

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: P193110

Luminaire Tested: **GAN-AF-02-LED-U-T2-7030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P193110  
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-02-LED-U-T2-7030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11558.5 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 113  
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



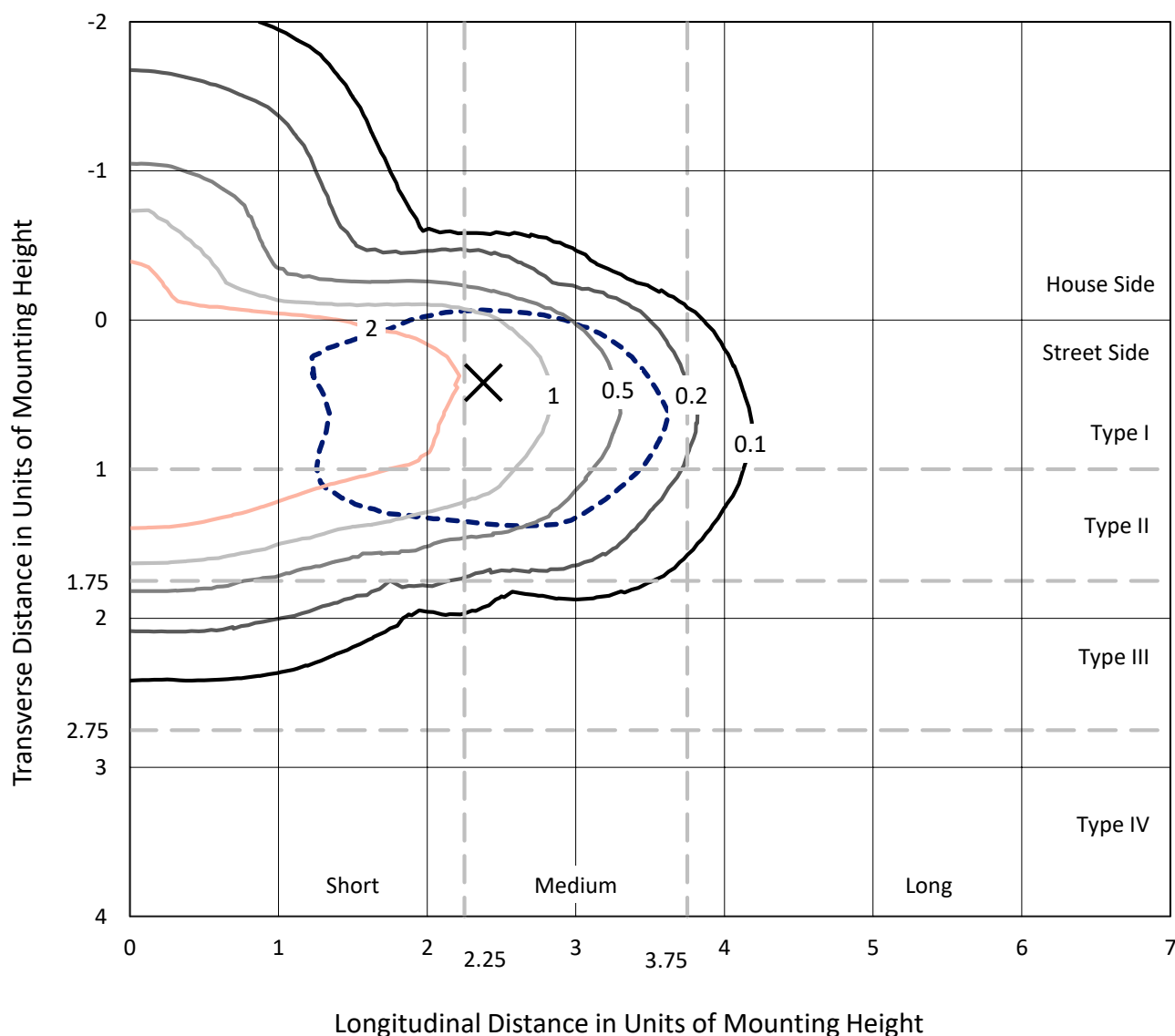
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

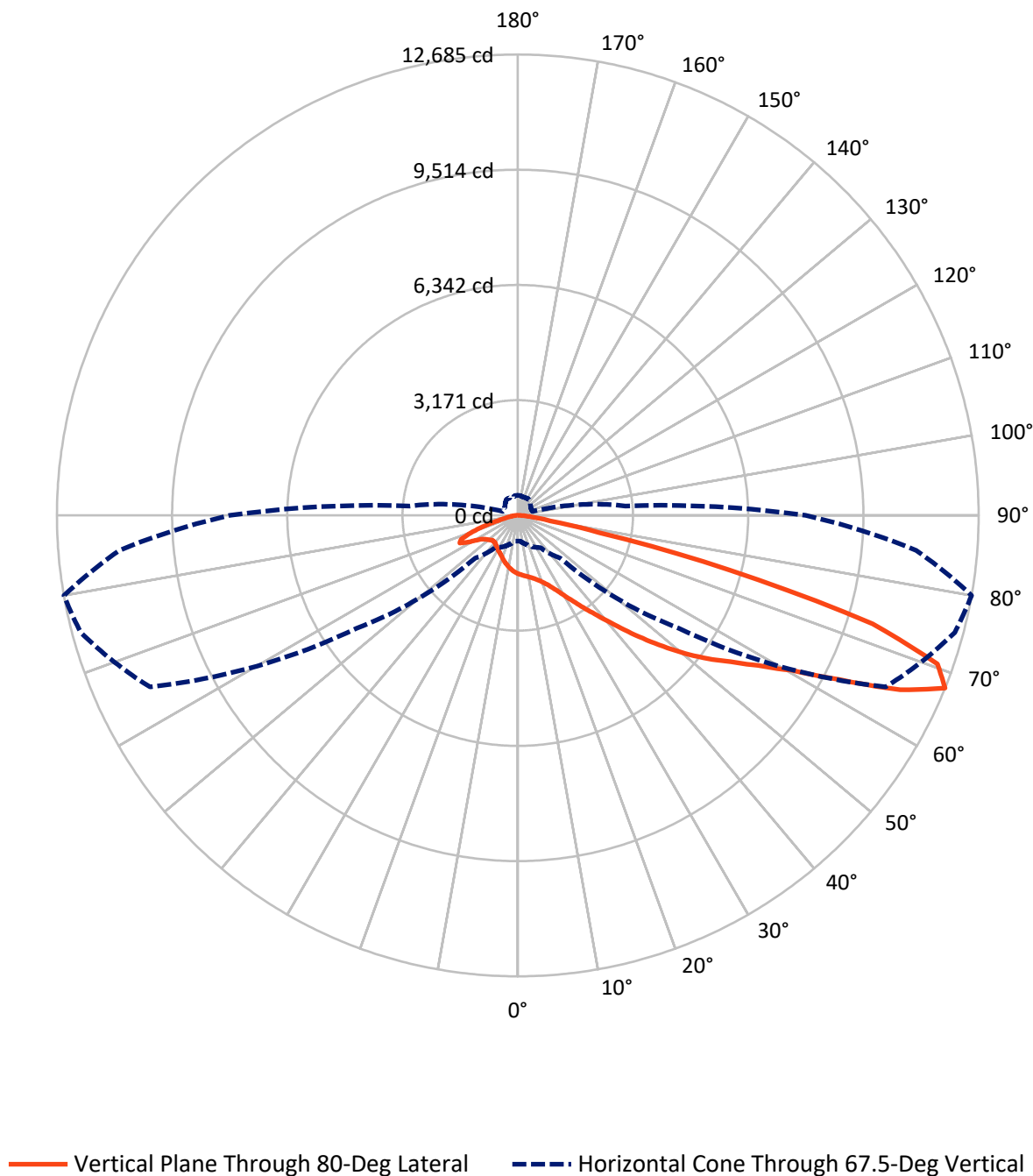


Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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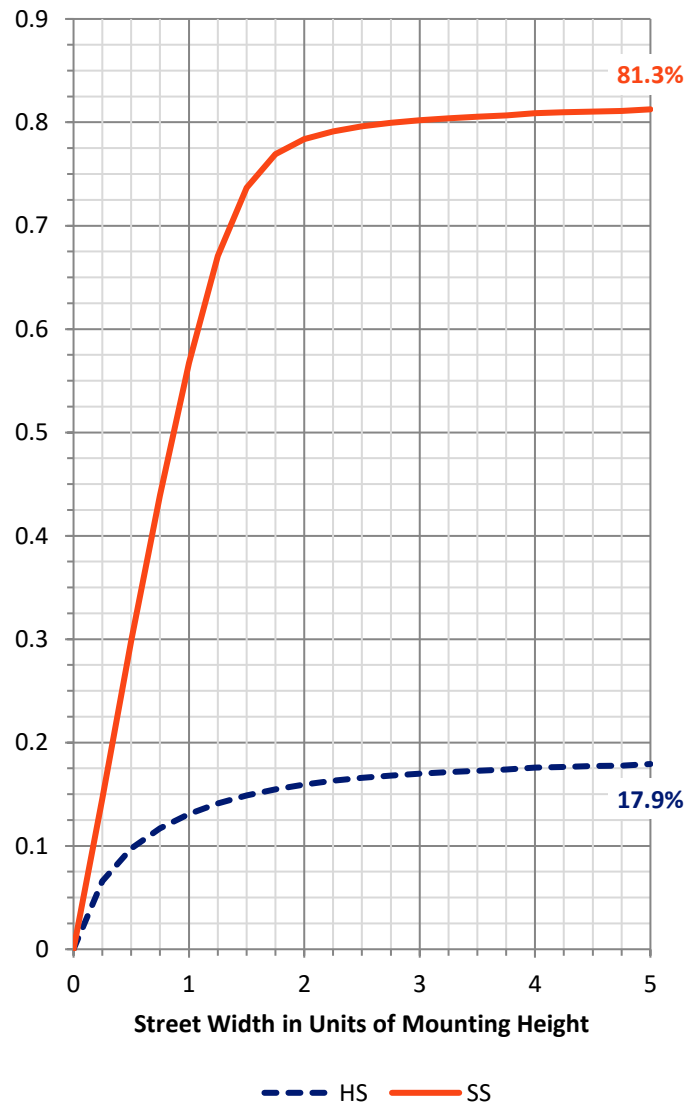
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2128.6   | 0.0    | 2128.6  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 9429.9   | 0.0    | 9429.9  |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 11558.5  | 0.0    | 11558.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 148.1   | 1.3       |
| 10°-20°   | 426.7   | 3.7       |
| 20°-30°   | 706.3   | 6.1       |
| 30°-40°   | 1155.3  | 10.0      |
| 40°-50°   | 1865.4  | 16.1      |
| 50°-60°   | 2693.1  | 23.3      |
| 60°-70°   | 2972.0  | 25.7      |
| 70°-80°   | 1369.9  | 11.9      |
| 80°-90°   | 221.6   | 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°    | 11558.5 | 100.0     |
| 0°-180°   | 11558.5 | 100.0     |

