

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: P194599

Luminaire Tested: **GAN-AF-01-LED-U-SL4-7060-1200-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194599  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-01-LED-U-SL4-7060-1200-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6496 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

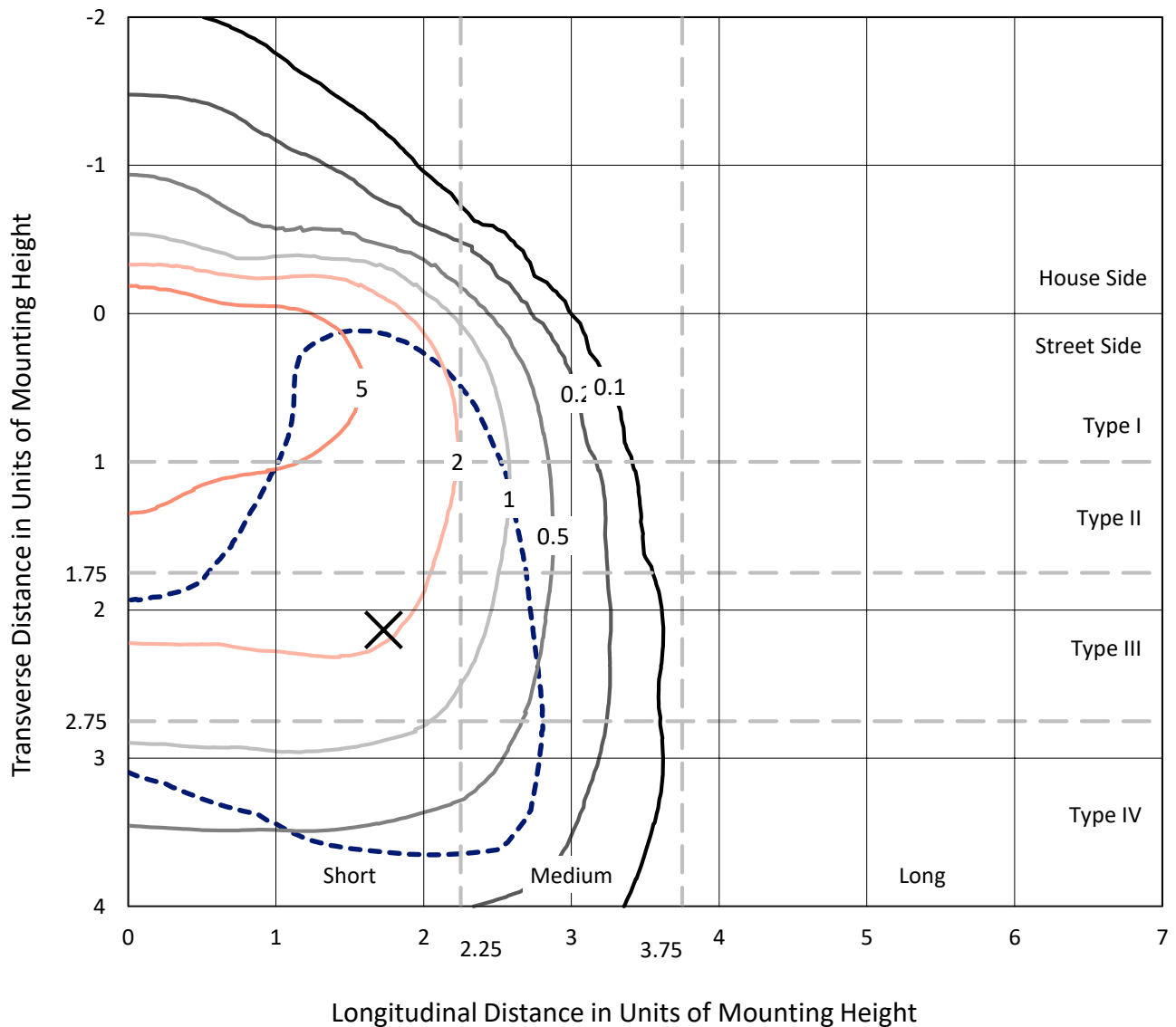


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

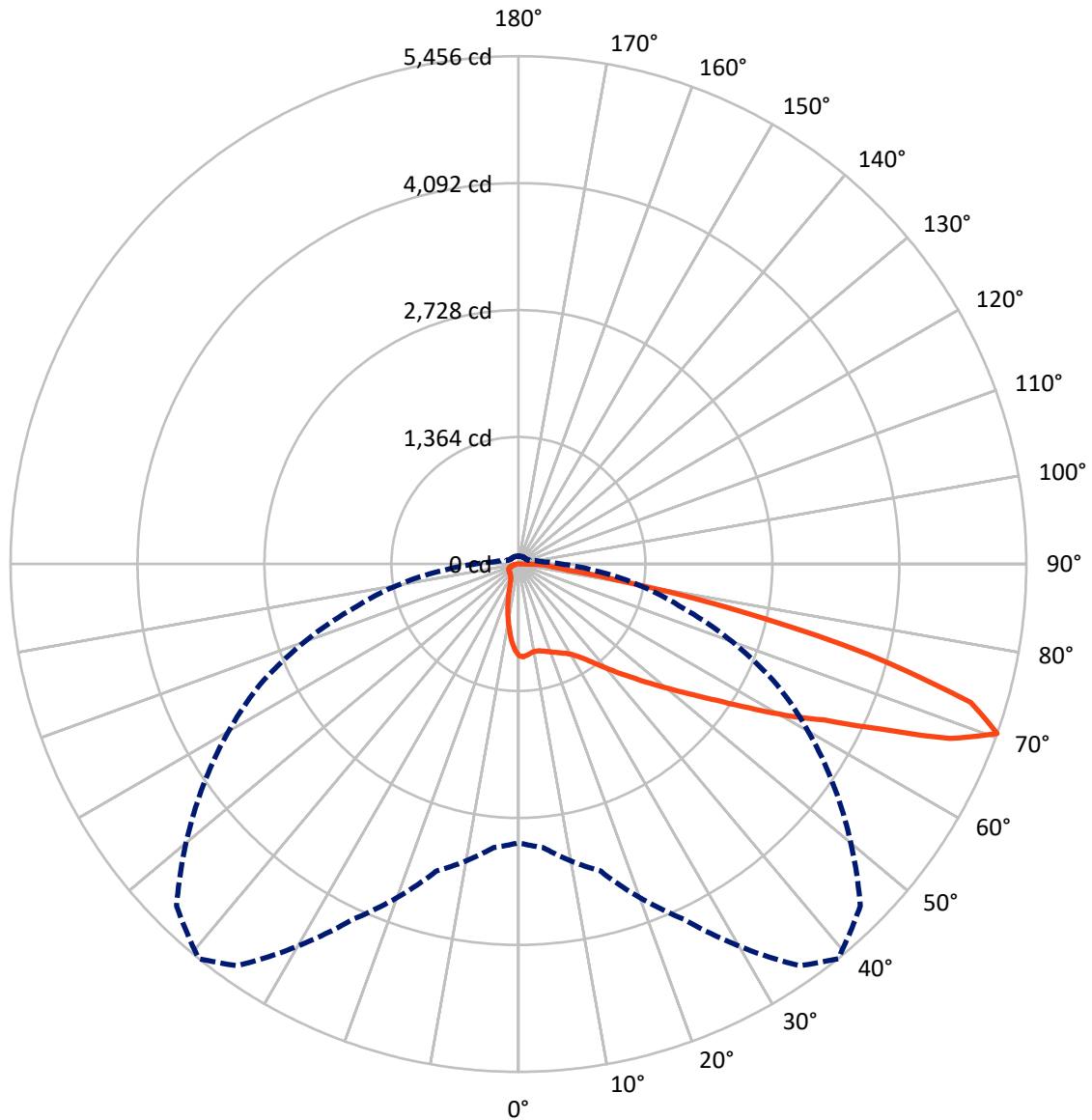


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 738.8    | 0.0    | 738.8  |
|                    | % Fixture | 11.4     | 0.0    | 11.4   |
| <b>Street Side</b> | Lumens    | 5757.2   | 0.0    | 5757.2 |
|                    | % Fixture | 88.6     | 0.0    | 88.6   |
| <b>Total</b>       | Lumens    | 6496.0   | 0.0    | 6496.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 84.6   | 1.3       |
| 10°-20°   | 211.6  | 3.3       |
| 20°-30°   | 329.4  | 5.1       |
| 30°-40°   | 513.1  | 7.9       |
| 40°-50°   | 861.5  | 13.3      |
| 50°-60°   | 1368.5 | 21.1      |
| 60°-70°   | 1825.5 | 28.1      |
| 70°-80°   | 1102.3 | 17.0      |
| 80°-90°   | 199.5  | 3.1       |
| 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°    | 6496.0 | 100.0     |
| 0°-180°   | 6496.0 | 100.0     |

**Coefficient of Utilization**



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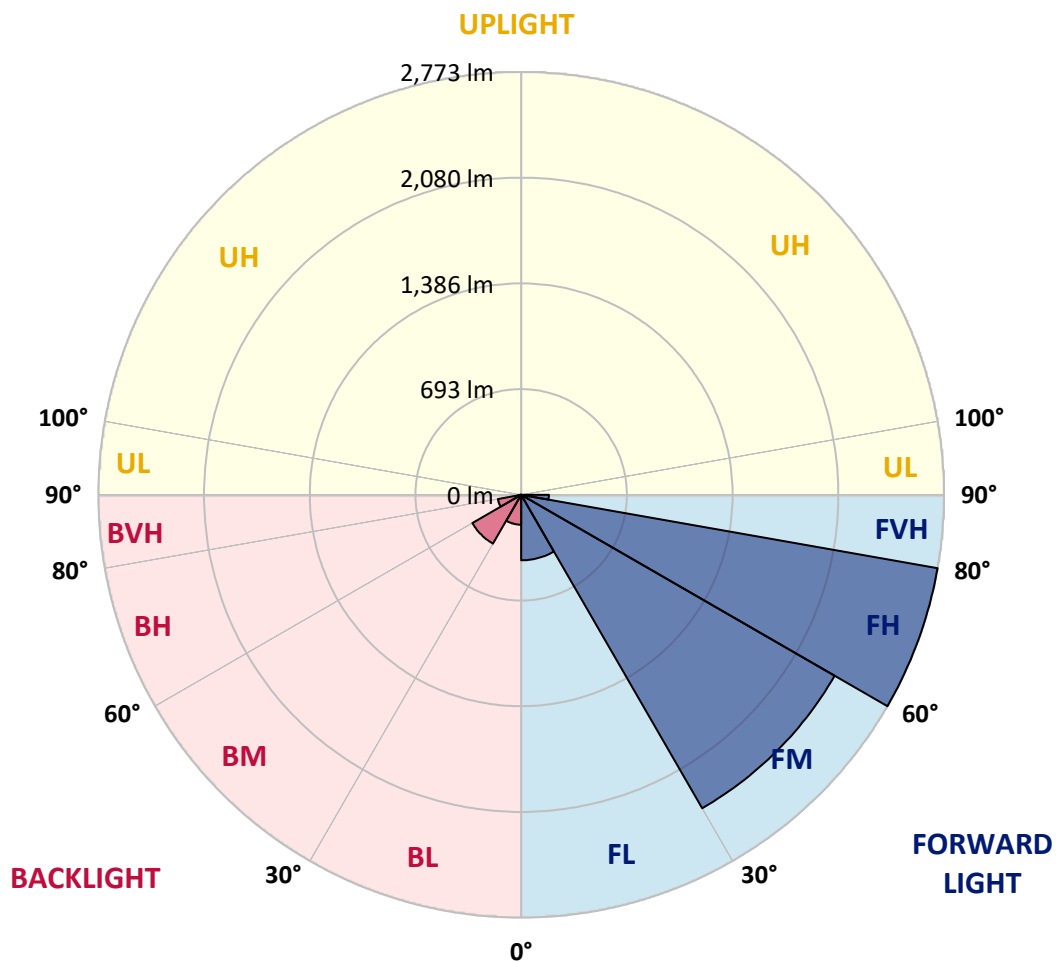
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 429.6  | 6.6       |                         |      |         |
| FM (30°-60°)   | 2373.4 | 36.5      |                         |      |         |
