

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: P452201

Luminaire Tested: **GLAN-SA3A-827-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3A-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8255 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 93  
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

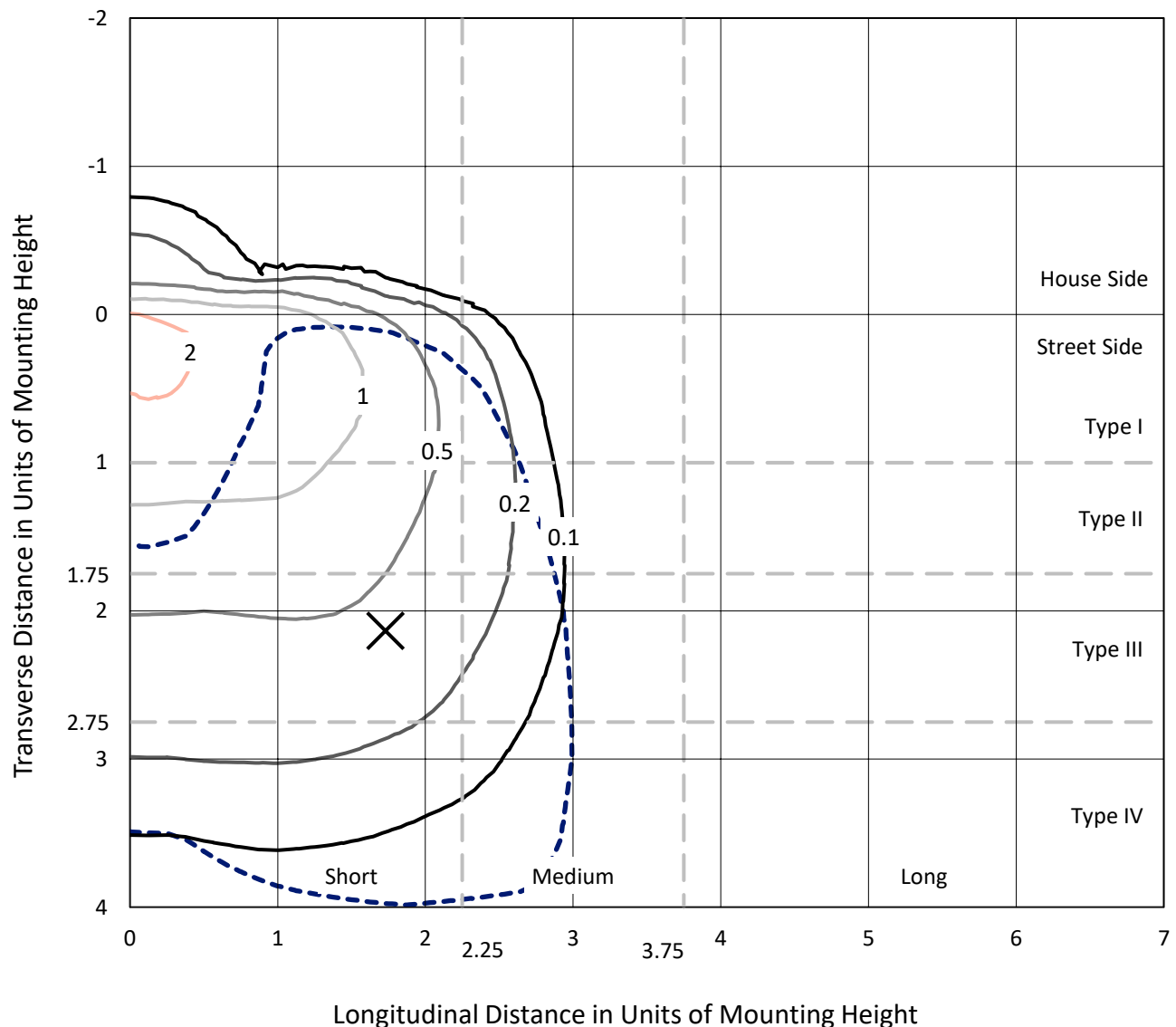


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## Iso-Footcandle Lines of Horizontal Illumination

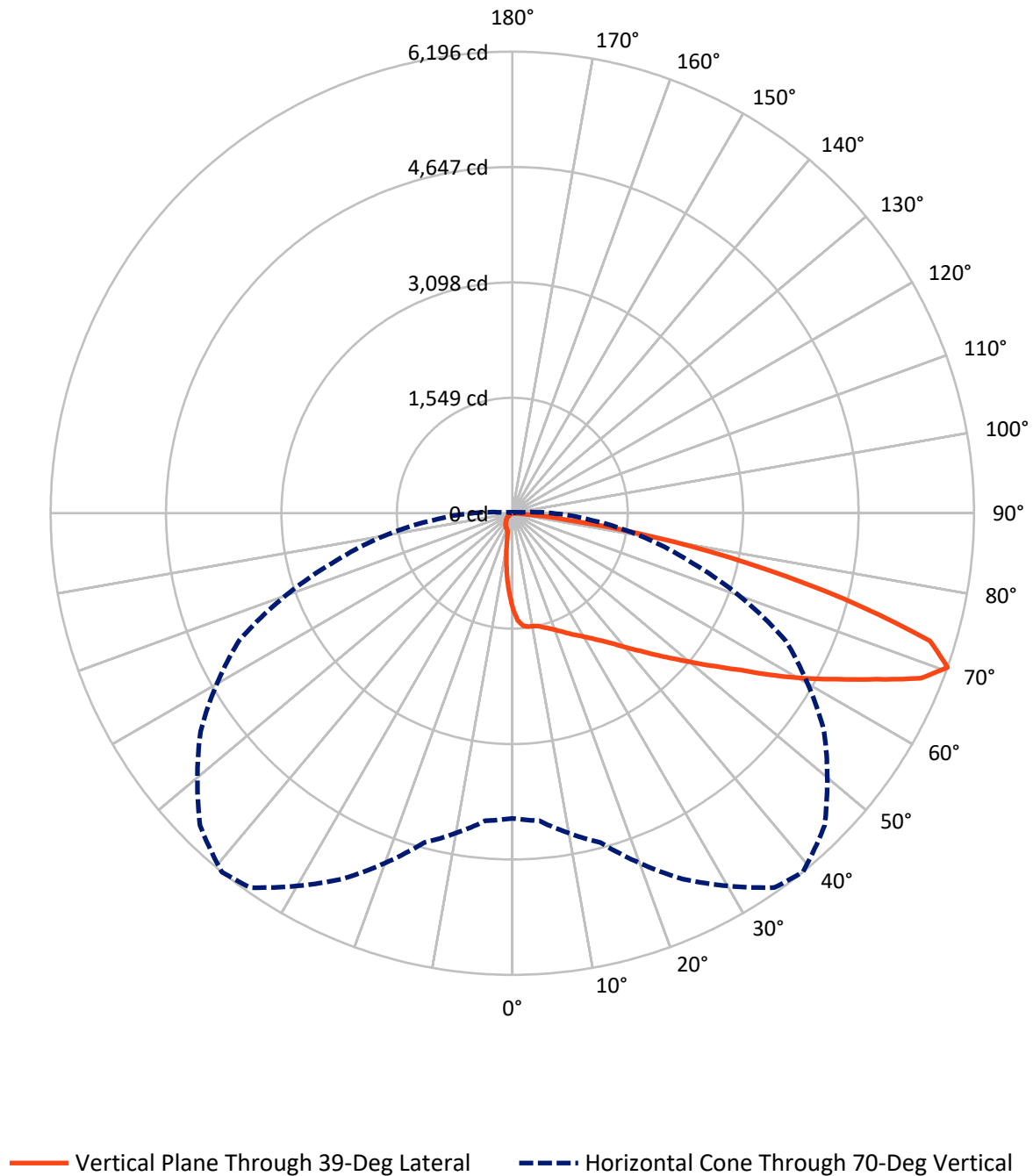
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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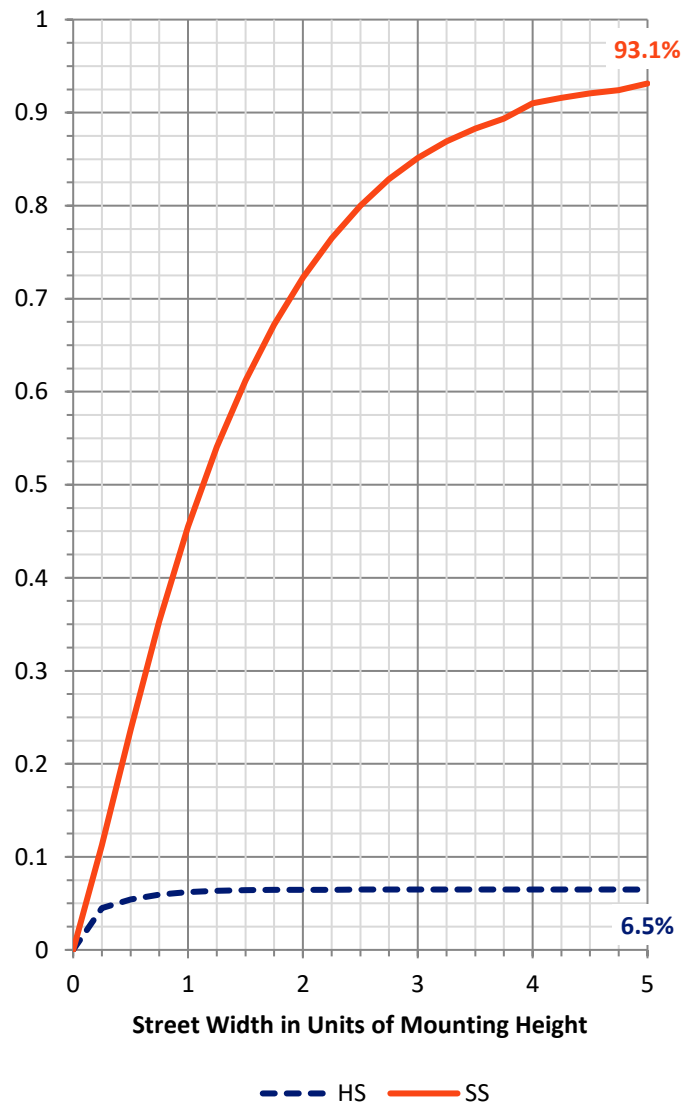
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 538.3    | 0.0    | 538.3  |
|                    | % Fixture | 6.5      | 0.0    | 6.5    |
| <b>Street Side</b> | Lumens    | 7716.7   | 0.0    | 7716.7 |
|                    | % Fixture | 93.5     | 0.0    | 93.5   |
| <b>Total</b>       | Lumens    | 8255.0   | 0.0    | 8255.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.9  | 1.3       |
| 10°-20°   | 285.5  | 3.5       |
| 20°-30°   | 478.3  | 5.8       |
| 30°-40°   | 741.8  | 9.0       |
| 40°-50°   | 1175.5 | 14.2      |
| 50°-60°   | 1723.1 | 20.9      |
| 60°-70°   | 2208.6 | 26.8      |
| 70°-80°   | 1387.8 | 16.8      |
| 80°-90°   | 144.6  | 1.8       |
| 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°    | 8255.0 | 100.0     |
