

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: P194638

Luminaire Tested: **GAN-AF-10-LED-U-SLL-7060-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SLL-7060-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51777 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

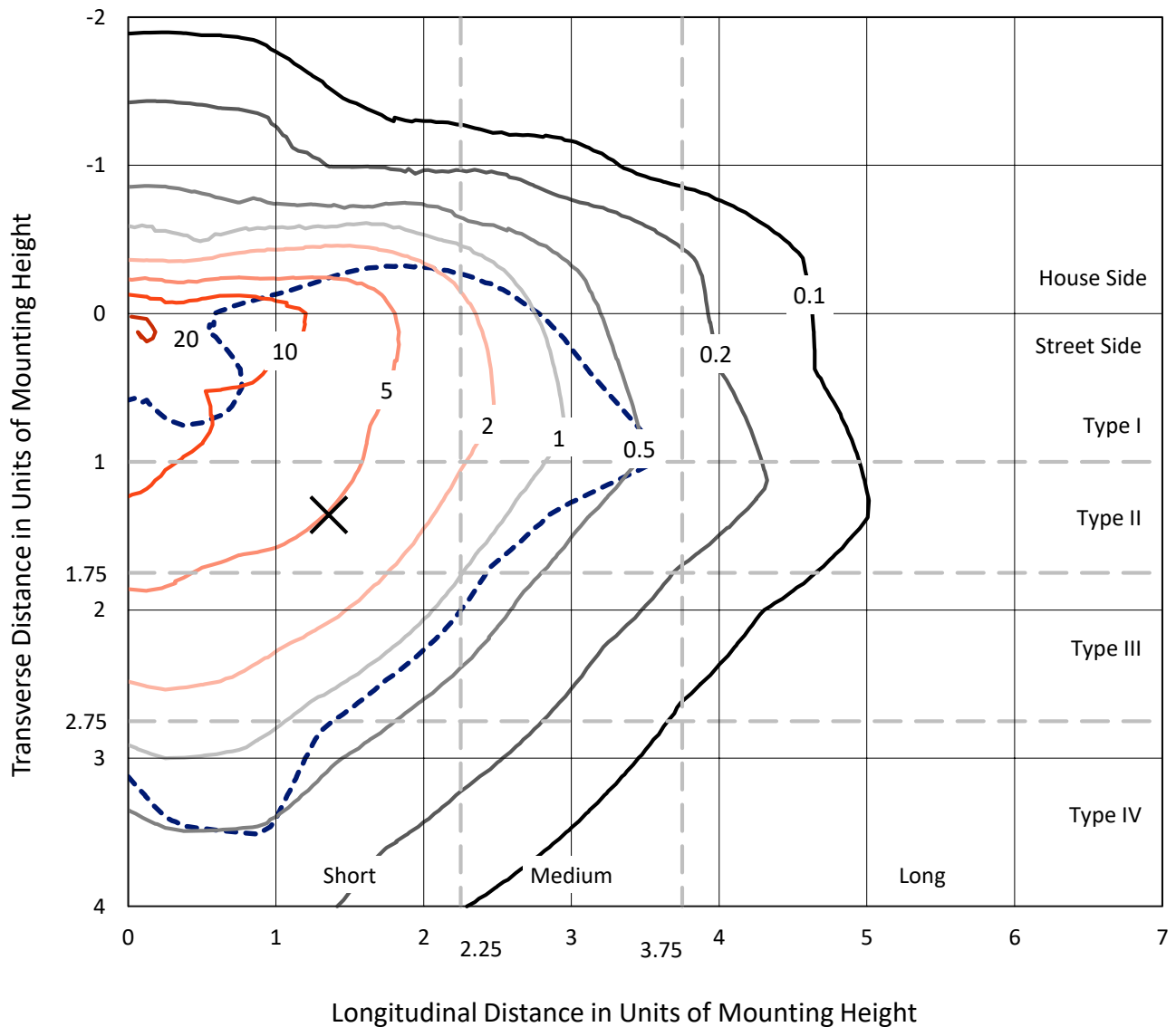
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

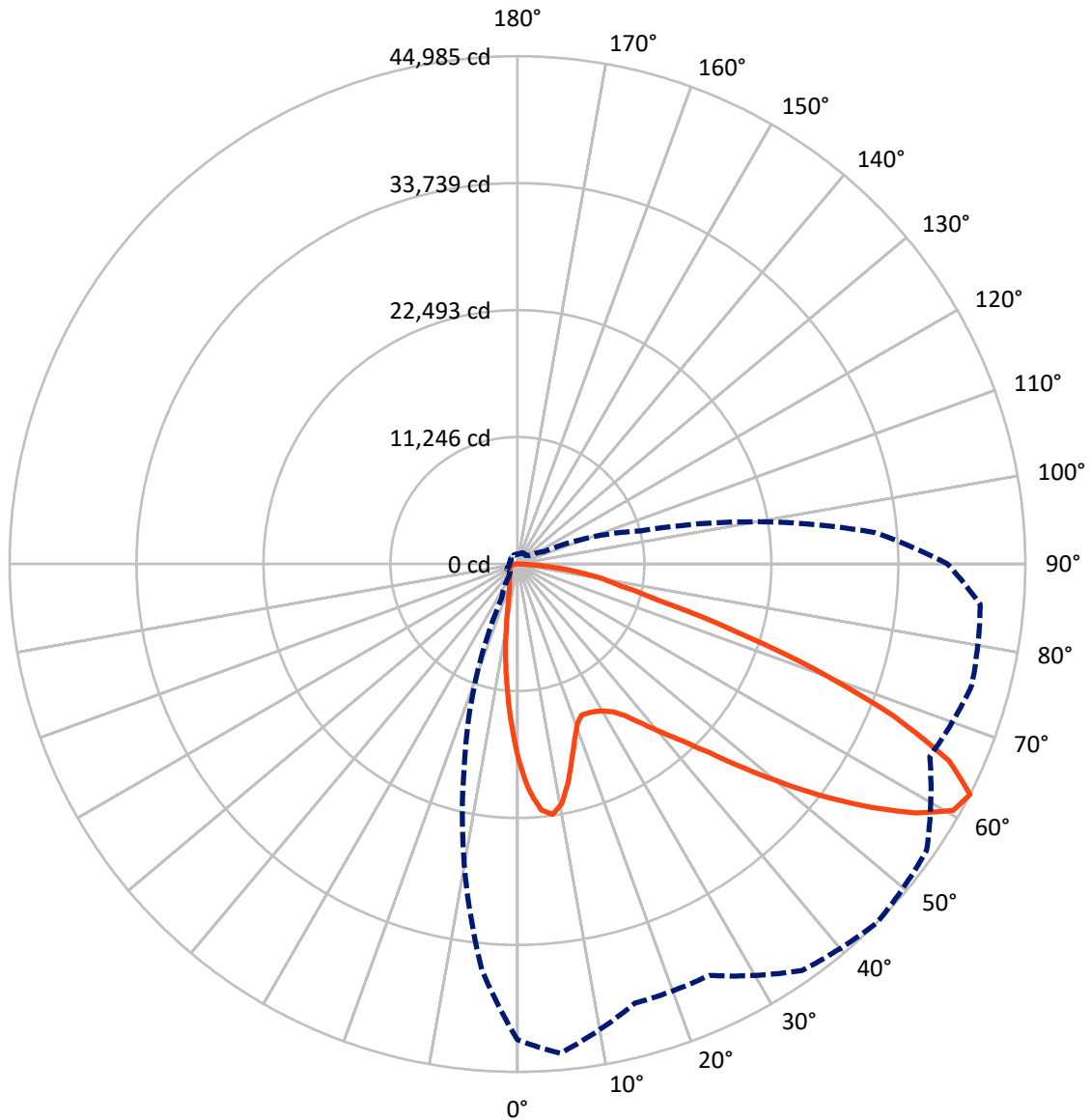
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 22.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8568.4 | 0.0 | 8568.4 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 43208.6 | 0.0 | 43208.6 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 51777.0 | 0.0 | 51777.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1273.4 | 2.5 |
| 10°-20° | 2335.1 | 4.5 |
| 20°-30° | 3404.6 | 6.6 |
| 30°-40° | 5243.5 | 10.1 |
| 40°-50° | 7717.1 | 14.9 |
| 50°-60° | 11319.3 | 21.9 |
| 60°-70° | 12653.4 | 24.4 |
| 70°-80° | 6194.9 | 12.0 |
| 80°-90° | 1635.6 | 3.2 |
| 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° | 51777.0 | 100.0 |
| 0°-180° | 51777.0 | 100.0 |

Coefficient of Utilization



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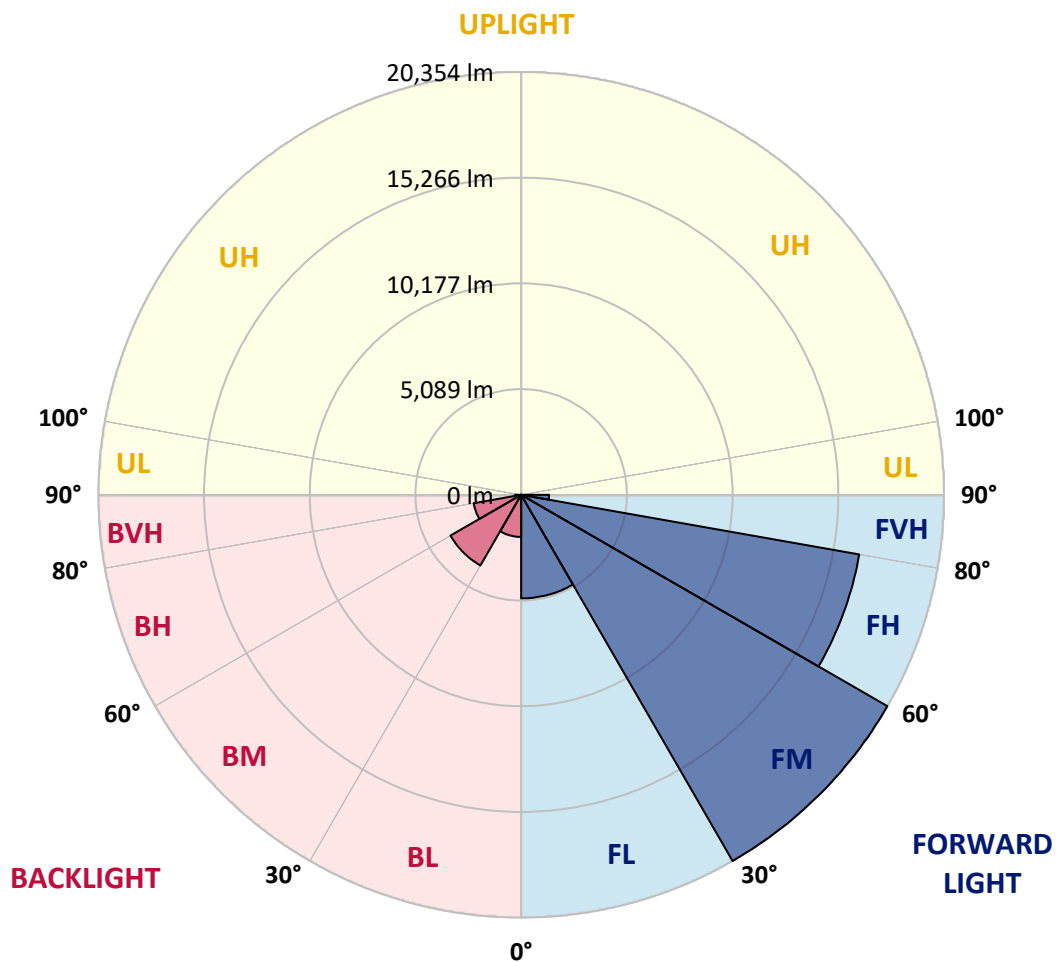
CATALOG NUMBER: GAN-AF-10-LED-U-SLL-7060-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4986.0 | 9.6 | | | |
| FM | (30°-60°) | 20354.0 | 39.3 | | | |
| FH | (60°-80°) | 16525.4 | 31.9 | | | G5 |
| FVH | (80°-90°) | 1343.2 | 2.6 | | | G5 |
| BL | (0°-30°) | 2027.1 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 3926.0 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 2322.9 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 292.4 | 0.6 | | | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 |
| 2.5° | 18176.2 | 18466.5 | 19032.9 | 19457.0 | 19972.1 | 20091.7 | 20256.8 | 20094.5 | 19807.1 | 19425.7 | 19300.4 |
| 5° | 17091.7 | 17712.2 | 19087.0 | 20296.6 | 21372.5 | 21873.4 | 22012.9 | 21600.2 | 20766.2 | 19670.4 | 19001.6 |
| 7.5° | 15352.7 | 16235.0 | 18096.5 | 19878.2 | 21463.6 | 22400.0 | 22377.2 | 21418.0 | 19883.9 | 18099.3 | 17026.3 |
