

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: P383622

Luminaire Tested: **GAN-SA9A-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27608.3 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

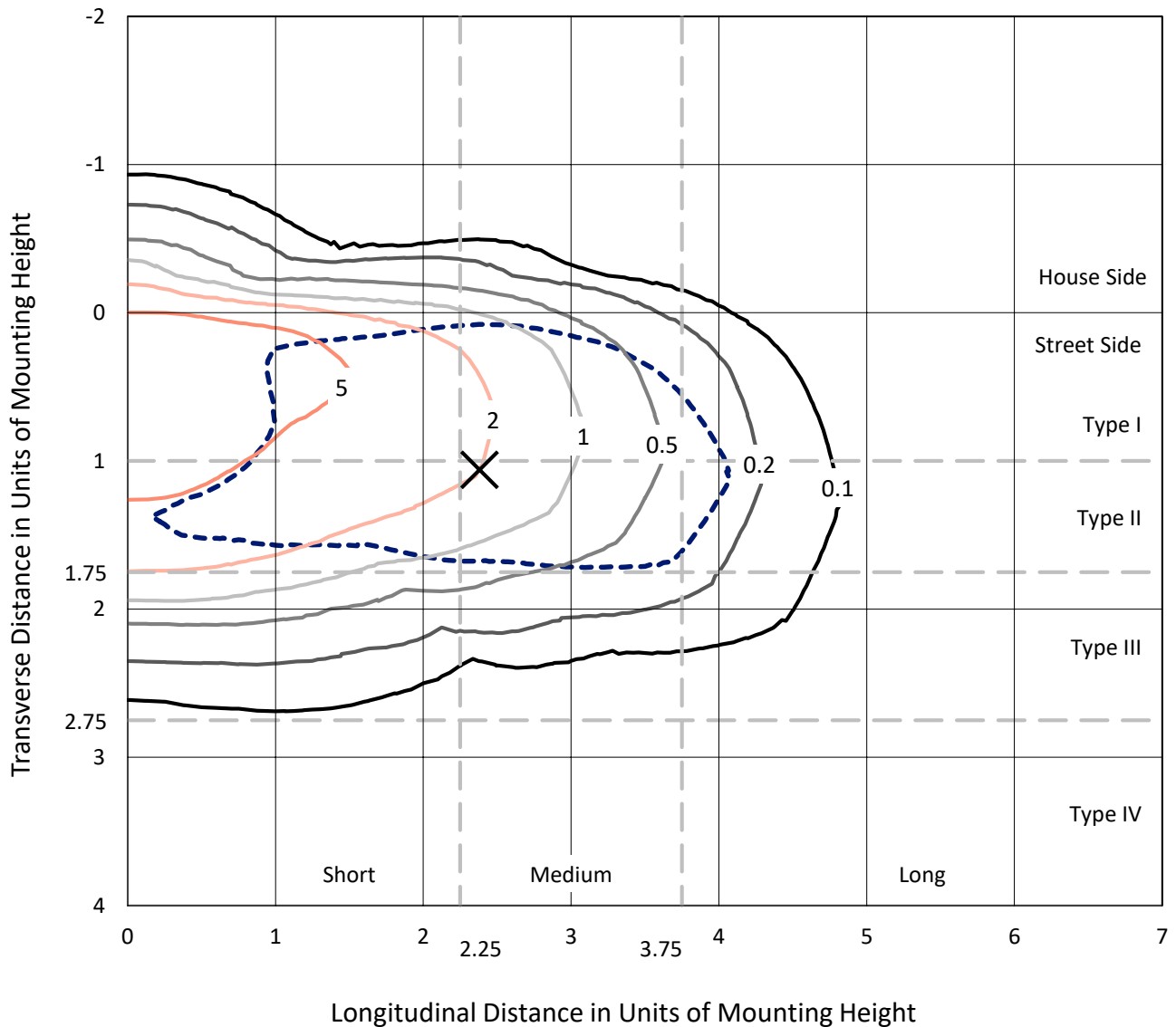
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

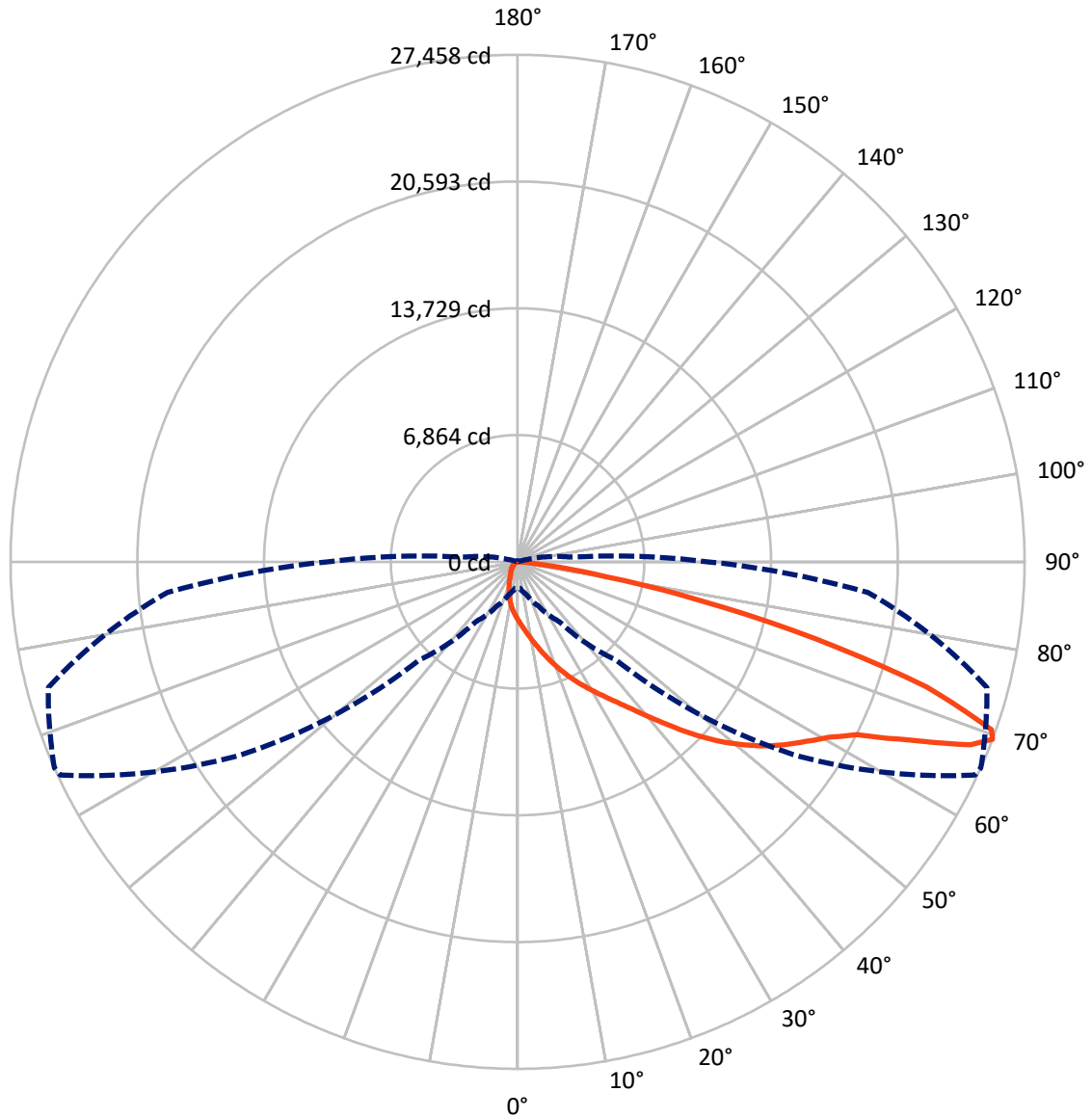
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1656.1 | 0.0 | 1656.1 |
| | % Fixture | 6.0 | 0.0 | 6.0 |
| Street Side | Lumens | 25952.2 | 0.0 | 25952.2 |
| | % Fixture | 94.0 | 0.0 | 94.0 |
| Total | Lumens | 27608.3 | 0.0 | 27608.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 303.7 | 1.1 |
| 10°-20° | 903.9 | 3.3 |
| 20°-30° | 1574.0 | 5.7 |
| 30°-40° | 2761.6 | 10.0 |
| 40°-50° | 4622.5 | 16.7 |
| 50°-60° | 6794.6 | 24.6 |
| 60°-70° | 6976.3 | 25.3 |
| 70°-80° | 3444.0 | 12.5 |
| 80°-90° | 227.7 | 0.8 |
| 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° | 27608.3 | 100.0 |
| 0°-180° | 27608.3 | 100.0 |

Coefficient of Utilization



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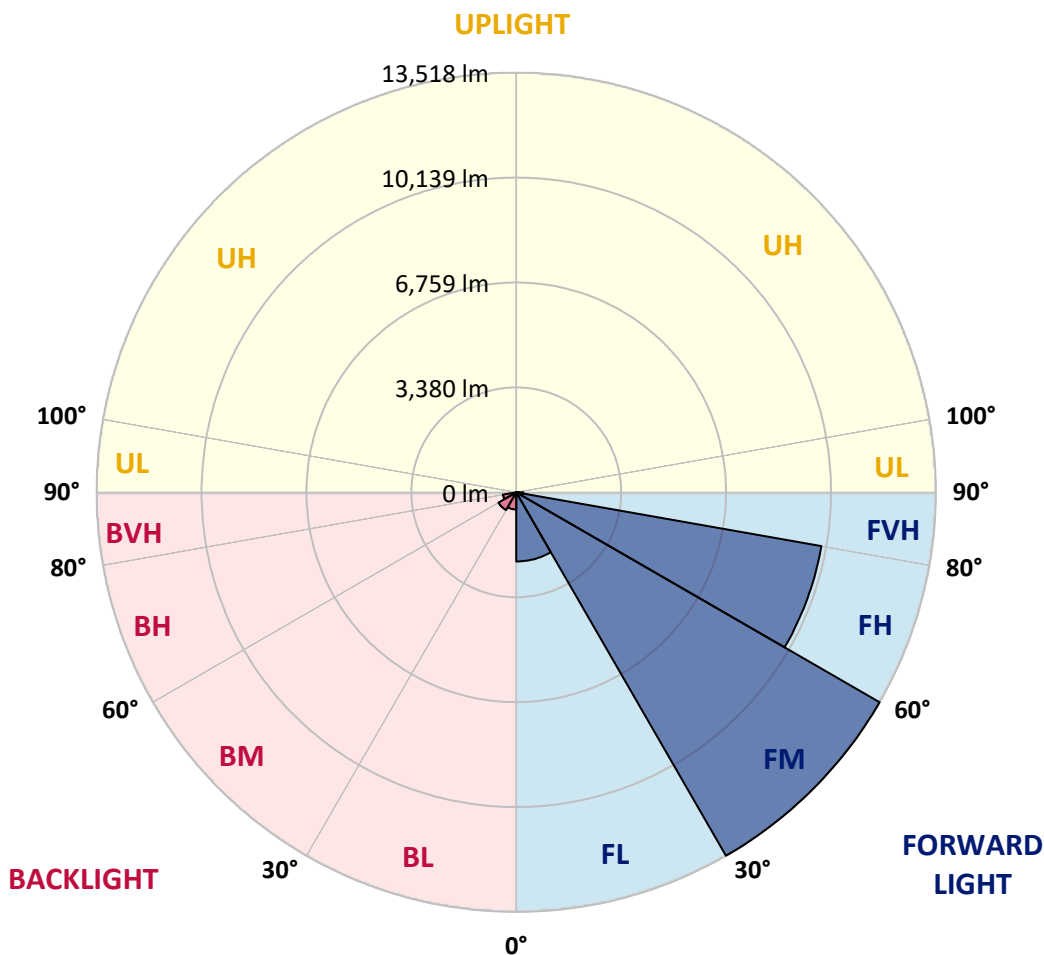
CATALOG NUMBER: GAN-SA9A-735-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2227.7 | 8.1 | | | |
| FM (30°-60°) | 13518.3 | 49.0 | | | |
| FH (60°-80°) | 9983.9 | 36.2 | | | G4/12000 |
| FVH (80°-90°) | 222.2 | 0.8 | | | G2/225 |
