

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: P299016

Luminaire Tested: **GAA-AF-07-LED-U-T2-7060-600**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P299016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
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-T2-7060-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 27124.6 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - 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

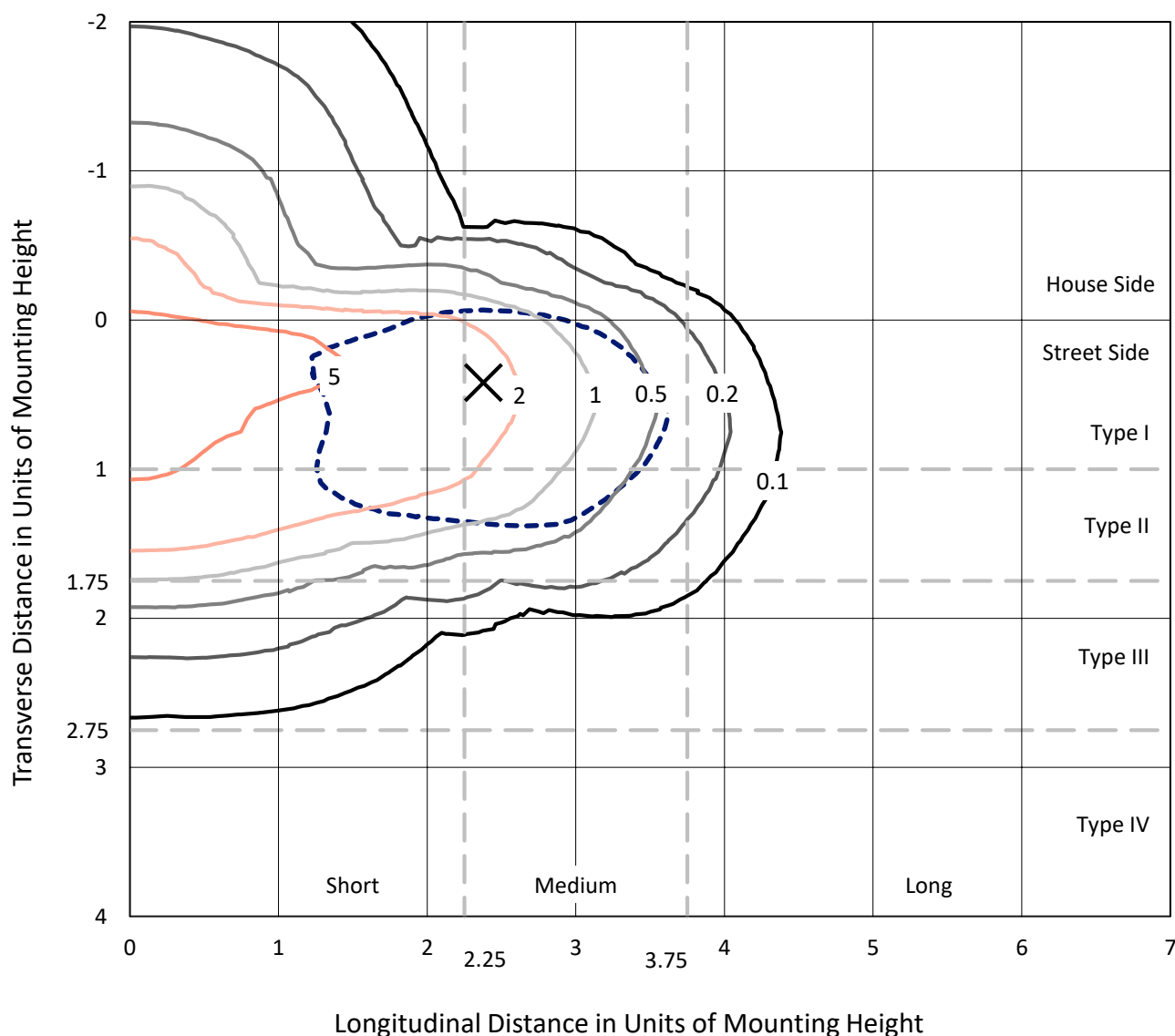


REPORT NUMBER: P299016

CATALOG NUMBER: GAA-AF-07-LED-U-T2-7060-600

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

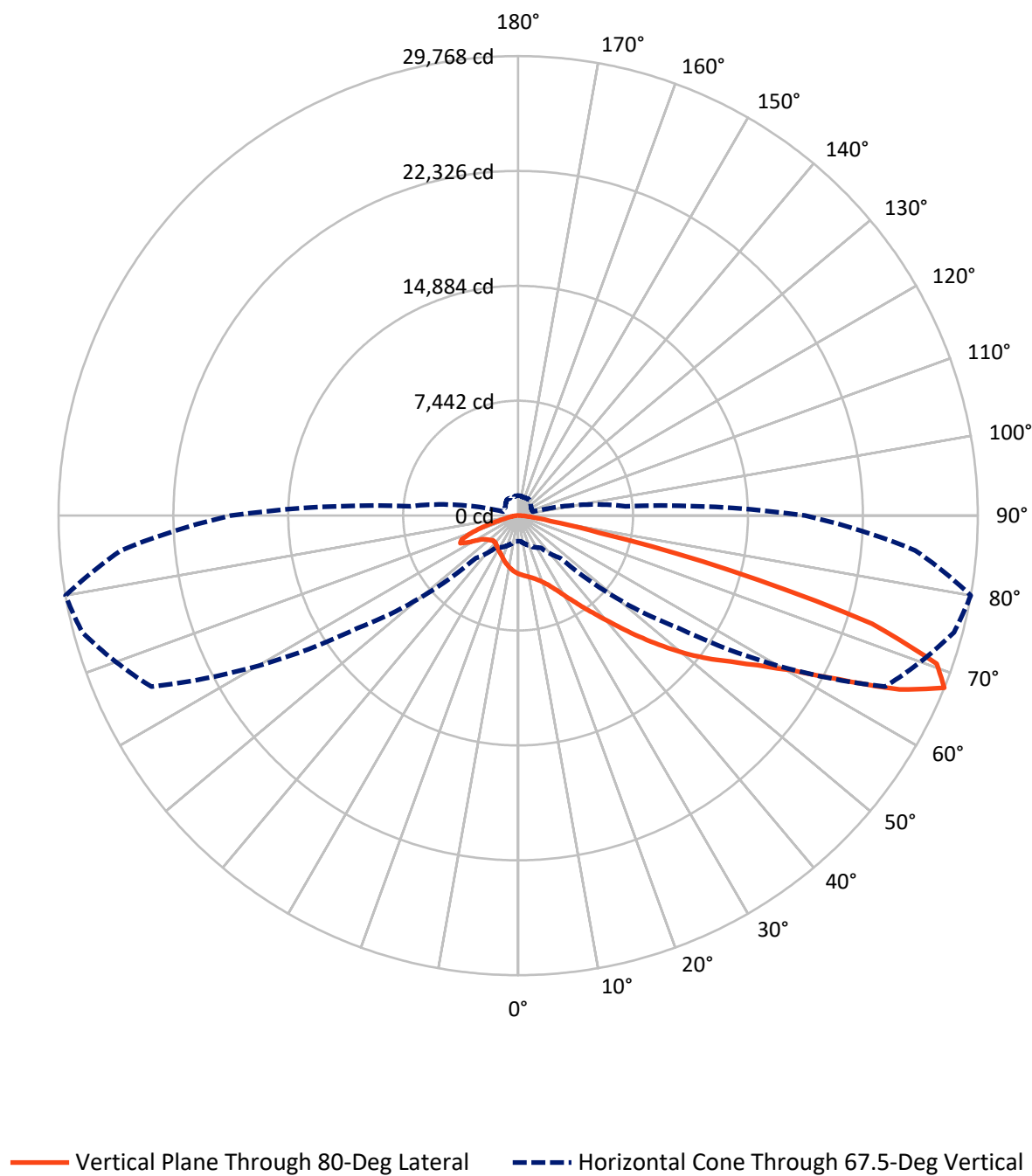


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P299016

CATALOG NUMBER: GAA-AF-07-LED-U-T2-7060-600

## Luminous Intensity Polar Plot



REPORT NUMBER: P299016