| FH (60°-80°)   | 2772.7 | 42.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 181.5  | 2.8       |                         |      | G2/225  |
| BL (0°-30°)    | 196.0  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 369.7  | 5.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 155.1  | 2.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 18.0   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 986.2  | 986.2  | 986.2  | 986.2  | 986.2  | 986.2  | 986.2  | 986.2  | 986.2  | 986.2  | 986.2  |
| 2.5°  | 1005.3 | 1005.0 | 1002.4 | 1000.4 | 998.7  | 998.1  | 999.4  | 994.5  | 990.2  | 984.9  | 979.3  |
| 5°    | 997.8  | 997.4  | 993.1  | 989.2  | 985.2  | 983.9  | 983.6  | 974.6  | 969.3  | 961.4  | 950.9  |
| 7.5°  | 989.5  | 987.8  | 982.2  | 975.6  | 968.7  | 965.4  | 962.1  | 950.5  | 944.6  | 936.7  | 924.4  |
| 10°   | 980.9  | 978.9  | 973.6  | 967.0  | 960.4  | 955.5  | 949.9  | 938.6  | 932.4  | 926.4  | 912.2  |
| 12.5° | 972.0  | 970.3  | 969.0  | 966.0  | 961.4  | 957.1  | 952.8  | 943.3  | 936.7  | 929.7  | 913.2  |
| 15°   | 970.7  | 970.0  | 973.0  | 975.0  | 972.3  | 969.7  | 965.1  | 956.8  | 949.9  | 942.9  | 921.5  |
| 17.5° | 981.2  | 980.9  | 988.5  | 993.8  | 992.5  | 987.8  | 981.6  | 972.3  | 966.7  | 960.8  | 934.0  |
| 20°   | 1004.4 | 1006.0 | 1015.3 | 1022.2 | 1015.6 | 1009.0 | 998.7  | 985.9  | 982.9  | 980.2  | 946.9  |
| 22.5° | 1048.0 | 1049.6 | 1056.2 | 1058.9 | 1041.7 | 1032.1 | 1017.9 | 1001.4 | 999.4  | 1001.4 | 962.4  |
| 25°   | 1116.0 | 1114.3 | 1113.3 | 1103.4 | 1072.1 | 1057.2 | 1039.0 | 1021.9 | 1022.9 | 1031.8 | 984.2  |
