

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: P322167

Luminaire Tested: **GAN-SA3C-727-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322167  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3C-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13159 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 166  
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: 24 FT

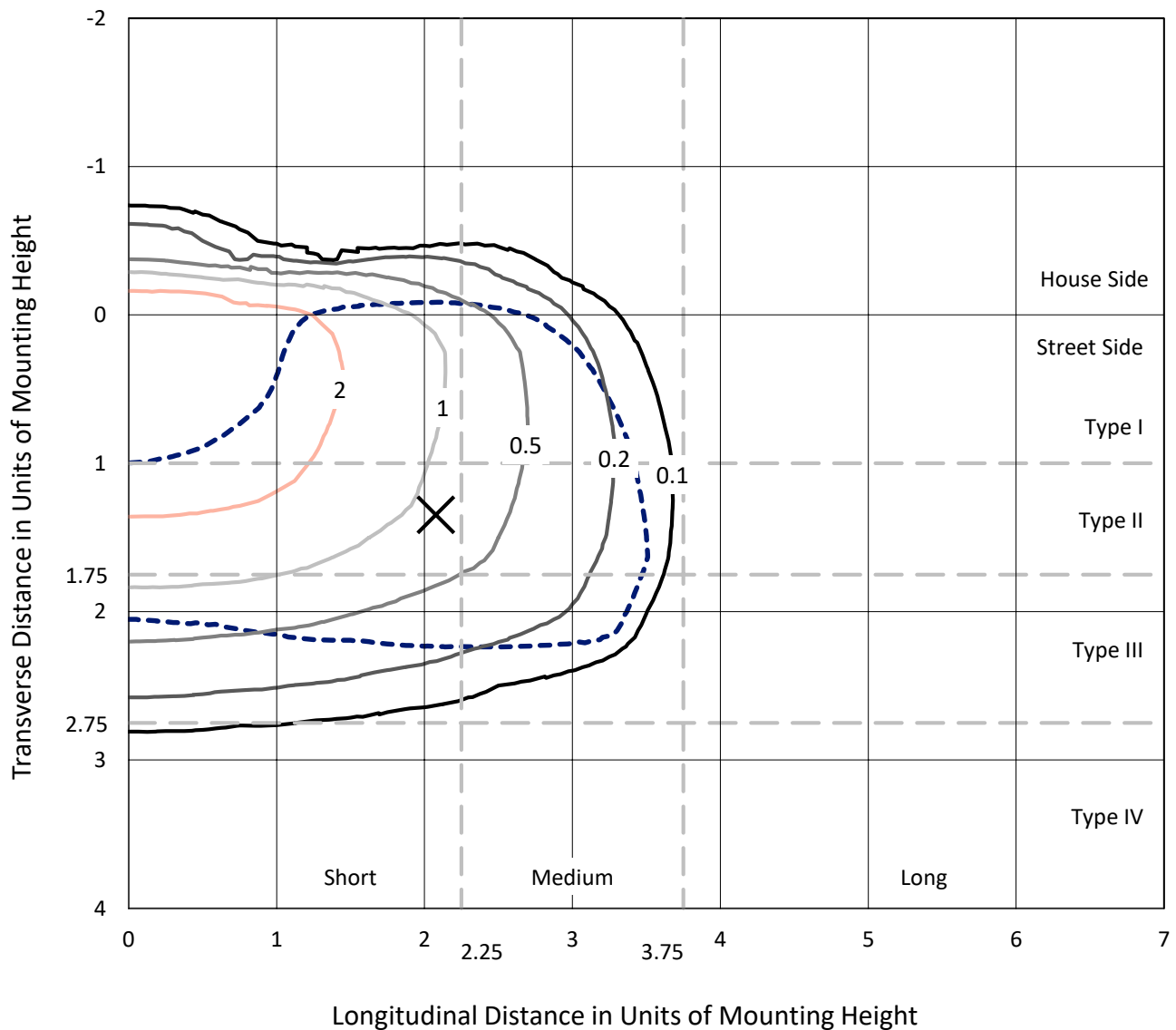


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## Iso-Footcandle Lines of Horizontal Illumination

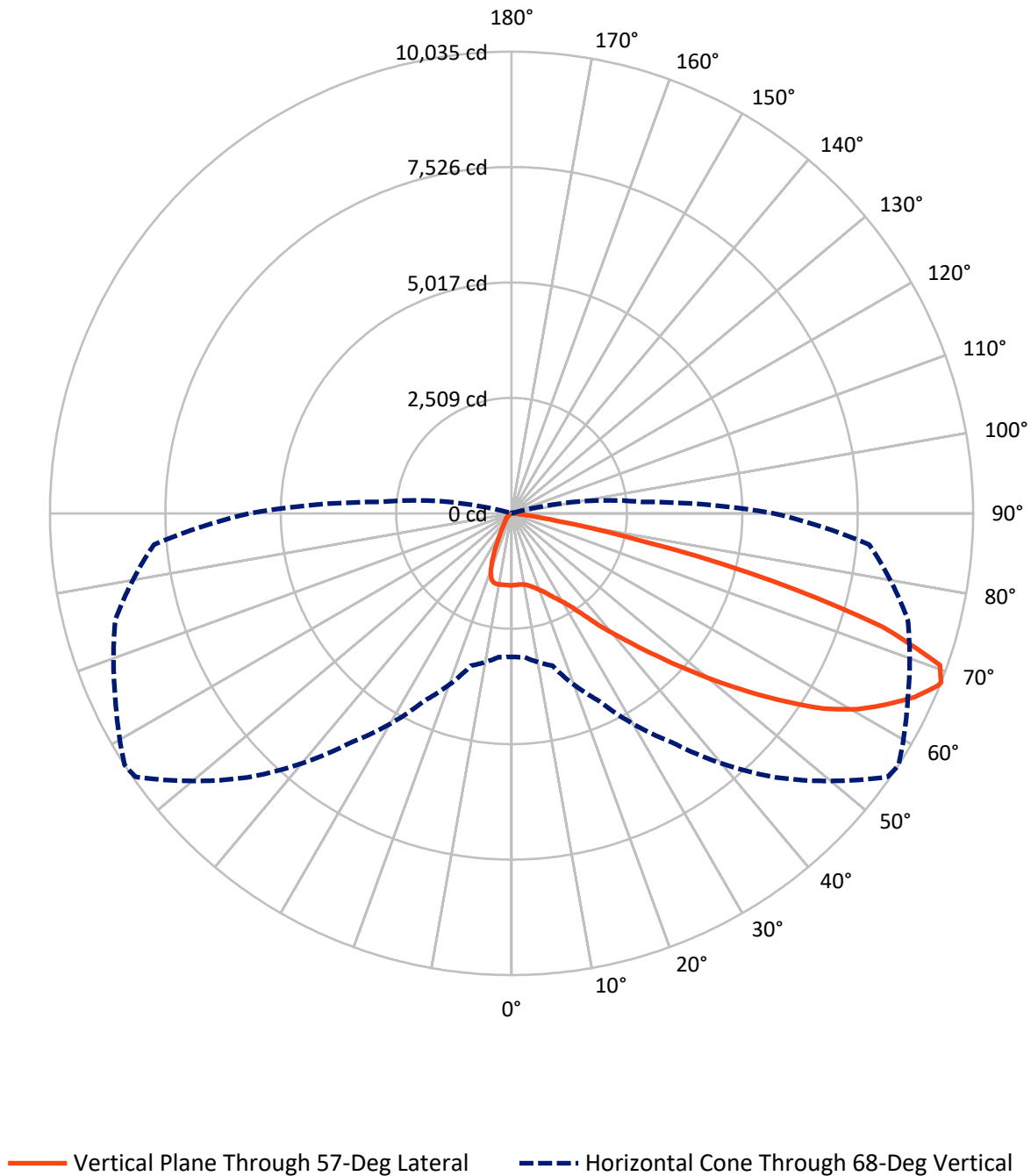
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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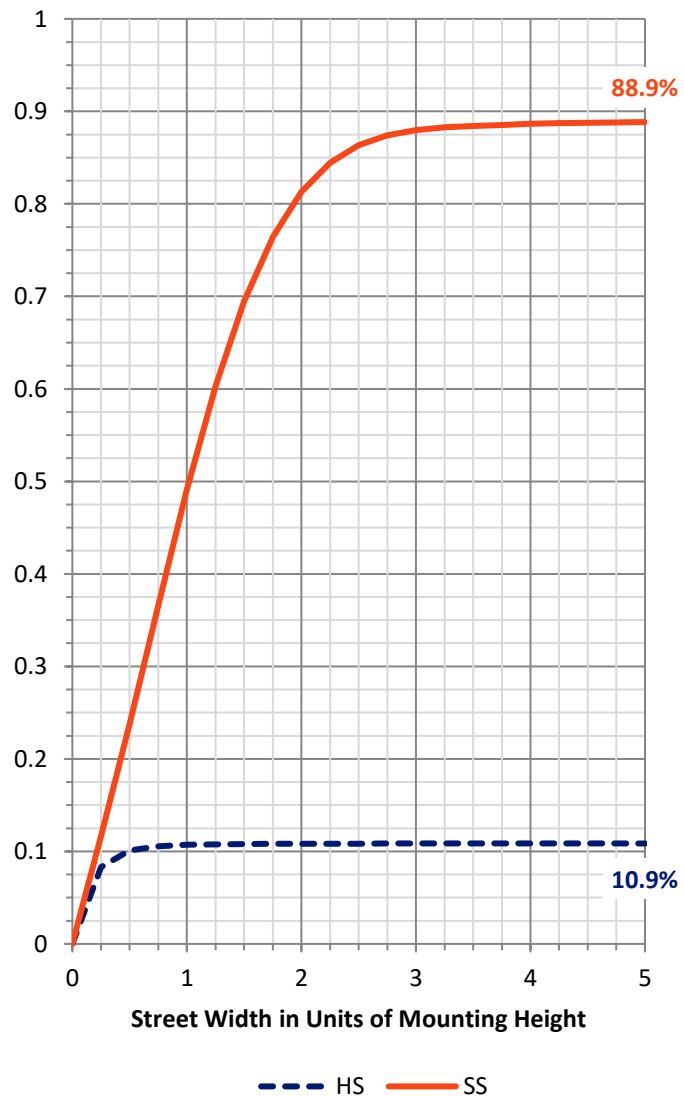
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1443.0   | 0.0    | 1443.0  |
|                    | % Fixture | 11.0     | 0.0    | 11.0    |
| <b>Street Side</b> | Lumens    | 11716.0  | 0.0    | 11716.0 |
|                    | % Fixture | 89.0     | 0.0    | 89.0    |
| <b>Total</b>       | Lumens    | 13159.0  | 0.0    | 13159.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 146.3   | 1.1       |
| 10°-20°   | 405.5   | 3.1       |
| 20°-30°   | 699.5   | 5.3       |
| 30°-40°   | 1207.3  | 9.2       |
| 40°-50°   | 2065.2  | 15.7      |
| 50°-60°   | 3304.1  | 25.1      |
| 60°-70°   | 3817.5  | 29.0      |
| 70°-80°   | 1458.7  | 11.1      |
| 80°-90°   | 54.7    | 0.4       |
| 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°    | 13159.0 | 100.0     |
