

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: P193101

Luminaire Tested: **GAN-AF-03-LED-U-T2-7030-800**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P193101  
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-T2-7030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 13934.9 lumens  
Efficiency: N/A  
Efficacy: 112.4 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



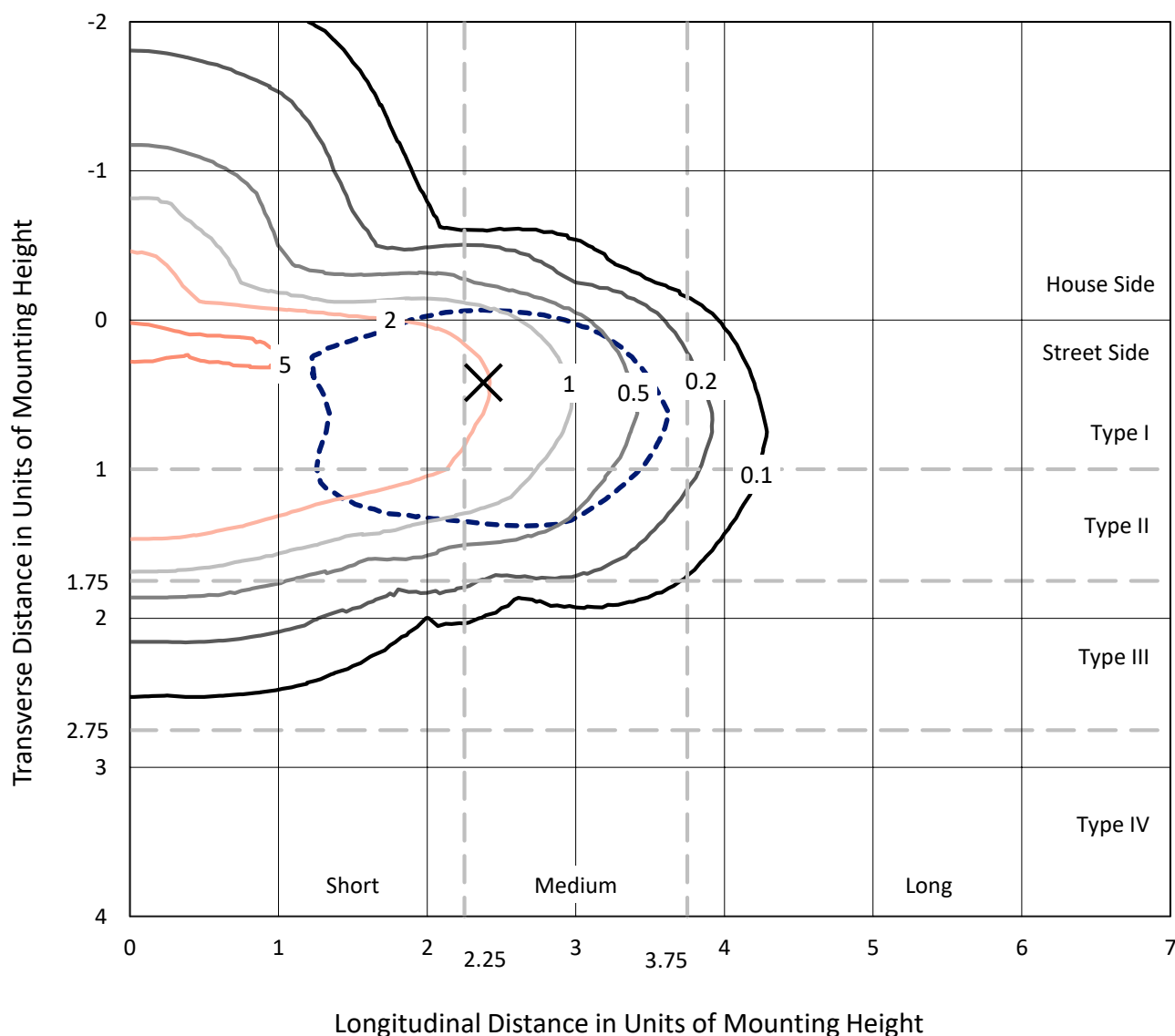
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

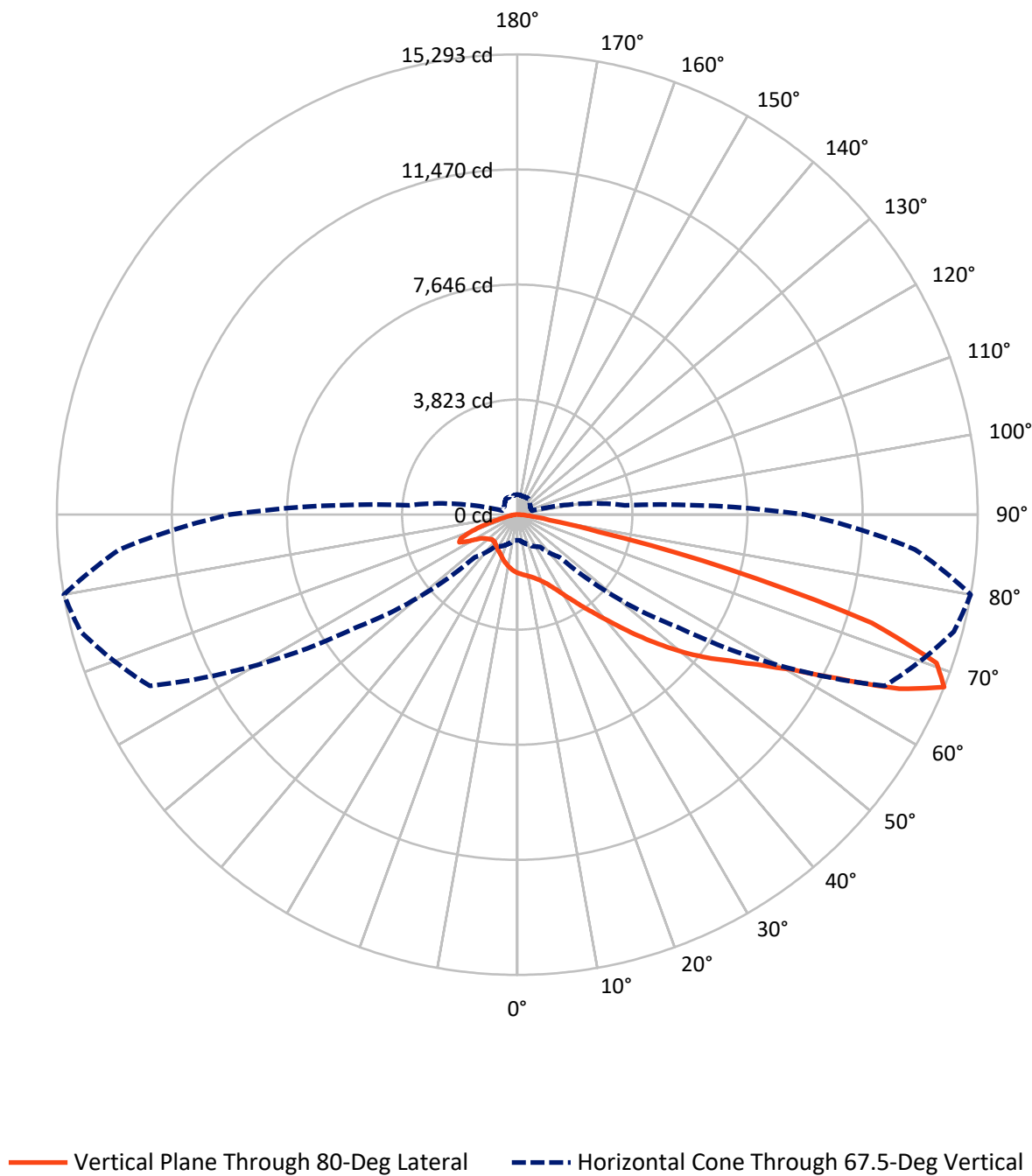


Based on 20 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2566.3   | 0.0    | 2566.3  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 11368.6  | 0.0    | 11368.6 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 13934.9  | 0.0    | 13934.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 178.6   | 1.3       |
| 10°-20°   | 514.4   | 3.7       |
| 20°-30°   | 851.5   | 6.1       |
| 30°-40°   | 1392.9  | 10.0      |
| 40°-50°   | 2248.9  | 16.1      |
| 50°-60°   | 3246.8  | 23.3      |
| 60°-70°   | 3583.1  | 25.7      |
| 70°-80°   | 1651.6  | 11.9      |
| 80°-90°   | 267.1   | 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°    | 13934.9 | 100.0     |
| 0°-180°   | 13934.9 | 100.0     |

**Coefficient of Utilization**



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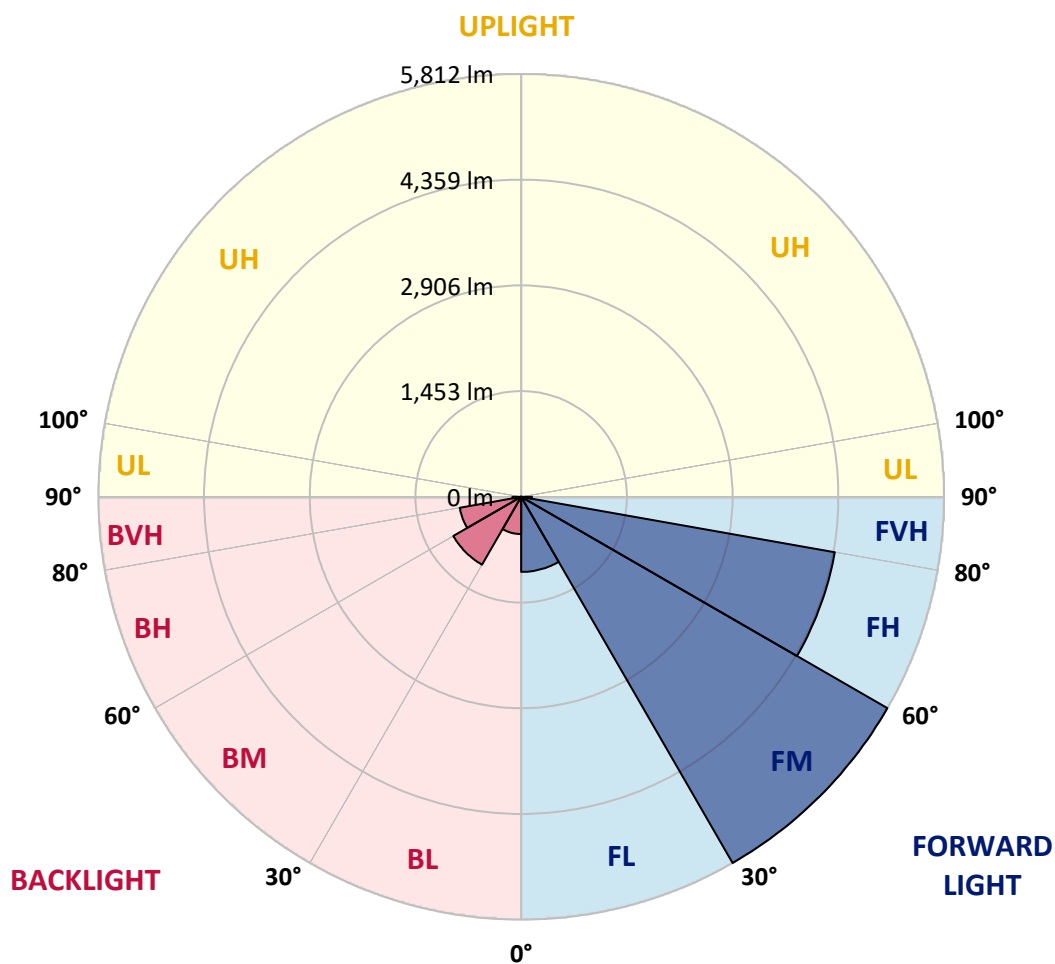
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1032.5 | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 5811.9 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 4377.3 | 31.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 146.9  | 1.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 512.0  | 3.