

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: P459650

Luminaire Tested: **GAN-SA8A-AMB-U-SL2-HSS**

Issue Date: 1/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-AMB-U-SL2-HSS  
Description: GALLEON ROADWAY AND AREA LUMINAIRE  
(8) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6312 lumens  
Efficiency: N/A  
Efficacy: 39.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

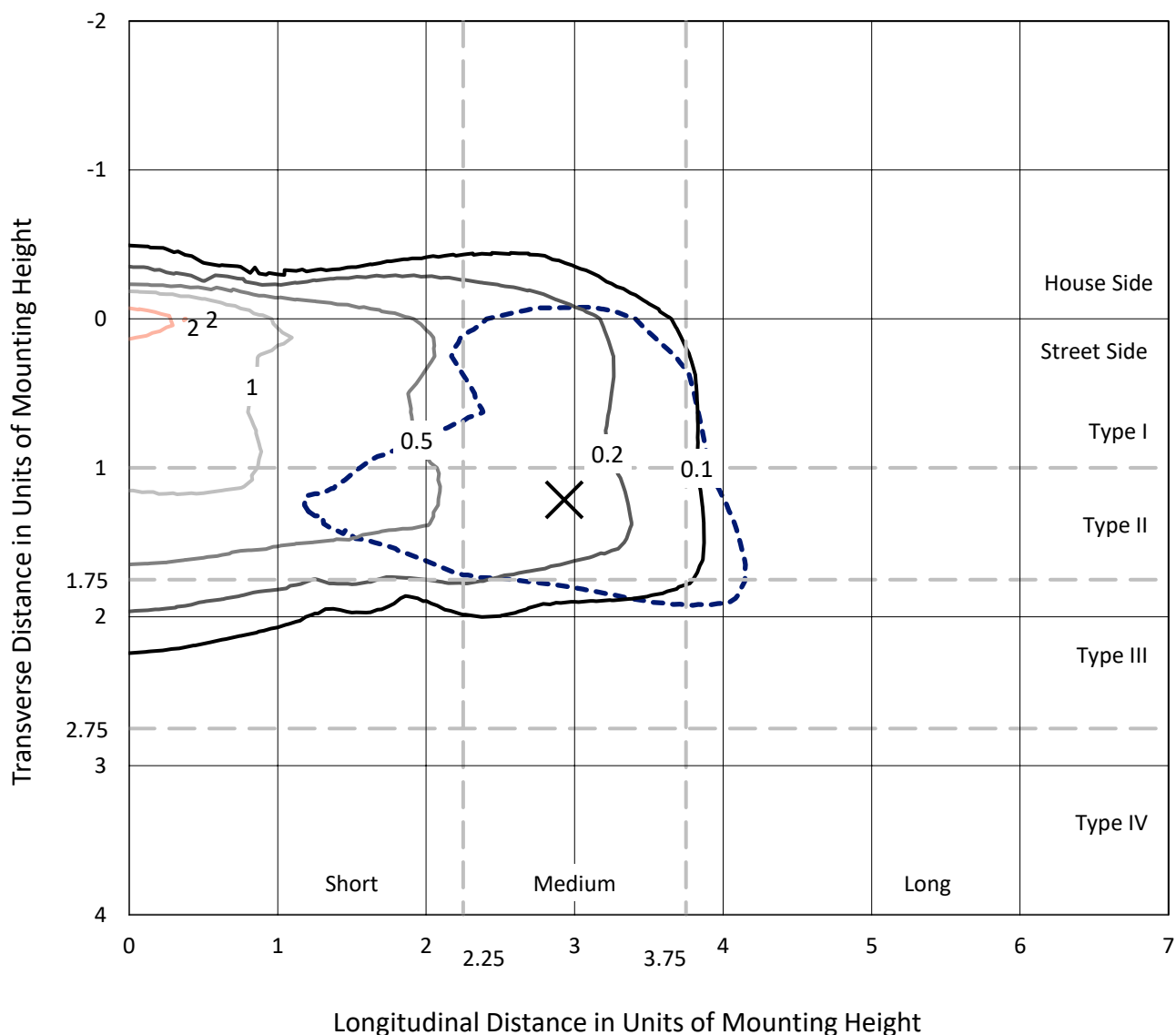
Input Watts (W): 158.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

