

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: P528878

Luminaire Tested: **GLAN-SA4A-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528878  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-730-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

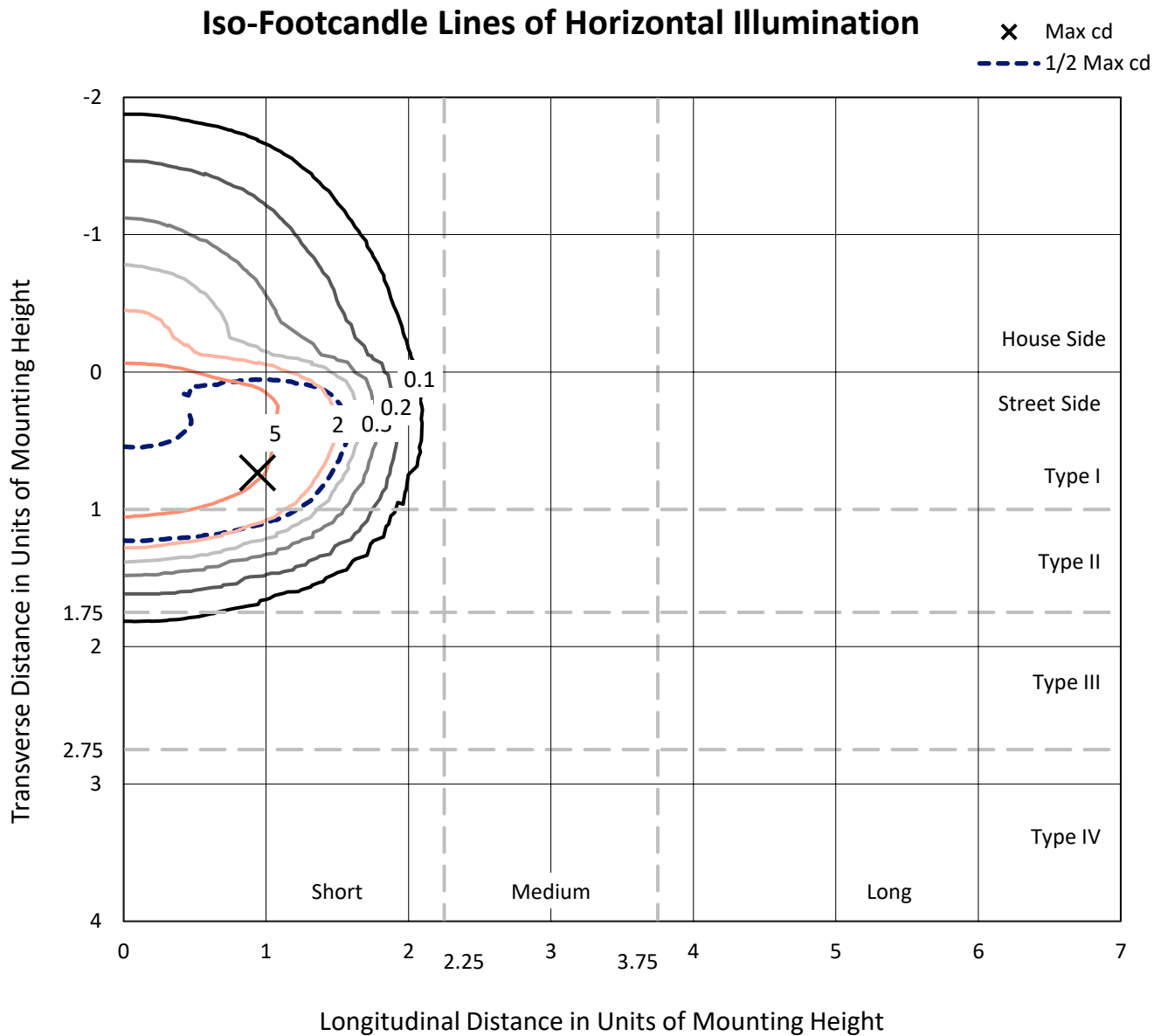
Lumens per Lamp: N/A  
Luminaire Lumens: 14867 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 121  
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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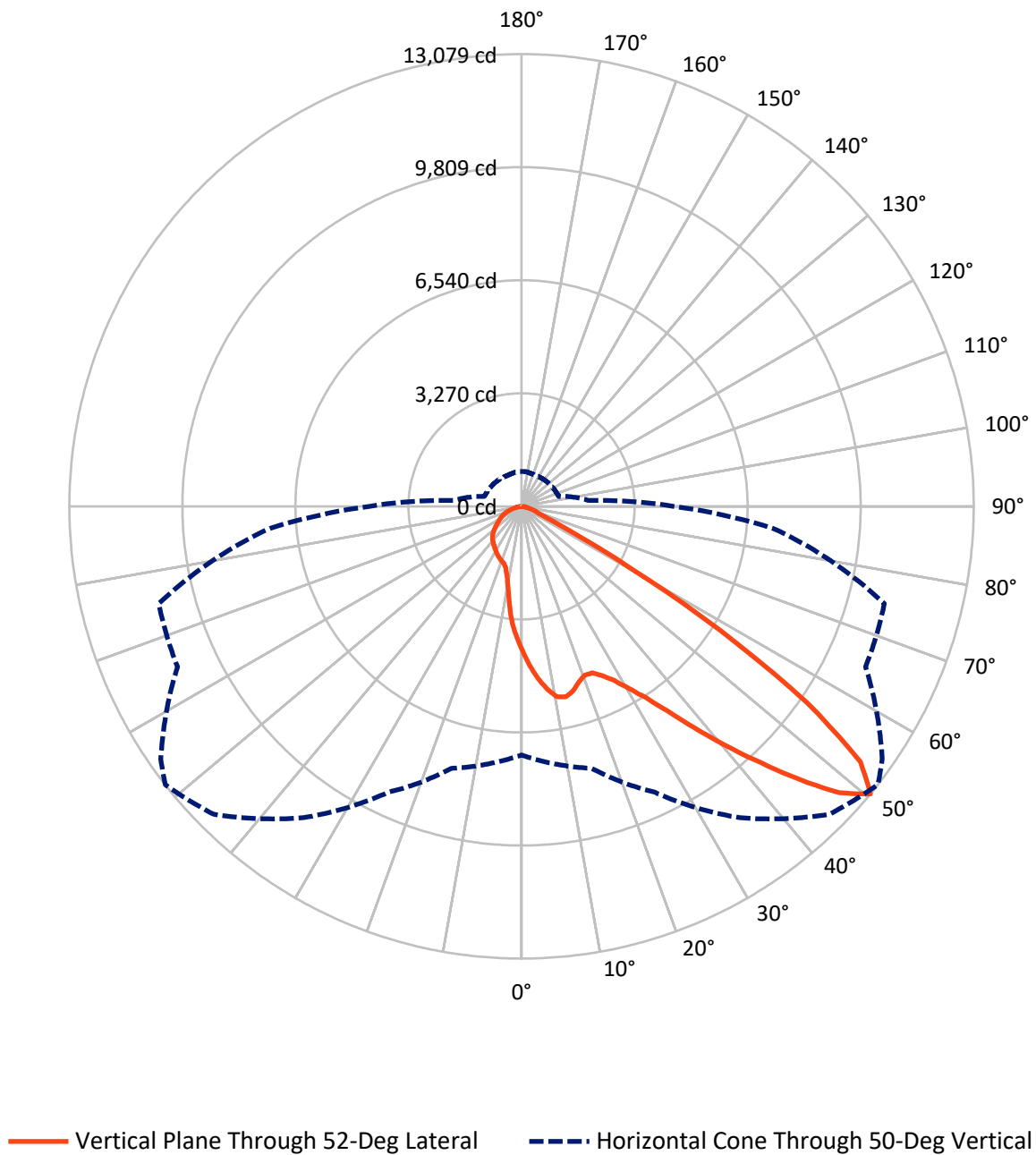


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2794.6   | 0.0    | 2794.6  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 12072.4  | 0.0    | 12072.4 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 14867.0  | 0.0    | 14867.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 386.3   | 2.6       |
| 10°-20°   | 1035.3  | 7.0       |
| 20°-30°   | 1743.9  | 11.7      |
| 30°-40°   | 2926.4  | 19.7      |
| 40°-50°   | 4476.6  | 30.1      |
| 50°-60°   | 3263.8  | 22.0      |
| 60°-70°   | 726.4   | 4.9       |
| 70°-80°   | 262.0   | 1.8       |
| 80°-90°   | 46.4    | 0.3       |
| 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°    | 14867.0 | 100.0     |
| 0°-180°   | 14867.0 | 100.0     |

**Coefficient of Utilization**



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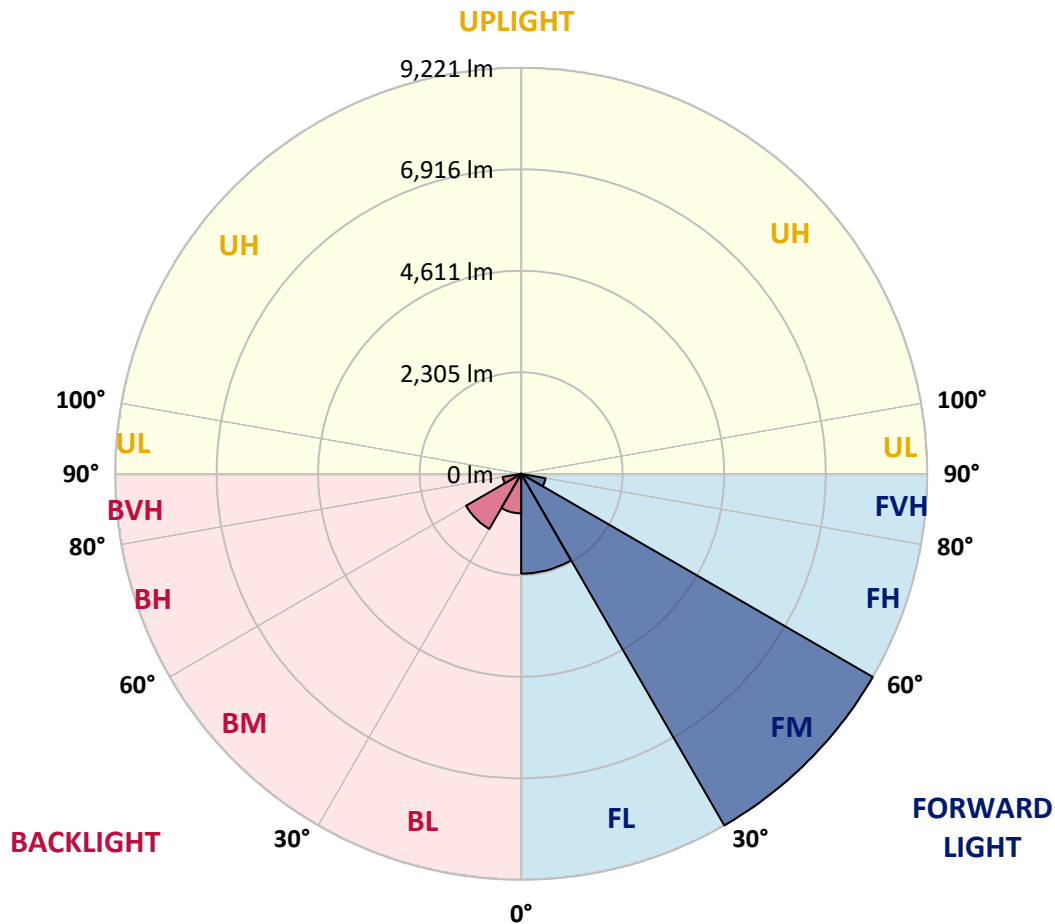
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 2267.7 | 15.3      |                         |      |        |