| 10° | 13852.7 | 14860.3 | 16995.0 | 18987.3 | 20669.5 | 21577.4 | 21227.3 | 20000.6 | 18170.5 | 16115.5 | 14951.4 |
| 12.5° | 13013.1 | 14000.7 | 16166.7 | 18167.6 | 19573.7 | 19886.8 | 19619.2 | 18418.1 | 16693.3 | 14615.5 | 13596.5 |
| 15° | 12867.9 | 13952.3 | 15836.5 | 17464.6 | 18253.0 | 17979.8 | 17661.0 | 17123.0 | 15904.9 | 14131.6 | 13070.0 |
| 17.5° | 13496.9 | 14692.3 | 16215.1 | 16975.0 | 16841.3 | 16365.9 | 16274.9 | 16334.6 | 16041.5 | 14669.6 | 13445.7 |
| 20° | 14703.7 | 16138.2 | 17117.4 | 16744.5 | 15768.2 | 15113.6 | 15136.4 | 16050.0 | 16918.1 | 16032.9 | 14635.4 |
| 22.5° | 16397.3 | 18033.8 | 18418.1 | 16866.9 | 15315.7 | 14538.7 | 14726.5 | 16206.6 | 18315.6 | 18025.3 | 16240.7 |
| 25° | 18588.9 | 20080.3 | 19804.2 | 17310.9 | 15361.2 | 14609.8 | 14760.7 | 16747.3 | 19966.5 | 20017.7 | 18227.4 |
| 27.5° | 20712.2 | 22095.4 | 20968.3 | 17900.1 | 15549.1 | 14777.7 | 14977.0 | 17598.4 | 21543.3 | 22180.8 | 20498.7 |
| 30° | 22368.7 | 23330.7 | 21429.4 | 18438.0 | 15919.1 | 15105.1 | 15352.7 | 18406.7 | 22260.5 | 23641.0 | 22246.3 |
| 32.5° | 23740.6 | 24432.2 | 22163.8 | 19104.0 | 16599.3 | 15620.2 | 16055.7 | 19388.7 | 23293.7 | 25029.9 | 23956.9 |
| 35° | 25493.9 | 25690.3 | 23077.4 | 19846.9 | 17649.6 | 16516.8 | 17057.6 | 20350.7 | 24278.5 | 26433.1 | 25641.9 |
| 37.5° | 27548.9 | 27295.5 | 23939.8 | 20863.0 | 19007.3 | 17920.0 | 18366.9 | 21406.7 | 25089.7 | 28024.2 | 27363.9 |
| 40° | 29581.1 | 28972.0 | 25021.4 | 22439.8 | 20988.3 | 19573.7 | 20103.1 | 22533.8 | 25846.8 | 29618.1 | 29046.0 |
| 42.5° | 31308.8 | 30406.5 | 26088.7 | 24173.2 | 22832.6 | 21398.1 | 22030.0 | 23669.4 | 26569.8 | 30978.6 | 30506.1 |
| 45° | 32586.7 | 31465.3 | 27104.8 | 25838.3 | 25374.3 | 23823.1 | 24122.0 | 24970.2 | 27352.5 | 32114.3 | 31707.2 |
| 47.5° | 33728.1 | 32529.8 | 28254.7 | 27517.6 | 27597.3 | 26976.8 | 26495.8 | 26484.4 | 28274.7 | 33042.1 | 32842.9 |
| 50° | 35256.5 | 34007.0 | 29490.0 | 29248.1 | 30933.1 | 30520.4 | 29458.7 | 28251.9 | 29441.6 | 34095.2 | 34072.5 |
