

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: P192162

Luminaire Tested: **GAN-AF-04-LED-U-T2-7050-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192162
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-04-LED-U-T2-7050-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 19038 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 171
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

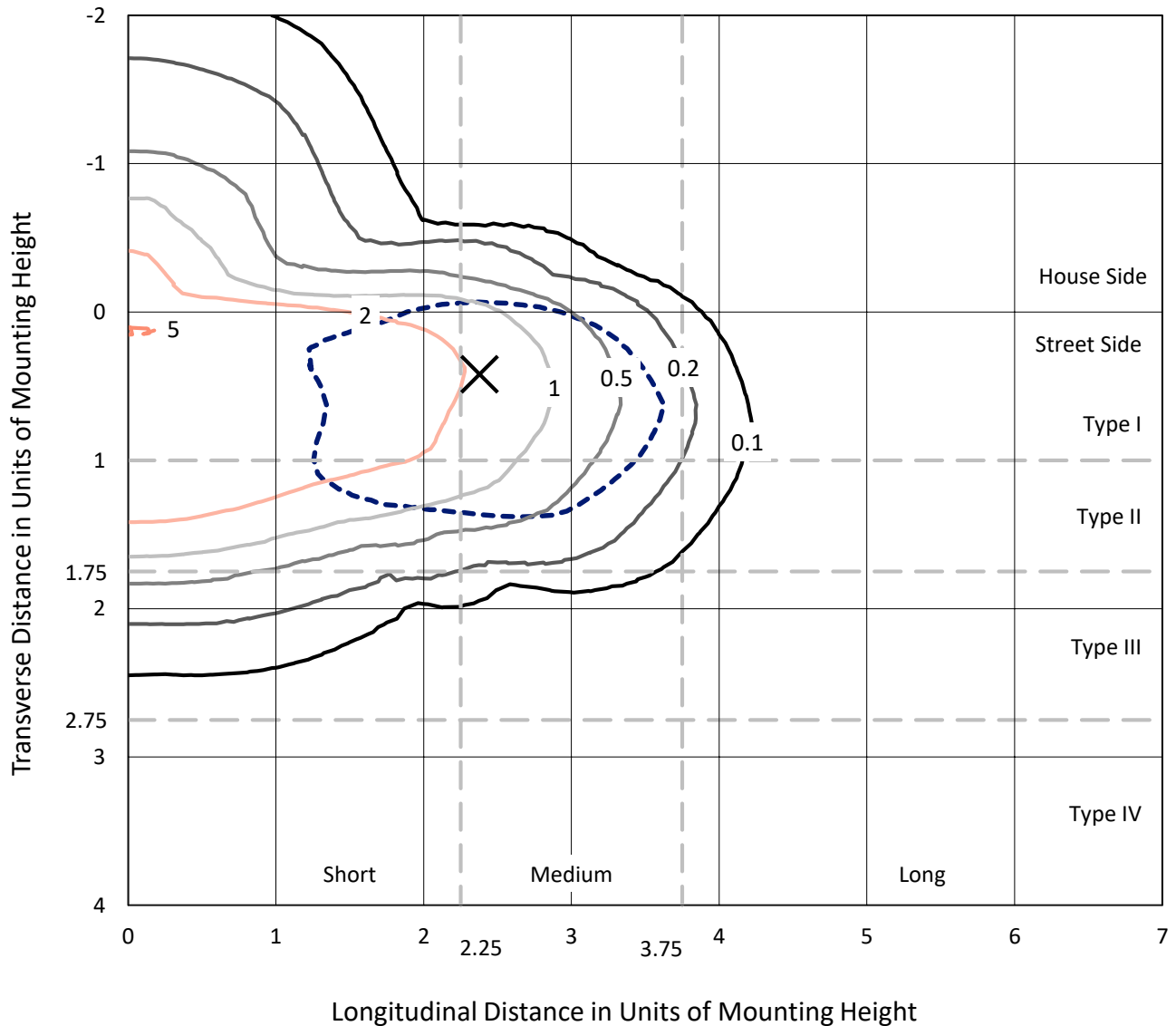


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

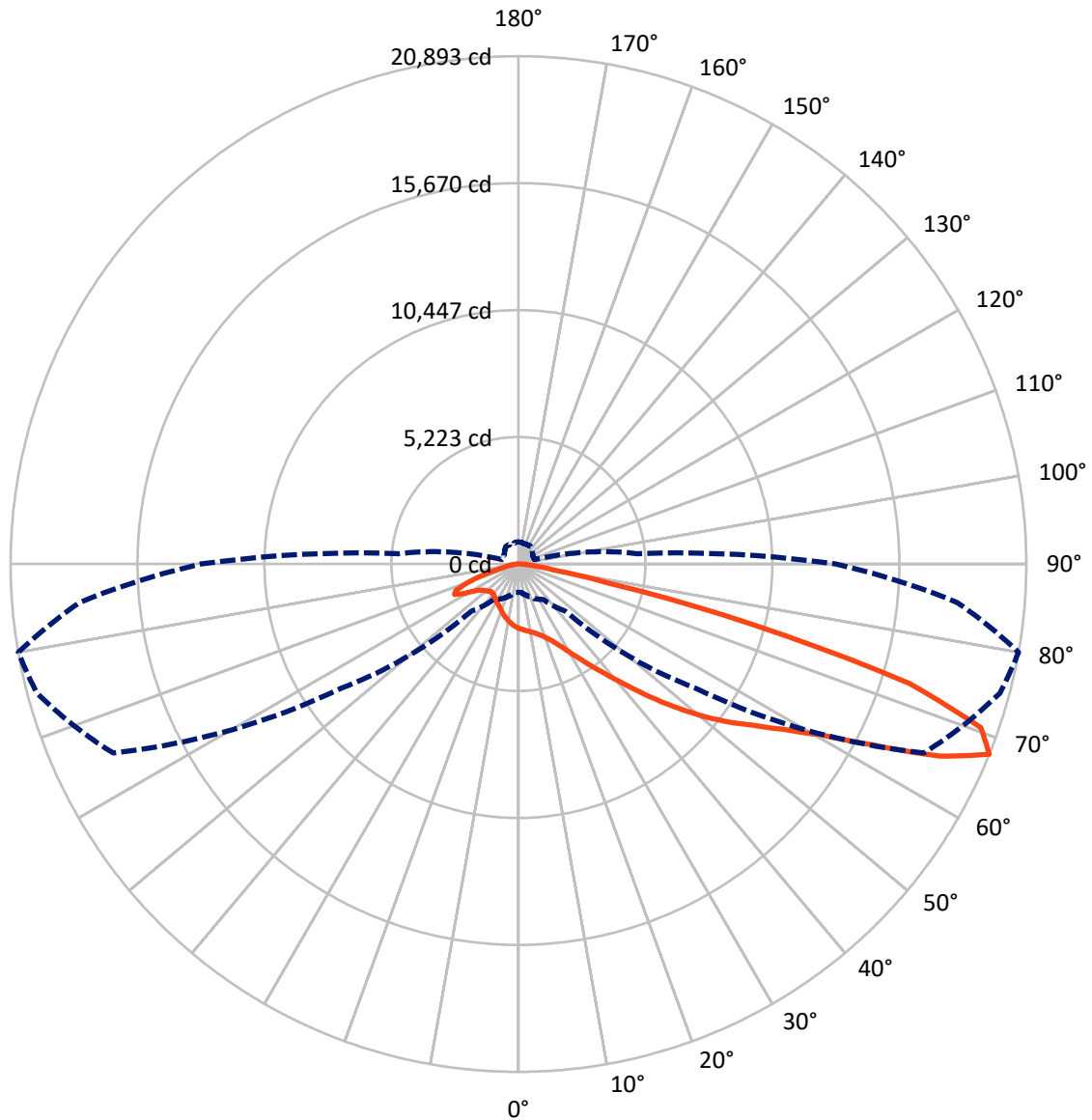


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - Full Cutoff

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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 | 3506.1 | 0.0 | 3506.1 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 15531.9 | 0.0 | 15531.9 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 19038.0 | 0.0 | 19038.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 244.0 | 1.3 |
| 10°-20° | 702.8 | 3.7 |
| 20°-30° | 1163.4 | 6.1 |
| 30°-40° | 1903.0 | 10.0 |
| 40°-50° | 3072.5 | 16.1 |
| 50°-60° | 4435.8 | 23.3 |
| 60°-70° | 4895.2 | 25.7 |
| 70°-80° | 2256.4 | 11.9 |
| 80°-90° | 365.0 | 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° | 19038.0 | 100.0 |
| 0°-180° | 19038.0 | 100.0 |



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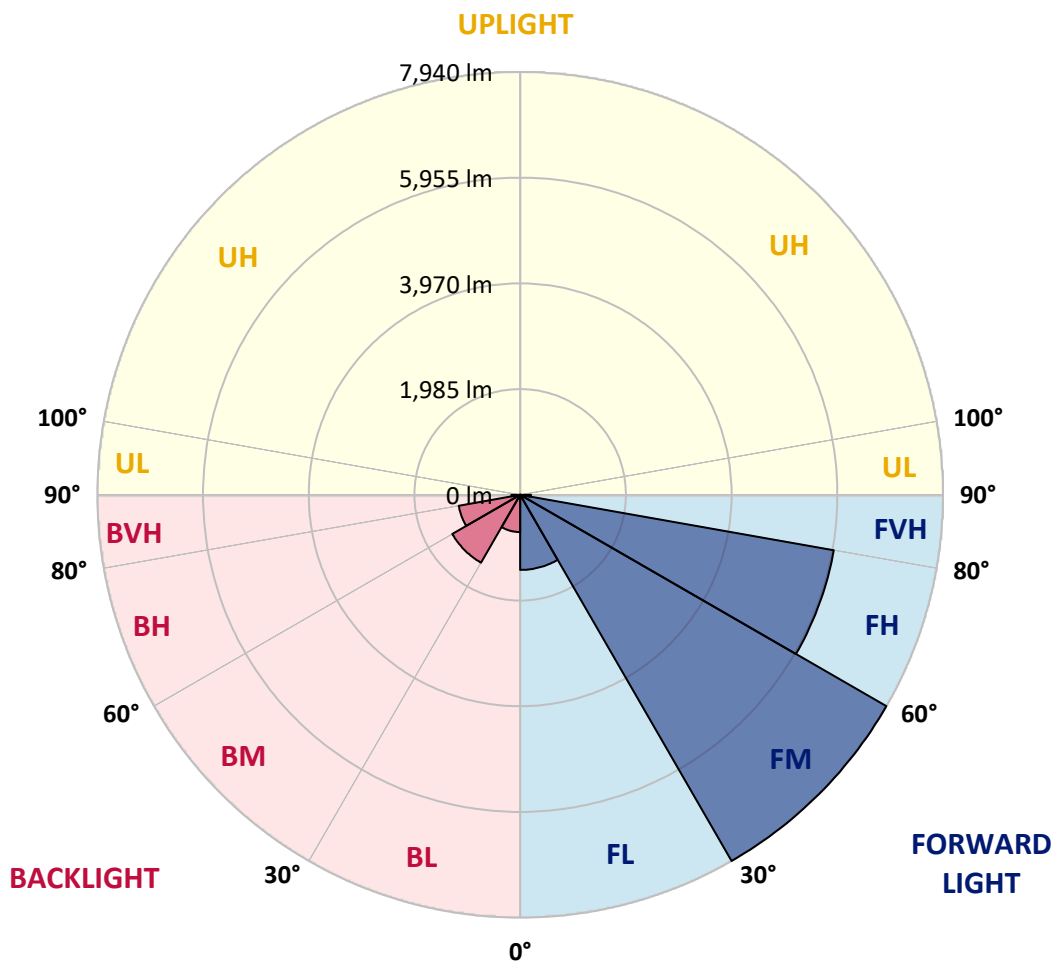
