

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: P192161

Luminaire Tested: **GAN-AF-03-LED-U-T2-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-T2-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14408 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

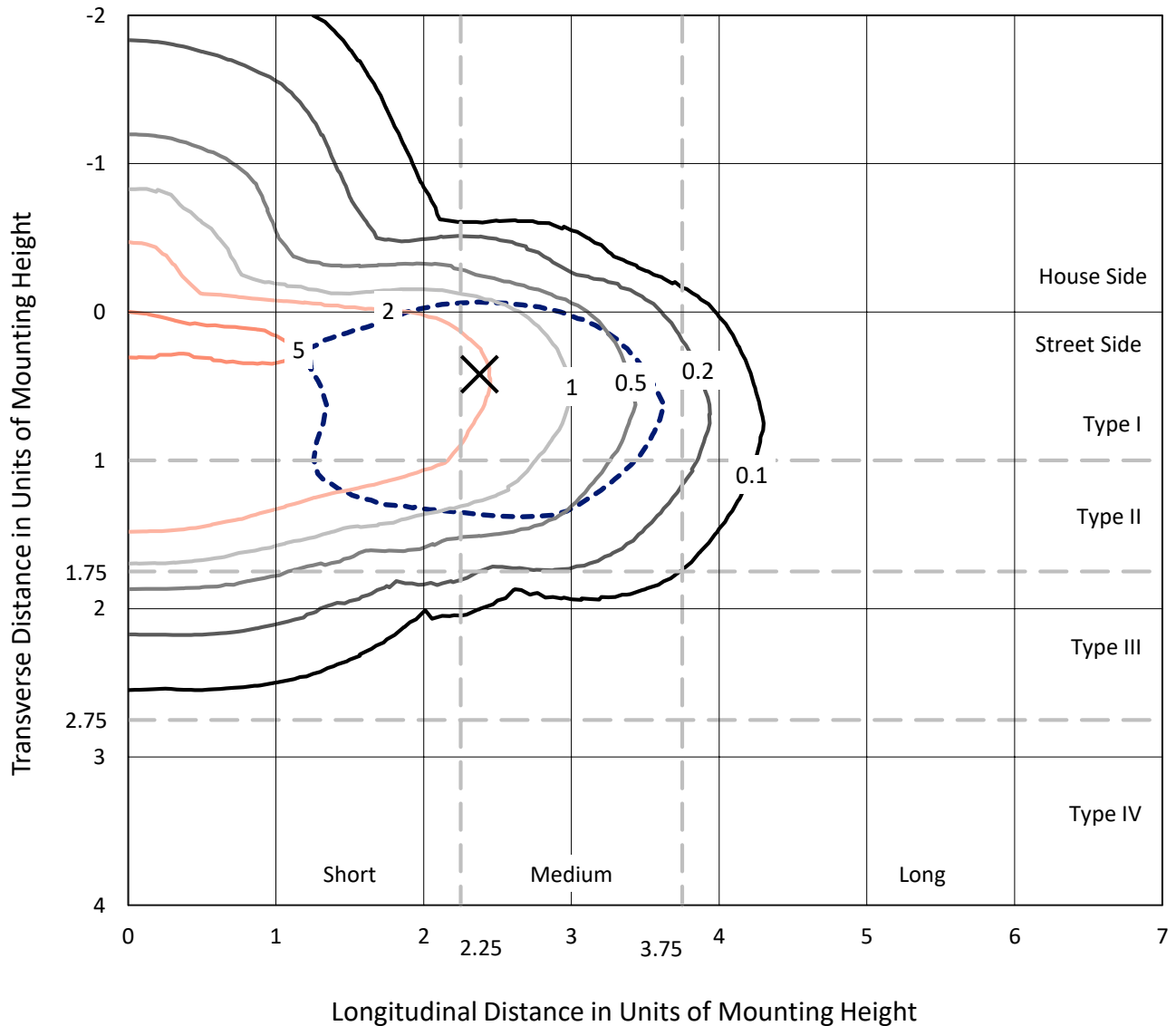
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

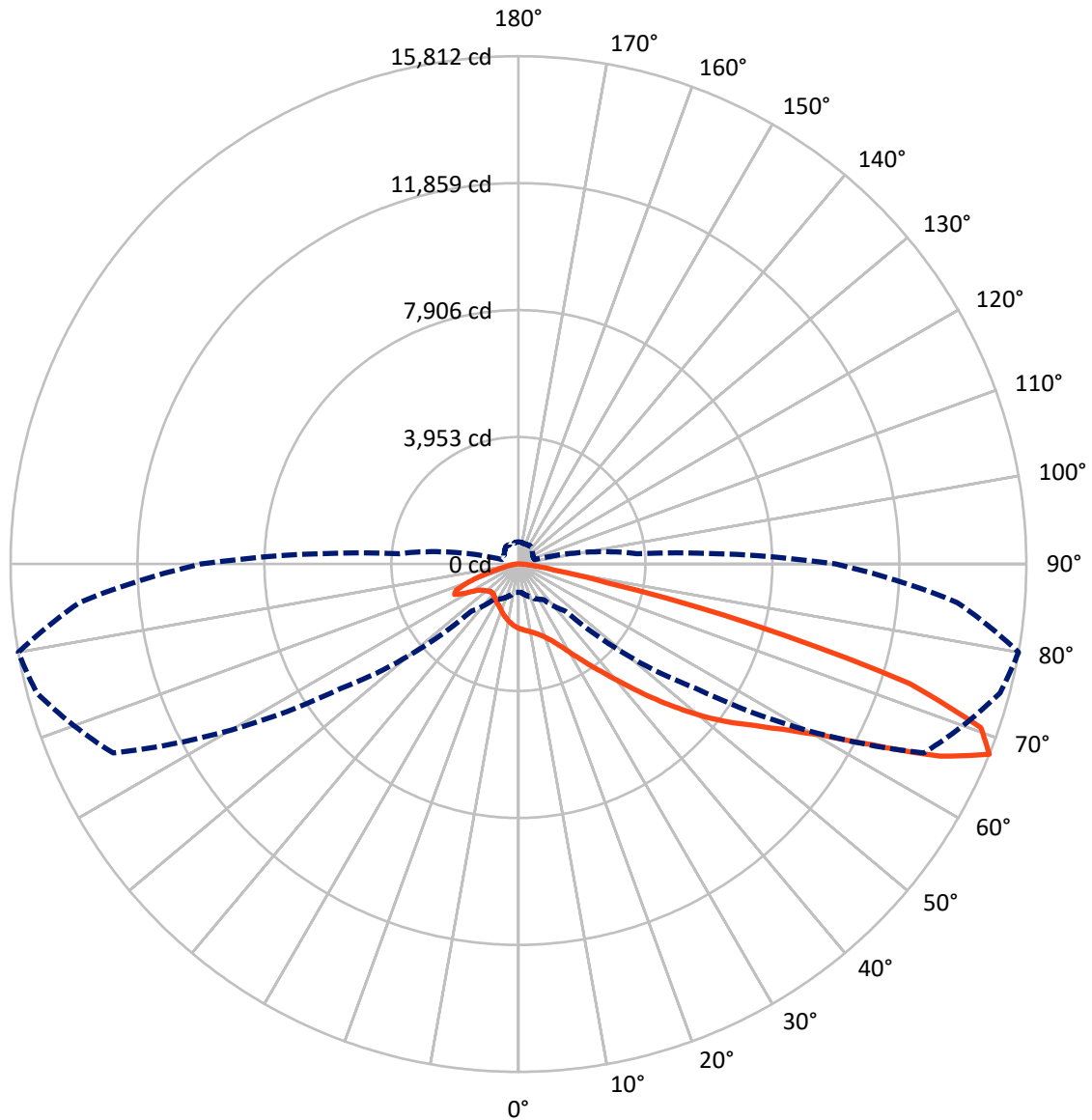
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2653.4 | 0.0 | 2653.4 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 11754.6 | 0.0 | 11754.6 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 14408.0 | 0.0 | 14408.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 184.6 | 1.3 |
| 10°-20° | 531.9 | 3.7 |
| 20°-30° | 880.4 | 6.1 |
| 30°-40° | 1440.2 | 10.0 |
| 40°-50° | 2325.3 | 16.1 |
| 50°-60° | 3357.0 | 23.3 |
| 60°-70° | 3704.7 | 25.7 |
| 70°-80° | 1707.6 | 11.9 |
| 80°-90° | 276.2 | 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° | 14408.0 | 100.0 |
| 0°-180° | 14408.0 | 100.0 |

Coefficient of Utilization



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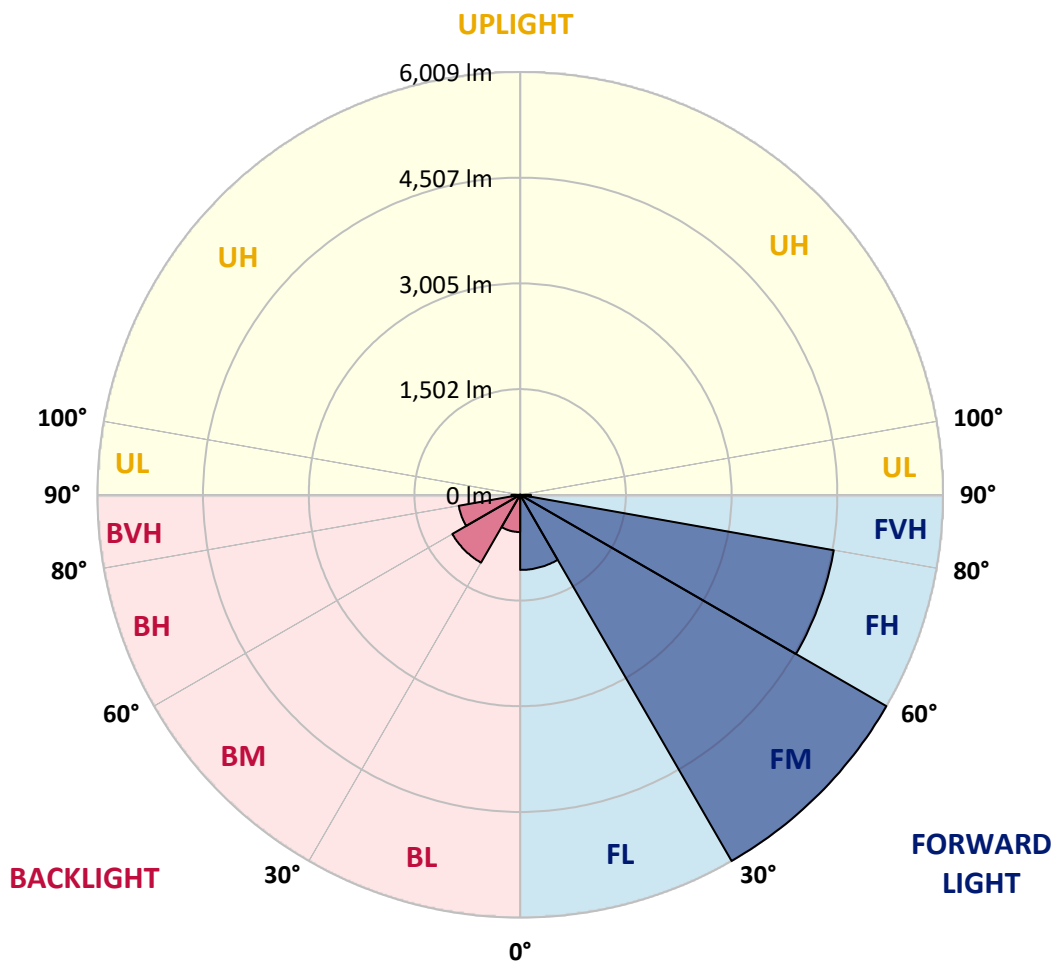
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1067.6 | 7.4 | | | |
| FM | (30°-60°) | 6009.2 | 41.7 | | | |
| FH | (60°-80°) | 4525.9 | 31.4 | | | G2/5000 |