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1076.7 | 7.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 857.3  | 6.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 120.3  | 0.9       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: 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°    | 1936.0 | 1936.0 | 1936.0 | 1936.0 | 1936.0 | 1936.0 | 1936.0 | 1936.0  | 1936.0  | 1936.0  | 1936.0  |
| 2.5°  | 2117.8 | 2105.4 | 2107.5 | 2104.0 | 2093.7 | 2075.9 | 2056.7 | 2021.8  | 1985.4  | 1966.1  | 1951.1  |
| 5°    | 2294.8 | 2291.2 | 2286.6 | 2275.6 | 2249.4 | 2212.4 | 2166.5 | 2104.8  | 2038.2  | 2003.2  | 1969.6  |
| 7.5°  | 2427.2 | 2425.1 | 2418.9 | 2412.1 | 2386.7 | 2342.1 | 2272.8 | 2184.9  | 2088.3  | 2040.2  | 1988.1  |
| 10°   | 2438.1 | 2441.6 | 2446.5 | 2464.9 | 2468.2 | 2444.3 | 2373.6 | 2267.3  | 2140.4  | 2078.6  | 2012.1  |
| 12.5° | 2344.8 | 2352.4 | 2370.9 | 2418.2 | 2468.2 | 2497.7 | 2461.5 | 2353.8  | 2201.5  | 2126.7  | 2042.3  |
| 15°   | 2221.3 | 2225.5 | 2248.1 | 2313.2 | 2403.1 | 2494.4 | 2528.7 | 2449.1  | 2280.3  | 2188.5  | 2087.6  |
| 17.5° | 2168.6 | 2170.6 | 2186.4 | 2229.6 | 2313.2 | 2443.6 | 2566.4 | 2552.8  | 2377.1  | 2265.3  | 2143.1  |
| 20°   | 2141.8 | 2146.6 | 2169.3 | 2211.7 | 2264.6 | 2378.5 | 2572.0 | 2664.5  | 2492.3  | 2361.3  | 2213.1  |
| 22.5° | 2218.0 | 2215.9 | 2224.1 | 2245.4 | 2290.0 | 2358.6 | 2567.8 | 2779.8  | 2639.1  | 2484.8  | 2304.4  |
| 25°   | 2395.6 | 2403.1 | 2388.7 | 2364.7 | 2379.1 | 2427.2 | 2589.8 | 2904.6  | 2823.0  | 2643.3  | 2423.7  |
| 27.5° | 2648.8 | 2641.3 | 2619.9 | 2563.7 | 2534.2 | 2554.8 | 2662.4 | 3039.0  | 3051.4  | 2851.7  | 2581.5  |
