

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: P318047

Luminaire Tested: **GAN-SA3C-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318047
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-SA3C-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19299 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

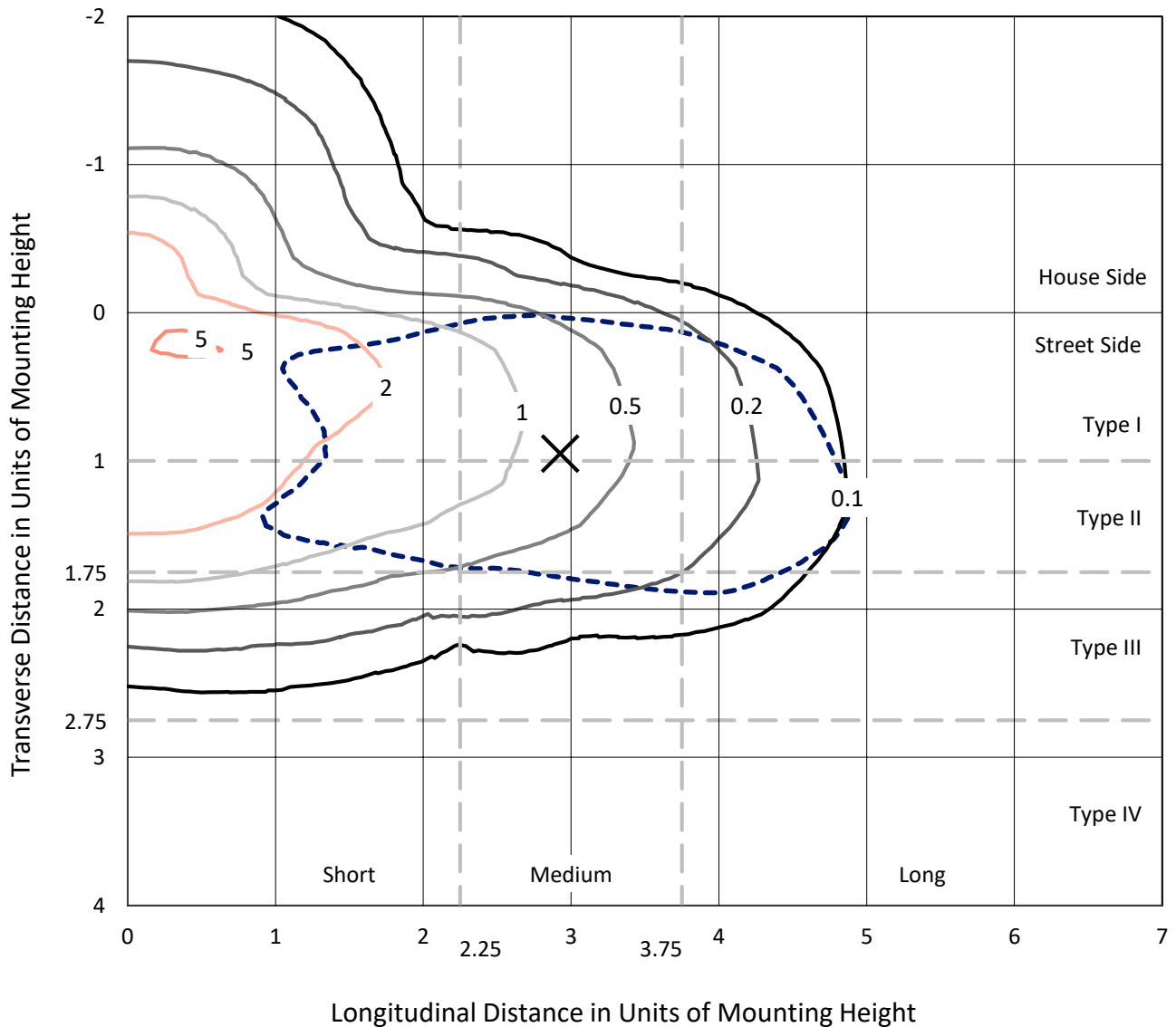
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

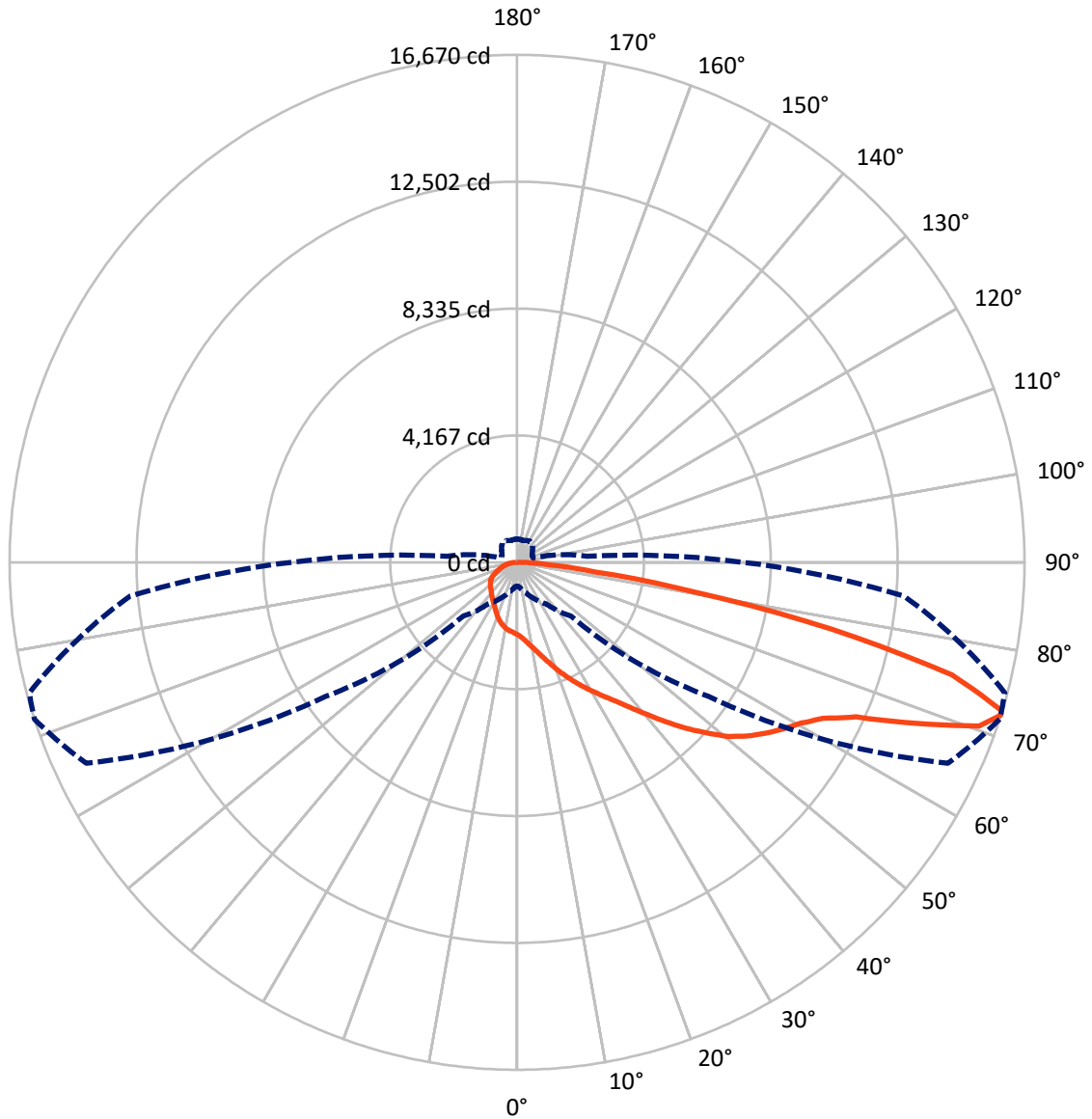
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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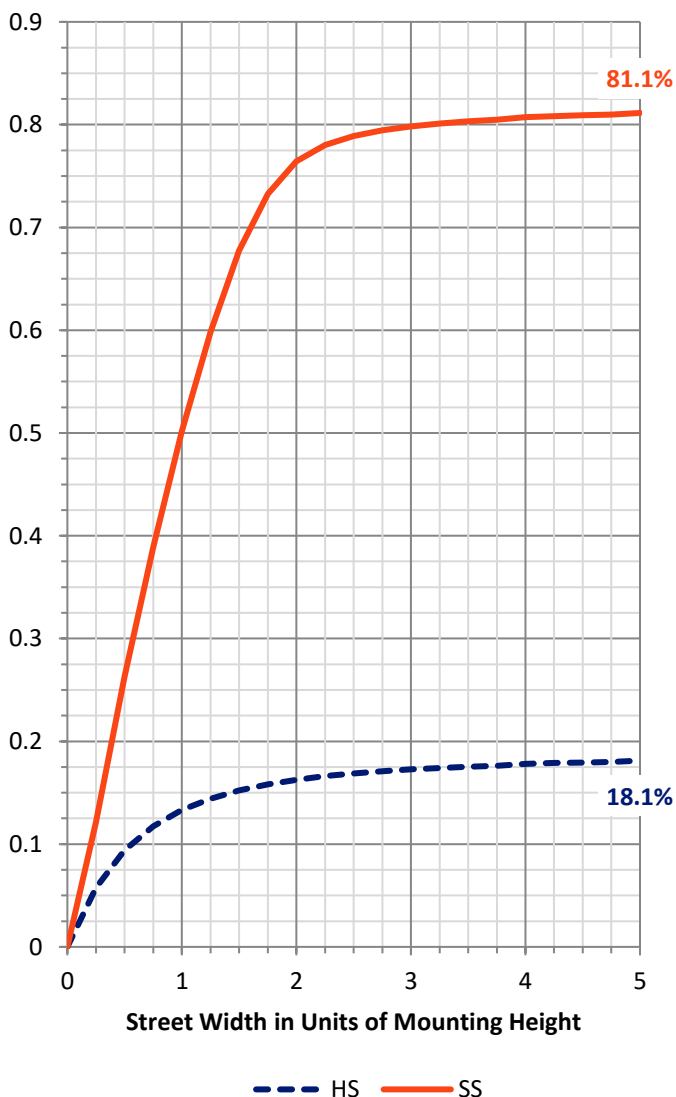
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3580.1 | 0.0 | 3580.1 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 15718.9 | 0.0 | 15718.9 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 19299.0 | 0.0 | 19299.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 237.9 | 1.2 |
| 10°-20° | 768.8 | 4.0 |
| 20°-30° | 1347.2 | 7.0 |
| 30°-40° | 1997.5 | 10.4 |
| 40°-50° | 2921.5 | 15.1 |
| 50°-60° | 4019.9 | 20.8 |
| 60°-70° | 4475.4 | 23.2 |
| 70°-80° | 3032.5 | 15.7 |
| 80°-90° | 498.4 | 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° | 19299.0 | 100.0 |
| 0°-180° | 19299.0 | 100.0 |

Coefficient of Utilization

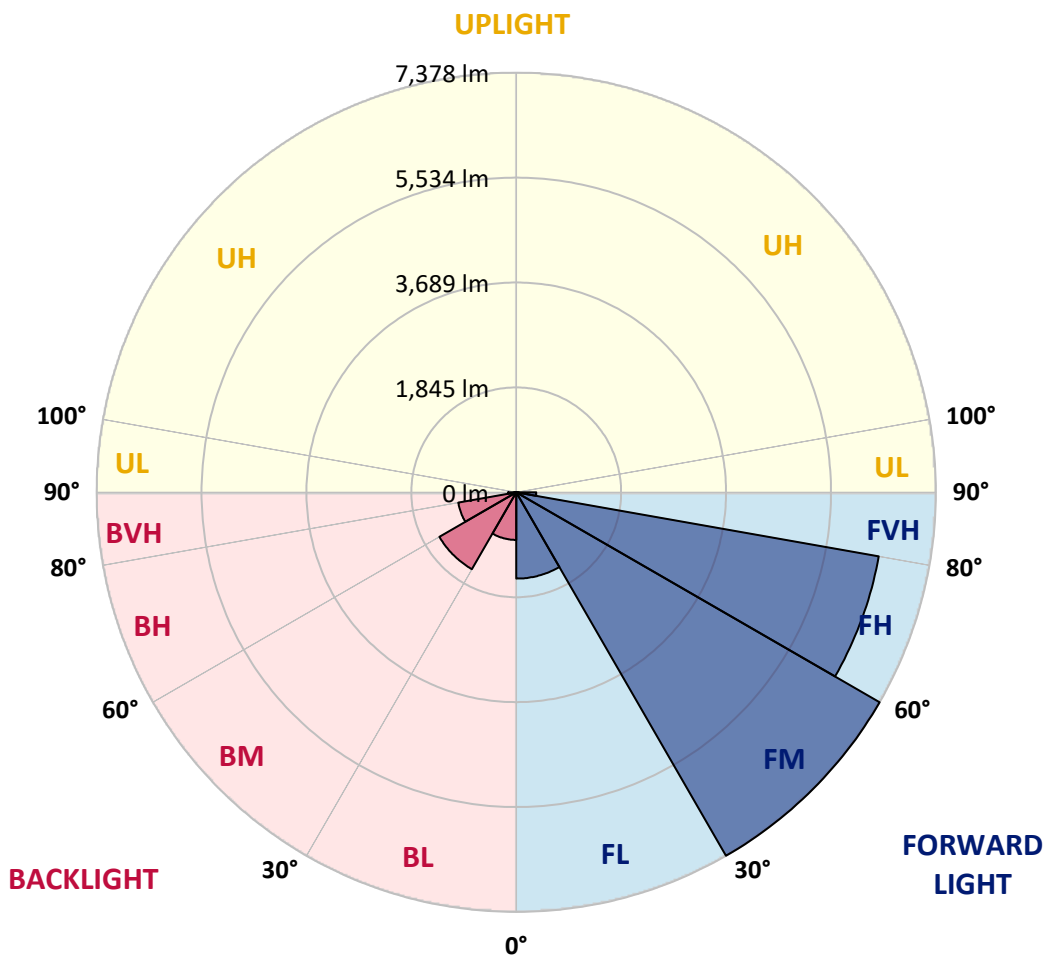


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1517.0 | 7.9 | | | |