| 27.5° | 1206.2 | 1197.2 | 1183.4 | 1153.6 | 1103.8 | 1087.3 | 1065.1 | 1049.3 | 1055.6 | 1072.7 | 1016.9 |
| 30°   | 1299.6 | 1289.7 | 1257.7 | 1209.1 | 1145.4 | 1127.2 | 1102.4 | 1084.6 | 1101.1 | 1128.2 | 1060.5 |
| 32.5° | 1386.2 | 1384.8 | 1337.9 | 1275.5 | 1202.9 | 1187.0 | 1162.2 | 1142.1 | 1168.8 | 1210.1 | 1125.9 |
| 35°   | 1480.6 | 1483.6 | 1427.4 | 1352.5 | 1280.5 | 1264.0 | 1246.1 | 1230.9 | 1266.6 | 1323.4 | 1220.7 |
| 37.5° | 1581.7 | 1587.6 | 1521.2 | 1436.7 | 1369.0 | 1362.0 | 1351.5 | 1344.9 | 1400.0 | 1478.6 | 1353.1 |
| 40°   | 1716.8 | 1710.8 | 1618.7 | 1531.8 | 1477.6 | 1477.3 | 1474.0 | 1481.9 | 1573.7 | 1681.4 | 1523.2 |
| 42.5° | 1861.4 | 1843.9 | 1722.0 | 1633.9 | 1596.9 | 1608.1 | 1614.7 | 1647.1 | 1782.8 | 1927.8 | 1730.6 |
| 45°   | 2017.3 | 1978.0 | 1829.4 | 1741.9 | 1729.3 | 1753.1 | 1775.5 | 1845.9 | 2028.9 | 2208.2 | 1957.9 |
| 47.5° | 2141.8 | 2103.8 | 1940.4 | 1855.1 | 1882.6 | 1918.6 | 1961.8 | 2073.1 | 2304.3 | 2497.9 | 2182.1 |
| 50°   | 2239.9 | 2215.1 | 2052.3 | 1987.2 | 2051.3 | 2106.8 | 2177.5 | 2330.4 | 2591.0 | 2779.9 | 2389.9 |
| 52.5° | 2335.0 | 2316.5 | 2165.3 | 2122.7 | 2249.5 | 2326.1 | 2422.2 | 2606.5 | 2884.9 | 3057.3 | 2564.6 |
| 55°   | 2420.9 | 2407.7 | 2286.8 | 2291.4 | 2482.7 | 2582.4 | 2703.3 | 2920.9 | 3205.3 | 3304.7 | 2712.5 |
| 57.5° | 2517.7 | 2500.8 | 2425.5 | 2503.1 | 2782.2 | 2911.7 | 3068.9 | 3274.3 | 3505.8 | 3524.7 | 2825.2 |
| 60°   | 2615.1 | 2600.6 | 2579.4 | 2747.5 | 3162.7 | 3298.8 | 3447.7 | 3616.8 | 3810.7 | 3695.4 | 2818.5 |
| 62.5° | 2699.6 | 2701.3 | 2738.6 | 3004.2 | 3535.2 | 3692.8 | 3874.4 | 4041.5 | 4086.5 | 3725.1 | 2610.1 |