| 0°-180°   | 13159.0 | 100.0     |

**Coefficient of Utilization**



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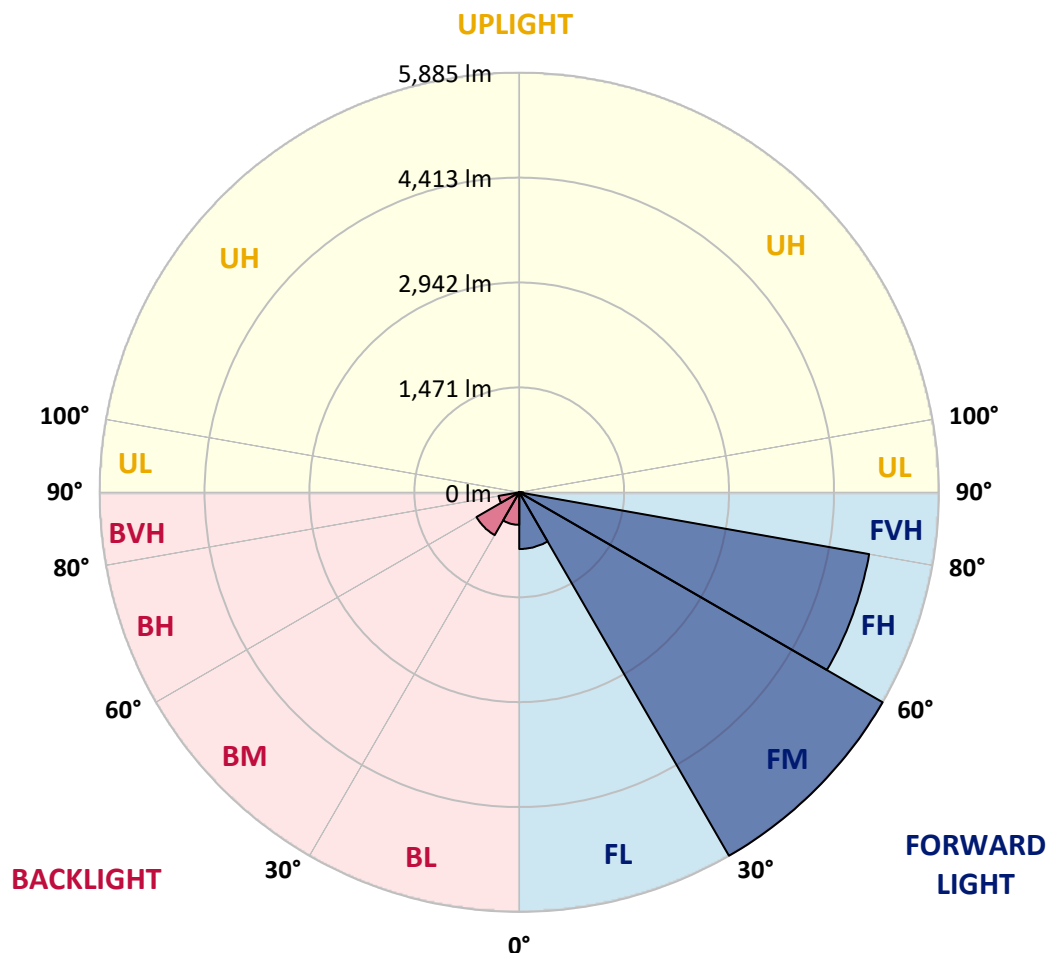
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 795.3  | 6.0       |                         |      |         |
| FM   | (30°-60°)   | 5884.6 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 4982.4 | 37.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 53.7   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 456.0  | 3.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 692.1  | 5.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 293.9  | 2.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.0    | 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°    | 57°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| 0°    | 1563.6 | 1563.6 | 1563.6 | 1563.6 | 1563.6 | 1563.6 | 1563.6 | 1563.6  | 1563.6 | 1563.6 | 1563.6 |
| 2.5°  | 1526.9 | 1533.8 | 1538.7 | 1541.9 | 1545.6 | 1553.7 | 1556.2 | 1559.9  | 1561.8 | 1561.8 | 1566.1 |
| 5°    | 1466.6 | 1474.0 | 1484.6 | 1493.3 | 1510.7 | 1533.1 | 1549.3 | 1555.5  | 1566.7 | 1576.7 | 1582.3 |
| 7.5°  | 1410.6 | 1419.3 | 1431.7 | 1452.3 | 1482.1 | 1518.2 | 1551.8 | 1560.5  | 1582.3 | 1603.5 | 1614.0 |
| 10°   | 1374.5 | 1381.3 | 1397.5 | 1426.7 | 1465.9 | 1516.3 | 1563.6 | 1574.2  | 1611.5 | 1647.0 | 1666.9 |
| 12.5° | 1362.0 | 1368.3 | 1385.1 | 1418.0 | 1466.6 | 1525.7 | 1591.0 | 1606.6  | 1661.3 | 1713.0 | 1741.0 |
