

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: P382869

Luminaire Tested: **GAN-SA2B-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11347.2 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

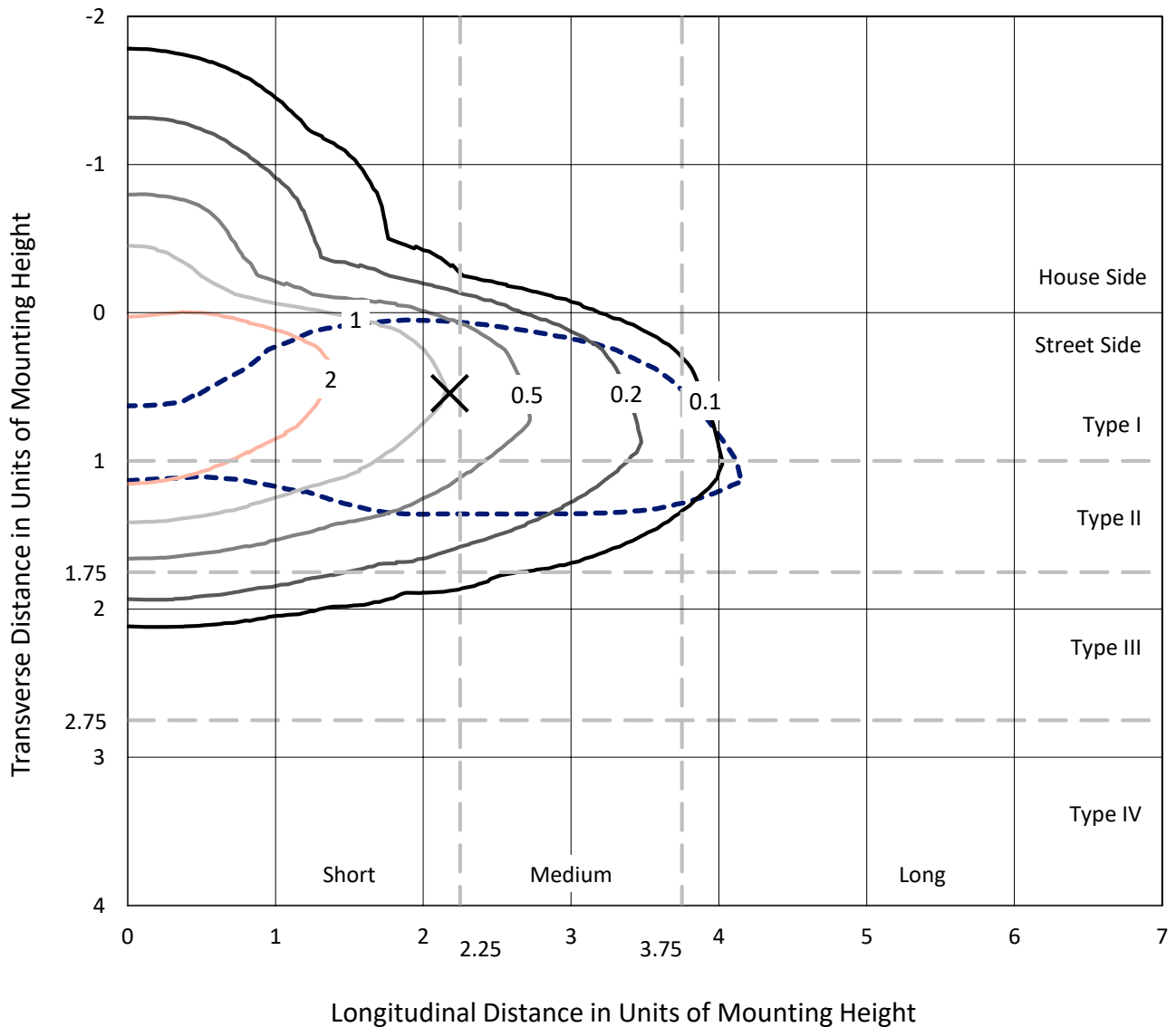
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

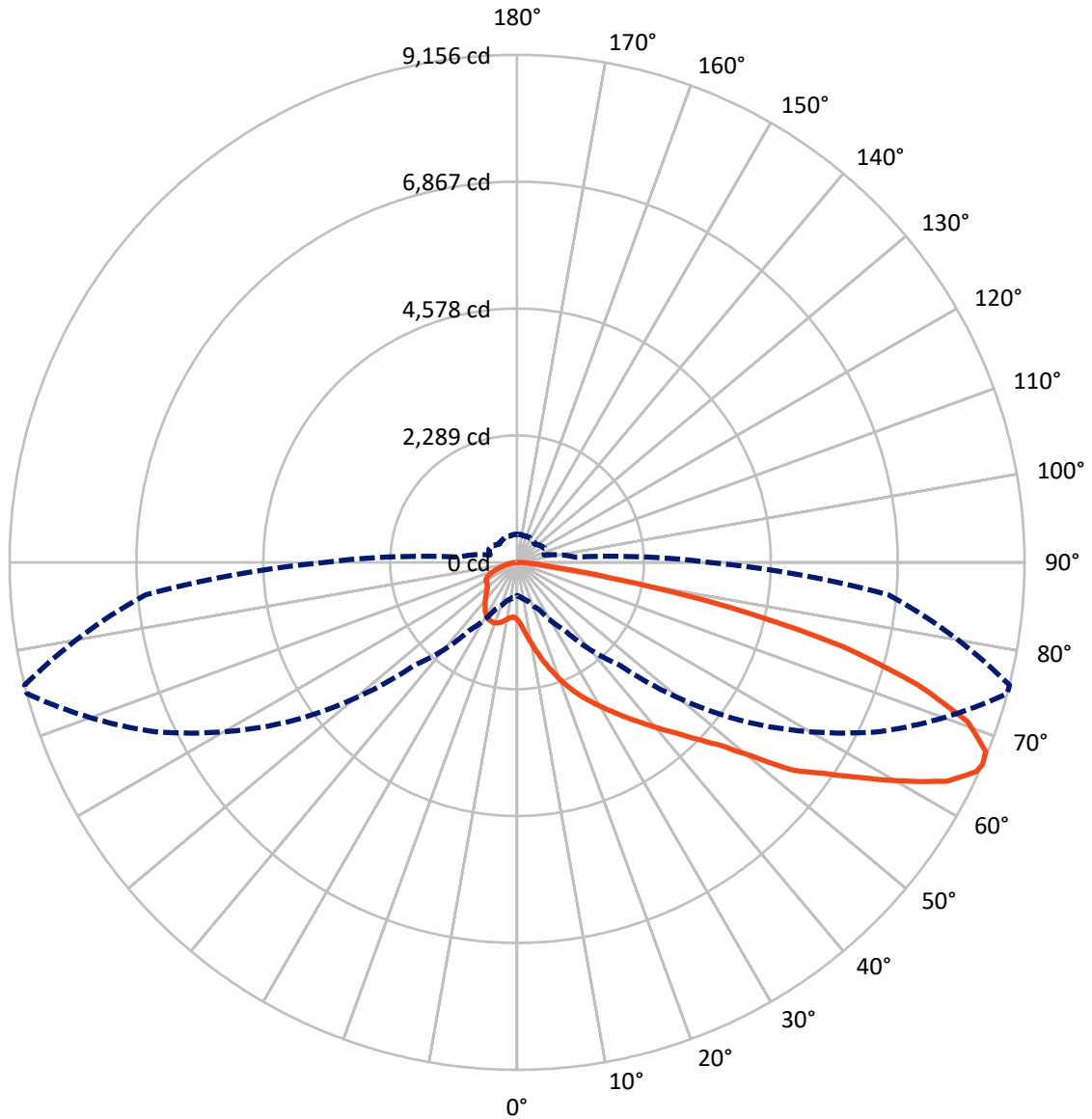
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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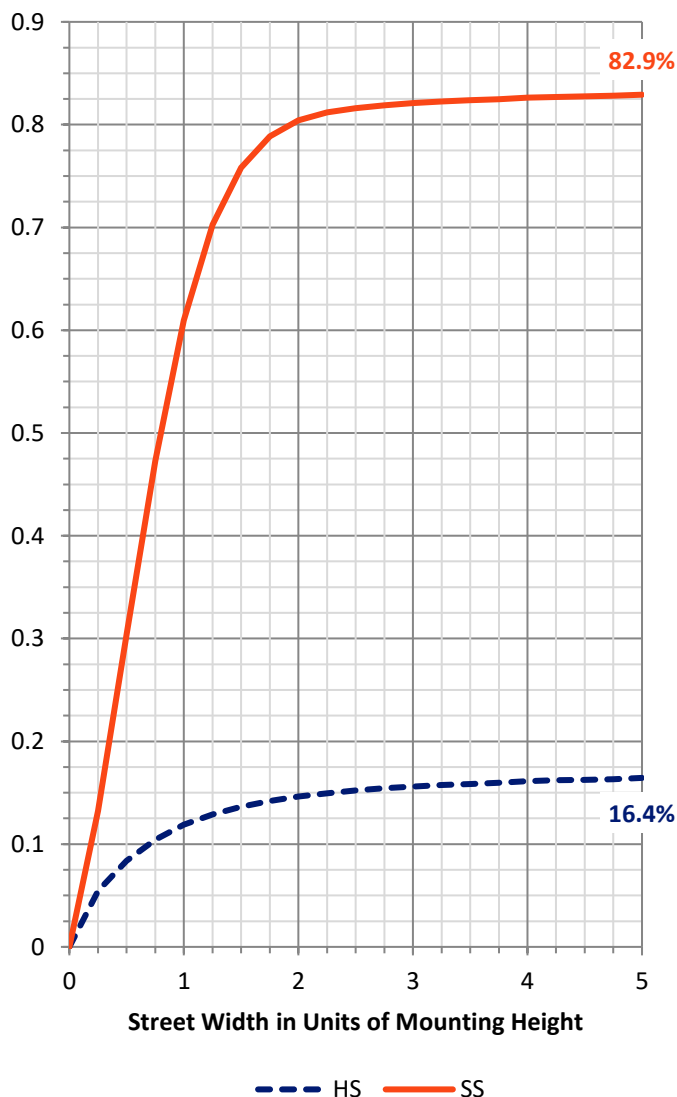
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1909.3 | 0.0 | 1909.3 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 9437.8 | 0.0 | 9437.8 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 11347.2 | 0.0 | 11347.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 125.3 | 1.1 |
| 10°-20° | 494.8 | 4.4 |
| 20°-30° | 961.6 | 8.5 |
| 30°-40° | 1569.6 | 13.8 |
| 40°-50° | 2144.4 | 18.9 |
| 50°-60° | 2497.8 | 22.0 |
| 60°-70° | 2239.3 | 19.7 |
| 70°-80° | 1131.7 | 10.0 |
| 80°-90° | 182.7 | 1.6 |
| 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° | 11347.2 | 100.0 |
| 0°-180° | 11347.2 | 100.0 |

Coefficient of Utilization

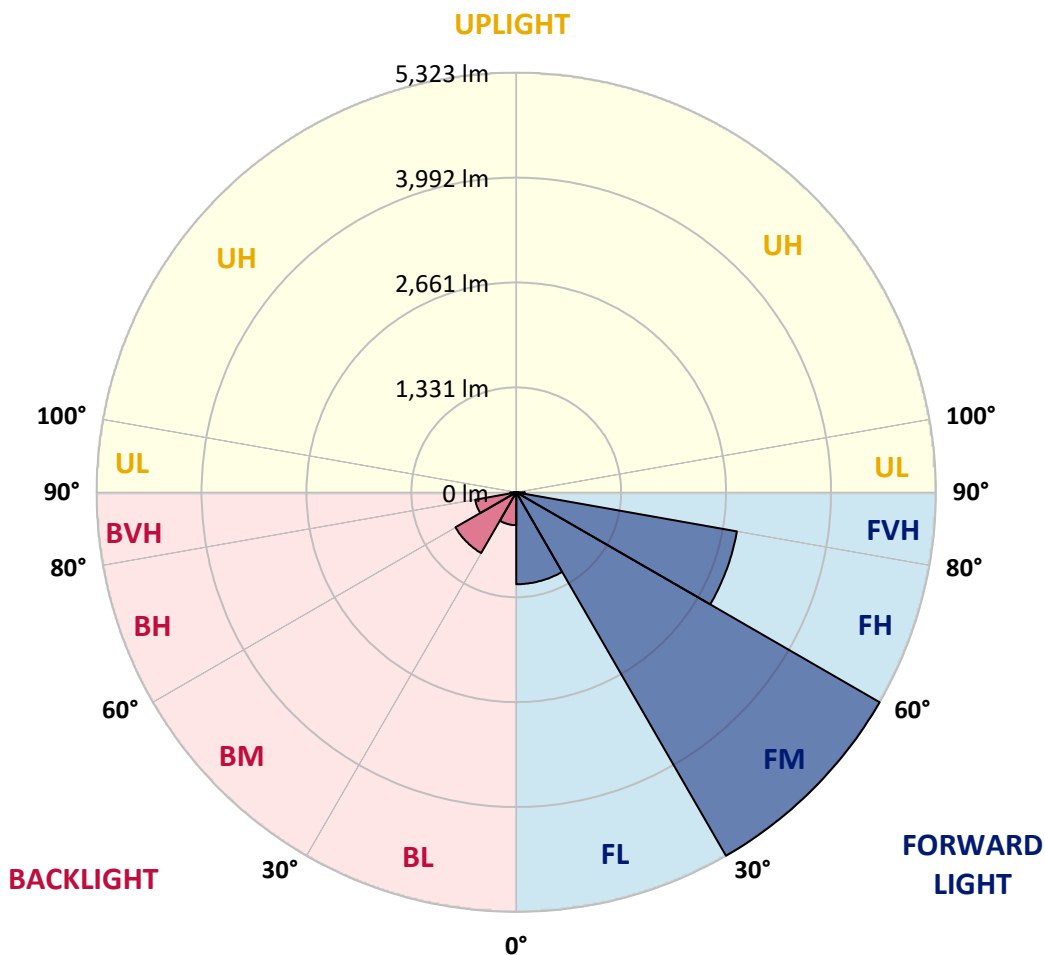


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1165.3 | 10.3 | | | |
| FM (30°-60°) | 5322.6 | 46.9 | | | |
| FH (60°-80°) | 2842.0 | 25.0 | | | G2/5000 |