| BL (0°-30°) | 553.9 | 2.0 | B2/1000 | | |
| BM (30°-60°) | 660.3 | 2.4 | B1/1000 | | |
| BH (60°-80°) | 436.4 | 1.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3141.9 | 3141.9 | 3141.9 | 3141.9 | 3141.9 | 3141.9 | 3141.9 | 3141.9 | 3141.9 | 3141.9 | 3141.9 |
| 2.5° | 3697.9 | 3682.1 | 3675.6 | 3646.7 | 3596.9 | 3558.9 | 3485.5 | 3400.2 | 3384.5 | 3301.9 | 3200.9 |
| 5° | 4177.8 | 4164.8 | 4155.5 | 4114.9 | 4063.8 | 3968.0 | 3834.2 | 3675.6 | 3645.4 | 3488.1 | 3286.1 |
| 7.5° | 4512.2 | 4535.8 | 4535.8 | 4509.6 | 4445.3 | 4373.2 | 4209.3 | 3993.0 | 3954.9 | 3713.6 | 3400.2 |
| 10° | 4707.6 | 4736.5 | 4758.7 | 4781.1 | 4771.9 | 4743.1 | 4588.2 | 4344.4 | 4298.5 | 3978.5 | 3532.7 |
| 12.5° | 4726.0 | 4754.8 | 4817.8 | 4910.8 | 5001.4 | 5067.0 | 4969.9 | 4733.8 | 4681.4 | 4285.4 | 3690.0 |
| 15° | 4623.7 | 4653.8 | 4750.9 | 4931.9 | 5150.8 | 5342.3 | 5373.7 | 5165.2 | 5111.5 | 4651.2 | 3886.7 |
| 17.5° | 4445.3 | 4465.0 | 4604.0 | 4854.5 | 5198.0 | 5549.5 | 5739.6 | 5628.1 | 5578.3 | 5069.6 | 4105.7 |
| 20° | 4312.9 | 4327.3 | 4449.3 | 4718.1 | 5169.2 | 5679.3 | 6085.8 | 6119.9 | 6067.4 | 5518.0 | 4343.1 |
| 22.5° | 4539.8 | 4566.0 | 4569.9 | 4697.1 | 5090.5 | 5743.5 | 6390.0 | 6603.7 | 6564.4 | 5994.0 | 4576.5 |
| 25° | 5160.0 | 5190.2 | 5090.5 | 5011.8 | 5157.4 | 5772.4 | 6651.0 | 7099.4 | 7068.0 | 6506.8 | 4811.3 |
