

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: P191939

Luminaire Tested: **GAN-AF-01-LED-U-SL3-7050-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191939  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-SL3-7050-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5841 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-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

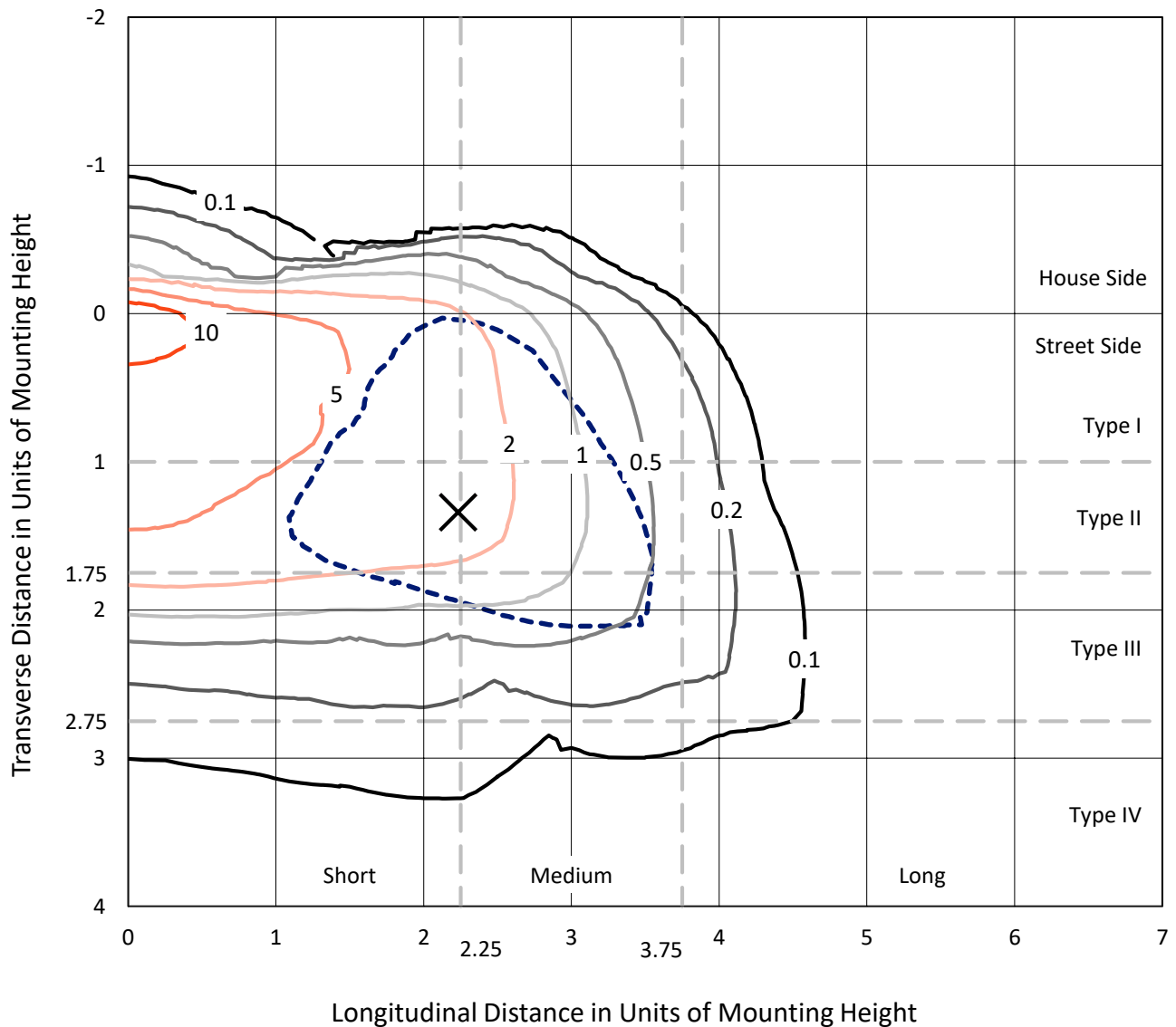


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

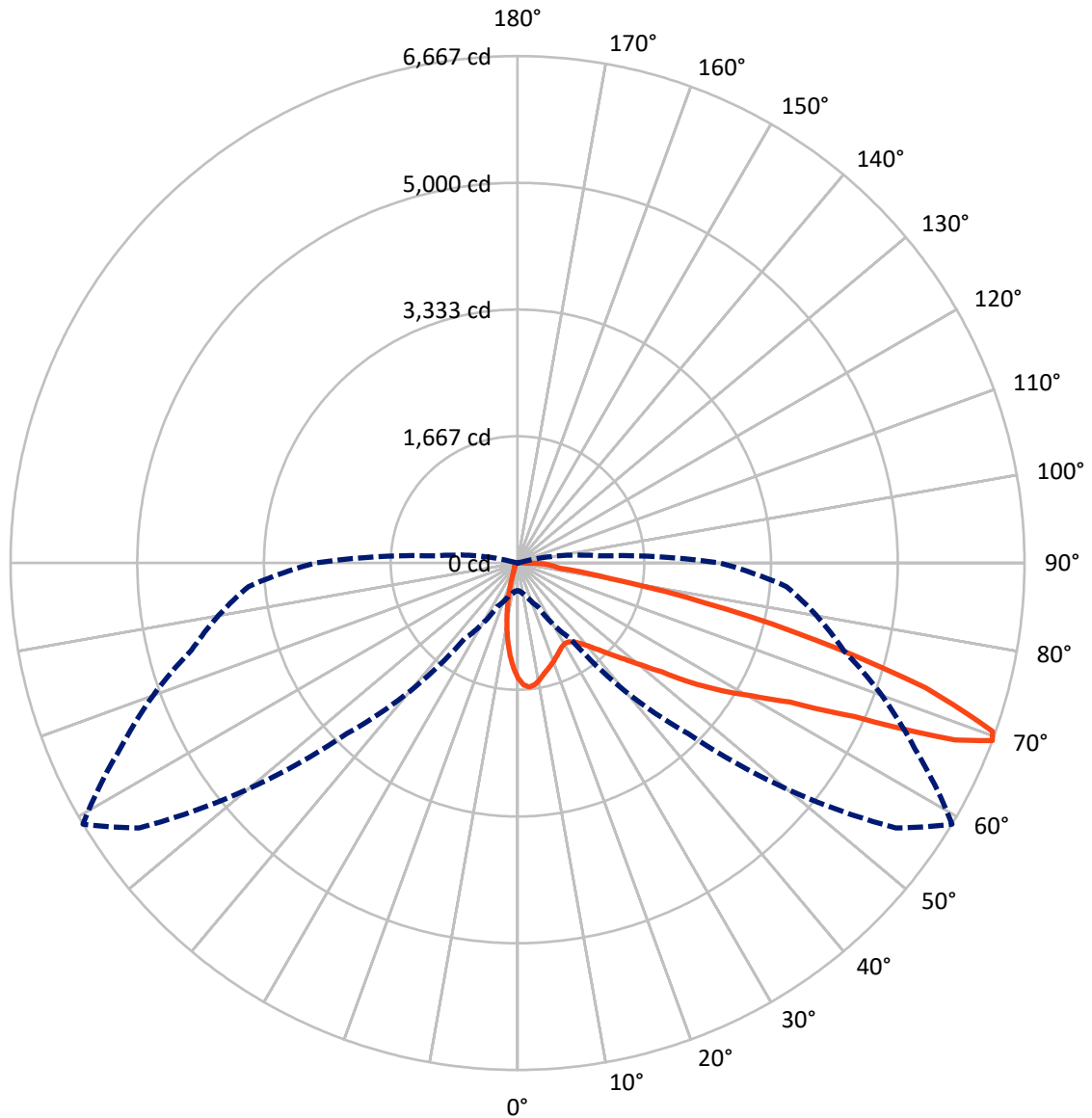


Based on 10 foot mounting height. Maximum calculated value = 15.3 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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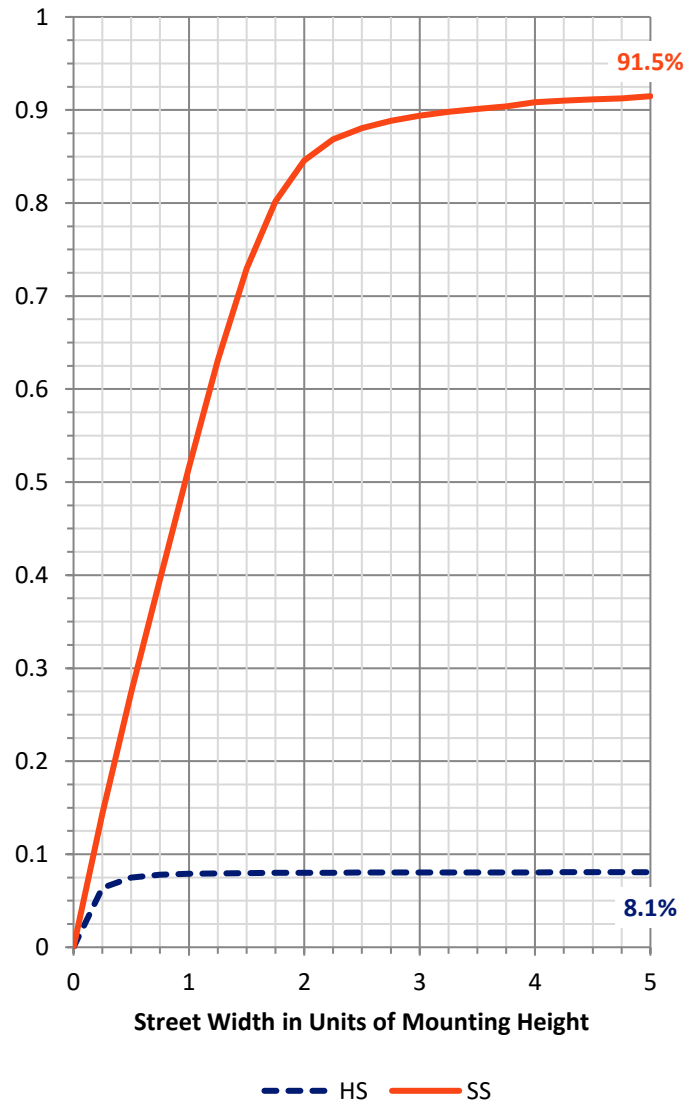
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 475.7    | 0.0    | 475.7  |
|                    | % Fixture | 8.1      | 0.0    | 8.1    |
| <b>Street Side</b> | Lumens    | 5365.3   | 0.0    | 5365.3 |
|                    | % Fixture | 91.9     | 0.0    | 91.9   |
| <b>Total</b>       | Lumens    | 5841.0   | 0.0    | 5841.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 123.4  | 2.1       |
| 10°-20°   | 255.0  | 4.4       |
| 20°-30°   | 343.1  | 5.9       |
| 30°-40°   | 498.2  | 8.5       |
| 40°-50°   | 829.5  | 14.2      |
| 50°-60°   | 1294.0 | 22.2      |
| 60°-70°   | 1601.3 | 27.4      |
| 70°-80°   | 811.5  | 13.9      |
| 80°-90°   | 84.9   | 1.5       |
