

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: P322853

Luminaire Tested: **GAN-SA9C-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41738 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

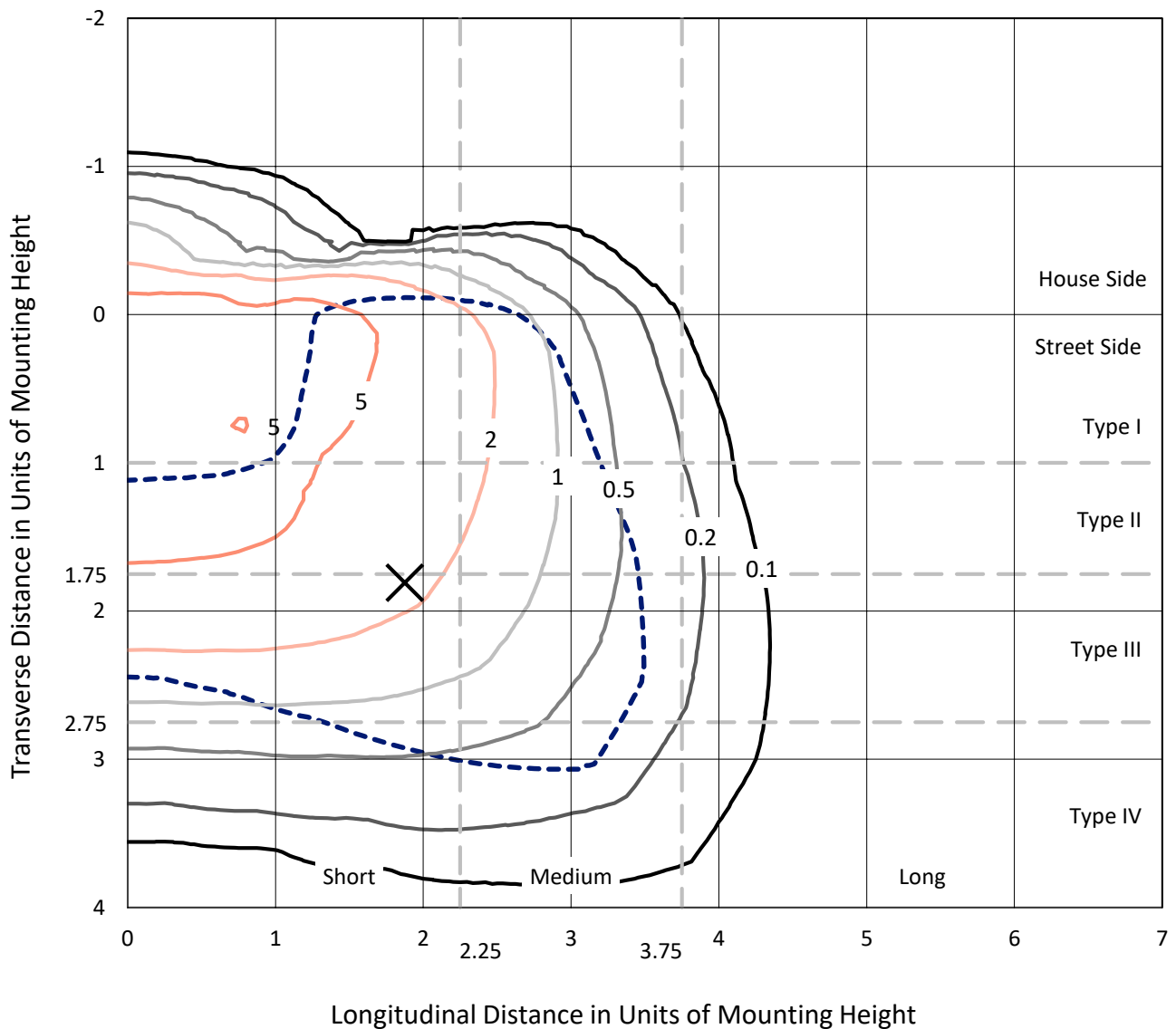
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

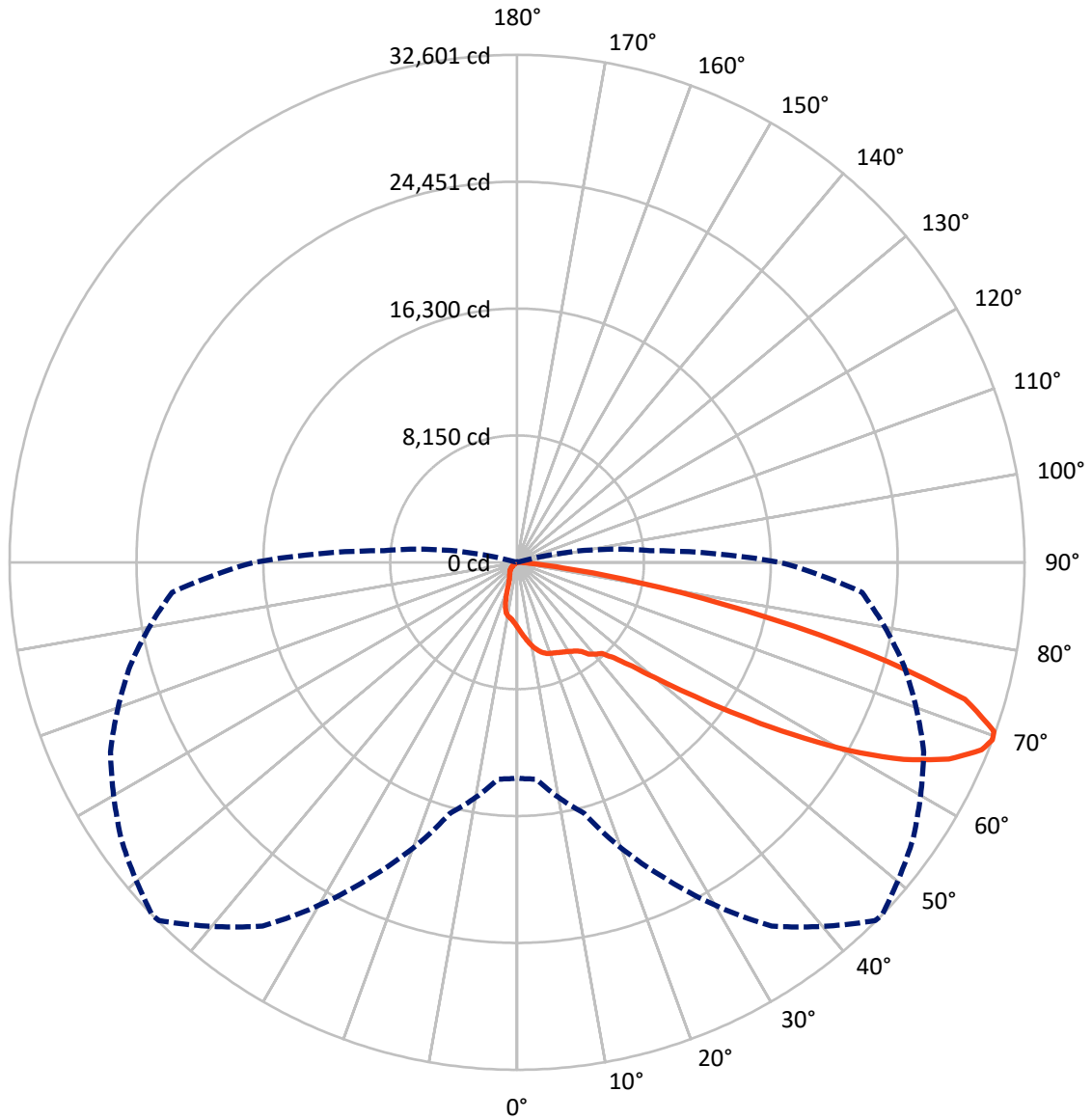
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4283.5 | 0.0 | 4283.5 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 37454.6 | 0.0 | 37454.6 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 41738.0 | 0.0 | 41738.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 416.3 | 1.0 |
| 10°-20° | 1262.8 | 3.0 |
| 20°-30° | 1986.0 | 4.8 |
| 30°-40° | 2847.9 | 6.8 |
| 40°-50° | 4922.3 | 11.8 |
| 50°-60° | 9724.4 | 23.3 |
| 60°-70° | 13590.7 | 32.6 |
| 70°-80° | 6565.8 | 15.7 |
| 80°-90° | 422.0 | 1.0 |
| 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° | 41738.0 | 100.0 |
| 0°-180° | 41738.0 | 100.0 |

Coefficient of Utilization

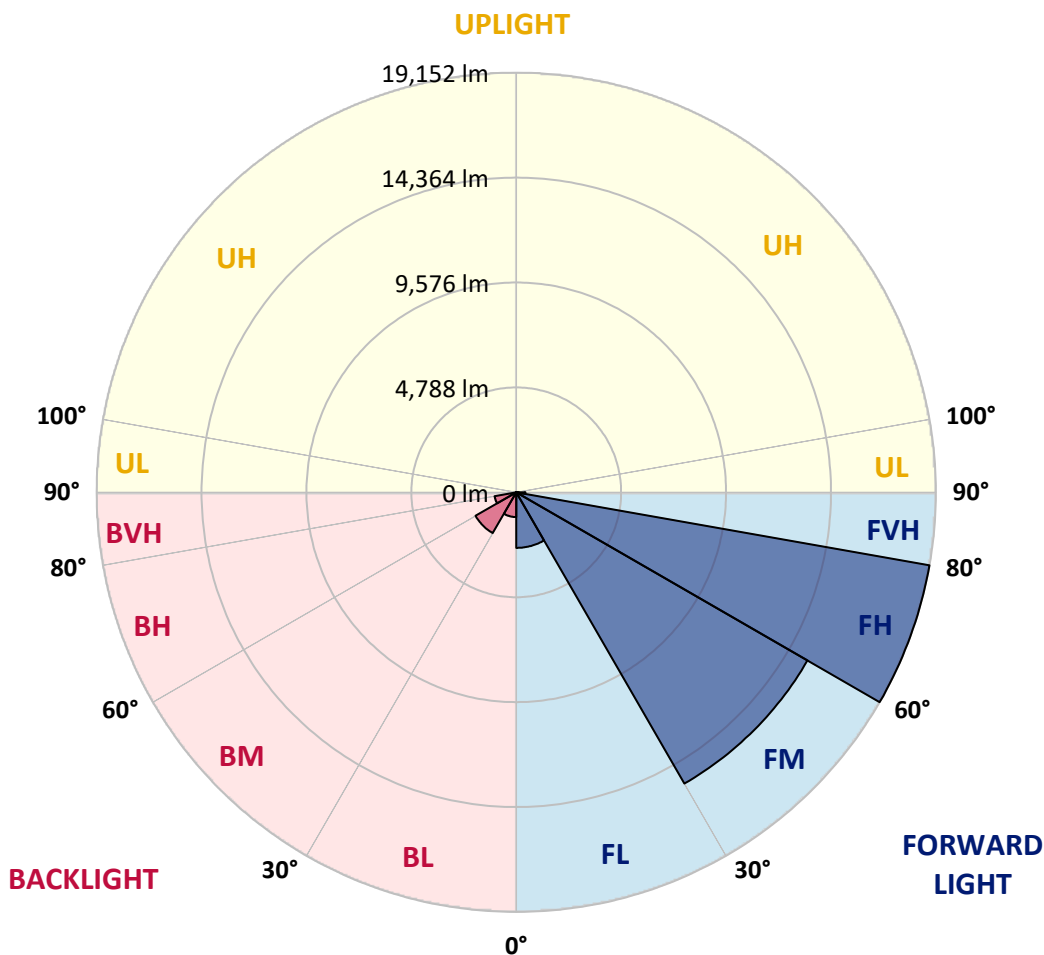


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2536.1 | 6.1 | | | |
| FM (30°-60°) | 15348.0 | 36.8 | | | |
| FH (60°-80°) | 19152.0 | 45.9 | | | G5 |
| FVH (80°-90°) | 418.5 | 1.0 | | | G3/500 |
| BL (0°-30°) | 1129.0 | 2.7 | B3/2500 | | |
| BM (30°-60°) | 2146.5 | 5.1 | B2/2500 | | |
