

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: P323513

Luminaire Tested: **GAN-SA9A-740-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35592 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

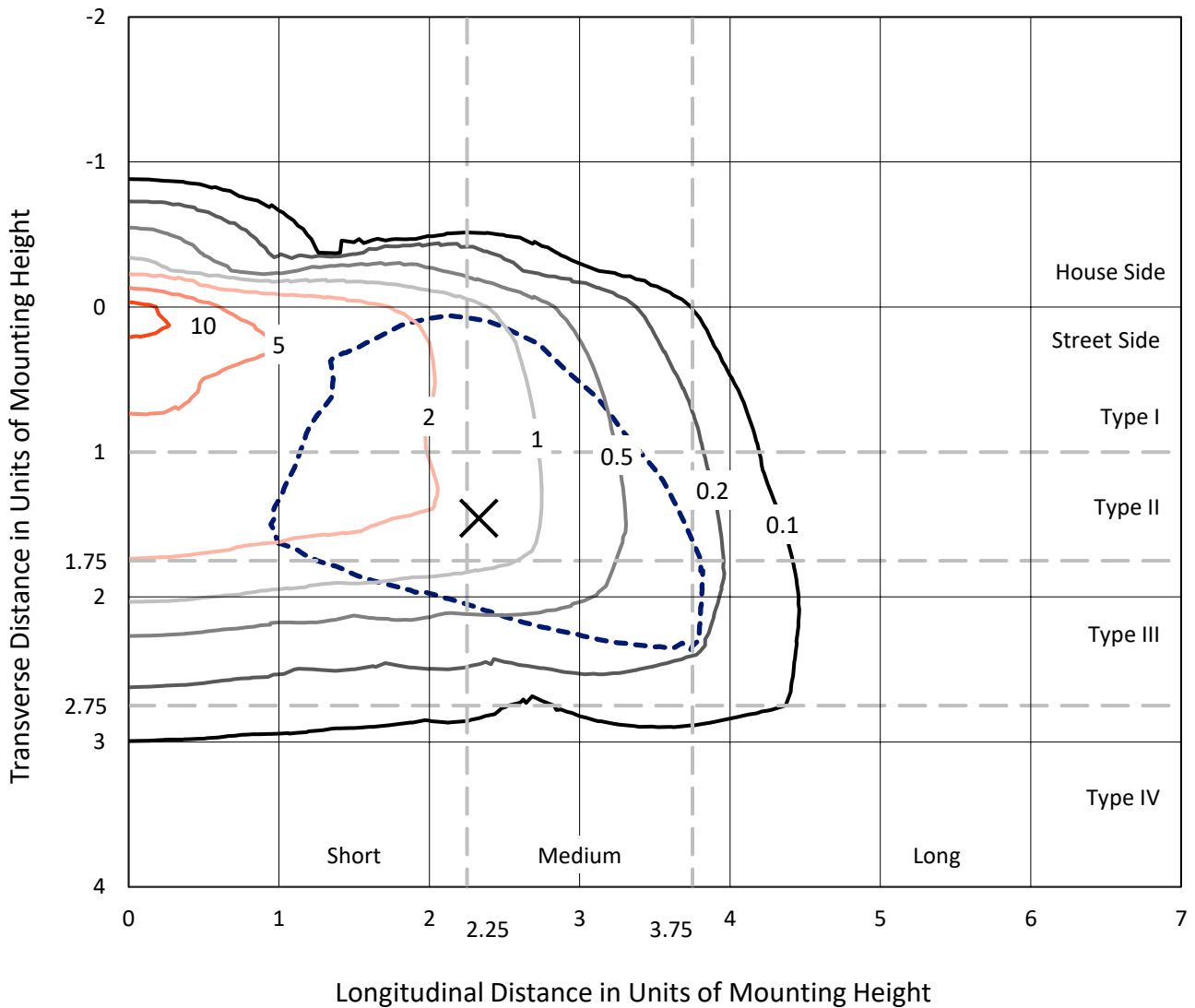
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

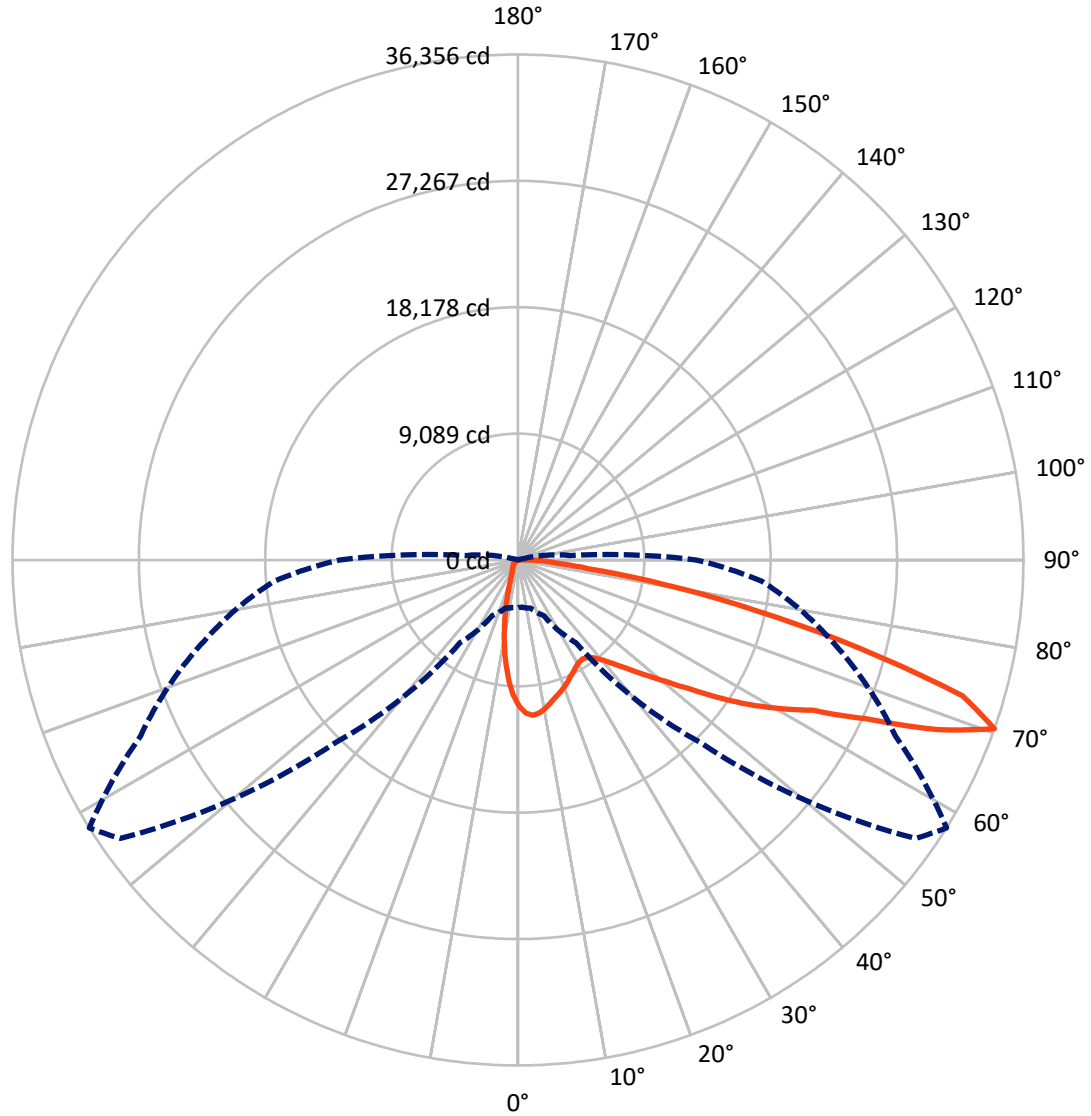
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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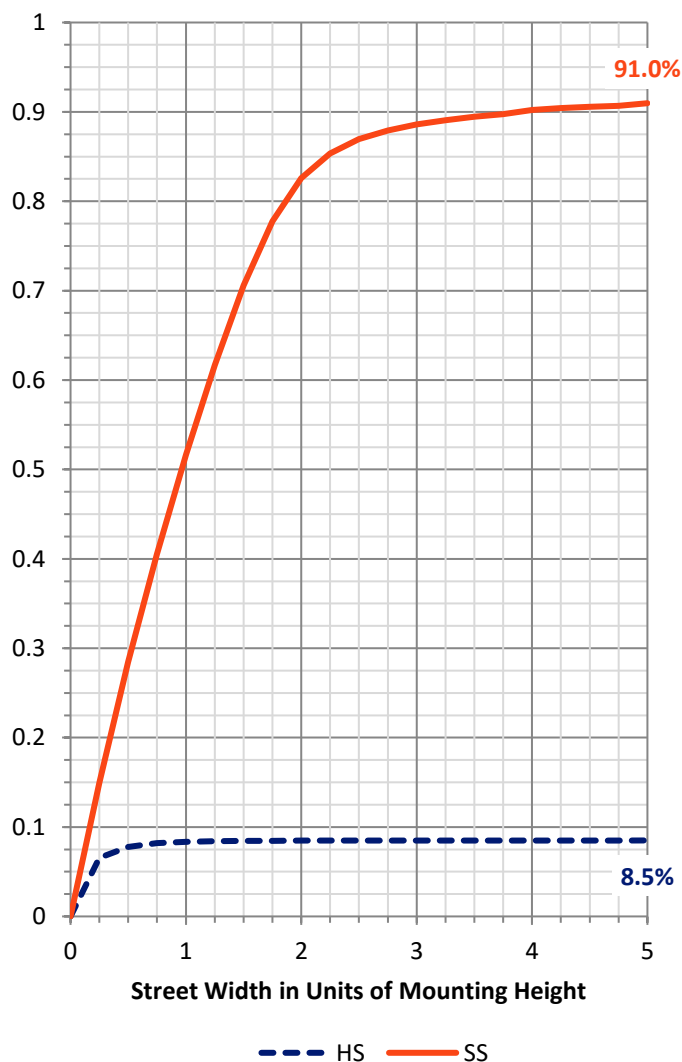
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3045.9 | 0.0 | 3045.9 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 32546.1 | 0.0 | 32546.1 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 35592.0 | 0.0 | 35592.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 859.8 | 2.4 |
| 10°-20° | 1804.4 | 5.1 |
| 20°-30° | 2372.2 | 6.7 |
| 30°-40° | 3141.7 | 8.8 |
| 40°-50° | 4695.9 | 13.2 |
| 50°-60° | 7522.6 | 21.1 |
| 60°-70° | 9482.2 | 26.6 |
| 70°-80° | 5114.6 | 14.4 |
| 80°-90° | 598.7 | 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° | 35592.0 | 100.0 |
| 0°-180° | 35592.0 | 100.0 |

Coefficient of Utilization



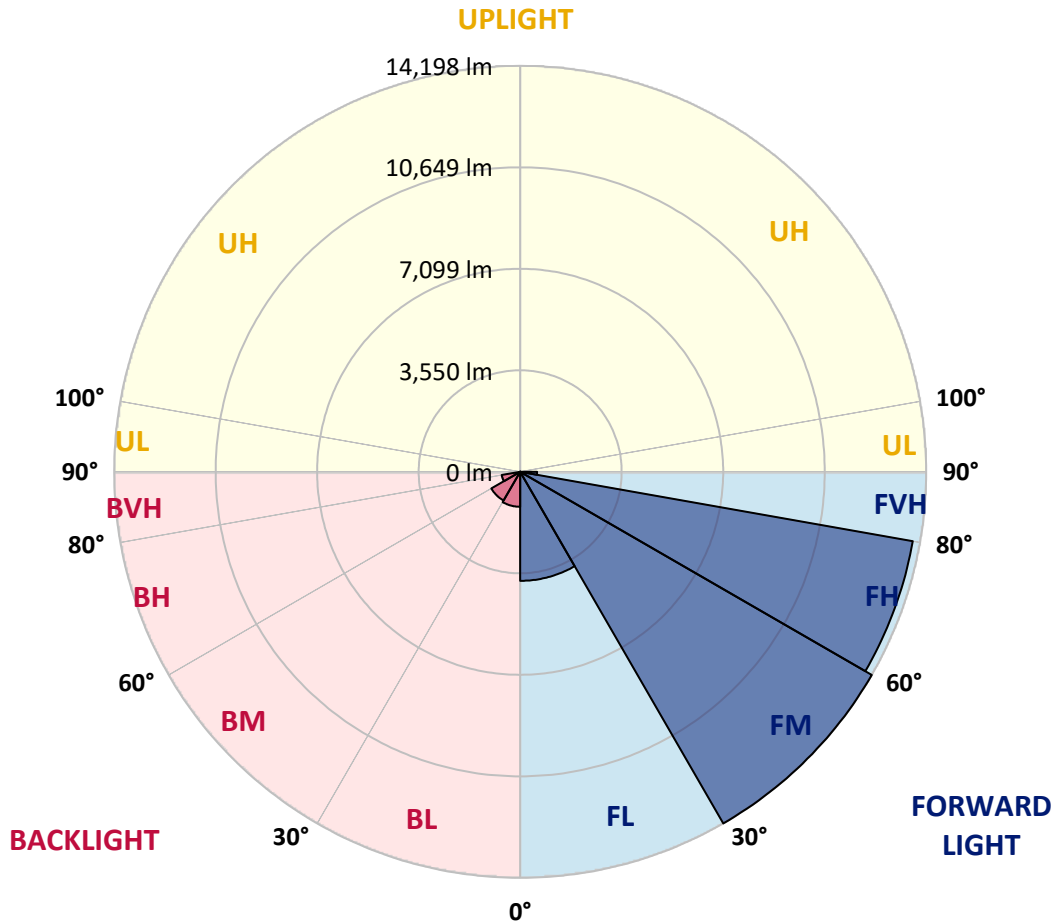
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3812.6 | 10.7 | | | |
| FM (30°-60°) | 14198.2 | 39.9 | | | |
| FH (60°-80°) | 13941.8 | 39.2 | | | G5 |