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1410.7 | 7.4 | | | |
| FM (30°-60°) | 7940.3 | 41.7 | | | |
| FH (60°-80°) | 5980.3 | 31.4 | | | G3/7500 |
| FVH (80°-90°) | 200.7 | 1.1 | | | G2/225 |
| BL (0°-30°) | 699.5 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 1471.0 | 7.7 | B2/2500 | | |
| BH (60°-80°) | 1171.2 | 6.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 164.3 | 0.9 | | | 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° | 75° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 2644.9 | 2644.9 | 2644.9 | 2644.9 | 2644.9 | 2644.9 | 2644.9 | 2644.9 | 2644.9 | 2644.9 | 2644.9 |
| 2.5° | 2893.3 | 2876.4 | 2879.2 | 2874.6 | 2860.5 | 2836.1 | 2809.9 | 2762.1 | 2712.4 | 2686.2 | 2665.6 |
| 5° | 3135.1 | 3130.4 | 3123.9 | 3108.9 | 3073.3 | 3022.6 | 2959.8 | 2875.5 | 2784.6 | 2736.8 | 2690.9 |
| 7.5° | 3316.0 | 3313.2 | 3304.8 | 3295.4 | 3260.7 | 3199.8 | 3105.1 | 2985.2 | 2853.0 | 2787.4 | 2716.2 |
| 10° | 3331.0 | 3335.7 | 3342.2 | 3367.6 | 3372.2 | 3339.4 | 3242.9 | 3097.6 | 2924.2 | 2839.9 | 2749.0 |
| 12.5° | 3203.5 | 3213.8 | 3239.2 | 3303.8 | 3372.2 | 3412.5 | 3362.9 | 3215.7 | 3007.6 | 2905.5 | 2790.2 |
| 15° | 3034.8 | 3040.5 | 3071.4 | 3160.4 | 3283.2 | 3407.9 | 3454.7 | 3346.0 | 3115.4 | 2989.8 | 2852.1 |
| 17.5° | 2962.7 | 2965.5 | 2987.0 | 3046.1 | 3160.4 | 3338.5 | 3506.3 | 3487.5 | 3247.6 | 3094.8 | 2928.0 |
