

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: P383715

Luminaire Tested: **GAN-SA9D-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65006.2 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

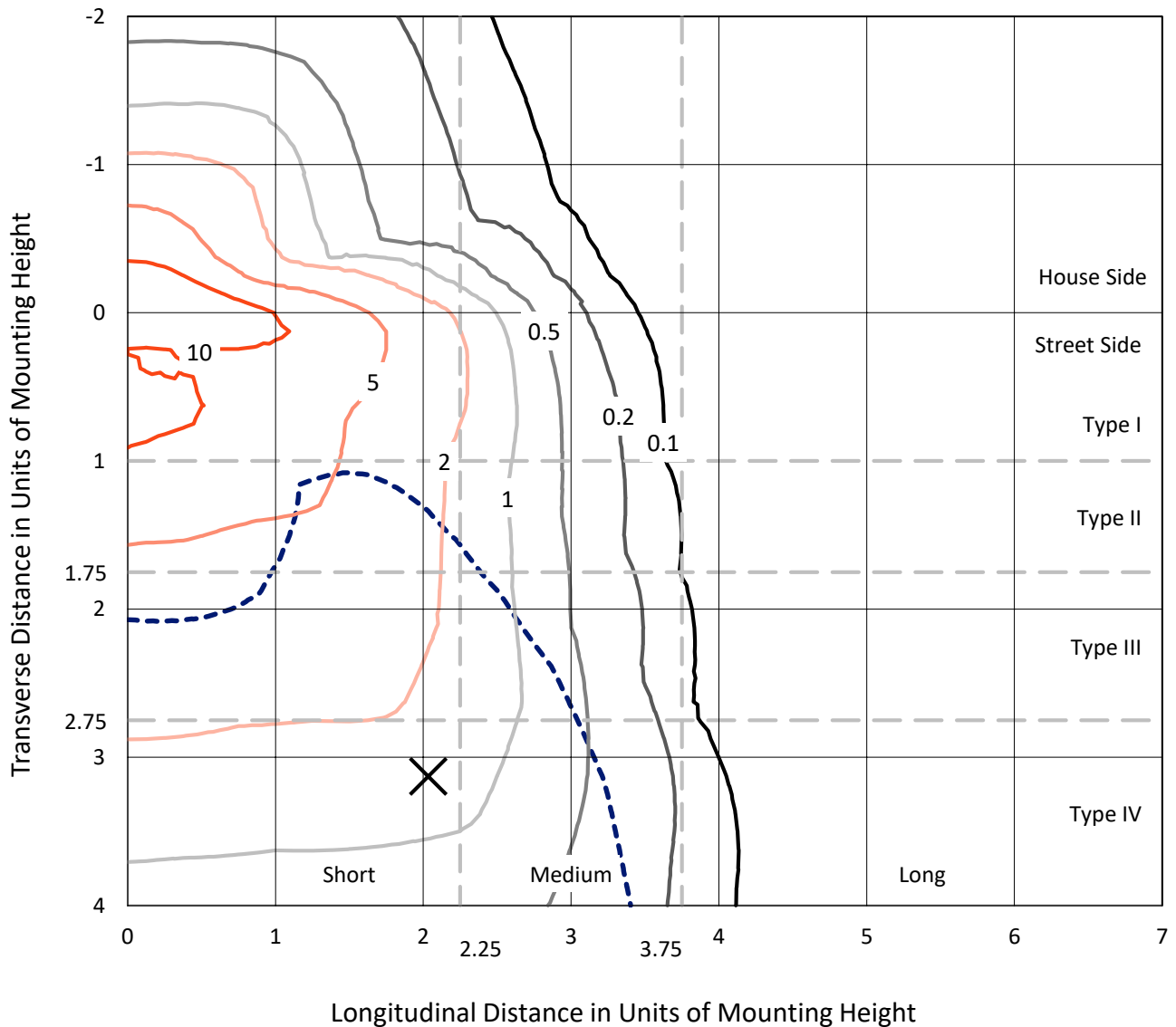
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

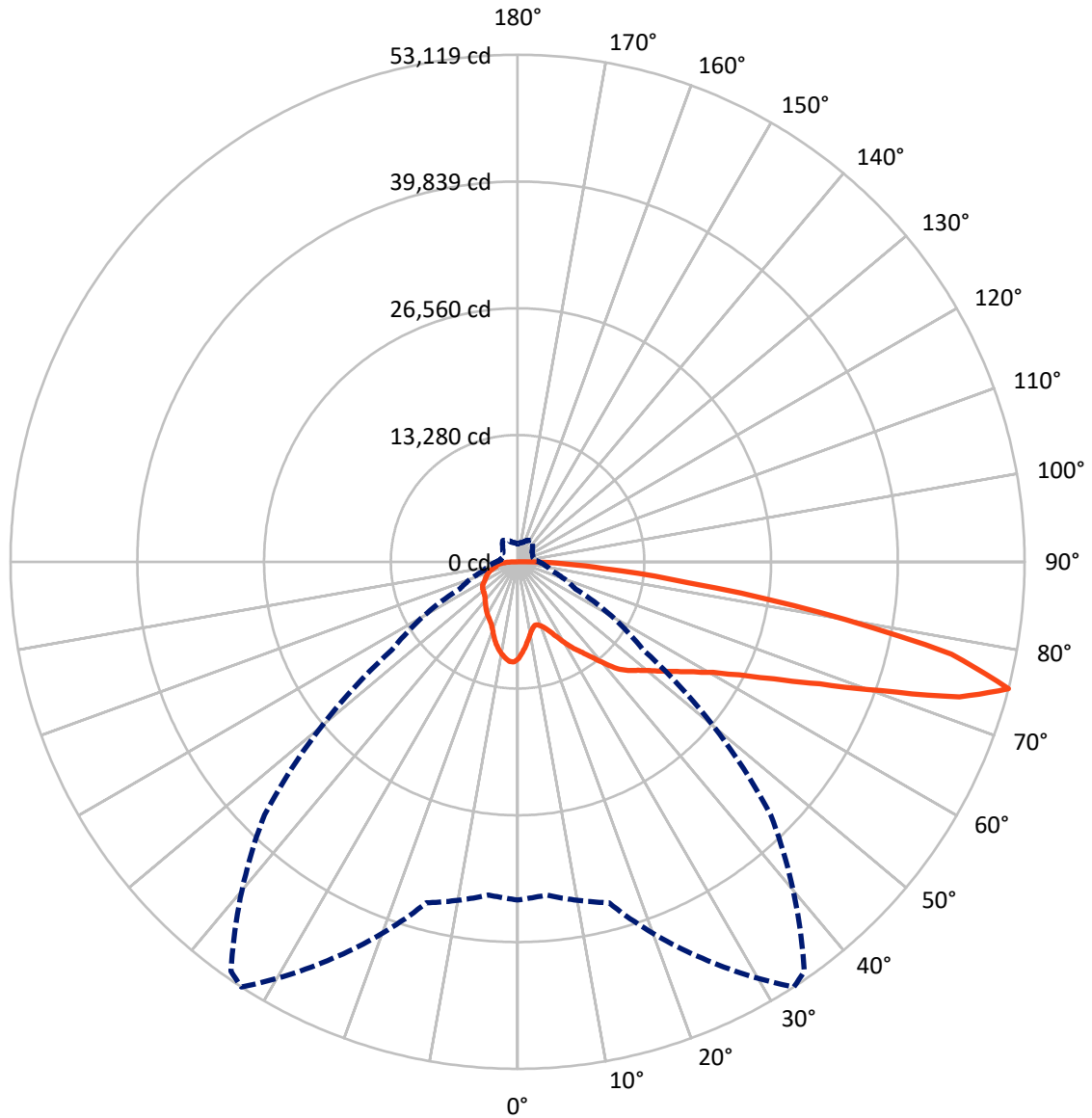
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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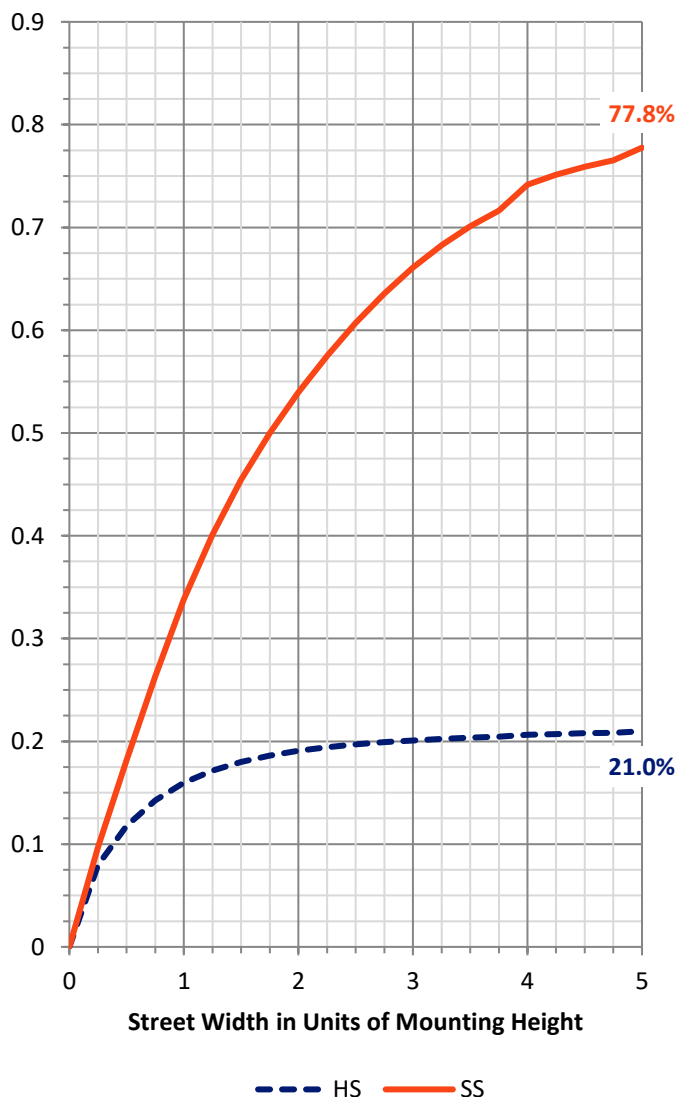
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13958.5 | 0.0 | 13958.5 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 51047.7 | 0.0 | 51047.7 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 65006.2 | 0.0 | 65006.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 918.9 | 1.4 |
| 10°-20° | 2488.8 | 3.8 |
| 20°-30° | 4064.6 | 6.3 |
| 30°-40° | 6053.2 | 9.3 |
| 40°-50° | 8681.9 | 13.4 |
| 50°-60° | 11918.9 | 18.3 |
| 60°-70° | 14921.9 | 23.0 |
| 70°-80° | 13499.1 | 20.8 |
| 80°-90° | 2458.9 | 3.8 |
| 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° | 65006.2 | 100.0 |
| 0°-180° | 65006.2 | 100.0 |

Coefficient of Utilization

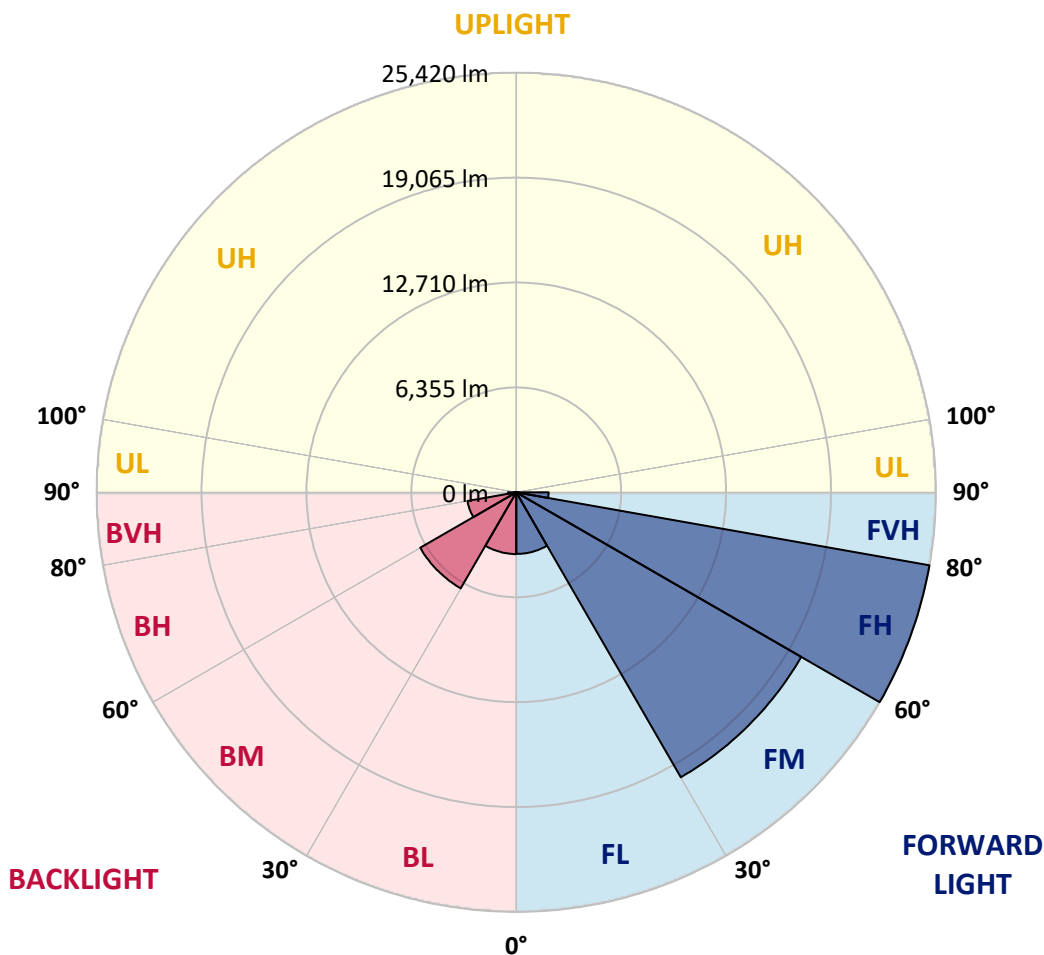


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3733.6 | 5.7 | | | |
| FM (30°-60°) | 19936.0 | 30.7 | | | |
| FH (60°-80°) | 25419.7 | 39.1 | | | G5 |
| FVH (80°-90°) | 1958.3 | 3.0 | | | G5 |
| BL (0°-30°) | 3738.7 | 5.8 | B4/5000 | | |