| 52.5° | 37362.7 | 36346.6 | 30998.5 | 31112.4 | 34046.9 | 34317.3 | 33002.3 | 30375.2 | 31268.9 | 36027.8 | 35891.2 |
| 55° | 39853.2 | 39261.2 | 33053.5 | 33255.6 | 37866.5 | 38060.1 | 36753.6 | 33030.7 | 33955.8 | 38825.7 | 38447.2 |
| 57.5° | 41797.2 | 41672.0 | 35307.7 | 35828.6 | 40718.5 | 41589.4 | 40388.3 | 36104.7 | 36984.2 | 41182.4 | 40231.8 |
| 60° | 42571.4 | 43177.6 | 37707.1 | 38424.4 | 43356.9 | 44321.8 | 43268.7 | 38805.8 | 39668.2 | 42158.7 | 40109.4 |
| 62.5° | 42153.0 | 43507.8 | 40263.1 | 40203.3 | 43946.1 | 44985.0 | 44245.0 | 40308.6 | 41657.7 | 41151.1 | 38080.0 |
| 65° | 40220.4 | 42320.9 | 41746.0 | 39745.1 | 41931.0 | 42016.4 | 41777.3 | 39636.9 | 42127.4 | 37966.1 | 34157.9 |
| 67.5° | 36010.8 | 39033.5 | 39793.4 | 35817.2 | 36494.6 | 35939.6 | 35538.3 | 35959.5 | 39679.6 | 33193.0 | 28707.3 |
| 70° | 29330.6 | 33878.9 | 34243.2 | 28647.5 | 28340.1 | 27967.3 | 27167.5 | 29481.5 | 34849.5 | 27204.5 | 22778.5 |
| 72.5° | 21566.0 | 26347.7 | 27466.3 | 21011.0 | 19587.9 | 19664.7 | 19032.9 | 22217.8 | 28334.4 | 20208.4 | 17006.4 |
| 75° | 14755.0 | 19078.4 | 21489.2 | 14661.0 | 12953.3 | 12984.6 | 12904.9 | 15742.6 | 22567.9 | 14057.6 | 12725.6 |
| 77.5° | 10778.8 | 13630.7 | 16206.6 | 9856.6 | 9569.1 | 9392.6 | 9349.9 | 11015.0 | 17302.4 | 10206.7 | 9882.2 |
| 80° | 8649.8 | 10070.0 | 10886.9 | 6831.0 | 7346.2 | 7331.9 | 7095.7 | 7573.9 | 11299.6 | 7465.7 | 7391.7 |
| 82.5° | 5999.9 | 7739.0 | 8820.5 | 5353.8 | 4958.2 | 4875.6 | 4932.6 | 5641.3 | 7986.6 | 5103.3 | 4852.9 |
| 85° | 3165.0 | 5140.3 | 8735.1 | 4744.7 | 2943.0 | 2348.2 | 2920.3 | 4619.5 | 6919.2 | 2703.9 | 2368.1 |
| 87.5° | 404.2 | 1485.7 | 5783.6 | 1892.8 | 1161.3 | 626.2 | 1386.1 | 2601.5 | 4443.0 | 552.2 | 481.0 |
| 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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CATALOG NUMBER: GAN-AF-10-LED-U-SLL-7060-ADJ

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 |
| 2.5° | 18978.8 | 18600.3 | 18105.0 | 17646.8 | 17171.4 | 16699.0 | 16081.3 | 15694.2 | 15426.7 | 15375.4 | 15261.6 |
