

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: P318176

Luminaire Tested: **GAN-SA2D-760-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2D-760-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15579 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

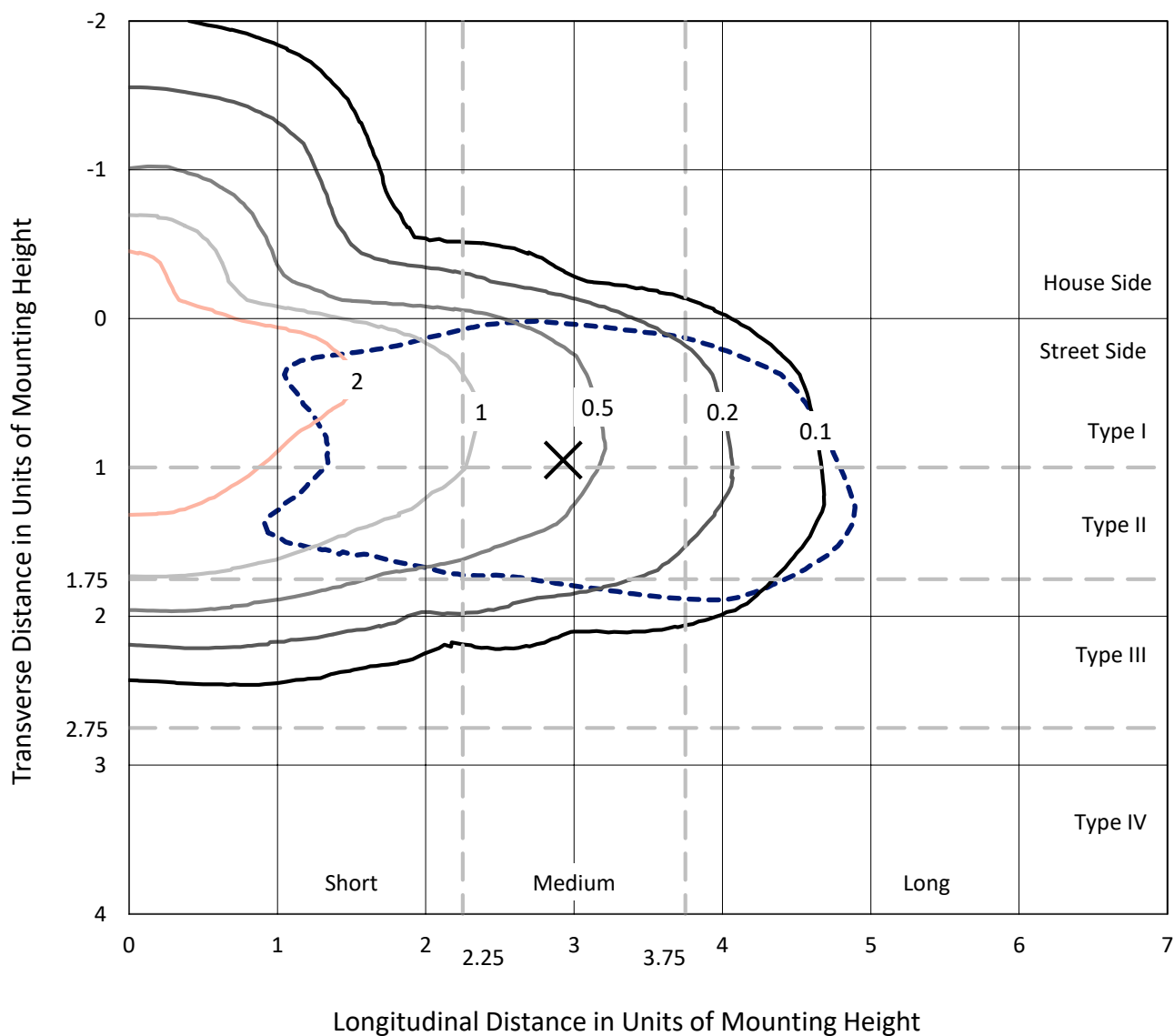
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

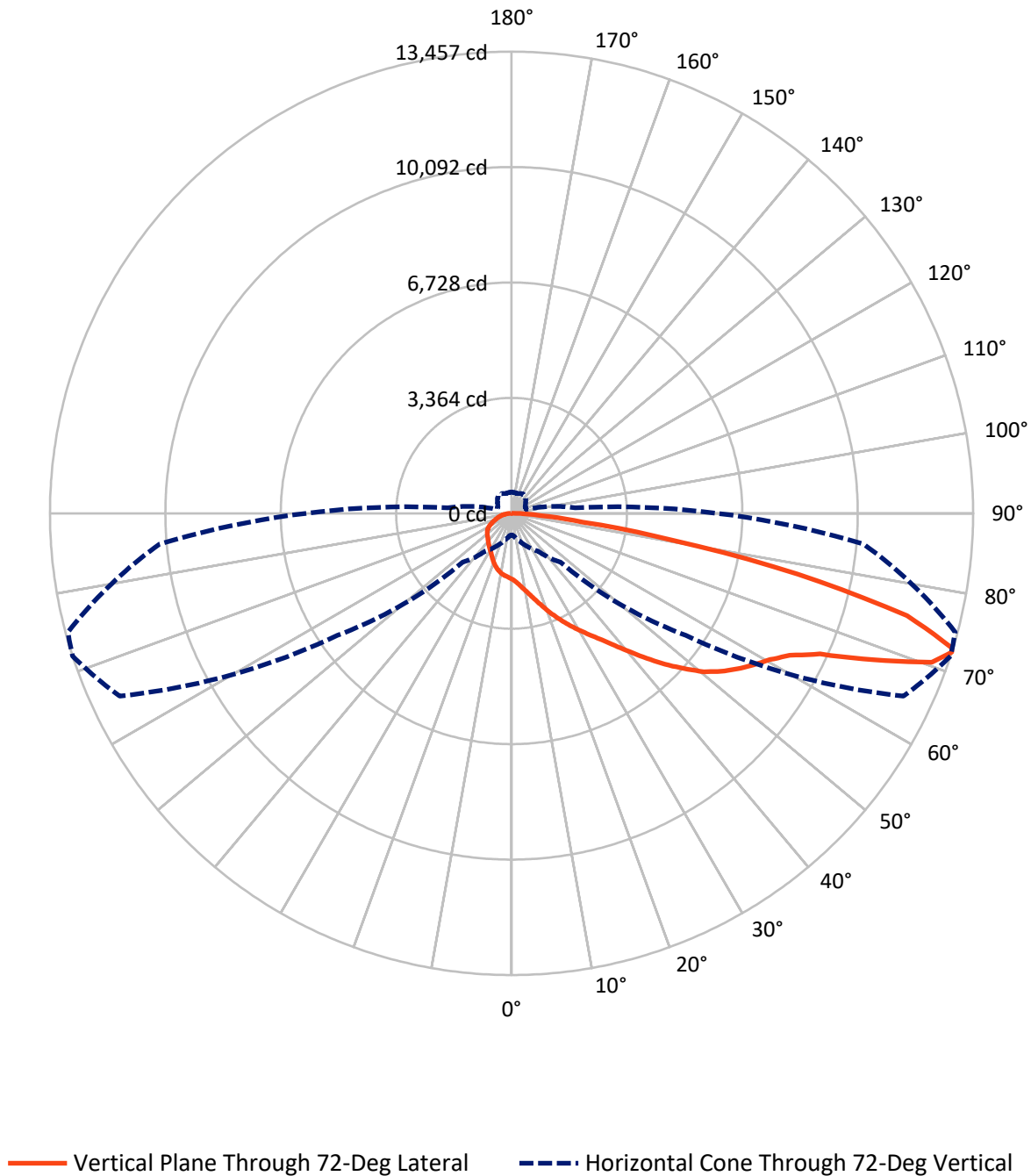
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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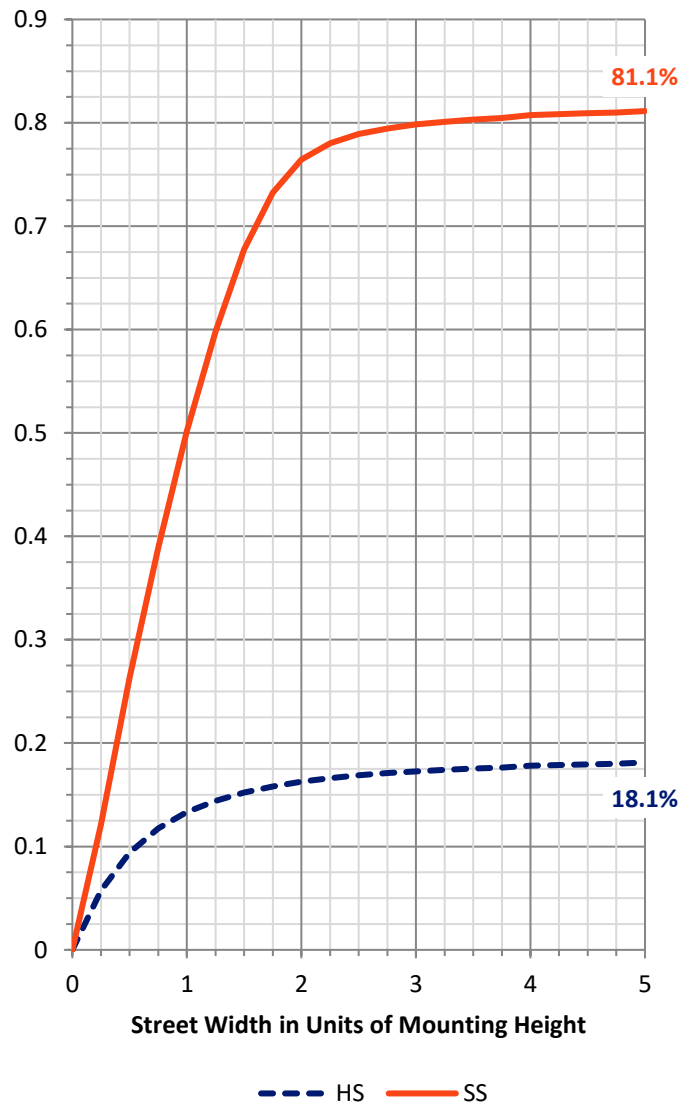
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2890.0   | 0.0    | 2890.0  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 12689.0  | 0.0    | 12689.0 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 15579.0  | 0.0    | 15579.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 192.0   | 1.2       |
| 10°-20°   | 620.6   | 4.0       |
| 20°-30°   | 1087.5  | 7.0       |
| 30°-40°   | 1612.4  | 10.4      |
| 40°-50°   | 2358.3  | 15.1      |
| 50°-60°   | 3245.0  | 20.8      |
| 60°-70°   | 3612.7  | 23.2      |
| 70°-80°   | 2448.0  | 15.7      |
| 80°-90°   | 402.3   | 2.6       |
| 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°    | 15579.0 | 100.0     |
| 0°-180°   | 15579.0 | 100.0     |

**Coefficient of Utilization**



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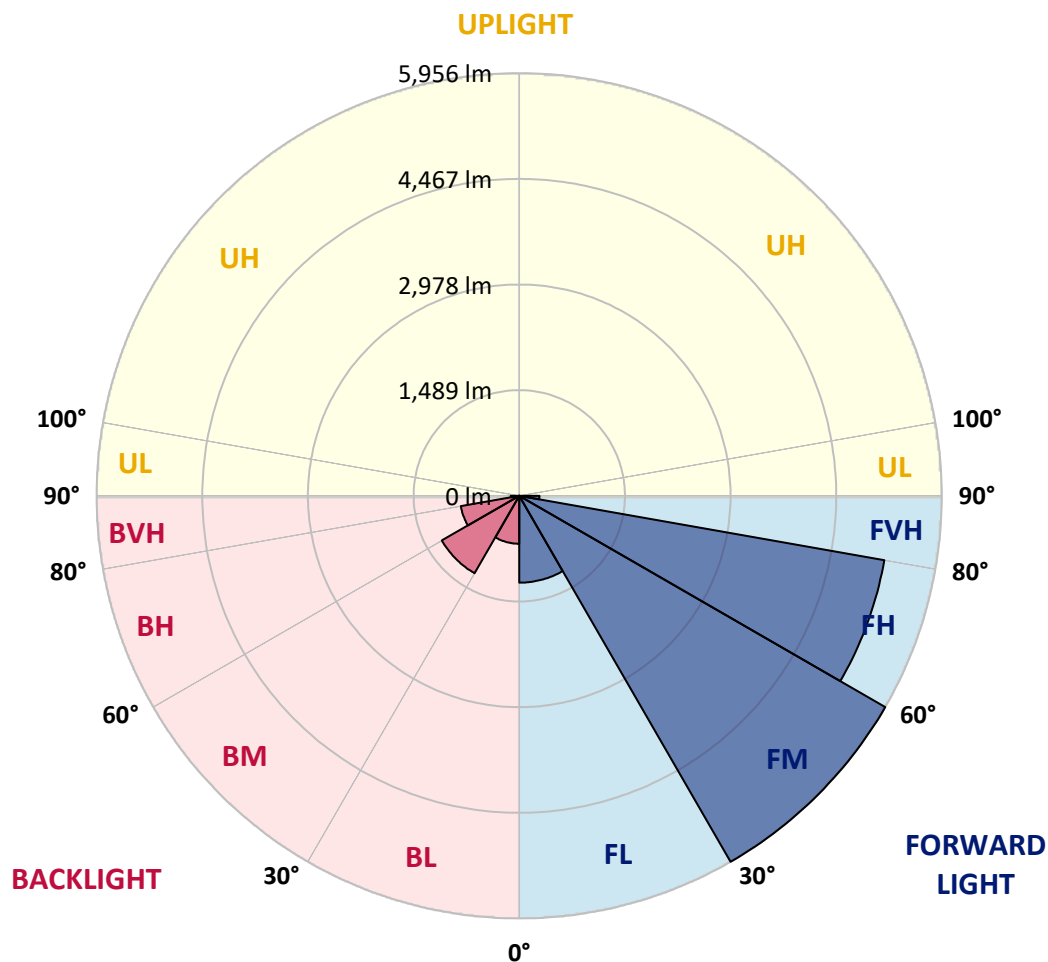
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1224.6 | 7.9       |                         |      |         |
