

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: P382625

Luminaire Tested: **GAN-SA0A-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42669.5 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

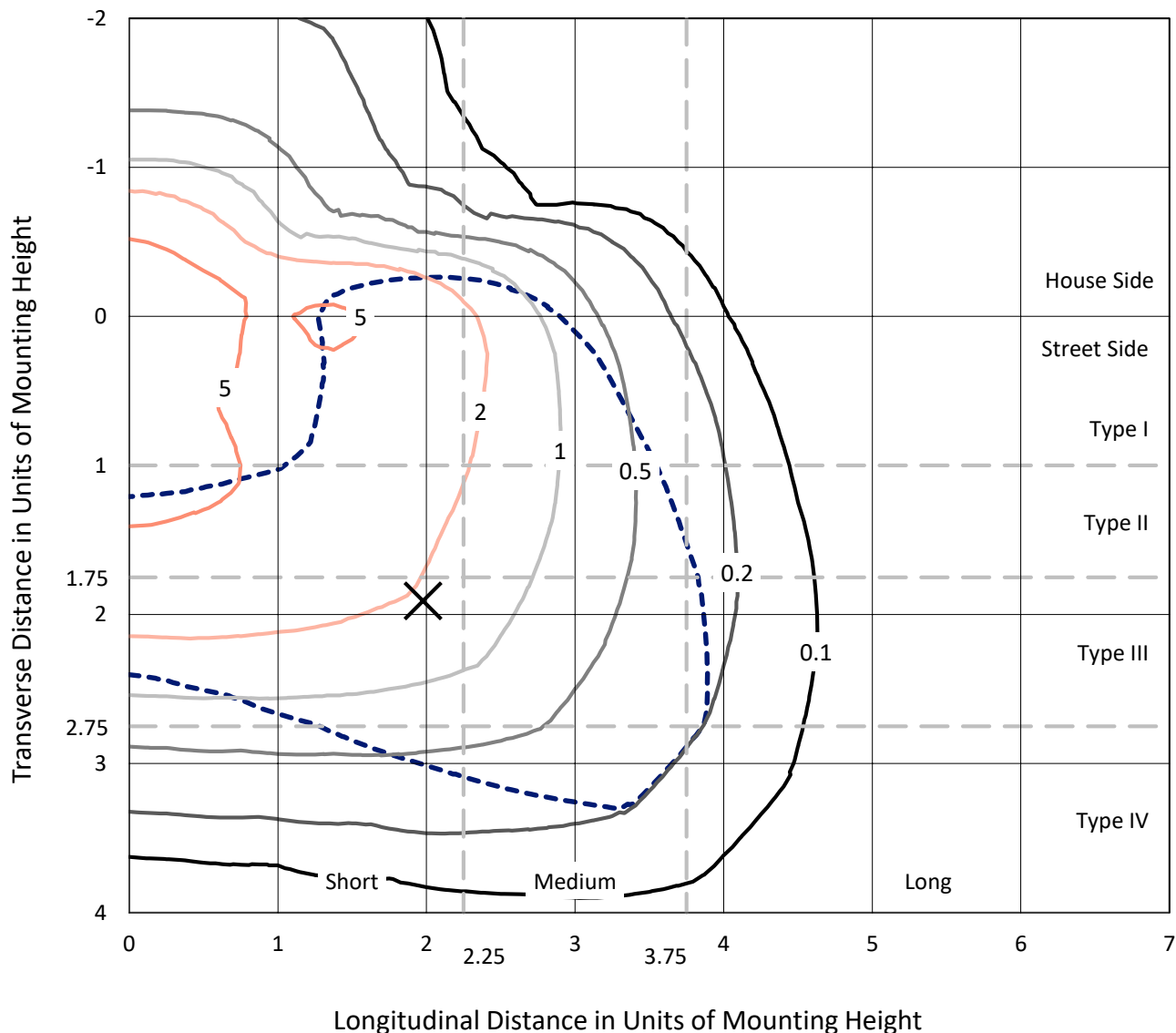
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

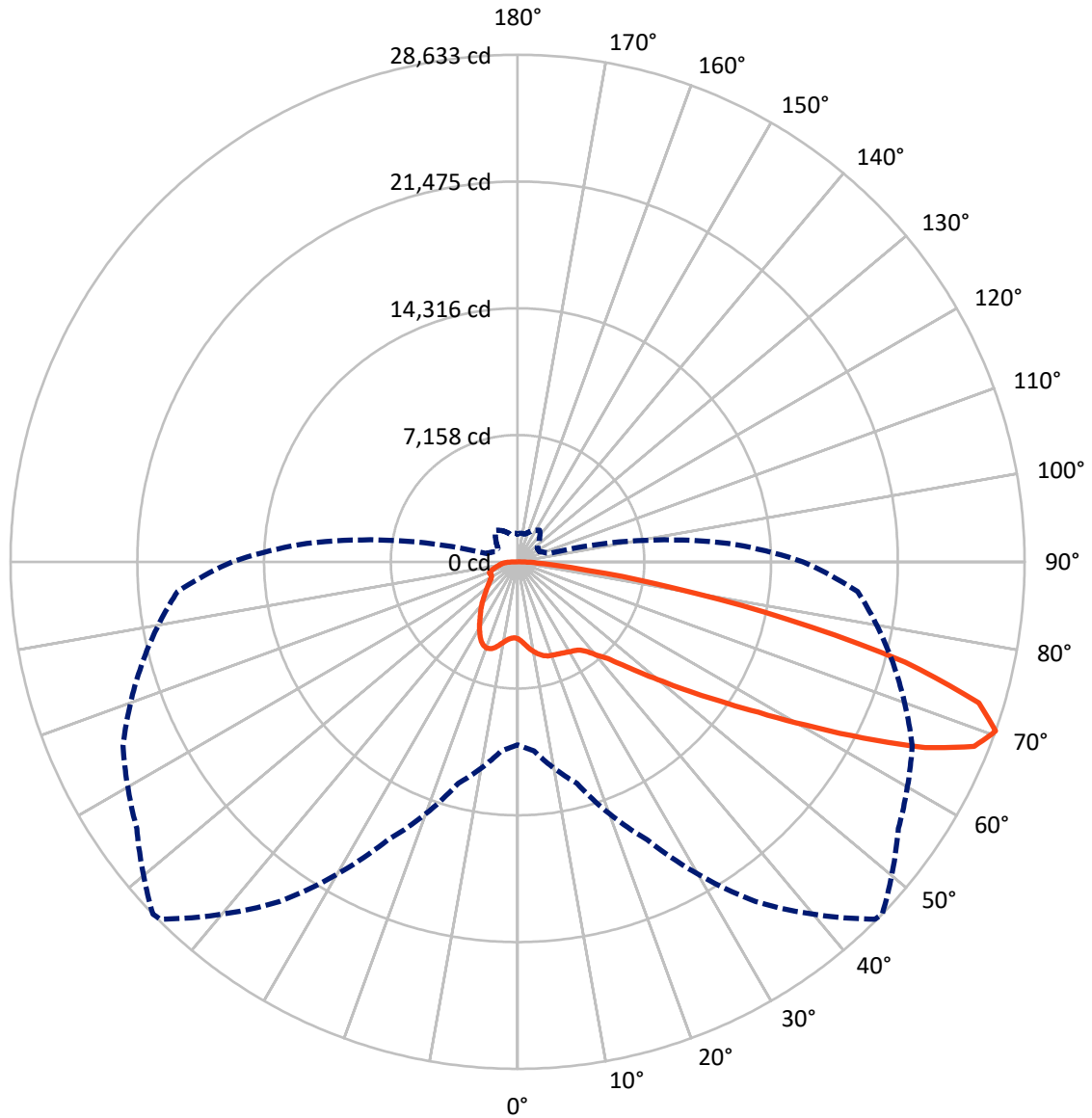
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9779.7 | 0.0 | 9779.7 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 32889.8 | 0.0 | 32889.8 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 42669.5 | 0.0 | 42669.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 443.2 | 1.0 |
| 10°-20° | 1476.5 | 3.5 |
| 20°-30° | 2461.9 | 5.8 |
| 30°-40° | 3493.6 | 8.2 |
| 40°-50° | 5138.8 | 12.0 |
| 50°-60° | 8702.6 | 20.4 |
| 60°-70° | 12353.2 | 29.0 |
| 70°-80° | 7504.7 | 17.6 |
| 80°-90° | 1095.2 | 2.6 |
| 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° | 42669.5 | 100.0 |
| 0°-180° | 42669.5 | 100.0 |

Coefficient of Utilization

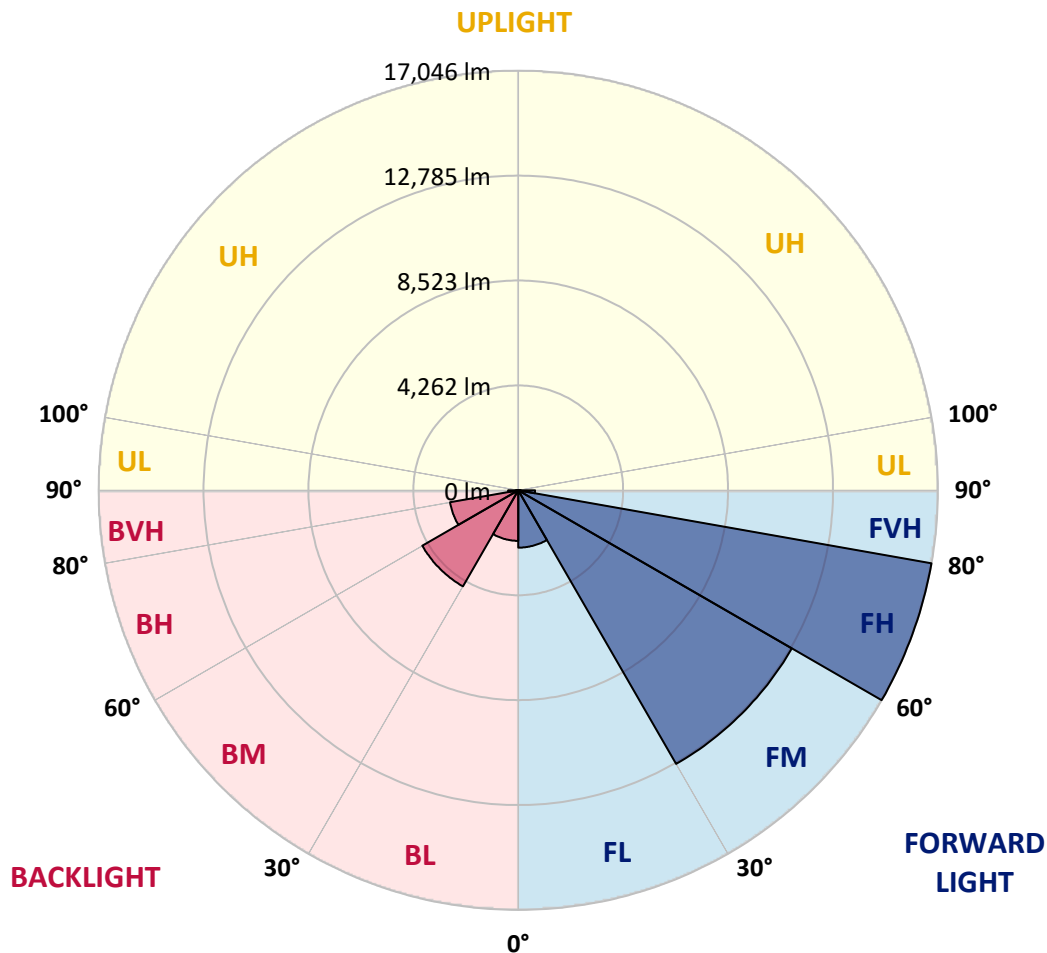


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2328.2 | 5.5 | | | |
| FM (30°-60°) | 12833.1 | 30.1 | | | |
| FH (60°-80°) | 17046.2 | 39.9 | | | G5 |
| FVH (80°-90°) | 682.2 | 1.6 | | | G4/750 |