| FVH (80°-90°) | 107.9 | 1.0 | | | G2/225 |
| BL (0°-30°) | 416.4 | 3.7 | B1/500 | | |
| BM (30°-60°) | 889.1 | 7.8 | B1/1000 | | |
| BH (60°-80°) | 529.0 | 4.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 74.8 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1036.3 | 1036.3 | 1036.3 | 1036.3 | 1036.3 | 1036.3 | 1036.3 | 1036.3 | 1036.3 | 1036.3 | 1036.3 |
| 2.5° | 1375.6 | 1354.8 | 1352.9 | 1322.5 | 1315.5 | 1257.4 | 1214.6 | 1169.9 | 1119.1 | 1109.1 | 1069.0 |
| 5° | 1767.1 | 1765.1 | 1738.5 | 1688.8 | 1650.0 | 1550.6 | 1452.3 | 1348.3 | 1234.3 | 1215.8 | 1125.6 |
| 7.5° | 2119.1 | 2116.0 | 2095.6 | 2042.0 | 1985.9 | 1863.7 | 1723.5 | 1564.0 | 1379.1 | 1351.8 | 1202.3 |
| 10° | 2386.4 | 2385.3 | 2378.3 | 2339.1 | 2291.3 | 2174.2 | 2019.3 | 1801.7 | 1547.5 | 1510.0 | 1298.2 |
| 12.5° | 2593.0 | 2595.3 | 2599.9 | 2586.0 | 2563.2 | 2463.5 | 2304.8 | 2053.6 | 1727.0 | 1690.0 | 1404.9 |
| 15° | 2732.8 | 2739.7 | 2763.6 | 2783.3 | 2795.2 | 2733.9 | 2580.2 | 2311.4 | 1928.0 | 1883.8 | 1523.2 |
| 17.5° | 2803.3 | 2810.9 | 2852.2 | 2911.6 | 2966.2 | 2960.1 | 2838.0 | 2557.1 | 2121.0 | 2078.3 | 1650.3 |
| 20° | 2864.1 | 2869.9 | 2916.1 | 2987.4 | 3084.1 | 3126.8 | 3058.3 | 2793.6 | 2332.5 | 2281.6 | 1785.1 |
| 22.5° | 3040.6 | 3047.9 | 3061.7 | 3102.2 | 3187.8 | 3266.3 | 3233.2 | 3017.5 | 2526.3 | 2478.9 | 1913.0 |