**Coefficient of Utilization**



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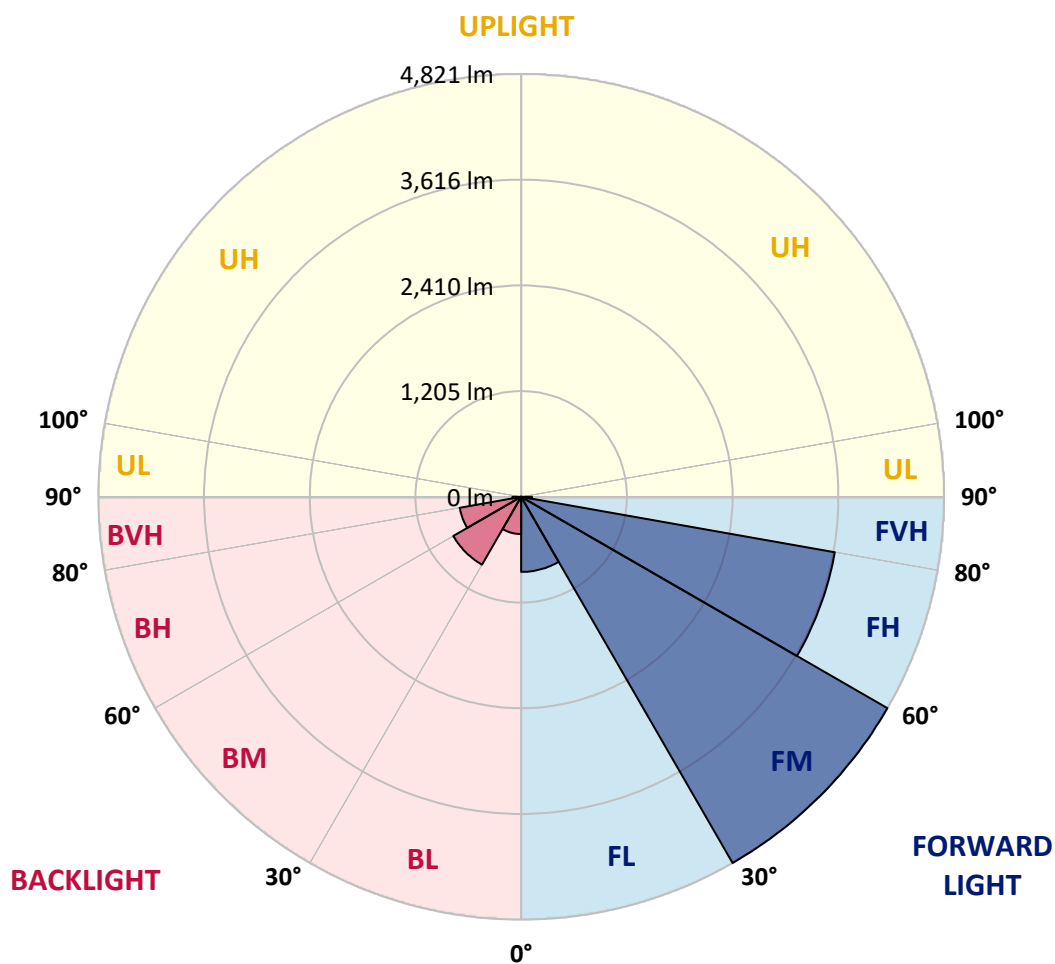
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 856.5  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 4820.8 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 3630.8 | 31.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 121.8  | 1.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 424.7  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 893.1  | 7.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 711.1  | 6.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 99.8   | 0.9       |                         |      | G1/100  |
| 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°    | 1605.8 | 1605.8 | 1605.8 | 1605.8 | 1605.8 | 1605.8 | 1605.8 | 1605.8  | 1605.8  | 1605.8  | 1605.8  |
| 2.5°  | 1756.6 | 1746.4 | 1748.0 | 1745.2 | 1736.6 | 1721.9 | 1706.0 | 1676.9  | 1646.7  | 1630.8  | 1618.3  |
| 5°    | 1903.4 | 1900.6 | 1896.6 | 1887.5 | 1865.8 | 1835.1 | 1797.0 | 1745.9  | 1690.6  | 1661.7  | 1633.8  |
| 7.5°  | 2013.2 | 2011.6 | 2006.4 | 2000.7 | 1979.7 | 1942.7 | 1885.2 | 1812.4  | 1732.2  | 1692.3  | 1649.0  |
| 10°   | 2022.4 | 2025.2 | 2029.2 | 2044.6 | 2047.4 | 2027.6 | 1968.9 | 1880.7  | 1775.4  | 1724.2  | 1668.9  |
| 12.5° | 1945.0 | 1951.3 | 1966.5 | 2005.9 | 2047.4 | 2071.9 | 2041.7 | 1952.4  | 1826.0  | 1764.0  | 1694.1  |
| 15°   | 1842.5 | 1845.9 | 1864.7 | 1918.8 | 1993.3 | 2069.1 | 2097.4 | 2031.4  | 1891.5  | 1815.3  | 1731.5  |