| 5° | 18517.7 | 17259.7 | 16309.0 | 15486.5 | 14740.7 | 13687.6 | 13104.1 | 12620.3 | 12361.3 | 12335.7 | 12273.0 |
| 7.5° | 16391.6 | 14655.3 | 13371.7 | 12207.6 | 11151.6 | 10300.6 | 9361.3 | 8923.0 | 8743.7 | 8786.4 | 8829.1 |
| 10° | 14180.0 | 12238.9 | 10764.5 | 9574.8 | 8644.1 | 7926.8 | 7172.6 | 6663.1 | 6310.1 | 6239.0 | 6224.8 |
| 12.5° | 12563.4 | 10434.4 | 9002.7 | 8163.0 | 7442.9 | 6768.4 | 5968.6 | 5368.0 | 4909.8 | 4753.2 | 4647.9 |
| 15° | 11880.3 | 9552.0 | 8052.0 | 7146.9 | 6352.8 | 5496.1 | 4753.2 | 4124.2 | 3703.0 | 3566.4 | 3489.5 |
| 17.5° | 12025.4 | 9307.2 | 7397.4 | 6239.0 | 5222.9 | 4329.1 | 3392.7 | 2854.8 | 2601.5 | 2536.0 | 2536.0 |
| 20° | 12788.2 | 9261.7 | 6856.6 | 5402.2 | 4135.6 | 3099.6 | 2331.1 | 2023.7 | 1941.1 | 1932.6 | 1955.4 |
| 22.5° | 13858.4 | 9421.1 | 6452.5 | 4676.4 | 3213.4 | 2262.8 | 1815.9 | 1702.1 | 1665.1 | 1673.6 | 1699.2 |
| 25° | 15452.3 | 9959.0 | 6159.3 | 4030.3 | 2521.8 | 1852.9 | 1619.5 | 1551.2 | 1534.1 | 1556.9 | 1588.2 |
| 27.5° | 17342.2 | 10497.0 | 5977.1 | 3543.6 | 2129.0 | 1693.5 | 1539.8 | 1468.7 | 1480.1 | 1508.5 | 1537.0 |
| 30° | 19001.6 | 10938.1 | 5689.7 | 3196.3 | 2006.6 | 1702.1 | 1539.8 | 1443.0 | 1431.7 | 1437.4 | 1445.9 |
| 32.5° | 20490.2 | 11237.0 | 5353.8 | 2866.2 | 1730.5 | 1511.4 | 1437.4 | 1423.1 | 1360.5 | 1337.7 | 1340.6 |
| 35° | 21773.8 | 11237.0 | 5151.7 | 2672.6 | 1551.2 | 1340.6 | 1221.0 | 1149.9 | 1118.6 | 1121.4 | 1152.7 |
| 37.5° | 23011.9 | 11012.1 | 5052.1 | 2564.5 | 1454.4 | 1275.1 | 1169.8 | 1107.2 | 1064.5 | 1056.0 | 1061.7 |
| 40° | 24104.9 | 10684.8 | 4938.2 | 2518.9 | 1380.4 | 1235.3 | 1135.7 | 1084.4 | 1038.9 | 1024.7 | 1027.5 |
| 42.5° | 24981.5 | 10420.1 | 4813.0 | 2459.2 | 1334.9 | 1206.8 | 1112.9 | 1067.3 | 1016.1 | 1001.9 | 999.0 |
| 45° | 25929.3 | 10331.9 | 4647.9 | 2339.6 | 1357.7 | 1209.7 | 1107.2 | 1058.8 | 1007.6 | 990.5 | 984.8 |
| 47.5° | 27178.9 | 10608.0 | 4477.2 | 2197.3 | 1406.0 | 1223.9 | 1115.7 | 1058.8 | 1004.7 | 990.5 | 984.8 |
| 50° | 28752.8 | 11256.9 | 4260.8 | 1989.5 | 1357.7 | 1263.7 | 1112.9 | 1050.3 | 1004.7 | 990.5 | 979.1 |