| BL (0°-30°) | 2053.3 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 4501.9 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 2811.6 | 6.6 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 413.0 | 1.0 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4347.2 | 4347.2 | 4347.2 | 4347.2 | 4347.2 | 4347.2 | 4347.2 | 4347.2 | 4347.2 | 4347.2 | 4347.2 |
| 2.5° | 4564.8 | 4567.7 | 4573.5 | 4558.9 | 4518.0 | 4506.4 | 4502.0 | 4459.6 | 4431.9 | 4391.0 | 4355.9 |
| 5° | 4929.8 | 4932.7 | 4924.0 | 4883.1 | 4792.5 | 4725.4 | 4719.6 | 4623.2 | 4535.5 | 4442.1 | 4372.0 |
| 7.5° | 5310.9 | 5315.3 | 5287.6 | 5210.2 | 5083.2 | 4966.4 | 4959.0 | 4827.7 | 4694.7 | 4553.1 | 4448.0 |
| 10° | 5648.3 | 5630.7 | 5585.5 | 5477.4 | 5327.1 | 5183.9 | 5178.1 | 5040.8 | 4887.5 | 4716.6 | 4576.4 |
| 12.5° | 5873.1 | 5858.6 | 5800.2 | 5668.7 | 5503.7 | 5372.3 | 5360.6 | 5233.5 | 5084.7 | 4897.7 | 4729.7 |
| 15° | 5997.3 | 6007.6 | 5928.6 | 5779.7 | 5619.1 | 5508.1 | 5497.9 | 5407.4 | 5274.4 | 5086.1 | 4893.3 |
| 17.5° | 6013.3 | 6022.1 | 5946.2 | 5798.7 | 5667.3 | 5591.3 | 5587.0 | 5527.1 | 5430.7 | 5249.6 | 5048.1 |
| 20° | 5919.9 | 5925.8 | 5863.0 | 5741.8 | 5655.6 | 5632.2 | 5630.7 | 5604.5 | 5532.9 | 5372.3 | 5176.6 |
| 22.5° | 5784.1 | 5788.5 | 5743.2 | 5655.6 | 5626.4 | 5662.9 | 5673.1 | 5662.9 | 5611.7 | 5461.4 | 5277.4 |
| 25° | 5750.5 | 5747.6 | 5700.9 | 5611.7 | 5636.6 | 5714.0 | 5727.2 | 5731.5 | 5696.5 | 5565.1 | 5405.9 |