| 0°-180°   | 8255.0 | 100.0     |

**Coefficient of Utilization**



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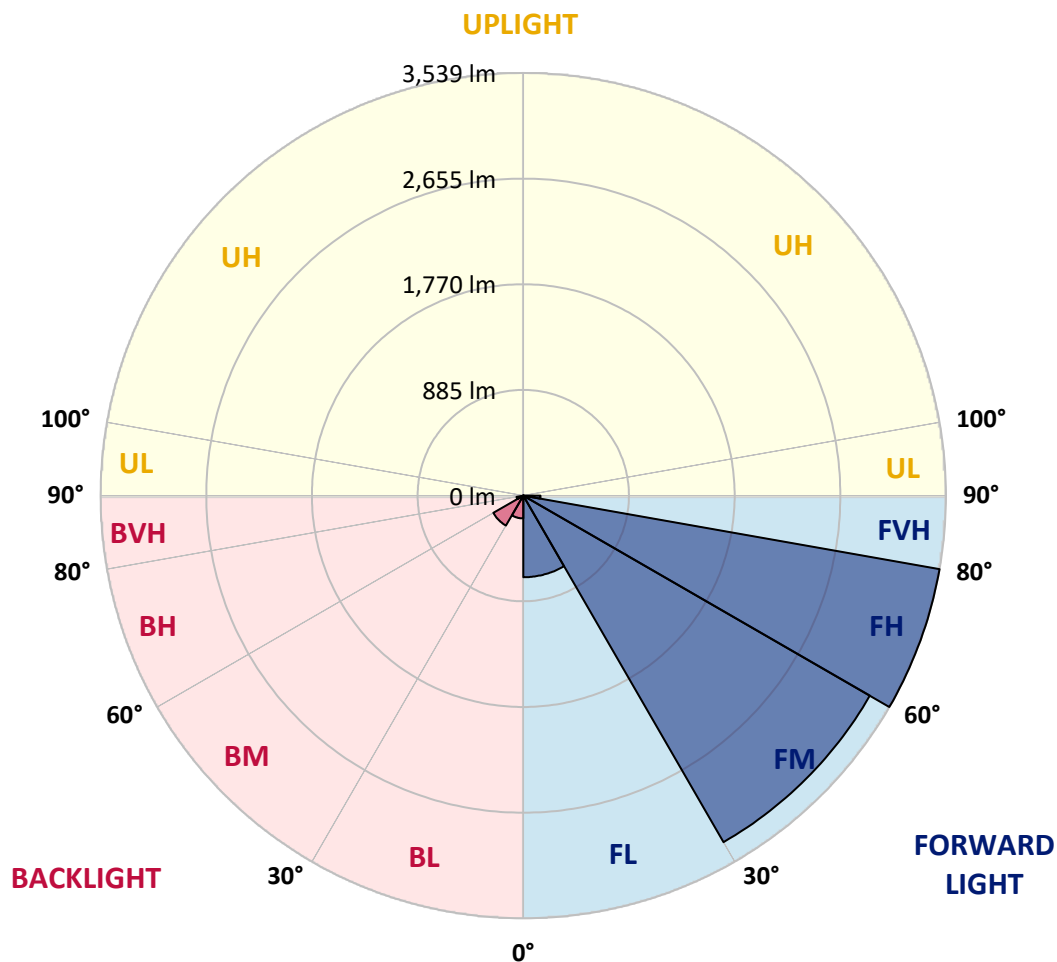
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 683.1  | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 3350.7 | 40.6      |                         |      |         |
| FH   | (60°-80°)   | 3539.5 | 42.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 143.5  | 1.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 190.6  | 2.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 289.7  | 3.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 56.9   | 0.7       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.1    | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1288.1 | 1288.1 | 1288.1 | 1288.1 | 1288.1 | 1288.1 | 1288.1 | 1288.1 | 1288.1 | 1288.1 | 1288.1 |
| 2.5°  | 1488.3 | 1483.3 | 1476.7 | 1468.9 | 1446.7 | 1442.8 | 1429.5 | 1401.2 | 1367.4 | 1339.7 | 1301.4 |
| 5°    | 1558.8 | 1561.5 | 1556.5 | 1542.7 | 1526.6 | 1517.2 | 1500.5 | 1456.7 | 1412.9 | 1356.8 | 1294.2 |
| 7.5°  | 1574.9 | 1580.4 | 1574.3 | 1561.0 | 1545.5 | 1535.5 | 1522.2 | 1484.4 | 1433.4 | 1369.6 | 1283.6 |
| 10°   | 1573.2 | 1579.8 | 1576.0 | 1563.8 | 1551.0 | 1541.6 | 1527.1 | 1497.2 | 1456.1 | 1389.0 | 1287.0 |
| 12.5° | 1570.4 | 1579.3 | 1578.7 | 1572.6 | 1562.1 | 1554.9 | 1546.0 | 1519.4 | 1481.1 | 1417.3 | 1305.3 |