| FVH (80°-90°) | 593.5 | 1.7 | | | G4/750 |
| BL (0°-30°) | 1223.7 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 1162.0 | 3.3 | B2/2500 | | |
| BH (60°-80°) | 655.0 | 1.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.2 | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10513.7 | 10513.7 | 10513.7 | 10513.7 | 10513.7 | 10513.7 | 10513.7 | 10513.7 | 10513.7 | 10513.7 | 10513.7 |
| 2.5° | 11385.4 | 11357.3 | 11346.9 | 11329.2 | 11261.1 | 11194.5 | 11062.8 | 11025.8 | 10942.9 | 10746.1 | 10537.4 |
| 5° | 11394.3 | 11392.8 | 11423.9 | 11416.5 | 11392.8 | 11361.7 | 11267.0 | 11218.2 | 11077.6 | 10796.4 | 10414.6 |
| 7.5° | 10845.2 | 10873.3 | 10942.9 | 10999.1 | 11064.3 | 11148.6 | 11160.5 | 11113.1 | 10997.7 | 10694.3 | 10188.1 |
| 10° | 10108.2 | 10152.6 | 10250.3 | 10361.3 | 10531.5 | 10700.2 | 10851.1 | 10845.2 | 10805.3 | 10506.3 | 9915.8 |
| 12.5° | 9369.7 | 9421.5 | 9534.0 | 9698.2 | 9939.5 | 10214.8 | 10484.1 | 10521.1 | 10587.7 | 10337.6 | 9664.2 |
| 15° | 8722.9 | 8767.3 | 8878.3 | 9079.6 | 9378.6 | 9748.6 | 10143.7 | 10211.8 | 10383.5 | 10205.9 | 9454.0 |
| 17.5° | 8173.9 | 8202.0 | 8283.4 | 8506.9 | 8853.2 | 9301.6 | 9815.2 | 9948.4 | 10204.4 | 10102.3 | 9272.0 |
| 20° | 7790.6 | 7795.0 | 7848.3 | 8005.2 | 8351.5 | 8853.2 | 9474.8 | 9665.7 | 10015.0 | 10013.5 | 9084.1 |
