

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: P383498

Luminaire Tested: **GAN-SA8A-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35694.1 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

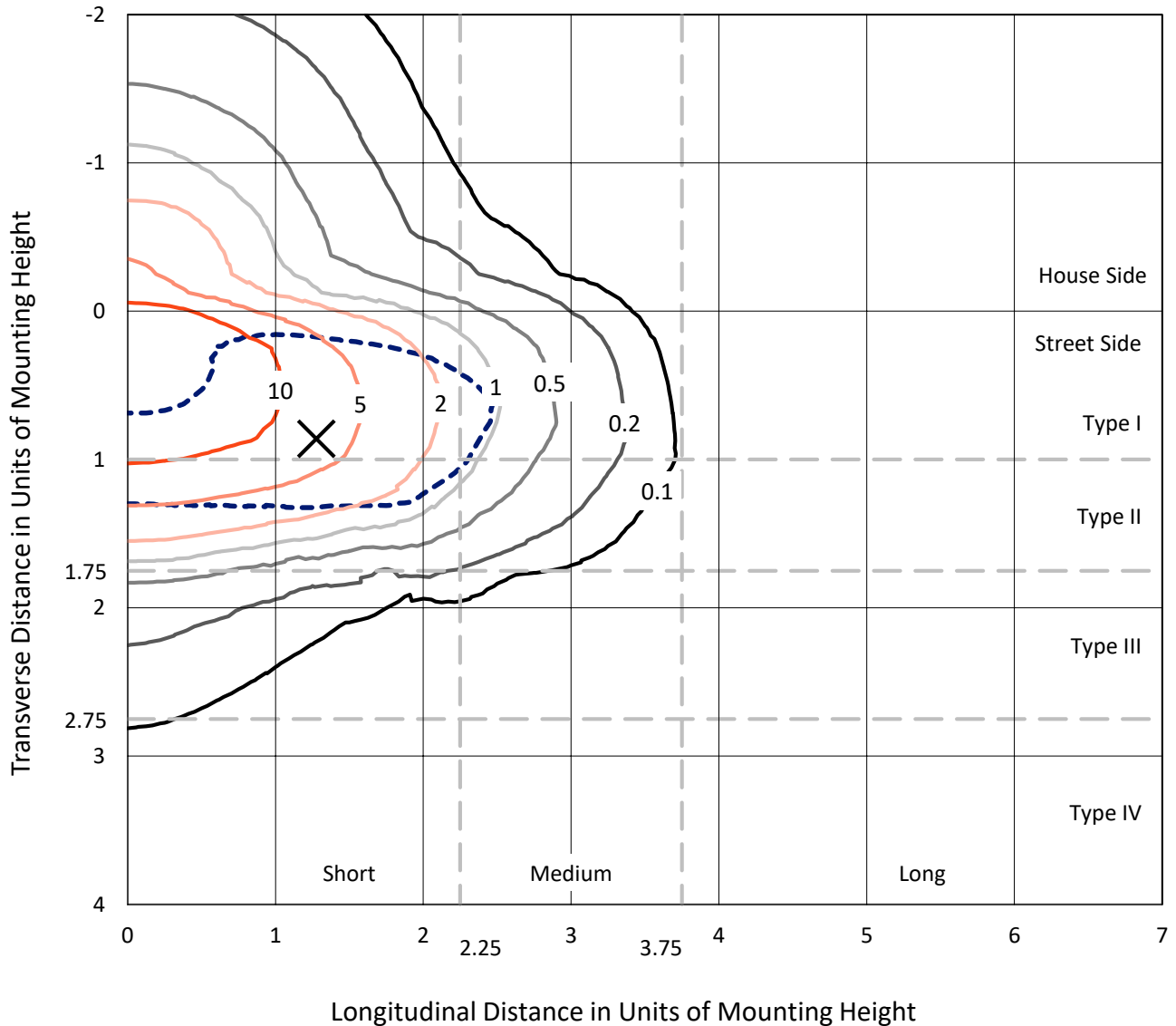
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383498
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Iso-Footcandle Lines of Horizontal Illumination

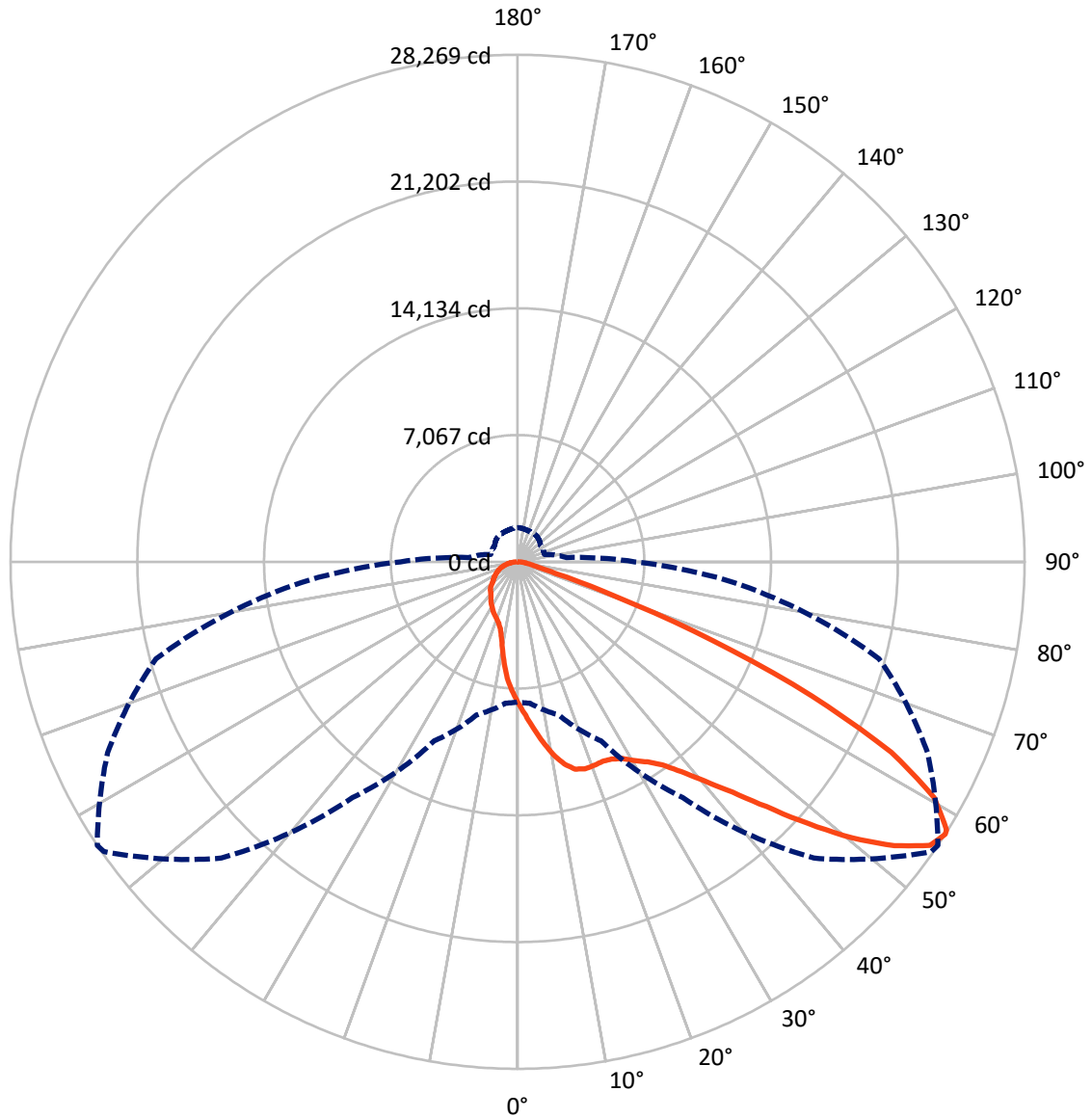
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

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CATALOG NUMBER: GAN-SA8A-735-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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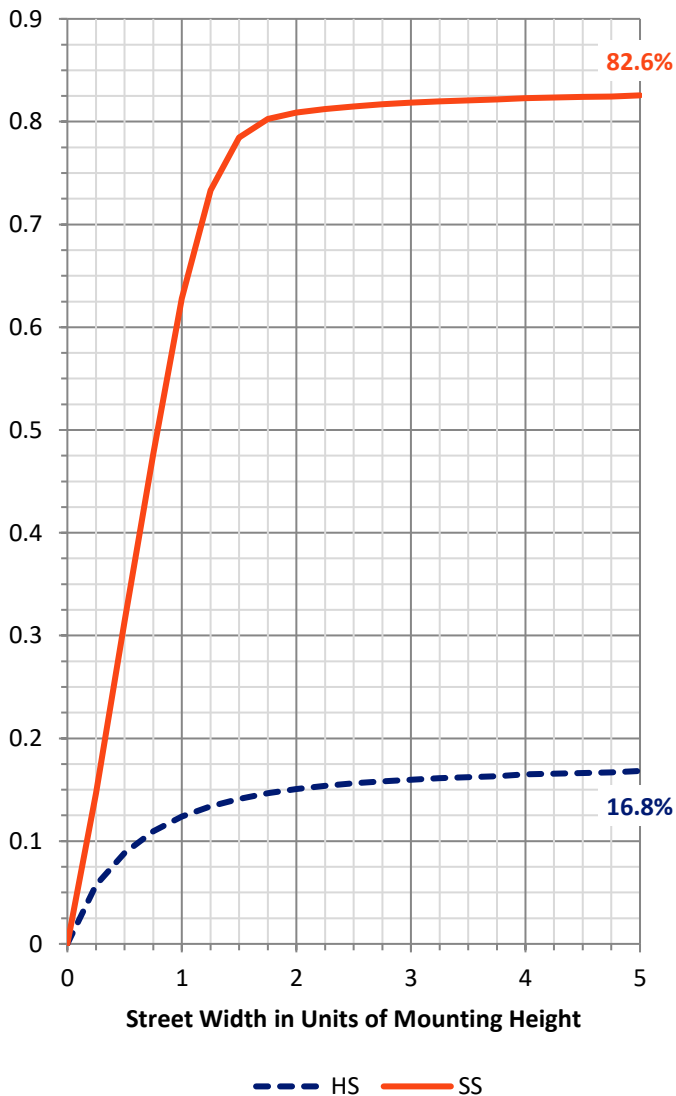
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6152.9 | 0.0 | 6152.9 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 29541.2 | 0.0 | 29541.2 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 35694.1 | 0.0 | 35694.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 756.3 | 2.1 |
| 10°-20° | 2138.1 | 6.0 |
| 20°-30° | 3482.6 | 9.8 |
| 30°-40° | 5206.2 | 14.6 |
| 40°-50° | 7896.6 | 22.1 |
| 50°-60° | 8850.7 | 24.8 |
| 60°-70° | 5227.6 | 14.6 |
| 70°-80° | 1712.8 | 4.8 |
| 80°-90° | 423.2 | 1.2 |
| 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° | 35694.1 | 100.0 |
| 0°-180° | 35694.1 | 100.0 |

Coefficient of Utilization

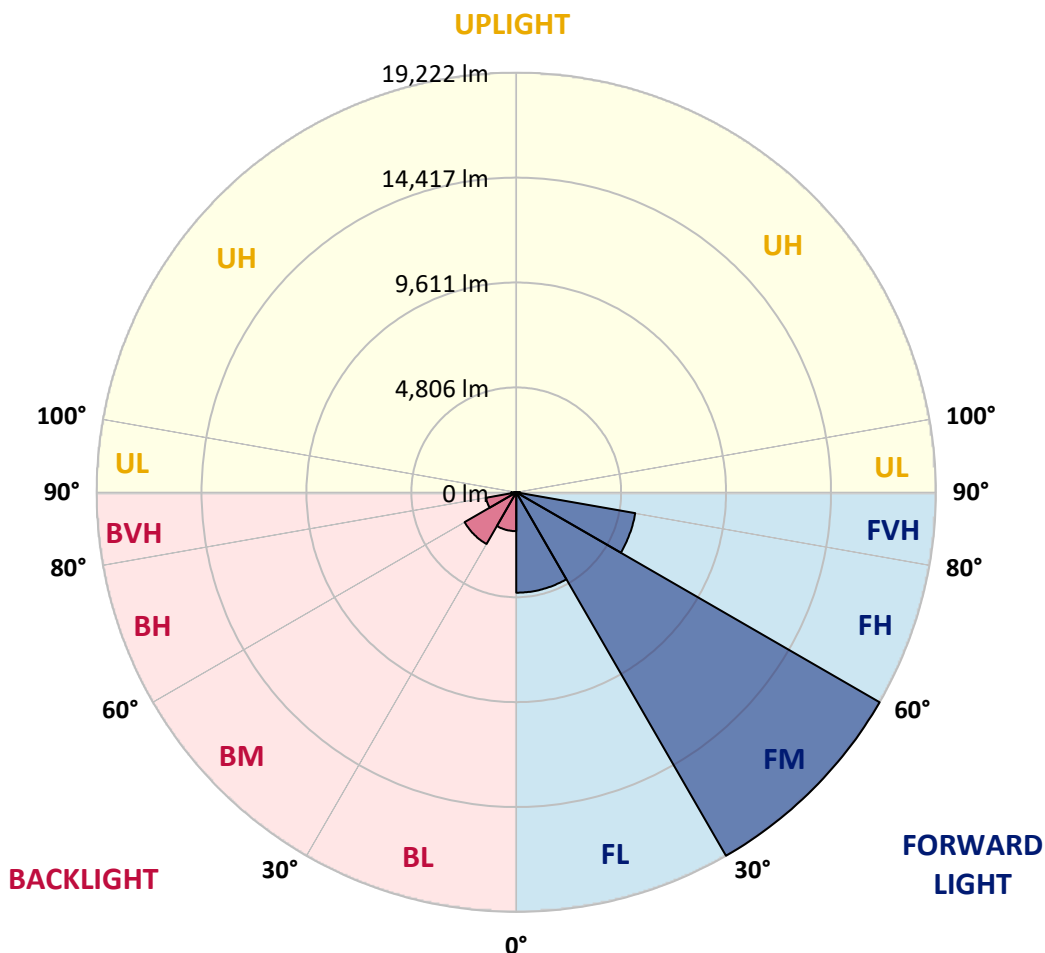