| FVH | (80°-90°) | 151.9 | 1.1 | | | G2/225 |
| BL | (0°-30°) | 529.4 | 3.7 | B2/1000 | | |
| BM | (30°-60°) | 1113.3 | 7.7 | B2/2500 | | |
| BH | (60°-80°) | 886.4 | 6.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 124.4 | 0.9 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 2001.7 | 2001.7 | 2001.7 | 2001.7 | 2001.7 | 2001.7 | 2001.7 | 2001.7 | 2001.7 | 2001.7 | 2001.7 |
| 2.5° | 2189.7 | 2176.9 | 2179.0 | 2175.5 | 2164.8 | 2146.4 | 2126.5 | 2090.4 | 2052.8 | 2032.9 | 2017.3 |
| 5° | 2372.7 | 2369.1 | 2364.2 | 2352.8 | 2325.8 | 2287.5 | 2240.0 | 2176.2 | 2107.4 | 2071.2 | 2036.4 |
| 7.5° | 2509.6 | 2507.4 | 2501.0 | 2494.0 | 2467.7 | 2421.6 | 2350.0 | 2259.2 | 2159.2 | 2109.5 | 2055.6 |
| 10° | 2520.9 | 2524.5 | 2529.4 | 2548.6 | 2552.1 | 2527.3 | 2454.2 | 2344.3 | 2213.1 | 2149.2 | 2080.4 |
| 12.5° | 2424.4 | 2432.2 | 2451.4 | 2500.3 | 2552.1 | 2582.6 | 2545.0 | 2433.7 | 2276.2 | 2198.9 | 2111.6 |
| 15° | 2296.8 | 2301.0 | 2324.4 | 2391.8 | 2484.7 | 2579.1 | 2614.5 | 2532.3 | 2357.8 | 2262.7 | 2158.4 |
| 17.5° | 2242.1 | 2244.3 | 2260.6 | 2305.3 | 2391.8 | 2526.6 | 2653.6 | 2639.4 | 2457.8 | 2342.2 | 2215.9 |
| 20° | 2214.5 | 2219.5 | 2242.9 | 2286.8 | 2341.5 | 2459.2 | 2659.2 | 2755.0 | 2576.9 | 2441.5 | 2288.3 |
| 22.5° | 2293.2 | 2291.1 | 2299.6 | 2321.6 | 2367.7 | 2438.6 | 2655.0 | 2874.1 | 2728.7 | 2569.1 | 2382.6 |