| 27.5° | 5912.6 | 5902.4 | 5813.3 | 5670.1 | 5686.3 | 5779.7 | 5797.2 | 5839.6 | 5817.7 | 5702.3 | 5551.9 |
| 30° | 6381.3 | 6363.8 | 6181.3 | 5892.1 | 5813.3 | 5861.5 | 5883.4 | 5950.5 | 5954.9 | 5858.6 | 5746.2 |
| 32.5° | 7172.8 | 7150.9 | 6823.8 | 6306.9 | 6028.0 | 5944.7 | 5965.2 | 6066.0 | 6120.0 | 6045.5 | 5924.3 |
| 35° | 8173.0 | 8148.2 | 7718.9 | 7012.1 | 6387.2 | 6103.9 | 6118.5 | 6198.8 | 6306.9 | 6201.7 | 6041.1 |
| 37.5° | 9215.7 | 9155.8 | 8742.6 | 7841.6 | 6958.1 | 6444.2 | 6444.2 | 6454.3 | 6505.5 | 6286.5 | 6178.4 |
| 40° | 10252.5 | 10192.6 | 9818.8 | 8817.0 | 7697.0 | 6980.0 | 6946.5 | 6720.1 | 6679.2 | 6490.8 | 6454.3 |
| 42.5° | 11216.2 | 11198.7 | 10978.2 | 9919.6 | 8564.5 | 7507.2 | 7460.5 | 7076.4 | 7085.2 | 6968.3 | 6969.8 |
| 45° | 12241.4 | 12241.4 | 12061.8 | 11032.2 | 9574.9 | 8354.1 | 8307.4 | 7742.3 | 7829.9 | 7775.9 | 7905.9 |
| 47.5° | 13078.1 | 13104.4 | 13079.6 | 12191.7 | 10750.4 | 9430.3 | 9345.7 | 8665.2 | 8910.5 | 9095.9 | 9474.1 |
| 50° | 13932.3 | 13973.2 | 13977.6 | 13463.6 | 12171.2 | 10709.5 | 10613.1 | 9890.3 | 10437.9 | 10969.4 | 11712.7 |
| 52.5° | 15172.1 | 15264.1 | 14897.6 | 14732.5 | 13911.9 | 12228.2 | 12133.3 | 11466.0 | 12380.1 | 13126.3 | 14406.9 |
| 55° | 16321.3 | 16241.0 | 15979.6 | 16081.9 | 15775.2 | 13957.2 | 13885.6 | 13300.1 | 14544.2 | 15513.8 | 17177.0 |
