

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: P320053

Luminaire Tested: **GAN-SA9C-750-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60085 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

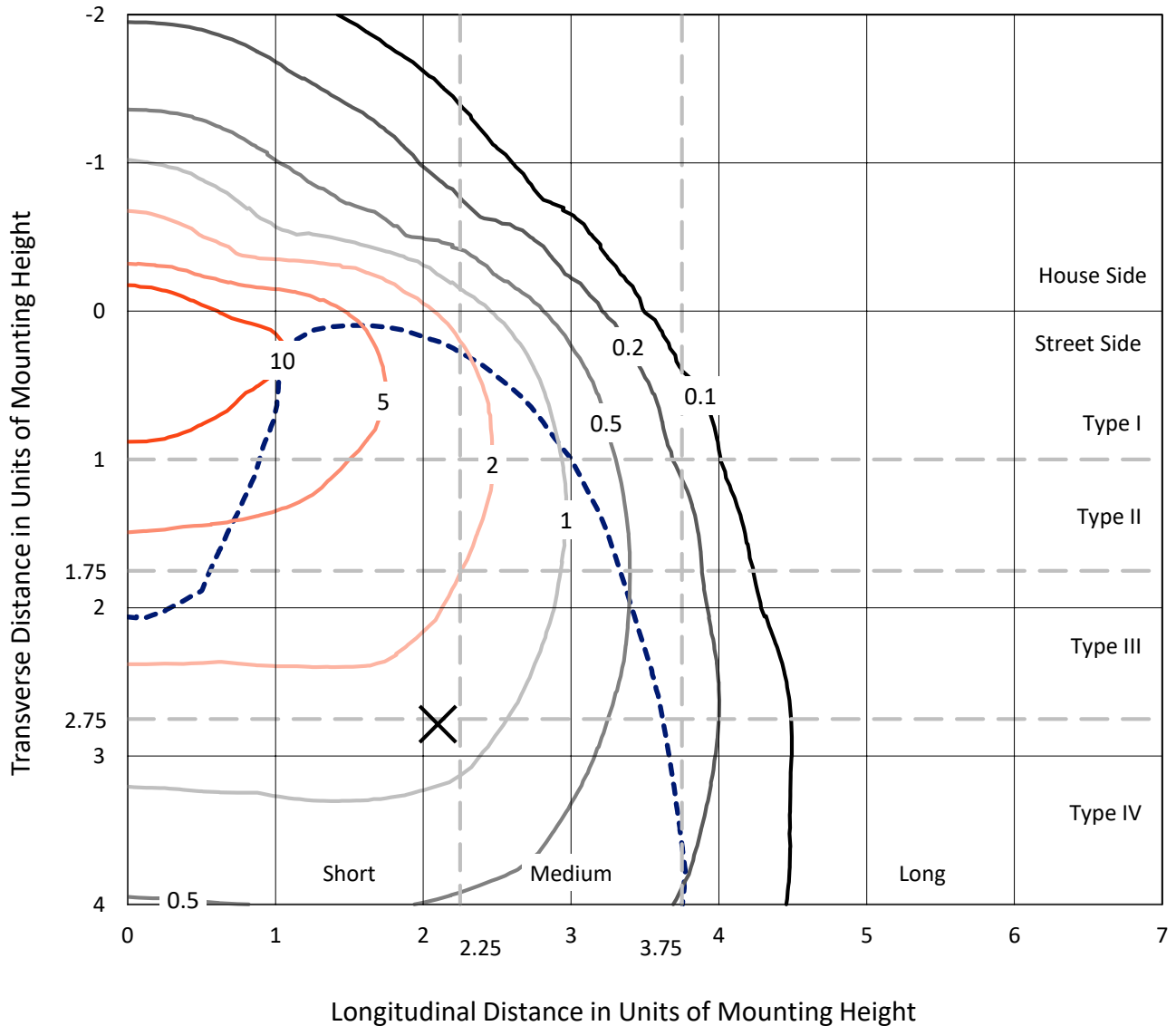
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

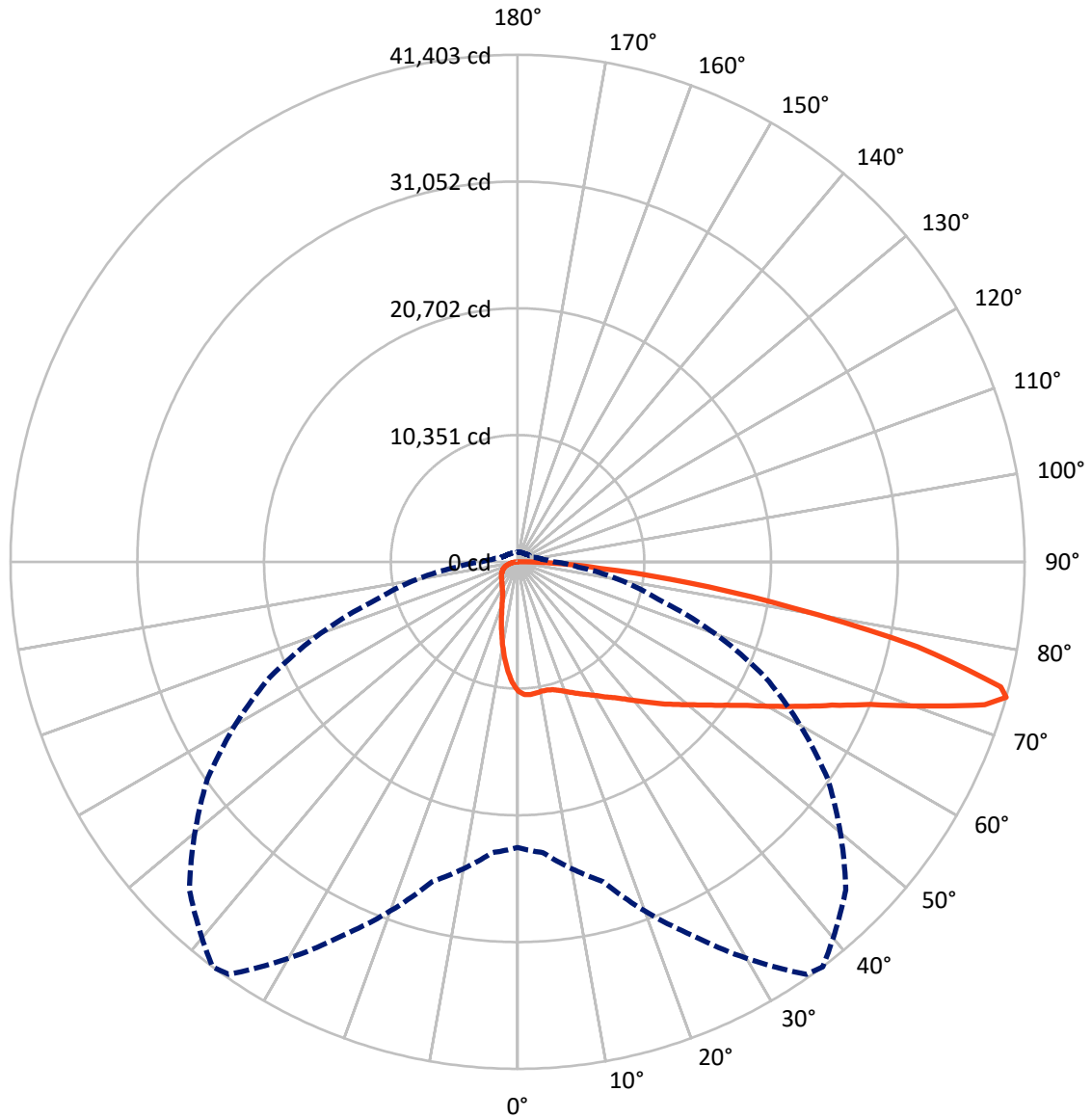
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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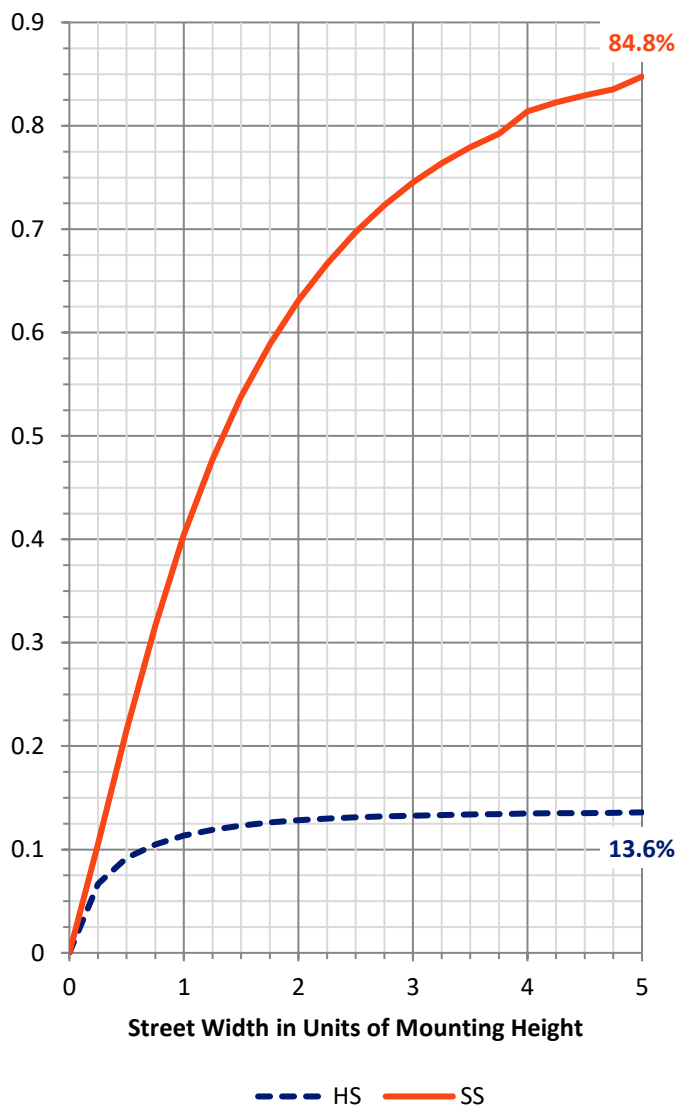
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8267.3 | 0.0 | 8267.3 |
| | % Fixture | 13.8 | 0.0 | 13.8 |
| Street Side | Lumens | 51817.7 | 0.0 | 51817.7 |
| | % Fixture | 86.2 | 0.0 | 86.2 |
| Total | Lumens | 60085.0 | 0.0 | 60085.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 932.3 | 1.6 |
| 10°-20° | 2389.7 | 4.0 |
| 20°-30° | 3682.0 | 6.1 |
| 30°-40° | 5354.2 | 8.9 |
| 40°-50° | 7880.5 | 13.1 |
| 50°-60° | 11066.7 | 18.4 |
| 60°-70° | 14007.1 | 23.3 |
| 70°-80° | 12333.8 | 20.5 |
| 80°-90° | 2438.6 | 4.1 |
| 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° | 60085.0 | 100.0 |
| 0°-180° | 60085.0 | 100.0 |

Coefficient of Utilization

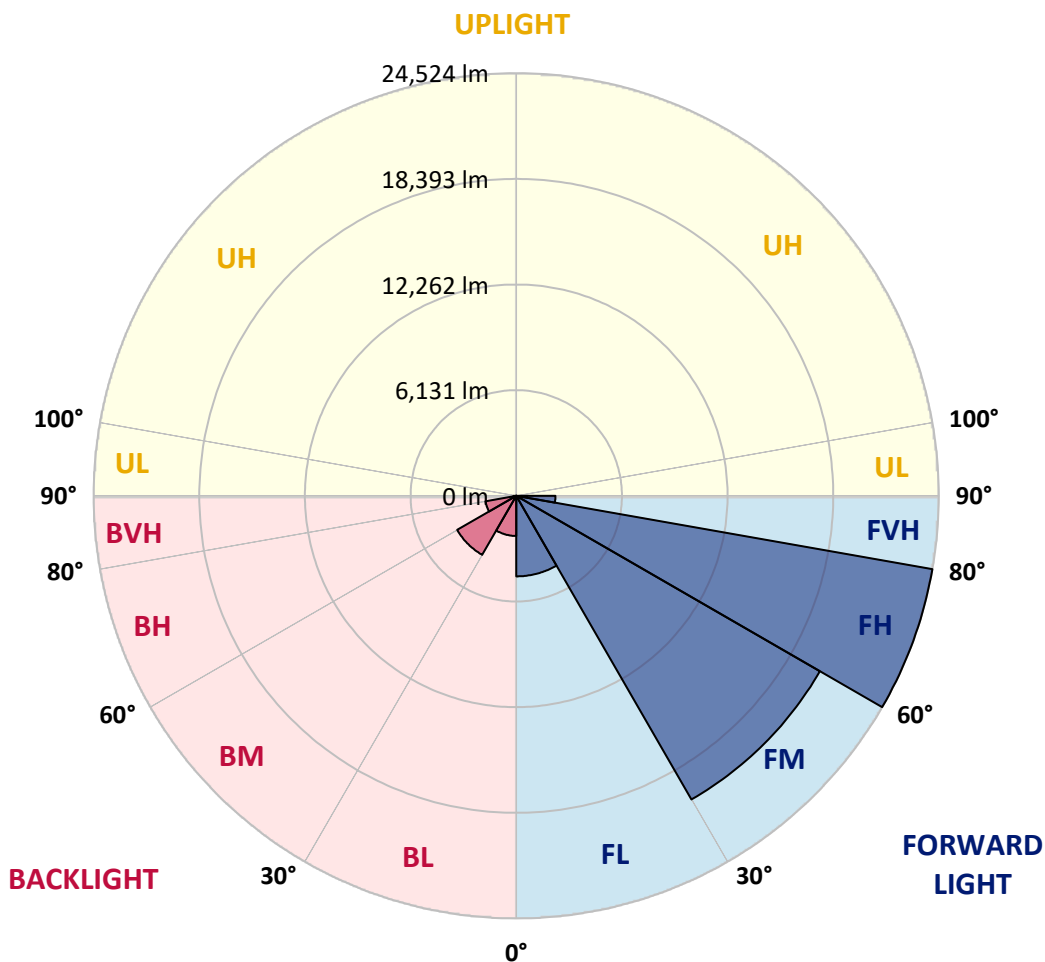


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4675.3 | 7.8 | | | |
| FM (30°-60°) | 20345.3 | 33.9 | | | |
| FH (60°-80°) | 24523.6 | 40.8 | | | G5 |
| FVH (80°-90°) | 2273.5 | 3.8 | | | G5 |