| 25° | 3381.1 | 3390.0 | 3359.9 | 3325.6 | 3341.8 | 3396.5 | 3402.7 | 3221.7 | 2722.7 | 2669.3 | 2050.5 |
| 27.5° | 3791.4 | 3804.1 | 3752.8 | 3664.6 | 3587.6 | 3566.4 | 3559.1 | 3388.8 | 2910.3 | 2848.4 | 2186.5 |
| 30° | 4193.2 | 4215.2 | 4148.5 | 4034.1 | 3892.7 | 3793.3 | 3719.8 | 3552.5 | 3095.3 | 3035.9 | 2314.8 |
| 32.5° | 4585.7 | 4576.9 | 4480.2 | 4368.4 | 4202.8 | 4078.4 | 3900.4 | 3728.2 | 3303.3 | 3235.1 | 2442.3 |
| 35° | 4854.6 | 4857.6 | 4767.9 | 4635.4 | 4477.5 | 4381.9 | 4142.3 | 3917.7 | 3515.6 | 3452.8 | 2587.2 |
| 37.5° | 5083.5 | 5069.2 | 4967.5 | 4843.8 | 4707.9 | 4667.0 | 4425.5 | 4126.6 | 3745.6 | 3677.0 | 2741.3 |
| 40° | 5159.7 | 5143.2 | 5076.5 | 4987.5 | 4878.5 | 4875.0 | 4737.9 | 4363.1 | 4005.6 | 3937.7 | 2915.0 |
| 42.5° | 5113.5 | 5092.3 | 5064.9 | 5040.7 | 5007.2 | 5022.5 | 5031.4 | 4640.4 | 4291.4 | 4215.5 | 3116.1 |
| 45° | 4942.8 | 4910.8 | 4930.1 | 4982.8 | 5055.7 | 5142.7 | 5296.4 | 4947.4 | 4611.5 | 4548.0 | 3352.3 |
| 47.5° | 4680.5 | 4651.6 | 4711.7 | 4824.6 | 5022.5 | 5242.9 | 5547.3 | 5286.4 | 4993.7 | 4930.5 | 3688.6 |
| 50° | 4311.4 | 4319.9 | 4405.8 | 4611.2 | 4910.5 | 5289.1 | 5856.2 | 5735.3 | 5549.1 | 5490.3 | 4147.3 |
| 52.5° | 3705.9 | 3707.4 | 3949.3 | 4286.4 | 4711.7 | 5265.3 | 6027.6 | 6308.8 | 6307.7 | 6236.4 | 4584.1 |
