

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: P193972

Luminaire Tested: **GAN-AF-04-LED-U-T3-8030-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193972  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
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-T3-8030-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12912 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - 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

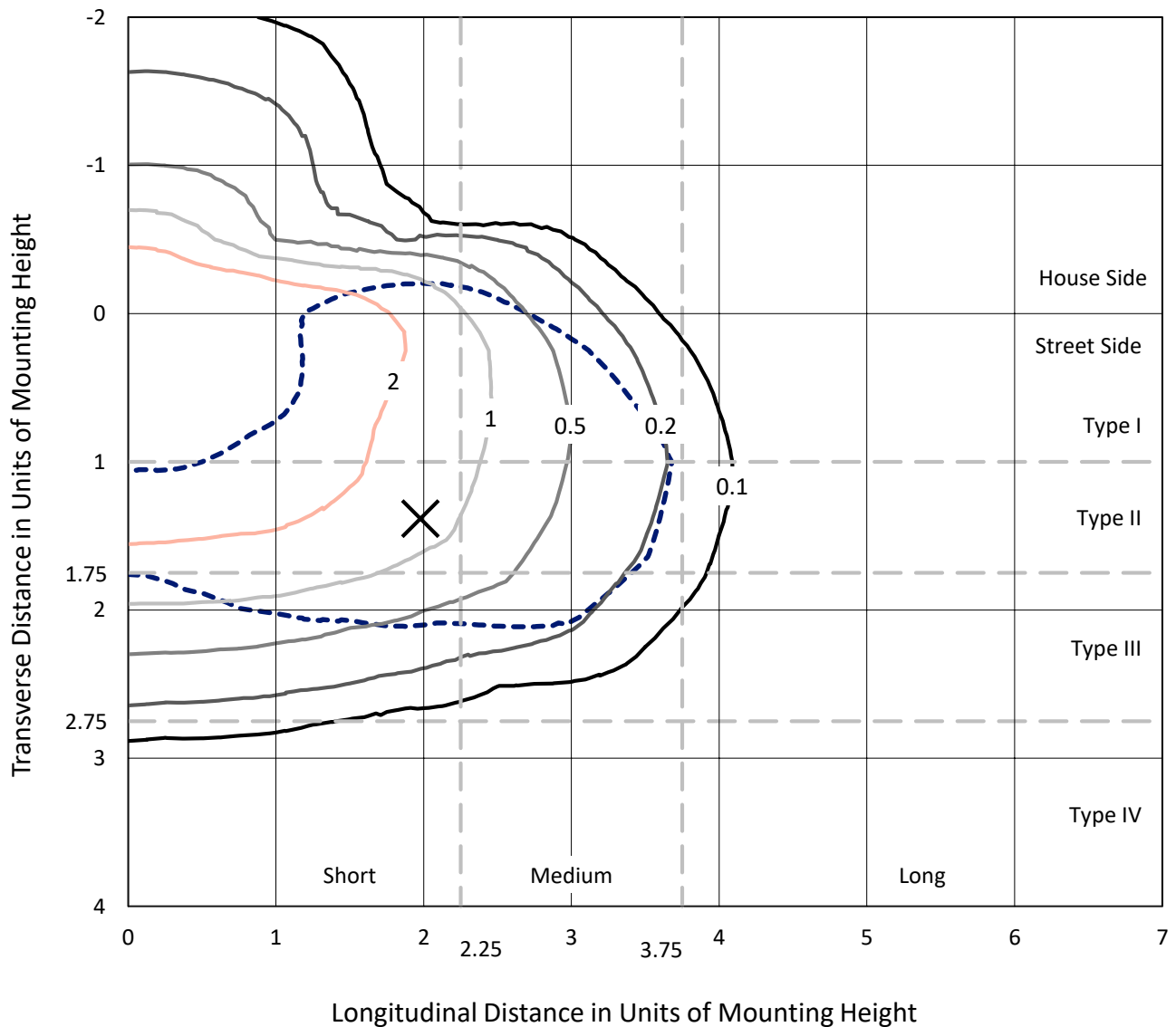


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

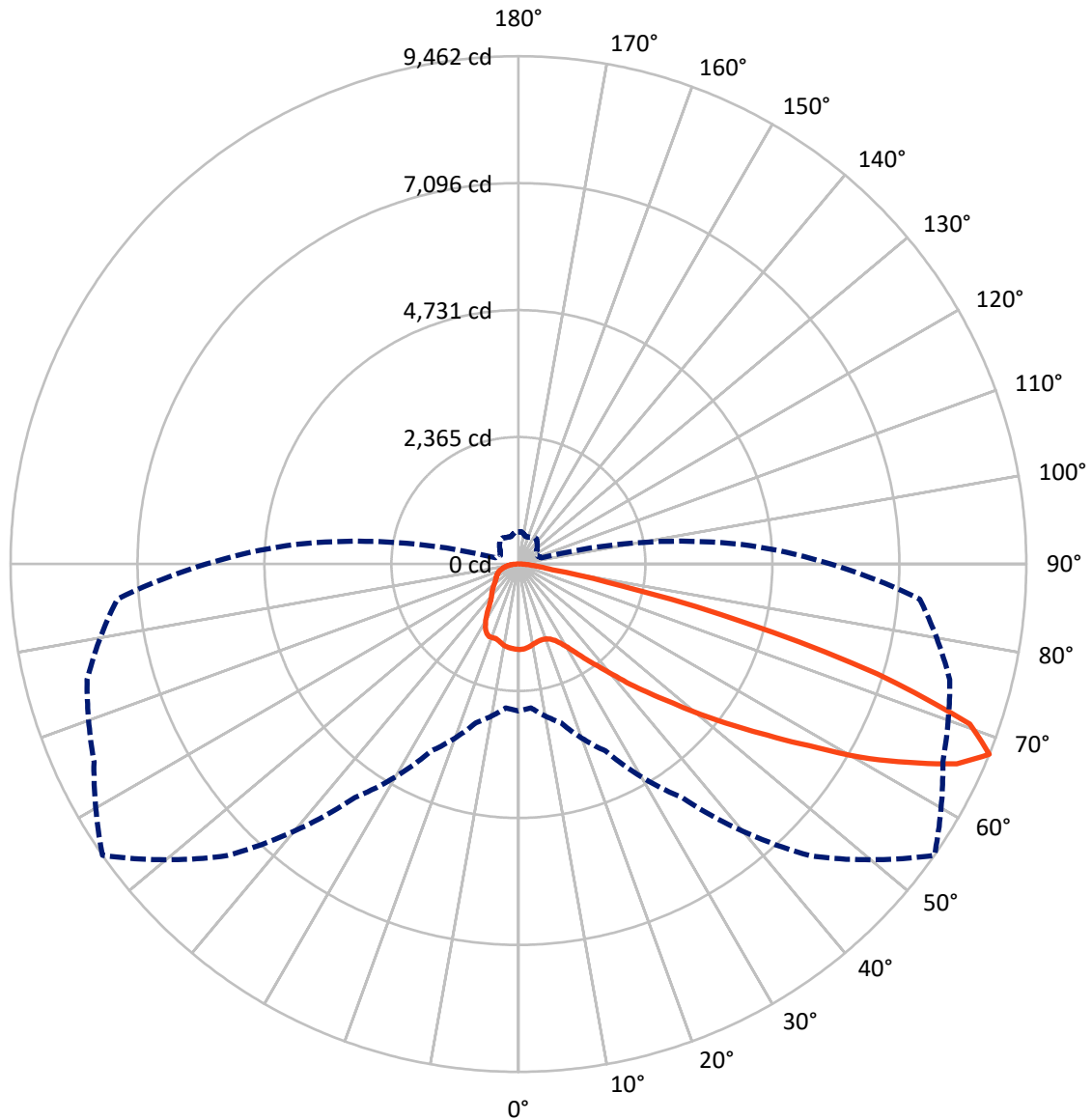


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2789.3   | 0.0    | 2789.3  |
|                    | % Fixture | 21.6     | 0.0    | 21.6    |
| <b>Street Side</b> | Lumens    | 10122.7  | 0.0    | 10122.7 |
|                    | % Fixture | 78.4     | 0.0    | 78.4    |
| <b>Total</b>       | Lumens    | 12912.0  | 0.0    | 12912.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 148.6   | 1.2       |
| 10°-20°   | 420.9   | 3.3       |
| 20°-30°   | 705.1   | 5.5       |
| 30°-40°   | 1159.4  | 9.0       |
| 40°-50°   | 1951.7  | 15.1      |
| 50°-60°   | 3071.8  | 23.8      |
| 60°-70°   | 3665.8  | 28.4      |
| 70°-80°   | 1574.2  | 12.2      |
| 80°-90°   | 214.6   | 1.7       |
| 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°    | 12912.0 | 100.0     |
| 0°-180°   | 12912.0 | 100.0     |



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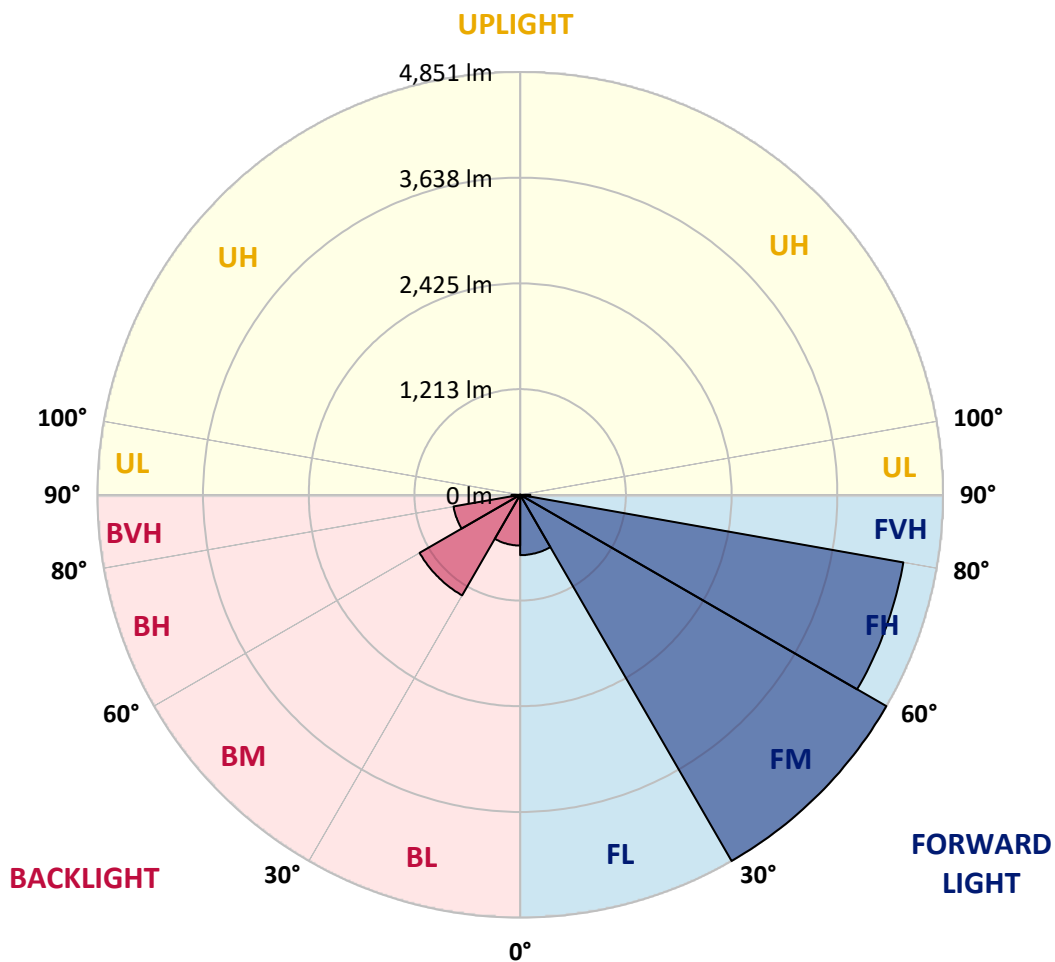
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 692.1  | 5.4       |                         |      |         |