| 25° | 2476.9 | 2484.7 | 2469.8 | 2445.0 | 2459.9 | 2509.6 | 2677.7 | 3003.2 | 2918.8 | 2733.0 | 2506.0 |
| 27.5° | 2738.7 | 2730.9 | 2708.9 | 2650.7 | 2620.2 | 2641.5 | 2752.9 | 3142.3 | 3155.0 | 2948.6 | 2669.2 |
| 30° | 2999.7 | 2993.3 | 2972.0 | 2901.1 | 2838.7 | 2821.0 | 2899.0 | 3301.9 | 3436.6 | 3207.5 | 2869.2 |
| 32.5° | 3270.7 | 3263.6 | 3243.7 | 3172.8 | 3097.6 | 3056.4 | 3106.8 | 3486.3 | 3768.6 | 3516.8 | 3104.7 |
| 35° | 3604.7 | 3591.3 | 3549.4 | 3450.8 | 3377.1 | 3345.1 | 3368.5 | 3718.2 | 4151.6 | 3882.8 | 3390.5 |
| 37.5° | 3919.0 | 3939.5 | 3897.0 | 3760.8 | 3665.0 | 3653.7 | 3679.9 | 4001.3 | 4564.4 | 4292.1 | 3718.9 |
| 40° | 4234.6 | 4238.2 | 4199.9 | 4088.5 | 3989.9 | 3971.5 | 4037.4 | 4344.6 | 5051.7 | 4781.5 | 4118.3 |
| 42.5° | 4560.9 | 4568.0 | 4503.4 | 4400.6 | 4328.2 | 4331.8 | 4407.0 | 4746.7 | 5610.7 | 5358.2 | 4577.9 |
| 45° | 4947.5 | 4958.1 | 4887.2 | 4752.4 | 4686.5 | 4819.1 | 4787.9 | 5197.9 | 6223.5 | 6013.6 | 5105.7 |
| 47.5° | 5351.8 | 5368.1 | 5314.2 | 5187.9 | 5105.7 | 5288.0 | 5168.8 | 5697.9 | 6883.2 | 6716.5 | 5685.2 |
| 50° | 5572.4 | 5595.8 | 5648.3 | 5639.1 | 5621.3 | 5590.8 | 5593.7 | 6234.2 | 7563.4 | 7448.5 | 6281.0 |
| 52.5° | 5453.9 | 5453.2 | 5644.7 | 5877.4 | 6125.7 | 6144.1 | 6111.5 | 6799.5 | 8199.0 | 8164.2 | 6842.1 |