| BM (30°-60°) | 6717.8 | 10.3 | B4/8500 | | |
| BH (60°-80°) | 3001.3 | 4.6 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 500.6 | 0.8 | | | G4/750 |
| 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° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10160.9 | 10160.9 | 10160.9 | 10160.9 | 10160.9 | 10160.9 | 10160.9 | 10160.9 | 10160.9 | 10160.9 | 10160.9 |
| 2.5° | 9435.6 | 9399.6 | 9466.9 | 9476.0 | 9534.3 | 9556.8 | 9637.6 | 9763.4 | 9866.7 | 9985.7 | 10093.5 |
| 5° | 8580.0 | 8555.3 | 8649.6 | 8717.0 | 8845.0 | 8898.9 | 9089.8 | 9356.9 | 9594.9 | 9864.4 | 10109.2 |
| 7.5° | 7767.2 | 7753.6 | 7859.2 | 8011.9 | 8160.1 | 8234.2 | 8564.3 | 8952.7 | 9350.2 | 9785.8 | 10160.9 |
| 10° | 7082.3 | 7077.8 | 7178.8 | 7329.2 | 7547.1 | 7630.2 | 8056.8 | 8568.7 | 9125.6 | 9725.2 | 10248.4 |
| 12.5° | 6698.3 | 6714.0 | 6761.2 | 6886.9 | 7089.0 | 7172.1 | 7645.9 | 8247.6 | 8937.1 | 9705.0 | 10376.4 |
| 15° | 6792.6 | 6817.3 | 6736.5 | 6732.0 | 6875.7 | 6940.8 | 7385.4 | 8018.7 | 8802.3 | 9738.7 | 10562.8 |
| 17.5° | 7194.5 | 7199.0 | 6985.7 | 6851.0 | 6938.5 | 6972.3 | 7304.5 | 7888.4 | 8723.8 | 9815.1 | 10796.3 |
| 20° | 7760.4 | 7749.2 | 7371.9 | 7147.4 | 7194.5 | 7203.6 | 7419.1 | 7890.7 | 8717.0 | 9947.5 | 11099.5 |
| 22.5° | 8510.4 | 8427.3 | 7919.8 | 7614.5 | 7603.2 | 7589.8 | 7713.2 | 8056.8 | 8815.8 | 10163.1 | 11460.9 |
