

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: P452644

Luminaire Tested: **GLAN-SA3C-760-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3C-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21107 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

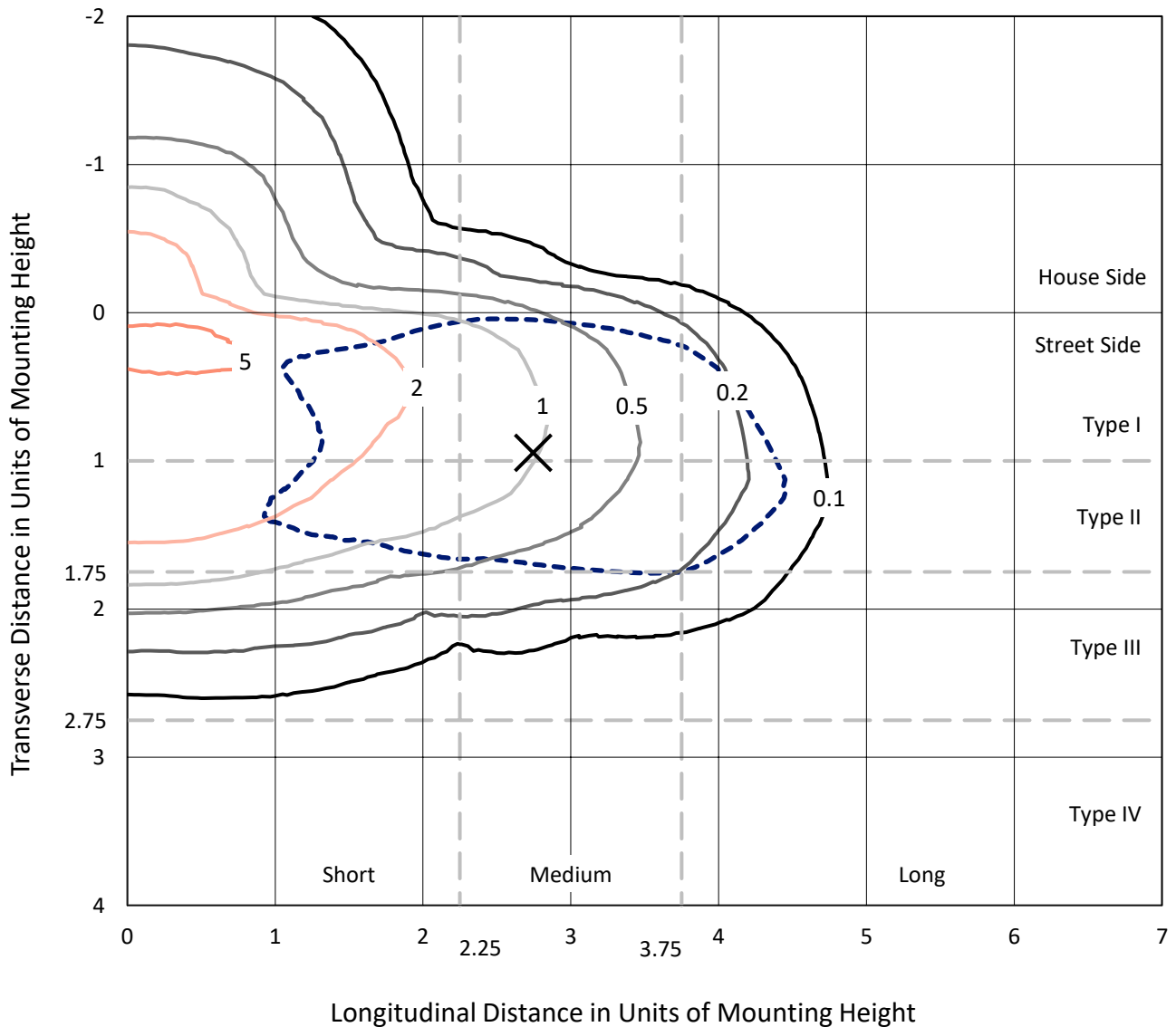
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

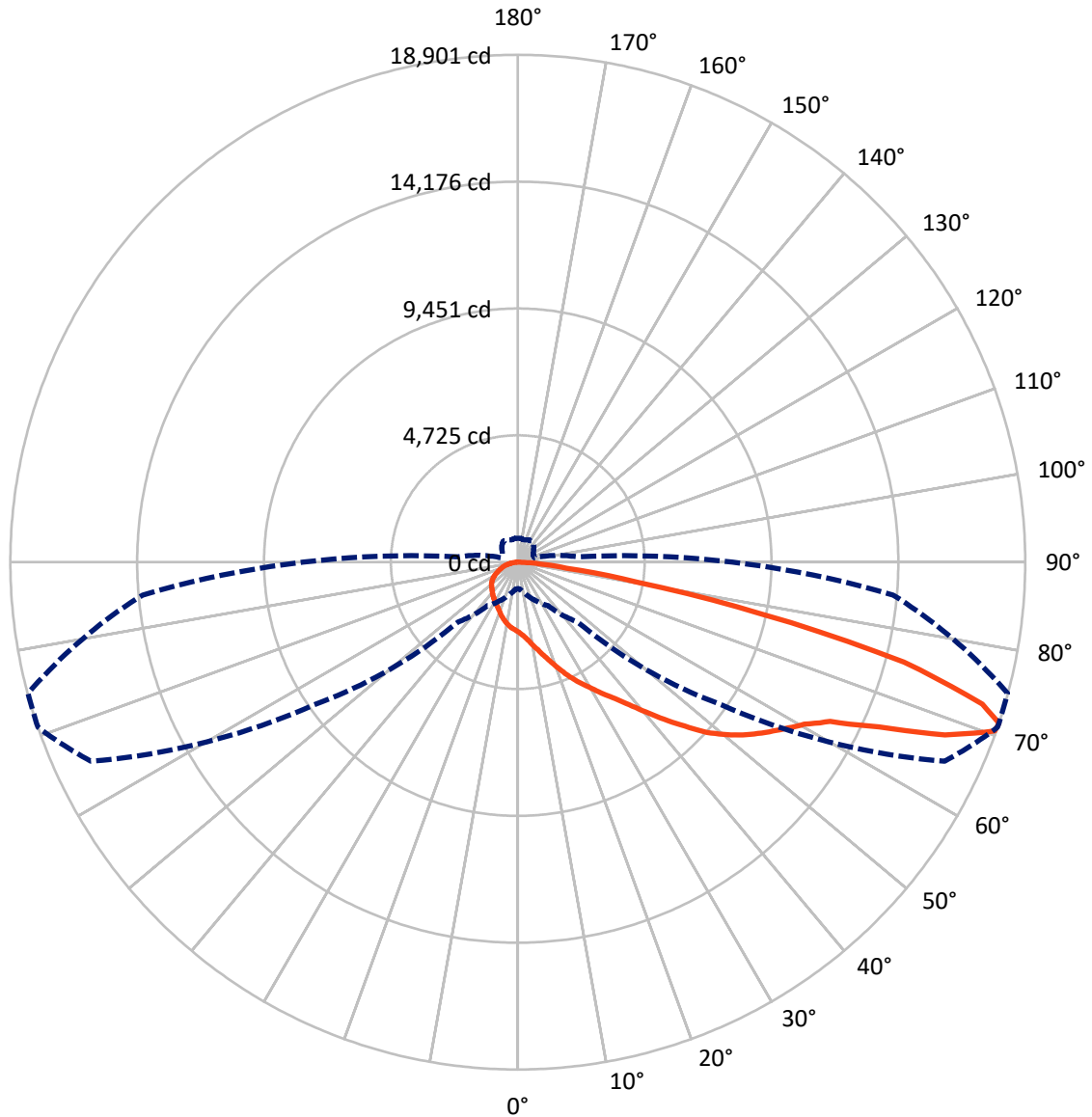
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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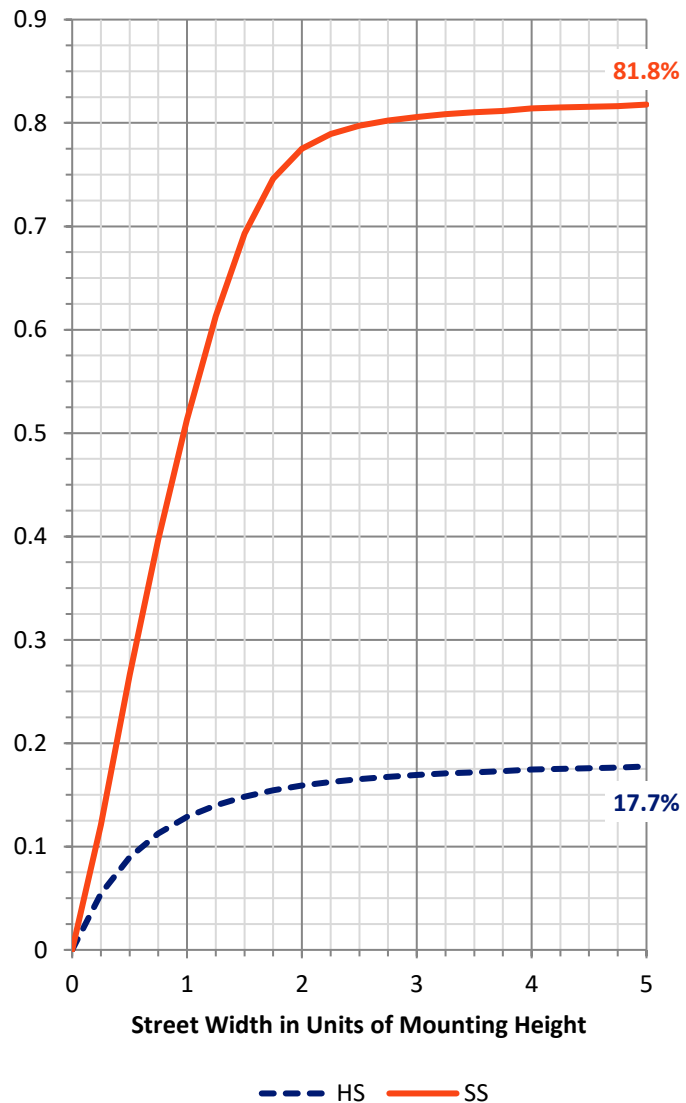
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3796.0 | 0.0 | 3796.0 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 17311.0 | 0.0 | 17311.0 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 21107.0 | 0.0 | 21107.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 260.1 | 1.2 |
| 10°-20° | 845.0 | 4.0 |
| 20°-30° | 1476.8 | 7.0 |
| 30°-40° | 2196.5 | 10.4 |
| 40°-50° | 3236.3 | 15.3 |
| 50°-60° | 4530.9 | 21.5 |
| 60°-70° | 5067.6 | 24.0 |
| 70°-80° | 3095.5 | 14.7 |
| 80°-90° | 398.2 | 1.9 |
| 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° | 21107.0 | 100.0 |
| 0°-180° | 21107.0 | 100.0 |



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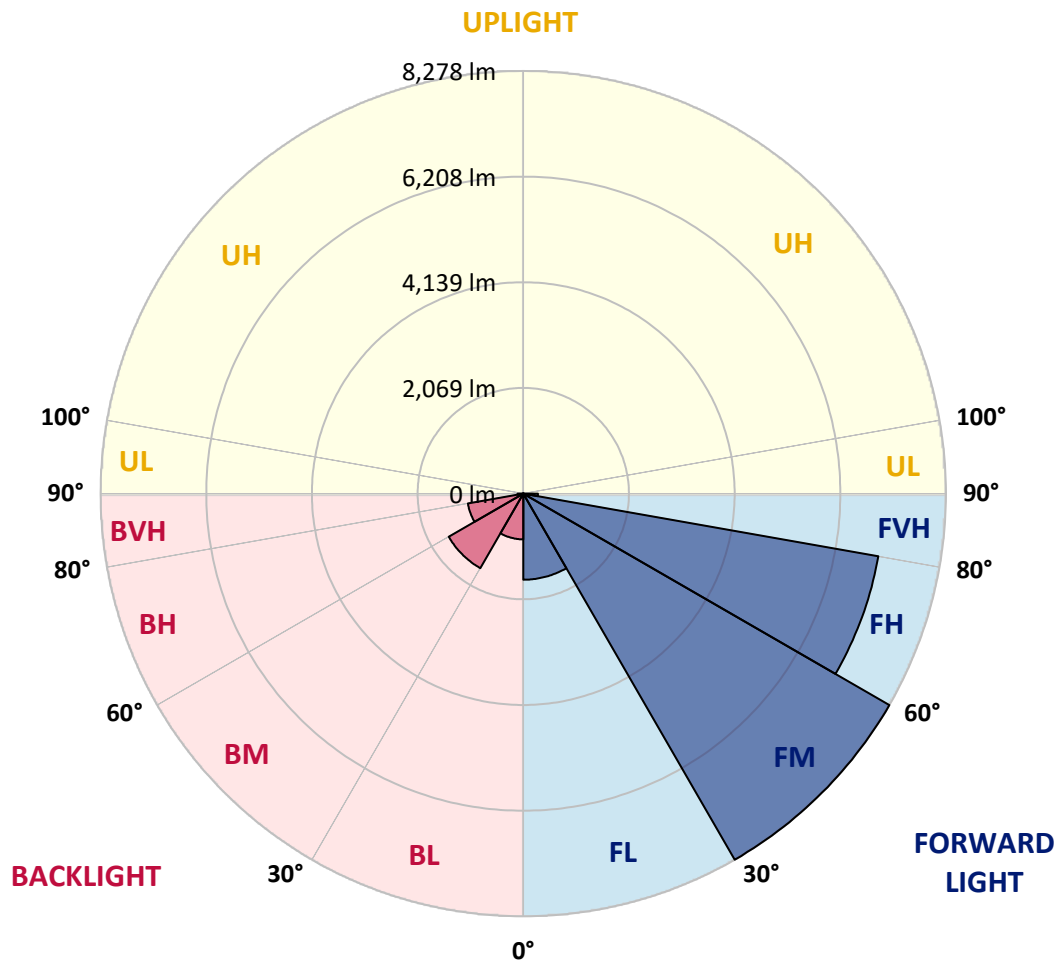
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1686.5 | 8.0 | | | |
| FM | (30°-60°) | 8277.7 | 39.2 | | | |