| 20° | 2926.1 | 2932.7 | 2963.6 | 3021.7 | 3093.9 | 3249.5 | 3513.8 | 3640.3 | 3405.0 | 3226.0 | 3023.6 |
| 22.5° | 3030.1 | 3027.3 | 3038.6 | 3067.6 | 3128.6 | 3222.3 | 3508.1 | 3797.8 | 3605.6 | 3394.7 | 3148.2 |
| 25° | 3272.9 | 3283.2 | 3263.5 | 3230.7 | 3250.4 | 3316.0 | 3538.1 | 3968.3 | 3856.8 | 3611.2 | 3311.3 |
| 27.5° | 3618.7 | 3608.4 | 3579.4 | 3502.5 | 3462.2 | 3490.3 | 3637.5 | 4152.0 | 4168.9 | 3896.2 | 3526.9 |
| 30° | 3963.6 | 3955.2 | 3927.1 | 3833.4 | 3750.9 | 3727.5 | 3830.6 | 4362.9 | 4541.0 | 4238.3 | 3791.2 |
| 32.5° | 4321.7 | 4312.3 | 4286.1 | 4192.3 | 4093.0 | 4038.6 | 4105.2 | 4606.6 | 4979.6 | 4646.9 | 4102.4 |
| 35° | 4763.1 | 4745.3 | 4690.0 | 4559.7 | 4462.3 | 4420.1 | 4451.0 | 4913.1 | 5485.7 | 5130.5 | 4480.1 |
| 37.5° | 5178.3 | 5205.5 | 5149.3 | 4969.3 | 4842.8 | 4827.8 | 4862.5 | 5287.1 | 6031.2 | 5671.3 | 4914.0 |
| 40° | 5595.4 | 5600.1 | 5549.5 | 5402.3 | 5272.1 | 5247.7 | 5334.9 | 5740.7 | 6675.1 | 6318.0 | 5441.7 |
| 42.5° | 6026.5 | 6035.9 | 5950.6 | 5814.7 | 5719.1 | 5723.8 | 5823.2 | 6272.1 | 7413.7 | 7080.0 | 6049.0 |
| 45° | 6537.3 | 6551.4 | 6457.7 | 6279.6 | 6192.4 | 6367.7 | 6326.5 | 6868.2 | 8223.5 | 7946.0 | 6746.4 |
| 47.5° | 7071.6 | 7093.1 | 7021.9 | 6855.1 | 6746.4 | 6987.2 | 6829.8 | 7529.0 | 9095.1 | 8874.9 | 7512.1 |
| 50° | 7363.1 | 7394.0 | 7463.4 | 7451.2 | 7427.7 | 7387.4 | 7391.2 | 8237.5 | 9993.9 | 9842.1 | 8299.4 |
