

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: P268945

Luminaire Tested: **GAN-AF-10-LED-U-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51199 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

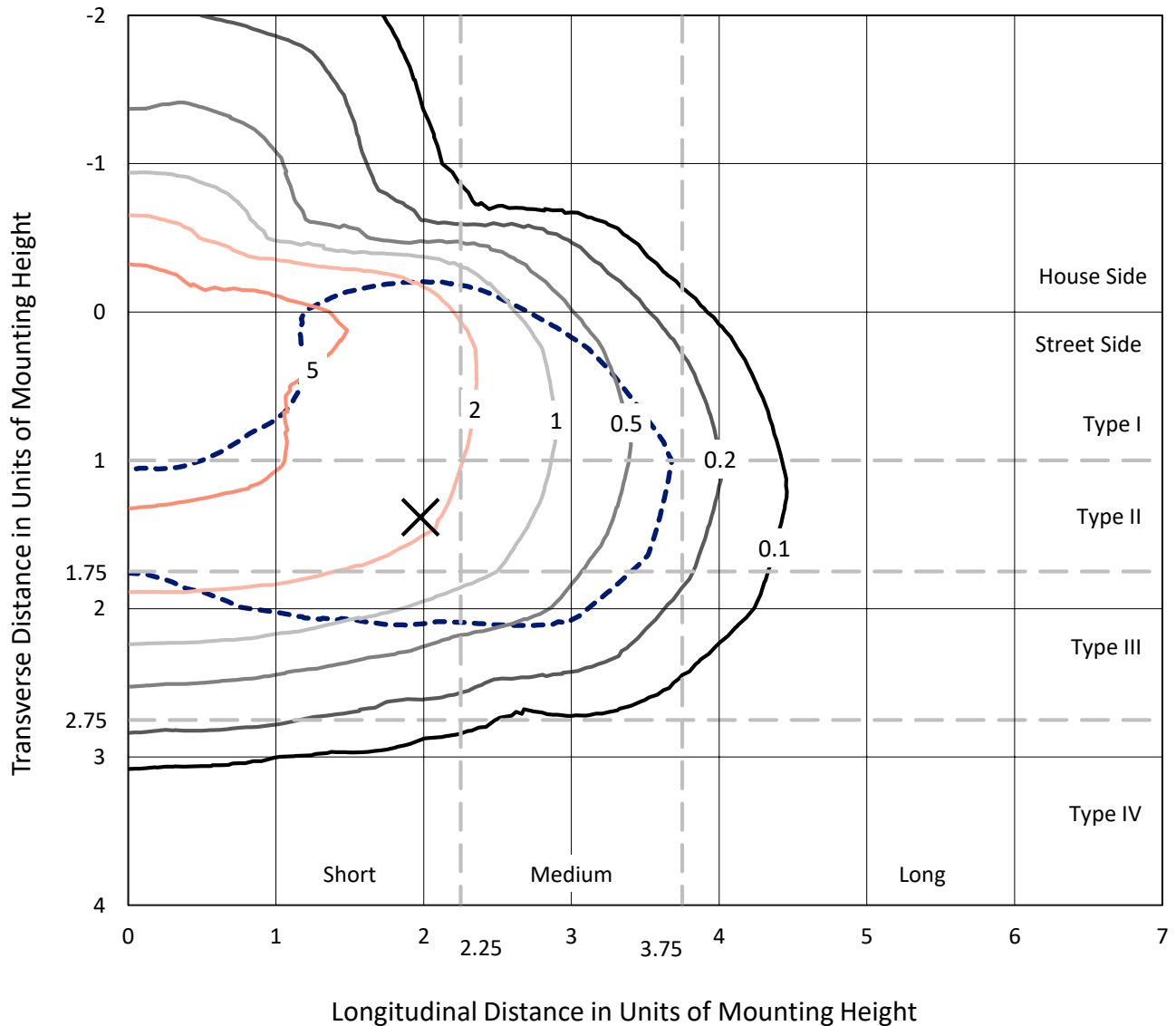
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

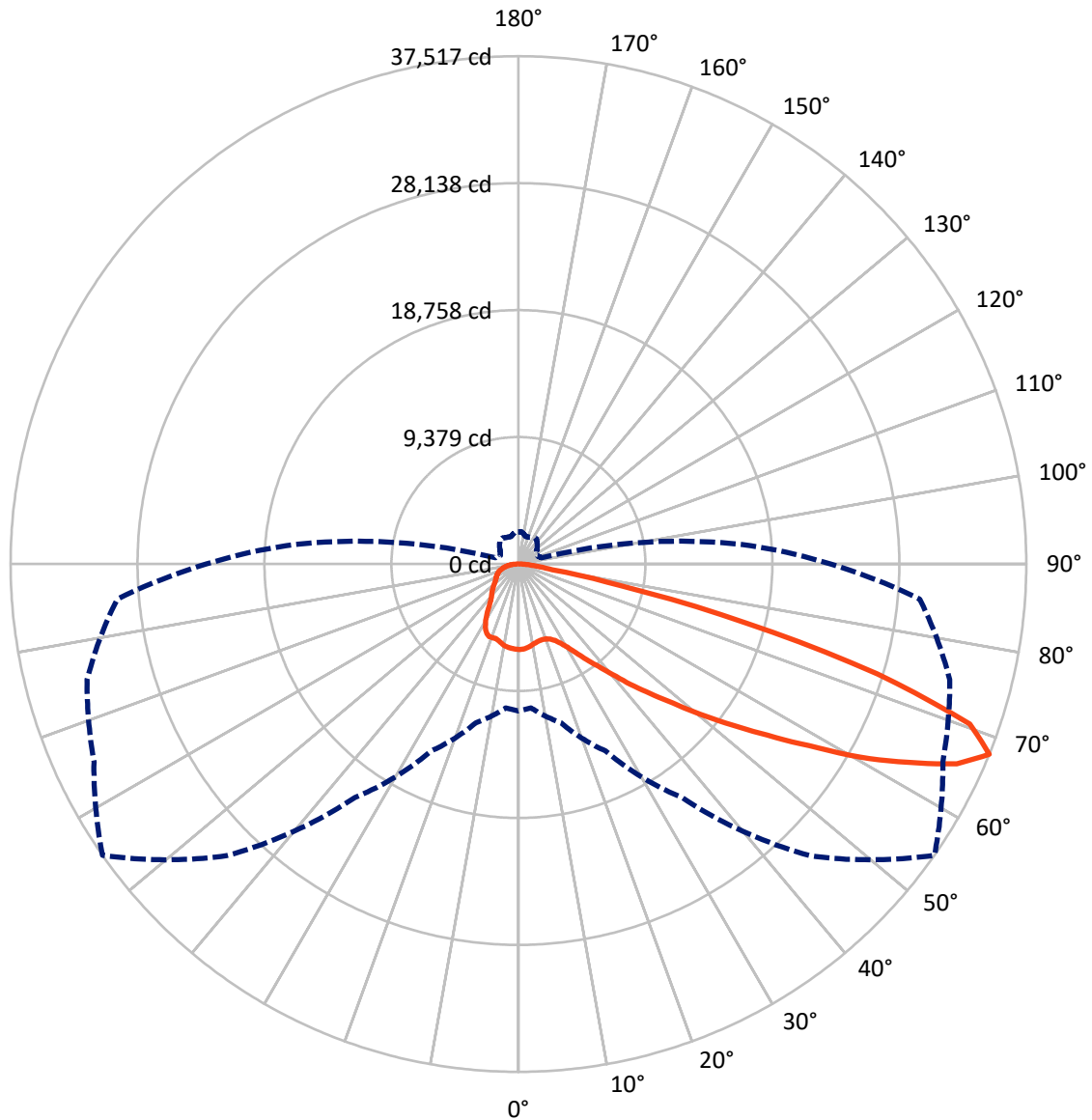
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11060.1 | 0.0 | 11060.1 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 40138.9 | 0.0 | 40138.9 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 51199.0 | 0.0 | 51199.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 589.3 | 1.2 |
| 10°-20° | 1668.9 | 3.3 |
| 20°-30° | 2795.7 | 5.5 |
| 30°-40° | 4597.3 | 9.0 |
| 40°-50° | 7738.7 | 15.1 |
| 50°-60° | 12180.2 | 23.8 |
| 60°-70° | 14535.8 | 28.4 |
| 70°-80° | 6241.9 | 12.2 |
| 80°-90° | 851.0 | 1.7 |
| 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° | 51199.0 | 100.0 |
| 0°-180° | 51199.0 | 100.0 |

Coefficient of Utilization



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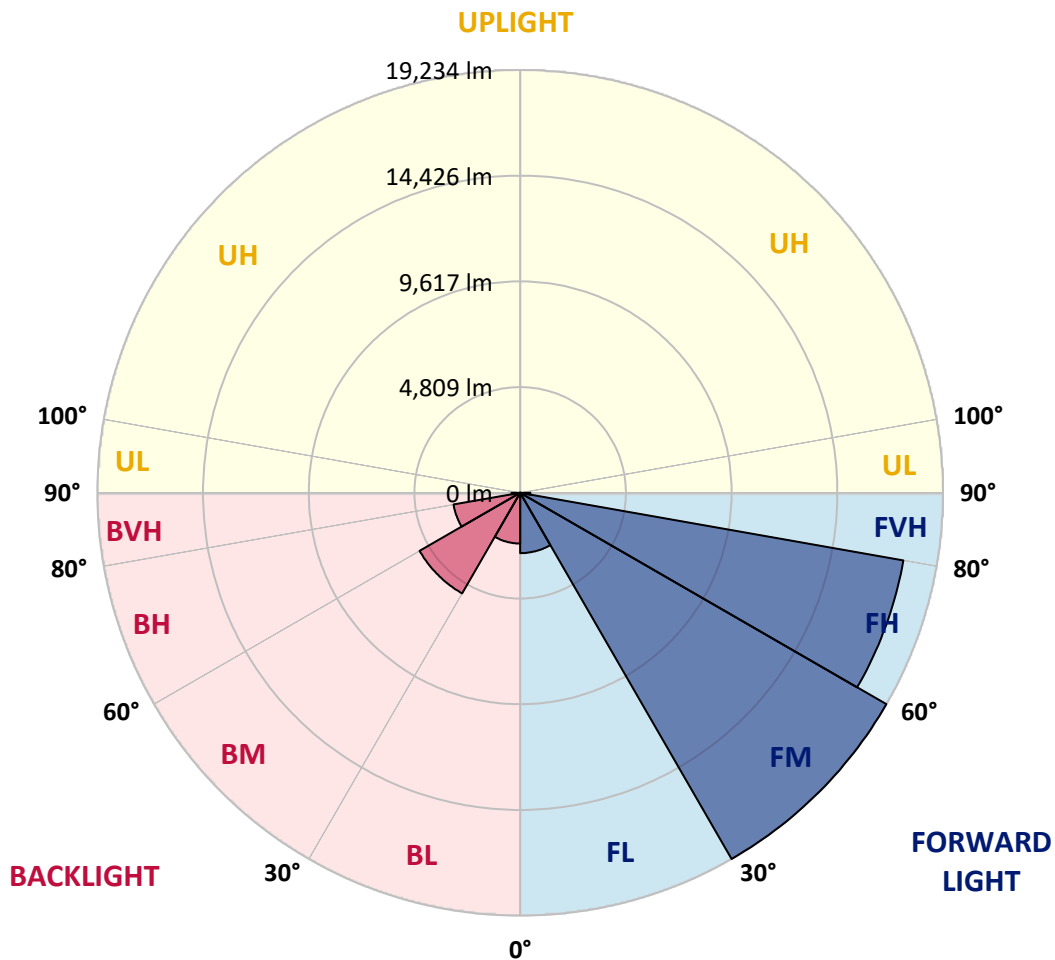
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2744.4 | 5.4 | | | |
| FM | (30°-60°) | 19234.1 | 37.6 | | | |
| FH | (60°-80°) | 17699.7 | 34.6 | | | G5 |
| FVH | (80°-90°) | 460.7 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 2309.6 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 5282.2 | 10.3 | B4/8500 | | |
