

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: P383175

Luminaire Tested: **GAN-SA5A-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21291.5 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

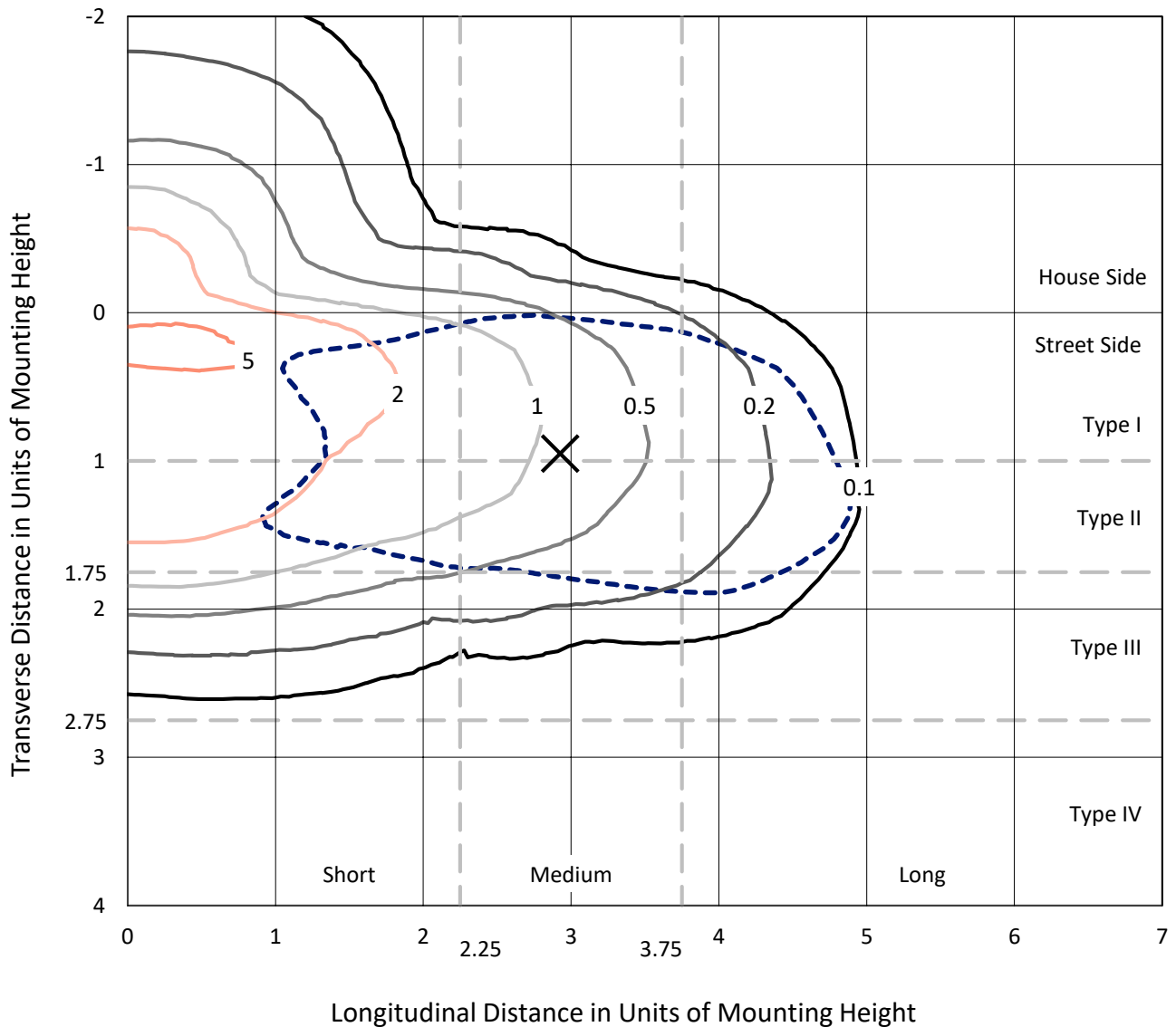
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

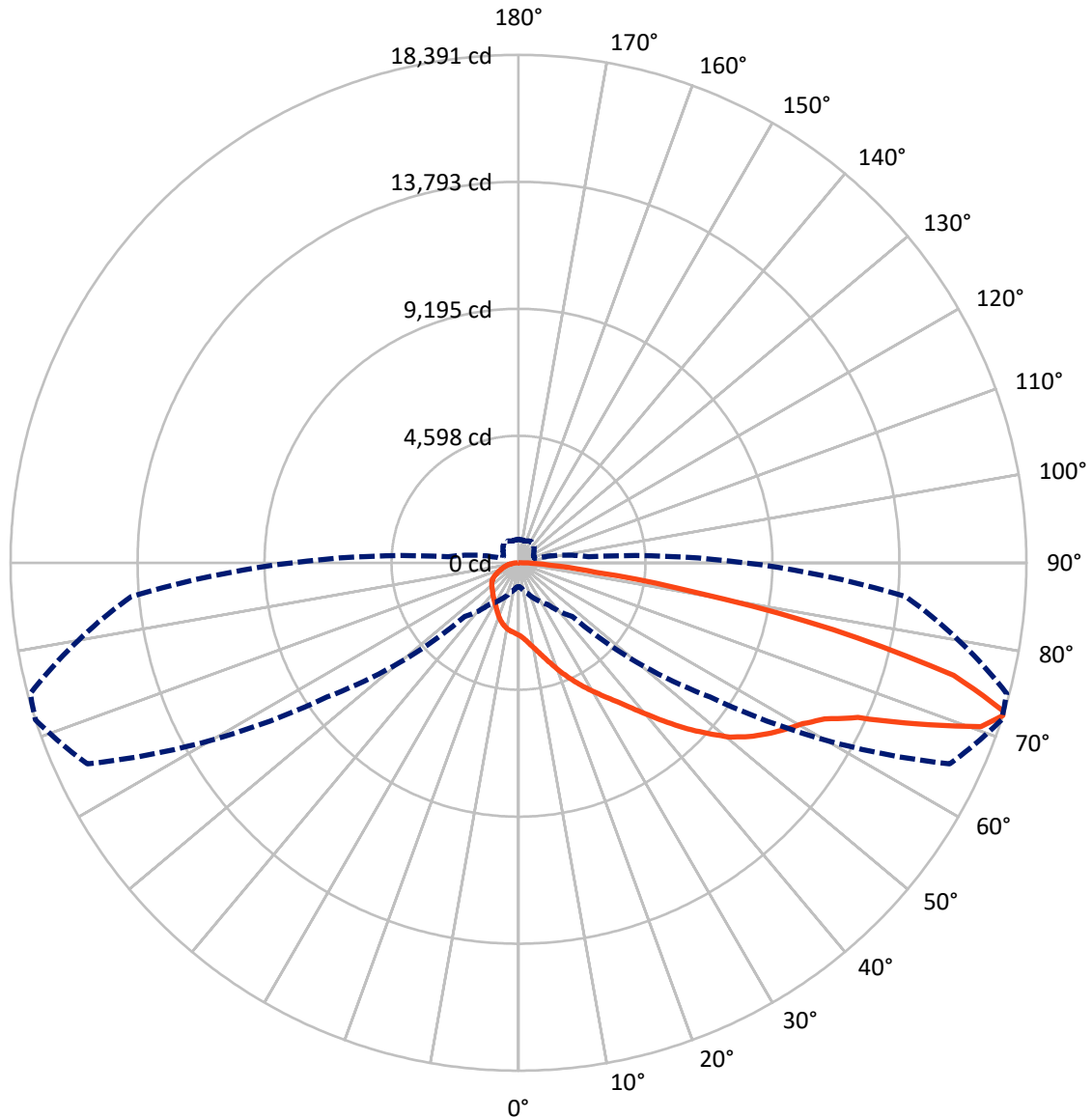
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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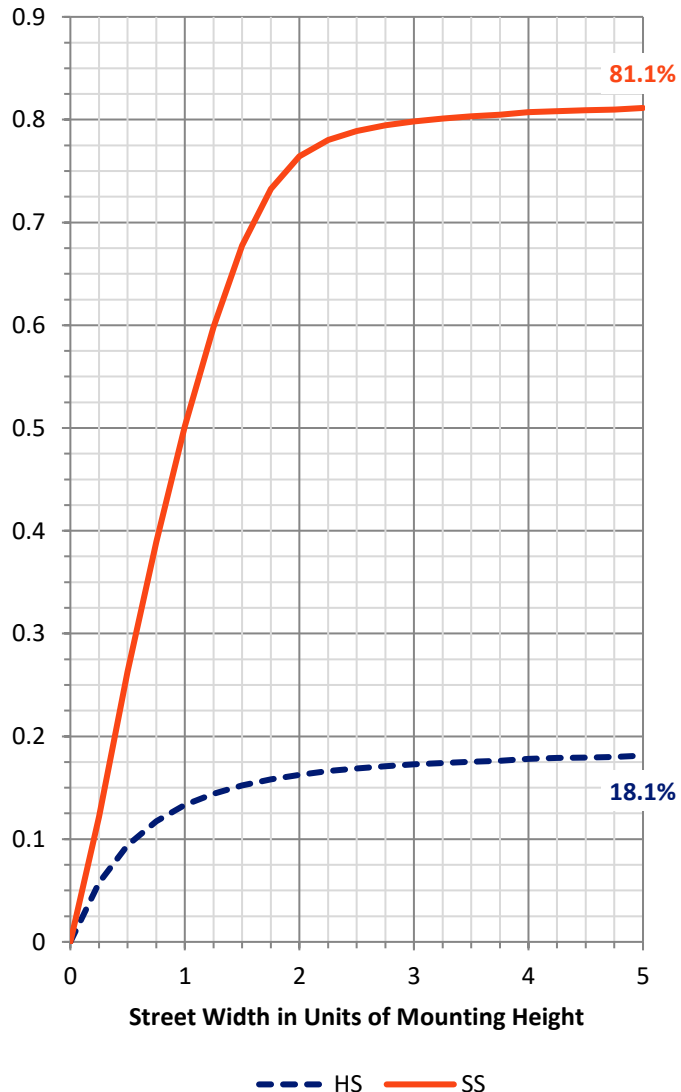
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3949.7 | 0.0 | 3949.7 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 17341.8 | 0.0 | 17341.8 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 21291.5 | 0.0 | 21291.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 262.5 | 1.2 |
| 10°-20° | 848.2 | 4.0 |
| 20°-30° | 1486.3 | 7.0 |
| 30°-40° | 2203.7 | 10.4 |
| 40°-50° | 3223.1 | 15.1 |
| 50°-60° | 4434.9 | 20.8 |
| 60°-70° | 4937.4 | 23.2 |
| 70°-80° | 3345.6 | 15.7 |
| 80°-90° | 549.9 | 2.6 |
| 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° | 21291.5 | 100.0 |
| 0°-180° | 21291.5 | 100.0 |

Coefficient of Utilization

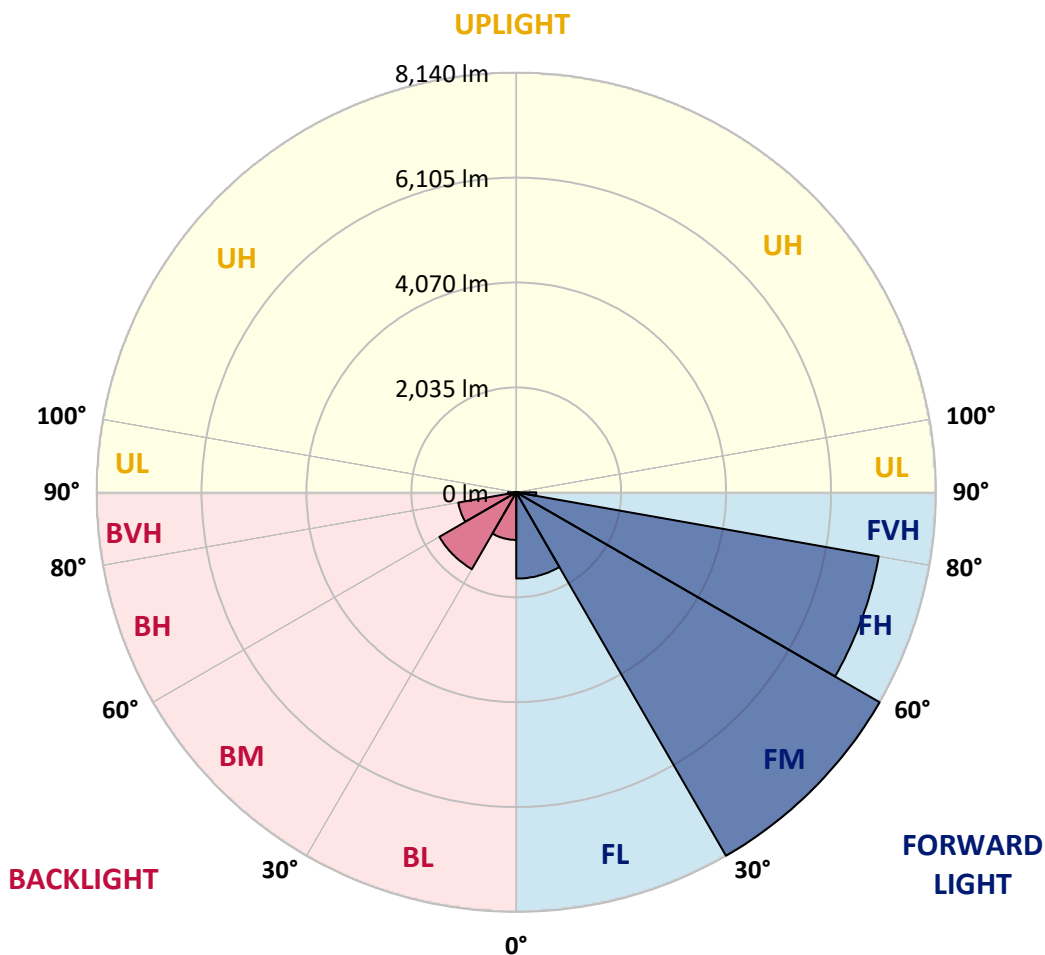


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1673.6 | 7.9 | | | |
| FM (30°-60°) | 8140.0 | 38.2 | | | |
| FH (60°-80°) | 7140.2 | 33.5 | | | G3/7500 |