| FM   | (30°-60°)   | 9221.3 | 62.0      |                         |      |        |
| FH   | (60°-80°)   | 562.6  | 3.8       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 20.8   | 0.1       |                         |      | G1/100 |
| BL   | (0°-30°)    | 897.7  | 6.0       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 1445.6 | 9.7       | B2/2500                 |      |        |
| BH   | (60°-80°)   | 425.8  | 2.9       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 25.6   | 0.2       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4190.8  | 4190.8  | 4190.8  | 4190.8  | 4190.8  | 4190.8  | 4190.8  | 4190.8  | 4190.8  | 4190.8  | 4190.8 |
| 2.5°  | 4934.3  | 4839.4  | 4850.1  | 4782.0  | 4708.6  | 4687.1  | 4611.8  | 4540.1  | 4486.4  | 4371.7  | 4266.0 |
| 5°    | 5393.0  | 5364.3  | 5321.3  | 5267.6  | 5212.0  | 5075.9  | 4998.8  | 4909.2  | 4712.1  | 4534.8  | 4359.2 |
| 7.5°  | 5459.3  | 5453.9  | 5477.2  | 5477.2  | 5496.9  | 5444.9  | 5335.7  | 5272.9  | 5063.3  | 4774.9  | 4448.8 |
| 10°   | 4993.4  | 5009.6  | 5122.4  | 5269.4  | 5473.6  | 5615.2  | 5597.2  | 5581.1  | 5351.8  | 4957.6  | 4554.5 |
| 12.5° | 4622.6  | 4586.7  | 4653.0  | 4778.4  | 5084.8  | 5427.0  | 5658.2  | 5659.9  | 5600.8  | 5249.6  | 4631.5 |
| 15°   | 4412.9  | 4438.0  | 4455.9  | 4515.1  | 4746.2  | 5142.1  | 5548.9  | 5668.9  | 5928.7  | 5455.7  | 4753.4 |