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4597.9 | 12.9 | | | |
| FM (30°-60°) | 19222.5 | 53.9 | | | |
| FH (60°-80°) | 5534.5 | 15.5 | | | G3/7500 |
| FVH (80°-90°) | 186.3 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1779.1 | 5.0 | B3/2500 | | |
| BM (30°-60°) | 2731.1 | 7.7 | B3/5000 | | |
| BH (60°-80°) | 1405.9 | 3.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 236.8 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7916.9 | 7916.9 | 7916.9 | 7916.9 | 7916.9 | 7916.9 | 7916.9 | 7916.9 | 7916.9 | 7916.9 | 7916.9 |
| 2.5° | 9090.9 | 9174.3 | 9137.6 | 9009.9 | 8911.8 | 8773.2 | 8618.7 | 8572.0 | 8408.9 | 8226.1 | 8006.6 |
| 5° | 10529.8 | 10488.1 | 10428.0 | 10229.2 | 10019.5 | 9775.4 | 9387.8 | 9326.5 | 8963.4 | 8549.9 | 8113.2 |
| 7.5° | 11349.2 | 11345.6 | 11310.0 | 11193.5 | 11002.0 | 10683.2 | 10215.8 | 10143.4 | 9595.1 | 8930.2 | 8253.1 |
| 10° | 11230.3 | 11221.7 | 11280.6 | 11402.0 | 11459.6 | 11393.4 | 10999.6 | 10927.2 | 10253.8 | 9351.0 | 8415.0 |
| 12.5° | 10554.3 | 10559.3 | 10653.7 | 10908.9 | 11256.0 | 11673.0 | 11609.3 | 11573.7 | 10937.1 | 9826.9 | 8611.3 |
| 15° | 10028.1 | 10039.1 | 10114.0 | 10336.0 | 10745.7 | 11502.6 | 11979.7 | 11992.0 | 11598.2 | 10351.9 | 8840.7 |
| 17.5° | 9797.5 | 9820.7 | 9855.1 | 10011.0 | 10386.3 | 11162.7 | 12068.1 | 12134.3 | 12177.3 | 10896.6 | 9061.4 |
| 20° | 9871.1 | 9893.1 | 9903.0 | 10002.3 | 10310.3 | 10956.7 | 12006.7 | 12125.7 | 12621.3 | 11409.3 | 9282.3 |