| FVH (80°-90°) | 387.9 | 1.8 | | | G3/500 |
| BL (0°-30°) | 923.3 | 4.3 | B2/1000 | | |
| BM (30°-60°) | 1721.7 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 1142.7 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 162.0 | 0.8 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 2619.4 | 2619.4 | 2619.4 | 2619.4 | 2619.4 | 2619.4 | 2619.4 | 2619.4 | 2619.4 | 2619.4 | 2619.4 |
| 2.5° | 2893.6 | 2889.2 | 2873.8 | 2873.8 | 2844.5 | 2819.5 | 2772.7 | 2741.1 | 2703.7 | 2690.5 | 2646.5 |
| 5° | 3173.6 | 3175.1 | 3156.1 | 3142.9 | 3099.6 | 3046.8 | 2966.9 | 2894.3 | 2821.8 | 2792.4 | 2702.2 |
| 7.5° | 3409.0 | 3406.0 | 3400.9 | 3389.9 | 3349.6 | 3295.3 | 3187.6 | 3079.8 | 2972.8 | 2928.8 | 2773.4 |
| 10° | 3560.0 | 3566.6 | 3571.0 | 3576.1 | 3559.3 | 3520.4 | 3418.5 | 3287.2 | 3147.2 | 3087.1 | 2858.4 |
| 12.5° | 3636.2 | 3647.9 | 3668.5 | 3703.6 | 3731.5 | 3727.1 | 3653.1 | 3513.8 | 3347.4 | 3271.9 | 2964.7 |
| 15° | 3680.9 | 3696.4 | 3728.6 | 3791.7 | 3870.1 | 3914.8 | 3895.0 | 3768.9 | 3583.5 | 3490.3 | 3094.4 |
| 17.5° | 3708.8 | 3721.3 | 3771.1 | 3855.4 | 3972.0 | 4090.8 | 4142.8 | 4037.2 | 3850.3 | 3744.0 | 3243.3 |
| 20° | 3727.9 | 3737.4 | 3799.7 | 3898.7 | 4049.7 | 4238.8 | 4384.0 | 4357.6 | 4144.3 | 4006.5 | 3398.7 |
| 22.5° | 3770.3 | 3778.5 | 3837.8 | 3937.6 | 4104.7 | 4348.8 | 4616.4 | 4656.0 | 4454.4 | 4298.3 | 3565.1 |