| BH (60°-80°) | 1004.4 | 2.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 3.6 | 0.0 | | | G0/10 |
| 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° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4182.0 | 4182.0 | 4182.0 | 4182.0 | 4182.0 | 4182.0 | 4182.0 | 4182.0 | 4182.0 | 4182.0 | 4182.0 |
| 2.5° | 4645.8 | 4639.9 | 4612.5 | 4600.8 | 4534.2 | 4495.1 | 4479.4 | 4430.5 | 4360.1 | 4289.6 | 4211.3 |
| 5° | 5174.2 | 5172.2 | 5121.3 | 5072.4 | 4947.2 | 4829.7 | 4808.2 | 4694.7 | 4536.2 | 4387.5 | 4238.7 |
| 7.5° | 5714.3 | 5688.8 | 5638.0 | 5544.0 | 5362.0 | 5174.2 | 5156.6 | 4996.1 | 4771.0 | 4555.8 | 4342.5 |
| 10° | 6172.2 | 6156.5 | 6090.0 | 5947.2 | 5733.8 | 5520.5 | 5499.0 | 5301.4 | 5047.0 | 4782.8 | 4510.8 |
| 12.5° | 6528.4 | 6516.6 | 6428.6 | 6250.5 | 6023.5 | 5802.3 | 5773.0 | 5596.9 | 5324.8 | 5029.3 | 4708.4 |
| 15° | 6745.6 | 6739.7 | 6632.1 | 6442.3 | 6219.2 | 6027.4 | 6002.0 | 5847.4 | 5594.9 | 5285.7 | 4923.7 |
| 17.5° | 6796.5 | 6798.4 | 6686.9 | 6495.1 | 6311.1 | 6174.2 | 6154.6 | 6037.2 | 5825.8 | 5518.6 | 5138.9 |
| 20° | 6683.0 | 6706.5 | 6606.6 | 6440.3 | 6326.8 | 6254.4 | 6238.7 | 6168.3 | 5990.2 | 5700.6 | 5311.1 |
| 22.5° | 6522.5 | 6534.2 | 6465.7 | 6354.2 | 6307.2 | 6320.9 | 6313.1 | 6274.0 | 6123.3 | 5857.1 | 5481.4 |
| 25° | 6424.7 | 6424.7 | 6383.6 | 6289.6 | 6320.9 | 6405.1 | 6407.0 | 6399.2 | 6279.8 | 6048.9 | 5688.8 |