| 15°   | 1562.7 | 1573.7 | 1583.7 | 1588.7 | 1589.3 | 1589.3 | 1578.2 | 1549.9 | 1513.3 | 1454.5 | 1329.1 |
| 17.5° | 1566.0 | 1578.7 | 1603.7 | 1618.1 | 1628.1 | 1627.0 | 1615.3 | 1584.8 | 1544.3 | 1492.8 | 1354.1 |
| 20°   | 1586.5 | 1603.7 | 1638.6 | 1667.5 | 1677.5 | 1674.1 | 1658.6 | 1623.1 | 1577.1 | 1525.5 | 1378.5 |
| 22.5° | 1637.0 | 1652.5 | 1696.3 | 1730.2 | 1737.4 | 1728.5 | 1706.3 | 1658.1 | 1616.5 | 1561.0 | 1407.9 |
| 25°   | 1712.4 | 1730.7 | 1771.2 | 1796.7 | 1796.7 | 1791.8 | 1760.7 | 1704.1 | 1660.8 | 1610.4 | 1446.2 |
| 27.5° | 1804.0 | 1819.5 | 1859.4 | 1882.2 | 1868.9 | 1854.4 | 1823.4 | 1755.1 | 1713.5 | 1672.5 | 1492.2 |
| 30°   | 1896.6 | 1906.6 | 1948.7 | 1958.7 | 1944.9 | 1926.5 | 1893.3 | 1825.0 | 1788.4 | 1756.8 | 1558.8 |
| 32.5° | 1984.2 | 2005.9 | 2040.8 | 2038.6 | 2019.7 | 2010.9 | 1980.4 | 1907.7 | 1887.2 | 1883.8 | 1652.0 |
| 35°   | 2071.9 | 2088.5 | 2119.6 | 2127.4 | 2110.7 | 2109.1 | 2086.9 | 2033.1 | 2033.6 | 2055.2 | 1797.3 |
| 37.5° | 2147.3 | 2162.3 | 2198.9 | 2216.1 | 2219.4 | 2227.8 | 2218.9 | 2183.4 | 2233.9 | 2293.2 | 1989.8 |
| 40°   | 2210.6 | 2231.6 | 2278.2 | 2308.2 | 2342.6 | 2373.1 | 2374.8 | 2382.5 | 2484.0 | 2586.1 | 2241.1 |
| 42.5° | 2259.9 | 2289.3 | 2357.0 | 2412.5 | 2491.3 | 2530.1 | 2561.1 | 2603.9 | 2774.7 | 2927.3 | 2537.3 |
| 45°   | 2324.3 | 2358.1 | 2442.4 | 2529.5 | 2652.7 | 2716.5 | 2759.7 | 2874.0 | 3116.4 | 3324.4 | 2841.3 |
| 47.5° | 2430.8 | 2448.5 | 2534.5 | 2661.6 | 2823.5 | 2914.5 | 2998.8 | 3171.9 | 3483.1 | 3669.5 | 3094.2 |