| 25° | 3889.1 | 3889.1 | 3939.0 | 4008.6 | 4165.5 | 4444.1 | 4812.8 | 4988.1 | 4771.1 | 4589.3 | 3719.1 |
| 27.5° | 4115.7 | 4113.5 | 4131.8 | 4156.0 | 4274.8 | 4540.9 | 4988.1 | 5281.3 | 5099.5 | 4900.9 | 3868.6 |
| 30° | 4384.0 | 4398.7 | 4400.8 | 4389.2 | 4444.9 | 4661.8 | 5150.1 | 5590.7 | 5430.2 | 5216.1 | 4021.9 |
| 32.5° | 4729.3 | 4738.8 | 4727.8 | 4688.9 | 4680.9 | 4833.4 | 5309.2 | 5914.8 | 5787.9 | 5545.2 | 4161.9 |
| 35° | 5167.7 | 5149.4 | 5114.9 | 5035.8 | 4960.2 | 5062.9 | 5491.0 | 6238.8 | 6189.7 | 5943.4 | 4354.7 |
| 37.5° | 5637.6 | 5638.4 | 5595.8 | 5416.2 | 5312.2 | 5356.1 | 5741.7 | 6606.1 | 6675.7 | 6416.9 | 4601.8 |
| 40° | 6014.4 | 6034.2 | 6060.6 | 5824.6 | 5689.7 | 5750.5 | 6060.6 | 7032.0 | 7250.4 | 6978.5 | 4923.6 |
| 42.5° | 6277.6 | 6300.3 | 6375.1 | 6227.0 | 6087.0 | 6199.9 | 6436.0 | 7486.6 | 7895.6 | 7626.6 | 5300.4 |
| 45° | 6556.2 | 6568.7 | 6621.4 | 6557.6 | 6468.2 | 6722.6 | 6859.0 | 7957.2 | 8578.2 | 8317.1 | 5721.9 |
| 47.5° | 6849.5 | 6862.6 | 6916.9 | 6874.4 | 6827.5 | 7210.8 | 7300.4 | 8400.7 | 9232.1 | 9075.9 | 6172.1 |
| 50° | 7211.6 | 7220.4 | 7271.8 | 7194.7 | 7209.4 | 7578.9 | 7694.8 | 8807.6 | 9917.5 | 9757.7 | 6623.7 |
| 52.5° | 7705.8 | 7707.9 | 7779.1 | 7709.4 | 7640.5 | 7848.7 | 8034.1 | 9191.0 | 10454.9 | 10379.4 | 7075.3 |
| 55° | 8092.8 | 8116.3 | 8349.4 | 8334.7 | 8295.2 | 8093.6 | 8317.9 | 9556.1 | 10934.3 | 10970.3 | 7554.7 |