| 55° | 3143.4 | 3177.7 | 3369.1 | 3817.2 | 4389.6 | 5169.7 | 6147.4 | 6587.7 | 6805.8 | 6722.1 | 4991.3 |
| 57.5° | 2594.1 | 2614.1 | 2795.6 | 3245.5 | 3930.0 | 4915.0 | 6270.3 | 6922.5 | 7379.7 | 7327.0 | 5497.5 |
| 60° | 1969.3 | 2000.1 | 2187.6 | 2603.3 | 3342.2 | 4463.2 | 6281.9 | 7271.8 | 8065.8 | 8012.7 | 6062.7 |
| 62.5° | 1278.2 | 1331.4 | 1507.0 | 1896.4 | 2631.1 | 3813.3 | 6013.7 | 7500.4 | 8716.1 | 8697.2 | 6564.2 |
| 65° | 734.6 | 774.7 | 896.8 | 1197.3 | 1815.2 | 2997.4 | 5376.1 | 7412.5 | 9116.3 | 9105.5 | 6751.9 |
| 66° | 600.2 | 625.3 | 718.8 | 935.7 | 1497.7 | 2632.3 | 5005.6 | 7227.2 | 9156.0 | 9156.4 | 6730.2 |
| 67.5° | 480.0 | 491.2 | 533.1 | 669.9 | 1105.2 | 2086.4 | 4343.4 | 6818.5 | 9106.7 | 9120.2 | 6591.2 |
| 70° | 397.2 | 403.0 | 416.0 | 449.2 | 603.3 | 1258.1 | 3083.0 | 5756.4 | 8611.7 | 8622.1 | 6048.4 |
| 72.5° | 356.3 | 359.8 | 364.8 | 369.5 | 425.7 | 703.0 | 1882.9 | 4605.0 | 7550.4 | 7563.9 | 5221.3 |
| 75° | 322.8 | 324.7 | 324.0 | 324.4 | 357.1 | 448.0 | 973.1 | 3438.2 | 6105.0 | 6078.1 | 3999.8 |
| 77.5° | 283.6 | 285.4 | 281.6 | 282.4 | 315.9 | 344.4 | 484.2 | 2406.8 | 4120.0 | 3929.6 | 2253.6 |
| 80° | 239.6 | 241.2 | 239.6 | 242.3 | 275.1 | 260.0 | 281.6 | 1354.1 | 1821.7 | 1723.1 | 801.2 |
| 82.5° | 181.1 | 187.6 | 192.3 | 203.0 | 226.6 | 184.9 | 188.4 | 527.3 | 554.7 | 528.2 | 245.7 |