| 65°   | 2843.0 | 2869.1 | 2980.4 | 3367.5 | 4059.7 | 4270.4 | 4493.4 | 4466.6 | 4162.8 | 3447.4 | 2163.3 |
| 67.5° | 3013.4 | 3059.3 | 3284.9 | 3851.6 | 4722.6 | 5002.3 | 5088.5 | 4562.7 | 3857.3 | 2802.4 | 1542.0 |
| 70°   | 2996.2 | 3059.3 | 3416.3 | 4212.6 | 5268.8 | 5456.4 | 5194.9 | 4129.4 | 3062.9 | 1830.7 | 819.1  |
| 72.5° | 2660.7 | 2750.8 | 3148.5 | 4047.2 | 5096.8 | 5080.3 | 4509.9 | 3078.5 | 1819.8 | 735.2  | 320.0  |
| 75°   | 2027.9 | 2119.0 | 2461.2 | 3197.4 | 4028.3 | 3889.6 | 3200.0 | 1700.6 | 690.6  | 292.0  | 201.8  |
| 77.5° | 1166.5 | 1237.2 | 1501.4 | 1960.8 | 2555.6 | 2413.3 | 1781.2 | 756.3  | 336.2  | 203.4  | 157.5  |
| 80°   | 651.3  | 690.6  | 851.1  | 994.8  | 1252.4 | 1148.0 | 796.9  | 470.0  | 251.0  | 147.6  | 121.5  |
| 82.5° | 514.9  | 549.9  | 688.3  | 627.5  | 572.0  | 527.8  | 457.8  | 418.5  | 200.5  | 93.1   | 72.7   |
| 85°   | 449.8  | 483.2  | 582.6  | 494.1  | 390.7  | 358.3  | 371.9  | 411.8  | 155.9  | 56.1   | 62.1   |
| 87.5° | 416.8  | 461.4  | 519.2  | 380.8  | 304.2  | 269.5  | 343.2  | 451.5  | 50.2   | 35.0   | 25.1   |
| 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°    | 986.2  | 986.2  | 986.2 | 986.2 | 986.2 | 986.2 | 986.2 | 986.2 | 986.2 | 986.2 | 986.2 |
| 2.5°  | 974.3  | 969.0  | 960.4 | 952.8 | 940.9 | 934.7 | 927.7 | 922.8 | 918.8 | 915.5 | 920.8 |
| 5°    | 944.2  | 934.3  | 916.2 | 896.7 | 873.6 | 855.4 | 840.2 | 826.0 | 816.1 | 809.5 | 814.1 |
| 7.5°  | 915.8  | 899.7  | 871.3 | 835.9 | 796.3 | 762.6 | 734.9 | 710.4 | 693.6 | 682.7 | 687.0 |