| 52.5° | 30773.7 | 12133.6 | 3976.2 | 1750.4 | 1329.2 | 1360.5 | 1107.2 | 1033.2 | 990.5 | 970.6 | 950.6 |
| 55° | 33230.0 | 12850.8 | 3637.5 | 1554.1 | 1263.7 | 1334.9 | 1098.7 | 1013.3 | 967.7 | 939.3 | 922.2 |
| 57.5° | 35028.8 | 13109.8 | 3202.0 | 1426.0 | 1172.7 | 1292.2 | 1087.3 | 987.6 | 939.3 | 916.5 | 893.7 |
| 60° | 34673.0 | 12608.9 | 2834.9 | 1346.3 | 1118.6 | 1167.0 | 1078.7 | 964.9 | 913.6 | 896.6 | 876.6 |
| 62.5° | 31823.9 | 11299.6 | 2598.6 | 1309.3 | 1084.4 | 1064.5 | 1087.3 | 942.1 | 890.9 | 873.8 | 868.1 |
| 65° | 27551.7 | 9367.0 | 2504.7 | 1300.7 | 1056.0 | 1004.7 | 1010.4 | 916.5 | 865.3 | 851.0 | 845.3 |
| 67.5° | 22727.3 | 7559.6 | 2422.2 | 1329.2 | 1019.0 | 962.0 | 933.6 | 882.3 | 839.6 | 825.4 | 814.0 |
| 70° | 17922.8 | 6287.4 | 2385.2 | 1312.1 | 973.4 | 919.3 | 888.0 | 845.3 | 808.3 | 794.1 | 785.6 |
| 72.5° | 14433.3 | 5311.1 | 2365.2 | 1295.0 | 913.6 | 862.4 | 834.0 | 797.0 | 757.1 | 751.4 | 742.9 |
| 75° | 12213.3 | 4175.5 | 2166.0 | 1241.0 | 845.3 | 794.1 | 774.2 | 740.0 | 700.2 | 700.2 | 694.5 |
| 77.5° | 9421.1 | 3019.9 | 1801.7 | 1098.7 | 774.2 | 717.3 | 700.2 | 674.6 | 629.0 | 637.6 | 634.7 |
| 80° | 6959.1 | 1969.6 | 1408.9 | 910.8 | 685.9 | 631.9 | 623.3 | 597.7 | 549.3 | 560.7 | 560.7 |
| 82.5° | 4767.5 | 1292.2 | 1013.3 | 745.7 | 586.3 | 535.1 | 535.1 | 509.5 | 455.4 | 461.1 | 478.2 |
| 85° | 2393.7 | 888.0 | 757.1 | 577.8 | 455.4 | 429.8 | 429.8 | 409.9 | 355.8 | 358.6 | 381.4 |
| 87.5° | 728.6 | 535.1 | 500.9 | 412.7 | 327.3 | 321.6 | 307.4 | 293.2 | 259.0 | 256.2 | 270.4 |
| 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):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 |
| 2.5° | 15088.0 | 14925.7 | 14729.3 | 14296.7 | 14151.6 | 14143.0 | 14273.9 | 14137.3 | 14399.2 | 14288.2 | 14410.6 |
| 5° | 12167.7 | 12008.3 | 11789.2 | 11237.0 | 10901.1 | 10673.4 | 10565.3 | 10246.5 | 10477.1 | 10309.1 | 10448.6 |
| 7.5° | 8948.6 | 8985.6 | 8840.5 | 8516.0 | 7784.5 | 7417.3 | 7201.0 | 7007.5 | 7175.4 | 7158.3 | 7425.9 |
| 10° | 6290.2 | 6389.8 | 6287.4 | 5960.0 | 5368.0 | 5165.9 | 5205.8 | 5282.6 | 5501.8 | 5615.7 | 6028.4 |