| 22.5° | 10201.1 | 10214.5 | 10220.7 | 10246.5 | 10485.7 | 11015.6 | 11966.3 | 12091.4 | 12942.7 | 11869.3 | 9449.2 |
| 25° | 10748.2 | 10738.3 | 10699.1 | 10665.9 | 10826.6 | 11248.6 | 12059.4 | 12178.5 | 13203.9 | 12286.5 | 9558.2 |
| 27.5° | 11403.2 | 11391.0 | 11314.9 | 11224.1 | 11316.1 | 11611.7 | 12328.1 | 12422.6 | 13438.2 | 12676.5 | 9613.5 |
| 30° | 12189.5 | 12157.6 | 12014.1 | 11906.1 | 11941.7 | 12156.4 | 12771.0 | 12856.8 | 13800.1 | 13119.4 | 9667.4 |
| 32.5° | 13098.5 | 13064.1 | 12856.8 | 12677.7 | 12677.7 | 12856.8 | 13227.3 | 13298.4 | 14106.8 | 13619.8 | 9754.5 |
| 35° | 14236.8 | 14193.9 | 13924.0 | 13623.5 | 13538.8 | 13629.7 | 13849.2 | 13899.5 | 14658.8 | 14250.3 | 9912.8 |
| 37.5° | 15578.8 | 15521.2 | 15171.6 | 14769.2 | 14584.0 | 14579.1 | 14737.4 | 14840.4 | 15540.8 | 15078.3 | 10181.4 |
| 40° | 16924.4 | 16884.0 | 16578.6 | 16262.1 | 15899.0 | 15782.5 | 16026.5 | 16058.5 | 16693.9 | 16106.3 | 10524.9 |
| 42.5° | 17964.7 | 17957.3 | 17900.9 | 17942.6 | 17570.9 | 17335.4 | 17526.8 | 17552.6 | 18102.1 | 17218.9 | 10890.4 |
| 45° | 18514.2 | 18526.5 | 18800.1 | 19406.1 | 19543.4 | 19371.7 | 19466.2 | 19473.5 | 19711.5 | 18341.3 | 11225.3 |
| 47.5° | 18073.9 | 18137.7 | 18829.6 | 20185.0 | 21309.9 | 21880.3 | 21723.2 | 21814.1 | 21271.8 | 19305.5 | 11487.8 |
| 50° | 16357.8 | 16436.2 | 17613.9 | 19837.9 | 22134.2 | 24307.9 | 24225.6 | 24204.9 | 22530.4 | 20012.1 | 11630.2 |