| 50°   | 2567.8 | 2579.5 | 2644.4 | 2820.8 | 3030.4 | 3150.3 | 3303.9 | 3507.5 | 3863.6 | 3955.7 | 3237.4 |
| 52.5° | 2719.2 | 2723.1 | 2771.9 | 2996.1 | 3262.3 | 3413.2 | 3585.2 | 3836.5 | 4173.7 | 4159.9 | 3332.2 |
| 55°   | 2895.1 | 2889.5 | 2931.1 | 3186.3 | 3536.9 | 3709.4 | 3909.7 | 4173.2 | 4442.8 | 4304.6 | 3386.6 |
| 57.5° | 3096.5 | 3081.5 | 3122.0 | 3438.7 | 3888.6 | 4095.0 | 4298.5 | 4463.8 | 4651.3 | 4426.1 | 3412.6 |
| 60°   | 3307.2 | 3277.3 | 3325.6 | 3722.2 | 4303.0 | 4498.8 | 4668.0 | 4712.4 | 4871.0 | 4522.6 | 3367.7 |
| 62.5° | 3475.3 | 3475.9 | 3565.7 | 4023.9 | 4729.0 | 4900.4 | 4990.3 | 5030.2 | 5060.2 | 4501.6 | 3131.4 |
| 65°   | 3737.7 | 3746.6 | 3890.3 | 4442.8 | 5222.1 | 5370.8 | 5432.4 | 5302.6 | 5068.5 | 4239.7 | 2776.4 |
| 67.5° | 4008.4 | 4036.7 | 4299.6 | 5019.7 | 5791.8 | 5911.7 | 5832.3 | 5355.3 | 4842.2 | 3642.3 | 2105.2 |
| 70°   | 4096.6 | 4143.2 | 4576.5 | 5416.9 | 6133.6 | 6195.7 | 5927.2 | 5109.5 | 4047.8 | 2435.2 | 1059.5 |
| 72.5° | 3753.8 | 3829.2 | 4417.2 | 5272.1 | 5915.5 | 5861.7 | 5303.1 | 4285.2 | 2573.4 | 924.7  | 323.4  |
| 75°   | 2647.1 | 2680.4 | 3671.1 | 4373.4 | 4757.8 | 4605.3 | 4033.9 | 2762.5 | 1058.4 | 259.6  | 110.9  |
| 77.5° | 1366.8 | 1350.7 | 2183.4 | 2901.7 | 3393.2 | 3235.1 | 2641.6 | 1430.1 | 401.1  | 108.2  | 68.8   |
| 80°   | 706.7  | 718.4  | 944.7  | 1520.5 | 2071.3 | 1906.0 | 1408.4 | 662.9  | 213.6  | 59.9   | 52.7   |
