

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: P192152

Luminaire Tested: **GAN-AF-04-LED-U-T2-7050-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192152  
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-T2-7050-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15525 lumens  
Efficiency: N/A  
Efficacy: 120.3 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): 129  
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

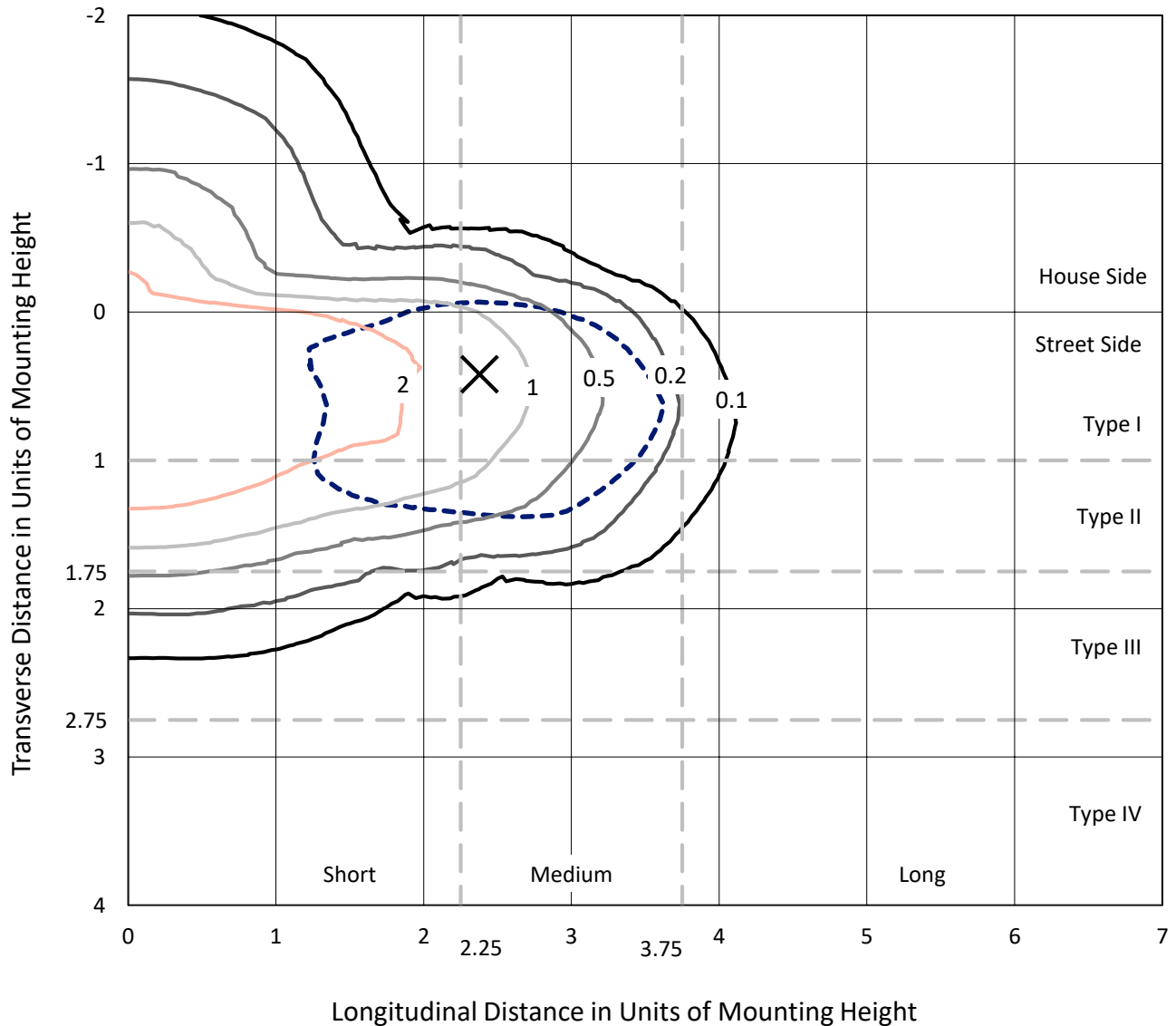


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

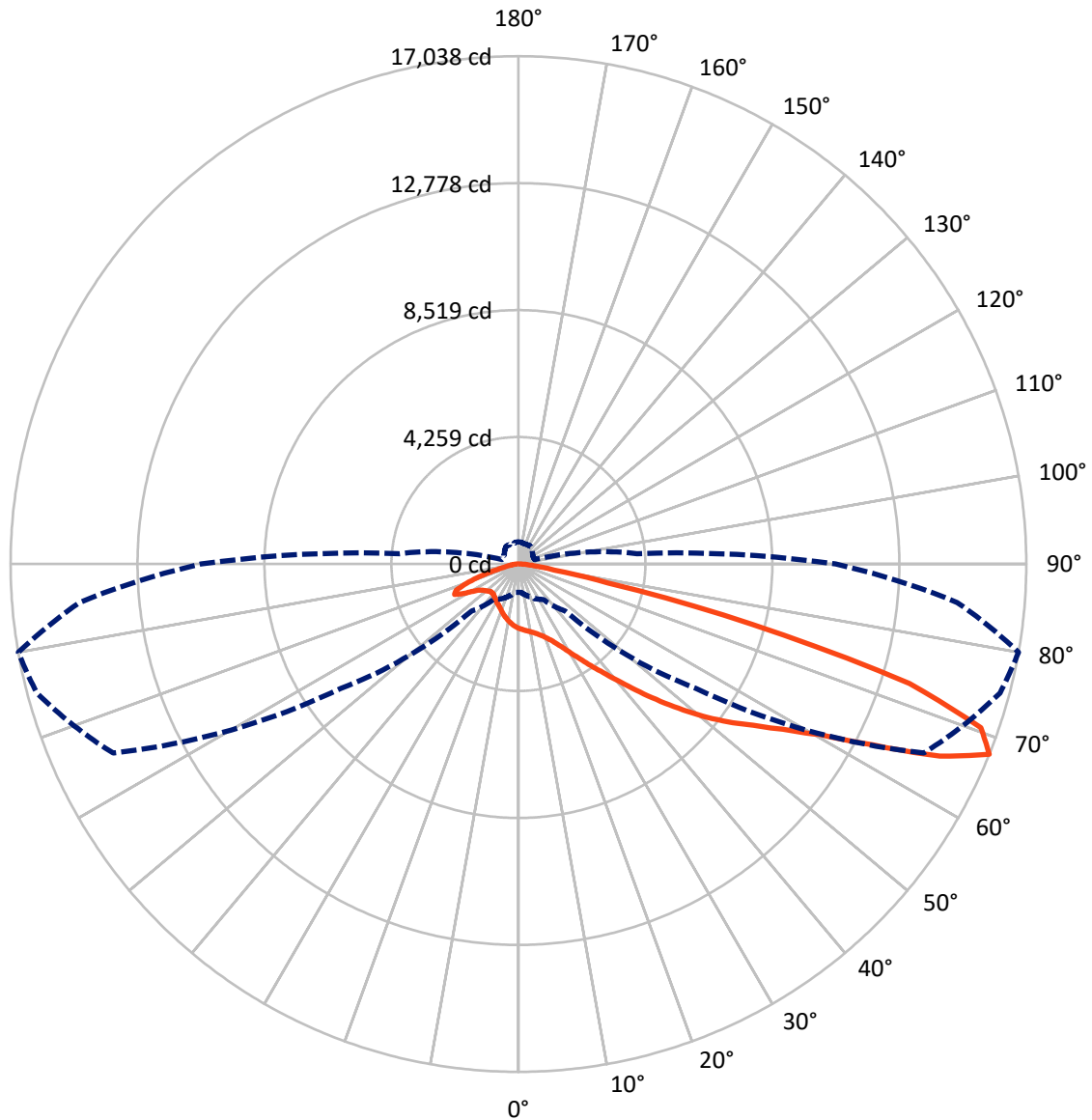


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Medium - Full Cutoff

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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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2859.1   | 0.0    | 2859.1  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 12665.9  | 0.0    | 12665.9 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 15525.0  | 0.0    | 15525.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 199.0   | 1.3       |
| 10°-20°   | 573.1   | 3.7       |
| 20°-30°   | 948.7   | 6.1       |
| 30°-40°   | 1551.8  | 10.0      |
| 40°-50°   | 2505.6  | 16.1      |
| 50°-60°   | 3617.3  | 23.3      |
| 60°-70°   | 3991.9  | 25.7      |
| 70°-80°   | 1840.0  | 11.9      |
| 80°-90°   | 297.6   | 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°    | 15525.0 | 100.0     |
| 0°-180°   | 15525.0 | 100.0     |