| 52.5° | 7206.5 | 7205.6 | 7458.7 | 7766.1 | 8094.1 | 8118.5 | 8075.4 | 8984.5 | 10833.7 | 10787.8 | 9040.8 |
| 55° | 6490.5 | 6539.2 | 6922.6 | 7517.7 | 8413.7 | 8973.3 | 9100.7 | 9840.2 | 11658.5 | 11711.9 | 9793.4 |
| 57.5° | 5298.3 | 5338.6 | 5856.0 | 6685.4 | 7982.6 | 9481.3 | 10559.1 | 11084.0 | 12580.8 | 12830.1 | 10795.3 |
| 60° | 3593.4 | 3642.2 | 4190.5 | 5186.8 | 6822.3 | 9198.2 | 11947.2 | 13303.4 | 13684.9 | 14251.9 | 12201.2 |
| 62.5° | 2111.6 | 2155.7 | 2602.8 | 3272.0 | 4803.4 | 7883.2 | 12556.4 | 16461.0 | 15438.5 | 16397.3 | 14345.6 |
| 65° | 1453.7 | 1483.7 | 1701.1 | 2036.7 | 2760.2 | 5309.5 | 11801.0 | 18641.1 | 18136.8 | 19055.3 | 16832.2 |
| 67.5° | 1169.7 | 1165.9 | 1338.4 | 1567.1 | 1777.0 | 2737.7 | 8923.6 | 18394.6 | 20509.9 | 20893.3 | 18122.8 |
| 70° | 963.5 | 959.7 | 1076.9 | 1266.2 | 1419.9 | 1541.8 | 4860.6 | 15522.8 | 20026.3 | 20181.9 | 16934.3 |
| 72.5° | 806.0 | 809.8 | 884.8 | 1025.4 | 1165.0 | 1161.3 | 2136.0 | 10920.0 | 15754.3 | 16830.3 | 13499.3 |
| 75° | 680.4 | 682.3 | 732.0 | 831.3 | 945.7 | 935.4 | 1158.4 | 5915.9 | 9157.9 | 9906.8 | 7483.0 |
| 77.5° | 579.2 | 581.1 | 613.0 | 668.3 | 749.8 | 746.1 | 845.4 | 2555.9 | 3820.2 | 3773.4 | 2559.6 |
| 80° | 516.4 | 516.4 | 531.4 | 541.7 | 586.7 | 569.9 | 627.0 | 1227.8 | 1614.9 | 1491.2 | 1021.6 |