| BL (0°-30°) | 2328.7 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 3956.2 | 6.6 | B3/5000 | | |
| BH (60°-80°) | 1817.2 | 3.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 165.1 | 0.3 | | | G2/225 |
| 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° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10586.7 | 10586.7 | 10586.7 | 10586.7 | 10586.7 | 10586.7 | 10586.7 | 10586.7 | 10586.7 | 10586.7 | 10586.7 |
| 2.5° | 10948.7 | 10950.8 | 10948.7 | 10931.7 | 10891.5 | 10857.7 | 10830.1 | 10789.9 | 10701.0 | 10633.3 | 10531.7 |
| 5° | 11052.4 | 11039.7 | 11031.2 | 10999.5 | 10936.0 | 10897.9 | 10845.0 | 10768.8 | 10622.7 | 10487.3 | 10322.2 |
| 7.5° | 11003.7 | 10988.9 | 10969.8 | 10931.7 | 10859.8 | 10828.0 | 10753.9 | 10654.5 | 10478.8 | 10301.0 | 10064.0 |
| 10° | 10853.4 | 10849.2 | 10840.7 | 10832.3 | 10770.9 | 10745.5 | 10677.8 | 10571.9 | 10398.4 | 10182.5 | 9905.2 |
| 12.5° | 10686.2 | 10696.8 | 10730.7 | 10775.1 | 10747.6 | 10734.9 | 10692.6 | 10620.6 | 10442.8 | 10210.0 | 9875.6 |
| 15° | 10580.4 | 10610.0 | 10701.0 | 10817.4 | 10840.7 | 10836.5 | 10825.9 | 10779.3 | 10591.0 | 10332.8 | 9943.3 |
| 17.5° | 10544.4 | 10593.1 | 10766.6 | 10959.2 | 11027.0 | 11041.8 | 11046.0 | 10965.6 | 10756.1 | 10483.0 | 10013.2 |
| 20° | 10610.0 | 10671.4 | 10925.4 | 11189.9 | 11297.9 | 11306.4 | 11287.3 | 11147.6 | 10912.7 | 10612.1 | 10051.3 |
| 22.5° | 10809.0 | 10864.0 | 11181.5 | 11479.9 | 11602.7 | 11615.4 | 11558.2 | 11346.6 | 11077.8 | 10764.5 | 10104.2 |