| 27.5° | 6420.7 | 6409.0 | 6362.0 | 6291.6 | 6377.7 | 6506.8 | 6514.7 | 6567.5 | 6493.1 | 6281.8 | 5947.2 |
| 30° | 6577.3 | 6563.6 | 6463.8 | 6371.8 | 6481.4 | 6620.3 | 6639.9 | 6755.4 | 6718.2 | 6534.2 | 6234.8 |
| 32.5° | 6943.2 | 6894.3 | 6673.2 | 6522.5 | 6604.7 | 6771.0 | 6796.5 | 6980.4 | 7039.1 | 6845.4 | 6512.7 |
| 35° | 7444.2 | 7289.6 | 6970.6 | 6808.2 | 6816.0 | 6990.2 | 7013.7 | 7283.7 | 7457.9 | 7131.1 | 6728.0 |
| 37.5° | 8135.0 | 8058.7 | 7540.1 | 7105.7 | 7140.9 | 7405.1 | 7473.6 | 7767.1 | 7718.2 | 7287.7 | 6972.6 |
| 40° | 9649.7 | 9530.3 | 8978.5 | 7939.3 | 7452.0 | 7741.7 | 7763.2 | 7919.8 | 7923.7 | 7641.9 | 7481.4 |
| 42.5° | 11712.3 | 11663.4 | 11082.2 | 9452.0 | 8064.6 | 7966.7 | 8005.9 | 8270.0 | 8565.5 | 8389.4 | 8381.6 |
| 45° | 13996.1 | 13970.6 | 13354.2 | 11459.9 | 9303.3 | 8704.5 | 8753.4 | 9107.6 | 9673.2 | 9712.3 | 9960.9 |
| 47.5° | 15833.6 | 15821.9 | 15467.7 | 13700.6 | 11199.6 | 9955.0 | 9970.6 | 10346.4 | 11340.5 | 11831.7 | 12228.9 |
| 50° | 17508.8 | 17565.5 | 17285.7 | 16125.2 | 13782.8 | 11913.9 | 11876.7 | 12127.2 | 13724.1 | 14528.4 | 15021.5 |
| 52.5° | 19837.6 | 19917.8 | 19133.1 | 18387.5 | 16493.1 | 14344.4 | 14315.1 | 14577.3 | 16589.0 | 17191.8 | 17279.8 |
| 55° | 21894.3 | 21757.3 | 21137.0 | 20921.7 | 19798.4 | 17346.4 | 17338.5 | 17569.5 | 19360.1 | 19616.4 | 19778.8 |