| 82.5° | 404.9 | 406.8 | 498.6 | 494.9 | 462.1 | 440.5 | 440.5 | 723.6 | 855.7 | 791.0 | 598.0 |
| 85° | 227.8 | 226.8 | 321.5 | 388.0 | 406.8 | 310.2 | 307.4 | 404.9 | 465.8 | 410.5 | 289.6 |
| 87.5° | 97.5 | 99.3 | 149.0 | 172.5 | 230.6 | 193.1 | 190.3 | 209.0 | 237.1 | 205.3 | 134.0 |
| 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° | 2644.9 | 2644.9 | 2644.9 | 2644.9 | 2644.9 | 2644.9 | 2644.9 | 2644.9 | 2644.9 | 2644.9 | 2644.9 |
| 2.5° | 2645.9 | 2621.5 | 2568.1 | 2501.5 | 2441.5 | 2402.2 | 2366.6 | 2315.0 | 2317.8 | 2282.2 | 2256.0 |
| 5° | 2644.0 | 2593.4 | 2469.7 | 2322.5 | 2181.0 | 2078.8 | 2002.0 | 1932.6 | 1915.7 | 1882.9 | 1863.3 |
| 7.5° | 2645.9 | 2563.4 | 2355.3 | 2120.1 | 1944.8 | 1815.5 | 1749.9 | 1713.3 | 1704.9 | 1693.6 | 1694.6 |
| 10° | 2652.4 | 2536.2 | 2229.7 | 1930.7 | 1747.0 | 1661.8 | 1645.8 | 1657.1 | 1670.2 | 1673.9 | 1674.9 |
| 12.5° | 2667.4 | 2511.8 | 2092.0 | 1762.0 | 1623.3 | 1597.1 | 1624.3 | 1662.7 | 1688.0 | 1700.2 | 1699.2 |
| 15° | 2701.2 | 2493.1 | 1959.8 | 1629.9 | 1554.9 | 1569.0 | 1619.6 | 1673.9 | 1710.5 | 1727.4 | 1728.3 |
| 17.5° | 2737.7 | 2465.9 | 1823.9 | 1528.7 | 1504.3 | 1539.9 | 1602.7 | 1666.4 | 1711.4 | 1730.2 | 1733.9 |
| 20° | 2785.5 | 2432.2 | 1681.4 | 1452.7 | 1456.5 | 1496.8 | 1555.8 | 1619.6 | 1669.3 | 1685.2 | 1692.7 |
| 22.5° | 2848.3 | 2395.6 | 1556.8 | 1390.9 | 1402.1 | 1433.1 | 1479.0 | 1534.3 | 1577.4 | 1584.9 | 1591.5 |