| FH | (60°-80°) | 7060.2 | 33.4 | | | G3/7500 |
| FVH | (80°-90°) | 286.5 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 895.5 | 4.2 | B2/1000 | | |
| BM | (30°-60°) | 1686.0 | 8.0 | B2/2500 | | |
| BH | (60°-80°) | 1102.9 | 5.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 111.7 | 0.5 | | | 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 II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 |
| 2.5° | 2875.8 | 2861.9 | 2863.1 | 2843.4 | 2817.8 | 2790.0 | 2750.6 | 2715.8 | 2687.9 | 2671.7 | 2624.1 |
| 5° | 3186.8 | 3172.8 | 3155.4 | 3112.5 | 3093.9 | 3025.5 | 2938.5 | 2859.6 | 2799.3 | 2765.6 | 2670.5 |
| 7.5° | 3438.5 | 3435.0 | 3430.4 | 3406.0 | 3358.4 | 3263.3 | 3189.1 | 3052.2 | 2962.9 | 2899.1 | 2736.6 |
| 10° | 3593.9 | 3599.7 | 3603.2 | 3607.9 | 3588.1 | 3538.3 | 3436.2 | 3263.3 | 3149.6 | 3068.4 | 2822.5 |
| 12.5° | 3672.8 | 3678.6 | 3698.3 | 3741.3 | 3768.0 | 3762.2 | 3678.6 | 3509.3 | 3352.6 | 3245.9 | 2914.1 |
| 15° | 3721.5 | 3730.8 | 3765.6 | 3822.5 | 3911.8 | 3968.6 | 3928.0 | 3771.4 | 3599.7 | 3473.3 | 3023.2 |
| 17.5° | 3774.9 | 3785.4 | 3823.6 | 3904.8 | 4022.0 | 4145.0 | 4189.1 | 4054.5 | 3867.7 | 3716.9 | 3145.0 |
| 20° | 3805.1 | 3819.0 | 3873.5 | 3980.2 | 4117.1 | 4295.8 | 4442.0 | 4371.2 | 4167.0 | 4000.0 | 3285.4 |
| 22.5° | 3853.8 | 3865.4 | 3911.8 | 4025.5 | 4189.1 | 4413.0 | 4694.9 | 4679.8 | 4500.0 | 4284.2 | 3439.6 |