| 55° | 4912.0 | 4948.9 | 5239.0 | 5689.4 | 6367.5 | 6791.0 | 6887.5 | 7447.1 | 8823.2 | 8863.6 | 7411.6 |
| 57.5° | 4009.8 | 4040.3 | 4431.8 | 5059.6 | 6041.2 | 7175.4 | 7991.2 | 8388.4 | 9521.2 | 9709.8 | 8169.9 |
| 60° | 2719.5 | 2756.4 | 3171.4 | 3925.4 | 5163.1 | 6961.2 | 9041.7 | 10068.0 | 10356.7 | 10785.9 | 9233.9 |
| 62.5° | 1598.1 | 1631.4 | 1969.8 | 2476.2 | 3635.2 | 5966.1 | 9502.7 | 12457.7 | 11683.9 | 12409.5 | 10856.8 |
| 65° | 1100.1 | 1122.8 | 1287.4 | 1541.3 | 2088.9 | 4018.3 | 8931.0 | 14107.6 | 13726.0 | 14421.1 | 12738.6 |
| 67.5° | 885.2 | 882.4 | 1012.9 | 1186.0 | 1344.9 | 2071.9 | 6753.4 | 13921.0 | 15522.0 | 15812.1 | 13715.3 |
| 70° | 729.2 | 726.3 | 815.0 | 958.3 | 1074.6 | 1166.8 | 3678.5 | 11747.7 | 15156.0 | 15273.7 | 12815.9 |
| 72.5° | 610.0 | 612.8 | 669.6 | 776.0 | 881.7 | 878.8 | 1616.5 | 8264.2 | 11922.9 | 12737.2 | 10216.3 |
| 75° | 515.0 | 516.4 | 554.0 | 629.2 | 715.7 | 707.9 | 876.7 | 4477.2 | 6930.7 | 7497.5 | 5663.2 |
| 77.5° | 438.4 | 439.8 | 463.9 | 505.7 | 567.5 | 564.6 | 639.8 | 1934.3 | 2891.2 | 2855.7 | 1937.1 |
| 80° | 390.8 | 390.8 | 402.2 | 410.0 | 444.0 | 431.3 | 474.5 | 929.2 | 1222.2 | 1128.5 | 773.2 |
| 82.5° | 306.4 | 307.8 | 377.4 | 374.5 | 349.7 | 333.4 | 333.4 | 547.6 | 647.6 | 598.7 | 452.5 |