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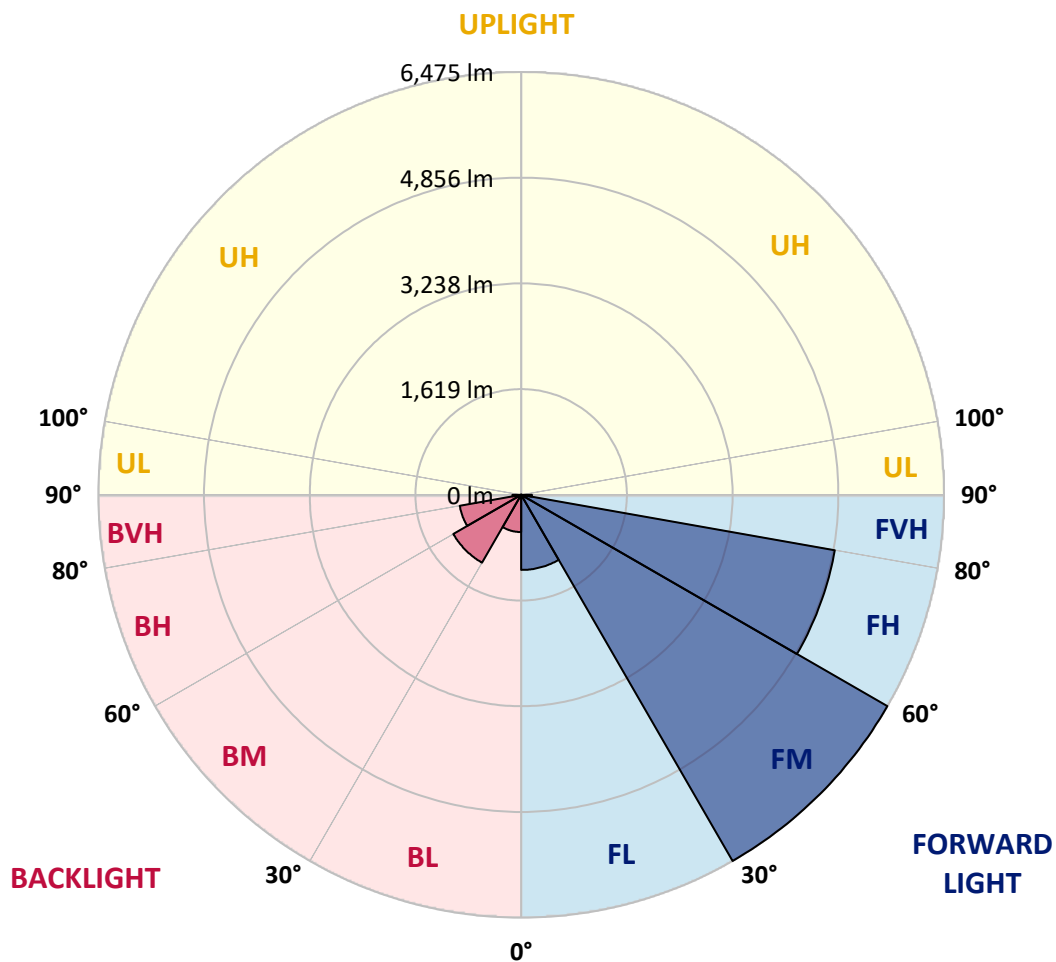
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1150.4 | 7.4       |                         |      |         |
| FM (30°-60°)   | 6475.1 | 41.7      |                         |      |         |
| FH (60°-80°)   | 4876.8 | 31.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 163.6  | 1.1       |                         |      | G2/225  |
| BL (0°-30°)    | 570.4  | 3.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 1199.6 | 7.7       | B2/2500                 |      |         |
| BH (60°-80°)   | 955.1  | 6.2       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 134.0  | 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°    | 2156.9 | 2156.9 | 2156.9 | 2156.9 | 2156.9 | 2156.9 | 2156.9  | 2156.9  | 2156.9  | 2156.9  | 2156.9  |
| 2.5°  | 2359.4 | 2345.7 | 2348.0 | 2344.1 | 2332.7 | 2312.8 | 2291.4  | 2252.4  | 2211.9  | 2190.5  | 2173.7  |
| 5°    | 2556.6 | 2552.8 | 2547.4 | 2535.2 | 2506.2 | 2464.9 | 2413.7  | 2344.9  | 2270.8  | 2231.8  | 2194.3  |
| 7.5°  | 2704.1 | 2701.8 | 2694.9 | 2687.3 | 2659.0 | 2609.3 | 2532.1  | 2434.3  | 2326.6  | 2273.0  | 2215.0  |
| 10°   | 2716.3 | 2720.2 | 2725.5 | 2746.2 | 2750.0 | 2723.2 | 2644.5  | 2526.0  | 2384.6  | 2315.8  | 2241.7  |
| 12.5° | 2612.4 | 2620.8 | 2641.4 | 2694.2 | 2750.0 | 2782.8 | 2742.3  | 2622.3  | 2452.7  | 2369.4  | 2275.3  |