| FM   | (30°-60°)   | 5956.0 | 38.2      |                         |      |         |
| FH   | (60°-80°)   | 5224.5 | 33.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 283.8  | 1.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 675.6  | 4.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1259.8 | 8.1       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 836.1  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 118.5  | 0.8       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 72°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 1916.6 | 1916.6 | 1916.6 | 1916.6 | 1916.6 | 1916.6 | 1916.6 | 1916.6  | 1916.6  | 1916.6  | 1916.6  |
| 2.5°  | 2117.2 | 2114.0 | 2102.8 | 2102.8 | 2081.3 | 2063.1 | 2028.7 | 2005.7  | 1978.3  | 1968.7  | 1936.5  |
| 5°    | 2322.2 | 2323.2 | 2309.3 | 2299.6 | 2268.0 | 2229.4 | 2170.9 | 2117.8  | 2064.7  | 2043.2  | 1977.2  |
| 7.5°  | 2494.3 | 2492.2 | 2488.4 | 2480.4 | 2450.9 | 2411.2 | 2332.3 | 2253.5  | 2175.2  | 2143.0  | 2029.3  |
| 10°   | 2604.8 | 2609.7 | 2612.9 | 2616.6 | 2604.3 | 2575.9 | 2501.3 | 2405.3  | 2302.8  | 2258.9  | 2091.5  |
| 12.5° | 2660.6 | 2669.2 | 2684.2 | 2710.0 | 2730.4 | 2727.2 | 2673.0 | 2571.1  | 2449.3  | 2394.0  | 2169.3  |
| 15°   | 2693.4 | 2704.6 | 2728.2 | 2774.4 | 2831.8 | 2864.5 | 2850.0 | 2757.7  | 2622.0  | 2553.9  | 2264.2  |
| 17.5° | 2713.7 | 2722.9 | 2759.3 | 2821.0 | 2906.3 | 2993.2 | 3031.3 | 2954.1  | 2817.3  | 2739.5  | 2373.1  |