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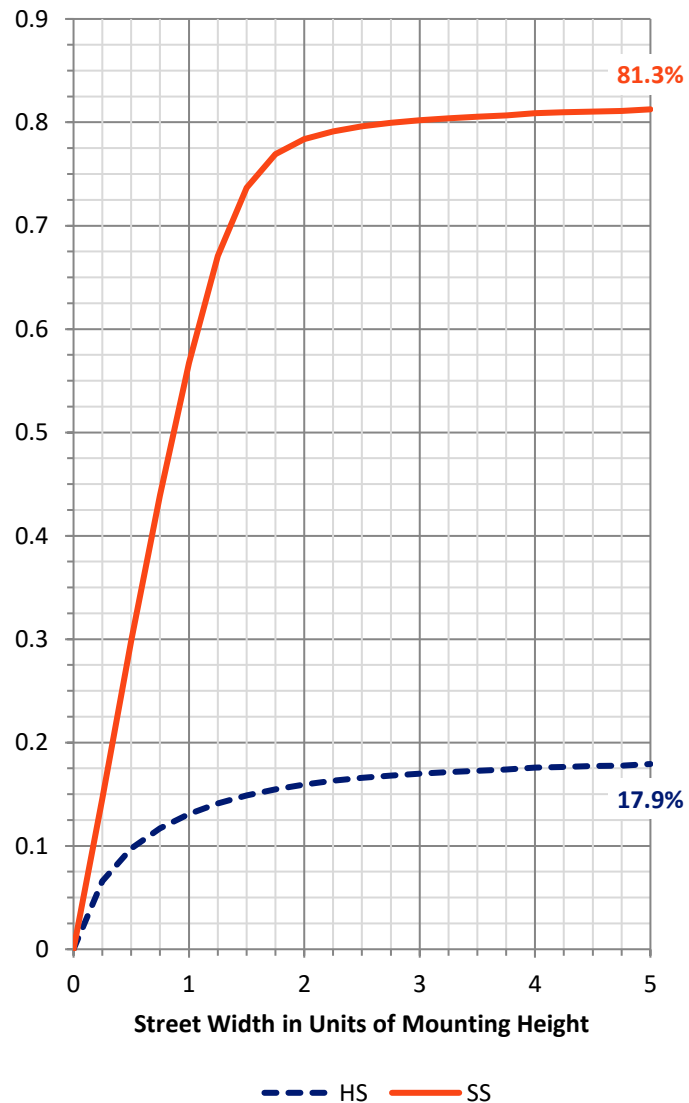
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4995.3   | 0.0    | 4995.3  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 22129.2  | 0.0    | 22129.2 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 27124.6  | 0.0    | 27124.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 347.6   | 1.3       |
| 10°-20°   | 1001.4  | 3.7       |
| 20°-30°   | 1657.5  | 6.1       |
| 30°-40°   | 2711.3  | 10.0      |
| 40°-50°   | 4377.6  | 16.1      |
| 50°-60°   | 6320.0  | 23.3      |
| 60°-70°   | 6974.5  | 25.7      |
| 70°-80°   | 3214.8  | 11.9      |
| 80°-90°   | 520.0   | 1.9       |
| 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°    | 27124.6 | 100.0     |
| 0°-180°   | 27124.6 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P299016