| 12.5° | 4528.4 | 4522.7 | 4457.2 | 4164.1 | 3774.1 | 3796.9 | 3959.1 | 4092.9 | 4295.0 | 4414.5 | 4835.8 |
| 15° | 3381.3 | 3330.1 | 3301.7 | 3062.6 | 2840.6 | 2888.9 | 2968.6 | 2982.9 | 3111.0 | 3182.1 | 3523.7 |
| 17.5° | 2555.9 | 2581.5 | 2612.9 | 2442.1 | 2274.2 | 2242.8 | 2180.2 | 2103.4 | 2140.4 | 2154.6 | 2325.4 |
| 20° | 2029.4 | 2131.8 | 2208.7 | 2089.1 | 1918.4 | 1827.3 | 1747.6 | 1696.4 | 1696.4 | 1693.5 | 1741.9 |
| 22.5° | 1773.2 | 1847.2 | 1929.8 | 1847.2 | 1693.5 | 1613.8 | 1568.3 | 1528.4 | 1522.7 | 1522.7 | 1568.3 |
| 25° | 1633.7 | 1687.8 | 1767.5 | 1710.6 | 1596.7 | 1537.0 | 1494.3 | 1443.0 | 1423.1 | 1417.4 | 1448.7 |
| 27.5° | 1565.4 | 1588.2 | 1628.1 | 1576.8 | 1480.1 | 1451.6 | 1440.2 | 1394.7 | 1369.0 | 1354.8 | 1386.1 |
| 30° | 1448.7 | 1443.0 | 1445.9 | 1394.7 | 1317.8 | 1315.0 | 1334.9 | 1343.4 | 1334.9 | 1332.0 | 1380.4 |
| 32.5° | 1340.6 | 1329.2 | 1326.4 | 1280.8 | 1209.7 | 1192.6 | 1209.7 | 1226.7 | 1246.7 | 1275.1 | 1332.0 |
| 35° | 1204.0 | 1232.4 | 1249.5 | 1209.7 | 1124.3 | 1073.0 | 1053.1 | 1021.8 | 1004.7 | 1004.7 | 1070.2 |
| 37.5° | 1095.8 | 1161.3 | 1186.9 | 1149.9 | 1056.0 | 984.8 | 950.6 | 945.0 | 947.8 | 959.2 | 1021.8 |
| 40° | 1058.8 | 1107.2 | 1130.0 | 1093.0 | 999.0 | 933.6 | 913.6 | 908.0 | 913.6 | 930.7 | 993.3 |
| 42.5° | 1036.0 | 1070.2 | 1067.3 | 1021.8 | 945.0 | 899.4 | 888.0 | 882.3 | 888.0 | 905.1 | 973.4 |
| 45° | 1016.1 | 1038.9 | 1016.1 | 962.0 | 890.9 | 868.1 | 871.0 | 868.1 | 873.8 | 890.9 | 956.3 |
| 47.5° | 999.0 | 1007.6 | 979.1 | 925.0 | 851.0 | 845.3 | 856.7 | 865.3 | 871.0 | 885.2 | 953.5 |
| 50° | 973.4 | 973.4 | 947.8 | 890.9 | 816.9 | 819.7 | 834.0 | 853.9 | 856.7 | 873.8 | 927.9 |
| 52.5° | 942.1 | 939.3 | 922.2 | 868.1 | 788.4 | 797.0 | 797.0 | 819.7 | 825.4 | 845.3 | 902.3 |
| 55° | 916.5 | 910.8 | 902.3 | 851.0 | 762.8 | 777.0 | 768.5 | 777.0 | 791.3 | 811.2 | 873.8 |
| 57.5° | 893.7 | 882.3 | 882.3 | 836.8 | 742.9 | 748.6 | 728.6 | 740.0 | 757.1 | 774.2 | 839.6 |
| 60° | 871.0 | 859.6 | 865.3 | 816.9 | 711.6 | 705.9 | 697.3 | 720.1 | 725.8 | 745.7 | 811.2 |