| 15°   | 2474.8 | 2479.4 | 2504.6 | 2577.2 | 2677.4 | 2779.0 | 2817.2  | 2728.6  | 2540.6  | 2438.1  | 2325.8  |
| 17.5° | 2416.0 | 2418.3 | 2435.8 | 2484.0 | 2577.2 | 2722.5 | 2859.3  | 2844.0  | 2648.3  | 2523.7  | 2387.7  |
| 20°   | 2386.2 | 2391.5 | 2416.7 | 2464.1 | 2523.0 | 2649.9 | 2865.4  | 2968.6  | 2776.7  | 2630.7  | 2465.7  |
| 22.5° | 2471.0 | 2468.7 | 2477.9 | 2501.6 | 2551.3 | 2627.7 | 2860.8  | 3097.0  | 2940.3  | 2768.3  | 2567.3  |
| 25°   | 2669.0 | 2677.4 | 2661.3 | 2634.6 | 2650.6 | 2704.1 | 2885.3  | 3236.1  | 3145.1  | 2944.9  | 2700.3  |
| 27.5° | 2951.0 | 2942.6 | 2918.9 | 2856.2 | 2823.3 | 2846.3 | 2966.3  | 3385.9  | 3399.6  | 3177.2  | 2876.1  |
| 30°   | 3232.3 | 3225.4 | 3202.4 | 3126.0 | 3058.8 | 3039.6 | 3123.7  | 3557.8  | 3703.1  | 3456.2  | 3091.6  |
| 32.5° | 3524.2 | 3516.6 | 3495.2 | 3418.7 | 3337.7 | 3293.4 | 3347.7  | 3756.6  | 4060.8  | 3789.4  | 3345.4  |
| 35°   | 3884.2 | 3869.7 | 3824.6 | 3718.4 | 3638.9 | 3604.5 | 3629.7  | 4006.5  | 4473.5  | 4183.8  | 3653.4  |
| 37.5° | 4222.8 | 4245.0 | 4199.1 | 4052.4 | 3949.2 | 3936.9 | 3965.2  | 4311.5  | 4918.3  | 4624.8  | 4007.3  |
| 40°   | 4562.9 | 4566.7 | 4525.5 | 4405.5 | 4299.2 | 4279.4 | 4350.4  | 4681.4  | 5443.4  | 5152.2  | 4437.6  |
| 42.5° | 4914.5 | 4922.1 | 4852.6 | 4741.8 | 4663.8 | 4667.6 | 4748.6  | 5114.7  | 6045.7  | 5773.6  | 4932.8  |
| 45°   | 5331.0 | 5342.5 | 5266.1 | 5120.9 | 5049.8 | 5192.7 | 5159.1  | 5600.8  | 6706.0  | 6479.8  | 5501.5  |
| 47.5° | 5766.7 | 5784.3 | 5726.2 | 5590.1 | 5501.5 | 5697.9 | 5569.5  | 6139.7  | 7416.8  | 7237.2  | 6125.9  |