| 22.5° | 7601.1 | 7586.3 | 7596.7 | 7687.0 | 7941.5 | 8425.5 | 9134.4 | 9360.8 | 9844.8 | 9938.0 | 8893.1 |
| 25° | 7565.6 | 7553.8 | 7524.2 | 7536.0 | 7689.9 | 8051.0 | 8791.0 | 9053.0 | 9695.3 | 9892.1 | 8727.4 |
| 27.5° | 7676.6 | 7688.4 | 7638.1 | 7584.8 | 7596.7 | 7808.3 | 8486.1 | 8789.5 | 9573.9 | 9892.1 | 8610.5 |
| 30° | 7900.1 | 7906.0 | 7869.0 | 7799.4 | 7706.2 | 7740.2 | 8274.5 | 8577.9 | 9513.2 | 9960.2 | 8536.5 |
| 32.5° | 8147.2 | 8179.8 | 8175.4 | 8119.1 | 7985.9 | 7848.3 | 8224.2 | 8500.9 | 9508.8 | 10111.2 | 8529.1 |
| 35° | 8453.6 | 8490.6 | 8552.7 | 8540.9 | 8401.8 | 8175.4 | 8395.9 | 8613.4 | 9596.1 | 10359.8 | 8609.0 |
| 37.5° | 8779.2 | 8835.4 | 8968.6 | 9032.3 | 8942.0 | 8685.9 | 8780.7 | 8936.1 | 9830.0 | 10762.3 | 8811.7 |
| 40° | 9094.4 | 9158.1 | 9400.8 | 9650.9 | 9582.8 | 9319.4 | 9363.8 | 9488.1 | 10245.8 | 11341.0 | 9196.5 |
| 42.5° | 9403.7 | 9498.4 | 9855.1 | 10266.6 | 10348.0 | 10137.8 | 10161.5 | 10260.6 | 10863.0 | 12137.2 | 9825.5 |
| 45° | 9773.7 | 9880.3 | 10408.6 | 10916.3 | 11133.8 | 11042.1 | 11142.7 | 11207.8 | 11669.6 | 13189.5 | 10673.5 |
| 47.5° | 10316.9 | 10439.7 | 11087.9 | 11666.6 | 12048.4 | 12107.6 | 12310.4 | 12353.3 | 12689.3 | 14414.9 | 11779.1 |
| 50° | 11376.5 | 11410.6 | 11996.6 | 12522.0 | 13072.6 | 13427.8 | 13658.6 | 13691.2 | 13923.6 | 15754.3 | 13159.9 |