| 25° | 11192.1 | 11259.8 | 11577.3 | 11875.7 | 11939.2 | 11941.3 | 11858.8 | 11596.3 | 11293.7 | 10978.3 | 10218.5 |
| 27.5° | 11691.6 | 11759.3 | 12045.0 | 12337.1 | 12303.2 | 12284.2 | 12172.0 | 11909.6 | 11575.2 | 11272.5 | 10421.7 |
| 30° | 12248.2 | 12322.3 | 12593.2 | 12800.6 | 12720.2 | 12682.1 | 12591.1 | 12252.4 | 11966.7 | 11674.6 | 10732.8 |
| 32.5° | 12823.9 | 12891.6 | 13128.7 | 13270.5 | 13168.9 | 13151.9 | 13014.4 | 12705.4 | 12476.8 | 12288.4 | 11236.5 |
| 35° | 13414.4 | 13463.1 | 13695.9 | 13776.3 | 13640.9 | 13636.6 | 13598.5 | 13314.9 | 13171.0 | 13259.9 | 11968.8 |
| 37.5° | 14017.6 | 14030.3 | 14229.2 | 14233.5 | 14193.3 | 14210.2 | 14250.4 | 14072.6 | 14112.8 | 14390.1 | 12921.2 |
| 40° | 14555.2 | 14589.0 | 14733.0 | 14777.4 | 14847.3 | 14906.5 | 15107.6 | 14991.2 | 15302.3 | 15793.3 | 14106.5 |
| 42.5° | 14953.1 | 15018.7 | 15249.4 | 15363.7 | 15590.2 | 15683.3 | 15966.9 | 16074.8 | 16701.3 | 17437.9 | 15516.1 |
| 45° | 15289.6 | 15391.2 | 15761.6 | 15996.5 | 16379.6 | 16542.6 | 16948.9 | 17310.9 | 18282.3 | 19222.1 | 16999.7 |
| 47.5° | 15653.7 | 15782.8 | 16246.3 | 16695.0 | 17215.6 | 17399.8 | 18138.4 | 18680.2 | 19969.2 | 21016.9 | 18398.8 |
| 50° | 16189.1 | 16288.6 | 16741.5 | 17446.3 | 18096.1 | 18333.1 | 19355.4 | 20132.2 | 21683.6 | 22727.0 | 19611.5 |
| 52.5° | 16936.3 | 16898.2 | 17281.2 | 18269.6 | 19141.6 | 19433.7 | 20654.9 | 21677.2 | 23421.2 | 24274.2 | 20635.9 |