| BH | (60°-80°) | 3078.0 | 6.0 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 390.4 | 0.8 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6313.4 | 6313.4 | 6313.4 | 6313.4 | 6313.4 | 6313.4 | 6313.4 | 6313.4 | 6313.4 | 6313.4 | 6313.4 |
| 2.5° | 6259.0 | 6261.5 | 6266.3 | 6286.2 | 6303.4 | 6298.6 | 6301.0 | 6291.1 | 6288.7 | 6273.9 | 6288.7 |
| 5° | 6179.9 | 6187.3 | 6189.7 | 6221.9 | 6241.7 | 6246.6 | 6239.2 | 6226.8 | 6212.0 | 6197.1 | 6204.7 |
| 7.5° | 5999.3 | 6019.2 | 6021.6 | 6066.2 | 6098.2 | 6140.3 | 6142.8 | 6145.2 | 6137.8 | 6127.9 | 6142.8 |
| 10° | 5885.5 | 5890.5 | 5888.0 | 5920.2 | 5945.0 | 5992.0 | 6019.2 | 6066.2 | 6085.8 | 6090.9 | 6100.7 |
| 12.5° | 5878.1 | 5873.2 | 5865.8 | 5865.8 | 5858.3 | 5878.1 | 5927.6 | 5994.4 | 6041.5 | 6056.3 | 6068.6 |
| 15° | 5957.3 | 5954.9 | 5930.2 | 5893.1 | 5846.0 | 5831.2 | 5873.2 | 5947.4 | 6009.2 | 6041.5 | 6053.8 |
| 17.5° | 6135.3 | 6120.5 | 6080.9 | 5996.8 | 5895.4 | 5856.0 | 5860.8 | 5922.6 | 5994.4 | 6036.4 | 6048.7 |
| 20° | 6461.8 | 6461.8 | 6377.6 | 6219.4 | 6038.9 | 5945.0 | 5900.3 | 5937.4 | 6006.7 | 6063.6 | 6080.9 |
| 22.5° | 7025.6 | 7030.6 | 6889.6 | 6629.9 | 6325.8 | 6125.5 | 6014.2 | 6006.7 | 6088.4 | 6152.6 | 6172.4 |
| 25° | 7824.3 | 7804.6 | 7606.8 | 7235.8 | 6773.4 | 6441.9 | 6249.1 | 6204.7 | 6273.9 | 6345.5 | 6370.3 |
| 27.5° | 8754.3 | 8682.5 | 8447.5 | 7999.9 | 7401.4 | 6916.8 | 6620.0 | 6548.4 | 6615.1 | 6696.8 | 6721.4 |
| 30° | 9674.0 | 9599.8 | 9320.5 | 8830.9 | 8165.7 | 7552.3 | 7127.1 | 7010.7 | 7104.8 | 7220.9 | 7235.8 |
| 32.5° | 10594.0 | 10594.0 | 10282.4 | 9711.1 | 8986.6 | 8311.5 | 7802.0 | 7663.6 | 7819.3 | 7960.4 | 7992.5 |