| 25° | 3986.0 | 4004.6 | 4027.8 | 4096.3 | 4254.0 | 4532.4 | 4904.8 | 5009.2 | 4822.5 | 4581.2 | 3581.2 |
| 27.5° | 4235.5 | 4250.5 | 4249.4 | 4258.7 | 4348.0 | 4635.7 | 5087.0 | 5335.2 | 5142.7 | 4881.6 | 3718.1 |
| 30° | 4519.7 | 4525.5 | 4530.1 | 4509.2 | 4529.0 | 4741.3 | 5254.0 | 5657.7 | 5465.2 | 5190.2 | 3837.6 |
| 32.5° | 4865.4 | 4877.0 | 4837.6 | 4784.2 | 4767.9 | 4897.9 | 5392.1 | 5980.2 | 5846.8 | 5503.4 | 3955.9 |
| 35° | 5273.7 | 5303.9 | 5223.9 | 5129.9 | 5063.8 | 5122.9 | 5577.7 | 6309.7 | 6237.8 | 5903.7 | 4112.5 |
| 37.5° | 5740.1 | 5777.2 | 5703.0 | 5518.5 | 5424.6 | 5440.8 | 5820.1 | 6716.9 | 6732.0 | 6359.6 | 4345.7 |
| 40° | 6121.8 | 6170.5 | 6172.8 | 5911.8 | 5769.1 | 5787.7 | 6127.6 | 7155.4 | 7328.3 | 6923.4 | 4620.6 |
| 42.5° | 6373.5 | 6421.1 | 6470.9 | 6317.8 | 6168.2 | 6273.7 | 6486.0 | 7631.0 | 7998.8 | 7607.8 | 5004.6 |
| 45° | 6649.6 | 6692.5 | 6720.4 | 6650.8 | 6567.2 | 6841.0 | 6918.7 | 8136.8 | 8713.4 | 8372.3 | 5424.6 |
| 47.5° | 6969.8 | 7017.3 | 7044.0 | 6977.9 | 6946.6 | 7338.7 | 7385.1 | 8609.0 | 9476.7 | 9114.8 | 5888.6 |
| 50° | 7396.7 | 7432.7 | 7418.7 | 7377.0 | 7370.0 | 7720.4 | 7832.9 | 9051.0 | 10106.7 | 9914.1 | 6370.0 |
| 52.5° | 7928.0 | 7970.9 | 7986.0 | 7926.9 | 7900.2 | 7993.0 | 8193.7 | 9453.5 | 10679.7 | 10600.8 | 6883.9 |