| 85° | 172.4 | 171.7 | 243.3 | 293.7 | 307.8 | 234.8 | 232.7 | 306.4 | 352.5 | 310.7 | 219.2 |
| 87.5° | 73.8 | 75.2 | 112.8 | 130.5 | 174.5 | 146.1 | 144.0 | 158.2 | 179.5 | 155.3 | 101.4 |
| 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° | 2001.7 | 2001.7 | 2001.7 | 2001.7 | 2001.7 | 2001.7 | 2001.7 | 2001.7 | 2001.7 | 2001.7 | 2001.7 |
| 2.5° | 2002.4 | 1984.0 | 1943.5 | 1893.2 | 1847.8 | 1818.0 | 1791.0 | 1752.0 | 1754.1 | 1727.2 | 1707.3 |
| 5° | 2001.0 | 1962.7 | 1869.0 | 1757.7 | 1650.6 | 1573.3 | 1515.1 | 1462.6 | 1449.8 | 1425.0 | 1410.1 |
| 7.5° | 2002.4 | 1940.0 | 1782.5 | 1604.5 | 1471.8 | 1373.9 | 1324.3 | 1296.6 | 1290.2 | 1281.7 | 1282.4 |
| 10° | 2007.4 | 1919.4 | 1687.5 | 1461.2 | 1322.2 | 1257.6 | 1245.6 | 1254.1 | 1264.0 | 1266.8 | 1267.5 |
| 12.5° | 2018.7 | 1901.0 | 1583.2 | 1333.5 | 1228.5 | 1208.7 | 1229.2 | 1258.3 | 1277.5 | 1286.7 | 1286.0 |
| 15° | 2044.2 | 1886.8 | 1483.2 | 1233.5 | 1176.8 | 1187.4 | 1225.7 | 1266.8 | 1294.5 | 1307.3 | 1308.0 |
| 17.5° | 2071.9 | 1866.2 | 1380.3 | 1156.9 | 1138.5 | 1165.4 | 1212.9 | 1261.2 | 1295.2 | 1309.4 | 1312.2 |
| 20° | 2108.1 | 1840.7 | 1272.5 | 1099.4 | 1102.3 | 1132.8 | 1177.5 | 1225.7 | 1263.3 | 1275.4 | 1281.0 |
| 22.5° | 2155.6 | 1813.0 | 1178.2 | 1052.6 | 1061.1 | 1084.5 | 1119.3 | 1161.2 | 1193.8 | 1199.5 | 1204.4 |