| 25° | 9489.4 | 9410.9 | 8712.5 | 8294.9 | 8205.0 | 8171.3 | 8189.3 | 8411.6 | 9011.1 | 10394.4 | 11865.1 |
| 27.5° | 10578.5 | 10441.5 | 9767.8 | 9177.3 | 8990.9 | 8943.8 | 8836.0 | 8912.3 | 9224.5 | 10616.7 | 12345.7 |
| 30° | 11490.2 | 11416.0 | 10827.8 | 10127.1 | 9907.1 | 9839.8 | 9556.8 | 9473.7 | 9532.1 | 10919.8 | 12952.0 |
| 32.5° | 11999.9 | 11950.5 | 11593.5 | 11027.6 | 10823.3 | 10728.9 | 10329.3 | 10163.1 | 10026.1 | 11398.1 | 13773.9 |
| 35° | 12617.4 | 12586.0 | 12370.4 | 11959.5 | 11656.4 | 11557.5 | 11247.7 | 11074.7 | 10722.2 | 12056.0 | 14835.9 |
| 37.5° | 13403.3 | 13369.7 | 13374.1 | 13041.8 | 12680.2 | 12588.2 | 12383.9 | 12202.0 | 11624.9 | 12920.6 | 15990.1 |
| 40° | 14292.5 | 14227.4 | 14202.7 | 14187.0 | 13957.9 | 13906.3 | 13798.5 | 13551.5 | 12756.6 | 13953.5 | 17128.6 |
| 42.5° | 15630.8 | 15399.6 | 14905.5 | 15091.9 | 15318.7 | 15291.7 | 15379.4 | 15024.6 | 14014.1 | 15175.0 | 18240.1 |
| 45° | 16922.0 | 16542.5 | 15689.2 | 15729.6 | 16225.9 | 16376.3 | 17032.0 | 16780.5 | 15377.1 | 16513.4 | 19389.8 |
| 47.5° | 17510.3 | 17222.9 | 16497.6 | 16499.9 | 16991.6 | 17303.7 | 18740.9 | 18561.2 | 16809.7 | 18033.6 | 20793.3 |
| 50° | 18168.3 | 17880.8 | 17229.6 | 17474.3 | 17903.2 | 18235.6 | 20391.3 | 20299.2 | 18172.7 | 19697.4 | 22475.1 |
| 52.5° | 18886.8 | 18399.6 | 17986.3 | 18424.2 | 19026.0 | 19412.2 | 22044.0 | 21792.4 | 19423.5 | 21372.6 | 24408.4 |
| 55° | 18895.8 | 18763.3 | 19077.6 | 19398.7 | 20299.2 | 20773.0 | 23775.2 | 23110.6 | 20442.9 | 23018.4 | 25982.5 |