| 82.5° | 396.1  | 371.7  | 543.1  | 664.0  | 968.5  | 759.4  | 540.3  | 469.3  | 93.2   | 36.1   | 49.9   |
| 85°   | 72.1   | 75.4   | 297.9  | 358.9  | 336.2  | 213.6  | 174.2  | 313.4  | 27.2   | 20.0   | 34.9   |
| 87.5° | 1.1    | 1.1    | 57.7   | 103.2  | 65.5   | 30.0   | 54.9   | 44.9   | 5.5    | 7.8    | 6.1    |
| 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°    | 1288.1 | 1288.1 | 1288.1 | 1288.1 | 1288.1 | 1288.1 | 1288.1 | 1288.1 | 1288.1 | 1288.1 | 1288.1 |
| 2.5°  | 1282.0 | 1260.9 | 1221.5 | 1182.7 | 1133.3 | 1092.8 | 1065.6 | 1037.3 | 1008.5 | 1010.7 | 1017.4 |
| 5°    | 1259.8 | 1223.2 | 1145.5 | 1063.4 | 984.6  | 913.6  | 843.7  | 781.0  | 755.5  | 732.2  | 733.3  |
| 7.5°  | 1237.6 | 1186.0 | 1072.3 | 943.6  | 824.3  | 703.4  | 615.7  | 543.6  | 505.4  | 476.5  | 468.2  |
| 10°   | 1227.6 | 1159.4 | 1005.2 | 828.2  | 659.0  | 527.0  | 414.4  | 355.6  | 310.1  | 295.7  | 299.5  |
| 12.5° | 1232.0 | 1146.1 | 944.7  | 723.9  | 522.5  | 367.2  | 288.5  | 258.5  | 248.5  | 246.9  | 245.7  |
| 15°   | 1240.4 | 1136.6 | 885.3  | 608.5  | 383.9  | 272.9  | 242.4  | 236.9  | 235.8  | 234.6  | 235.2  |
| 17.5° | 1251.5 | 1128.3 | 822.1  | 500.4  | 294.6  | 238.5  | 229.7  | 226.9  | 226.3  | 226.3  | 226.3  |
| 20°   | 1262.5 | 1118.9 | 751.6  | 403.8  | 245.7  | 225.2  | 219.7  | 218.0  | 217.5  | 217.5  | 216.9  |
| 22.5° | 1275.3 | 1110.6 | 680.1  | 317.3  | 226.3  | 215.8  | 210.8  | 209.7  | 209.1  | 208.6  | 208.6  |