| 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°    | 5841.0 | 100.0     |
| 0°-180°   | 5841.0 | 100.0     |



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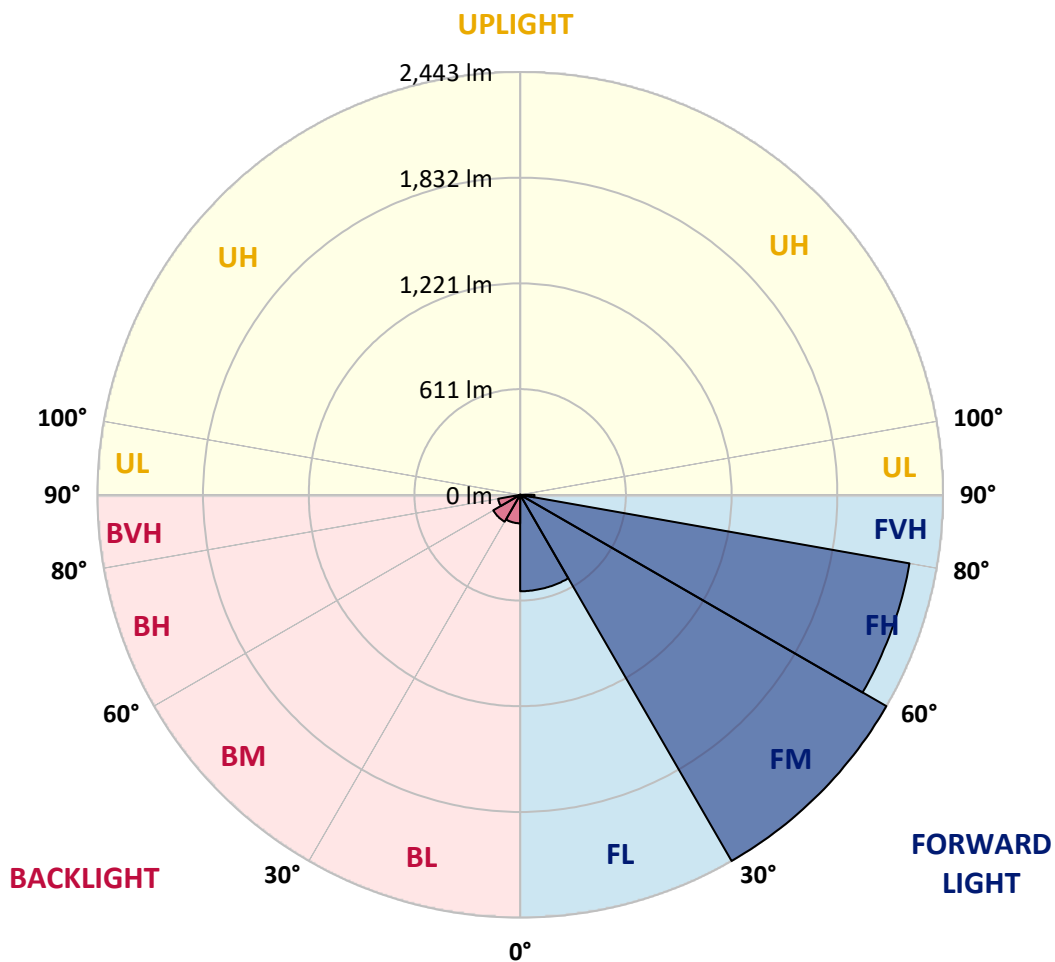
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 556.9  | 9.5       |                         |      |         |
| FM (30°-60°)   | 2442.5 | 41.8      |                         |      |         |
| FH (60°-80°)   | 2283.6 | 39.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 82.3   | 1.4       |                         |      | G1/100  |
| BL (0°-30°)    | 164.6  | 2.8       | B1/500                  |      |         |
| BM (30°-60°)   | 179.2  | 3.1       | B0/220                  |      |         |
| BH (60°-80°)   | 129.2  | 2.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.6    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 |
| 2.5°  | 1666.3 | 1665.7 | 1658.4 | 1655.1 | 1649.1 | 1636.6 | 1617.1 | 1606.9 | 1590.4 | 1561.6 | 1523.0 |
| 5°    | 1651.1 | 1659.1 | 1663.3 | 1663.7 | 1668.0 | 1663.3 | 1645.8 | 1637.3 | 1614.5 | 1568.2 | 1498.9 |
| 7.5°  | 1548.1 | 1551.0 | 1563.3 | 1573.8 | 1594.3 | 1613.8 | 1620.1 | 1616.4 | 1602.9 | 1553.4 | 1461.2 |
| 10°   | 1437.8 | 1440.7 | 1455.3 | 1469.1 | 1496.9 | 1526.9 | 1558.6 | 1565.3 | 1570.9 | 1532.2 | 1424.9 |
| 12.5° | 1342.6 | 1345.6 | 1360.5 | 1378.6 | 1411.0 | 1448.0 | 1497.2 | 1508.1 | 1532.9 | 1512.1 | 1395.8 |
| 15°   | 1260.7 | 1262.0 | 1276.6 | 1299.0 | 1337.7 | 1385.2 | 1441.1 | 1458.6 | 1496.6 | 1497.9 | 1370.4 |