| 57.5° | 19971.4 | 19755.8 | 20422.7 | 20570.9 | 21747.5 | 22282.0 | 25497.5 | 24258.0 | 21480.4 | 24280.4 | 26831.4 |
| 60° | 21395.0 | 21210.9 | 21756.6 | 22147.3 | 23539.5 | 24253.5 | 27336.5 | 25436.8 | 22295.5 | 25232.6 | 26790.9 |
| 62.5° | 23853.9 | 23645.0 | 23638.2 | 24186.1 | 26061.2 | 26891.9 | 29400.2 | 26593.4 | 22618.8 | 25421.2 | 25647.9 |
| 65° | 27453.4 | 27121.0 | 26494.5 | 26755.0 | 29543.8 | 30372.5 | 31706.2 | 27430.9 | 22192.2 | 24410.7 | 22704.1 |
| 67.5° | 30956.3 | 30945.1 | 30174.9 | 30709.3 | 34142.6 | 34807.3 | 34333.5 | 27514.0 | 20860.6 | 20892.0 | 17481.1 |
| 70° | 34448.1 | 34493.0 | 34362.7 | 36221.9 | 40355.9 | 41047.5 | 37131.4 | 26397.9 | 17867.4 | 15087.4 | 10472.9 |
| 72.5° | 37214.5 | 37203.2 | 37858.9 | 42653.0 | 48419.4 | 48264.5 | 39489.1 | 23016.2 | 12828.4 | 8144.4 | 5005.2 |
| 75° | 35422.6 | 35031.9 | 36985.4 | 45837.2 | 53119.3 | 52362.6 | 37483.9 | 16055.2 | 6657.9 | 3707.3 | 2694.6 |
| 77.5° | 23103.8 | 23474.3 | 26341.8 | 37865.6 | 46463.6 | 45543.0 | 27500.5 | 7490.9 | 3137.0 | 2431.9 | 1953.5 |
| 80° | 8366.7 | 8757.4 | 12334.4 | 21448.9 | 32011.7 | 31861.3 | 13542.6 | 3078.6 | 2122.0 | 1836.8 | 1423.7 |
| 82.5° | 2878.8 | 3022.4 | 4865.9 | 9525.4 | 18073.9 | 18747.6 | 5095.0 | 1749.3 | 1542.6 | 1302.4 | 974.6 |
| 85° | 1129.5 | 1293.4 | 2225.3 | 4583.0 | 9116.7 | 9184.0 | 2063.6 | 1046.4 | 1073.3 | 853.3 | 534.4 |