| 17.5° | 4547.3  | 4463.1  | 4459.5  | 4473.8  | 4592.1  | 4889.5  | 5346.4  | 5552.4  | 6107.9  | 5720.9  | 4903.9 |
| 20°   | 4722.9  | 4721.1  | 4670.9  | 4653.0  | 4651.2  | 4916.4  | 5213.8  | 5493.3  | 6202.8  | 6064.9  | 5056.1 |
| 22.5° | 5031.1  | 5031.1  | 4948.6  | 4909.2  | 4825.0  | 5041.8  | 5231.7  | 5421.7  | 6360.5  | 6301.4  | 5129.6 |
| 25°   | 5547.1  | 5462.9  | 5321.3  | 5224.6  | 5176.2  | 5253.2  | 5421.7  | 5591.9  | 6498.5  | 6552.2  | 5281.9 |
| 27.5° | 6023.7  | 5891.1  | 5821.2  | 5654.6  | 5590.1  | 5545.3  | 5699.4  | 5871.4  | 6659.7  | 6942.8  | 5364.3 |
| 30°   | 6564.7  | 6541.5  | 6416.0  | 6201.0  | 6041.6  | 5959.2  | 6100.7  | 6270.9  | 6955.3  | 7342.3  | 5554.2 |
| 32.5° | 7532.3  | 7320.8  | 7150.6  | 6887.3  | 6627.5  | 6451.9  | 6591.6  | 6704.5  | 7446.3  | 7759.8  | 5762.1 |
| 35°   | 8576.8  | 8508.7  | 8214.9  | 7740.1  | 7342.3  | 7184.7  | 7267.1  | 7351.3  | 8017.8  | 8397.6  | 6111.5 |
| 37.5° | 9603.5  | 9510.3  | 9268.4  | 8868.9  | 8385.1  | 8064.4  | 8123.5  | 8222.1  | 8659.2  | 9257.7  | 6537.9 |
| 40°   | 10341.6 | 10227.0 | 10105.1 | 10046.0 | 9565.8  | 9126.9  | 9092.8  | 9117.9  | 9526.4  | 10063.9 | 7010.9 |
| 42.5° | 10395.4 | 10536.9 | 10574.5 | 10812.8 | 10700.0 | 10339.8 | 10130.2 | 10135.6 | 10354.2 | 10861.2 | 7489.3 |
| 45°   | 10282.5 | 10151.7 | 10429.4 | 11079.8 | 11452.5 | 11620.9 | 11267.9 | 11223.1 | 10866.6 | 11323.5 | 7727.6 |
| 47.5° | 9098.2  | 9134.0  | 9603.5  | 10631.9 | 11708.7 | 12461.2 | 12378.8 | 12230.1 | 11140.7 | 11307.3 | 7689.9 |