| 57.5° | 22802.3 | 22749.5 | 23048.9 | 23542.0 | 23260.2 | 20894.3 | 20876.7 | 20700.6 | 21839.5 | 21866.9 | 22365.9 |
| 60° | 23375.7 | 23440.3 | 24358.1 | 25878.6 | 26581.2 | 24712.3 | 24598.8 | 23524.4 | 24207.4 | 24146.7 | 24681.0 |
| 62.5° | 22945.2 | 23072.4 | 24724.0 | 27258.3 | 29066.5 | 28045.0 | 27884.5 | 26111.5 | 26230.9 | 26021.5 | 26518.6 |
| 65° | 20659.5 | 20857.1 | 23563.6 | 26998.0 | 30299.4 | 30649.7 | 30487.2 | 28395.3 | 27837.5 | 27493.1 | 27217.2 |
| 67.5° | 16774.9 | 16892.3 | 19718.2 | 24733.8 | 29743.6 | 32203.5 | 32170.2 | 30397.2 | 29050.8 | 27244.6 | 25103.7 |
| 69° | 13863.0 | 13978.5 | 16698.6 | 22350.3 | 28520.5 | 32536.2 | 32600.7 | 31039.1 | 28819.9 | 25733.8 | 22242.6 |
| 70° | 11741.7 | 11865.0 | 14399.2 | 20307.2 | 27101.7 | 32381.6 | 32497.0 | 30978.4 | 28158.5 | 23984.3 | 19731.9 |
| 72.5° | 6158.5 | 6264.2 | 8865.0 | 13990.2 | 22093.9 | 29733.8 | 30084.1 | 28360.0 | 23868.9 | 17418.8 | 11667.3 |
| 75° | 1935.4 | 1996.1 | 3461.8 | 7313.1 | 15127.2 | 23119.3 | 23199.6 | 22246.6 | 16949.1 | 9581.2 | 4859.1 |
| 77.5° | 737.8 | 720.2 | 1152.6 | 2694.7 | 7647.7 | 14557.7 | 15048.9 | 13902.1 | 8894.3 | 3387.5 | 1121.3 |
| 80° | 397.3 | 399.2 | 598.8 | 1115.5 | 3272.0 | 7481.4 | 7896.3 | 6737.8 | 3160.5 | 1056.8 | 258.3 |