| 85° | 79.4 | 96.7 | 144.9 | 155.3 | 170.3 | 110.9 | 123.6 | 215.0 | 225.7 | 218.8 | 89.3 |
| 87.5° | 20.8 | 22.7 | 71.6 | 90.2 | 94.4 | 50.1 | 64.4 | 97.8 | 103.2 | 97.8 | 29.6 |
| 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-SA2B-735-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1036.3 | 1036.3 | 1036.3 | 1036.3 | 1036.3 | 1036.3 | 1036.3 | 1036.3 | 1036.3 | 1036.3 | 1036.3 |
| 2.5° | 1047.8 | 1028.9 | 995.1 | 965.0 | 942.3 | 926.9 | 911.4 | 903.7 | 899.1 | 894.5 | 895.2 |
| 5° | 1081.3 | 1043.1 | 985.0 | 943.8 | 920.6 | 906.0 | 898.4 | 895.2 | 893.4 | 888.7 | 888.7 |
| 7.5° | 1131.8 | 1077.9 | 997.7 | 955.4 | 937.2 | 926.1 | 921.5 | 919.9 | 917.6 | 912.2 | 913.0 |
| 10° | 1195.4 | 1119.8 | 1024.3 | 983.1 | 966.6 | 954.2 | 947.7 | 945.3 | 941.1 | 934.9 | 935.7 |
| 12.5° | 1270.1 | 1171.9 | 1059.4 | 1016.2 | 996.2 | 979.6 | 968.8 | 962.3 | 954.9 | 946.9 | 947.3 |
| 15° | 1351.8 | 1228.5 | 1097.1 | 1045.8 | 1018.6 | 995.5 | 978.1 | 966.9 | 955.4 | 945.3 | 945.0 |
| 17.5° | 1434.6 | 1283.2 | 1126.1 | 1062.1 | 1025.1 | 994.6 | 971.1 | 953.8 | 939.6 | 927.3 | 926.1 |
| 20° | 1523.9 | 1332.5 | 1142.2 | 1060.6 | 1012.8 | 976.5 | 945.3 | 923.7 | 908.0 | 895.7 | 893.7 |
| 22.5° | 1614.8 | 1378.7 | 1144.9 | 1044.7 | 985.4 | 941.1 | 908.4 | 884.5 | 868.3 | 855.6 | 851.0 |