| 17.5° | 1191.0 | 1194.3 | 1203.3 | 1224.7 | 1267.0 | 1325.8 | 1390.9 | 1416.0 | 1460.5 | 1486.0 | 1345.6 |
| 20°   | 1148.4 | 1151.7 | 1151.4 | 1163.3 | 1201.3 | 1264.0 | 1340.7 | 1370.7 | 1424.9 | 1473.8 | 1323.5 |
| 22.5° | 1140.2 | 1140.2 | 1131.6 | 1129.9 | 1152.4 | 1204.9 | 1288.5 | 1325.1 | 1392.8 | 1468.5 | 1308.0 |
| 25°   | 1169.6 | 1168.2 | 1146.8 | 1129.3 | 1130.3 | 1161.6 | 1237.9 | 1281.5 | 1365.8 | 1472.1 | 1299.7 |
| 27.5° | 1231.7 | 1230.0 | 1202.9 | 1169.6 | 1142.8 | 1142.5 | 1199.6 | 1246.5 | 1344.3 | 1489.3 | 1303.0 |
| 30°   | 1317.5 | 1316.9 | 1287.5 | 1245.5 | 1197.0 | 1152.4 | 1186.4 | 1229.0 | 1330.4 | 1520.3 | 1310.6 |
| 32.5° | 1411.3 | 1410.3 | 1388.2 | 1344.0 | 1282.5 | 1197.0 | 1200.3 | 1236.0 | 1334.4 | 1561.6 | 1329.1 |
| 35°   | 1510.8 | 1509.1 | 1499.5 | 1460.9 | 1393.2 | 1279.2 | 1245.9 | 1273.6 | 1359.5 | 1623.4 | 1365.4 |
| 37.5° | 1618.4 | 1620.1 | 1627.0 | 1590.0 | 1519.0 | 1394.5 | 1322.2 | 1341.0 | 1410.0 | 1707.3 | 1424.5 |
| 40°   | 1777.3 | 1777.0 | 1779.3 | 1730.7 | 1662.4 | 1535.5 | 1428.8 | 1434.8 | 1494.6 | 1818.6 | 1514.4 |
| 42.5° | 2065.6 | 2045.5 | 1984.4 | 1885.3 | 1816.6 | 1696.7 | 1563.3 | 1557.0 | 1598.0 | 1956.3 | 1640.2 |
| 45°   | 2453.1 | 2410.1 | 2251.6 | 2061.7 | 1973.8 | 1878.4 | 1728.7 | 1708.6 | 1734.7 | 2121.8 | 1795.5 |
| 47.5° | 2786.3 | 2741.7 | 2517.5 | 2245.3 | 2140.6 | 2050.8 | 1922.6 | 1886.3 | 1894.9 | 2307.1 | 1992.3 |