| 62.5° | 845.3 | 836.8 | 839.6 | 794.1 | 688.8 | 674.6 | 674.6 | 694.5 | 697.3 | 725.8 | 788.4 |
| 65° | 825.4 | 814.0 | 811.2 | 771.3 | 663.2 | 646.1 | 654.6 | 663.2 | 668.9 | 697.3 | 757.1 |
| 67.5° | 805.5 | 782.7 | 782.7 | 751.4 | 634.7 | 617.6 | 634.7 | 631.9 | 640.4 | 666.0 | 714.4 |
| 70° | 779.9 | 748.6 | 751.4 | 737.2 | 606.3 | 586.3 | 600.6 | 597.7 | 603.4 | 620.5 | 668.9 |
| 72.5° | 740.0 | 714.4 | 720.1 | 714.4 | 577.8 | 549.3 | 555.0 | 555.0 | 555.0 | 569.3 | 620.5 |
| 75° | 688.8 | 668.9 | 685.9 | 700.2 | 543.6 | 503.8 | 509.5 | 509.5 | 500.9 | 509.5 | 572.1 |
| 77.5° | 626.2 | 614.8 | 671.7 | 651.8 | 503.8 | 455.4 | 455.4 | 449.7 | 432.6 | 444.0 | 512.3 |
| 80° | 557.9 | 549.3 | 620.5 | 546.5 | 458.2 | 395.6 | 389.9 | 375.7 | 358.6 | 367.2 | 435.5 |
| 82.5° | 486.7 | 478.2 | 520.9 | 418.4 | 395.6 | 327.3 | 313.1 | 287.5 | 270.4 | 278.9 | 341.6 |
| 85° | 398.5 | 398.5 | 401.3 | 315.9 | 301.7 | 250.5 | 233.4 | 199.2 | 179.3 | 185.0 | 244.8 |
| 87.5° | 284.6 | 293.2 | 270.4 | 216.3 | 179.3 | 139.5 | 128.1 | 108.2 | 91.1 | 105.3 | 128.1 |
| 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° | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 | 17493.1 |
| 2.5° | 15036.7 | 15349.8 | 15705.6 | 16161.0 | 16551.0 | 17191.4 | 17806.1 | 18176.2 |
| 5° | 11242.7 | 11763.6 | 12412.5 | 13246.5 | 14023.5 | 15190.4 | 16348.9 | 17091.7 |
| 7.5° | 8046.4 | 8604.2 | 9304.4 | 10346.1 | 11444.8 | 12933.4 | 14464.6 | 15352.7 |
| 10° | 6657.4 | 7229.5 | 7818.7 | 8521.7 | 9421.1 | 11040.6 | 12850.8 | 13852.7 |
| 12.5° | 5507.5 | 6119.4 | 6754.2 | 7494.2 | 8328.1 | 9774.0 | 11860.3 | 13013.1 |
| 15° | 4215.3 | 4898.4 | 5647.0 | 6583.4 | 7628.0 | 9298.7 | 11615.6 | 12867.9 |
| 17.5° | 2888.9 | 3651.7 | 4571.1 | 5726.7 | 7004.6 | 9145.0 | 12053.9 | 13496.9 |
| 20° | 1989.5 | 2544.5 | 3526.5 | 4881.3 | 6418.3 | 9125.1 | 12896.4 | 14703.7 |
| 22.5° | 1665.1 | 1912.7 | 2629.9 | 4104.3 | 5977.1 | 9369.9 | 14202.8 | 16397.3 |
| 25° | 1539.8 | 1687.8 | 2100.5 | 3429.7 | 5655.5 | 9933.4 | 16001.6 | 18588.9 |
