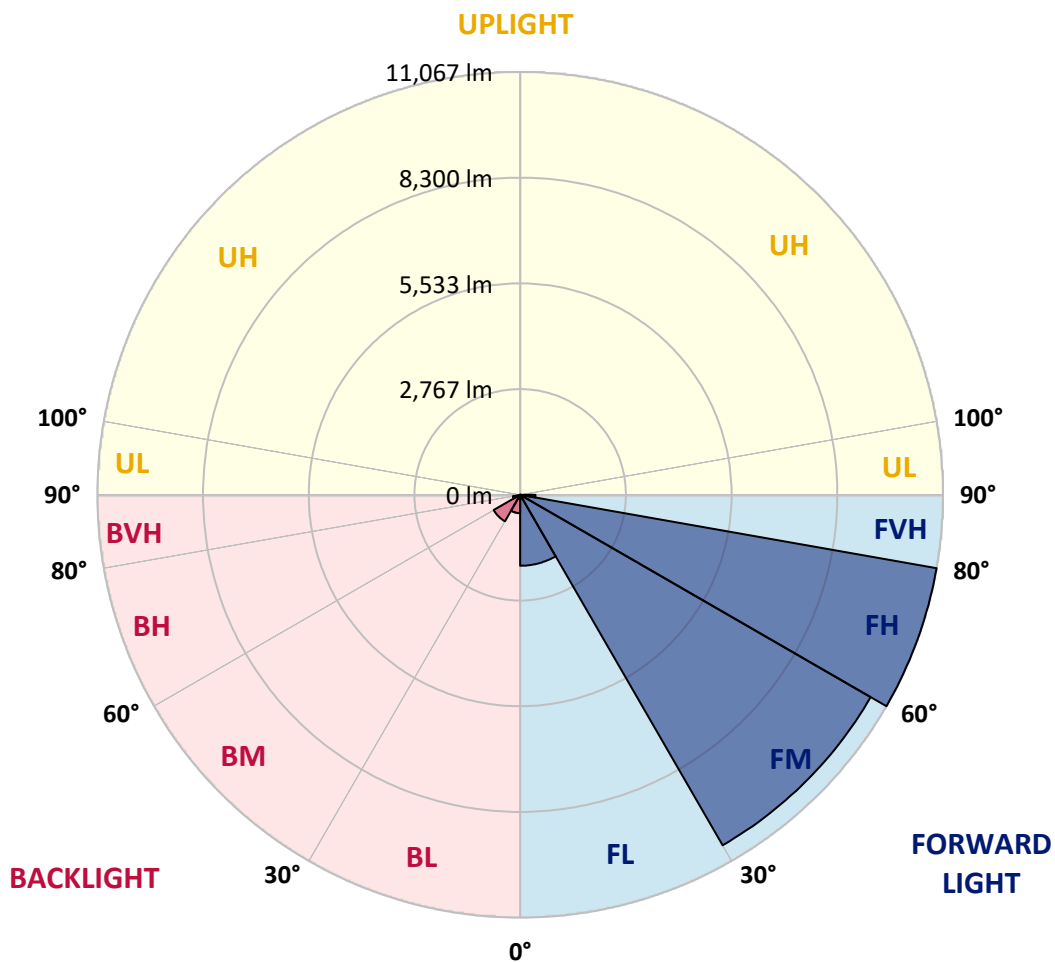
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1857.7 | 7.3 | | | |
| FM (30°-60°) | 10591.7 | 41.7 | | | |
| FH (60°-80°) | 11066.9 | 43.6 | | | G4/12000 |
| FVH (80°-90°) | 401.1 | 1.6 | | | G3/500 |
| BL (0°-30°) | 481.4 | 1.9 | B1/500 | | |
| BM (30°-60°) | 798.8 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 193.0 | 0.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 13.0 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3795.4 | 3795.4 | 3795.4 | 3795.4 | 3795.4 | 3795.4 | 3795.4 | 3795.4 | 3795.4 | 3795.4 | 3795.4 |
| 2.5° | 4167.4 | 4144.7 | 4131.1 | 4113.0 | 4090.3 | 4070.6 | 4063.1 | 4007.1 | 3954.2 | 3881.6 | 3798.5 |
| 5° | 4244.5 | 4237.0 | 4212.8 | 4188.6 | 4161.4 | 4131.1 | 4114.5 | 4048.0 | 3972.4 | 3866.5 | 3721.3 |
| 7.5° | 4252.1 | 4243.0 | 4212.8 | 4179.5 | 4141.7 | 4105.4 | 4076.7 | 4010.2 | 3940.6 | 3833.2 | 3656.3 |
| 10° | 4240.0 | 4229.4 | 4206.7 | 4170.4 | 4123.6 | 4088.8 | 4060.1 | 3996.5 | 3937.6 | 3840.8 | 3644.2 |
| 12.5° | 4226.4 | 4215.8 | 4205.2 | 4187.1 | 4146.2 | 4122.1 | 4097.9 | 4037.4 | 3984.4 | 3902.8 | 3688.1 |
| 15° | 4240.0 | 4233.9 | 4246.0 | 4238.5 | 4215.8 | 4194.6 | 4170.4 | 4116.0 | 4067.6 | 3999.6 | 3768.2 |
| 17.5° | 4297.5 | 4297.5 | 4335.3 | 4339.8 | 4318.6 | 4288.4 | 4253.6 | 4199.2 | 4158.3 | 4100.9 | 3863.5 |
| 20° | 4432.0 | 4427.5 | 4475.9 | 4485.0 | 4433.5 | 4386.7 | 4335.3 | 4268.7 | 4237.0 | 4200.7 | 3957.2 |
| 22.5° | 4663.4 | 4642.2 | 4671.0 | 4661.9 | 4560.6 | 4488.0 | 4424.5 | 4342.8 | 4326.2 | 4309.6 | 4061.6 |
| 25° | 4964.3 | 4952.2 | 4971.9 | 4882.7 | 4704.2 | 4605.9 | 4530.3 | 4438.1 | 4438.1 | 4454.7 | 4179.5 |
| 27.5° | 5401.3 | 5355.9 | 5289.4 | 5132.2 | 4864.5 | 4739.0 | 4657.3 | 4559.1 | 4584.8 | 4646.8 | 4335.3 |
| 30° | 5848.9 | 5799.0 | 5646.3 | 5404.3 | 5059.6 | 4928.0 | 4832.8 | 4729.9 | 4790.4 | 4903.8 | 4543.9 |
| 32.5° | 6290.4 | 6234.5 | 6018.3 | 5712.8 | 5339.3 | 5207.8 | 5115.5 | 5002.1 | 5103.4 | 5293.9 | 4849.4 |
| 35° | 6718.4 | 6668.5 | 6419.0 | 6059.1 | 5711.3 | 5602.4 | 5517.7 | 5419.5 | 5549.5 | 5815.6 | 5280.3 |