| 52.5° | 14231.9 | 14293.3 | 15264.8 | 18033.4 | 21529.5 | 25649.9 | 26404.3 | 26296.3 | 23649.1 | 20540.7 | 11657.1 |
| 55° | 10994.7 | 11090.4 | 12021.4 | 14431.9 | 19083.4 | 25137.1 | 28006.3 | 27909.4 | 24668.5 | 20817.9 | 11625.2 |
| 57° | 7816.4 | 7916.9 | 8841.9 | 11014.3 | 16053.5 | 23362.1 | 28165.8 | 28268.8 | 25219.3 | 20864.6 | 11660.8 |
| 57.5° | 6974.9 | 7077.9 | 7994.3 | 10104.1 | 15109.0 | 22720.5 | 28028.4 | 28200.1 | 25318.6 | 20857.3 | 11680.4 |
| 60° | 3512.0 | 3551.2 | 4135.1 | 5640.2 | 9550.9 | 18368.3 | 26236.2 | 26679.1 | 25408.2 | 20496.6 | 11765.1 |
| 62.5° | 2183.5 | 2155.2 | 2136.9 | 2598.1 | 4646.7 | 12180.9 | 22537.8 | 23390.3 | 23694.6 | 19623.1 | 11560.2 |
| 65° | 1919.7 | 1867.0 | 1664.6 | 1627.8 | 2052.2 | 5916.3 | 16972.3 | 18033.4 | 20032.9 | 18246.9 | 11072.0 |
| 67.5° | 1803.2 | 1751.7 | 1523.5 | 1386.1 | 1387.4 | 2345.5 | 10537.2 | 11732.0 | 15605.8 | 15919.9 | 9920.1 |
| 70° | 1683.0 | 1636.4 | 1422.9 | 1261.0 | 1181.3 | 1299.0 | 4847.9 | 5754.4 | 10172.9 | 12513.4 | 8291.1 |
| 72.5° | 1528.5 | 1496.5 | 1294.1 | 1127.4 | 1042.7 | 972.7 | 1855.9 | 2192.1 | 5889.2 | 8404.0 | 5758.0 |
| 75° | 1366.5 | 1337.1 | 1164.2 | 1004.7 | 901.6 | 765.5 | 1045.1 | 1126.1 | 2991.9 | 4299.5 | 2834.9 |
| 77.5° | 1188.7 | 1171.5 | 1035.3 | 888.1 | 805.9 | 634.2 | 739.6 | 779.0 | 1283.1 | 1843.7 | 1421.7 |
| 80° | 945.8 | 978.9 | 905.3 | 791.2 | 715.1 | 507.9 | 523.8 | 549.5 | 747.0 | 900.3 | 807.2 |