| 82.5° | 172.2 | 180.0 | 336.6 | 591.0 | 1502.9 | 2759.3 | 2966.7 | 2469.7 | 1207.4 | 710.4 | 95.9 |
| 85° | 37.2 | 41.1 | 162.4 | 320.9 | 612.5 | 775.0 | 812.1 | 800.4 | 769.1 | 551.9 | 37.2 |
| 87.5° | 0.0 | 0.0 | 72.4 | 115.5 | 154.6 | 176.1 | 154.6 | 201.6 | 424.7 | 371.8 | 19.6 |
| 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-SA9C-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4182.0 | 4182.0 | 4182.0 | 4182.0 | 4182.0 | 4182.0 | 4182.0 | 4182.0 | 4182.0 | 4182.0 | 4182.0 |
| 2.5° | 4185.9 | 4150.7 | 4090.0 | 4023.5 | 3976.5 | 3927.6 | 3888.4 | 3870.8 | 3851.3 | 3837.6 | 3855.2 |
| 5° | 4178.1 | 4109.6 | 3992.2 | 3878.7 | 3796.5 | 3729.9 | 3675.1 | 3653.6 | 3632.1 | 3616.4 | 3614.5 |
| 7.5° | 4246.6 | 4150.7 | 3970.6 | 3804.3 | 3677.1 | 3587.1 | 3512.7 | 3481.4 | 3456.0 | 3444.2 | 3434.4 |
| 10° | 4377.7 | 4254.4 | 4013.7 | 3796.5 | 3632.1 | 3479.4 | 3319.0 | 3195.7 | 3115.5 | 3078.3 | 3064.6 |
| 12.5° | 4547.9 | 4393.3 | 4095.9 | 3837.6 | 3598.8 | 3305.3 | 2964.8 | 2671.2 | 2481.4 | 2418.8 | 2381.6 |
| 15° | 4747.5 | 4555.8 | 4203.5 | 3890.4 | 3477.5 | 2941.3 | 2364.0 | 1980.4 | 1804.3 | 1769.1 | 1729.9 |
| 17.5° | 4939.3 | 4728.0 | 4332.7 | 3900.2 | 3211.3 | 2350.3 | 1731.9 | 1471.6 | 1403.1 | 1426.6 | 1432.5 |
| 20° | 5107.6 | 4898.2 | 4459.9 | 3814.1 | 2728.0 | 1763.2 | 1340.5 | 1275.9 | 1301.4 | 1346.4 | 1354.2 |