| 50°   | 6004.4 | 6029.6 | 6086.2 | 6076.2 | 6057.1 | 6024.3 | 6027.3  | 6717.5  | 8149.8  | 8026.0  | 6767.9  |
| 52.5° | 5876.8 | 5876.0 | 6082.4 | 6333.0 | 6600.6 | 6620.4 | 6585.3  | 7326.6  | 8834.6  | 8797.2  | 7372.5  |
| 55°   | 5292.8 | 5332.6 | 5645.2 | 6130.5 | 6861.2 | 7317.5 | 7421.4  | 8024.5  | 9507.2  | 9550.8  | 7986.2  |
| 57.5° | 4320.6 | 4353.5 | 4775.4 | 5451.8 | 6509.6 | 7731.7 | 8610.7  | 9038.7  | 10259.3 | 10462.6 | 8803.3  |
| 60°   | 2930.4 | 2970.1 | 3417.2 | 4229.7 | 5563.4 | 7500.9 | 9742.6  | 10848.6 | 11159.6 | 11622.1 | 9949.7  |
| 62.5° | 1722.0 | 1757.9 | 2122.5 | 2668.2 | 3917.1 | 6428.6 | 10239.4 | 13423.5 | 12589.7 | 13371.5 | 11698.5 |
| 65°   | 1185.4 | 1209.9 | 1387.2 | 1660.8 | 2250.9 | 4329.8 | 9623.4  | 15201.3 | 14790.1 | 15539.1 | 13726.2 |
| 67.5° | 953.9  | 950.8  | 1091.4 | 1277.9 | 1449.1 | 2232.5 | 7277.0  | 15000.3 | 16725.3 | 17037.9 | 14778.6 |
| 70°   | 785.7  | 782.7  | 878.2  | 1032.6 | 1157.9 | 1257.3 | 3963.7  | 12658.5 | 16330.9 | 16457.8 | 13809.5 |
| 72.5° | 657.3  | 660.4  | 721.5  | 836.2  | 950.0  | 947.0  | 1741.9  | 8904.9  | 12847.2 | 13724.7 | 11008.3 |
| 75°   | 554.9  | 556.4  | 596.9  | 677.9  | 771.2  | 762.8  | 944.7   | 4824.3  | 7468.0  | 8078.7  | 6102.2  |
| 77.5° | 472.3  | 473.9  | 499.9  | 545.0  | 611.4  | 608.4  | 689.4   | 2084.3  | 3115.3  | 3077.1  | 2087.3  |
| 80°   | 421.1  | 421.1  | 433.4  | 441.8  | 478.5  | 464.7  | 511.3   | 1001.2  | 1316.9  | 1216.0  | 833.1   |