| 30°   | 2901.2 | 2895.1 | 2874.5 | 2805.9 | 2745.4 | 2728.3 | 2803.8 | 3193.4  | 3323.7  | 3102.2  | 2774.9  |
| 32.5° | 3163.3 | 3156.4 | 3137.2 | 3068.5 | 2995.9 | 2956.1 | 3004.8 | 3371.8  | 3644.9  | 3401.3  | 3002.8  |
| 35°   | 3486.4 | 3473.4 | 3432.9 | 3337.6 | 3266.2 | 3235.2 | 3257.9 | 3596.2  | 4015.3  | 3755.3  | 3279.2  |
| 37.5° | 3790.3 | 3810.2 | 3769.0 | 3637.3 | 3544.7 | 3533.8 | 3559.1 | 3869.9  | 4414.6  | 4151.2  | 3596.9  |
| 40°   | 4095.6 | 4099.0 | 4061.9 | 3954.2 | 3858.9 | 3841.0 | 3904.8 | 4201.9  | 4885.8  | 4624.5  | 3983.0  |
| 42.5° | 4411.2 | 4418.0 | 4355.6 | 4256.0 | 4186.2 | 4189.5 | 4262.3 | 4590.8  | 5426.5  | 5182.2  | 4427.6  |
| 45°   | 4785.0 | 4795.3 | 4726.8 | 4596.4 | 4532.6 | 4660.9 | 4630.6 | 5027.2  | 6019.2  | 5816.1  | 4938.0  |
| 47.5° | 5176.0 | 5191.9 | 5139.7 | 5017.6 | 4938.0 | 5114.3 | 4999.0 | 5510.8  | 6657.1  | 6496.0  | 5498.5  |
| 50°   | 5389.4 | 5412.0 | 5462.9 | 5453.9 | 5436.7 | 5407.2 | 5410.0 | 6029.5  | 7315.1  | 7204.0  | 6074.9  |
| 52.5° | 5274.8 | 5274.2 | 5459.3 | 5684.4 | 5924.5 | 5942.4 | 5910.8 | 6576.2  | 7929.8  | 7896.1  | 6617.4  |
| 55°   | 4750.7 | 4786.4 | 5067.0 | 5502.7 | 6158.5 | 6568.0 | 6661.3 | 7202.6  | 8533.4  | 8572.6  | 7168.3  |
| 57.5° | 3878.1 | 3907.6 | 4286.2 | 4893.4 | 5842.8 | 6939.8 | 7728.8 | 8112.9  | 9208.5  | 9391.1  | 7901.6  |
| 60°   | 2630.2 | 2665.9 | 3067.2 | 3796.4 | 4993.5 | 6732.7 | 8744.8 | 9737.5  | 10016.7 | 10431.7 | 8930.8  |
| 62.5° | 1545.6 | 1577.8 | 1905.1 | 2395.0 | 3515.9 | 5770.2 | 9190.7 | 12048.7 | 11300.2 | 12002.0 | 10500.4 |
| 65°   | 1064.0 | 1085.9 | 1245.1 | 1490.8 | 2020.3 | 3886.4 | 8637.7 | 13644.4 | 13275.3 | 13947.6 | 12320.4 |