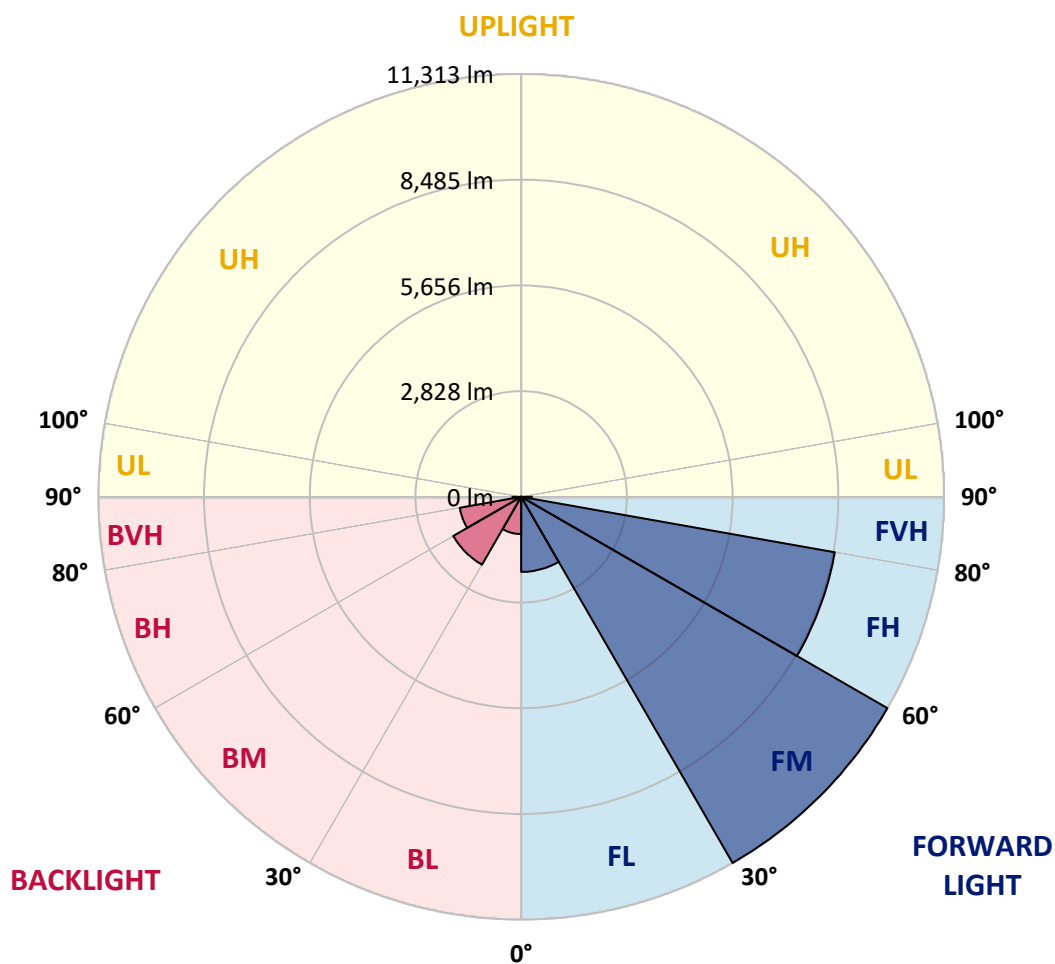
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2009.9  | 7.4       |                         |      |          |
| FM   | (30°-60°)   | 11313.0 | 41.7      |                         |      |          |
| FH   | (60°-80°)   | 8520.5  | 31.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 285.9   | 1.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 996.6   | 3.7       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 2095.9  | 7.7       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1668.7  | 6.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 234.1   | 0.9       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Medium