| FM (30°-60°)   | 4850.7 | 37.6      |                         |      |         |
| FH (60°-80°)   | 4463.7 | 34.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 116.2  | 0.9       |                         |      | G2/225  |
| BL (0°-30°)    | 582.5  | 4.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 1332.1 | 10.3      | B2/2500                 |      |         |
| BH (60°-80°)   | 776.2  | 6.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 98.4   | 0.8       |                         |      | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1592.2 | 1592.2 | 1592.2 | 1592.2 | 1592.2 | 1592.2 | 1592.2 | 1592.2 | 1592.2 | 1592.2 | 1592.2 |
| 2.5°  | 1578.5 | 1579.1 | 1580.3 | 1585.3 | 1589.7 | 1588.4 | 1589.1 | 1586.6 | 1586.0 | 1582.2 | 1586.0 |
| 5°    | 1558.5 | 1560.4 | 1561.0 | 1569.1 | 1574.1 | 1575.4 | 1573.5 | 1570.4 | 1566.6 | 1562.9 | 1564.7 |
| 7.5°  | 1513.0 | 1518.0 | 1518.6 | 1529.8 | 1537.9 | 1548.5 | 1549.2 | 1549.8 | 1547.9 | 1545.4 | 1549.2 |
| 10°   | 1484.3 | 1485.5 | 1484.9 | 1493.0 | 1499.3 | 1511.1 | 1518.0 | 1529.8 | 1534.8 | 1536.1 | 1538.6 |
| 12.5° | 1482.4 | 1481.2 | 1479.3 | 1479.3 | 1477.4 | 1482.4 | 1494.9 | 1511.7 | 1523.6 | 1527.3 | 1530.4 |
| 15°   | 1502.4 | 1501.8 | 1495.5 | 1486.2 | 1474.3 | 1470.6 | 1481.2 | 1499.9 | 1515.5 | 1523.6 | 1526.7 |
| 17.5° | 1547.3 | 1543.5 | 1533.6 | 1512.4 | 1486.8 | 1476.8 | 1478.1 | 1493.7 | 1511.7 | 1522.3 | 1525.5 |
| 20°   | 1629.6 | 1629.6 | 1608.4 | 1568.5 | 1523.0 | 1499.3 | 1488.0 | 1497.4 | 1514.9 | 1529.2 | 1533.6 |
| 22.5° | 1771.8 | 1773.1 | 1737.5 | 1672.0 | 1595.3 | 1544.8 | 1516.7 | 1514.9 | 1535.4 | 1551.7 | 1556.6 |