| 15°   | 1380.1 | 1381.3 | 1399.4 | 1430.5 | 1478.4 | 1548.7 | 1636.4 | 1655.1  | 1724.2 | 1791.4 | 1826.2 |
| 17.5° | 1449.8 | 1444.2 | 1453.5 | 1467.2 | 1505.1 | 1579.2 | 1684.3 | 1712.3  | 1804.4 | 1883.5 | 1916.4 |
| 20°   | 1624.0 | 1624.0 | 1602.8 | 1565.5 | 1566.1 | 1626.5 | 1749.1 | 1780.8  | 1893.4 | 1984.9 | 2014.7 |
| 22.5° | 1922.0 | 1916.4 | 1874.1 | 1782.7 | 1698.7 | 1708.0 | 1828.1 | 1869.1  | 2000.4 | 2098.1 | 2108.1 |
| 25°   | 2280.4 | 2273.6 | 2208.3 | 2079.5 | 1933.9 | 1839.9 | 1935.1 | 1982.4  | 2128.0 | 2214.5 | 2193.9 |
| 27.5° | 2660.0 | 2654.4 | 2589.7 | 2429.8 | 2222.6 | 2050.2 | 2062.7 | 2107.5  | 2258.0 | 2343.3 | 2277.9 |
| 30°   | 3027.7 | 3029.6 | 2965.5 | 2801.2 | 2566.7 | 2318.4 | 2224.4 | 2250.6  | 2384.3 | 2470.8 | 2377.5 |
| 32.5° | 3377.4 | 3379.9 | 3324.5 | 3141.0 | 2921.9 | 2630.1 | 2448.4 | 2441.6  | 2531.2 | 2616.4 | 2509.4 |
| 35°   | 3689.1 | 3695.4 | 3657.4 | 3514.9 | 3282.8 | 2977.3 | 2739.0 | 2722.8  | 2739.6 | 2836.1 | 2711.6 |
| 37.5° | 3989.7 | 3993.4 | 3964.8 | 3844.7 | 3650.6 | 3358.7 | 3106.1 | 3083.1  | 3047.0 | 3121.1 | 2978.6 |
| 40°   | 4318.8 | 4309.5 | 4276.5 | 4167.6 | 4000.9 | 3780.0 | 3500.6 | 3460.8  | 3397.9 | 3463.9 | 3329.5 |
| 42.5° | 4625.0 | 4614.4 | 4620.0 | 4496.8 | 4356.2 | 4213.0 | 3960.4 | 3892.0  | 3855.3 | 3931.2 | 3760.1 |
| 45°   | 5007.6 | 5002.0 | 5020.7 | 4913.7 | 4799.8 | 4695.9 | 4487.4 | 4412.8  | 4396.6 | 4485.6 | 4280.9 |