| 50°   | 2899.6 | 2877.8 | 2682.0 | 2405.2 | 2302.1 | 2267.8 | 2147.6 | 2103.3 | 2091.1 | 2521.4 | 2220.5 |
| 52.5° | 2860.3 | 2858.7 | 2728.2 | 2508.9 | 2450.1 | 2492.4 | 2430.6 | 2379.4 | 2334.5 | 2747.4 | 2452.7 |
| 55°   | 2797.2 | 2805.5 | 2747.0 | 2599.7 | 2597.7 | 2697.5 | 2817.7 | 2775.1 | 2645.0 | 2992.8 | 2652.9 |
| 57.5° | 2623.2 | 2658.5 | 2736.5 | 2771.5 | 2852.7 | 2954.8 | 3140.1 | 3165.2 | 3011.3 | 3180.7 | 2819.0 |
| 60°   | 2128.4 | 2206.0 | 2461.0 | 2796.2 | 3181.4 | 3435.7 | 3529.2 | 3550.6 | 3311.8 | 3336.9 | 3043.3 |
| 62.5° | 1510.8 | 1590.0 | 1913.4 | 2480.5 | 3186.3 | 4067.5 | 4108.8 | 4024.6 | 3642.8 | 3568.5 | 3430.1 |
| 65°   | 801.9  | 863.1  | 1127.3 | 1790.5 | 2762.6 | 4214.2 | 5122.5 | 4871.5 | 4226.7 | 4023.9 | 3929.8 |
| 67.5° | 410.2  | 428.7  | 533.8  | 876.3  | 1899.2 | 3743.2 | 6031.1 | 6207.8 | 5233.1 | 4475.8 | 3905.7 |
| 69°   | 363.0  | 373.9  | 443.6  | 633.5  | 1216.1 | 3170.5 | 6075.4 | 6666.6 | 5760.0 | 4438.1 | 3549.3 |
| 70°   | 351.4  | 361.0  | 424.4  | 573.4  | 950.6  | 2658.8 | 5905.9 | 6626.3 | 5894.7 | 4294.8 | 3283.1 |
| 72.5° | 298.3  | 306.5  | 377.9  | 506.7  | 772.6  | 1319.8 | 4797.5 | 5615.0 | 5289.6 | 3577.7 | 2376.4 |
| 75°   | 199.5  | 226.6  | 362.7  | 475.0  | 718.7  | 749.8  | 3162.9 | 4057.6 | 3769.3 | 2413.1 | 1237.9 |
| 77.5° | 47.9   | 51.5   | 102.4  | 377.9  | 657.3  | 659.9  | 1626.7 | 2522.4 | 2057.4 | 860.1  | 292.6  |
| 80°   | 25.8   | 24.8   | 28.7   | 75.0   | 612.0  | 619.3  | 732.3  | 1224.4 | 734.6  | 142.7  | 96.4   |