| 57.5° | 16943.4 | 16937.6 | 17200.4 | 17638.5 | 17784.5 | 16089.1 | 16029.2 | 15459.8 | 16984.3 | 17712.9 | 19777.8 |
| 60° | 17673.5 | 17683.8 | 18335.0 | 19329.4 | 19931.1 | 18743.9 | 18717.6 | 18285.3 | 19354.3 | 19766.0 | 21817.7 |
| 62.5° | 17775.7 | 17959.7 | 19081.2 | 20792.6 | 21940.4 | 21845.4 | 21903.9 | 20830.6 | 21474.6 | 21404.4 | 23340.8 |
| 65° | 16600.2 | 16842.7 | 18872.4 | 21235.1 | 23938.0 | 25237.7 | 25291.7 | 23390.4 | 23146.5 | 22804.8 | 23885.4 |
| 67.5° | 14190.8 | 14550.0 | 16755.0 | 20272.8 | 24596.6 | 27744.9 | 27820.9 | 25374.9 | 24533.8 | 23279.5 | 22574.1 |
| 70° | 10327.0 | 10725.6 | 12945.2 | 17314.3 | 23422.6 | 28546.6 | 28632.8 | 26252.5 | 24586.3 | 21928.7 | 19271.0 |
| 72.5° | 6238.2 | 6550.7 | 8380.4 | 12746.6 | 19769.0 | 27086.3 | 27239.7 | 25139.9 | 22447.1 | 18574.5 | 14230.2 |
| 75° | 2739.4 | 2943.9 | 4052.2 | 7345.1 | 14152.8 | 22410.6 | 22601.9 | 21518.4 | 18238.7 | 13498.6 | 8411.1 |
| 77.5° | 1166.8 | 1225.2 | 1661.8 | 3190.6 | 8000.8 | 15313.7 | 15576.6 | 15722.6 | 12374.2 | 7345.1 | 3554.2 |
| 80° | 727.2 | 750.5 | 940.4 | 1444.2 | 3744.1 | 8600.9 | 8884.2 | 9250.7 | 6144.8 | 2700.0 | 1241.2 |
| 82.5° | 442.5 | 468.8 | 625.0 | 873.2 | 1949.4 | 3898.9 | 4034.7 | 4293.1 | 2384.6 | 1166.8 | 642.5 |
| 85° | 265.8 | 284.8 | 382.6 | 551.9 | 1109.8 | 1533.2 | 1531.8 | 1693.9 | 1123.0 | 750.5 | 338.8 |
| 87.5° | 127.1 | 141.7 | 204.5 | 286.2 | 559.3 | 575.3 | 538.8 | 610.3 | 682.0 | 492.1 | 170.8 |