| 57.5° | 7845.8 | 7937.3 | 8409.5 | 8742.4 | 9066.4 | 8702.8 | 8701.3 | 9967.4 | 11380.1 | 11550.2 | 8081.8 |
| 60° | 6871.5 | 6996.1 | 7691.8 | 8430.0 | 9443.9 | 9762.8 | 9497.4 | 10469.6 | 11830.2 | 12124.9 | 8742.4 |
| 62.5° | 4907.5 | 5112.7 | 6055.5 | 7234.3 | 8926.4 | 10465.2 | 11117.6 | 11266.4 | 12442.3 | 12790.6 | 9600.8 |
| 65° | 2480.8 | 2636.3 | 3426.6 | 4846.6 | 7131.7 | 10006.2 | 12878.6 | 13011.2 | 13506.1 | 13815.5 | 10922.6 |
| 67.5° | 1507.2 | 1565.9 | 1951.5 | 2695.6 | 4372.3 | 7794.4 | 13453.3 | 15919.5 | 15564.7 | 15728.9 | 12807.5 |
| 70° | 1110.7 | 1153.9 | 1394.3 | 1790.2 | 2514.5 | 4573.9 | 11689.4 | 17994.9 | 17761.8 | 17743.5 | 14200.3 |
| 72° | 865.0 | 896.6 | 1109.2 | 1446.4 | 1838.6 | 2744.1 | 8472.5 | 17228.8 | 18390.8 | 18298.5 | 14072.8 |
| 72.5° | 820.3 | 848.2 | 1041.7 | 1361.4 | 1737.4 | 2487.4 | 7617.7 | 16712.0 | 18345.3 | 18303.6 | 13907.8 |
| 75° | 645.8 | 665.7 | 771.2 | 1052.7 | 1360.0 | 1411.2 | 4174.4 | 12951.1 | 16274.3 | 16951.0 | 12509.1 |
| 77.5° | 534.4 | 537.4 | 593.1 | 766.1 | 1060.1 | 997.8 | 2050.5 | 8985.7 | 11653.6 | 12397.6 | 8861.1 |
| 80° | 435.5 | 439.1 | 465.5 | 537.4 | 802.1 | 738.3 | 973.6 | 5166.9 | 6524.7 | 6532.8 | 4213.9 |
| 82.5° | 346.7 | 347.5 | 376.8 | 392.9 | 576.3 | 527.8 | 557.9 | 2425.8 | 2851.1 | 2742.6 | 1514.6 |
| 85° | 244.2 | 239.0 | 368.1 | 322.6 | 376.8 | 338.7 | 307.9 | 960.3 | 1178.9 | 1127.5 | 474.3 |