| 35° | 11694.5 | 11699.4 | 11397.8 | 10710.2 | 9931.3 | 9216.6 | 8655.3 | 8553.9 | 8788.7 | 8887.7 | 8964.4 |
| 37.5° | 13047.3 | 13074.4 | 12686.1 | 11855.2 | 11002.1 | 10250.3 | 9582.6 | 9444.2 | 9679.1 | 9948.5 | 10195.9 |
| 40° | 14508.6 | 14543.3 | 14115.4 | 13091.7 | 12238.6 | 11452.1 | 10730.1 | 10480.3 | 10871.0 | 11385.4 | 11704.3 |
| 42.5° | 15903.5 | 16081.5 | 15668.4 | 14615.1 | 13697.5 | 12884.0 | 12152.0 | 11788.5 | 12278.2 | 13054.6 | 13331.6 |
| 45° | 17918.9 | 18047.5 | 17327.9 | 16373.2 | 15510.2 | 14600.2 | 13630.8 | 13247.5 | 13932.5 | 14911.8 | 14968.6 |
| 47.5° | 19261.6 | 19165.2 | 18799.2 | 18205.7 | 17659.2 | 16808.5 | 15349.5 | 14929.1 | 15839.2 | 16991.5 | 16672.5 |
| 50° | 19976.4 | 20006.1 | 19956.6 | 19991.2 | 20011.0 | 19476.8 | 17456.5 | 16880.2 | 17965.8 | 19358.1 | 18623.7 |
| 52.5° | 20643.9 | 20446.2 | 20609.5 | 21420.5 | 22399.7 | 22202.0 | 19748.8 | 19147.9 | 20245.9 | 21984.4 | 20686.1 |
| 55° | 20629.1 | 20327.4 | 20859.2 | 22291.0 | 24415.3 | 24642.8 | 22323.2 | 21630.7 | 22657.1 | 24801.0 | 22872.1 |
| 57.5° | 19899.7 | 19914.5 | 20733.1 | 22607.6 | 25819.9 | 26937.7 | 25310.5 | 24271.8 | 25213.9 | 27654.9 | 24867.8 |
| 60° | 18895.7 | 19031.8 | 20211.2 | 22555.6 | 26945.1 | 28819.6 | 28975.3 | 27118.2 | 27719.1 | 30248.8 | 26519.8 |
| 62.5° | 17275.9 | 17419.4 | 19046.6 | 22016.5 | 26774.4 | 30632.3 | 32289.0 | 30347.8 | 30337.9 | 31821.6 | 27004.4 |
| 65° | 14721.3 | 14679.4 | 16388.0 | 20001.0 | 25342.7 | 31972.6 | 35580.5 | 33139.7 | 32311.3 | 31846.4 | 26030.0 |