| 17.5° | 1798.7 | 1800.4 | 1813.4 | 1849.3 | 1918.8 | 2026.9 | 2128.8 | 2117.3  | 1971.7  | 1878.9  | 1777.6  |
| 20°   | 1776.5 | 1780.5 | 1799.3 | 1834.6 | 1878.3 | 1972.9 | 2133.3 | 2210.1  | 2067.3  | 1958.6  | 1835.7  |
| 22.5° | 1839.7 | 1838.0 | 1844.9 | 1862.5 | 1899.5 | 1956.4 | 2129.9 | 2305.7  | 2189.1  | 2061.0  | 1911.4  |
| 25°   | 1987.1 | 1993.3 | 1981.4 | 1961.4 | 1973.4 | 2013.2 | 2148.1 | 2409.2  | 2341.5  | 2192.5  | 2010.4  |
| 27.5° | 2197.1 | 2190.7 | 2173.1 | 2126.5 | 2102.0 | 2119.1 | 2208.4 | 2520.8  | 2531.1  | 2365.5  | 2141.3  |
| 30°   | 2406.4 | 2401.3 | 2384.2 | 2327.3 | 2277.3 | 2263.1 | 2325.7 | 2648.9  | 2756.9  | 2573.2  | 2301.8  |
| 32.5° | 2623.9 | 2618.2 | 2602.2 | 2545.3 | 2485.0 | 2452.0 | 2492.4 | 2796.8  | 3023.3  | 2821.3  | 2490.7  |
| 35°   | 2891.9 | 2881.0 | 2847.4 | 2768.3 | 2709.2 | 2683.5 | 2702.3 | 2982.9  | 3330.6  | 3114.9  | 2720.0  |
| 37.5° | 3143.9 | 3160.5 | 3126.2 | 3016.9 | 2940.1 | 2931.1 | 2952.1 | 3209.9  | 3661.8  | 3443.2  | 2983.5  |
| 40°   | 3397.1 | 3400.0 | 3369.2 | 3280.0 | 3200.9 | 3186.0 | 3239.0 | 3485.4  | 4052.7  | 3835.9  | 3303.8  |
| 42.5° | 3658.9 | 3664.5 | 3612.7 | 3530.2 | 3472.3 | 3475.1 | 3535.4 | 3808.0  | 4501.1  | 4298.5  | 3672.5  |
| 45°   | 3969.1 | 3977.6 | 3920.7 | 3812.5 | 3759.6 | 3866.0 | 3841.0 | 4169.9  | 4992.7  | 4824.3  | 4095.9  |
| 47.5° | 4293.4 | 4306.5 | 4263.2 | 4161.9 | 4095.9 | 4242.2 | 4146.6 | 4571.1  | 5522.0  | 5388.2  | 4560.8  |