| 27.5° | 5979.6 | 6011.1 | 5882.5 | 5647.8 | 5507.5 | 5881.2 | 6883.1 | 7603.0 | 7601.7 | 7049.7 | 5064.3 |
| 30° | 6784.7 | 6816.2 | 6685.1 | 6450.3 | 6127.8 | 6189.4 | 7083.8 | 8130.2 | 8138.0 | 7609.5 | 5333.1 |
| 32.5° | 7629.2 | 7668.6 | 7533.5 | 7231.9 | 6894.8 | 6721.8 | 7365.7 | 8659.9 | 8704.5 | 8258.6 | 5636.0 |
| 35° | 8589.1 | 8594.4 | 8404.2 | 8088.2 | 7700.1 | 7433.8 | 7818.0 | 9254.0 | 9360.2 | 9062.5 | 6020.2 |
| 37.5° | 9530.7 | 9568.7 | 9412.6 | 8914.4 | 8557.7 | 8256.0 | 8490.8 | 9996.2 | 10147.0 | 10044.7 | 6522.5 |
| 40° | 10228.3 | 10308.2 | 10286.0 | 9748.3 | 9410.0 | 9194.9 | 9326.1 | 10878.7 | 11070.1 | 11188.2 | 7155.9 |
| 42.5° | 10666.2 | 10726.6 | 10828.9 | 10505.0 | 10198.1 | 10233.5 | 10312.1 | 11906.8 | 12142.8 | 12491.6 | 7883.6 |
| 45° | 11168.5 | 11197.3 | 11282.5 | 11139.6 | 10932.5 | 11289.1 | 11358.6 | 13064.7 | 13312.5 | 13893.4 | 8691.4 |
| 47.5° | 11782.1 | 11850.3 | 11874.0 | 11742.8 | 11648.4 | 12222.7 | 12367.0 | 14117.6 | 14465.1 | 15394.8 | 9546.4 |
| 50° | 12563.7 | 12582.0 | 12622.7 | 12537.5 | 12443.1 | 13025.3 | 13271.9 | 15223.1 | 15539.1 | 16901.5 | 10389.6 |
| 52.5° | 13328.2 | 13393.8 | 13535.4 | 13481.6 | 13443.6 | 13708.5 | 14078.3 | 16219.6 | 16572.4 | 18157.8 | 11231.4 |