REPORT NUMBER: P299016

CATALOG NUMBER: GAA-AF-07-LED-U-T2-7060-600

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 80°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3768.4  | 3768.4  | 3768.4  | 3768.4  | 3768.4  | 3768.4  | 3768.4  | 3768.4  | 3768.4  | 3768.4  | 3768.4  |
| 2.5°  | 4122.3  | 4098.2  | 4102.2  | 4095.6  | 4075.5  | 4040.8  | 4003.4  | 3935.3  | 3864.5  | 3827.1  | 3797.8  |
| 5°    | 4466.8  | 4460.1  | 4450.8  | 4429.4  | 4378.7  | 4306.5  | 4217.1  | 4096.9  | 3967.4  | 3899.3  | 3833.8  |
| 7.5°  | 4724.5  | 4720.5  | 4708.5  | 4695.1  | 4645.7  | 4558.9  | 4424.1  | 4253.1  | 4064.8  | 3971.4  | 3869.9  |
| 10°   | 4745.9  | 4752.6  | 4761.9  | 4798.0  | 4804.6  | 4757.9  | 4620.4  | 4413.4  | 4166.3  | 4046.1  | 3916.6  |
| 12.5° | 4564.3  | 4579.0  | 4615.0  | 4707.2  | 4804.6  | 4862.1  | 4791.3  | 4581.6  | 4285.2  | 4139.6  | 3975.4  |
| 15°   | 4323.9  | 4331.9  | 4376.0  | 4502.8  | 4677.8  | 4855.4  | 4922.1  | 4767.2  | 4438.7  | 4259.8  | 4063.5  |
| 17.5° | 4221.1  | 4225.1  | 4255.8  | 4339.9  | 4502.8  | 4756.6  | 4995.6  | 4968.9  | 4627.0  | 4409.4  | 4171.7  |
| 20°   | 4169.0  | 4178.3  | 4222.4  | 4305.2  | 4408.0  | 4629.7  | 5006.3  | 5186.5  | 4851.4  | 4596.3  | 4307.9  |
| 22.5° | 4317.2  | 4313.2  | 4329.2  | 4370.6  | 4457.4  | 4591.0  | 4998.3  | 5410.9  | 5137.1  | 4836.7  | 4485.5  |
| 25°   | 4663.1  | 4677.8  | 4649.7  | 4603.0  | 4631.0  | 4724.5  | 5041.0  | 5653.9  | 5495.0  | 5145.2  | 4717.8  |
| 27.5° | 5155.8  | 5141.1  | 5099.7  | 4990.2  | 4932.8  | 4972.9  | 5182.5  | 5915.7  | 5939.7  | 5551.1  | 5025.0  |
| 30°   | 5647.2  | 5635.2  | 5595.2  | 5461.6  | 5344.1  | 5310.7  | 5457.6  | 6216.1  | 6469.8  | 6038.5  | 5401.5  |
| 32.5° | 6157.4  | 6144.0  | 6106.6  | 5973.1  | 5831.5  | 5754.1  | 5848.9  | 6563.3  | 7094.8  | 6620.7  | 5844.9  |
| 35°   | 6786.3  | 6760.9  | 6682.2  | 6496.5  | 6357.7  | 6297.6  | 6341.6  | 7000.0  | 7815.9  | 7309.8  | 6383.0  |
| 37.5° | 7377.9  | 7416.6  | 7336.5  | 7080.1  | 6899.8  | 6878.5  | 6927.9  | 7532.8  | 8593.1  | 8080.3  | 7001.3  |
| 40°   | 7972.1  | 7978.8  | 7906.7  | 7697.0  | 7511.4  | 7476.7  | 7600.9  | 8179.1  | 9510.4  | 9001.7  | 7753.1  |
| 42.5° | 8586.4  | 8599.7  | 8478.2  | 8284.6  | 8148.4  | 8155.1  | 8296.6  | 8936.2  | 10562.7 | 10087.3 | 8618.4  |