| 47.5° | 5385.3 | 5399.0 | 5456.9 | 5411.4 | 5365.4 | 5273.9 | 5045.6 | 5012.0  | 5021.9 | 5129.6 | 4830.3 |
| 50°   | 5700.1 | 5716.3 | 5875.0 | 5927.3 | 5993.8 | 5940.3 | 5711.3 | 5690.8  | 5730.0 | 5827.1 | 5421.4 |
| 52.5° | 5927.9 | 5960.9 | 6158.1 | 6398.9 | 6641.6 | 6677.7 | 6449.3 | 6430.6  | 6483.5 | 6498.5 | 5878.1 |
| 55°   | 6085.9 | 6115.2 | 6338.5 | 6779.1 | 7273.1 | 7428.7 | 7286.8 | 7214.6  | 7204.7 | 7057.2 | 6358.5 |
| 57.5° | 6113.9 | 6110.8 | 6431.9 | 7024.9 | 7768.4 | 8169.7 | 8080.1 | 8009.2  | 7805.1 | 7573.6 | 6909.1 |
| 60°   | 5955.9 | 5973.9 | 6346.6 | 7110.1 | 8079.5 | 8730.4 | 8737.2 | 8645.1  | 8327.2 | 8075.8 | 7443.0 |
| 62.5° | 5469.3 | 5542.7 | 5919.2 | 6886.7 | 8075.8 | 8956.2 | 9218.8 | 9148.5  | 8768.3 | 8487.1 | 7984.3 |
| 65°   | 4680.3 | 4706.5 | 5065.5 | 6121.4 | 7530.1 | 8861.6 | 9652.5 | 9626.3  | 9165.9 | 8886.5 | 8262.4 |
| 67.5° | 3417.8 | 3361.2 | 3738.3 | 4820.3 | 6375.3 | 8310.4 | 9963.6 | 9996.6  | 9472.7 | 8968.7 | 7966.3 |
| 68°   | 3119.2 | 3136.0 | 3429.7 | 4498.6 | 6072.9 | 8115.6 | 9984.1 | 10034.5 | 9503.1 | 8915.2 | 7804.5 |
| 70°   | 1859.2 | 1891.5 | 2153.5 | 3097.4 | 4620.0 | 7013.7 | 9762.6 | 9877.7  | 9321.5 | 8363.2 | 6750.5 |
| 72.5° | 474.8  | 513.3  | 761.0  | 1386.3 | 2638.8 | 4941.7 | 8241.3 | 8436.0  | 8093.2 | 6784.7 | 4557.1 |
| 75°   | 195.4  | 205.3  | 271.9  | 456.7  | 983.1  | 2226.3 | 5432.0 | 5848.9  | 5610.5 | 4061.8 | 2059.5 |
| 77.5° | 135.0  | 141.9  | 174.8  | 253.2  | 425.6  | 754.8  | 2663.1 | 2964.3  | 2670.6 | 1386.3 | 449.2  |