| 50°   | 4470.4 | 4489.1 | 4531.2 | 4523.9 | 4509.5 | 4485.1 | 4487.4 | 5001.3  | 6067.6  | 5975.4  | 5038.8  |
| 52.5° | 4375.3 | 4374.7 | 4528.4 | 4715.0 | 4914.2 | 4929.0 | 4902.8 | 5454.8  | 6577.5  | 6549.5  | 5488.9  |
| 55°   | 3940.6 | 3970.2 | 4202.8 | 4564.2 | 5108.2 | 5448.0 | 5525.3 | 5974.3  | 7078.3  | 7110.7  | 5945.9  |
| 57.5° | 3216.7 | 3241.1 | 3555.3 | 4059.0 | 4846.5 | 5756.4 | 6410.8 | 6729.4  | 7638.2  | 7789.5  | 6554.1  |
| 60°   | 2181.7 | 2211.3 | 2544.1 | 3149.1 | 4142.0 | 5584.5 | 7253.5 | 8076.9  | 8308.5  | 8652.8  | 7407.7  |
| 62.5° | 1282.0 | 1308.8 | 1580.2 | 1986.6 | 2916.3 | 4786.1 | 7623.3 | 9994.0  | 9373.2  | 9955.2  | 8709.6  |
| 65°   | 882.6  | 900.8  | 1032.8 | 1236.5 | 1675.8 | 3223.5 | 7164.6 | 11317.5 | 11011.3 | 11569.0 | 10219.3 |
| 67.5° | 710.1  | 707.9  | 812.6  | 951.4  | 1078.9 | 1662.2 | 5417.7 | 11167.9 | 12452.2 | 12684.9 | 11002.9 |
| 70°   | 585.0  | 582.7  | 653.8  | 768.7  | 862.0  | 936.1  | 2951.0 | 9424.3  | 12158.6 | 12253.0 | 10281.3 |
| 72.5° | 489.4  | 491.6  | 537.1  | 622.6  | 707.4  | 705.0  | 1296.8 | 6629.9  | 9564.9  | 10218.2 | 8195.9  |
| 75°   | 413.1  | 414.3  | 444.4  | 504.8  | 574.1  | 567.9  | 703.3  | 3591.8  | 5560.1  | 6014.7  | 4543.2  |
| 77.5° | 351.7  | 352.8  | 372.1  | 405.7  | 455.2  | 453.0  | 513.3  | 1551.8  | 2319.3  | 2290.9  | 1554.0  |
| 80°   | 313.6  | 313.6  | 322.7  | 328.9  | 356.1  | 346.1  | 380.7  | 745.4   | 980.5   | 905.3   | 620.3   |
