

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: P200664

Luminaire Tested: **GAP-AF-02-LED-U-T2R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-T2R-8030
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10561 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
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

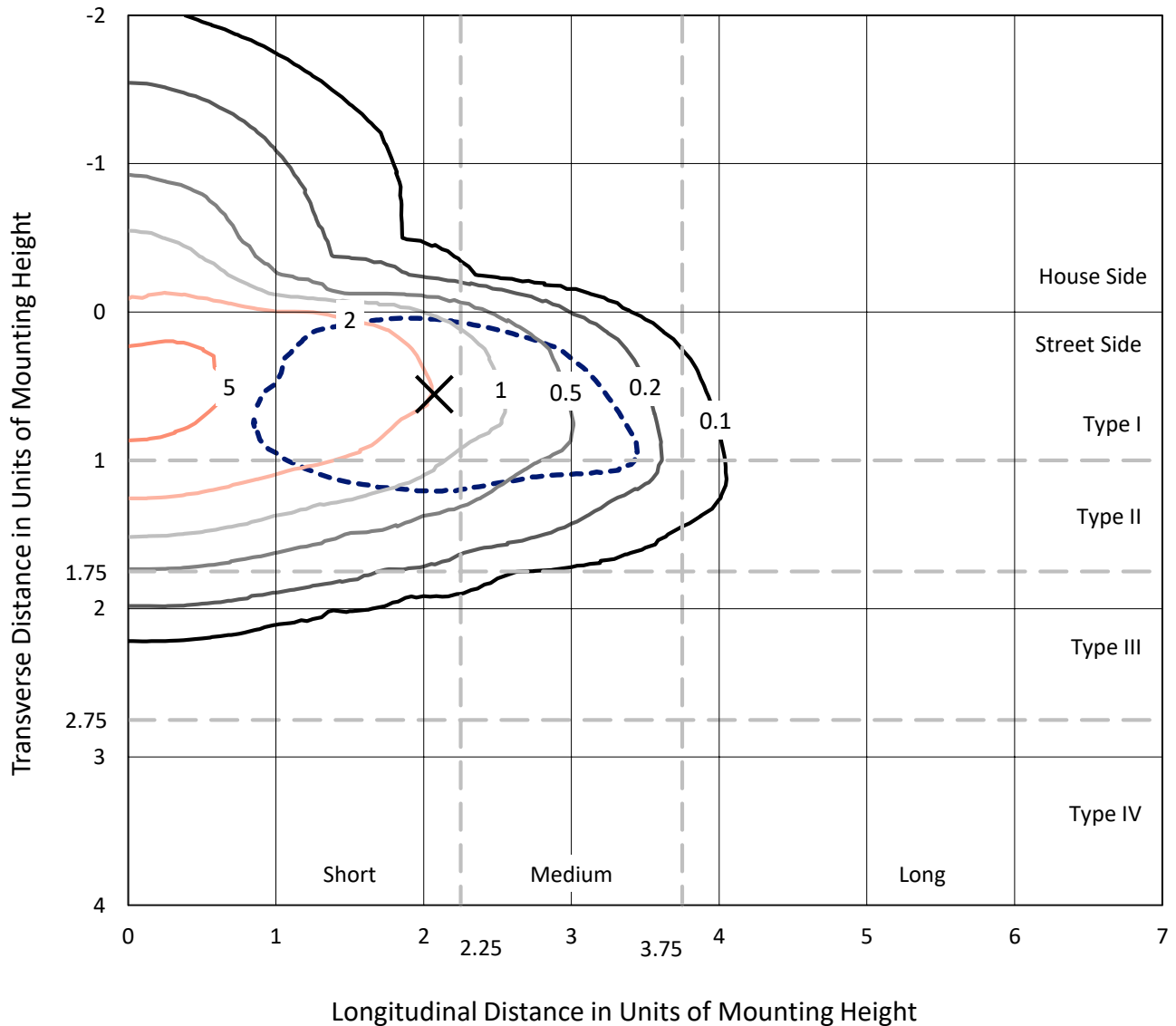


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Iso-Footcandle Lines of Horizontal Illumination

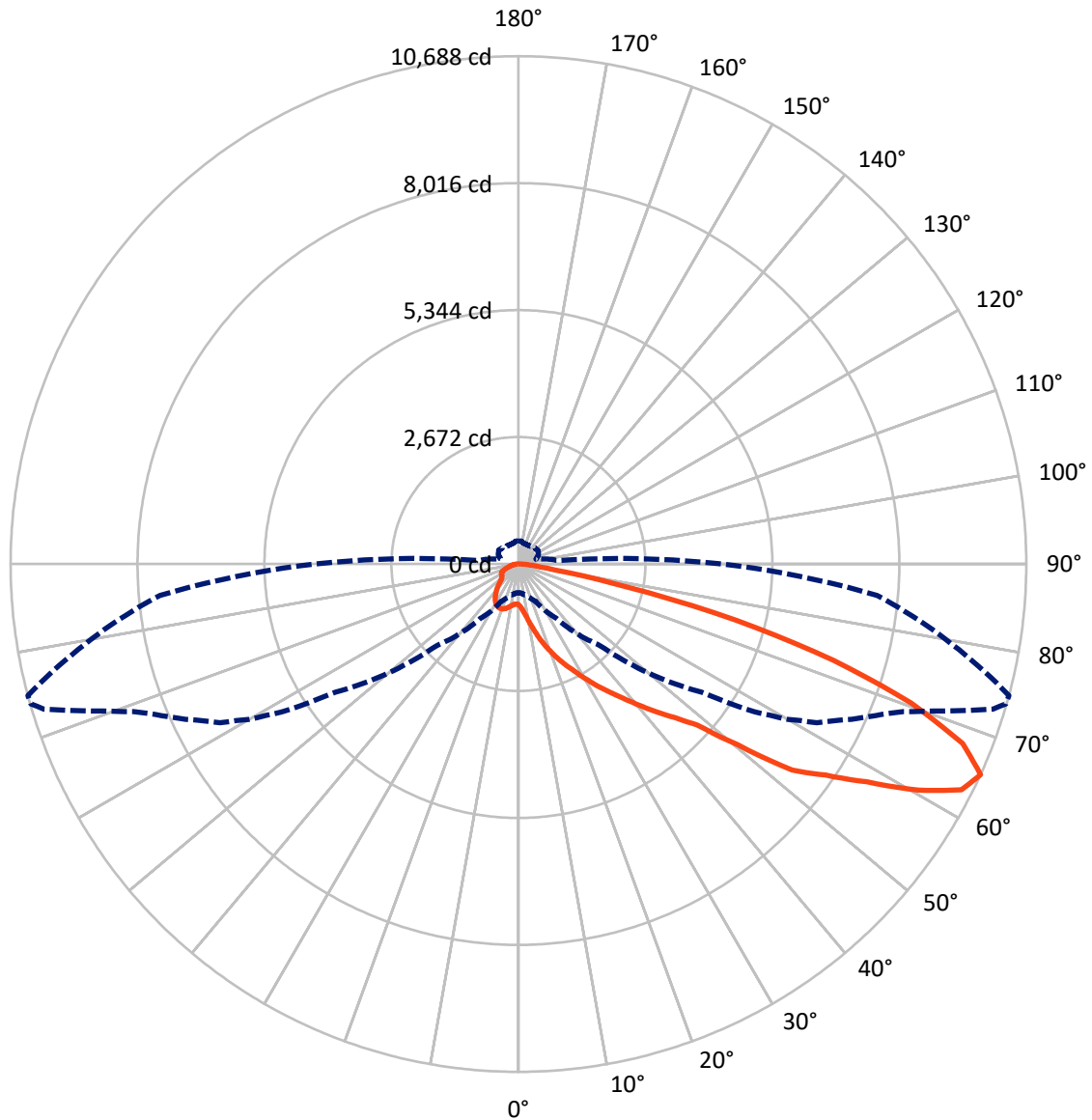
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1628.3 | 0.0 | 1628.3 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 8932.7 | 0.0 | 8932.7 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 10561.0 | 0.0 | 10561.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 106.1 | 1.0 |
| 10°-20° | 414.5 | 3.9 |
| 20°-30° | 850.4 | 8.1 |
| 30°-40° | 1430.8 | 13.5 |
| 40°-50° | 1977.0 | 18.7 |
| 50°-60° | 2467.9 | 23.4 |
| 60°-70° | 2220.8 | 21.0 |
| 70°-80° | 930.9 | 8.8 |
| 80°-90° | 162.6 | 1.5 |
| 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° | 10561.0 | 100.0 |
| 0°-180° | 10561.0 | 100.0 |

Coefficient of Utilization



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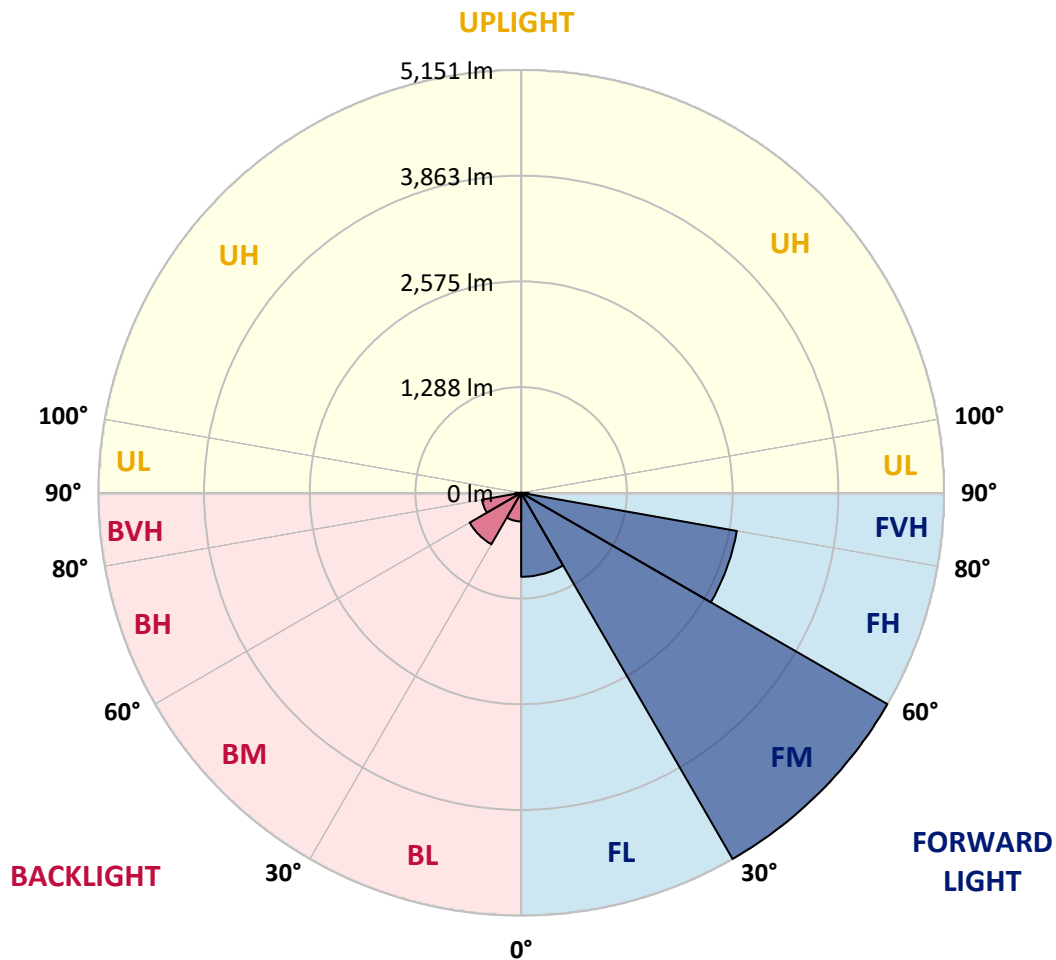
CATALOG NUMBER: GAP-AF-02-LED-U-T2R-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1022.8 | 9.7 | | | |
| FM | (30°-60°) | 5150.9 | 48.8 | | | |
| FH | (60°-80°) | 2667.7 | 25.3 | | | G2/5000 |
| FVH | (80°-90°) | 91.4 | 0.9 | | | G1/100 |
| BL | (0°-30°) | 348.2 | 3.3 | B1/500 | | |
| BM | (30°-60°) | 724.8 | 6.9 | B1/1000 | | |
| BH | (60°-80°) | 484.1 | 4.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 71.2 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 |
| 2.5° | 1089.7 | 1077.7 | 1080.7 | 1060.7 | 1036.2 | 1004.2 | 968.8 | 968.3 | 968.8 | 965.3 | 952.3 |
| 5° | 1511.1 | 1496.6 | 1491.1 | 1446.1 | 1380.2 | 1286.2 | 1184.2 | 1173.2 | 1168.7 | 1157.2 | 1130.7 |