| 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-SAOA-735-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4347.2 | 4347.2 | 4347.2 | 4347.2 | 4347.2 | 4347.2 | 4347.2 | 4347.2 | 4347.2 | 4347.2 | 4347.2 |
| 2.5° | 4344.3 | 4338.4 | 4319.4 | 4304.9 | 4301.9 | 4293.1 | 4285.9 | 4290.2 | 4296.1 | 4297.5 | 4297.5 |
| 5° | 4342.8 | 4326.8 | 4301.9 | 4291.7 | 4304.9 | 4322.4 | 4344.3 | 4373.4 | 4391.0 | 4404.2 | 4412.9 |
| 7.5° | 4412.9 | 4382.3 | 4354.5 | 4348.7 | 4374.9 | 4421.7 | 4471.3 | 4532.6 | 4575.0 | 4604.2 | 4610.0 |
| 10° | 4529.7 | 4491.7 | 4464.0 | 4469.8 | 4516.6 | 4583.8 | 4653.8 | 4732.7 | 4796.9 | 4836.4 | 4839.3 |
| 12.5° | 4664.1 | 4627.6 | 4601.3 | 4626.1 | 4703.5 | 4785.3 | 4858.3 | 4927.0 | 4985.4 | 5024.8 | 5024.8 |
| 15° | 4818.9 | 4792.5 | 4761.9 | 4818.9 | 4924.0 | 4997.0 | 5027.7 | 5061.3 | 5093.4 | 5122.6 | 5116.7 |
| 17.5° | 4967.8 | 4943.0 | 4927.0 | 4994.1 | 5103.6 | 5137.2 | 5116.7 | 5091.9 | 5091.9 | 5108.0 | 5110.9 |
| 20° | 5096.3 | 5074.4 | 5084.7 | 5150.3 | 5207.3 | 5172.2 | 5096.3 | 5017.4 | 4985.4 | 4994.1 | 5002.9 |
| 22.5° | 5208.7 | 5198.5 | 5229.1 | 5259.9 | 5219.0 | 5096.3 | 4956.1 | 4849.5 | 4810.1 | 4807.2 | 4810.1 |
| 25° | 5340.2 | 5338.7 | 5376.7 | 5321.2 | 5140.1 | 4913.7 | 4725.4 | 4621.7 | 4599.8 | 4617.3 | 4646.6 |