| 55° | 13548.5 | 13604.9 | 14094.0 | 14428.4 | 14737.8 | 14550.3 | 14849.3 | 17112.6 | 17494.3 | 19280.2 | 12041.8 |
| 57.5° | 12668.6 | 12782.7 | 13629.8 | 14500.6 | 15784.3 | 15859.0 | 15908.9 | 18029.3 | 18371.5 | 20140.5 | 12885.0 |
| 60° | 10444.6 | 10467.0 | 11856.9 | 13350.5 | 15611.2 | 17001.2 | 17456.2 | 19014.1 | 19301.2 | 20941.7 | 13894.7 |
| 62.5° | 6643.1 | 6870.0 | 8395.0 | 10503.7 | 13780.6 | 16836.0 | 19327.5 | 20503.7 | 20608.6 | 21902.9 | 15342.4 |
| 65° | 3164.2 | 3311.1 | 4409.9 | 6489.7 | 9981.7 | 14720.8 | 20619.2 | 23198.5 | 23245.7 | 23808.2 | 17276.6 |
| 67.5° | 1752.0 | 1822.8 | 2345.9 | 3493.3 | 5835.3 | 10410.5 | 20097.2 | 26390.2 | 26434.8 | 25754.2 | 18973.4 |
| 69° | 1370.3 | 1430.7 | 1842.4 | 2633.1 | 3956.3 | 7482.4 | 18186.6 | 27325.2 | 27457.6 | 26311.6 | 19033.8 |
| 70° | 1163.1 | 1222.2 | 1586.7 | 2224.0 | 3181.2 | 5781.6 | 16188.2 | 27093.0 | 27233.4 | 26259.1 | 18583.9 |
| 72.5° | 712.1 | 746.2 | 1056.9 | 1565.7 | 2132.2 | 2908.5 | 9983.0 | 22912.6 | 23150.0 | 24087.6 | 15971.8 |
| 75° | 479.9 | 498.3 | 660.9 | 1080.5 | 1525.0 | 1497.6 | 5186.2 | 16150.1 | 16664.2 | 18737.3 | 11796.6 |
| 77.5° | 343.6 | 360.6 | 443.2 | 698.9 | 1068.8 | 988.7 | 2348.5 | 10036.8 | 10147.0 | 11238.0 | 6433.3 |
| 80° | 195.3 | 211.1 | 313.4 | 415.7 | 725.1 | 659.6 | 933.7 | 4794.2 | 4849.3 | 4819.1 | 2148.0 |