| 7.5° | 1818.5 | 1810.5 | 1802.0 | 1768.1 | 1708.1 | 1603.1 | 1466.1 | 1442.6 | 1420.1 | 1414.6 | 1384.7 |
| 10° | 2017.0 | 2015.0 | 1997.0 | 1988.0 | 1950.5 | 1859.5 | 1726.1 | 1703.6 | 1679.1 | 1670.6 | 1639.1 |
| 12.5° | 2174.0 | 2173.5 | 2165.0 | 2167.5 | 2135.0 | 2069.0 | 1954.0 | 1933.5 | 1915.5 | 1889.5 | 1867.0 |
| 15° | 2282.4 | 2282.9 | 2295.4 | 2309.4 | 2304.4 | 2259.9 | 2152.0 | 2143.0 | 2127.5 | 2109.5 | 2083.0 |
| 17.5° | 2371.4 | 2373.9 | 2386.9 | 2412.4 | 2439.9 | 2436.4 | 2350.9 | 2343.4 | 2329.9 | 2305.4 | 2291.4 |
| 20° | 2572.4 | 2581.8 | 2556.9 | 2556.9 | 2559.9 | 2573.4 | 2532.4 | 2526.4 | 2507.4 | 2494.4 | 2483.4 |
| 22.5° | 2911.8 | 2922.8 | 2866.3 | 2808.8 | 2752.3 | 2711.3 | 2670.3 | 2677.8 | 2664.8 | 2655.8 | 2649.3 |
| 25° | 3352.7 | 3361.2 | 3269.7 | 3172.7 | 3057.7 | 2907.8 | 2806.3 | 2801.8 | 2794.8 | 2789.3 | 2786.3 |
| 27.5° | 3767.5 | 3771.0 | 3684.6 | 3542.6 | 3409.1 | 3193.7 | 2944.3 | 2938.8 | 2930.3 | 2919.8 | 2910.8 |
| 30° | 4122.5 | 4121.5 | 4032.5 | 3897.0 | 3754.1 | 3515.6 | 3153.7 | 3136.7 | 3111.7 | 3083.2 | 3061.2 |
| 32.5° | 4429.9 | 4428.4 | 4330.9 | 4190.4 | 4040.5 | 3834.5 | 3440.6 | 3405.6 | 3366.6 | 3311.2 | 3277.7 |
| 35° | 4671.8 | 4670.8 | 4578.8 | 4432.4 | 4260.4 | 4135.0 | 3769.5 | 3726.6 | 3677.1 | 3602.6 | 3551.1 |
| 37.5° | 4763.3 | 4763.3 | 4711.8 | 4611.8 | 4459.9 | 4373.9 | 4135.0 | 4083.0 | 4030.0 | 3945.5 | 3887.5 |
| 40° | 4709.8 | 4710.8 | 4721.8 | 4703.3 | 4629.3 | 4563.3 | 4475.9 | 4444.9 | 4399.4 | 4323.4 | 4262.9 |
| 42.5° | 4530.4 | 4535.9 | 4608.8 | 4698.3 | 4735.3 | 4724.8 | 4778.3 | 4764.3 | 4732.3 | 4673.8 | 4625.8 |
| 45° | 4302.9 | 4319.9 | 4399.9 | 4568.8 | 4764.8 | 4864.3 | 5031.7 | 5033.2 | 5027.2 | 4995.7 | 4958.7 |
| 47.5° | 3990.5 | 4014.5 | 4120.0 | 4348.4 | 4695.8 | 4999.7 | 5289.2 | 5302.7 | 5315.2 | 5294.7 | 5277.7 |