| 82.5° | 330.2  | 331.7  | 406.6  | 403.6  | 376.8  | 359.2  | 359.2   | 590.0   | 697.8   | 645.1   | 487.6   |
| 85°   | 185.7  | 185.0  | 262.2  | 316.4  | 331.7  | 253.0  | 250.7   | 330.2   | 379.9   | 334.8   | 236.2   |
| 87.5° | 79.5   | 81.0   | 121.5  | 140.6  | 188.0  | 157.4  | 155.2   | 170.4   | 193.4   | 167.4   | 109.3   |
| 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°    | 2156.9  | 2156.9 | 2156.9 | 2156.9 | 2156.9 | 2156.9 | 2156.9 | 2156.9 | 2156.9 | 2156.9 | 2156.9 |
| 2.5°  | 2157.6  | 2137.8 | 2094.2 | 2039.9 | 1991.0 | 1958.9 | 1929.9 | 1887.8 | 1890.1 | 1861.1 | 1839.7 |
| 5°    | 2156.1  | 2114.8 | 2013.9 | 1894.0 | 1778.5 | 1695.2 | 1632.6 | 1576.0 | 1562.2 | 1535.5 | 1519.4 |
| 7.5°  | 2157.6  | 2090.4 | 1920.7 | 1728.9 | 1585.9 | 1480.5 | 1427.0 | 1397.2 | 1390.3 | 1381.1 | 1381.9 |
| 10°   | 2163.0  | 2068.2 | 1818.3 | 1574.5 | 1424.7 | 1355.1 | 1342.1 | 1351.3 | 1362.0 | 1365.1 | 1365.8 |
| 12.5° | 2175.2  | 2048.3 | 1705.9 | 1436.9 | 1323.8 | 1302.4 | 1324.5 | 1355.9 | 1376.5 | 1386.5 | 1385.7 |
| 15°   | 2202.7  | 2033.1 | 1598.2 | 1329.1 | 1268.0 | 1279.4 | 1320.7 | 1365.1 | 1394.9 | 1408.6 | 1409.4 |
| 17.5° | 2232.5  | 2010.9 | 1487.3 | 1246.6 | 1226.7 | 1255.8 | 1307.0 | 1358.9 | 1395.6 | 1410.9 | 1414.0 |
| 20°   | 2271.5  | 1983.4 | 1371.2 | 1184.7 | 1187.7 | 1220.6 | 1268.7 | 1320.7 | 1361.2 | 1374.2 | 1380.3 |