| 67.5° | 10856.1 | 10668.2 | 12134.7 | 15233.3 | 21064.4 | 30471.4 | 37516.9 | 34593.9 | 32984.0 | 29751.9 | 23052.7 |
| 70° | 5633.4 | 5445.3 | 6632.4 | 8895.1 | 13853.3 | 23782.2 | 35372.7 | 33842.0 | 31497.7 | 24939.6 | 18059.9 |
| 72.5° | 2408.6 | 2376.5 | 2858.6 | 3902.2 | 6701.6 | 13717.4 | 27736.3 | 29291.8 | 27026.6 | 18581.6 | 12416.6 |
| 75° | 1619.7 | 1609.9 | 1790.4 | 2126.6 | 3014.5 | 5566.5 | 17357.5 | 20792.3 | 19773.5 | 11521.4 | 6983.6 |
| 77.5° | 1271.1 | 1258.7 | 1365.1 | 1528.2 | 1953.6 | 2195.9 | 7703.1 | 11162.8 | 10331.9 | 5015.1 | 3056.6 |
| 80° | 994.2 | 984.3 | 1050.9 | 1139.9 | 1404.6 | 1384.8 | 2534.7 | 4441.4 | 3437.4 | 1921.5 | 1486.2 |
| 82.5° | 784.0 | 784.0 | 838.3 | 840.9 | 996.6 | 944.7 | 1323.1 | 1956.1 | 1716.2 | 1120.2 | 910.1 |
| 85° | 717.1 | 717.1 | 774.0 | 628.2 | 650.5 | 595.9 | 821.1 | 1159.8 | 1088.0 | 459.9 | 395.7 |
| 87.5° | 361.1 | 351.1 | 650.5 | 556.4 | 353.7 | 316.6 | 400.6 | 561.4 | 603.4 | 254.7 | 197.8 |
| 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: GAN-AF-10-LED-U-T3-7027

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6313.4 | 6313.4 | 6313.4 | 6313.4 | 6313.4 | 6313.4 | 6313.4 | 6313.4 | 6313.4 | 6313.4 |
| 2.5° | 6283.7 | 6281.3 | 6286.2 | 6288.7 | 6308.4 | 6335.7 | 6348.1 | 6365.3 | 6375.2 | 6370.3 |
| 5° | 6209.5 | 6214.5 | 6234.2 | 6249.1 | 6283.7 | 6328.2 | 6353.0 | 6372.8 | 6390.1 | 6382.6 |
| 7.5° | 6147.7 | 6160.0 | 6189.7 | 6202.1 | 6221.9 | 6234.2 | 6231.8 | 6239.2 | 6254.0 | 6236.8 |
| 10° | 6113.1 | 6127.9 | 6150.2 | 6132.9 | 6085.8 | 6019.2 | 5957.3 | 5925.1 | 5935.0 | 5922.6 |