| 82.5° | 245.9  | 246.9  | 302.7  | 300.5  | 280.6  | 267.4  | 267.4  | 439.3   | 519.5   | 480.3   | 363.1   |
| 85°   | 138.3  | 137.6  | 195.1  | 235.6  | 246.9  | 188.4  | 186.7  | 245.9   | 282.8   | 249.2   | 175.8   |
| 87.5° | 59.2   | 60.3   | 90.4   | 104.7  | 140.0  | 117.2  | 115.5  | 126.8   | 144.0   | 124.7   | 81.4    |
| 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°    | 1605.8 | 1605.8 | 1605.8 | 1605.8 | 1605.8 | 1605.8 | 1605.8 | 1605.8 | 1605.8 | 1605.8 | 1605.8 |
| 2.5°  | 1606.4 | 1591.6 | 1559.1 | 1518.7 | 1482.3 | 1458.4 | 1436.8 | 1405.5 | 1407.3 | 1385.6 | 1369.7 |
| 5°    | 1605.2 | 1574.5 | 1499.4 | 1410.1 | 1324.1 | 1262.2 | 1215.5 | 1173.3 | 1163.1 | 1143.2 | 1131.3 |
| 7.5°  | 1606.4 | 1556.3 | 1429.9 | 1287.2 | 1180.8 | 1102.2 | 1062.4 | 1040.1 | 1035.1 | 1028.2 | 1028.7 |
| 10°   | 1610.4 | 1539.8 | 1353.7 | 1172.3 | 1060.7 | 1008.9 | 999.1  | 1006.1 | 1014.0 | 1016.3 | 1016.8 |
| 12.5° | 1619.4 | 1525.0 | 1270.1 | 1069.7 | 985.5  | 969.6  | 986.2  | 1009.4 | 1024.9 | 1032.3 | 1031.6 |
| 15°   | 1640.0 | 1513.7 | 1189.9 | 989.6  | 944.0  | 952.5  | 983.4  | 1016.3 | 1038.5 | 1048.8 | 1049.3 |
| 17.5° | 1662.2 | 1497.2 | 1107.4 | 928.0  | 913.3  | 934.9  | 973.1  | 1011.7 | 1039.0 | 1050.4 | 1052.7 |
| 20°   | 1691.3 | 1476.6 | 1020.8 | 882.0  | 884.2  | 908.7  | 944.5  | 983.4  | 1013.5 | 1023.1 | 1027.7 |
| 22.5° | 1729.2 | 1454.5 | 945.2  | 844.5  | 851.2  | 870.0  | 897.9  | 931.6  | 957.6  | 962.2  | 966.2  |