| 22.5° | 2322.7  | 1953.6 | 1269.5 | 1134.2 | 1143.4 | 1168.6 | 1206.1 | 1251.2 | 1286.3 | 1292.4 | 1297.8 |
| 25°   | 2391.5  | 1921.5 | 1188.5 | 1088.4 | 1092.2 | 1106.7 | 1131.9 | 1158.7 | 1183.1 | 1176.3 | 1181.6 |
| 27.5° | 2484.0  | 1894.0 | 1128.1 | 1046.3 | 1039.5 | 1042.5 | 1055.5 | 1063.9 | 1076.9 | 1057.8 | 1060.1 |
| 30°   | 2592.5  | 1864.1 | 1081.5 | 1009.6 | 990.5  | 985.2  | 988.2  | 992.8  | 1002.8 | 976.8  | 973.0  |
| 32.5° | 2718.6  | 1828.2 | 1037.9 | 977.5  | 950.8  | 940.1  | 941.6  | 953.9  | 992.1  | 976.0  | 967.6  |
| 35°   | 2865.4  | 1787.7 | 992.1  | 942.4  | 924.0  | 908.8  | 907.2  | 945.4  | 1059.3 | 1049.4 | 1041.8 |
| 37.5° | 3037.4  | 1747.2 | 946.2  | 902.6  | 904.2  | 887.4  | 882.0  | 925.6  | 1072.3 | 1033.3 | 1028.0 |
| 40°   | 3255.9  | 1725.8 | 907.2  | 860.6  | 879.7  | 877.4  | 866.7  | 888.9  | 986.7  | 915.6  | 906.5  |
| 42.5° | 3526.5  | 1728.9 | 878.2  | 815.5  | 850.7  | 875.1  | 858.3  | 859.1  | 894.2  | 840.7  | 832.3  |
| 45°   | 3860.5  | 1764.8 | 857.6  | 779.6  | 817.8  | 872.8  | 855.3  | 843.0  | 846.1  | 817.8  | 813.2  |
| 47.5° | 4250.3  | 1838.9 | 843.0  | 749.8  | 786.5  | 864.4  | 854.5  | 838.4  | 831.6  | 816.3  | 812.5  |
| 50°   | 4683.7  | 1946.7 | 832.3  | 721.5  | 758.2  | 850.7  | 855.3  | 833.9  | 826.2  | 820.1  | 817.8  |
| 52.5° | 5109.4  | 2069.7 | 816.3  | 697.0  | 736.0  | 833.9  | 857.6  | 829.3  | 820.9  | 816.3  | 814.0  |
| 55°   | 5584.0  | 2223.4 | 791.8  | 676.4  | 717.7  | 812.5  | 857.6  | 822.4  | 813.2  | 814.0  | 813.2  |