| 25° | 2219.5 | 1783.2 | 1103.0 | 1010.1 | 1013.6 | 1027.1 | 1050.5 | 1075.3 | 1098.0 | 1091.6 | 1096.6 |
| 27.5° | 2305.3 | 1757.7 | 1047.0 | 971.1 | 964.7 | 967.5 | 979.6 | 987.4 | 999.4 | 981.7 | 983.8 |
| 30° | 2406.0 | 1730.0 | 1003.7 | 937.0 | 919.3 | 914.3 | 917.1 | 921.4 | 930.6 | 906.5 | 903.0 |
| 32.5° | 2523.0 | 1696.7 | 963.3 | 907.2 | 882.4 | 872.5 | 873.9 | 885.2 | 920.7 | 905.8 | 898.0 |
| 35° | 2659.2 | 1659.1 | 920.7 | 874.6 | 857.6 | 843.4 | 842.0 | 877.4 | 983.1 | 973.9 | 966.8 |
| 37.5° | 2818.8 | 1621.5 | 878.1 | 837.7 | 839.1 | 823.5 | 818.6 | 859.0 | 995.2 | 959.0 | 954.0 |
| 40° | 3021.7 | 1601.6 | 842.0 | 798.7 | 816.4 | 814.3 | 804.4 | 824.9 | 915.7 | 849.8 | 841.2 |
| 42.5° | 3272.8 | 1604.5 | 815.0 | 756.8 | 789.5 | 812.2 | 796.6 | 797.3 | 829.9 | 780.2 | 772.4 |
| 45° | 3582.8 | 1637.8 | 795.9 | 723.5 | 759.0 | 810.0 | 793.7 | 782.4 | 785.2 | 759.0 | 754.7 |
| 47.5° | 3944.5 | 1706.6 | 782.4 | 695.8 | 729.9 | 802.2 | 793.0 | 778.1 | 771.7 | 757.5 | 754.0 |
| 50° | 4346.7 | 1806.6 | 772.4 | 669.6 | 703.6 | 789.5 | 793.7 | 773.9 | 766.8 | 761.1 | 759.0 |
| 52.5° | 4741.8 | 1920.8 | 757.5 | 646.9 | 683.1 | 773.9 | 795.9 | 769.6 | 761.8 | 757.5 | 755.4 |
| 55° | 5182.3 | 2063.4 | 734.9 | 627.7 | 666.0 | 754.0 | 795.9 | 763.2 | 754.7 | 755.4 | 754.7 |