| 20°   | 2727.7 | 2734.7 | 2780.3 | 2852.7 | 2963.2 | 3101.6 | 3207.8 | 3188.5  | 3032.4  | 2931.5  | 2486.8  |
| 22.5° | 2758.8 | 2764.7 | 2808.2 | 2881.1 | 3003.4 | 3182.0 | 3377.8 | 3406.8  | 3259.3  | 3145.0  | 2608.6  |
| 25°   | 2845.7 | 2845.7 | 2882.2 | 2933.1 | 3047.9 | 3251.8 | 3521.6 | 3649.8  | 3491.0  | 3358.0  | 2721.3  |
| 27.5° | 3011.5 | 3009.8 | 3023.3 | 3041.0 | 3127.9 | 3322.6 | 3649.8 | 3864.4  | 3731.3  | 3586.0  | 2830.7  |
| 30°   | 3207.8 | 3218.5 | 3220.1 | 3211.5 | 3252.3 | 3411.1 | 3768.3 | 4090.7  | 3973.3  | 3816.6  | 2942.8  |
| 32.5° | 3460.4 | 3467.4 | 3459.4 | 3430.9 | 3425.0 | 3536.6 | 3884.7 | 4327.8  | 4235.0  | 4057.5  | 3045.2  |
| 35°   | 3781.2 | 3767.8 | 3742.6 | 3684.7 | 3629.4 | 3704.5 | 4017.8 | 4564.9  | 4529.0  | 4348.7  | 3186.3  |
| 37.5° | 4125.1 | 4125.6 | 4094.5 | 3963.1 | 3886.9 | 3919.1 | 4201.2 | 4833.7  | 4884.6  | 4695.3  | 3367.1  |
| 40°   | 4400.8 | 4415.3 | 4434.6 | 4261.8 | 4163.1 | 4207.7 | 4434.6 | 5145.3  | 5305.2  | 5106.2  | 3602.6  |
| 42.5° | 4593.4 | 4610.0 | 4664.7 | 4556.3 | 4453.9 | 4536.5 | 4709.2 | 5477.9  | 5777.2  | 5580.4  | 3878.3  |
| 45°   | 4797.2 | 4806.3 | 4844.9 | 4798.3 | 4732.8 | 4919.0 | 5018.7 | 5822.3  | 6276.6  | 6085.7  | 4186.7  |
| 47.5° | 5011.8 | 5021.4 | 5061.1 | 5030.0 | 4995.7 | 5276.2 | 5341.7 | 6146.8  | 6755.1  | 6640.9  | 4516.1  |
| 50°   | 5276.7 | 5283.2 | 5320.7 | 5264.4 | 5275.1 | 5545.5 | 5630.2 | 6444.5  | 7256.7  | 7139.7  | 4846.5  |