| 52.5° | 12710.0 | 12732.2 | 13063.7 | 13415.9 | 14042.0 | 14767.1 | 15307.3 | 15353.2 | 15402.0 | 17059.6 | 14522.9 |
| 55° | 14034.6 | 14031.6 | 14250.6 | 14457.8 | 15174.1 | 16227.9 | 17400.0 | 17428.1 | 17077.4 | 18298.4 | 15564.8 |
| 57.5° | 14861.9 | 14941.8 | 15274.8 | 15541.2 | 16541.6 | 17892.8 | 19519.3 | 19622.9 | 18837.1 | 19215.9 | 16594.9 |
| 60° | 14598.4 | 14636.9 | 15375.4 | 16361.1 | 18245.1 | 20259.3 | 21663.8 | 21690.4 | 20160.2 | 20132.0 | 17897.3 |
| 62.5° | 12437.7 | 12458.4 | 13618.7 | 15650.7 | 19107.9 | 23328.8 | 24250.8 | 23817.2 | 21681.6 | 21403.3 | 19455.7 |
| 65° | 8524.6 | 8659.3 | 9628.7 | 12140.2 | 17522.8 | 25254.2 | 28255.6 | 27537.8 | 24000.7 | 23235.5 | 20864.6 |
| 67.5° | 5020.1 | 4991.9 | 5471.4 | 7321.4 | 12869.8 | 23975.5 | 33321.5 | 32608.2 | 27163.4 | 24462.4 | 20451.7 |
| 70° | 3429.1 | 3409.9 | 3593.4 | 4432.5 | 7265.2 | 18598.8 | 34915.5 | 36355.5 | 29956.1 | 23636.6 | 17601.3 |
| 72.5° | 2447.9 | 2458.2 | 2729.1 | 3443.9 | 4561.3 | 10836.3 | 30025.6 | 33434.0 | 29081.4 | 20605.6 | 13378.9 |
| 75° | 1662.0 | 1690.1 | 2077.9 | 2825.3 | 3998.9 | 5512.9 | 21307.1 | 25415.5 | 23681.0 | 14975.8 | 7689.9 |
| 77.5° | 893.9 | 925.0 | 1382.3 | 2276.2 | 3615.6 | 3830.2 | 13706.0 | 17491.8 | 14875.2 | 6732.4 | 2228.8 |
| 80° | 373.0 | 390.7 | 646.7 | 1654.6 | 3124.2 | 3364.0 | 8064.4 | 10606.9 | 6338.7 | 1327.5 | 497.3 |