| 55° | 8249.4 | 8317.8 | 8547.5 | 8640.3 | 8704.1 | 8345.6 | 8582.3 | 9897.8 | 11193.7 | 11324.7 | 7436.1 |
| 57.5° | 7837.5 | 7925.7 | 8439.6 | 8903.6 | 9503.4 | 9227.3 | 9133.3 | 10361.9 | 11707.6 | 12026.6 | 8097.4 |
| 60° | 6832.9 | 6852.6 | 7515.0 | 8370.0 | 9576.5 | 10360.7 | 10283.0 | 11099.7 | 12264.4 | 12734.2 | 8968.6 |
| 62.5° | 4740.1 | 4781.9 | 5564.9 | 6929.2 | 8673.9 | 10769.1 | 12238.9 | 12373.5 | 13062.5 | 13793.4 | 10245.9 |
| 65° | 2444.3 | 2389.8 | 3103.2 | 4355.0 | 6539.4 | 9799.2 | 13823.6 | 14715.7 | 14793.4 | 15450.0 | 12044.0 |
| 67.5° | 1504.6 | 1529.0 | 1863.1 | 2542.9 | 3866.6 | 7121.8 | 13657.7 | 17577.6 | 17168.1 | 17483.6 | 13713.4 |
| 70° | 1129.9 | 1160.1 | 1389.8 | 1740.1 | 2357.3 | 4071.9 | 10983.7 | 18271.3 | 18843.2 | 18762.0 | 14221.5 |
| 71° | 982.6 | 1013.9 | 1252.9 | 1583.5 | 1980.3 | 3142.7 | 9254.0 | 17545.1 | 18901.3 | 18887.3 | 14030.1 |
| 72.5° | 837.6 | 857.3 | 1044.1 | 1341.1 | 1669.4 | 2203.0 | 6952.4 | 15735.4 | 18095.0 | 18557.9 | 13346.8 |
| 75° | 657.8 | 672.8 | 756.4 | 1023.2 | 1314.4 | 1352.7 | 3730.8 | 11796.9 | 14861.8 | 15743.5 | 11111.3 |
| 77.5° | 536.0 | 546.4 | 589.3 | 759.9 | 1013.9 | 958.2 | 1957.1 | 7678.6 | 9310.8 | 10198.3 | 6545.2 |
| 80° | 425.8 | 437.4 | 462.9 | 515.1 | 759.9 | 683.3 | 933.9 | 3890.9 | 4497.6 | 4488.4 | 2612.5 |
| 82.5° | 330.6 | 334.1 | 364.3 | 378.2 | 519.7 | 484.9 | 505.8 | 1647.3 | 1824.8 | 1885.1 | 943.1 |