| 82.5° | 102.3 | 115.4 | 171.8 | 274.1 | 465.5 | 431.4 | 388.2 | 1605.1 | 1612.9 | 1341.5 | 470.8 |
| 85° | 19.7 | 23.6 | 85.2 | 187.5 | 240.0 | 187.5 | 158.6 | 376.3 | 384.2 | 339.6 | 116.7 |
| 87.5° | 0.0 | 1.3 | 34.1 | 41.9 | 47.2 | 48.5 | 51.1 | 73.4 | 78.7 | 106.2 | 31.5 |
| 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-735-U-T2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3141.9 | 3141.9 | 3141.9 | 3141.9 | 3141.9 | 3141.9 | 3141.9 | 3141.9 | 3141.9 | 3141.9 | 3141.9 |
| 2.5° | 3156.4 | 3109.1 | 3018.7 | 2913.8 | 2832.5 | 2752.4 | 2689.5 | 2624.0 | 2600.3 | 2588.5 | 2587.2 |
| 5° | 3187.8 | 3088.2 | 2896.7 | 2700.0 | 2538.7 | 2386.6 | 2277.7 | 2174.1 | 2125.6 | 2103.3 | 2094.2 |
| 7.5° | 3240.3 | 3080.3 | 2772.1 | 2471.9 | 2239.7 | 2049.6 | 1898.8 | 1786.1 | 1729.6 | 1706.0 | 1696.8 |
| 10° | 3301.9 | 3069.8 | 2626.6 | 2230.6 | 1934.2 | 1737.5 | 1588.0 | 1476.5 | 1414.9 | 1388.7 | 1375.5 |
| 12.5° | 3374.0 | 3051.5 | 2458.7 | 1986.6 | 1673.2 | 1476.5 | 1295.6 | 1157.9 | 1087.1 | 1056.9 | 1042.5 |
| 15° | 3463.2 | 3033.0 | 2283.0 | 1757.2 | 1443.7 | 1203.7 | 1005.8 | 912.6 | 898.3 | 893.0 | 894.3 |
| 17.5° | 3551.1 | 3004.2 | 2091.5 | 1530.3 | 1202.4 | 940.2 | 839.2 | 834.0 | 836.6 | 836.6 | 836.6 |
| 20° | 3629.7 | 2938.7 | 1883.0 | 1336.2 | 973.0 | 793.3 | 772.3 | 763.2 | 756.6 | 751.4 | 744.9 |