| 50°   | 7191.8  | 7408.6  | 7844.0  | 9125.1  | 10992.0 | 12593.8 | 13079.3 | 12735.3 | 10977.7 | 10863.0 | 7306.5 |
| 52.5° | 4789.2  | 4878.8  | 5165.4  | 6819.2  | 8838.4  | 11257.2 | 12273.1 | 12351.9 | 10827.2 | 10280.7 | 6821.0 |
| 55°   | 2132.1  | 2124.9  | 2528.1  | 3561.9  | 5545.3  | 8566.1  | 10028.1 | 10508.3 | 10248.5 | 9687.7  | 6348.0 |
| 57.5° | 903.0   | 933.5   | 1098.3  | 1539.1  | 2727.0  | 5169.0  | 6794.1  | 7215.1  | 7881.6  | 7955.1  | 4869.8 |
| 60°   | 611.0   | 614.5   | 659.3   | 770.4   | 1141.3  | 2427.7  | 3563.7  | 4068.9  | 4545.5  | 4513.3  | 2583.6 |
| 62.5° | 480.2   | 492.7   | 526.8   | 571.5   | 677.3   | 1101.9  | 1594.6  | 1875.9  | 1906.4  | 1603.6  | 980.1  |
| 65°   | 410.3   | 412.1   | 446.1   | 483.8   | 530.3   | 641.4   | 768.6   | 783.0   | 791.9   | 763.3   | 720.3  |
| 67.5° | 338.6   | 342.2   | 369.1   | 412.1   | 455.1   | 490.9   | 526.8   | 544.7   | 585.9   | 666.5   | 655.8  |
| 70°   | 268.8   | 274.1   | 297.4   | 333.3   | 372.7   | 394.2   | 439.0   | 455.1   | 492.7   | 555.4   | 580.5  |
| 72.5° | 204.3   | 206.0   | 225.8   | 250.8   | 286.7   | 308.2   | 345.8   | 363.7   | 388.8   | 442.5   | 465.8  |
| 75°   | 146.9   | 152.3   | 166.6   | 179.2   | 184.5   | 198.9   | 234.7   | 254.4   | 290.3   | 313.5   | 315.3  |
| 77.5° | 77.0    | 80.6    | 84.2    | 84.2    | 102.1   | 129.0   | 152.3   | 163.0   | 188.1   | 206.0   | 197.1  |