| FM (30°-60°) | 7378.2 | 38.2 | | | |
| FH (60°-80°) | 6472.1 | 33.5 | | | G3/7500 |
| FVH (80°-90°) | 351.6 | 1.8 | | | G3/500 |
| BL (0°-30°) | 836.9 | 4.3 | B2/1000 | | |
| BM (30°-60°) | 1560.6 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 1035.8 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 146.8 | 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° | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 |
| 2.5° | 2622.8 | 2618.8 | 2604.9 | 2604.9 | 2578.3 | 2555.7 | 2513.2 | 2484.6 | 2450.7 | 2438.7 | 2398.9 |
| 5° | 2876.6 | 2878.0 | 2860.7 | 2848.7 | 2809.5 | 2761.7 | 2689.3 | 2623.5 | 2557.7 | 2531.1 | 2449.4 |
| 7.5° | 3090.0 | 3087.3 | 3082.6 | 3072.7 | 3036.1 | 2987.0 | 2889.3 | 2791.6 | 2694.6 | 2654.7 | 2513.8 |
| 10° | 3226.8 | 3232.8 | 3236.8 | 3241.5 | 3226.2 | 3191.0 | 3098.6 | 2979.6 | 2852.7 | 2798.2 | 2590.9 |
| 12.5° | 3296.0 | 3306.6 | 3325.2 | 3357.1 | 3382.3 | 3378.3 | 3311.2 | 3185.0 | 3034.1 | 2965.7 | 2687.3 |
| 15° | 3336.5 | 3350.4 | 3379.7 | 3436.8 | 3507.9 | 3548.5 | 3530.5 | 3416.2 | 3248.1 | 3163.7 | 2804.9 |
| 17.5° | 3361.7 | 3373.0 | 3418.2 | 3494.6 | 3600.3 | 3707.9 | 3755.1 | 3659.4 | 3490.0 | 3393.6 | 2939.8 |
| 20° | 3379.0 | 3387.7 | 3444.1 | 3533.8 | 3670.7 | 3842.2 | 3973.7 | 3949.8 | 3756.5 | 3631.5 | 3080.7 |
| 22.5° | 3417.6 | 3424.9 | 3478.7 | 3569.1 | 3720.6 | 3941.9 | 4184.4 | 4220.3 | 4037.5 | 3896.0 | 3231.5 |