| 22.5° | 5277.9 | 5062.6 | 4577.3 | 3587.1 | 2109.6 | 1338.6 | 1207.4 | 1223.1 | 1248.5 | 1293.5 | 1301.4 |
| 25° | 5485.3 | 5262.2 | 4686.9 | 3170.3 | 1583.2 | 1138.9 | 1146.8 | 1170.3 | 1195.7 | 1236.8 | 1240.7 |
| 27.5° | 5724.1 | 5514.7 | 4759.3 | 2628.2 | 1174.2 | 1047.0 | 1072.4 | 1107.6 | 1133.1 | 1172.2 | 1180.0 |
| 30° | 6041.1 | 5847.4 | 4782.8 | 2066.5 | 984.3 | 964.8 | 976.5 | 1019.6 | 1056.8 | 1092.0 | 1097.8 |
| 32.5° | 6338.5 | 6176.1 | 4704.5 | 1559.7 | 911.9 | 888.5 | 888.5 | 913.9 | 956.9 | 990.2 | 998.0 |
| 35° | 6612.5 | 6506.8 | 4454.0 | 1140.9 | 857.1 | 818.0 | 798.4 | 798.4 | 825.8 | 853.2 | 861.1 |
| 37.5° | 6974.6 | 6970.6 | 4048.9 | 910.0 | 804.3 | 759.3 | 718.2 | 686.9 | 677.1 | 683.0 | 686.9 |
| 40° | 7594.9 | 7600.8 | 3520.5 | 816.0 | 759.3 | 698.6 | 636.0 | 579.3 | 526.4 | 508.8 | 506.8 |
| 42.5° | 8563.6 | 8475.5 | 2966.7 | 771.0 | 720.2 | 636.0 | 542.1 | 465.8 | 383.6 | 358.1 | 356.2 |
| 45° | 10101.8 | 9579.2 | 2379.6 | 729.9 | 679.1 | 565.6 | 448.1 | 344.4 | 277.9 | 258.3 | 258.3 |
| 47.5° | 12342.5 | 11029.3 | 1843.4 | 684.9 | 624.3 | 485.3 | 338.6 | 248.5 | 203.5 | 193.7 | 195.7 |
| 50° | 14659.5 | 12450.1 | 1412.9 | 628.2 | 557.7 | 401.2 | 250.5 | 180.0 | 154.6 | 154.6 | 156.6 |
| 52.5° | 16714.3 | 13491.2 | 1101.8 | 567.5 | 475.5 | 315.1 | 189.8 | 140.9 | 129.2 | 127.2 | 129.2 |