| 87.5° | 428.9 | 520.9 | 1064.4 | 2128.7 | 4163.2 | 3824.1 | 738.8 | 498.5 | 610.8 | 507.5 | 253.8 |
| 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-SA9D-735-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10160.9 | 10160.9 | 10160.9 | 10160.9 | 10160.9 | 10160.9 | 10160.9 | 10160.9 | 10160.9 | 10160.9 | 10160.9 |
| 2.5° | 10176.5 | 10223.7 | 10322.5 | 10389.8 | 10461.7 | 10482.0 | 10490.9 | 10508.9 | 10526.9 | 10520.2 | 10522.4 |
| 5° | 10239.4 | 10331.5 | 10490.9 | 10558.3 | 10589.7 | 10553.8 | 10484.2 | 10428.0 | 10387.6 | 10365.1 | 10358.4 |
| 7.5° | 10342.7 | 10472.9 | 10643.6 | 10632.4 | 10560.5 | 10401.1 | 10221.5 | 10086.7 | 9974.5 | 9934.0 | 9911.6 |
| 10° | 10479.7 | 10632.4 | 10751.4 | 10623.4 | 10414.6 | 10138.4 | 9868.9 | 9660.1 | 9491.6 | 9426.5 | 9415.3 |
| 12.5° | 10654.9 | 10809.8 | 10832.2 | 10560.5 | 10214.7 | 9837.5 | 9471.5 | 9195.3 | 8943.8 | 8862.9 | 8845.0 |
| 15° | 10881.6 | 11027.6 | 10888.4 | 10450.5 | 9967.7 | 9460.2 | 8986.5 | 8611.4 | 8346.5 | 8247.6 | 8211.8 |
| 17.5° | 11119.7 | 11258.9 | 10899.6 | 10268.6 | 9644.4 | 9013.4 | 8418.3 | 8034.3 | 7731.2 | 7616.7 | 7603.2 |
| 20° | 11404.8 | 11467.7 | 10852.4 | 10008.2 | 9199.8 | 8434.0 | 7807.6 | 7446.0 | 7284.3 | 7203.6 | 7194.5 |
| 22.5° | 11757.3 | 11690.0 | 10744.7 | 9655.6 | 8636.2 | 7764.9 | 7255.2 | 7086.7 | 7046.3 | 7028.3 | 7035.1 |