| 67.5° | 856.1  | 853.5  | 979.6  | 1147.0 | 1300.7 | 2004.0 | 6531.6 | 13463.9 | 15012.3 | 15292.9 | 13265.0 |
| 70°   | 705.3  | 702.5  | 788.2  | 926.8  | 1039.4 | 1128.5 | 3557.7 | 11362.0 | 14658.3 | 14772.2 | 12395.1 |
| 72.5° | 590.0  | 592.7  | 647.6  | 750.5  | 852.8  | 850.0  | 1563.5 | 7992.9  | 11531.4 | 12319.0 | 9880.9  |
| 75°   | 498.0  | 499.5  | 535.8  | 608.5  | 692.1  | 684.6  | 848.0  | 4330.2  | 6703.2  | 7251.3  | 5477.2  |
| 77.5° | 423.9  | 425.3  | 448.6  | 489.2  | 548.8  | 546.1  | 618.9  | 1870.8  | 2796.3  | 2762.0  | 1873.6  |
| 80°   | 378.0  | 378.0  | 389.0  | 396.5  | 429.5  | 417.2  | 459.0  | 898.6   | 1182.0  | 1091.5  | 747.8   |
| 82.5° | 296.3  | 297.7  | 364.9  | 362.2  | 338.1  | 322.5  | 322.5  | 529.6   | 626.4   | 579.0   | 437.7   |
| 85°   | 166.7  | 166.0  | 235.4  | 284.0  | 297.7  | 227.0  | 225.0  | 296.3   | 341.0   | 300.5   | 212.0   |
| 87.5° | 71.3   | 72.7   | 109.0  | 126.2  | 168.8  | 141.3  | 139.3  | 153.0   | 173.6   | 150.2   | 98.2    |
| 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°    | 1936.0 | 1936.0 | 1936.0 | 1936.0 | 1936.0 | 1936.0 | 1936.0 | 1936.0 | 1936.0 | 1936.0 | 1936.0 |
| 2.5°  | 1936.6 | 1918.8 | 1879.7 | 1830.9 | 1787.1 | 1758.3 | 1732.2 | 1694.5 | 1696.6 | 1670.5 | 1651.2 |
| 5°    | 1935.3 | 1898.3 | 1807.7 | 1700.0 | 1596.4 | 1521.7 | 1465.3 | 1414.6 | 1402.3 | 1378.2 | 1363.8 |
| 7.5°  | 1936.6 | 1876.3 | 1724.0 | 1551.8 | 1423.5 | 1328.8 | 1280.8 | 1254.1 | 1247.8 | 1239.6 | 1240.3 |
| 10°   | 1941.4 | 1856.5 | 1632.0 | 1413.3 | 1278.8 | 1216.3 | 1204.7 | 1212.9 | 1222.5 | 1225.3 | 1225.9 |
| 12.5° | 1952.5 | 1838.5 | 1531.2 | 1289.7 | 1188.2 | 1169.0 | 1188.8 | 1217.0 | 1235.5 | 1244.5 | 1243.8 |