| 80°   | 30.5    | 32.3    | 41.2    | 55.5    | 71.7    | 93.2    | 109.3   | 114.7   | 136.2   | 146.9   | 152.3  |
| 82.5° | 17.9    | 19.7    | 26.9    | 39.4    | 52.0    | 66.3    | 78.8    | 84.2    | 98.5    | 111.1   | 114.7  |
| 85°   | 9.0     | 10.8    | 16.1    | 25.1    | 34.0    | 41.2    | 39.4    | 37.6    | 37.6    | 35.8    | 37.6   |
| 87.5° | 3.6     | 3.6     | 5.4     | 5.4     | 5.4     | 7.2     | 9.0     | 9.0     | 9.0     | 10.8    | 10.8   |
| 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°    | 4190.8 | 4190.8 | 4190.8 | 4190.8 | 4190.8 | 4190.8 | 4190.8 | 4190.8 | 4190.8 | 4190.8 | 4190.8 |
| 2.5°  | 4196.1 | 4124.5 | 4058.2 | 3936.3 | 3803.8 | 3766.1 | 3612.0 | 3556.5 | 3517.1 | 3470.5 | 3456.2 |
| 5°    | 4217.6 | 4122.7 | 3909.5 | 3664.0 | 3468.7 | 3217.9 | 3053.0 | 2875.7 | 2746.7 | 2714.4 | 2705.5 |
| 7.5°  | 4262.4 | 4099.4 | 3732.1 | 3361.2 | 2961.7 | 2621.2 | 2361.4 | 2221.7 | 2098.1 | 2090.9 | 2078.4 |
| 10°   | 4312.6 | 4029.5 | 3538.6 | 2956.3 | 2445.7 | 2130.3 | 1974.4 | 1913.5 | 1883.1 | 1875.9 | 1872.3 |
| 12.5° | 4353.8 | 4015.2 | 3321.8 | 2562.1 | 2080.2 | 1890.2 | 1843.6 | 1838.3 | 1850.8 | 1854.4 | 1861.6 |
| 15°   | 4371.7 | 3957.8 | 3060.2 | 2209.2 | 1852.6 | 1782.7 | 1802.4 | 1823.9 | 1832.9 | 1856.2 | 1838.3 |
| 17.5° | 4405.8 | 3884.4 | 2737.7 | 1929.6 | 1725.4 | 1737.9 | 1772.0 | 1797.1 | 1811.4 | 1827.5 | 1804.2 |
| 20°   | 4423.7 | 3818.1 | 2434.9 | 1763.0 | 1680.6 | 1703.9 | 1750.5 | 1770.2 | 1788.1 | 1795.3 | 1768.4 |