| 82.5° | 18.2   | 17.2   | 18.5   | 31.4   | 192.6  | 564.1  | 529.8  | 554.2  | 304.5  | 54.8   | 43.3   |
| 85°   | 6.6    | 6.3    | 10.2   | 28.4   | 60.4   | 324.3  | 544.3  | 457.1  | 246.7  | 25.1   | 31.7   |
| 87.5° | 2.3    | 2.0    | 4.0    | 15.5   | 18.5   | 138.1  | 335.9  | 345.5  | 97.1   | 15.2   | 14.9   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 |
| 2.5°  | 1506.8 | 1486.3 | 1448.7 | 1410.0 | 1374.3 | 1331.4 | 1309.9 | 1288.8 | 1279.9 | 1276.6 | 1261.1 |
| 5°    | 1463.2 | 1428.5 | 1348.6 | 1268.3 | 1194.3 | 1115.7 | 1063.9 | 1022.3 | 997.8  | 985.9  | 967.1  |
| 7.5°  | 1407.4 | 1350.6 | 1229.3 | 1105.5 | 990.2  | 876.6  | 792.4  | 727.6  | 683.0  | 661.6  | 642.1  |
| 10°   | 1353.2 | 1277.6 | 1105.2 | 936.4  | 779.8  | 629.2  | 512.9  | 428.7  | 374.9  | 350.1  | 334.3  |
| 12.5° | 1304.7 | 1206.6 | 985.3  | 771.6  | 575.0  | 398.7  | 280.4  | 213.4  | 180.0  | 168.4  | 162.8  |
| 15°   | 1261.4 | 1141.2 | 872.0  | 615.0  | 389.4  | 227.9  | 153.3  | 130.5  | 125.2  | 125.2  | 124.5  |
| 17.5° | 1220.4 | 1077.1 | 762.6  | 468.0  | 244.4  | 139.4  | 116.6  | 113.6  | 113.6  | 114.9  | 114.9  |
| 20°   | 1181.1 | 1016.0 | 656.9  | 335.9  | 153.9  | 110.6  | 105.4  | 104.7  | 105.4  | 107.0  | 107.0  |
| 22.5° | 1147.4 | 960.5  | 558.2  | 230.5  | 114.3  | 99.7   | 97.1   | 96.1   | 96.4   | 97.4   | 98.1   |
| 25°   | 1122.3 | 913.6  | 465.1  | 156.2  | 98.4   | 90.8   | 87.9   | 86.2   | 84.9   | 84.9   | 85.5   |