| 12.5° | 6078.6 | 6098.2 | 6080.9 | 5999.3 | 5868.3 | 5781.8 | 5734.7 | 5739.7 | 5761.9 | 5766.8 |
| 15° | 6058.7 | 6066.2 | 5992.0 | 5838.7 | 5705.0 | 5692.6 | 5717.4 | 5712.5 | 5714.9 | 5714.9 |
| 17.5° | 6058.7 | 6038.9 | 5900.3 | 5747.0 | 5690.3 | 5667.9 | 5591.3 | 5494.8 | 5452.8 | 5438.0 |
| 20° | 6090.9 | 6038.9 | 5870.8 | 5769.4 | 5645.7 | 5455.2 | 5252.5 | 5074.4 | 4995.4 | 4973.0 |
| 22.5° | 6187.3 | 6098.2 | 5954.9 | 5779.2 | 5428.1 | 5109.1 | 4787.5 | 4574.9 | 4431.5 | 4406.7 |
| 25° | 6382.6 | 6283.7 | 6120.5 | 5648.2 | 5081.9 | 4626.9 | 4260.9 | 4023.5 | 3880.0 | 3860.2 |
| 27.5° | 6724.0 | 6659.7 | 6209.5 | 5358.8 | 4621.9 | 4134.8 | 3796.0 | 3613.0 | 3506.7 | 3499.2 |
| 30° | 7238.3 | 7206.2 | 6165.0 | 4931.1 | 4055.6 | 3657.4 | 3494.2 | 3387.9 | 3308.7 | 3306.3 |
| 32.5° | 8059.2 | 7799.7 | 6019.2 | 4409.2 | 3538.8 | 3318.7 | 3252.0 | 3187.6 | 3125.8 | 3125.8 |
| 35° | 9115.2 | 8279.4 | 5742.1 | 3850.3 | 3224.6 | 3130.8 | 3046.6 | 2945.3 | 2863.6 | 2858.6 |
| 37.5° | 10356.6 | 8576.1 | 5245.2 | 3400.3 | 3076.3 | 3004.7 | 2881.0 | 2730.0 | 2586.7 | 2562.0 |
| 40° | 11610.5 | 8665.1 | 4545.2 | 3123.2 | 2982.4 | 2878.4 | 2727.7 | 2549.6 | 2411.1 | 2403.7 |
| 42.5° | 12760.3 | 8494.6 | 3803.3 | 2932.8 | 2888.4 | 2749.9 | 2591.6 | 2433.4 | 2324.5 | 2322.1 |
| 45° | 13724.8 | 8051.9 | 3180.2 | 2752.3 | 2789.4 | 2633.7 | 2492.6 | 2364.1 | 2280.1 | 2262.7 |
| 47.5° | 14632.3 | 7426.2 | 2742.4 | 2562.0 | 2690.6 | 2569.4 | 2450.7 | 2329.6 | 2247.9 | 2235.5 |
| 50° | 15685.8 | 6751.1 | 2435.8 | 2376.5 | 2603.9 | 2547.1 | 2485.3 | 2359.2 | 2223.1 | 2208.4 |