| 22.5° | 4407.6 | 3681.9 | 2167.9 | 1628.6 | 1637.6 | 1668.1 | 1709.3 | 1730.8 | 1720.0 | 1691.4 | 1675.2 |
| 25°   | 4364.6 | 3490.2 | 1890.2 | 1542.6 | 1576.7 | 1630.4 | 1662.7 | 1646.6 | 1626.9 | 1610.7 | 1605.4 |
| 27.5° | 4362.8 | 3255.5 | 1689.6 | 1463.8 | 1524.7 | 1598.2 | 1587.4 | 1573.1 | 1582.1 | 1569.5 | 1555.2 |
| 30°   | 4371.7 | 3028.0 | 1524.7 | 1419.0 | 1487.1 | 1522.9 | 1535.5 | 1521.1 | 1531.9 | 1508.6 | 1515.8 |
| 32.5° | 4325.1 | 2805.8 | 1417.2 | 1367.1 | 1442.3 | 1440.5 | 1481.7 | 1492.5 | 1467.4 | 1419.0 | 1426.2 |
| 35°   | 4344.8 | 2626.6 | 1325.8 | 1343.8 | 1392.1 | 1392.1 | 1424.4 | 1411.9 | 1345.6 | 1316.9 | 1324.1 |
| 37.5° | 4481.0 | 2451.0 | 1281.1 | 1311.5 | 1343.8 | 1358.1 | 1347.4 | 1293.6 | 1277.5 | 1277.5 | 1281.1 |
| 40°   | 4610.0 | 2300.5 | 1254.2 | 1304.3 | 1299.0 | 1307.9 | 1229.1 | 1234.5 | 1234.5 | 1236.3 | 1227.3 |
| 42.5° | 4724.7 | 2198.4 | 1232.7 | 1261.3 | 1270.3 | 1223.7 | 1175.3 | 1170.0 | 1182.5 | 1180.7 | 1173.6 |
| 45°   | 4765.9 | 2114.2 | 1202.2 | 1213.0 | 1220.1 | 1143.1 | 1119.8 | 1109.1 | 1123.4 | 1128.8 | 1135.9 |
| 47.5° | 4608.2 | 2044.3 | 1168.2 | 1146.7 | 1132.3 | 1082.2 | 1051.7 | 1032.0 | 1049.9 | 1080.4 | 1087.6 |
| 50°   | 4405.8 | 1952.9 | 1114.4 | 1073.2 | 1042.8 | 1021.3 | 999.8  | 980.1  | 992.6  | 1014.1 | 1008.7 |
| 52.5° | 4106.6 | 1809.6 | 1046.3 | 1003.3 | 951.4  | 956.8  | 937.1  | 926.3  | 933.5  | 933.5  | 928.1  |
| 55°   | 3680.1 | 1487.1 | 931.7  | 901.2  | 858.2  | 872.6  | 876.1  | 861.8  | 847.5  | 860.0  | 849.3  |