| 55° | 18637.9 | 14162.4 | 843.4 | 497.1 | 377.7 | 234.8 | 144.8 | 115.5 | 107.6 | 103.7 | 101.8 |
| 57.5° | 20493.1 | 14495.1 | 632.1 | 401.2 | 274.0 | 170.3 | 115.5 | 97.8 | 90.0 | 84.1 | 82.2 |
| 60° | 21728.0 | 14225.0 | 434.4 | 295.5 | 189.8 | 123.3 | 95.9 | 84.1 | 74.4 | 68.5 | 66.5 |
| 62.5° | 22424.6 | 13487.3 | 279.8 | 213.3 | 135.0 | 92.0 | 76.3 | 70.5 | 56.8 | 50.9 | 50.9 |
| 65° | 22142.8 | 12270.0 | 195.7 | 152.6 | 97.8 | 68.5 | 56.8 | 56.8 | 41.1 | 33.3 | 31.3 |
| 67.5° | 19622.3 | 10365.9 | 148.7 | 113.5 | 70.5 | 50.9 | 43.1 | 48.9 | 25.4 | 15.7 | 15.7 |
| 69° | 16882.6 | 8591.0 | 127.2 | 93.9 | 58.7 | 41.1 | 37.2 | 45.0 | 17.6 | 11.7 | 9.8 |
| 70° | 14673.2 | 7411.0 | 115.5 | 82.2 | 48.9 | 35.2 | 33.3 | 43.1 | 17.6 | 9.8 | 7.8 |
| 72.5° | 8778.9 | 4133.1 | 88.1 | 58.7 | 31.3 | 27.4 | 27.4 | 48.9 | 17.6 | 9.8 | 7.8 |
| 75° | 3547.9 | 1456.0 | 64.6 | 41.1 | 23.5 | 23.5 | 33.3 | 62.6 | 15.7 | 7.8 | 5.9 |
| 77.5° | 804.3 | 319.0 | 37.2 | 25.4 | 15.7 | 23.5 | 39.1 | 48.9 | 9.8 | 3.9 | 0.0 |
| 80° | 195.7 | 78.3 | 23.5 | 15.7 | 9.8 | 17.6 | 29.4 | 27.4 | 2.0 | 0.0 | 0.0 |
| 82.5° | 64.6 | 27.4 | 9.8 | 7.8 | 2.0 | 5.9 | 13.7 | 7.8 | 0.0 | 0.0 | 0.0 |
| 85° | 27.4 | 15.7 | 3.9 | 2.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.6 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)