| 55° | 17687.6 | 17624.1 | 17892.9 | 19131.1 | 20360.8 | 20667.6 | 22085.7 | 23228.6 | 25074.2 | 25666.8 | 21421.1 |
| 57.5° | 18523.6 | 18403.0 | 18629.5 | 20102.5 | 21749.2 | 22115.3 | 23687.9 | 24877.4 | 26699.7 | 26792.8 | 21920.6 |
| 60° | 19385.0 | 19222.1 | 19476.1 | 21306.8 | 23512.2 | 23944.0 | 25563.1 | 26485.9 | 28232.0 | 27694.4 | 22081.5 |
| 62.5° | 20138.5 | 20024.2 | 20415.8 | 22650.8 | 25499.6 | 25973.7 | 27404.5 | 28196.0 | 29743.2 | 28069.1 | 21501.5 |
| 65° | 20796.8 | 20815.8 | 21493.1 | 24162.0 | 27715.6 | 28221.4 | 29516.7 | 30304.1 | 30932.7 | 27846.8 | 20144.9 |
| 67.5° | 21582.0 | 21689.9 | 22845.5 | 26151.5 | 30505.1 | 31059.7 | 32589.9 | 32602.6 | 31597.3 | 26543.1 | 17473.8 |
| 70° | 22727.0 | 22949.2 | 24705.9 | 28911.4 | 34471.5 | 35233.4 | 36414.4 | 33952.9 | 30663.9 | 23008.5 | 13748.8 |
| 72.5° | 23742.9 | 24157.8 | 26684.9 | 32069.2 | 39305.6 | 39883.4 | 38651.6 | 33174.1 | 26763.2 | 17243.1 | 8565.5 |
| 74° | 23330.2 | 23844.5 | 27044.7 | 33624.9 | 41125.8 | 41403.0 | 37896.0 | 30900.9 | 22314.3 | 11941.3 | 4978.0 |
| 75° | 22441.3 | 23000.0 | 26519.8 | 33610.1 | 40895.1 | 40740.6 | 36071.5 | 28304.0 | 18377.6 | 8144.3 | 3312.3 |
| 77.5° | 18110.9 | 18701.4 | 22346.0 | 28805.6 | 33531.7 | 33385.7 | 27709.2 | 18987.1 | 8049.1 | 2671.0 | 1682.6 |
| 80° | 10529.6 | 10980.4 | 13871.6 | 18292.9 | 22610.6 | 22875.2 | 18223.1 | 9395.2 | 3166.3 | 1500.6 | 1140.8 |
| 82.5° | 4677.5 | 4988.6 | 6700.8 | 9338.0 | 13645.1 | 13985.8 | 9543.3 | 4923.0 | 1955.6 | 912.2 | 685.7 |