| 50° | 3575.6 | 3604.1 | 3762.1 | 4065.0 | 4555.3 | 5140.2 | 5775.5 | 5836.5 | 5893.5 | 5886.5 | 5898.0 |
| 52.5° | 3131.2 | 3164.7 | 3358.2 | 3695.6 | 4313.9 | 5172.7 | 6086.5 | 6185.9 | 6285.4 | 6366.9 | 6453.4 |
| 55° | 2730.3 | 2712.3 | 2905.8 | 3261.2 | 3917.0 | 5026.2 | 6365.9 | 6485.9 | 6596.8 | 6696.8 | 6799.8 |
| 57.5° | 2186.9 | 2216.4 | 2410.4 | 2761.8 | 3391.6 | 4612.8 | 6558.3 | 6733.8 | 6893.3 | 7058.7 | 7204.7 |
| 60° | 1598.6 | 1628.1 | 1838.5 | 2195.4 | 2821.3 | 3986.0 | 6411.4 | 6677.3 | 6932.7 | 7186.2 | 7384.1 |
| 62.5° | 965.3 | 987.3 | 1172.7 | 1512.6 | 2175.5 | 3242.7 | 5756.5 | 6105.5 | 6481.4 | 6784.3 | 7087.7 |
| 65° | 600.8 | 613.3 | 681.8 | 868.8 | 1397.1 | 2420.9 | 4703.3 | 5083.7 | 5488.6 | 5873.0 | 6188.4 |
| 67.5° | 491.9 | 496.4 | 508.9 | 548.9 | 767.3 | 1578.6 | 3500.6 | 3837.5 | 4202.9 | 4574.8 | 4925.8 |
| 70° | 442.4 | 439.4 | 439.4 | 441.9 | 491.9 | 848.8 | 2291.9 | 2511.4 | 2815.8 | 3139.2 | 3460.1 |
| 72.5° | 399.4 | 396.4 | 390.9 | 383.4 | 401.4 | 517.9 | 1184.7 | 1350.2 | 1569.6 | 1857.0 | 2164.5 |
| 75° | 358.9 | 354.9 | 348.4 | 338.9 | 351.4 | 390.9 | 568.9 | 638.3 | 745.3 | 898.3 | 1069.7 |
| 77.5° | 316.9 | 311.9 | 305.9 | 298.9 | 314.9 | 303.9 | 333.4 | 358.4 | 399.4 | 448.4 | 512.9 |
| 80° | 269.4 | 264.9 | 262.9 | 259.4 | 278.4 | 231.4 | 235.4 | 250.9 | 274.9 | 301.4 | 331.4 |
| 82.5° | 210.9 | 210.9 | 218.9 | 220.4 | 241.4 | 166.5 | 176.0 | 189.5 | 201.9 | 215.9 | 229.9 |
| 85° | 139.0 | 140.0 | 167.0 | 177.5 | 190.5 | 112.0 | 132.0 | 136.5 | 146.5 | 154.5 | 160.5 |
| 87.5° | 43.5 | 47.0 | 102.0 | 113.0 | 109.5 | 63.5 | 81.0 | 83.0 | 90.0 | 95.5 | 100.5 |
| 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: GAP-AF-02-LED-U-T2R-8030

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 |
| 2.5° | 952.3 | 946.3 | 940.8 | 940.3 | 936.3 | 930.8 | 932.8 | 924.3 | 924.8 | 920.3 | 915.3 |
| 5° | 1119.7 | 1115.7 | 1095.7 | 1090.2 | 1075.2 | 1065.7 | 1064.2 | 1044.2 | 1041.7 | 1030.2 | 1017.7 |