| 25° | 2932.7 | 2356.3 | 1457.4 | 1334.7 | 1339.3 | 1357.1 | 1388.1 | 1420.9 | 1450.9 | 1442.4 | 1449.0 |
| 27.5° | 3046.1 | 2322.5 | 1383.4 | 1283.1 | 1274.7 | 1278.4 | 1294.3 | 1304.7 | 1320.6 | 1297.2 | 1300.0 |
| 30° | 3179.2 | 2286.0 | 1326.2 | 1238.1 | 1214.7 | 1208.1 | 1211.9 | 1217.5 | 1229.7 | 1197.8 | 1193.1 |
| 32.5° | 3333.8 | 2241.9 | 1272.8 | 1198.7 | 1165.9 | 1152.8 | 1154.7 | 1169.7 | 1216.6 | 1196.9 | 1186.6 |
| 35° | 3513.8 | 2192.2 | 1216.6 | 1155.6 | 1133.1 | 1114.4 | 1112.5 | 1159.4 | 1299.0 | 1286.9 | 1277.5 |
| 37.5° | 3724.6 | 2142.6 | 1160.3 | 1106.9 | 1108.8 | 1088.2 | 1081.6 | 1135.0 | 1315.0 | 1267.2 | 1260.6 |
| 40° | 3992.7 | 2116.3 | 1112.5 | 1055.3 | 1078.8 | 1076.0 | 1062.8 | 1090.0 | 1210.0 | 1122.8 | 1111.6 |
| 42.5° | 4324.5 | 2120.1 | 1076.9 | 1000.1 | 1043.2 | 1073.2 | 1052.5 | 1053.5 | 1096.6 | 1031.0 | 1020.7 |
| 45° | 4734.1 | 2164.1 | 1051.6 | 956.0 | 1002.9 | 1070.3 | 1048.8 | 1033.8 | 1037.5 | 1002.9 | 997.2 |
| 47.5° | 5212.1 | 2255.0 | 1033.8 | 919.4 | 964.4 | 1060.0 | 1047.9 | 1028.2 | 1019.7 | 1001.0 | 996.3 |
| 50° | 5743.5 | 2387.2 | 1020.7 | 884.8 | 929.8 | 1043.2 | 1048.8 | 1022.5 | 1013.2 | 1005.7 | 1002.9 |
| 52.5° | 6265.5 | 2538.1 | 1001.0 | 854.8 | 902.6 | 1022.5 | 1051.6 | 1016.9 | 1006.6 | 1001.0 | 998.2 |
| 55° | 6847.6 | 2726.5 | 971.0 | 829.5 | 880.1 | 996.3 | 1051.6 | 1008.5 | 997.2 | 998.2 | 997.2 |