| 22.5° | 3691.4 | 2850.8 | 1682.4 | 1143.5 | 794.7 | 726.5 | 693.7 | 664.8 | 641.3 | 625.5 | 617.6 |
| 25° | 3733.3 | 2734.1 | 1498.9 | 958.6 | 714.7 | 660.9 | 601.9 | 553.3 | 516.6 | 494.4 | 485.1 |
| 27.5° | 3764.8 | 2608.2 | 1334.9 | 802.5 | 659.6 | 584.8 | 507.5 | 449.8 | 411.7 | 392.1 | 384.2 |
| 30° | 3787.1 | 2465.2 | 1190.7 | 705.5 | 598.0 | 504.9 | 422.3 | 365.8 | 338.3 | 327.8 | 322.6 |
| 32.5° | 3808.1 | 2306.6 | 1054.3 | 659.6 | 540.3 | 431.4 | 354.1 | 310.8 | 293.7 | 280.6 | 276.7 |
| 35° | 3860.5 | 2159.7 | 924.5 | 611.1 | 481.2 | 368.5 | 304.2 | 272.8 | 255.7 | 247.9 | 245.2 |
| 37.5° | 3985.1 | 2050.9 | 799.9 | 561.3 | 422.3 | 318.7 | 266.2 | 243.9 | 228.1 | 220.3 | 217.7 |
| 40° | 4185.7 | 1995.8 | 695.0 | 507.5 | 364.5 | 280.6 | 241.3 | 220.3 | 203.3 | 191.4 | 188.8 |
| 42.5° | 4480.7 | 2003.7 | 621.5 | 453.8 | 318.7 | 250.5 | 217.7 | 192.7 | 174.4 | 164.0 | 161.3 |
| 45° | 4838.7 | 2061.4 | 570.4 | 401.2 | 280.6 | 226.8 | 191.4 | 165.3 | 148.2 | 139.0 | 136.4 |
| 47.5° | 5226.9 | 2154.5 | 528.5 | 354.1 | 250.5 | 204.6 | 165.3 | 137.7 | 123.2 | 115.4 | 114.1 |
| 50° | 5636.0 | 2244.9 | 485.1 | 308.2 | 224.2 | 182.3 | 139.0 | 114.1 | 102.3 | 95.8 | 93.1 |
| 52.5° | 6050.4 | 2349.9 | 445.8 | 266.2 | 202.0 | 156.0 | 115.4 | 93.1 | 83.9 | 78.7 | 76.0 |