| 15°   | 1977.1 | 1824.8 | 1434.5 | 1193.0 | 1138.2 | 1148.5 | 1185.5 | 1225.3 | 1252.0 | 1264.3 | 1265.0 |
| 17.5° | 2004.0 | 1805.0 | 1335.0 | 1119.0 | 1101.2 | 1127.1 | 1173.1 | 1219.8 | 1252.6 | 1266.5 | 1269.1 |
| 20°   | 2038.9 | 1780.3 | 1230.7 | 1063.3 | 1066.1 | 1095.6 | 1138.8 | 1185.5 | 1221.8 | 1233.4 | 1239.0 |
| 22.5° | 2084.8 | 1753.5 | 1139.5 | 1018.1 | 1026.3 | 1048.9 | 1082.5 | 1123.0 | 1154.6 | 1160.2 | 1164.9 |
| 25°   | 2146.6 | 1724.6 | 1066.8 | 976.9  | 980.4  | 993.3  | 1016.0 | 1040.0 | 1062.0 | 1055.8 | 1060.6 |
| 27.5° | 2229.6 | 1700.0 | 1012.7 | 939.2  | 933.0  | 935.7  | 947.4  | 954.9  | 966.6  | 949.5  | 951.5  |
| 30°   | 2327.0 | 1673.2 | 970.8  | 906.2  | 889.1  | 884.2  | 887.0  | 891.1  | 900.1  | 876.7  | 873.3  |
| 32.5° | 2440.2 | 1641.0 | 931.7  | 877.5  | 853.5  | 843.8  | 845.2  | 856.1  | 890.5  | 876.0  | 868.5  |
| 35°   | 2572.0 | 1604.6 | 890.5  | 845.8  | 829.4  | 815.7  | 814.3  | 848.6  | 950.9  | 942.0  | 935.0  |
| 37.5° | 2726.2 | 1568.3 | 849.3  | 810.1  | 811.6  | 796.5  | 791.7  | 830.8  | 962.5  | 927.5  | 922.7  |
| 40°   | 2922.4 | 1549.1 | 814.3  | 772.5  | 789.6  | 787.5  | 777.9  | 797.8  | 885.6  | 821.8  | 813.7  |
| 42.5° | 3165.3 | 1551.8 | 788.2  | 732.0  | 763.5  | 785.5  | 770.4  | 771.1  | 802.6  | 754.7  | 747.2  |
| 45°   | 3465.1 | 1584.0 | 769.7  | 699.7  | 734.0  | 783.4  | 767.6  | 756.7  | 759.5  | 734.0  | 730.0  |
| 47.5° | 3815.0 | 1650.6 | 756.7  | 673.0  | 706.0  | 775.8  | 767.0  | 752.6  | 746.4  | 732.7  | 729.2  |
| 50°   | 4204.0 | 1747.3 | 747.2  | 647.6  | 680.5  | 763.5  | 767.6  | 748.4  | 741.6  | 736.1  | 734.0  |