| 82.5° | 615.8 | 673.4 | 709.0 | 642.8 | 588.8 | 399.9 | 376.6 | 387.6 | 487.0 | 549.5 | 350.8 |
| 85° | 256.4 | 288.3 | 466.1 | 420.8 | 391.3 | 291.9 | 252.7 | 257.6 | 301.7 | 312.8 | 143.6 |
| 87.5° | 114.1 | 121.5 | 204.8 | 192.6 | 165.6 | 100.6 | 108.0 | 117.7 | 160.7 | 152.1 | 55.2 |
| 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-SA8A-735-U-AFL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7916.9 | 7916.9 | 7916.9 | 7916.9 | 7916.9 | 7916.9 | 7916.9 | 7916.9 | 7916.9 | 7916.9 | 7916.9 |
| 2.5° | 7924.3 | 7821.3 | 7644.7 | 7449.6 | 7290.2 | 7162.6 | 7033.7 | 6945.4 | 6842.4 | 6787.3 | 6759.0 |
| 5° | 7930.5 | 7728.1 | 7356.4 | 6974.9 | 6633.9 | 6322.3 | 6025.4 | 5797.3 | 5583.9 | 5468.6 | 5436.6 |
| 7.5° | 7956.3 | 7652.0 | 7051.0 | 6422.9 | 5817.0 | 5263.7 | 4836.8 | 4569.3 | 4376.8 | 4290.9 | 4266.4 |
| 10° | 7977.1 | 7562.5 | 6673.1 | 5743.3 | 4918.9 | 4358.4 | 4027.2 | 3877.6 | 3811.3 | 3800.2 | 3789.3 |
| 12.5° | 8026.1 | 7470.5 | 6275.6 | 5034.3 | 4221.0 | 3833.4 | 3718.1 | 3708.2 | 3726.7 | 3753.7 | 3753.7 |
| 15° | 8103.4 | 7379.7 | 5821.8 | 4425.9 | 3777.0 | 3640.8 | 3664.1 | 3718.1 | 3768.4 | 3810.0 | 3816.2 |
| 17.5° | 8159.9 | 7268.0 | 5333.6 | 3938.9 | 3540.2 | 3577.0 | 3660.4 | 3736.4 | 3788.0 | 3828.5 | 3832.1 |
| 20° | 8200.3 | 7095.1 | 4812.3 | 3567.2 | 3404.1 | 3518.1 | 3622.4 | 3689.9 | 3725.4 | 3765.9 | 3772.0 |
| 22.5° | 8179.5 | 6863.3 | 4349.8 | 3301.0 | 3293.7 | 3432.3 | 3531.6 | 3612.5 | 3585.6 | 3546.3 | 3572.1 |