| 57.5° | 2511.9 | 1049.9 | 831.3  | 831.3  | 788.3  | 808.1  | 806.3  | 772.2  | 738.2  | 741.8  | 734.6  |
| 60°   | 1453.1 | 836.7  | 766.8  | 759.7  | 714.9  | 731.0  | 734.6  | 711.3  | 659.3  | 662.9  | 655.8  |
| 62.5° | 826.0  | 714.9  | 670.1  | 659.3  | 650.4  | 664.7  | 664.7  | 634.3  | 589.5  | 593.0  | 585.9  |
| 65°   | 702.3  | 662.9  | 598.4  | 596.6  | 593.0  | 596.6  | 582.3  | 550.0  | 510.6  | 494.5  | 496.3  |
| 67.5° | 637.8  | 612.8  | 550.0  | 533.9  | 523.2  | 521.4  | 494.5  | 464.0  | 446.1  | 431.8  | 430.0  |
| 70°   | 559.0  | 539.3  | 492.7  | 471.2  | 460.5  | 435.4  | 408.5  | 388.8  | 363.7  | 356.5  | 363.7  |
| 72.5° | 442.5  | 440.8  | 422.8  | 399.5  | 376.3  | 356.5  | 333.3  | 306.4  | 283.1  | 277.7  | 265.2  |
| 75°   | 306.4  | 310.0  | 313.5  | 310.0  | 290.3  | 265.2  | 238.3  | 216.8  | 188.1  | 172.0  | 168.4  |
| 77.5° | 200.7  | 206.0  | 211.4  | 204.3  | 191.7  | 168.4  | 150.5  | 123.6  | 102.1  | 89.6   | 87.8   |
| 80°   | 146.9  | 154.1  | 157.7  | 152.3  | 138.0  | 120.0  | 100.3  | 78.8   | 62.7   | 52.0   | 52.0   |
| 82.5° | 112.9  | 120.0  | 123.6  | 114.7  | 100.3  | 86.0   | 71.7   | 55.5   | 43.0   | 34.0   | 32.3   |
| 85°   | 39.4   | 37.6   | 44.8   | 46.6   | 55.5   | 52.0   | 43.0   | 32.3   | 25.1   | 17.9   | 16.1   |
| 87.5° | 10.8   | 10.8   | 12.5   | 12.5   | 10.8   | 9.0    | 9.0    | 9.0    | 7.2    | 5.4    | 5.4    |
| 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)