| 27.5° | 5503.7 | 5519.8 | 5538.8 | 5335.8 | 4979.5 | 4637.8 | 4446.5 | 4374.9 | 4396.8 | 4439.2 | 4467.0 |
| 30° | 5712.5 | 5756.3 | 5715.4 | 5299.3 | 4748.8 | 4322.4 | 4139.8 | 4119.4 | 4179.3 | 4239.1 | 4268.4 |
| 32.5° | 5915.5 | 5984.2 | 5884.9 | 5204.4 | 4450.8 | 3988.0 | 3846.4 | 3840.5 | 3913.5 | 3971.9 | 4012.8 |
| 35° | 6079.1 | 6214.8 | 6011.9 | 5016.0 | 4106.3 | 3679.9 | 3576.2 | 3536.7 | 3563.1 | 3631.6 | 3678.4 |
| 37.5° | 6292.2 | 6518.6 | 6099.5 | 4728.3 | 3732.4 | 3425.8 | 3304.6 | 3214.0 | 3190.6 | 3218.4 | 3241.8 |
| 40° | 6682.2 | 6981.5 | 6140.4 | 4326.8 | 3367.4 | 3171.6 | 3049.0 | 2916.1 | 2824.2 | 2757.0 | 2758.4 |
| 42.5° | 7318.8 | 7584.6 | 6114.1 | 3839.0 | 3030.0 | 2923.5 | 2784.7 | 2631.3 | 2482.5 | 2330.5 | 2318.9 |
| 45° | 8352.7 | 8481.2 | 6035.2 | 3322.1 | 2733.6 | 2663.5 | 2533.5 | 2380.2 | 2181.6 | 2009.3 | 1993.2 |
| 47.5° | 10007.2 | 9722.4 | 5912.6 | 2870.8 | 2472.2 | 2443.0 | 2323.3 | 2146.6 | 1936.3 | 1797.6 | 1785.9 |
| 50° | 12263.3 | 11514.1 | 5852.7 | 2511.6 | 2241.5 | 2250.2 | 2152.4 | 1965.5 | 1767.0 | 1664.7 | 1653.0 |
| 52.5° | 14961.8 | 13600.9 | 5968.1 | 2234.2 | 2056.0 | 2086.7 | 2013.7 | 1838.5 | 1672.0 | 1591.6 | 1580.0 |
| 55° | 17761.2 | 15762.1 | 6092.2 | 2032.6 | 1880.8 | 1940.7 | 1915.8 | 1771.3 | 1620.9 | 1546.4 | 1536.2 |
| 57.5° | 20157.4 | 17375.6 | 5844.0 | 1869.2 | 1724.6 | 1818.0 | 1839.9 | 1729.0 | 1594.6 | 1527.5 | 1515.7 |