| 25° | 8078.9 | 6544.3 | 3873.8 | 3102.2 | 3177.1 | 3317.0 | 3439.6 | 3385.6 | 3294.9 | 3277.7 | 3287.5 |
| 27.5° | 7899.8 | 6137.0 | 3433.5 | 2918.3 | 3042.2 | 3210.2 | 3202.8 | 3148.9 | 3117.0 | 3094.9 | 3108.4 |
| 30° | 7707.3 | 5695.5 | 3048.3 | 2757.6 | 2892.5 | 3031.2 | 3002.9 | 3001.7 | 2969.8 | 2934.2 | 2951.4 |
| 32.5° | 7517.1 | 5251.4 | 2742.8 | 2625.1 | 2779.6 | 2798.1 | 2859.4 | 2877.8 | 2815.2 | 2740.4 | 2735.5 |
| 35° | 7351.5 | 4831.8 | 2511.0 | 2504.8 | 2643.5 | 2646.0 | 2735.5 | 2709.8 | 2553.9 | 2476.7 | 2476.7 |
| 37.5° | 7227.6 | 4413.6 | 2334.4 | 2397.0 | 2464.4 | 2528.2 | 2573.6 | 2466.8 | 2441.1 | 2398.2 | 2397.0 |
| 40° | 7173.7 | 4045.6 | 2224.0 | 2314.7 | 2338.1 | 2419.0 | 2302.5 | 2344.1 | 2356.4 | 2334.4 | 2334.4 |
| 42.5° | 7117.2 | 3725.4 | 2128.3 | 2252.2 | 2248.5 | 2237.5 | 2178.6 | 2232.5 | 2281.6 | 2282.9 | 2279.1 |
| 45° | 7060.8 | 3449.4 | 2043.6 | 2118.4 | 2170.0 | 2051.0 | 2062.1 | 2119.7 | 2188.4 | 2212.9 | 2212.9 |
| 47.5° | 6998.2 | 3231.1 | 1966.4 | 1977.4 | 2057.1 | 1977.4 | 1968.8 | 2013.0 | 2093.9 | 2133.2 | 2141.8 |
| 50° | 6860.8 | 3034.8 | 1878.0 | 1853.5 | 1875.6 | 1902.6 | 1910.0 | 1930.8 | 2020.3 | 2082.9 | 2097.7 |
| 52.5° | 6670.7 | 2859.4 | 1765.2 | 1739.4 | 1739.4 | 1841.2 | 1875.6 | 1881.7 | 1957.7 | 2032.6 | 2047.4 |
| 55° | 6512.4 | 2747.8 | 1648.7 | 1643.7 | 1638.9 | 1776.3 | 1835.1 | 1844.9 | 1897.7 | 1956.5 | 1963.9 |
| 57° | 6523.4 | 2739.2 | 1559.1 | 1564.0 | 1562.8 | 1709.9 | 1797.0 | 1817.9 | 1844.9 | 1895.2 | 1903.8 |