| 85° | 3068.9 | 3299.6 | 4067.9 | 4446.8 | 6497.7 | 6730.5 | 4671.1 | 3833.0 | 1291.1 | 501.6 | 503.7 |
| 87.5° | 2207.5 | 2429.7 | 3022.4 | 2639.3 | 2982.2 | 2823.4 | 2541.9 | 3547.3 | 518.5 | 285.7 | 169.3 |
| 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-750-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10586.7 | 10586.7 | 10586.7 | 10586.7 | 10586.7 | 10586.7 | 10586.7 | 10586.7 | 10586.7 | 10586.7 | 10586.7 |
| 2.5° | 10487.3 | 10453.4 | 10377.2 | 10233.3 | 10152.9 | 10085.1 | 9973.0 | 9907.3 | 9877.7 | 9875.6 | 9888.3 |
| 5° | 10226.9 | 10148.6 | 9951.8 | 9710.5 | 9517.9 | 9342.2 | 9124.2 | 8993.0 | 8899.9 | 8844.9 | 8859.7 |
| 7.5° | 9924.3 | 9801.5 | 9492.5 | 9107.3 | 8798.3 | 8457.5 | 8121.0 | 7920.0 | 7763.3 | 7646.9 | 7668.1 |
| 10° | 9716.9 | 9547.5 | 9096.7 | 8542.2 | 8027.9 | 7532.6 | 7069.1 | 6791.9 | 6571.7 | 6402.4 | 6415.1 |
| 12.5° | 9647.0 | 9418.4 | 8794.1 | 8053.3 | 7331.6 | 6654.3 | 6049.0 | 5623.5 | 5397.1 | 5204.5 | 5219.3 |
| 15° | 9657.6 | 9350.7 | 8540.1 | 7613.1 | 6705.1 | 5852.1 | 5117.7 | 4620.3 | 4313.4 | 4180.1 | 4182.2 |
| 17.5° | 9666.1 | 9272.4 | 8273.4 | 7141.1 | 6084.9 | 5102.9 | 4305.0 | 3801.2 | 3511.3 | 3388.5 | 3390.6 |
| 20° | 9638.6 | 9145.4 | 7943.2 | 6599.3 | 5437.3 | 4415.0 | 3642.5 | 3215.0 | 2994.9 | 2899.6 | 2899.6 |
| 22.5° | 9602.6 | 8995.1 | 7570.7 | 6055.3 | 4798.1 | 3818.2 | 3168.4 | 2842.5 | 2715.5 | 2652.0 | 2649.9 |