| 52.5° | 4586.0 | 1857.7 | 732.7  | 625.6  | 660.7  | 748.4  | 769.7  | 744.4  | 736.9  | 732.7  | 730.6  |
| 55°   | 5012.2 | 1995.6 | 710.7  | 607.2  | 644.2  | 729.2  | 769.7  | 738.1  | 730.0  | 730.6  | 730.0  |
| 57.5° | 5587.7 | 2218.6 | 684.6  | 591.3  | 624.3  | 706.0  | 756.7  | 731.3  | 721.0  | 721.6  | 722.4  |
| 60°   | 6487.0 | 2611.8 | 653.1  | 575.6  | 599.7  | 678.5  | 738.8  | 716.2  | 706.0  | 708.6  | 709.3  |
| 62.5° | 7809.8 | 3188.6 | 612.0  | 552.3  | 573.5  | 649.0  | 714.1  | 697.0  | 686.7  | 693.6  | 693.6  |
| 65°   | 9184.6 | 3697.7 | 561.1  | 522.8  | 546.1  | 616.8  | 683.3  | 673.0  | 662.6  | 678.5  | 677.9  |
| 67.5° | 9554.2 | 3583.8 | 510.4  | 490.5  | 518.7  | 581.0  | 646.3  | 640.7  | 635.3  | 662.6  | 661.3  |
| 70°   | 8487.5 | 2877.3 | 463.8  | 457.6  | 488.5  | 542.7  | 606.5  | 606.5  | 603.0  | 623.7  | 618.9  |
| 72.5° | 6466.5 | 2040.2 | 419.1  | 422.7  | 454.2  | 500.9  | 563.2  | 568.0  | 562.5  | 572.8  | 568.7  |
| 75°   | 3461.7 | 1167.7 | 374.5  | 384.1  | 411.6  | 458.3  | 515.1  | 520.0  | 516.6  | 515.9  | 518.0  |
| 77.5° | 1150.5 | 570.8  | 327.9  | 343.0  | 367.0  | 414.3  | 465.1  | 472.6  | 464.5  | 463.0  | 462.3  |
| 80°   | 512.4  | 358.8  | 276.4  | 296.3  | 317.6  | 364.3  | 412.4  | 418.5  | 409.5  | 422.0  | 406.1  |
| 82.5° | 329.3  | 236.0  | 221.6  | 243.5  | 264.1  | 314.2  | 359.5  | 360.9  | 352.6  | 409.5  | 349.2  |
| 85°   | 159.8  | 146.1  | 166.7  | 186.7  | 204.5  | 246.9  | 297.7  | 298.4  | 277.8  | 253.2  | 244.2  |
| 87.5° | 79.5   | 85.1   | 111.1  | 128.9  | 137.8  | 169.5  | 216.8  | 212.6  | 203.8  | 185.2  | 170.8  |
| 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)