| 7.5° | 1360.7 | 1347.7 | 1319.7 | 1306.2 | 1280.7 | 1261.7 | 1252.7 | 1226.2 | 1213.2 | 1183.2 | 1169.7 |
| 10° | 1613.1 | 1596.6 | 1562.1 | 1543.1 | 1518.6 | 1488.1 | 1471.6 | 1433.1 | 1418.1 | 1390.6 | 1357.7 |
| 12.5° | 1847.0 | 1830.5 | 1795.0 | 1780.6 | 1748.1 | 1715.6 | 1697.6 | 1654.1 | 1634.6 | 1590.6 | 1564.6 |
| 15° | 2063.5 | 2047.0 | 2016.0 | 2001.0 | 1968.5 | 1942.0 | 1918.0 | 1875.0 | 1852.0 | 1811.0 | 1777.1 |
| 17.5° | 2273.4 | 2255.9 | 2228.9 | 2215.4 | 2183.9 | 2157.0 | 2131.0 | 2090.5 | 2067.0 | 2026.0 | 1995.5 |
| 20° | 2468.4 | 2455.4 | 2435.9 | 2417.9 | 2386.4 | 2361.9 | 2330.9 | 2295.9 | 2261.9 | 2231.9 | 2202.9 |
| 22.5° | 2638.3 | 2633.3 | 2612.3 | 2604.3 | 2577.3 | 2556.4 | 2529.4 | 2494.9 | 2470.4 | 2432.4 | 2405.4 |
| 25° | 2784.8 | 2783.3 | 2773.3 | 2770.8 | 2751.8 | 2731.8 | 2725.8 | 2697.3 | 2674.8 | 2641.3 | 2613.3 |
| 27.5° | 2910.8 | 2912.3 | 2909.8 | 2916.8 | 2911.8 | 2902.8 | 2903.3 | 2893.8 | 2880.8 | 2852.8 | 2828.3 |
| 30° | 3050.7 | 3042.7 | 3047.2 | 3057.2 | 3060.2 | 3061.2 | 3077.7 | 3083.2 | 3082.2 | 3063.7 | 3051.7 |
| 32.5° | 3248.7 | 3229.7 | 3212.2 | 3210.7 | 3220.7 | 3224.7 | 3252.7 | 3267.2 | 3279.7 | 3284.2 | 3286.2 |
| 35° | 3501.1 | 3463.1 | 3426.6 | 3407.1 | 3390.1 | 3394.6 | 3414.6 | 3438.1 | 3465.6 | 3484.6 | 3507.1 |
| 37.5° | 3819.0 | 3772.5 | 3708.1 | 3662.1 | 3650.6 | 3625.6 | 3638.6 | 3657.1 | 3684.1 | 3713.6 | 3752.6 |
| 40° | 4204.4 | 4134.0 | 4061.5 | 4000.5 | 3967.5 | 3921.5 | 3921.0 | 3917.5 | 3934.0 | 3961.5 | 4016.5 |
| 42.5° | 4575.3 | 4512.9 | 4435.9 | 4371.9 | 4328.9 | 4267.4 | 4254.9 | 4222.4 | 4229.9 | 4253.9 | 4307.4 |
| 45° | 4922.8 | 4871.3 | 4824.3 | 4750.3 | 4713.8 | 4647.3 | 4626.3 | 4587.8 | 4566.3 | 4577.3 | 4630.8 |
| 47.5° | 5259.2 | 5226.2 | 5177.2 | 5129.2 | 5101.2 | 5041.7 | 5014.7 | 4987.2 | 4959.7 | 4958.7 | 5014.7 |