| 25° | 3525.2 | 3525.2 | 3570.4 | 3633.5 | 3775.7 | 4028.2 | 4362.5 | 4521.3 | 4324.6 | 4159.8 | 3371.0 |
| 27.5° | 3730.5 | 3728.5 | 3745.2 | 3767.1 | 3874.7 | 4116.0 | 4521.3 | 4787.1 | 4622.3 | 4442.2 | 3506.6 |
| 30° | 3973.7 | 3987.0 | 3989.0 | 3978.4 | 4028.9 | 4225.6 | 4668.2 | 5067.5 | 4922.0 | 4728.0 | 3645.5 |
| 32.5° | 4286.7 | 4295.4 | 4285.4 | 4250.2 | 4242.9 | 4381.1 | 4812.4 | 5361.2 | 5246.3 | 5026.3 | 3772.4 |
| 35° | 4684.1 | 4667.5 | 4636.3 | 4564.5 | 4496.0 | 4589.1 | 4977.2 | 5654.9 | 5610.4 | 5387.2 | 3947.2 |
| 37.5° | 5110.1 | 5110.7 | 5072.2 | 4909.4 | 4815.0 | 4854.9 | 5204.4 | 5987.9 | 6051.0 | 5816.4 | 4171.1 |
| 40° | 5451.6 | 5469.6 | 5493.5 | 5279.5 | 5157.2 | 5212.4 | 5493.5 | 6373.9 | 6572.0 | 6325.4 | 4462.8 |
| 42.5° | 5690.2 | 5710.8 | 5778.5 | 5644.3 | 5517.4 | 5619.7 | 5833.7 | 6785.9 | 7156.7 | 6912.9 | 4804.4 |
| 45° | 5942.7 | 5954.0 | 6001.8 | 5944.0 | 5862.9 | 6093.5 | 6217.1 | 7212.5 | 7775.4 | 7538.8 | 5186.5 |
| 47.5° | 6208.5 | 6220.4 | 6269.6 | 6231.1 | 6188.5 | 6536.1 | 6617.2 | 7614.6 | 8368.1 | 8226.6 | 5594.5 |
| 50° | 6536.7 | 6544.7 | 6591.2 | 6521.5 | 6534.8 | 6869.7 | 6974.7 | 7983.4 | 8989.4 | 8844.6 | 6003.8 |
| 52.5° | 6984.6 | 6986.6 | 7051.1 | 6987.9 | 6925.5 | 7114.2 | 7282.3 | 8330.9 | 9476.5 | 9408.1 | 6413.1 |