| 85° | 208.8 | 219.3 | 322.5 | 290.0 | 310.9 | 284.2 | 249.4 | 654.3 | 806.3 | 794.7 | 377.0 |
| 87.5° | 63.8 | 67.3 | 109.0 | 123.0 | 138.1 | 124.1 | 91.6 | 192.6 | 235.5 | 255.2 | 94.0 |
| 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° | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 | 2590.5 |
| 2.5° | 2605.5 | 2592.8 | 2547.5 | 2510.4 | 2475.6 | 2437.3 | 2404.9 | 2395.6 | 2387.5 | 2384.0 | 2382.8 |
| 5° | 2629.9 | 2591.6 | 2502.3 | 2429.2 | 2371.2 | 2317.8 | 2284.2 | 2269.1 | 2254.0 | 2254.0 | 2258.7 |
| 7.5° | 2664.7 | 2595.1 | 2457.1 | 2348.0 | 2274.9 | 2225.0 | 2200.7 | 2198.4 | 2201.8 | 2205.3 | 2206.5 |
| 10° | 2703.0 | 2592.8 | 2390.9 | 2255.2 | 2190.2 | 2167.0 | 2168.2 | 2187.9 | 2206.5 | 2220.4 | 2222.7 |
| 12.5° | 2740.1 | 2578.9 | 2313.2 | 2168.2 | 2126.4 | 2131.1 | 2163.6 | 2207.6 | 2243.6 | 2263.3 | 2264.5 |
| 15° | 2781.9 | 2556.8 | 2219.2 | 2085.8 | 2071.9 | 2107.9 | 2168.2 | 2235.5 | 2290.0 | 2322.5 | 2326.0 |
| 17.5° | 2816.7 | 2519.7 | 2120.6 | 2005.8 | 2023.2 | 2089.3 | 2172.8 | 2259.8 | 2326.0 | 2366.6 | 2373.5 |
| 20° | 2856.1 | 2472.1 | 2018.5 | 1929.2 | 1979.1 | 2068.4 | 2163.6 | 2257.5 | 2326.0 | 2365.4 | 2374.7 |
| 22.5° | 2887.4 | 2404.9 | 1921.1 | 1866.6 | 1939.7 | 2042.9 | 2132.2 | 2207.6 | 2263.3 | 2284.2 | 2298.1 |
| 25° | 2900.2 | 2320.2 | 1829.5 | 1815.5 | 1908.3 | 2001.1 | 2061.5 | 2104.4 | 2121.8 | 2119.5 | 2125.3 |