| 87.5° | 81.4 | 84.3 | 163.5 | 208.9 | 219.9 | 192.1 | 137.1 | 368.1 | 445.0 | 441.4 | 150.3 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2619.4 | 2619.4 | 2619.4 | 2619.4 | 2619.4 | 2619.4 | 2619.4 | 2619.4 | 2619.4 | 2619.4 | 2619.4 |
| 2.5° | 2632.6 | 2609.2 | 2574.7 | 2536.6 | 2506.5 | 2475.7 | 2453.0 | 2441.2 | 2428.1 | 2417.1 | 2430.2 |
| 5° | 2660.5 | 2616.4 | 2543.1 | 2471.3 | 2418.6 | 2371.6 | 2337.9 | 2320.3 | 2304.2 | 2293.2 | 2294.7 |
| 7.5° | 2705.9 | 2634.8 | 2511.6 | 2406.8 | 2333.5 | 2282.9 | 2248.5 | 2236.7 | 2226.5 | 2223.5 | 2227.1 |
| 10° | 2754.3 | 2649.5 | 2469.8 | 2330.5 | 2247.0 | 2205.2 | 2189.8 | 2197.9 | 2205.2 | 2211.8 | 2219.1 |
| 12.5° | 2809.3 | 2662.6 | 2409.0 | 2241.1 | 2170.0 | 2153.9 | 2169.3 | 2204.5 | 2230.1 | 2245.5 | 2255.1 |
| 15° | 2881.1 | 2674.4 | 2338.7 | 2151.7 | 2104.0 | 2122.3 | 2174.4 | 2235.2 | 2280.0 | 2308.6 | 2312.9 |
| 17.5° | 2947.1 | 2673.6 | 2248.5 | 2061.5 | 2050.5 | 2104.0 | 2182.4 | 2268.2 | 2328.4 | 2368.6 | 2376.8 |
| 20° | 3015.3 | 2653.9 | 2143.6 | 1973.6 | 1996.3 | 2084.2 | 2186.2 | 2289.5 | 2362.1 | 2409.0 | 2420.0 |
| 22.5° | 3079.0 | 2619.4 | 2028.5 | 1893.6 | 1950.8 | 2057.9 | 2172.2 | 2277.1 | 2349.6 | 2387.7 | 2399.5 |
| 25° | 3122.4 | 2559.3 | 1911.9 | 1826.2 | 1910.5 | 2025.6 | 2126.7 | 2211.0 | 2265.3 | 2284.3 | 2287.3 |