| 52.5° | 5638.3 | 5639.9 | 5691.9 | 5641.0 | 5590.6 | 5742.9 | 5878.6 | 6725.1  | 7649.9  | 7594.6  | 5177.0  |
| 55°   | 5921.5 | 5938.7 | 6109.3 | 6098.5 | 6069.6 | 5922.1 | 6086.2 | 6992.2  | 8000.7  | 8027.0  | 5527.8  |
| 57.5° | 5740.8 | 5807.8 | 6153.3 | 6396.8 | 6633.9 | 6367.8 | 6366.8 | 7293.1  | 8326.8  | 8451.3  | 5913.5  |
| 60°   | 5027.9 | 5119.0 | 5628.1 | 6168.3 | 6910.1 | 7143.5 | 6949.3 | 7660.6  | 8656.2  | 8871.8  | 6396.8  |
| 62.5° | 3590.8 | 3741.0 | 4430.8 | 5293.4 | 6531.4 | 7657.4 | 8134.8 | 8243.7  | 9104.1  | 9358.9  | 7024.9  |
| 65°   | 1815.2 | 1929.0 | 2507.2 | 3546.3 | 5218.3 | 7321.6 | 9423.3 | 9520.4  | 9882.4  | 10108.8 | 7992.1  |
| 67.5° | 1102.9 | 1145.8 | 1427.9 | 1972.4 | 3199.2 | 5703.2 | 9843.8 | 11648.3 | 11388.7 | 11508.9 | 9371.2  |
| 70°   | 812.7  | 844.3  | 1020.3 | 1309.9 | 1839.9 | 3346.7 | 8553.2 | 13166.9 | 12996.3 | 12982.9 | 10390.4 |
| 72°   | 633.0  | 656.0  | 811.6  | 1058.4 | 1345.3 | 2007.8 | 6199.4 | 12606.4 | 13456.6 | 13389.0 | 10297.1 |
| 72.5° | 600.3  | 620.6  | 762.3  | 996.1  | 1271.3 | 1820.1 | 5573.9 | 12228.2 | 13423.3 | 13392.8 | 10176.4 |
| 75°   | 472.6  | 487.1  | 564.3  | 770.3  | 995.1  | 1032.6 | 3054.4 | 9476.4  | 11908.0 | 12403.1 | 9152.9  |
| 77.5° | 391.0  | 393.2  | 434.0  | 560.6  | 775.7  | 730.1  | 1500.4 | 6574.9  | 8526.9  | 9071.4  | 6483.7  |
| 80°   | 318.6  | 321.3  | 340.6  | 393.2  | 586.8  | 540.2  | 712.4  | 3780.7  | 4774.1  | 4780.0  | 3083.3  |