| 25°   | 1780.5 | 1430.5 | 884.9  | 810.2  | 813.1  | 824.0  | 842.7  | 862.7  | 880.8  | 875.7  | 879.7  |
| 27.5° | 1849.3 | 1410.1 | 839.8  | 779.0  | 773.9  | 776.2  | 785.8  | 792.1  | 801.8  | 787.5  | 789.3  |
| 30°   | 1930.2 | 1387.9 | 805.1  | 751.7  | 737.5  | 733.4  | 735.8  | 739.1  | 746.6  | 727.2  | 724.4  |
| 32.5° | 2024.0 | 1361.2 | 772.8  | 727.7  | 707.9  | 700.0  | 701.0  | 710.1  | 738.6  | 726.7  | 720.3  |
| 35°   | 2133.3 | 1331.0 | 738.6  | 701.7  | 688.0  | 676.6  | 675.4  | 703.8  | 788.7  | 781.3  | 775.6  |
| 37.5° | 2261.3 | 1300.8 | 704.5  | 672.1  | 673.1  | 660.7  | 656.6  | 689.1  | 798.3  | 769.3  | 765.4  |
| 40°   | 2424.1 | 1284.9 | 675.4  | 640.7  | 655.0  | 653.3  | 645.2  | 661.8  | 734.7  | 681.7  | 674.9  |
| 42.5° | 2625.5 | 1287.2 | 653.8  | 607.2  | 633.3  | 651.5  | 639.0  | 639.6  | 665.7  | 625.9  | 619.7  |
| 45°   | 2874.2 | 1314.0 | 638.5  | 580.3  | 608.9  | 649.9  | 636.8  | 627.7  | 629.9  | 608.9  | 605.4  |
| 47.5° | 3164.3 | 1369.1 | 627.7  | 558.2  | 585.5  | 643.5  | 636.2  | 624.2  | 619.1  | 607.7  | 604.9  |
| 50°   | 3487.0 | 1449.4 | 619.7  | 537.1  | 564.5  | 633.3  | 636.8  | 620.8  | 615.1  | 610.5  | 608.9  |
| 52.5° | 3804.0 | 1541.0 | 607.7  | 519.0  | 547.9  | 620.8  | 638.5  | 617.5  | 611.2  | 607.7  | 606.1  |
| 55°   | 4157.5 | 1655.3 | 589.6  | 503.5  | 534.3  | 604.9  | 638.5  | 612.3  | 605.4  | 606.1  | 605.4  |