| 82.5° | 161.3 | 170.2 | 269.4 | 987.1 | 2335.4 | 2840.1 | 4269.7 | 5102.9 | 1921.0 | 291.6 | 250.1 |
| 85° | 31.1 | 32.6 | 111.0 | 522.4 | 1490.3 | 1602.8 | 2767.5 | 2712.8 | 862.8 | 125.8 | 182.0 |
| 87.5° | 0.0 | 0.0 | 26.6 | 164.3 | 438.1 | 873.2 | 1688.6 | 1667.9 | 293.0 | 60.7 | 68.1 |
| 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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 CATALOG NUMBER: GAN-SA9A-740-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10513.7 | 10513.7 | 10513.7 | 10513.7 | 10513.7 | 10513.7 | 10513.7 | 10513.7 | 10513.7 | 10513.7 | 10513.7 |
| 2.5° | 10430.8 | 10328.7 | 10114.1 | 9849.2 | 9646.4 | 9423.0 | 9245.4 | 9020.4 | 8922.7 | 8927.2 | 8873.9 |
| 5° | 10197.0 | 9986.8 | 9511.8 | 8912.4 | 8450.6 | 7974.1 | 7564.1 | 7155.7 | 6914.4 | 6836.0 | 6762.0 |
| 7.5° | 9862.5 | 9529.5 | 8771.8 | 7848.3 | 7066.9 | 6303.2 | 5638.7 | 5054.1 | 4684.1 | 4503.5 | 4437.0 |
| 10° | 9485.1 | 9017.5 | 7920.8 | 6704.3 | 5588.4 | 4555.3 | 3694.0 | 2945.1 | 2646.2 | 2443.4 | 2391.6 |
| 12.5° | 9153.6 | 8520.2 | 7089.1 | 5530.6 | 4206.1 | 2959.9 | 2138.6 | 1672.4 | 1469.6 | 1389.7 | 1376.4 |
| 15° | 8841.3 | 8055.5 | 6288.4 | 4468.0 | 2912.6 | 1821.8 | 1360.1 | 1201.7 | 1154.4 | 1141.1 | 1141.1 |
| 17.5° | 8546.8 | 7613.0 | 5505.5 | 3421.7 | 1926.9 | 1277.2 | 1126.3 | 1090.7 | 1075.9 | 1074.5 | 1075.9 |