| 25° | 12130.1 | 11923.5 | 10585.3 | 9195.3 | 7924.3 | 7095.8 | 6851.0 | 6898.1 | 6952.0 | 6945.3 | 6945.3 |
| 27.5° | 12541.1 | 12161.5 | 10340.5 | 8584.5 | 7136.1 | 6547.8 | 6577.0 | 6749.9 | 6830.8 | 6828.5 | 6826.3 |
| 30° | 13068.8 | 12431.0 | 10028.4 | 7850.2 | 6399.6 | 6161.6 | 6339.0 | 6550.1 | 6660.1 | 6655.6 | 6657.9 |
| 32.5° | 13717.7 | 12727.5 | 9604.0 | 7030.6 | 5867.4 | 5876.5 | 6080.8 | 6289.6 | 6417.6 | 6406.3 | 6408.6 |
| 35° | 14476.6 | 13059.7 | 9029.1 | 6222.3 | 5514.9 | 5649.6 | 5811.4 | 5957.2 | 6078.5 | 6062.8 | 6047.1 |
| 37.5° | 15303.0 | 13385.3 | 8265.6 | 5499.2 | 5227.5 | 5438.6 | 5573.3 | 5598.0 | 5654.1 | 5613.7 | 5584.5 |
| 40° | 16088.9 | 13634.6 | 7282.1 | 4906.4 | 4937.9 | 5259.0 | 5346.5 | 5247.7 | 5146.6 | 5133.2 | 5092.8 |
| 42.5° | 16773.8 | 13717.7 | 6287.4 | 4432.6 | 4632.4 | 5070.3 | 5124.2 | 4917.6 | 4735.7 | 4650.4 | 4614.5 |
| 45° | 17496.8 | 13746.8 | 5359.9 | 4035.2 | 4338.3 | 4901.9 | 4960.3 | 4684.1 | 4428.1 | 4243.9 | 4183.3 |
| 47.5° | 18442.2 | 13957.9 | 4639.2 | 3741.0 | 4113.7 | 4789.6 | 4872.7 | 4497.7 | 4165.4 | 3902.6 | 3846.5 |
| 50° | 19679.4 | 14375.6 | 4053.1 | 3516.4 | 3967.7 | 4715.5 | 4809.9 | 4315.9 | 3949.9 | 3633.2 | 3577.0 |
| 52.5° | 21053.7 | 14759.6 | 3579.3 | 3334.6 | 3826.3 | 4585.3 | 4729.0 | 4185.6 | 3747.7 | 3383.9 | 3323.3 |
| 55° | 22014.8 | 14465.4 | 3197.5 | 3145.9 | 3642.2 | 4399.0 | 4616.7 | 4075.5 | 3458.1 | 3141.5 | 3087.5 |