| 25°   | 1973.2 | 1968.3 | 1918.4 | 1824.8 | 1708.2 | 1624.6 | 1576.0 | 1564.7 | 1582.2 | 1600.3 | 1606.5 |
| 27.5° | 2207.7 | 2189.7 | 2130.4 | 2017.5 | 1866.6 | 1744.4 | 1669.5 | 1651.4 | 1668.3 | 1688.9 | 1695.1 |
| 30°   | 2439.7 | 2421.0 | 2350.6 | 2227.1 | 2059.3 | 1904.6 | 1797.4 | 1768.1 | 1791.8 | 1821.1 | 1824.8 |
| 32.5° | 2671.7 | 2671.7 | 2593.2 | 2449.1 | 2266.4 | 2096.1 | 1967.6 | 1932.7 | 1972.0 | 2007.5 | 2015.7 |
| 35°   | 2949.3 | 2950.5 | 2874.4 | 2701.0 | 2504.6 | 2324.4 | 2182.8 | 2157.2 | 2216.5 | 2241.4 | 2260.7 |
| 37.5° | 3290.4 | 3297.3 | 3199.3 | 2989.8 | 2774.6 | 2585.0 | 2416.7 | 2381.7 | 2441.0 | 2509.0 | 2571.3 |
| 40°   | 3659.0 | 3667.7 | 3559.8 | 3301.6 | 3086.5 | 2888.1 | 2706.0 | 2643.0 | 2741.6 | 2871.3 | 2951.8 |
| 42.5° | 4010.7 | 4055.6 | 3951.5 | 3685.8 | 3454.4 | 3249.2 | 3064.6 | 2973.0 | 3096.4 | 3292.3 | 3362.1 |
| 45°   | 4519.0 | 4551.4 | 4369.9 | 4129.2 | 3911.6 | 3682.1 | 3437.6 | 3340.9 | 3513.7 | 3760.6 | 3775.0 |
| 47.5° | 4857.6 | 4833.3 | 4741.0 | 4591.3 | 4453.5 | 4239.0 | 3871.0 | 3765.0 | 3994.5 | 4285.1 | 4204.7 |
| 50°   | 5037.9 | 5045.4 | 5032.9 | 5041.6 | 5046.6 | 4911.9 | 4402.4 | 4257.1 | 4530.9 | 4882.0 | 4696.7 |
| 52.5° | 5206.3 | 5156.4 | 5197.5 | 5402.1 | 5649.1 | 5599.2 | 4980.5 | 4829.0 | 5105.9 | 5544.3 | 5216.9 |
| 55°   | 5202.5 | 5126.4 | 5260.5 | 5621.6 | 6157.3 | 6214.7 | 5629.7 | 5455.1 | 5713.9 | 6254.6 | 5768.2 |
| 57.5° | 5018.5 | 5022.3 | 5228.7 | 5701.5 | 6511.6 | 6793.5 | 6383.1 | 6121.2 | 6358.8 | 6974.3 | 6271.5 |
| 60°   | 4765.3 | 4799.6 | 5097.1 | 5688.4 | 6795.3 | 7268.1 | 7307.4 | 6839.0 | 6990.5 | 7628.5 | 6688.1 |