| 25°   | 1293.6 | 1100.0 | 604.1  | 259.6  | 214.1  | 206.9  | 201.9  | 200.8  | 200.3  | 198.0  | 198.6  |
| 27.5° | 1318.0 | 1092.2 | 525.9  | 224.1  | 203.0  | 195.8  | 192.5  | 190.8  | 189.7  | 188.1  | 188.6  |
| 30°   | 1351.3 | 1085.6 | 442.7  | 204.7  | 190.3  | 184.2  | 180.8  | 179.7  | 178.6  | 177.0  | 177.0  |
| 32.5° | 1409.0 | 1088.4 | 355.0  | 189.2  | 178.6  | 171.4  | 168.1  | 167.0  | 165.9  | 164.2  | 164.2  |
| 35°   | 1495.5 | 1104.5 | 284.0  | 175.8  | 164.8  | 157.5  | 154.2  | 154.2  | 152.5  | 150.3  | 149.8  |
| 37.5° | 1637.0 | 1145.5 | 228.0  | 163.1  | 151.4  | 144.8  | 140.9  | 139.8  | 138.1  | 134.8  | 134.2  |
| 40°   | 1804.0 | 1209.3 | 191.9  | 150.3  | 139.2  | 132.6  | 129.3  | 125.9  | 121.5  | 118.2  | 117.6  |
| 42.5° | 2013.6 | 1274.7 | 166.4  | 137.6  | 127.6  | 121.5  | 117.6  | 112.1  | 105.4  | 101.0  | 100.4  |
| 45°   | 2232.2 | 1334.7 | 149.2  | 125.9  | 116.5  | 111.5  | 107.1  | 98.2   | 89.9   | 84.3   | 83.8   |
| 47.5° | 2395.3 | 1345.8 | 135.4  | 114.8  | 107.1  | 102.1  | 96.0   | 84.9   | 73.8   | 68.8   | 67.1   |
| 50°   | 2472.4 | 1291.9 | 120.9  | 103.7  | 97.6   | 92.1   | 84.3   | 71.6   | 59.4   | 53.3   | 52.1   |
| 52.5° | 2499.6 | 1198.8 | 109.3  | 93.7   | 88.2   | 81.5   | 72.1   | 57.7   | 46.6   | 40.5   | 39.9   |
| 55°   | 2488.5 | 1081.2 | 98.7   | 84.3   | 77.1   | 69.3   | 59.9   | 46.0   | 34.4   | 29.4   | 28.3   |