| 82.5° | 253.7  | 254.3  | 275.7  | 287.5  | 421.6  | 386.2  | 408.2  | 1775.0  | 2086.1  | 2006.7  | 1108.2  |
| 85°   | 178.6  | 174.9  | 269.3  | 236.0  | 275.7  | 247.8  | 225.3  | 702.7   | 862.6   | 825.0   | 347.1   |
| 87.5° | 59.5   | 61.7   | 119.6  | 152.9  | 160.9  | 140.5  | 100.3  | 269.3   | 325.6   | 322.9   | 110.0   |
| 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°    | 1916.6 | 1916.6 | 1916.6 | 1916.6 | 1916.6 | 1916.6 | 1916.6 | 1916.6 | 1916.6 | 1916.6 | 1916.6 |
| 2.5°  | 1926.3 | 1909.1 | 1883.9 | 1856.0 | 1834.0 | 1811.5 | 1794.9 | 1786.3 | 1776.6 | 1768.6 | 1778.2 |
| 5°    | 1946.7 | 1914.5 | 1860.8 | 1808.3 | 1769.6 | 1735.3 | 1710.6 | 1697.8 | 1686.0 | 1677.9 | 1679.0 |
| 7.5°  | 1979.9 | 1927.9 | 1837.8 | 1761.1 | 1707.4 | 1670.4 | 1645.2 | 1636.6 | 1629.1 | 1627.0 | 1629.6 |
| 10°   | 2015.3 | 1938.6 | 1807.2 | 1705.3 | 1644.1 | 1613.5 | 1602.3 | 1608.2 | 1613.5 | 1618.4 | 1623.7 |
| 12.5° | 2055.6 | 1948.3 | 1762.7 | 1639.8 | 1587.8 | 1576.0 | 1587.3 | 1613.0 | 1631.8 | 1643.0 | 1650.0 |
| 15°   | 2108.1 | 1956.9 | 1711.2 | 1574.4 | 1539.5 | 1552.9 | 1591.0 | 1635.5 | 1668.3 | 1689.2 | 1692.4 |
| 17.5° | 2156.4 | 1956.3 | 1645.2 | 1508.4 | 1500.4 | 1539.5 | 1596.9 | 1659.7 | 1703.7 | 1733.2 | 1739.1 |
| 20°   | 2206.3 | 1941.8 | 1568.5 | 1444.0 | 1460.7 | 1525.0 | 1599.6 | 1675.2 | 1728.3 | 1762.7 | 1770.7 |
| 22.5° | 2253.0 | 1916.6 | 1484.3 | 1385.6 | 1427.4 | 1505.7 | 1589.4 | 1666.1 | 1719.2 | 1747.1 | 1755.7 |