| 55° | 6496.2 | 2428.5 | 407.8 | 233.4 | 179.7 | 132.5 | 95.8 | 77.4 | 69.5 | 63.0 | 61.7 |
| 57.5° | 7020.8 | 2550.5 | 368.5 | 202.0 | 153.4 | 110.1 | 78.7 | 61.7 | 55.1 | 48.5 | 47.2 |
| 60° | 7728.9 | 2693.5 | 326.5 | 178.3 | 125.9 | 90.5 | 64.3 | 49.8 | 41.9 | 36.7 | 35.4 |
| 62.5° | 8662.6 | 2852.1 | 274.1 | 156.0 | 102.3 | 73.4 | 51.1 | 39.3 | 30.2 | 23.6 | 23.6 |
| 65° | 9846.6 | 3110.4 | 224.2 | 131.2 | 83.9 | 60.4 | 39.3 | 28.9 | 17.0 | 10.5 | 10.5 |
| 67.5° | 10537.8 | 3155.1 | 181.0 | 107.5 | 68.2 | 51.1 | 32.8 | 19.7 | 5.2 | 1.3 | 0.0 |
| 69° | 10316.1 | 2896.7 | 153.4 | 91.8 | 59.0 | 48.5 | 30.2 | 14.4 | 2.6 | 0.0 | 0.0 |
| 70° | 9899.1 | 2648.9 | 135.1 | 81.3 | 53.8 | 45.9 | 28.9 | 10.5 | 2.6 | 0.0 | 0.0 |
| 72.5° | 8180.0 | 1885.6 | 102.3 | 60.4 | 39.3 | 40.6 | 26.3 | 6.5 | 2.6 | 0.0 | 0.0 |
| 75° | 5958.6 | 1146.1 | 73.4 | 41.9 | 24.9 | 30.2 | 18.4 | 2.6 | 1.3 | 0.0 | 0.0 |
| 77.5° | 3315.0 | 540.3 | 45.9 | 23.6 | 15.7 | 18.4 | 9.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 1076.6 | 146.9 | 21.0 | 13.1 | 9.2 | 10.5 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 199.4 | 41.9 | 11.8 | 6.5 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 43.3 | 17.0 | 6.5 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 14.4 | 5.2 | 1.3 | 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)