| 45°   | 9314.2  | 9334.2  | 9200.6  | 8946.9  | 8822.7  | 9072.5  | 9013.7  | 9785.5  | 11716.5 | 11321.2 | 9611.9  |
| 47.5° | 10075.3 | 10106.0 | 10004.5 | 9766.8  | 9611.9  | 9955.1  | 9730.8  | 10727.0 | 12958.4 | 12644.5 | 10702.9 |
| 50°   | 10490.6 | 10534.7 | 10633.5 | 10616.1 | 10582.7 | 10525.3 | 10530.7 | 11736.5 | 14239.0 | 14022.6 | 11824.6 |
| 52.5° | 10267.6 | 10266.3 | 10626.8 | 11064.8 | 11532.2 | 11566.9 | 11505.5 | 12800.8 | 15435.5 | 15370.0 | 12880.9 |
| 55°   | 9247.4  | 9316.8  | 9863.0  | 10710.9 | 11987.5 | 12784.8 | 12966.4 | 14020.0 | 16610.6 | 16686.7 | 13953.2 |
| 57.5° | 7548.8  | 7606.2  | 8343.3  | 9525.1  | 11373.3 | 13508.5 | 15044.2 | 15792.0 | 17924.6 | 18279.8 | 15380.7 |
| 60°   | 5119.8  | 5189.2  | 5970.4  | 7389.9  | 9720.1  | 13105.2 | 17021.9 | 18954.1 | 19497.6 | 20305.5 | 17383.7 |
| 62.5° | 3008.6  | 3071.3  | 3708.3  | 4661.7  | 6843.7  | 11231.7 | 17889.8 | 23453.0 | 21996.1 | 23362.2 | 20439.1 |
| 65°   | 2071.1  | 2113.9  | 2423.7  | 2901.7  | 3932.6  | 7564.8  | 16813.5 | 26559.0 | 25840.6 | 27149.2 | 23981.8 |
| 67.5° | 1666.5  | 1661.2  | 1906.9  | 2232.7  | 2531.8  | 3900.6  | 12714.0 | 26207.8 | 29221.7 | 29767.9 | 25820.6 |
| 70°   | 1372.8  | 1367.4  | 1534.3  | 1804.1  | 2023.1  | 2196.7  | 6925.2  | 22116.3 | 28532.7 | 28754.4 | 24127.3 |
| 72.5° | 1148.4  | 1153.8  | 1260.6  | 1460.9  | 1659.9  | 1654.5  | 3043.3  | 15558.3 | 22446.1 | 23979.1 | 19233.2 |
| 75°   | 969.5   | 972.1   | 1042.9  | 1184.5  | 1347.4  | 1332.7  | 1650.5  | 8428.8  | 13047.8 | 14114.8 | 10661.5 |
| 77.5° | 825.3   | 827.9   | 873.3   | 952.1   | 1068.3  | 1062.9  | 1204.5  | 3641.5  | 5442.9  | 5376.2  | 3646.9  |
| 80°   | 735.8   | 735.8   | 757.2   | 771.8   | 835.9   | 811.9   | 893.4   | 1749.3  | 2300.8  | 2124.6  | 1455.5  |
| 82.5° | 576.9   | 579.5   | 710.4   | 705.1   | 658.3   | 627.6   | 627.6   | 1030.9  | 1219.2  | 1127.0  | 852.0   |
| 85°   | 324.5   | 323.2   | 458.0   | 552.8   | 579.5   | 442.0   | 438.0   | 576.9   | 663.7   | 584.9   | 412.6   |
| 87.5° | 138.9   | 141.5   | 212.3   | 245.7   | 328.5   | 275.1   | 271.1   | 297.8   | 337.8   | 292.4   | 191.0   |
| 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: P299016