| 25°   | 2284.6 | 1872.6 | 1399.0 | 1336.2 | 1397.9 | 1482.1 | 1556.2 | 1617.8 | 1657.5 | 1671.5 | 1673.6 |
| 27.5° | 2300.7 | 1815.2 | 1318.5 | 1293.3 | 1367.3 | 1443.5 | 1494.5 | 1525.0 | 1536.3 | 1535.2 | 1533.1 |
| 30°   | 2302.8 | 1739.6 | 1249.3 | 1258.4 | 1331.9 | 1386.6 | 1410.8 | 1404.9 | 1390.4 | 1365.7 | 1367.9 |
| 32.5° | 2295.9 | 1654.3 | 1191.4 | 1225.2 | 1286.9 | 1317.4 | 1318.5 | 1290.1 | 1251.5 | 1212.3 | 1201.6 |
| 35°   | 2298.0 | 1570.6 | 1140.4 | 1187.6 | 1232.2 | 1245.6 | 1233.2 | 1191.4 | 1138.8 | 1088.4 | 1077.7 |
| 37.5° | 2321.6 | 1497.7 | 1096.4 | 1144.2 | 1171.5 | 1174.8 | 1157.1 | 1113.1 | 1074.4 | 1025.1 | 1020.8 |
| 40°   | 2377.9 | 1445.6 | 1054.6 | 1095.4 | 1110.9 | 1112.5 | 1087.3 | 1056.2 | 1059.4 | 1033.1 | 1032.6 |
| 42.5° | 2479.3 | 1423.1 | 1017.6 | 1044.4 | 1054.1 | 1057.3 | 1038.0 | 1018.1 | 1046.0 | 1028.9 | 1023.0 |
| 45°   | 2610.2 | 1428.5 | 986.5  | 994.5  | 1012.2 | 1027.2 | 1015.4 | 991.3  | 1002.0 | 927.5  | 902.8  |
| 47.5° | 2761.5 | 1462.8 | 961.8  | 951.6  | 982.2  | 1010.6 | 992.4  | 955.9  | 917.8  | 843.8  | 829.8  |
| 50°   | 2938.5 | 1515.9 | 939.3  | 909.2  | 949.5  | 988.1  | 969.8  | 917.8  | 860.4  | 824.5  | 819.6  |
| 52.5° | 3123.0 | 1580.8 | 916.7  | 862.6  | 908.2  | 970.9  | 961.8  | 909.2  | 838.4  | 803.0  | 796.6  |
| 55°   | 3332.2 | 1646.3 | 888.3  | 808.4  | 863.6  | 962.9  | 958.0  | 878.1  | 821.8  | 801.9  | 797.1  |
| 57.5° | 3592.4 | 1720.8 | 850.8  | 752.1  | 821.8  | 933.9  | 918.9  | 859.3  | 804.6  | 789.6  | 788.0  |