| 57.5° | 6529.6 | 2745.3 | 1539.5 | 1541.9 | 1540.7 | 1691.6 | 1786.1 | 1809.3 | 1830.2 | 1882.9 | 1891.5 |
| 60° | 6621.6 | 2761.3 | 1459.7 | 1432.7 | 1438.9 | 1593.4 | 1723.5 | 1752.9 | 1766.4 | 1836.4 | 1847.4 |
| 62.5° | 6485.4 | 2690.1 | 1395.9 | 1330.9 | 1330.9 | 1490.4 | 1636.4 | 1683.0 | 1703.9 | 1798.4 | 1816.7 |
| 65° | 6090.5 | 2490.1 | 1321.1 | 1215.7 | 1227.9 | 1387.4 | 1532.1 | 1608.1 | 1640.1 | 1757.8 | 1777.5 |
| 67.5° | 5480.8 | 2258.4 | 1241.4 | 1112.6 | 1124.8 | 1279.4 | 1424.1 | 1506.4 | 1556.6 | 1713.7 | 1729.6 |
| 70° | 4687.2 | 1975.0 | 1133.4 | 1003.5 | 1018.2 | 1161.6 | 1296.6 | 1389.9 | 1464.7 | 1671.9 | 1676.9 |
| 72.5° | 3455.6 | 1619.2 | 982.6 | 883.2 | 899.1 | 1024.2 | 1167.8 | 1275.8 | 1376.4 | 1567.7 | 1565.3 |
| 75° | 2054.7 | 1266.0 | 815.8 | 761.7 | 772.8 | 889.3 | 1051.3 | 1182.5 | 1333.4 | 1527.2 | 1550.6 |
| 77.5° | 1246.3 | 953.2 | 664.8 | 637.8 | 651.3 | 770.4 | 967.9 | 1107.7 | 1315.0 | 1440.1 | 1432.7 |
| 80° | 753.2 | 680.8 | 531.2 | 513.9 | 527.4 | 658.7 | 895.5 | 1051.3 | 1149.4 | 1230.4 | 1230.4 |
| 82.5° | 393.8 | 415.8 | 390.0 | 376.6 | 395.0 | 534.8 | 814.5 | 917.6 | 1015.7 | 872.2 | 814.5 |
| 85° | 160.7 | 217.1 | 236.7 | 235.5 | 246.6 | 370.5 | 702.9 | 785.1 | 655.1 | 621.9 | 636.6 |
| 87.5° | 53.9 | 92.0 | 115.3 | 99.4 | 104.2 | 233.1 | 487.0 | 379.0 | 450.2 | 314.0 | 298.1 |
| 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)