| 37.5° | 7199.2 | 7144.8 | 6840.9 | 6450.7 | 6163.4 | 6084.8 | 6022.8 | 5924.5 | 6151.3 | 6541.5 | 5880.7 |
| 40° | 7790.5 | 7698.2 | 7288.4 | 6899.8 | 6686.6 | 6648.8 | 6606.5 | 6592.9 | 6945.2 | 7485.0 | 6680.6 |
| 42.5° | 8467.9 | 8316.7 | 7757.2 | 7373.1 | 7261.2 | 7288.4 | 7277.9 | 7338.3 | 7938.7 | 8658.4 | 7654.4 |
| 45° | 9145.3 | 8950.3 | 8278.9 | 7878.2 | 7893.3 | 7988.6 | 8047.5 | 8289.5 | 9183.1 | 10004.2 | 8702.3 |
| 47.5° | 9719.9 | 9527.9 | 8779.4 | 8424.0 | 8605.5 | 8793.0 | 8953.3 | 9411.5 | 10462.4 | 11328.8 | 9517.3 |
| 50° | 10211.4 | 10029.9 | 9310.2 | 9024.4 | 9432.6 | 9735.1 | 9995.1 | 10674.1 | 11838.4 | 12337.4 | 10088.9 |
| 52.5° | 10613.6 | 10492.6 | 9860.6 | 9712.4 | 10377.7 | 10820.8 | 11201.8 | 12015.3 | 13057.2 | 13157.0 | 10533.5 |
| 55° | 11005.2 | 10919.1 | 10451.8 | 10530.4 | 11487.6 | 12090.9 | 12573.3 | 13438.3 | 14106.6 | 13840.5 | 10959.9 |
| 57.5° | 11455.9 | 11377.2 | 11126.2 | 11567.8 | 12946.8 | 13705.9 | 14232.1 | 14699.4 | 15030.5 | 14539.1 | 11362.1 |
| 60° | 11915.5 | 11870.2 | 11876.2 | 12720.0 | 14622.2 | 15351.1 | 15641.4 | 15762.4 | 15937.8 | 15196.9 | 11384.8 |
| 62.5° | 12354.1 | 12440.2 | 12733.6 | 14002.3 | 16226.6 | 16786.1 | 16932.8 | 17052.2 | 16846.6 | 15301.2 | 10518.3 |
| 65° | 13096.5 | 13237.1 | 13937.3 | 15718.5 | 17991.3 | 18590.1 | 18741.3 | 18331.5 | 16990.2 | 13952.4 | 8555.6 |
| 67.5° | 13459.4 | 13716.5 | 14965.5 | 17318.4 | 19703.0 | 20368.3 | 20312.4 | 18414.7 | 15246.8 | 10639.3 | 5490.5 |
| 69° | 13383.8 | 13657.5 | 15202.9 | 17808.3 | 20271.5 | 20874.9 | 20519.5 | 17397.0 | 12989.2 | 7707.3 | 3370.5 |
| 70° | 13084.4 | 13361.1 | 15080.4 | 17790.1 | 20344.1 | 20822.0 | 20135.5 | 16140.4 | 10982.6 | 5635.7 | 2107.9 |
| 72.5° | 10926.6 | 11165.5 | 13388.4 | 16079.9 | 18741.3 | 18352.7 | 16845.1 | 11182.2 | 5351.4 | 1534.8 | 474.8 |
| 75° | 6725.9 | 6859.0 | 9606.5 | 12113.6 | 14155.0 | 13157.0 | 11223.0 | 5563.1 | 1595.3 | 434.0 | 263.1 |
| 77.5° | 3553.5 | 3614.0 | 5259.2 | 7140.3 | 8972.9 | 7424.5 | 5752.1 | 2169.9 | 734.9 | 272.2 | 190.5 |