| 55° | 7335.5 | 7356.7 | 7568.1 | 7554.8 | 7518.9 | 7336.1 | 7539.5 | 8661.8 | 9911.1 | 9943.7 | 6847.7 |
| 57.5° | 7111.5 | 7194.6 | 7622.6 | 7924.2 | 8217.9 | 7888.4 | 7887.0 | 9034.6 | 10315.1 | 10469.3 | 7325.5 |
| 60° | 6228.4 | 6341.4 | 6972.0 | 7641.2 | 8560.2 | 8849.2 | 8608.7 | 9489.8 | 10723.1 | 10990.3 | 7924.2 |
| 62.5° | 4448.2 | 4634.3 | 5488.8 | 6557.3 | 8091.0 | 9485.8 | 10077.2 | 10212.1 | 11278.0 | 11593.6 | 8702.4 |
| 65° | 2248.7 | 2389.6 | 3105.9 | 4393.1 | 6464.3 | 9069.8 | 11673.4 | 11793.7 | 12242.2 | 12522.6 | 9900.5 |
| 67.5° | 1366.2 | 1419.4 | 1768.9 | 2443.4 | 3963.1 | 7065.0 | 12194.4 | 14429.8 | 14108.1 | 14257.0 | 11608.9 |
| 70° | 1006.7 | 1045.9 | 1263.9 | 1622.7 | 2279.3 | 4145.9 | 10595.6 | 16311.0 | 16099.7 | 16083.0 | 12871.5 |
| 72° | 784.1 | 812.7 | 1005.4 | 1311.1 | 1666.6 | 2487.2 | 7679.7 | 15616.6 | 16669.8 | 16586.1 | 12755.9 |
| 72.5° | 743.6 | 768.8 | 944.3 | 1234.0 | 1574.9 | 2254.7 | 6904.9 | 15148.1 | 16628.6 | 16590.7 | 12606.3 |
| 75° | 585.4 | 603.4 | 699.1 | 954.2 | 1232.7 | 1279.2 | 3783.7 | 11739.2 | 14751.4 | 15364.7 | 11338.5 |
| 77.5° | 484.4 | 487.1 | 537.6 | 694.4 | 960.9 | 904.4 | 1858.6 | 8144.9 | 10563.0 | 11237.5 | 8031.9 |
| 80° | 394.7 | 398.0 | 422.0 | 487.1 | 727.0 | 669.2 | 882.5 | 4683.4 | 5914.1 | 5921.4 | 3819.6 |
| 82.5° | 314.3 | 315.0 | 341.6 | 356.2 | 522.3 | 478.4 | 505.7 | 2198.9 | 2584.3 | 2485.9 | 1372.9 |