| 62.5° | 4356.9 | 4393.0 | 4803.4 | 5552.4 | 6752.3 | 7725.2 | 8143.1 | 7653.5 | 7651.0 | 8025.2 | 6810.3 |
| 65°   | 3712.6 | 3702.0 | 4133.0 | 5044.1 | 6391.2 | 8063.2 | 8973.1 | 8357.6 | 8148.7 | 8031.4 | 6564.6 |
| 67.5° | 2737.8 | 2690.4 | 3060.3 | 3841.7 | 5312.3 | 7684.7 | 9461.5 | 8724.3 | 8318.3 | 7503.2 | 5813.7 |
| 70°   | 1420.7 | 1373.3 | 1672.6 | 2243.3 | 3493.7 | 5997.7 | 8920.8 | 8534.7 | 7943.5 | 6289.6 | 4554.6 |
| 72.5° | 607.4  | 599.3  | 720.9  | 984.1  | 1690.1 | 3459.4 | 6994.9 | 7387.2 | 6815.9 | 4686.1 | 3131.4 |
| 75°   | 408.5  | 406.0  | 451.5  | 536.3  | 760.2  | 1403.8 | 4377.4 | 5243.7 | 4986.7 | 2905.6 | 1761.2 |
| 77.5° | 320.6  | 317.4  | 344.3  | 385.4  | 492.7  | 553.8  | 1942.7 | 2815.2 | 2605.6 | 1264.8 | 770.8  |
| 80°   | 250.7  | 248.2  | 265.1  | 287.5  | 354.2  | 349.2  | 639.2  | 1120.1 | 866.9  | 484.6  | 374.8  |
| 82.5° | 197.7  | 197.7  | 211.4  | 212.0  | 251.3  | 238.2  | 333.7  | 493.3  | 432.8  | 282.5  | 229.5  |
| 85°   | 180.9  | 180.9  | 195.2  | 158.4  | 164.0  | 150.3  | 207.1  | 292.5  | 274.4  | 116.0  | 99.8   |
| 87.5° | 91.1   | 88.6   | 164.0  | 140.3  | 89.2   | 79.8   | 101.0  | 141.6  | 152.2  | 64.2   | 49.9   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1592.2 | 1592.2 | 1592.2 | 1592.2 | 1592.2 | 1592.2 | 1592.2 | 1592.2 | 1592.2 | 1592.2 |
| 2.5°  | 1584.7 | 1584.1 | 1585.3 | 1586.0 | 1590.9 | 1597.8 | 1600.9 | 1605.3 | 1607.8 | 1606.5 |
| 5°    | 1566.0 | 1567.2 | 1572.2 | 1576.0 | 1584.7 | 1595.9 | 1602.2 | 1607.2 | 1611.5 | 1609.7 |
| 7.5°  | 1550.4 | 1553.5 | 1561.0 | 1564.1 | 1569.1 | 1572.2 | 1571.6 | 1573.5 | 1577.2 | 1572.9 |