| 80° | 2100.3 | 2145.7 | 2832.2 | 3264.7 | 3883.1 | 3243.5 | 2299.9 | 1332.2 | 526.2 | 170.9 | 169.4 |
| 82.5° | 1202.1 | 1230.9 | 2053.5 | 1814.5 | 1530.3 | 1306.5 | 1144.7 | 1262.6 | 316.0 | 114.9 | 175.4 |
| 85° | 441.5 | 447.6 | 1155.3 | 1380.6 | 910.3 | 541.3 | 568.6 | 1046.4 | 84.7 | 72.6 | 137.6 |
| 87.5° | 205.6 | 201.1 | 594.3 | 845.3 | 532.3 | 343.3 | 443.1 | 229.8 | 33.3 | 46.9 | 37.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GAA-AF-07-LED-U-SL4-7030-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3795.4 | 3795.4 | 3795.4 | 3795.4 | 3795.4 | 3795.4 | 3795.4 | 3795.4 | 3795.4 | 3795.4 | 3795.4 |
| 2.5° | 3750.1 | 3694.1 | 3592.8 | 3488.5 | 3382.6 | 3301.0 | 3220.8 | 3157.3 | 3136.1 | 3096.8 | 3099.9 |
| 5° | 3635.1 | 3532.3 | 3320.6 | 3105.9 | 2882.1 | 2697.6 | 2523.7 | 2383.1 | 2315.1 | 2245.5 | 2245.5 |
| 7.5° | 3535.3 | 3385.6 | 3054.5 | 2705.2 | 2343.8 | 2039.9 | 1766.2 | 1560.5 | 1447.1 | 1356.4 | 1354.9 |
| 10° | 3497.5 | 3294.9 | 2832.2 | 2331.7 | 1828.2 | 1413.8 | 1088.7 | 880.1 | 772.7 | 703.1 | 700.1 |
| 12.5° | 3514.2 | 3263.2 | 2661.3 | 1986.9 | 1354.9 | 908.8 | 630.6 | 496.0 | 450.6 | 429.4 | 429.4 |
| 15° | 3562.6 | 3254.1 | 2490.5 | 1649.7 | 957.2 | 568.6 | 418.9 | 382.6 | 379.5 | 379.5 | 379.5 |
| 17.5° | 3621.5 | 3257.1 | 2315.1 | 1321.6 | 651.7 | 406.8 | 361.4 | 356.9 | 359.9 | 359.9 | 359.9 |
| 20° | 3682.0 | 3258.6 | 2126.0 | 1017.7 | 459.7 | 353.8 | 340.2 | 338.7 | 341.7 | 341.7 | 343.3 |
| 22.5° | 3756.1 | 3266.2 | 1937.0 | 760.6 | 379.5 | 334.2 | 323.6 | 323.6 | 325.1 | 325.1 | 323.6 |
| 25° | 3840.8 | 3281.3 | 1740.5 | 564.0 | 346.3 | 320.6 | 311.5 | 310.0 | 311.5 | 310.0 | 308.5 |
| 27.5° | 3946.6 | 3302.5 | 1521.2 | 441.5 | 331.2 | 307.0 | 299.4 | 299.4 | 297.9 | 296.4 | 294.9 |
| 30° | 4079.7 | 3326.7 | 1274.7 | 375.0 | 316.0 | 294.9 | 287.3 | 285.8 | 284.3 | 281.3 | 281.3 |
| 32.5° | 4282.3 | 3379.6 | 1031.3 | 340.2 | 299.4 | 278.2 | 272.2 | 272.2 | 269.2 | 266.1 | 264.6 |
| 35° | 4593.8 | 3483.9 | 813.5 | 319.1 | 281.3 | 260.1 | 252.5 | 252.5 | 249.5 | 248.0 | 246.5 |