| 25° | 1698.0 | 1414.6 | 1133.7 | 1014.3 | 947.3 | 899.5 | 867.6 | 843.2 | 830.2 | 815.1 | 810.5 |
| 27.5° | 1773.9 | 1439.6 | 1111.3 | 975.4 | 904.5 | 857.5 | 827.5 | 806.6 | 792.4 | 780.8 | 777.0 |
| 30° | 1842.1 | 1453.0 | 1074.8 | 929.1 | 860.6 | 817.8 | 792.4 | 778.1 | 765.8 | 751.2 | 748.5 |
| 32.5° | 1906.9 | 1453.0 | 1027.8 | 878.7 | 817.1 | 782.8 | 767.8 | 758.9 | 745.1 | 730.8 | 726.9 |
| 35° | 1971.6 | 1444.2 | 972.3 | 825.9 | 777.0 | 757.7 | 757.0 | 746.5 | 725.4 | 706.1 | 701.1 |
| 37.5° | 2039.7 | 1426.1 | 909.9 | 776.6 | 744.2 | 746.5 | 753.2 | 730.0 | 700.0 | 672.6 | 665.3 |
| 40° | 2116.8 | 1401.0 | 845.2 | 733.9 | 716.9 | 741.5 | 742.7 | 706.1 | 647.5 | 622.6 | 615.9 |
| 42.5° | 2207.3 | 1376.0 | 785.1 | 696.1 | 695.3 | 726.5 | 723.1 | 654.5 | 619.5 | 606.7 | 603.3 |
| 45° | 2326.4 | 1361.7 | 728.1 | 660.3 | 678.4 | 702.3 | 689.5 | 626.0 | 611.4 | 604.0 | 600.9 |
| 47.5° | 2514.0 | 1369.1 | 675.7 | 631.8 | 661.4 | 678.0 | 627.1 | 614.4 | 604.0 | 595.2 | 592.1 |
| 50° | 2749.0 | 1364.8 | 633.3 | 612.1 | 642.2 | 652.5 | 599.0 | 599.5 | 594.0 | 584.0 | 579.4 |
| 52.5° | 2925.8 | 1331.7 | 606.0 | 600.9 | 625.3 | 607.5 | 581.3 | 584.7 | 582.0 | 567.4 | 562.5 |
| 55° | 3096.5 | 1303.2 | 592.1 | 596.7 | 612.9 | 551.3 | 560.5 | 569.0 | 566.3 | 552.0 | 549.7 |
| 57.5° | 3308.7 | 1297.8 | 583.6 | 597.9 | 602.5 | 523.2 | 540.5 | 551.7 | 549.7 | 543.6 | 542.4 |