| 57.5° | 2430.2 | 931.4  | 88.2   | 74.9   | 66.0   | 58.2   | 47.7   | 34.4   | 23.3   | 18.9   | 18.3   |
| 60°   | 2273.2 | 727.2  | 77.7   | 64.3   | 56.0   | 47.7   | 37.7   | 24.4   | 14.4   | 10.5   | 10.5   |
| 62.5° | 2008.1 | 539.7  | 67.7   | 53.8   | 47.2   | 38.3   | 26.6   | 15.5   | 7.8    | 5.5    | 5.0    |
| 65°   | 1678.0 | 398.3  | 56.6   | 45.5   | 39.4   | 30.0   | 18.9   | 9.4    | 3.9    | 1.7    | 1.1    |
| 67.5° | 1171.0 | 245.7  | 47.2   | 37.2   | 32.2   | 21.6   | 11.6   | 3.9    | 1.7    | 0.0    | 0.0    |
| 70°   | 532.0  | 117.0  | 36.1   | 28.3   | 24.4   | 15.5   | 6.1    | 2.2    | 1.1    | 0.0    | 0.0    |
| 72.5° | 165.3  | 61.6   | 25.5   | 20.5   | 16.6   | 10.0   | 3.3    | 1.7    | 1.1    | 0.0    | 0.0    |
| 75°   | 76.6   | 39.4   | 16.1   | 11.1   | 9.4    | 5.0    | 2.2    | 1.1    | 0.6    | 0.0    | 0.0    |
| 77.5° | 57.1   | 30.5   | 9.4    | 6.1    | 5.0    | 3.3    | 1.7    | 1.1    | 0.6    | 0.0    | 0.0    |
| 80°   | 49.9   | 15.5   | 5.5    | 3.9    | 2.8    | 2.2    | 1.1    | 0.6    | 0.0    | 0.0    | 0.0    |
| 82.5° | 44.9   | 7.8    | 3.3    | 2.2    | 1.7    | 1.1    | 0.6    | 0.6    | 0.0    | 0.0    | 0.0    |
| 85°   | 24.4   | 4.4    | 2.2    | 1.7    | 1.1    | 0.6    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 4.4    | 2.2    | 1.7    | 1.1    | 1.1    | 0.6    | 0.6    | 0.6    | 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)