| 37.5° | 5024.8 | 3642.7 | 632.1 | 299.4 | 263.1 | 240.4 | 232.9 | 231.4 | 228.3 | 225.3 | 223.8 |
| 40° | 5597.9 | 3839.3 | 497.5 | 281.3 | 245.0 | 220.8 | 214.7 | 211.7 | 205.6 | 201.1 | 201.1 |
| 42.5° | 6317.7 | 4063.1 | 403.7 | 261.6 | 223.8 | 202.6 | 198.1 | 193.6 | 183.0 | 178.4 | 176.9 |
| 45° | 7070.7 | 4264.2 | 341.7 | 238.9 | 202.6 | 184.5 | 181.5 | 173.9 | 160.3 | 155.7 | 155.7 |
| 47.5° | 7613.5 | 4311.1 | 300.9 | 217.7 | 183.0 | 164.8 | 163.3 | 149.7 | 137.6 | 134.6 | 133.1 |
| 50° | 7952.3 | 4218.8 | 267.6 | 196.6 | 164.8 | 146.7 | 142.1 | 125.5 | 117.9 | 114.9 | 113.4 |
| 52.5° | 8180.6 | 4054.0 | 240.4 | 178.4 | 148.2 | 130.0 | 119.5 | 107.4 | 101.3 | 98.3 | 98.3 |
| 55° | 8363.6 | 3821.1 | 213.2 | 161.8 | 134.6 | 116.4 | 101.3 | 92.2 | 86.2 | 83.2 | 83.2 |
| 57.5° | 8415.0 | 3505.1 | 186.0 | 148.2 | 121.0 | 102.8 | 86.2 | 80.1 | 72.6 | 71.1 | 71.1 |
| 60° | 8041.5 | 2935.0 | 164.8 | 131.6 | 108.9 | 89.2 | 75.6 | 68.0 | 60.5 | 59.0 | 57.5 |
| 62.5° | 7057.1 | 2271.2 | 145.2 | 116.4 | 95.3 | 77.1 | 65.0 | 55.9 | 49.9 | 49.9 | 49.9 |
| 65° | 5383.2 | 1522.7 | 127.0 | 101.3 | 83.2 | 65.0 | 55.9 | 45.4 | 42.3 | 42.3 | 43.9 |
| 67.5° | 3222.3 | 828.6 | 108.9 | 86.2 | 71.1 | 54.4 | 46.9 | 39.3 | 37.8 | 39.3 | 39.3 |
| 69° | 1888.6 | 486.9 | 98.3 | 77.1 | 62.0 | 48.4 | 40.8 | 34.8 | 37.8 | 39.3 | 39.3 |
| 70° | 1165.8 | 328.1 | 90.7 | 69.6 | 55.9 | 43.9 | 37.8 | 33.3 | 36.3 | 37.8 | 37.8 |
| 72.5° | 325.1 | 169.4 | 72.6 | 54.4 | 45.4 | 36.3 | 30.2 | 30.2 | 34.8 | 36.3 | 36.3 |
| 75° | 211.7 | 125.5 | 55.9 | 40.8 | 34.8 | 28.7 | 25.7 | 28.7 | 33.3 | 34.8 | 34.8 |
| 77.5° | 175.4 | 102.8 | 45.4 | 33.3 | 28.7 | 27.2 | 24.2 | 25.7 | 30.2 | 31.8 | 31.8 |
| 80° | 160.3 | 72.6 | 36.3 | 30.2 | 25.7 | 24.2 | 22.7 | 21.2 | 27.2 | 28.7 | 28.7 |
| 82.5° | 152.7 | 57.5 | 31.8 | 27.2 | 24.2 | 21.2 | 19.7 | 21.2 | 24.2 | 25.7 | 27.2 |
| 85° | 95.3 | 37.8 | 28.7 | 25.7 | 21.2 | 19.7 | 19.7 | 19.7 | 22.7 | 24.2 | 24.2 |
| 87.5° | 34.8 | 30.2 | 25.7 | 21.2 | 18.1 | 18.1 | 18.1 | 18.1 | 19.7 | 22.7 | 22.7 |
| 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)