| 25° | 9619.5 | 8883.0 | 7189.8 | 5496.6 | 4209.7 | 3342.0 | 2853.0 | 2637.2 | 2552.5 | 2512.3 | 2510.2 |
| 27.5° | 9710.5 | 8830.0 | 6838.4 | 4939.9 | 3695.4 | 2984.3 | 2641.4 | 2489.0 | 2434.0 | 2408.6 | 2408.6 |
| 30° | 9875.6 | 8830.0 | 6472.3 | 4465.8 | 3267.9 | 2719.7 | 2478.4 | 2374.7 | 2336.6 | 2319.7 | 2319.7 |
| 32.5° | 10163.4 | 8878.7 | 6118.8 | 3996.0 | 2927.1 | 2512.3 | 2343.0 | 2273.1 | 2243.5 | 2235.0 | 2235.0 |
| 35° | 10658.7 | 9043.8 | 5773.8 | 3551.5 | 2652.0 | 2343.0 | 2213.9 | 2173.6 | 2152.5 | 2150.4 | 2156.7 |
| 37.5° | 11355.0 | 9380.3 | 5450.0 | 3223.4 | 2457.3 | 2205.4 | 2105.9 | 2074.2 | 2061.5 | 2072.1 | 2080.5 |
| 40° | 12231.3 | 9837.5 | 5155.8 | 2927.1 | 2309.1 | 2095.3 | 2006.4 | 1985.3 | 1978.9 | 1993.7 | 2006.4 |
| 42.5° | 13289.5 | 10455.5 | 4914.5 | 2713.4 | 2194.8 | 2002.2 | 1921.8 | 1896.4 | 1890.0 | 1907.0 | 1923.9 |
| 45° | 14434.5 | 11120.1 | 4745.2 | 2554.6 | 2105.9 | 1932.4 | 1847.7 | 1820.2 | 1807.5 | 1816.0 | 1835.0 |
| 47.5° | 15475.9 | 11748.7 | 4677.5 | 2442.4 | 2021.3 | 1873.1 | 1782.1 | 1748.2 | 1727.1 | 1722.8 | 1737.6 |
| 50° | 16354.2 | 12216.5 | 4709.2 | 2374.7 | 1953.5 | 1807.5 | 1718.6 | 1680.5 | 1648.8 | 1629.7 | 1640.3 |
| 52.5° | 16993.4 | 12510.6 | 4738.8 | 2345.1 | 1900.6 | 1735.5 | 1648.8 | 1612.8 | 1570.4 | 1538.7 | 1538.7 |
| 55° | 17456.9 | 12578.4 | 4673.2 | 2321.8 | 1860.4 | 1657.2 | 1570.4 | 1536.6 | 1494.3 | 1458.3 | 1454.0 |