CATALOG NUMBER: GAA-AF-07-LED-U-T2-7060-600

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3768.4  | 3768.4 | 3768.4 | 3768.4 | 3768.4 | 3768.4 | 3768.4 | 3768.4 | 3768.4 | 3768.4 | 3768.4 |
| 2.5°  | 3769.7  | 3735.0 | 3658.9 | 3564.1 | 3478.6 | 3422.5 | 3371.8 | 3298.3 | 3302.4 | 3251.6 | 3214.2 |
| 5°    | 3767.1  | 3694.9 | 3518.7 | 3309.0 | 3107.4 | 2961.8 | 2852.3 | 2753.5 | 2729.5 | 2682.7 | 2654.7 |
| 7.5°  | 3769.7  | 3652.2 | 3355.8 | 3020.6 | 2770.9 | 2586.6 | 2493.1 | 2441.0 | 2429.0 | 2413.0 | 2414.3 |
| 10°   | 3779.1  | 3613.5 | 3176.8 | 2750.8 | 2489.1 | 2367.6 | 2344.9 | 2360.9 | 2379.6 | 2385.0 | 2386.3 |
| 12.5° | 3800.4  | 3578.8 | 2980.5 | 2510.5 | 2312.8 | 2275.5 | 2314.2 | 2368.9 | 2405.0 | 2422.3 | 2421.0 |
| 15°   | 3848.5  | 3552.1 | 2792.2 | 2322.2 | 2215.4 | 2235.4 | 2307.5 | 2385.0 | 2437.0 | 2461.1 | 2462.4 |
| 17.5° | 3900.6  | 3513.3 | 2598.6 | 2178.0 | 2143.3 | 2194.0 | 2283.5 | 2374.3 | 2438.4 | 2465.1 | 2470.4 |
| 20°   | 3968.7  | 3465.3 | 2395.6 | 2069.8 | 2075.2 | 2132.6 | 2216.7 | 2307.5 | 2378.3 | 2401.0 | 2411.7 |
| 22.5° | 4058.2  | 3413.2 | 2218.0 | 1981.7 | 1997.7 | 2041.8 | 2107.2 | 2186.0 | 2247.4 | 2258.1 | 2267.4 |
| 25°   | 4178.3  | 3357.1 | 2076.5 | 1901.6 | 1908.2 | 1933.6 | 1977.7 | 2024.4 | 2067.1 | 2055.1 | 2064.5 |
| 27.5° | 4339.9  | 3309.0 | 1971.0 | 1828.1 | 1816.1 | 1821.4 | 1844.1 | 1858.8 | 1881.5 | 1848.1 | 1852.1 |
| 30°   | 4529.5  | 3256.9 | 1889.5 | 1764.0 | 1730.6 | 1721.3 | 1726.6 | 1734.6 | 1752.0 | 1706.6 | 1699.9 |
| 32.5° | 4749.9  | 3194.2 | 1813.4 | 1707.9 | 1661.2 | 1642.5 | 1645.2 | 1666.5 | 1733.3 | 1705.3 | 1690.6 |
| 35°   | 5006.3  | 3123.4 | 1733.3 | 1646.5 | 1614.5 | 1587.7 | 1585.1 | 1651.8 | 1850.8 | 1833.5 | 1820.1 |
| 37.5° | 5306.7  | 3052.6 | 1653.2 | 1577.1 | 1579.7 | 1550.4 | 1541.0 | 1617.1 | 1873.5 | 1805.4 | 1796.1 |
| 40°   | 5688.6  | 3015.2 | 1585.1 | 1503.6 | 1537.0 | 1533.0 | 1514.3 | 1553.0 | 1724.0 | 1599.8 | 1583.7 |
| 42.5° | 6161.4  | 3020.6 | 1534.3 | 1424.8 | 1486.3 | 1529.0 | 1499.6 | 1500.9 | 1562.4 | 1468.9 | 1454.2 |