| 52.5° | 16961.8 | 6167.6 | 2195.9 | 2213.2 | 2537.3 | 2576.8 | 2574.4 | 2443.3 | 2205.9 | 2186.0 |
| 55° | 18386.2 | 5519.5 | 2015.4 | 2079.8 | 2510.0 | 2631.1 | 2596.6 | 2522.4 | 2220.7 | 2191.1 |
| 57.5° | 19788.5 | 4762.9 | 1889.3 | 1978.3 | 2470.5 | 2626.3 | 2490.2 | 2383.9 | 2255.4 | 2213.2 |
| 60° | 20839.4 | 3746.6 | 1792.8 | 1889.3 | 2383.9 | 2544.7 | 2374.0 | 2233.0 | 2247.9 | 2215.8 |
| 62.5° | 20908.6 | 2895.7 | 1676.6 | 1812.7 | 2252.8 | 2463.1 | 2297.3 | 2166.4 | 2280.1 | 2250.3 |
| 65° | 19679.6 | 2188.5 | 1565.3 | 1721.2 | 2111.8 | 2411.1 | 2223.1 | 2129.3 | 2346.8 | 2314.7 |
| 67.5° | 16568.7 | 1760.7 | 1471.5 | 1627.2 | 1970.9 | 2302.3 | 2156.4 | 2094.6 | 2406.2 | 2349.2 |
| 70° | 11961.7 | 1501.1 | 1379.8 | 1513.5 | 1844.8 | 2178.7 | 2097.1 | 2032.8 | 2245.5 | 2156.4 |
| 72.5° | 7364.3 | 1300.7 | 1276.0 | 1362.5 | 1748.5 | 2050.0 | 2008.0 | 1916.5 | 2022.9 | 1951.2 |
| 75° | 3677.2 | 1127.6 | 1159.8 | 1214.1 | 1612.4 | 1904.1 | 1859.6 | 1768.1 | 1783.0 | 1768.1 |
| 77.5° | 1760.7 | 964.4 | 1023.8 | 1065.7 | 1436.7 | 1738.5 | 1691.5 | 1597.5 | 1580.2 | 1582.6 |
| 80° | 1115.2 | 806.1 | 863.0 | 892.7 | 1283.5 | 1545.5 | 1498.6 | 1404.6 | 1602.4 | 1486.2 |
| 82.5° | 697.4 | 655.4 | 670.1 | 724.6 | 1117.9 | 1345.3 | 1283.5 | 1199.3 | 1444.1 | 1142.6 |
| 85° | 385.8 | 457.4 | 477.3 | 524.3 | 860.5 | 1125.1 | 1063.4 | 957.1 | 858.2 | 843.2 |
| 87.5° | 230.0 | 272.0 | 279.5 | 314.0 | 578.7 | 813.5 | 719.6 | 682.5 | 566.3 | 563.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)