| 10°   | 899.7  | 879.5  | 835.6 | 780.1 | 721.6 | 669.1 | 625.5 | 587.9 | 561.8 | 546.9 | 549.2 |
| 12.5° | 895.7  | 869.6  | 808.8 | 732.5 | 652.6 | 579.6 | 518.2 | 466.0 | 429.4 | 410.2 | 410.9 |
| 15°   | 898.7  | 865.3  | 783.7 | 687.0 | 585.9 | 493.8 | 417.1 | 353.7 | 311.1 | 289.3 | 289.0 |
| 17.5° | 903.6  | 862.0  | 757.3 | 637.8 | 518.2 | 411.2 | 325.6 | 263.6 | 225.9 | 208.4 | 207.1 |
| 20°   | 908.9  | 856.7  | 727.6 | 584.6 | 447.8 | 334.6 | 255.0 | 206.4 | 182.6 | 173.1 | 172.4 |
| 22.5° | 916.5  | 852.1  | 696.9 | 528.4 | 378.8 | 272.5 | 209.7 | 177.0 | 164.5 | 159.5 | 158.9 |
| 25°   | 928.7  | 849.8  | 664.2 | 470.0 | 316.7 | 227.9 | 182.6 | 162.5 | 155.2 | 151.9 | 151.6 |
| 27.5° | 949.2  | 853.1  | 633.5 | 413.2 | 266.2 | 197.8 | 167.4 | 155.2 | 149.9 | 147.0 | 146.6 |
| 30°   | 975.6  | 863.3  | 601.1 | 359.3 | 226.9 | 177.4 | 158.2 | 150.3 | 146.0 | 143.0 | 143.0 |
| 32.5° | 1019.6 | 880.5  | 567.1 | 312.8 | 198.8 | 163.2 | 151.3 | 146.0 | 142.3 | 140.0 | 139.7 |
| 35°   | 1084.3 | 912.9  | 535.4 | 274.1 | 178.7 | 152.9 | 145.3 | 141.4 | 138.7 | 137.4 | 137.4 |
| 37.5° | 1178.4 | 964.1  | 507.3 | 246.4 | 166.5 | 146.0 | 139.7 | 136.7 | 135.1 | 135.1 | 135.1 |
| 40°   | 1304.9 | 1034.7 | 484.5 | 227.9 | 159.5 | 141.0 | 135.4 | 133.1 | 132.1 | 132.4 | 132.4 |
| 42.5° | 1461.1 | 1126.6 | 469.3 | 215.0 | 156.2 | 138.1 | 132.4 | 130.5 | 129.5 | 129.1 | 129.5 |
| 45°   | 1639.1 | 1230.9 | 467.7 | 205.4 | 152.9 | 136.1 | 130.5 | 128.5 | 126.5 | 125.2 | 125.2 |
| 47.5° | 1812.2 | 1336.9 | 481.2 | 202.1 | 149.3 | 133.8 | 128.8 | 126.8 | 123.9 | 120.9 | 120.9 |