| 85° | 221.3 | 216.6 | 333.6 | 292.4 | 341.6 | 307.0 | 279.1 | 870.5 | 1068.5 | 1022.0 | 429.9 |
| 87.5° | 73.8 | 76.4 | 148.2 | 189.4 | 199.4 | 174.1 | 124.3 | 333.6 | 403.4 | 400.0 | 136.2 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 |
| 2.5° | 2386.2 | 2365.0 | 2333.7 | 2299.2 | 2271.9 | 2244.0 | 2223.4 | 2212.8 | 2200.8 | 2190.9 | 2202.8 |
| 5° | 2411.5 | 2371.6 | 2305.2 | 2240.1 | 2192.2 | 2149.7 | 2119.1 | 2103.2 | 2088.5 | 2078.6 | 2079.9 |
| 7.5° | 2452.7 | 2388.2 | 2276.6 | 2181.6 | 2115.1 | 2069.3 | 2038.0 | 2027.4 | 2018.1 | 2015.4 | 2018.8 |
| 10° | 2496.5 | 2401.5 | 2238.7 | 2112.5 | 2036.7 | 1998.8 | 1984.9 | 1992.2 | 1998.8 | 2004.8 | 2011.5 |
| 12.5° | 2546.4 | 2413.5 | 2183.6 | 2031.4 | 1966.9 | 1952.3 | 1966.3 | 1998.2 | 2021.4 | 2035.4 | 2044.0 |
| 15° | 2611.5 | 2424.1 | 2119.8 | 1950.3 | 1907.1 | 1923.7 | 1970.9 | 2026.1 | 2066.6 | 2092.5 | 2096.5 |
| 17.5° | 2671.3 | 2423.5 | 2038.0 | 1868.6 | 1858.6 | 1907.1 | 1978.2 | 2056.0 | 2110.5 | 2147.0 | 2154.3 |
| 20° | 2733.1 | 2405.5 | 1943.0 | 1788.9 | 1809.5 | 1889.2 | 1981.6 | 2075.3 | 2141.0 | 2183.6 | 2193.5 |
| 22.5° | 2790.9 | 2374.3 | 1838.7 | 1716.4 | 1768.3 | 1865.3 | 1968.9 | 2064.0 | 2129.7 | 2164.3 | 2174.9 |
| 25° | 2830.1 | 2319.8 | 1733.0 | 1655.3 | 1731.7 | 1836.0 | 1927.7 | 2004.2 | 2053.3 | 2070.6 | 2073.3 |