| 27.5° | 1106.5 | 874.0  | 374.9  | 113.6  | 88.5   | 82.6   | 77.9   | 75.3   | 72.3   | 70.7   | 71.3   |
| 30°   | 1094.9 | 836.3  | 290.3  | 92.8   | 79.3   | 73.3   | 67.4   | 63.1   | 58.8   | 56.8   | 57.5   |
| 32.5° | 1090.6 | 805.9  | 217.0  | 81.9   | 71.0   | 64.4   | 57.1   | 51.5   | 46.9   | 45.2   | 45.6   |
| 35°   | 1102.2 | 781.8  | 158.9  | 74.0   | 64.4   | 56.1   | 47.9   | 41.6   | 38.0   | 37.0   | 37.3   |
| 37.5° | 1132.6 | 768.9  | 118.9  | 67.4   | 58.5   | 49.2   | 40.0   | 34.0   | 31.7   | 31.7   | 32.0   |
| 40°   | 1190.0 | 768.6  | 95.5   | 62.8   | 53.2   | 42.6   | 33.0   | 28.7   | 27.4   | 28.1   | 28.4   |
| 42.5° | 1273.9 | 786.1  | 83.2   | 58.5   | 48.6   | 36.3   | 27.4   | 24.4   | 24.1   | 24.8   | 25.1   |
| 45°   | 1388.5 | 818.1  | 76.6   | 54.8   | 43.6   | 30.4   | 23.1   | 21.1   | 21.1   | 22.1   | 22.5   |
| 47.5° | 1528.9 | 865.0  | 71.0   | 51.2   | 38.6   | 25.4   | 19.8   | 18.5   | 18.8   | 19.8   | 20.1   |
| 50°   | 1698.0 | 924.2  | 65.4   | 47.2   | 35.0   | 21.1   | 17.2   | 16.2   | 16.5   | 17.8   | 18.2   |
| 52.5° | 1890.6 | 1003.8 | 60.8   | 43.6   | 30.4   | 17.5   | 14.5   | 13.9   | 14.5   | 15.9   | 16.2   |
| 55°   | 2055.7 | 1075.1 | 55.2   | 40.6   | 24.4   | 14.5   | 11.9   | 11.9   | 12.6   | 14.2   | 14.5   |
| 57.5° | 2214.6 | 1149.7 | 50.2   | 35.0   | 19.2   | 11.6   | 9.9    | 10.2   | 11.2   | 12.9   | 13.2   |