| 27.5° | 3144.3 | 2480.8 | 1802.0 | 1767.5 | 1868.7 | 1972.8 | 2042.4 | 2084.2 | 2099.6 | 2098.1 | 2095.2 |
| 30° | 3147.2 | 2377.5 | 1707.4 | 1719.9 | 1820.3 | 1895.0 | 1928.1 | 1920.0 | 1900.3 | 1866.5 | 1869.4 |
| 32.5° | 3137.7 | 2261.0 | 1628.3 | 1674.5 | 1758.8 | 1800.5 | 1802.0 | 1763.1 | 1710.3 | 1656.9 | 1642.1 |
| 35° | 3140.6 | 2146.6 | 1558.6 | 1623.1 | 1684.0 | 1702.3 | 1685.4 | 1628.3 | 1556.4 | 1487.5 | 1472.8 |
| 37.5° | 3172.9 | 2046.9 | 1498.5 | 1563.7 | 1601.1 | 1605.5 | 1581.3 | 1521.2 | 1468.4 | 1401.0 | 1395.1 |
| 40° | 3249.9 | 1975.7 | 1441.3 | 1497.0 | 1518.2 | 1520.5 | 1486.0 | 1443.5 | 1447.9 | 1411.9 | 1411.2 |
| 42.5° | 3388.4 | 1945.0 | 1390.7 | 1427.4 | 1440.5 | 1444.9 | 1418.6 | 1391.5 | 1429.6 | 1406.1 | 1398.1 |
| 45° | 3567.4 | 1952.2 | 1348.2 | 1359.2 | 1383.3 | 1403.9 | 1387.8 | 1354.7 | 1369.5 | 1267.6 | 1233.8 |
| 47.5° | 3774.1 | 1999.2 | 1314.5 | 1300.5 | 1342.4 | 1381.2 | 1356.2 | 1306.4 | 1254.3 | 1153.2 | 1134.2 |
| 50° | 4016.0 | 2071.8 | 1283.7 | 1242.6 | 1297.6 | 1350.4 | 1325.5 | 1254.3 | 1175.9 | 1126.8 | 1120.2 |
| 52.5° | 4268.2 | 2160.4 | 1252.9 | 1178.9 | 1241.2 | 1326.9 | 1314.5 | 1242.6 | 1145.9 | 1097.5 | 1088.7 |
| 55° | 4554.1 | 2249.9 | 1214.0 | 1104.8 | 1180.3 | 1315.9 | 1309.3 | 1200.1 | 1123.2 | 1096.0 | 1089.4 |
| 57.5° | 4909.6 | 2351.8 | 1162.8 | 1027.8 | 1123.2 | 1276.3 | 1255.8 | 1174.4 | 1099.7 | 1079.1 | 1077.0 |