| 27.5° | 2850.1 | 2248.7 | 1633.4 | 1602.1 | 1693.8 | 1788.2 | 1851.3 | 1889.2 | 1903.1 | 1901.8 | 1899.2 |
| 30° | 2852.7 | 2155.0 | 1547.6 | 1558.9 | 1650.0 | 1717.7 | 1747.7 | 1740.3 | 1722.4 | 1691.8 | 1694.5 |
| 32.5° | 2844.1 | 2049.3 | 1475.9 | 1517.7 | 1594.2 | 1632.0 | 1633.4 | 1598.1 | 1550.3 | 1501.8 | 1488.5 |
| 35° | 2846.7 | 1945.7 | 1412.7 | 1471.2 | 1526.4 | 1543.0 | 1527.7 | 1475.9 | 1410.7 | 1348.3 | 1335.0 |
| 37.5° | 2876.0 | 1855.3 | 1358.3 | 1417.4 | 1451.3 | 1455.3 | 1433.3 | 1378.9 | 1331.0 | 1269.9 | 1264.6 |
| 40° | 2945.8 | 1790.8 | 1306.4 | 1356.9 | 1376.2 | 1378.2 | 1347.0 | 1308.4 | 1312.4 | 1279.8 | 1279.2 |
| 42.5° | 3071.3 | 1762.9 | 1260.6 | 1293.8 | 1305.8 | 1309.7 | 1285.8 | 1261.2 | 1295.8 | 1274.5 | 1267.2 |
| 45° | 3233.5 | 1769.6 | 1222.0 | 1232.0 | 1253.9 | 1272.5 | 1257.9 | 1228.0 | 1241.3 | 1148.9 | 1118.4 |
| 47.5° | 3420.9 | 1812.1 | 1191.5 | 1178.8 | 1216.7 | 1251.9 | 1229.3 | 1184.1 | 1137.0 | 1045.3 | 1028.0 |
| 50° | 3640.2 | 1877.9 | 1163.6 | 1126.3 | 1176.2 | 1224.0 | 1201.4 | 1137.0 | 1065.9 | 1021.3 | 1015.4 |
| 52.5° | 3868.8 | 1958.3 | 1135.6 | 1068.5 | 1125.0 | 1202.8 | 1191.5 | 1126.3 | 1038.6 | 994.8 | 986.8 |
| 55° | 4127.9 | 2039.4 | 1100.4 | 1001.4 | 1069.9 | 1192.8 | 1186.8 | 1087.8 | 1018.0 | 993.4 | 987.5 |
| 57.5° | 4450.2 | 2131.7 | 1053.9 | 931.6 | 1018.0 | 1156.9 | 1138.3 | 1064.5 | 996.8 | 978.2 | 976.2 |