| 50° | 5915.0 | 5897.5 | 5839.5 | 5789.5 | 5803.0 | 5730.1 | 5734.6 | 5660.6 | 5694.1 | 5698.1 | 5815.5 |
| 52.5° | 6531.4 | 6592.3 | 6635.3 | 6687.8 | 6721.8 | 6728.3 | 6750.8 | 6784.3 | 6824.8 | 6904.8 | 7013.7 |
| 55° | 6884.3 | 6960.7 | 7005.2 | 7045.2 | 7111.2 | 7125.2 | 7162.7 | 7207.2 | 7242.7 | 7332.6 | 7425.1 |
| 57.5° | 7303.7 | 7445.6 | 7514.6 | 7578.1 | 7667.1 | 7701.1 | 7763.5 | 7812.0 | 7858.0 | 7964.5 | 8076.5 |
| 60° | 7562.1 | 7735.0 | 7875.5 | 7976.0 | 8087.5 | 8167.4 | 8261.9 | 8337.9 | 8445.9 | 8573.3 | 8740.3 |
| 62.5° | 7356.6 | 7610.6 | 7797.0 | 7969.5 | 8120.9 | 8273.9 | 8409.4 | 8551.3 | 8715.3 | 8908.3 | 9167.2 |
| 65° | 6538.3 | 6796.8 | 7116.2 | 7295.2 | 7495.6 | 7731.5 | 7937.5 | 8167.4 | 8390.9 | 8671.8 | 9054.7 |
| 67.5° | 5263.7 | 5564.1 | 5923.0 | 6103.5 | 6333.9 | 6597.3 | 6828.3 | 7109.2 | 7370.1 | 7710.6 | 8183.9 |
| 70° | 3794.0 | 4182.4 | 4484.4 | 4672.8 | 4941.8 | 5213.2 | 5436.1 | 5763.0 | 5979.0 | 6327.9 | 6817.3 |
| 72.5° | 2402.4 | 2708.8 | 3078.7 | 3316.2 | 3555.1 | 3830.0 | 4058.0 | 4339.9 | 4541.4 | 4859.3 | 5302.7 |
| 75° | 1291.7 | 1517.6 | 1842.5 | 2068.0 | 2323.9 | 2558.9 | 2825.8 | 3014.7 | 3163.7 | 3415.1 | 3775.0 |
| 77.5° | 605.3 | 742.8 | 907.3 | 1080.7 | 1254.2 | 1435.1 | 1611.1 | 1764.1 | 1828.0 | 1972.0 | 2184.4 |
| 80° | 367.4 | 411.9 | 459.9 | 513.4 | 585.9 | 644.3 | 721.8 | 777.8 | 781.8 | 827.3 | 892.3 |
| 82.5° | 245.4 | 261.9 | 276.4 | 289.9 | 308.4 | 322.9 | 339.4 | 358.9 | 366.9 | 377.4 | 398.4 |
| 85° | 167.5 | 175.5 | 178.5 | 187.0 | 185.0 | 190.0 | 196.5 | 202.9 | 206.4 | 205.9 | 215.4 |
| 87.5° | 103.0 | 107.0 | 109.0 | 111.0 | 109.5 | 107.5 | 110.5 | 114.0 | 115.0 | 112.0 | 113.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|--------|--------|---------|---------|---------|--------|--------|--------|--------|-------|-------|
| 0° | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 |