| 60°   | 2447.8 | 1276.2 | 44.3   | 29.4   | 14.5   | 9.2    | 8.3    | 8.6    | 9.9    | 11.6   | 11.9   |
| 62.5° | 2843.8 | 1468.8 | 38.3   | 24.4   | 11.2   | 7.3    | 6.6    | 7.3    | 8.9    | 10.9   | 11.2   |
| 65°   | 3201.2 | 1547.1 | 31.4   | 20.5   | 8.6    | 5.6    | 5.6    | 6.6    | 8.6    | 10.6   | 10.9   |
| 67.5° | 3002.0 | 1302.3 | 24.4   | 16.2   | 6.6    | 4.3    | 4.6    | 6.3    | 8.3    | 10.6   | 10.9   |
| 69°   | 2654.9 | 1064.9 | 20.8   | 12.9   | 5.6    | 4.0    | 4.3    | 6.3    | 8.3    | 10.2   | 10.6   |
| 70°   | 2384.4 | 899.1  | 18.5   | 10.9   | 5.0    | 4.0    | 4.3    | 5.9    | 8.3    | 10.2   | 10.6   |
| 72.5° | 1597.0 | 485.5  | 14.9   | 7.9    | 4.6    | 3.6    | 3.6    | 5.9    | 7.9    | 9.9    | 10.2   |
| 75°   | 686.3  | 134.1  | 11.9   | 5.6    | 4.0    | 3.3    | 3.3    | 5.6    | 7.6    | 9.6    | 10.2   |
| 77.5° | 125.5  | 34.0   | 9.6    | 5.0    | 4.0    | 3.3    | 3.0    | 5.3    | 7.3    | 9.2    | 9.6    |
| 80°   | 49.9   | 16.8   | 7.6    | 4.3    | 3.6    | 3.0    | 2.6    | 5.0    | 6.9    | 8.9    | 9.2    |
| 82.5° | 30.1   | 9.6    | 6.3    | 4.0    | 3.6    | 2.6    | 2.3    | 4.3    | 6.6    | 8.6    | 8.9    |
| 85°   | 24.4   | 6.6    | 5.0    | 4.0    | 3.3    | 2.6    | 2.0    | 4.0    | 5.9    | 8.3    | 8.6    |
| 87.5° | 11.9   | 4.6    | 4.6    | 3.6    | 3.3    | 2.6    | 2.0    | 3.6    | 5.6    | 7.9    | 8.3    |
| 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)