| 60° | 4870.2 | 2268.0 | 986.8 | 857.2 | 954.9 | 1101.8 | 1097.8 | 1030.6 | 962.9 | 949.6 | 946.9 |
| 62.5° | 5500.1 | 2493.2 | 894.4 | 782.8 | 884.5 | 1008.1 | 1044.6 | 984.8 | 927.0 | 926.3 | 927.7 |
| 65° | 6476.9 | 2832.1 | 794.1 | 717.7 | 813.4 | 929.0 | 982.8 | 937.6 | 890.4 | 903.7 | 905.7 |
| 67.5° | 7609.3 | 3113.2 | 695.7 | 653.9 | 740.9 | 853.9 | 927.0 | 890.4 | 841.9 | 876.5 | 877.1 |
| 70° | 7986.0 | 2862.0 | 609.4 | 590.7 | 665.8 | 781.5 | 866.5 | 838.6 | 789.4 | 824.0 | 820.7 |
| 72° | 7431.8 | 2310.5 | 553.5 | 542.9 | 609.4 | 721.7 | 812.7 | 790.1 | 741.6 | 764.8 | 756.2 |
| 72.5° | 7257.1 | 2202.8 | 539.6 | 530.9 | 594.1 | 706.4 | 798.7 | 778.1 | 729.6 | 749.6 | 741.6 |
| 75° | 6473.6 | 1913.1 | 463.8 | 465.8 | 518.3 | 631.9 | 720.3 | 713.7 | 663.8 | 665.8 | 663.2 |
| 77.5° | 4695.4 | 1402.8 | 390.7 | 404.0 | 441.2 | 555.5 | 641.2 | 637.3 | 582.8 | 572.8 | 570.8 |
| 80° | 2178.9 | 715.7 | 318.3 | 324.3 | 362.8 | 464.5 | 546.9 | 541.6 | 497.7 | 485.1 | 477.8 |
| 82.5° | 746.2 | 340.2 | 239.2 | 243.2 | 281.1 | 374.1 | 474.5 | 471.1 | 434.6 | 410.0 | 394.7 |
| 85° | 266.5 | 169.4 | 167.5 | 163.5 | 200.7 | 294.4 | 413.3 | 395.4 | 341.6 | 291.1 | 289.7 |
| 87.5° | 86.4 | 72.4 | 86.4 | 85.7 | 117.0 | 199.4 | 300.4 | 255.8 | 247.9 | 206.0 | 202.0 |
| 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)