| 80°   | 97.1   | 102.7  | 125.1  | 168.6  | 244.5  | 269.4  | 868.0  | 1003.6  | 797.1  | 304.3  | 111.4  |
| 82.5° | 57.9   | 62.2   | 93.3   | 120.1  | 148.7  | 128.8  | 215.9  | 245.2   | 230.8  | 151.2  | 49.8   |
| 85°   | 28.6   | 33.6   | 62.8   | 85.9   | 80.3   | 54.1   | 66.0   | 73.4    | 90.8   | 92.1   | 26.8   |
| 87.5° | 1.9    | 3.7    | 36.7   | 51.6   | 22.4   | 12.4   | 19.3   | 23.6    | 32.4   | 45.4   | 11.2   |
| 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°    | 1563.6 | 1563.6 | 1563.6 | 1563.6 | 1563.6 | 1563.6 | 1563.6 | 1563.6 | 1563.6 | 1563.6 | 1563.6 |
| 2.5°  | 1568.0 | 1568.6 | 1564.3 | 1562.4 | 1563.6 | 1556.2 | 1553.1 | 1554.3 | 1554.3 | 1556.2 | 1553.1 |
| 5°    | 1583.5 | 1583.5 | 1576.1 | 1566.1 | 1560.5 | 1546.2 | 1536.9 | 1534.4 | 1532.5 | 1531.3 | 1528.8 |
| 7.5°  | 1617.1 | 1613.4 | 1600.3 | 1578.6 | 1559.9 | 1528.8 | 1505.1 | 1492.7 | 1486.5 | 1484.0 | 1482.1 |
| 10°   | 1671.3 | 1664.4 | 1642.7 | 1602.2 | 1559.3 | 1503.9 | 1452.3 | 1415.5 | 1385.1 | 1372.6 | 1365.1 |
| 12.5° | 1744.1 | 1734.1 | 1697.4 | 1630.2 | 1554.9 | 1452.9 | 1340.9 | 1233.2 | 1133.1 | 1092.0 | 1071.5 |
| 15°   | 1828.1 | 1813.8 | 1755.9 | 1653.9 | 1529.4 | 1337.8 | 1094.5 | 906.0  | 767.2  | 714.9  | 692.5  |
| 17.5° | 1913.3 | 1894.7 | 1806.9 | 1668.8 | 1452.9 | 1099.5 | 767.8  | 579.9  | 487.2  | 462.3  | 453.6  |
| 20°   | 1999.2 | 1971.8 | 1851.1 | 1657.6 | 1279.9 | 792.7  | 506.5  | 423.7  | 397.0  | 389.5  | 387.0  |