| 57.5° | 22198.9 | 13459.5 | 2907.9 | 2950.6 | 3419.9 | 4165.4 | 4443.9 | 3830.8 | 3300.8 | 3035.9 | 2979.7 |
| 60° | 21695.9 | 12058.2 | 2692.4 | 2770.9 | 3181.9 | 3871.2 | 4120.5 | 3657.9 | 3150.4 | 2923.7 | 2876.4 |
| 62.5° | 20431.7 | 10623.4 | 2532.9 | 2609.3 | 2959.5 | 3572.6 | 3918.4 | 3476.0 | 2997.7 | 2795.7 | 2748.4 |
| 65° | 17878.5 | 8919.1 | 2380.2 | 2465.5 | 2753.0 | 3314.4 | 3736.5 | 3307.6 | 2847.3 | 2692.4 | 2647.5 |
| 67.5° | 13495.4 | 6680.3 | 2236.5 | 2312.8 | 2568.8 | 3089.8 | 3538.9 | 3141.5 | 2701.3 | 2602.6 | 2548.6 |
| 70° | 7946.8 | 4183.3 | 2072.6 | 2153.5 | 2375.7 | 2856.2 | 3327.8 | 2959.5 | 2519.5 | 2474.6 | 2404.9 |
| 72.5° | 3698.3 | 2517.2 | 1886.2 | 1964.8 | 2133.2 | 2544.1 | 3056.1 | 2721.5 | 2303.9 | 2205.1 | 2110.8 |
| 75° | 2207.3 | 1841.3 | 1666.2 | 1735.8 | 1854.8 | 2211.8 | 2714.8 | 2479.0 | 2099.5 | 1969.3 | 1870.5 |
| 77.5° | 1650.4 | 1407.9 | 1423.7 | 1497.7 | 1594.3 | 1935.6 | 2404.9 | 2288.2 | 1942.4 | 1841.3 | 1773.9 |
| 80° | 1187.9 | 1068.9 | 1160.9 | 1241.8 | 1342.8 | 1760.4 | 2303.9 | 2115.3 | 1756.0 | 1621.3 | 1558.4 |
| 82.5° | 792.7 | 768.0 | 873.5 | 956.6 | 1055.4 | 1540.4 | 2164.6 | 1852.6 | 1500.0 | 1329.3 | 1190.1 |
| 85° | 437.8 | 462.6 | 588.3 | 624.2 | 709.6 | 1084.6 | 1773.9 | 1488.8 | 1129.5 | 909.4 | 869.0 |
| 87.5° | 181.8 | 213.3 | 316.6 | 305.4 | 377.3 | 646.7 | 1167.7 | 898.2 | 718.6 | 536.7 | 417.7 |
| 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)