| 27.5° | 1465.8 | 1599.6 | 1907.0 | 2988.6 | 5402.2 | 10588.1 | 17752.1 | 20712.2 |
| 30° | 1494.3 | 1630.9 | 1852.9 | 2763.7 | 5057.8 | 11134.5 | 19306.1 | 22368.7 |
| 32.5° | 1346.3 | 1406.0 | 1588.2 | 2564.5 | 4810.2 | 11592.8 | 20666.6 | 23740.6 |
| 35° | 1147.0 | 1252.4 | 1417.4 | 2470.5 | 4815.9 | 11900.2 | 22149.5 | 25493.9 |
| 37.5° | 1093.0 | 1198.3 | 1317.8 | 2436.4 | 4881.3 | 12227.5 | 23851.6 | 27548.9 |
| 40° | 1058.8 | 1155.6 | 1258.0 | 2416.5 | 4943.9 | 12526.4 | 25519.5 | 29581.1 |
| 42.5° | 1036.0 | 1124.3 | 1252.4 | 2348.2 | 4975.2 | 12793.9 | 26891.4 | 31308.8 |
| 45° | 1033.2 | 1124.3 | 1275.1 | 2279.8 | 5023.6 | 13081.4 | 28041.3 | 32586.7 |
| 47.5° | 1036.0 | 1161.3 | 1232.4 | 2197.3 | 5023.6 | 13562.4 | 29390.4 | 33728.1 |
| 50° | 1024.7 | 1223.9 | 1186.9 | 2080.6 | 4906.9 | 14473.2 | 31240.5 | 35256.5 |
| 52.5° | 1019.0 | 1215.3 | 1098.7 | 1901.3 | 4704.9 | 15919.1 | 33611.4 | 37362.7 |
| 55° | 1004.7 | 1172.7 | 1036.0 | 1633.7 | 4468.6 | 17495.9 | 36150.2 | 39853.2 |
| 57.5° | 990.5 | 1038.9 | 1001.9 | 1400.4 | 4104.3 | 18605.9 | 37897.8 | 41797.2 |
| 60° | 1110.0 | 908.0 | 973.4 | 1286.5 | 3617.6 | 18910.5 | 37829.5 | 42571.4 |
| 62.5° | 1027.5 | 851.0 | 936.4 | 1260.9 | 3276.0 | 18056.6 | 36081.9 | 42153.0 |
| 65° | 805.5 | 814.0 | 899.4 | 1334.9 | 3185.0 | 15793.8 | 32985.2 | 40220.4 |
| 67.5° | 737.2 | 777.0 | 862.4 | 1428.8 | 3193.5 | 12645.9 | 28357.2 | 36010.8 |
| 70° | 694.5 | 737.2 | 819.7 | 1477.2 | 3216.3 | 9426.8 | 22419.9 | 29330.6 |
| 72.5° | 646.1 | 683.1 | 771.3 | 1485.7 | 3068.3 | 6848.1 | 17279.6 | 21566.0 |
| 75° | 589.2 | 623.3 | 703.0 | 1295.0 | 2541.7 | 4750.4 | 13218.0 | 14755.0 |
| 77.5° | 523.7 | 549.3 | 617.6 | 999.0 | 1887.1 | 3039.8 | 9922.0 | 10778.8 |
| 80° | 446.9 | 461.1 | 518.0 | 731.5 | 1292.2 | 1901.3 | 7850.0 | 8649.8 |
| 82.5° | 358.6 | 364.3 | 401.3 | 549.3 | 839.6 | 1221.0 | 5257.0 | 5999.9 |
| 85° | 253.3 | 253.3 | 276.1 | 398.5 | 572.1 | 774.2 | 2854.8 | 3165.0 |
| 87.5° | 119.5 | 122.4 | 122.4 | 219.2 | 298.9 | 392.8 | 657.5 | 404.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)