| 2.5° | 916.3 | 911.8 | 907.3 | 904.3 | 903.3 | 876.8 | 865.3 | 857.8 | 841.8 | 828.8 | 818.3 |
| 5° | 1010.7 | 1001.2 | 993.7 | 984.8 | 979.8 | 912.8 | 888.3 | 871.3 | 843.3 | 826.8 | 811.8 |
| 7.5° | 1162.7 | 1136.2 | 1120.7 | 1103.2 | 1088.2 | 967.3 | 926.8 | 900.3 | 861.3 | 839.3 | 822.3 |
| 10° | 1335.2 | 1307.7 | 1283.2 | 1256.2 | 1232.7 | 1039.7 | 980.8 | 939.8 | 888.3 | 859.8 | 837.3 |
| 12.5° | 1527.6 | 1500.6 | 1469.6 | 1435.1 | 1405.1 | 1131.7 | 1049.7 | 991.2 | 920.8 | 882.8 | 851.3 |
| 15° | 1755.1 | 1707.6 | 1670.1 | 1630.1 | 1595.1 | 1241.7 | 1130.2 | 1049.2 | 955.3 | 903.8 | 861.8 |
| 17.5° | 1966.5 | 1916.5 | 1865.5 | 1830.5 | 1790.0 | 1365.2 | 1211.2 | 1108.2 | 983.8 | 917.3 | 863.8 |
| 20° | 2173.0 | 2118.5 | 2074.5 | 2027.5 | 1985.0 | 1493.1 | 1297.7 | 1160.2 | 1002.2 | 917.8 | 851.3 |
| 22.5° | 2354.9 | 2320.9 | 2271.9 | 2220.9 | 2178.0 | 1621.1 | 1378.7 | 1204.2 | 1009.2 | 906.3 | 829.3 |
| 25° | 2561.9 | 2525.9 | 2465.9 | 2422.9 | 2374.9 | 1751.6 | 1458.1 | 1238.2 | 1005.2 | 884.8 | 795.3 |
| 27.5° | 2782.8 | 2742.8 | 2681.3 | 2636.3 | 2578.3 | 1887.0 | 1531.1 | 1262.7 | 990.2 | 849.8 | 749.8 |
| 30° | 3013.2 | 2976.7 | 2916.3 | 2870.8 | 2812.3 | 2030.5 | 1612.6 | 1279.2 | 960.3 | 801.3 | 696.8 |
| 32.5° | 3260.7 | 3230.2 | 3170.2 | 3122.7 | 3060.2 | 2185.9 | 1688.6 | 1284.2 | 914.8 | 743.8 | 640.8 |
| 35° | 3495.6 | 3474.6 | 3424.1 | 3379.6 | 3314.7 | 2332.9 | 1769.1 | 1281.7 | 860.8 | 680.8 | 589.9 |
| 37.5° | 3760.1 | 3747.6 | 3722.6 | 3666.1 | 3586.6 | 2532.4 | 1865.5 | 1271.2 | 794.8 | 618.3 | 550.9 |
| 40° | 4042.0 | 4043.0 | 4016.0 | 3977.5 | 3903.5 | 2774.3 | 1980.5 | 1250.7 | 722.8 | 563.4 | 515.4 |
| 42.5° | 4340.4 | 4355.9 | 4342.9 | 4315.4 | 4244.4 | 3018.2 | 2118.0 | 1225.7 | 652.8 | 509.9 | 480.4 |
| 45° | 4682.3 | 4701.3 | 4721.3 | 4680.8 | 4611.8 | 3340.2 | 2298.9 | 1193.2 | 577.4 | 465.4 | 456.4 |
| 47.5° | 5076.7 | 5106.7 | 5124.7 | 5125.2 | 5056.2 | 3739.1 | 2592.8 | 1173.7 | 510.4 | 435.4 | 444.9 |