| 57.5° | 4634.8 | 1840.3 | 567.9  | 490.5  | 517.8  | 585.5  | 627.7  | 606.6  | 598.0  | 598.6  | 599.2  |
| 60°   | 5380.8 | 2166.3 | 541.7  | 477.5  | 497.3  | 562.8  | 612.8  | 594.1  | 585.5  | 587.9  | 588.4  |
| 62.5° | 6477.9 | 2644.8 | 507.6  | 458.2  | 475.8  | 538.3  | 592.4  | 578.1  | 569.6  | 575.2  | 575.2  |
| 65°   | 7618.2 | 3067.1 | 465.5  | 433.6  | 453.0  | 511.6  | 566.7  | 558.2  | 549.7  | 562.8  | 562.2  |
| 67.5° | 7924.9 | 2972.6 | 423.4  | 406.9  | 430.2  | 482.0  | 536.0  | 531.4  | 526.9  | 549.7  | 548.6  |
| 70°   | 7040.1 | 2386.5 | 384.7  | 379.5  | 405.2  | 450.1  | 503.0  | 503.0  | 500.2  | 517.3  | 513.3  |
| 72.5° | 5363.7 | 1692.3 | 347.7  | 350.5  | 376.7  | 415.4  | 467.2  | 471.1  | 466.6  | 475.2  | 471.8  |
| 75°   | 2871.4 | 968.5  | 310.8  | 318.7  | 341.4  | 380.1  | 427.3  | 431.3  | 428.6  | 428.0  | 429.6  |
| 77.5° | 954.3  | 473.4  | 271.9  | 284.5  | 304.4  | 343.7  | 385.8  | 392.0  | 385.2  | 384.0  | 383.5  |
| 80°   | 425.0  | 297.6  | 229.3  | 245.9  | 263.5  | 302.2  | 342.0  | 347.1  | 339.7  | 349.9  | 336.8  |
| 82.5° | 273.1  | 195.8  | 183.8  | 202.0  | 219.1  | 260.6  | 298.2  | 299.3  | 292.5  | 339.7  | 289.6  |
| 85°   | 132.5  | 121.2  | 138.3  | 154.8  | 169.6  | 204.9  | 246.9  | 247.6  | 230.4  | 210.0  | 202.5  |
| 87.5° | 66.0   | 70.6   | 92.3   | 107.0  | 114.4  | 140.5  | 179.8  | 176.5  | 169.1  | 153.6  | 141.7  |
| 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)