| 60°   | 3931.4 | 1830.8 | 796.6  | 692.0  | 770.8  | 889.4  | 886.2  | 832.0  | 777.3  | 766.5  | 764.4  |
| 62.5° | 4439.9 | 2012.6 | 722.0  | 631.9  | 714.0  | 813.7  | 843.2  | 795.0  | 748.3  | 747.8  | 748.8  |
| 65°   | 5228.5 | 2286.2 | 641.0  | 579.3  | 656.6  | 749.9  | 793.4  | 756.9  | 718.8  | 729.5  | 731.1  |
| 67.5° | 6142.5 | 2513.1 | 561.6  | 527.8  | 598.1  | 689.3  | 748.3  | 718.8  | 679.6  | 707.5  | 708.1  |
| 70°   | 6446.7 | 2310.4 | 491.9  | 476.9  | 537.5  | 630.8  | 699.5  | 677.0  | 637.3  | 665.2  | 662.5  |
| 72°   | 5999.3 | 1865.1 | 446.8  | 438.3  | 491.9  | 582.6  | 656.0  | 637.8  | 598.6  | 617.4  | 610.4  |
| 72.5° | 5858.2 | 1778.2 | 435.6  | 428.6  | 479.6  | 570.2  | 644.8  | 628.1  | 589.0  | 605.1  | 598.6  |
| 75°   | 5225.8 | 1544.3 | 374.4  | 376.0  | 418.4  | 510.1  | 581.5  | 576.1  | 535.9  | 537.5  | 535.3  |
| 77.5° | 3790.3 | 1132.4 | 315.4  | 326.1  | 356.2  | 448.4  | 517.6  | 514.4  | 470.4  | 462.4  | 460.8  |
| 80°   | 1758.9 | 577.7  | 256.9  | 261.8  | 292.9  | 375.0  | 441.5  | 437.2  | 401.8  | 391.6  | 385.7  |
| 82.5° | 602.4  | 274.6  | 193.1  | 196.3  | 226.9  | 302.0  | 383.0  | 380.3  | 350.8  | 331.0  | 318.6  |
| 85°   | 215.1  | 136.8  | 135.2  | 132.0  | 162.0  | 237.6  | 333.7  | 319.2  | 275.7  | 235.0  | 233.9  |
| 87.5° | 69.7   | 58.5   | 69.7   | 69.2   | 94.4   | 160.9  | 242.5  | 206.5  | 200.1  | 166.3  | 163.1  |
| 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)