| 57.5° | 6225.3  | 2471.8 | 762.8  | 658.8  | 695.5  | 786.5  | 843.0  | 814.8  | 803.3  | 804.1  | 804.8  |
| 60°   | 7227.3  | 2909.7 | 727.6  | 641.3  | 668.0  | 755.9  | 823.2  | 797.9  | 786.5  | 789.5  | 790.3  |
| 62.5° | 8700.9  | 3552.5 | 681.8  | 615.3  | 639.0  | 723.0  | 795.6  | 776.5  | 765.1  | 772.7  | 772.7  |
| 65°   | 10232.5 | 4119.6 | 625.2  | 582.4  | 608.4  | 687.1  | 761.2  | 749.8  | 738.3  | 755.9  | 755.1  |
| 67.5° | 10644.5 | 3992.7 | 568.6  | 546.5  | 577.8  | 647.4  | 720.0  | 713.9  | 707.7  | 738.3  | 736.8  |
| 70°   | 9456.0  | 3205.5 | 516.7  | 509.8  | 544.2  | 604.6  | 675.6  | 675.6  | 671.8  | 694.8  | 689.4  |
| 72.5° | 7204.4  | 2273.0 | 467.0  | 470.8  | 506.0  | 557.9  | 627.5  | 632.8  | 626.7  | 638.2  | 633.6  |
| 75°   | 3856.7  | 1300.9 | 417.3  | 428.0  | 458.6  | 510.6  | 574.0  | 579.3  | 575.5  | 574.8  | 577.1  |
| 77.5° | 1281.7  | 635.9  | 365.3  | 382.2  | 408.9  | 461.6  | 518.2  | 526.6  | 517.4  | 515.9  | 515.1  |
| 80°   | 570.9   | 399.7  | 308.0  | 330.2  | 353.9  | 405.8  | 459.3  | 466.2  | 456.3  | 470.0  | 452.5  |
| 82.5° | 366.9   | 262.9  | 246.9  | 271.3  | 294.3  | 350.1  | 400.5  | 402.0  | 392.9  | 456.3  | 389.0  |
| 85°   | 178.1   | 162.8  | 185.7  | 207.9  | 227.8  | 275.2  | 331.7  | 332.5  | 309.5  | 282.0  | 272.1  |
| 87.5° | 88.7    | 94.8   | 123.8  | 143.7  | 153.6  | 188.8  | 241.5  | 236.9  | 227.0  | 206.4  | 190.3  |
| 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)