| 60° | 5373.0 | 2502.1 | 1088.7 | 945.7 | 1053.5 | 1215.5 | 1211.1 | 1137.0 | 1062.2 | 1047.6 | 1044.6 |
| 62.5° | 6067.9 | 2750.7 | 986.8 | 863.6 | 975.8 | 1112.2 | 1152.4 | 1086.5 | 1022.7 | 1022.0 | 1023.4 |
| 65° | 7145.6 | 3124.5 | 876.0 | 791.7 | 897.4 | 1024.9 | 1084.2 | 1034.4 | 982.4 | 997.0 | 999.3 |
| 67.5° | 8394.8 | 3434.6 | 767.6 | 721.4 | 817.4 | 942.1 | 1022.7 | 982.4 | 928.8 | 966.9 | 967.7 |
| 70° | 8810.5 | 3157.5 | 672.3 | 651.7 | 734.6 | 862.1 | 956.0 | 925.2 | 870.9 | 909.1 | 905.4 |
| 72° | 8199.1 | 2549.0 | 610.7 | 599.0 | 672.3 | 796.2 | 896.6 | 871.6 | 818.2 | 843.8 | 834.3 |
| 72.5° | 8006.3 | 2430.2 | 595.3 | 585.8 | 655.4 | 779.3 | 881.2 | 858.5 | 805.0 | 826.9 | 818.2 |
| 75° | 7142.0 | 2110.6 | 511.7 | 513.9 | 571.8 | 697.2 | 794.7 | 787.3 | 732.4 | 734.6 | 731.6 |
| 77.5° | 5180.1 | 1547.6 | 431.0 | 445.7 | 486.8 | 612.9 | 707.4 | 703.0 | 643.0 | 632.0 | 629.7 |
| 80° | 2403.9 | 789.6 | 351.2 | 357.7 | 400.3 | 512.4 | 603.4 | 597.5 | 549.1 | 535.2 | 527.1 |
| 82.5° | 823.3 | 375.3 | 263.9 | 268.3 | 310.1 | 412.8 | 523.4 | 519.8 | 479.5 | 452.4 | 435.5 |
| 85° | 294.0 | 187.0 | 184.7 | 180.3 | 221.4 | 324.7 | 456.0 | 436.2 | 376.8 | 321.1 | 319.6 |
| 87.5° | 95.3 | 79.9 | 95.3 | 94.6 | 129.0 | 219.9 | 331.4 | 282.3 | 273.4 | 227.3 | 222.8 |
| 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)