| 60° | 3568.8 | 1299.3 | 575.9 | 599.8 | 591.0 | 502.3 | 521.6 | 535.8 | 537.0 | 535.8 | 535.1 |
| 62.5° | 3711.7 | 1257.4 | 556.7 | 594.4 | 570.5 | 484.2 | 501.9 | 522.8 | 523.2 | 525.5 | 525.0 |
| 65° | 3590.3 | 1131.8 | 520.8 | 575.5 | 536.2 | 469.2 | 485.0 | 507.7 | 501.9 | 512.4 | 512.4 |
| 66° | 3472.4 | 1059.4 | 503.1 | 563.2 | 521.6 | 463.4 | 479.6 | 500.1 | 492.7 | 506.9 | 506.9 |
| 67.5° | 3231.6 | 937.2 | 471.1 | 537.0 | 500.8 | 455.3 | 473.4 | 487.3 | 477.3 | 498.5 | 497.0 |
| 70° | 2791.8 | 725.0 | 406.8 | 477.7 | 466.5 | 443.4 | 464.9 | 461.9 | 447.2 | 479.6 | 473.4 |
| 72.5° | 2353.7 | 550.9 | 326.7 | 399.8 | 414.5 | 428.3 | 453.0 | 429.5 | 411.0 | 433.7 | 420.3 |
| 75° | 1826.4 | 414.1 | 258.1 | 310.9 | 350.2 | 404.9 | 438.8 | 392.2 | 365.5 | 363.3 | 355.9 |
| 77.5° | 987.3 | 284.3 | 204.6 | 237.3 | 278.2 | 375.6 | 429.2 | 352.1 | 312.1 | 302.8 | 297.0 |
| 80° | 391.0 | 184.9 | 148.7 | 179.9 | 194.5 | 333.2 | 406.1 | 305.5 | 257.3 | 248.1 | 239.2 |
| 82.5° | 161.4 | 109.4 | 95.9 | 120.5 | 126.8 | 285.1 | 364.4 | 250.4 | 198.8 | 275.1 | 292.0 |
| 85° | 69.3 | 60.1 | 57.0 | 62.4 | 71.6 | 199.9 | 290.1 | 191.1 | 214.5 | 191.4 | 152.1 |
| 87.5° | 20.8 | 25.4 | 24.3 | 23.8 | 26.2 | 47.8 | 154.5 | 106.3 | 157.5 | 59.7 | 44.7 |
| 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)