| 10°   | 1541.7 | 1545.4 | 1551.0 | 1546.7 | 1534.8 | 1518.0 | 1502.4 | 1494.3 | 1496.8 | 1493.7 |
| 12.5° | 1532.9 | 1537.9 | 1533.6 | 1513.0 | 1479.9 | 1458.1 | 1446.3 | 1447.5 | 1453.1 | 1454.4 |
| 15°   | 1528.0 | 1529.8 | 1511.1 | 1472.4 | 1438.8 | 1435.7 | 1441.9 | 1440.6 | 1441.3 | 1441.3 |
| 17.5° | 1528.0 | 1523.0 | 1488.0 | 1449.4 | 1435.0 | 1429.4 | 1410.1 | 1385.8 | 1375.2 | 1371.4 |
| 20°   | 1536.1 | 1523.0 | 1480.6 | 1455.0 | 1423.8 | 1375.8 | 1324.6 | 1279.7 | 1259.8 | 1254.2 |
| 22.5° | 1560.4 | 1537.9 | 1501.8 | 1457.5 | 1368.9 | 1288.5 | 1207.4 | 1153.8 | 1117.6 | 1111.4 |
| 25°   | 1609.7 | 1584.7 | 1543.5 | 1424.4 | 1281.6 | 1166.9 | 1074.6 | 1014.7 | 978.5  | 973.5  |
| 27.5° | 1695.7 | 1679.5 | 1566.0 | 1351.5 | 1165.6 | 1042.8 | 957.3  | 911.2  | 884.3  | 882.5  |
| 30°   | 1825.4 | 1817.3 | 1554.8 | 1243.6 | 1022.8 | 922.4  | 881.2  | 854.4  | 834.5  | 833.8  |
| 32.5° | 2032.5 | 1967.0 | 1518.0 | 1112.0 | 892.4  | 836.9  | 820.1  | 803.9  | 788.3  | 788.3  |
| 35°   | 2298.8 | 2088.0 | 1448.1 | 971.0  | 813.2  | 789.5  | 768.3  | 742.8  | 722.2  | 720.9  |
| 37.5° | 2611.9 | 2162.8 | 1322.8 | 857.5  | 775.8  | 757.7  | 726.6  | 688.5  | 652.3  | 646.1  |
| 40°   | 2928.1 | 2185.3 | 1146.3 | 787.7  | 752.1  | 725.9  | 687.9  | 643.0  | 608.1  | 606.2  |
| 42.5° | 3218.1 | 2142.3 | 959.2  | 739.7  | 728.4  | 693.5  | 653.6  | 613.7  | 586.2  | 585.6  |
| 45°   | 3461.3 | 2030.6 | 802.0  | 694.1  | 703.5  | 664.2  | 628.6  | 596.2  | 575.0  | 570.6  |
| 47.5° | 3690.2 | 1872.8 | 691.6  | 646.1  | 678.5  | 648.0  | 618.0  | 587.5  | 566.9  | 563.8  |