| 57.5° | 7633.9 | 3031.1 | 935.4 | 807.9 | 852.9 | 964.4 | 1033.8 | 999.1 | 985.1 | 986.0 | 986.9 |
| 60° | 8862.7 | 3568.1 | 892.3 | 786.4 | 819.2 | 926.9 | 1009.4 | 978.5 | 964.4 | 968.2 | 969.1 |
| 62.5° | 10669.7 | 4356.4 | 836.0 | 754.5 | 783.5 | 886.6 | 975.7 | 952.3 | 938.2 | 947.6 | 947.6 |
| 65° | 12548.0 | 5051.8 | 766.7 | 714.2 | 746.1 | 842.6 | 933.5 | 919.4 | 905.4 | 926.9 | 926.0 |
| 67.5° | 13053.1 | 4896.2 | 697.3 | 670.1 | 708.6 | 793.9 | 882.9 | 875.4 | 867.9 | 905.4 | 903.5 |
| 70° | 11595.7 | 3930.8 | 633.6 | 625.1 | 667.3 | 741.4 | 828.5 | 828.5 | 823.8 | 852.0 | 845.4 |
| 72.5° | 8834.6 | 2787.4 | 572.7 | 577.3 | 620.5 | 684.2 | 769.5 | 776.0 | 768.5 | 782.6 | 777.0 |
| 75° | 4729.4 | 1595.2 | 511.7 | 524.9 | 562.4 | 626.1 | 703.9 | 710.4 | 705.8 | 704.8 | 707.6 |
| 77.5° | 1571.8 | 779.8 | 448.0 | 468.6 | 501.4 | 566.1 | 635.5 | 645.8 | 634.5 | 632.6 | 631.7 |
| 80° | 700.1 | 490.2 | 377.7 | 404.9 | 433.9 | 497.7 | 563.3 | 571.7 | 559.5 | 576.4 | 554.9 |
| 82.5° | 449.9 | 322.4 | 302.7 | 332.7 | 360.8 | 429.3 | 491.1 | 493.0 | 481.7 | 559.5 | 477.1 |
| 85° | 218.4 | 199.6 | 227.8 | 254.9 | 279.3 | 337.4 | 406.8 | 407.7 | 379.6 | 345.8 | 333.7 |
| 87.5° | 108.7 | 116.2 | 151.8 | 176.2 | 188.4 | 231.5 | 296.2 | 290.5 | 278.4 | 253.1 | 233.4 |
| 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)