| 45°   | 6744.9  | 3083.4 | 1498.3 | 1362.1 | 1428.8 | 1525.0 | 1494.3 | 1472.9 | 1478.2 | 1428.8 | 1420.8 |
| 47.5° | 7425.9  | 3212.9 | 1472.9 | 1310.0 | 1374.1 | 1510.3 | 1492.9 | 1464.9 | 1452.9 | 1426.2 | 1419.5 |
| 50°   | 8183.1  | 3401.2 | 1454.2 | 1260.6 | 1324.7 | 1486.3 | 1494.3 | 1456.9 | 1443.5 | 1432.8 | 1428.8 |
| 52.5° | 8926.9  | 3616.2 | 1426.2 | 1217.9 | 1286.0 | 1456.9 | 1498.3 | 1448.9 | 1434.2 | 1426.2 | 1422.2 |
| 55°   | 9756.2  | 3884.6 | 1383.4 | 1181.8 | 1253.9 | 1419.5 | 1498.3 | 1436.8 | 1420.8 | 1422.2 | 1420.8 |
| 57.5° | 10876.5 | 4318.6 | 1332.7 | 1151.1 | 1215.2 | 1374.1 | 1472.9 | 1423.5 | 1403.5 | 1404.8 | 1406.1 |
| 60°   | 12627.2 | 5083.7 | 1271.3 | 1120.4 | 1167.1 | 1320.7 | 1438.2 | 1394.1 | 1374.1 | 1379.4 | 1380.8 |
| 62.5° | 15201.8 | 6206.8 | 1191.1 | 1075.0 | 1116.4 | 1263.3 | 1390.1 | 1356.7 | 1336.7 | 1350.1 | 1350.1 |
| 65°   | 17877.8 | 7197.6 | 1092.3 | 1017.5 | 1062.9 | 1200.5 | 1330.0 | 1310.0 | 1290.0 | 1320.7 | 1319.3 |
| 67.5° | 18597.6 | 6975.9 | 993.5  | 954.8  | 1009.5 | 1131.1 | 1257.9 | 1247.2 | 1236.5 | 1290.0 | 1287.3 |
| 70°   | 16521.1 | 5600.5 | 902.7  | 890.7  | 950.8  | 1056.3 | 1180.5 | 1180.5 | 1173.8 | 1213.8 | 1204.5 |
| 72.5° | 12587.1 | 3971.4 | 815.9  | 822.6  | 884.0  | 974.8  | 1096.3 | 1105.7 | 1095.0 | 1115.0 | 1107.0 |
| 75°   | 6738.2  | 2272.8 | 729.1  | 747.8  | 801.2  | 892.0  | 1002.9 | 1012.2 | 1005.5 | 1004.2 | 1008.2 |
| 77.5° | 2239.4  | 1111.0 | 638.3  | 667.7  | 714.4  | 806.6  | 905.4  | 920.1  | 904.0  | 901.4  | 900.0  |
| 80°   | 997.5   | 698.4  | 538.2  | 576.9  | 618.3  | 709.1  | 802.6  | 814.6  | 797.2  | 821.2  | 790.5  |
| 82.5° | 641.0   | 459.4  | 431.3  | 474.1  | 514.1  | 611.6  | 699.7  | 702.4  | 686.4  | 797.2  | 679.7  |
| 85°   | 311.1   | 284.4  | 324.5  | 363.2  | 397.9  | 480.7  | 579.5  | 580.9  | 540.8  | 492.7  | 475.4  |
| 87.5° | 154.9   | 165.6  | 216.3  | 251.0  | 268.4  | 329.8  | 422.0  | 414.0  | 396.6  | 360.5  | 332.5  |
| 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)