| 50°   | 3955.8 | 1702.6 | 614.3  | 599.3  | 656.7  | 642.4  | 626.8  | 595.0  | 560.7  | 556.9  |
| 52.5° | 4277.6 | 1555.4 | 553.8  | 558.2  | 639.9  | 649.8  | 649.2  | 616.2  | 556.3  | 551.3  |
| 55°   | 4636.9 | 1392.0 | 508.3  | 524.5  | 633.0  | 663.6  | 654.8  | 636.1  | 560.0  | 552.6  |
| 57.5° | 4990.5 | 1201.2 | 476.5  | 498.9  | 623.0  | 662.3  | 628.0  | 601.2  | 568.8  | 558.2  |
| 60°   | 5255.5 | 944.8  | 452.1  | 476.5  | 601.2  | 641.7  | 598.7  | 563.2  | 566.9  | 558.8  |
| 62.5° | 5273.0 | 730.3  | 422.8  | 457.1  | 568.1  | 621.2  | 579.4  | 546.3  | 575.0  | 567.5  |
| 65°   | 4963.0 | 551.9  | 394.8  | 434.1  | 532.6  | 608.1  | 560.7  | 537.0  | 591.8  | 583.7  |
| 67.5° | 4178.5 | 444.0  | 371.1  | 410.4  | 497.1  | 580.6  | 543.8  | 528.2  | 606.8  | 592.5  |
| 70°   | 3016.6 | 378.6  | 348.0  | 381.7  | 465.2  | 549.4  | 528.9  | 512.6  | 566.3  | 543.8  |
| 72.5° | 1857.2 | 328.0  | 321.8  | 343.6  | 440.9  | 517.0  | 506.4  | 483.3  | 510.1  | 492.1  |
| 75°   | 927.4  | 284.4  | 292.5  | 306.2  | 406.6  | 480.2  | 469.0  | 445.9  | 449.7  | 445.9  |
| 77.5° | 444.0  | 243.2  | 258.2  | 268.8  | 362.3  | 438.4  | 426.6  | 402.9  | 398.5  | 399.1  |
| 80°   | 281.3  | 203.3  | 217.7  | 225.1  | 323.7  | 389.8  | 377.9  | 354.2  | 404.1  | 374.8  |
| 82.5° | 175.9  | 165.3  | 169.0  | 182.7  | 281.9  | 339.3  | 323.7  | 302.5  | 364.2  | 288.1  |
| 85°   | 97.3   | 115.4  | 120.4  | 132.2  | 217.0  | 283.8  | 268.2  | 241.4  | 216.4  | 212.7  |
| 87.5° | 58.0   | 68.6   | 70.5   | 79.2   | 145.9  | 205.2  | 181.5  | 172.1  | 142.8  | 142.2  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)