| 60° | 21665.8 | 18025.4 | 5192.7 | 1715.8 | 1600.4 | 1720.2 | 1796.1 | 1717.3 | 1604.9 | 1599.0 | 1590.2 |
| 62.5° | 22381.4 | 17968.5 | 4215.8 | 1594.6 | 1523.1 | 1677.8 | 1828.3 | 1783.0 | 1721.7 | 1774.2 | 1778.6 |
| 65° | 22060.2 | 17109.8 | 3139.6 | 1514.3 | 1467.6 | 1693.9 | 1924.6 | 1907.1 | 1755.2 | 1807.8 | 1815.1 |
| 67.5° | 19945.6 | 15061.1 | 2324.8 | 1444.2 | 1406.3 | 1739.2 | 2099.9 | 1948.0 | 1689.5 | 1727.5 | 1704.1 |
| 70° | 16121.3 | 11940.6 | 1793.2 | 1365.4 | 1343.5 | 1733.3 | 2178.7 | 1923.2 | 1618.0 | 1626.8 | 1564.0 |
| 72.5° | 11117.0 | 8142.4 | 1458.8 | 1292.3 | 1252.9 | 1580.0 | 2123.2 | 1861.8 | 1558.1 | 1490.9 | 1407.7 |
| 75° | 6045.5 | 4370.5 | 1239.8 | 1216.4 | 1093.7 | 1387.3 | 2021.0 | 1818.0 | 1504.1 | 1415.0 | 1368.3 |
| 77.5° | 2378.8 | 1813.6 | 1076.2 | 1112.7 | 956.5 | 1225.2 | 1907.1 | 1734.8 | 1429.6 | 1312.7 | 1289.4 |
| 80° | 971.0 | 925.8 | 892.2 | 962.3 | 822.1 | 1071.8 | 1769.8 | 1636.9 | 1340.5 | 1217.8 | 1171.1 |
| 82.5° | 550.5 | 575.3 | 693.6 | 759.3 | 667.4 | 987.2 | 1704.1 | 1558.1 | 1233.9 | 1090.8 | 1035.3 |
| 85° | 281.8 | 337.3 | 483.4 | 544.7 | 490.6 | 839.6 | 1569.8 | 1363.9 | 990.0 | 835.2 | 839.6 |
| 87.5° | 135.8 | 188.4 | 305.2 | 341.7 | 318.3 | 607.5 | 1172.6 | 988.6 | 771.0 | 610.3 | 591.4 |
| 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)