| 20° | 8239.0 | 7170.5 | 4735.9 | 2507.1 | 1345.3 | 1081.9 | 1040.4 | 1021.2 | 1016.7 | 1016.7 | 1016.7 |
| 22.5° | 7944.5 | 6727.9 | 3987.0 | 1790.8 | 1078.9 | 987.1 | 966.4 | 953.1 | 948.7 | 947.2 | 944.2 |
| 25° | 7661.8 | 6307.6 | 3255.9 | 1265.4 | 947.2 | 904.3 | 886.5 | 868.7 | 855.4 | 848.0 | 843.6 |
| 27.5° | 7429.5 | 5933.2 | 2575.1 | 1015.3 | 855.4 | 818.4 | 796.2 | 769.6 | 737.0 | 722.2 | 716.3 |
| 30° | 7244.5 | 5591.3 | 1984.6 | 856.9 | 769.6 | 732.6 | 698.5 | 652.7 | 605.3 | 580.1 | 578.7 |
| 32.5° | 7099.4 | 5255.4 | 1506.6 | 757.7 | 692.6 | 646.7 | 597.9 | 540.2 | 485.4 | 457.3 | 455.8 |
| 35° | 7028.4 | 4959.4 | 1151.4 | 685.2 | 624.5 | 566.8 | 506.1 | 442.5 | 389.2 | 362.6 | 359.6 |
| 37.5° | 7075.7 | 4709.3 | 898.3 | 624.5 | 566.8 | 500.2 | 429.2 | 362.6 | 315.2 | 291.6 | 290.1 |
| 40° | 7248.9 | 4549.4 | 729.6 | 572.7 | 518.0 | 436.6 | 359.6 | 297.5 | 257.5 | 238.3 | 236.8 |
| 42.5° | 7617.4 | 4490.2 | 623.1 | 529.8 | 470.6 | 377.4 | 299.0 | 245.7 | 208.7 | 195.4 | 192.4 |
| 45° | 8233.1 | 4577.5 | 550.5 | 488.4 | 421.8 | 321.2 | 247.2 | 201.3 | 168.7 | 158.4 | 156.9 |
| 47.5° | 9053.0 | 4806.9 | 498.7 | 448.4 | 377.4 | 270.8 | 205.7 | 162.8 | 137.6 | 127.3 | 125.8 |
| 50° | 10109.7 | 5171.0 | 455.8 | 408.5 | 336.0 | 229.4 | 170.2 | 128.8 | 106.6 | 99.2 | 99.2 |