| 57.5° | 17638.9 | 12387.9 | 4429.8 | 2287.9 | 1832.9 | 1583.1 | 1487.9 | 1462.5 | 1426.5 | 1384.2 | 1382.1 |
| 60° | 17393.4 | 11799.5 | 3960.0 | 2216.0 | 1796.9 | 1521.8 | 1405.4 | 1388.4 | 1371.5 | 1331.3 | 1329.2 |
| 62.5° | 16407.1 | 10508.4 | 3352.5 | 2069.9 | 1724.9 | 1456.2 | 1329.2 | 1337.6 | 1339.7 | 1312.2 | 1308.0 |
| 65° | 14618.7 | 8734.8 | 2759.9 | 1879.5 | 1617.0 | 1377.8 | 1250.9 | 1291.1 | 1314.3 | 1310.1 | 1303.8 |
| 67.5° | 12019.6 | 6798.2 | 2338.7 | 1678.4 | 1475.2 | 1269.9 | 1166.2 | 1212.8 | 1231.8 | 1246.6 | 1242.4 |
| 70° | 8921.1 | 4793.9 | 1934.5 | 1466.7 | 1303.8 | 1142.9 | 1056.1 | 1079.4 | 1066.7 | 1083.6 | 1090.0 |
| 72.5° | 4973.8 | 2876.3 | 1576.8 | 1255.1 | 1126.0 | 994.8 | 933.4 | 929.1 | 901.6 | 901.6 | 901.6 |
| 74° | 2984.3 | 2110.2 | 1386.3 | 1123.9 | 1018.0 | 897.4 | 844.5 | 825.4 | 800.0 | 802.2 | 800.0 |
| 75° | 2400.1 | 1813.8 | 1272.0 | 1037.1 | 941.8 | 840.3 | 787.3 | 761.9 | 742.9 | 742.9 | 740.8 |
| 77.5° | 1515.4 | 1377.8 | 1024.4 | 825.4 | 753.5 | 692.1 | 656.1 | 622.3 | 622.3 | 620.1 | 618.0 |
| 80° | 1145.0 | 1096.3 | 797.9 | 624.4 | 577.8 | 531.2 | 508.0 | 493.1 | 493.1 | 499.5 | 497.4 |
| 82.5° | 785.2 | 825.4 | 560.9 | 436.0 | 412.7 | 378.9 | 374.6 | 376.7 | 370.4 | 361.9 | 359.8 |
| 85° | 573.6 | 620.1 | 378.9 | 275.1 | 251.9 | 230.7 | 247.6 | 256.1 | 245.5 | 226.5 | 218.0 |
| 87.5° | 220.1 | 406.4 | 203.2 | 114.3 | 105.8 | 91.0 | 105.8 | 110.1 | 118.5 | 93.1 | 95.2 |
| 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)