| 50°   | 1965.1 | 1427.1 | 499.4 | 203.4 | 148.0 | 130.5 | 126.2 | 125.2 | 120.5 | 117.2 | 116.9 |
| 52.5° | 2086.7 | 1496.5 | 514.2 | 207.4 | 149.3 | 128.1 | 122.9 | 123.2 | 118.2 | 114.6 | 114.3 |
| 55°   | 2184.1 | 1542.0 | 510.3 | 211.4 | 152.3 | 126.8 | 119.9 | 120.5 | 116.6 | 113.0 | 113.0 |
| 57.5° | 2226.7 | 1525.2 | 466.3 | 208.1 | 154.6 | 127.2 | 117.6 | 120.2 | 116.9 | 113.6 | 113.6 |
| 60°   | 2135.2 | 1375.6 | 384.1 | 193.5 | 151.6 | 126.2 | 116.6 | 121.5 | 121.2 | 117.9 | 117.6 |
| 62.5° | 1858.4 | 1107.7 | 297.9 | 172.1 | 141.4 | 121.2 | 113.9 | 121.2 | 124.8 | 123.9 | 123.5 |
| 65°   | 1432.4 | 789.0  | 227.6 | 149.0 | 127.5 | 113.0 | 107.0 | 113.6 | 118.6 | 119.9 | 119.6 |
| 67.5° | 929.7  | 483.5  | 175.4 | 127.2 | 112.0 | 103.4 | 98.1  | 101.1 | 102.1 | 102.1 | 101.4 |
| 70°   | 457.1  | 260.3  | 139.7 | 107.0 | 96.1  | 93.1  | 90.2  | 88.5  | 86.9  | 85.5  | 85.5  |
| 72.5° | 225.6  | 170.1  | 114.9 | 90.5  | 82.9  | 81.6  | 80.9  | 78.9  | 77.6  | 76.0  | 75.3  |
| 75°   | 166.8  | 138.4  | 97.8  | 76.3  | 71.3  | 70.0  | 71.3  | 69.7  | 69.4  | 68.0  | 67.4  |
| 77.5° | 137.1  | 117.9  | 84.2  | 65.4  | 61.1  | 58.8  | 60.8  | 61.1  | 61.4  | 59.4  | 58.8  |
| 80°   | 111.3  | 99.7   | 70.3  | 54.2  | 50.2  | 48.6  | 49.9  | 52.5  | 53.2  | 50.2  | 48.9  |
| 82.5° | 80.3   | 81.6   | 56.8  | 42.3  | 39.0  | 37.7  | 40.3  | 43.6  | 44.3  | 40.0  | 39.0  |
| 85°   | 67.4   | 68.0   | 43.6  | 30.1  | 26.8  | 24.8  | 29.1  | 32.4  | 34.7  | 30.4  | 29.4  |
| 87.5° | 28.1   | 40.0   | 25.1  | 16.8  | 14.9  | 12.9  | 15.5  | 17.2  | 20.8  | 19.2  | 18.8  |
| 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)