| 27.5° | 2893.2 | 2222.7 | 1750.6 | 1774.9 | 1868.9 | 1936.2 | 1966.3 | 1962.9 | 1931.5 | 1902.5 | 1916.5 |
| 30° | 2864.2 | 2106.7 | 1684.4 | 1733.2 | 1817.9 | 1855.0 | 1850.3 | 1805.1 | 1745.9 | 1691.4 | 1694.9 |
| 32.5° | 2812.0 | 1981.4 | 1623.0 | 1685.6 | 1745.9 | 1762.2 | 1730.8 | 1671.7 | 1587.0 | 1516.2 | 1505.8 |
| 35° | 2768.0 | 1861.9 | 1568.4 | 1631.1 | 1674.0 | 1665.9 | 1635.7 | 1559.2 | 1482.6 | 1419.9 | 1409.5 |
| 37.5° | 2761.0 | 1759.8 | 1516.2 | 1569.6 | 1594.0 | 1582.4 | 1545.2 | 1480.3 | 1452.4 | 1404.9 | 1399.1 |
| 40° | 2798.1 | 1687.9 | 1462.9 | 1504.6 | 1516.2 | 1506.9 | 1466.3 | 1429.2 | 1454.7 | 1443.1 | 1443.1 |
| 42.5° | 2899.1 | 1649.6 | 1415.3 | 1439.7 | 1448.9 | 1455.9 | 1426.9 | 1395.6 | 1426.9 | 1373.5 | 1356.1 |
| 45° | 3059.1 | 1650.8 | 1372.4 | 1375.9 | 1403.7 | 1428.1 | 1408.3 | 1361.9 | 1345.7 | 1239.0 | 1218.1 |
| 47.5° | 3294.6 | 1690.2 | 1337.6 | 1315.5 | 1365.4 | 1406.0 | 1378.2 | 1310.9 | 1239.0 | 1168.2 | 1155.4 |
| 50° | 3569.6 | 1761.0 | 1306.3 | 1252.9 | 1314.4 | 1378.2 | 1357.3 | 1278.4 | 1204.2 | 1161.2 | 1153.1 |
| 52.5° | 3874.7 | 1850.3 | 1268.0 | 1183.3 | 1251.7 | 1365.4 | 1361.9 | 1273.8 | 1171.7 | 1142.7 | 1135.7 |
| 55° | 4251.7 | 1938.5 | 1220.4 | 1102.1 | 1196.0 | 1355.0 | 1349.2 | 1235.5 | 1164.7 | 1143.8 | 1141.5 |
| 57.5° | 4690.2 | 2066.1 | 1152.0 | 1019.7 | 1132.2 | 1312.1 | 1299.3 | 1212.3 | 1141.5 | 1126.4 | 1125.3 |