| 52.5° | 11259.6 | 5604.6 | 417.4 | 371.5 | 294.5 | 190.9 | 137.6 | 99.2 | 84.4 | 75.5 | 75.5 |
| 55° | 12209.8 | 5983.5 | 375.9 | 343.4 | 244.2 | 158.4 | 105.1 | 75.5 | 62.2 | 57.7 | 57.7 |
| 57.5° | 13158.4 | 6387.6 | 328.6 | 294.5 | 195.4 | 128.8 | 79.9 | 56.2 | 45.9 | 42.9 | 42.9 |
| 60° | 14388.3 | 6881.9 | 282.7 | 239.8 | 153.9 | 97.7 | 59.2 | 40.0 | 34.0 | 32.6 | 32.6 |
| 62.5° | 15741.0 | 7171.9 | 241.2 | 192.4 | 119.9 | 72.5 | 42.9 | 26.6 | 25.2 | 25.2 | 23.7 |
| 65° | 16568.3 | 6762.0 | 202.8 | 153.9 | 93.2 | 54.8 | 28.1 | 19.2 | 22.2 | 20.7 | 17.8 |
| 67.5° | 15513.0 | 5293.9 | 165.8 | 119.9 | 72.5 | 41.4 | 17.8 | 13.3 | 23.7 | 19.2 | 14.8 |
| 70° | 12844.7 | 3705.8 | 128.8 | 84.4 | 57.7 | 35.5 | 11.8 | 8.9 | 25.2 | 19.2 | 11.8 |
| 72.5° | 9612.4 | 2480.4 | 102.1 | 56.2 | 42.9 | 31.1 | 10.4 | 4.4 | 22.2 | 16.3 | 10.4 |
| 75° | 5252.4 | 999.0 | 81.4 | 35.5 | 26.6 | 22.2 | 7.4 | 3.0 | 14.8 | 11.8 | 7.4 |
| 77.5° | 1382.3 | 263.4 | 59.2 | 23.7 | 14.8 | 8.9 | 4.4 | 1.5 | 7.4 | 5.9 | 3.0 |
| 80° | 352.2 | 102.1 | 38.5 | 16.3 | 10.4 | 4.4 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 |
| 82.5° | 188.0 | 42.9 | 23.7 | 11.8 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 142.1 | 28.1 | 13.3 | 7.4 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 54.8 | 8.9 | 4.4 | 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)