| 50° | 5909.0 | 5918.5 | 5961.0 | 6035.0 | 5982.0 | 4662.3 | 3106.2 | 1161.7 | 464.9 | 416.9 | 436.4 |
| 52.5° | 7108.2 | 7212.7 | 7286.2 | 7281.2 | 7209.2 | 5248.7 | 3389.1 | 1099.7 | 437.9 | 409.9 | 432.4 |
| 55° | 7596.6 | 7727.0 | 7863.0 | 7899.0 | 7843.0 | 5749.0 | 3656.6 | 1037.7 | 424.9 | 414.9 | 433.9 |
| 57.5° | 8247.4 | 8467.4 | 8653.8 | 8732.3 | 8651.3 | 6389.4 | 4008.5 | 1005.2 | 420.9 | 428.4 | 443.4 |
| 60° | 9007.7 | 9279.7 | 9524.6 | 9665.6 | 9665.6 | 7125.2 | 4373.4 | 991.7 | 415.4 | 448.4 | 459.4 |
| 62.5° | 9496.1 | 9895.5 | 10265.4 | 10471.9 | 10465.9 | 7637.6 | 4535.4 | 945.8 | 402.9 | 462.4 | 481.4 |
| 65° | 9498.1 | 9973.0 | 10444.4 | 10676.3 | 10688.3 | 7574.6 | 4267.9 | 835.3 | 379.9 | 464.4 | 503.4 |
| 67.5° | 8706.3 | 9212.7 | 9762.0 | 10021.5 | 10081.5 | 6972.7 | 3694.6 | 686.8 | 342.4 | 444.4 | 511.4 |
| 70° | 7353.1 | 7847.5 | 8408.4 | 8663.3 | 8769.8 | 5944.0 | 2975.7 | 529.4 | 294.4 | 400.4 | 494.9 |
| 72.5° | 5793.0 | 6277.9 | 6668.3 | 6854.8 | 6937.7 | 4543.4 | 2167.0 | 399.9 | 241.4 | 337.4 | 450.4 |
| 75° | 4101.5 | 4465.4 | 4672.8 | 4714.3 | 4727.3 | 2738.8 | 1316.7 | 297.4 | 198.9 | 262.4 | 380.4 |
| 77.5° | 2314.9 | 2470.9 | 2453.9 | 2472.4 | 2318.4 | 1057.2 | 573.4 | 212.9 | 164.0 | 199.4 | 294.9 |
| 80° | 903.8 | 931.8 | 875.3 | 857.8 | 786.8 | 393.4 | 252.9 | 148.5 | 131.0 | 151.0 | 206.4 |
| 82.5° | 398.4 | 411.4 | 399.4 | 402.4 | 384.9 | 202.9 | 151.5 | 107.5 | 100.0 | 110.5 | 137.0 |
| 85° | 219.4 | 223.4 | 222.4 | 228.9 | 219.4 | 81.0 | 72.0 | 66.0 | 70.0 | 75.0 | 88.0 |
| 87.5° | 107.0 | 108.0 | 104.5 | 110.0 | 106.5 | 41.0 | 35.5 | 37.5 | 41.0 | 42.0 | 42.0 |
| 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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| 0° | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 | 858.3 |
| 2.5° | 810.8 | 806.8 | 807.3 | 806.3 | 804.3 | 804.3 |