| 60° | 5396.7 | 2264.5 | 1054.5 | 944.3 | 1067.3 | 1236.6 | 1252.9 | 1172.8 | 1104.4 | 1100.9 | 1099.8 |
| 62.5° | 6325.9 | 2542.9 | 953.6 | 866.6 | 991.9 | 1139.2 | 1185.6 | 1119.5 | 1065.0 | 1082.4 | 1084.7 |
| 65° | 7609.0 | 2777.2 | 849.2 | 800.5 | 908.3 | 1045.2 | 1121.8 | 1069.6 | 1020.9 | 1054.5 | 1054.5 |
| 67.5° | 8445.4 | 2781.9 | 754.1 | 732.0 | 823.7 | 966.4 | 1054.5 | 1010.4 | 964.0 | 1020.9 | 1023.2 |
| 70° | 8271.4 | 2437.3 | 675.2 | 660.1 | 741.3 | 881.7 | 980.3 | 945.5 | 892.1 | 943.1 | 924.6 |
| 71° | 7990.7 | 2245.9 | 643.8 | 632.2 | 708.8 | 841.1 | 945.5 | 916.5 | 863.1 | 896.7 | 886.3 |
| 72.5° | 7542.9 | 1950.1 | 592.8 | 595.1 | 660.1 | 790.0 | 896.7 | 866.6 | 813.2 | 831.8 | 828.3 |
| 75° | 6375.8 | 1703.0 | 507.0 | 517.4 | 567.3 | 703.0 | 799.3 | 776.1 | 721.6 | 721.6 | 718.1 |
| 77.5° | 3986.0 | 1190.2 | 421.1 | 426.9 | 481.4 | 602.1 | 686.8 | 667.0 | 614.8 | 597.4 | 592.8 |
| 80° | 1487.2 | 614.8 | 329.5 | 336.4 | 370.1 | 474.5 | 568.4 | 549.9 | 496.5 | 476.8 | 458.2 |
| 82.5° | 562.6 | 308.6 | 242.5 | 236.7 | 272.6 | 361.9 | 445.5 | 423.4 | 381.7 | 334.1 | 320.2 |
| 85° | 212.3 | 153.1 | 148.5 | 143.9 | 160.1 | 214.6 | 276.1 | 271.5 | 227.4 | 193.7 | 190.3 |
| 87.5° | 55.7 | 49.9 | 58.0 | 42.9 | 45.2 | 40.6 | 41.8 | 17.4 | 8.1 | 3.5 | 2.3 |
| 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)