| 22.5° | 2080.7 | 2038.4 | 1890.9 | 1614.0 | 1013.6 | 532.0  | 400.7  | 374.6  | 365.9  | 361.5  | 360.3  |
| 25°   | 2151.6 | 2092.5 | 1925.8 | 1479.6 | 717.4  | 402.0  | 360.9  | 352.2  | 341.0  | 332.9  | 333.5  |
| 27.5° | 2218.2 | 2146.7 | 1946.9 | 1258.1 | 478.5  | 343.5  | 334.1  | 322.3  | 301.8  | 290.0  | 290.0  |
| 30°   | 2298.5 | 2218.8 | 1962.5 | 968.2  | 352.2  | 303.6  | 296.2  | 278.1  | 250.1  | 234.6  | 234.6  |
| 32.5° | 2419.2 | 2328.3 | 1952.5 | 679.5  | 291.8  | 266.9  | 249.5  | 224.6  | 194.1  | 179.2  | 178.6  |
| 35°   | 2604.0 | 2497.6 | 1881.6 | 445.5  | 257.6  | 232.1  | 204.1  | 173.6  | 146.8  | 134.4  | 133.8  |
| 37.5° | 2852.9 | 2724.1 | 1722.3 | 318.6  | 230.8  | 199.7  | 166.1  | 132.5  | 112.6  | 104.5  | 103.9  |
| 40°   | 3175.8 | 2987.3 | 1494.6 | 258.2  | 206.0  | 168.6  | 128.2  | 102.7  | 89.0   | 82.8   | 83.4   |
| 42.5° | 3563.4 | 3269.1 | 1221.4 | 222.8  | 181.7  | 138.8  | 100.2  | 80.9   | 72.2   | 67.8   | 66.6   |
| 45°   | 3994.0 | 3547.3 | 935.2  | 198.5  | 157.4  | 112.0  | 78.4   | 64.1   | 57.2   | 54.8   | 54.8   |
| 47.5° | 4467.5 | 3817.9 | 684.4  | 177.3  | 131.3  | 86.5   | 62.8   | 52.3   | 46.7   | 44.8   | 44.2   |
| 50°   | 4897.5 | 4005.8 | 493.4  | 154.9  | 107.6  | 68.4   | 51.0   | 43.6   | 39.8   | 37.3   | 37.3   |
| 52.5° | 5255.9 | 4065.0 | 363.4  | 130.7  | 87.1   | 54.8   | 42.3   | 37.3   | 33.6   | 31.7   | 31.7   |
| 55°   | 5571.3 | 4040.7 | 270.0  | 107.6  | 70.3   | 44.8   | 36.1   | 31.7   | 28.6   | 26.8   | 26.8   |