| 5° | 803.8 | 799.8 | 799.8 | 798.8 | 796.3 | 796.8 |
| 7.5° | 810.8 | 804.3 | 801.8 | 798.3 | 794.8 | 794.8 |
| 10° | 818.8 | 807.3 | 800.3 | 794.3 | 789.8 | 789.8 |
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| 17.5° | 820.3 | 789.8 | 770.3 | 759.3 | 754.3 | 752.8 |
| 20° | 800.3 | 765.3 | 741.8 | 729.3 | 722.3 | 719.8 |
| 22.5° | 770.3 | 730.3 | 702.8 | 689.8 | 680.8 | 679.3 |
| 25° | 728.3 | 685.3 | 658.3 | 645.8 | 640.8 | 639.3 |
| 27.5° | 679.3 | 639.3 | 616.3 | 608.3 | 603.8 | 603.3 |
| 30° | 632.8 | 598.8 | 581.9 | 575.9 | 570.4 | 569.4 |
| 32.5° | 589.4 | 567.9 | 561.4 | 552.9 | 539.9 | 538.4 |
| 35° | 558.4 | 556.4 | 551.9 | 532.9 | 516.9 | 512.4 |
| 37.5° | 539.4 | 557.9 | 534.9 | 497.4 | 485.9 | 484.9 |
| 40° | 528.4 | 542.4 | 502.9 | 489.9 | 490.9 | 489.9 |
| 42.5° | 503.4 | 517.9 | 503.9 | 497.9 | 501.9 | 502.9 |
| 45° | 478.4 | 494.4 | 511.4 | 507.4 | 516.9 | 516.9 |
| 47.5° | 464.4 | 488.4 | 510.9 | 510.9 | 524.9 | 529.9 |
| 50° | 448.4 | 483.4 | 502.9 | 509.9 | 520.9 | 516.9 |
| 52.5° | 447.4 | 474.9 | 491.4 | 503.9 | 508.9 | 504.4 |
| 55° | 448.9 | 467.9 | 479.9 | 493.9 | 499.9 | 500.4 |
| 57.5° | 450.9 | 463.9 | 471.9 | 478.4 | 496.4 | 496.4 |
| 60° | 455.9 | 460.4 | 464.9 | 468.4 | 491.9 | 492.4 |
| 62.5° | 463.9 | 456.9 | 455.9 | 459.4 | 489.4 | 487.4 |
| 65° | 476.4 | 451.9 | 444.4 | 447.9 | 486.9 | 480.9 |
| 67.5° | 493.4 | 444.4 | 429.9 | 432.4 | 484.9 | 471.9 |
| 70° | 508.9 | 432.4 | 411.9 | 409.4 | 465.9 | 442.9 |
| 72.5° | 510.4 | 418.4 | 386.9 | 379.4 | 404.9 | 382.9 |
| 75° | 485.4 | 408.9 | 359.4 | 337.4 | 334.4 | 331.4 |
| 77.5° | 437.4 | 403.4 | 327.4 | 292.9 | 286.9 | 288.9 |
| 80° | 365.9 | 382.9 | 288.9 | 247.9 | 280.4 | 276.9 |
| 82.5° | 273.4 | 337.9 | 245.4 | 219.4 | 218.9 | 193.5 |
| 85° | 152.0 | 263.4 | 199.9 | 164.5 | 114.5 | 111.0 |
| 87.5° | 42.5 | 146.5 | 140.0 | 93.0 | 63.5 | 66.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)