| 57.5° | 5777.4 | 2293.9 | 707.9 | 611.4 | 645.5 | 729.9 | 782.4 | 756.1 | 745.5 | 746.2 | 746.9 |
| 60° | 6707.3 | 2700.4 | 675.3 | 595.1 | 619.9 | 701.5 | 763.9 | 740.5 | 729.9 | 732.7 | 733.4 |
| 62.5° | 8074.9 | 3296.9 | 632.7 | 571.0 | 593.0 | 671.0 | 738.4 | 720.7 | 710.0 | 717.1 | 717.1 |
| 65° | 9496.3 | 3823.2 | 580.2 | 540.5 | 564.6 | 637.7 | 706.5 | 695.8 | 685.2 | 701.5 | 700.8 |
| 67.5° | 9878.6 | 3705.5 | 527.7 | 507.2 | 536.2 | 600.8 | 668.2 | 662.5 | 656.8 | 685.2 | 683.8 |
| 70° | 8775.7 | 2974.9 | 479.5 | 473.1 | 505.0 | 561.1 | 627.0 | 627.0 | 623.5 | 644.8 | 639.8 |
| 72.5° | 6686.0 | 2109.5 | 433.4 | 436.9 | 469.6 | 517.8 | 582.3 | 587.3 | 581.6 | 592.3 | 588.0 |
| 75° | 3579.2 | 1207.3 | 387.3 | 397.2 | 425.6 | 473.8 | 532.7 | 537.7 | 534.1 | 533.4 | 535.5 |
| 77.5° | 1189.5 | 590.2 | 339.1 | 354.7 | 379.5 | 428.4 | 480.9 | 488.7 | 480.2 | 478.8 | 478.1 |
| 80° | 529.9 | 371.0 | 285.9 | 306.4 | 328.4 | 376.6 | 426.3 | 432.7 | 423.5 | 436.2 | 419.9 |
| 82.5° | 340.5 | 244.0 | 229.1 | 251.8 | 273.1 | 324.9 | 371.7 | 373.1 | 364.6 | 423.5 | 361.0 |
| 85° | 165.3 | 151.1 | 172.4 | 192.9 | 211.4 | 255.4 | 307.8 | 308.6 | 287.3 | 261.7 | 252.5 |
| 87.5° | 82.3 | 88.0 | 114.9 | 133.4 | 142.6 | 175.2 | 224.1 | 219.9 | 210.7 | 191.5 | 176.6 |
| 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)