| 57.5° | 5873.7 | 3962.3 | 201.6  | 87.7   | 56.6   | 36.1   | 30.5   | 26.8   | 23.6   | 22.4   | 22.4   |
| 60°   | 6120.8 | 3831.6 | 150.0  | 70.9   | 45.4   | 29.2   | 25.5   | 21.8   | 19.3   | 17.4   | 17.4   |
| 62.5° | 6321.1 | 3687.3 | 110.1  | 58.5   | 36.1   | 23.0   | 19.9   | 18.0   | 14.3   | 12.4   | 12.4   |
| 65°   | 6322.4 | 3447.7 | 82.8   | 48.5   | 28.0   | 18.0   | 14.9   | 14.3   | 9.3    | 7.5    | 6.8    |
| 67.5° | 5865.0 | 2972.3 | 63.5   | 41.7   | 21.8   | 13.7   | 11.2   | 11.8   | 5.0    | 3.1    | 2.5    |
| 68°   | 5698.9 | 2851.6 | 59.7   | 41.1   | 20.5   | 13.1   | 10.6   | 11.8   | 4.4    | 2.5    | 1.9    |
| 70°   | 4804.8 | 2268.6 | 47.9   | 39.8   | 18.0   | 10.0   | 8.7    | 11.8   | 3.7    | 1.9    | 1.2    |
| 72.5° | 3073.1 | 1316.6 | 35.5   | 31.7   | 13.7   | 7.5    | 5.6    | 10.6   | 3.7    | 1.2    | 0.6    |
| 75°   | 1307.9 | 408.2  | 24.3   | 22.4   | 8.1    | 5.6    | 3.7    | 6.8    | 2.5    | 0.6    | 0.0    |
| 77.5° | 275.6  | 92.1   | 14.3   | 13.7   | 5.6    | 3.7    | 2.5    | 1.9    | 0.6    | 0.0    | 0.0    |
| 80°   | 70.9   | 26.8   | 7.5    | 6.8    | 3.1    | 1.9    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 22.4   | 10.6   | 4.4    | 3.1    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 11.2   | 6.2    | 2.5    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 6.2    | 1.9    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)