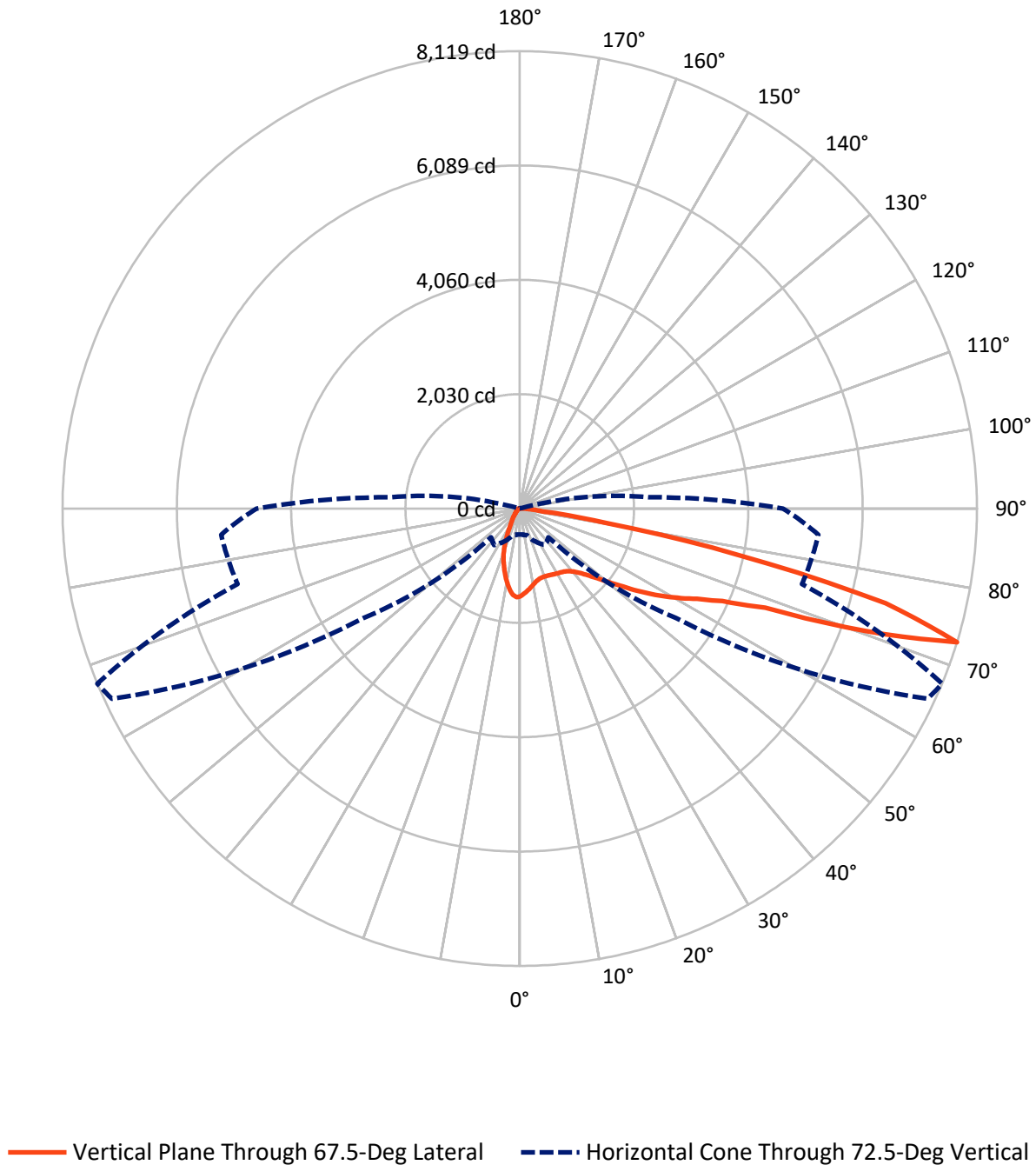
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
Type III - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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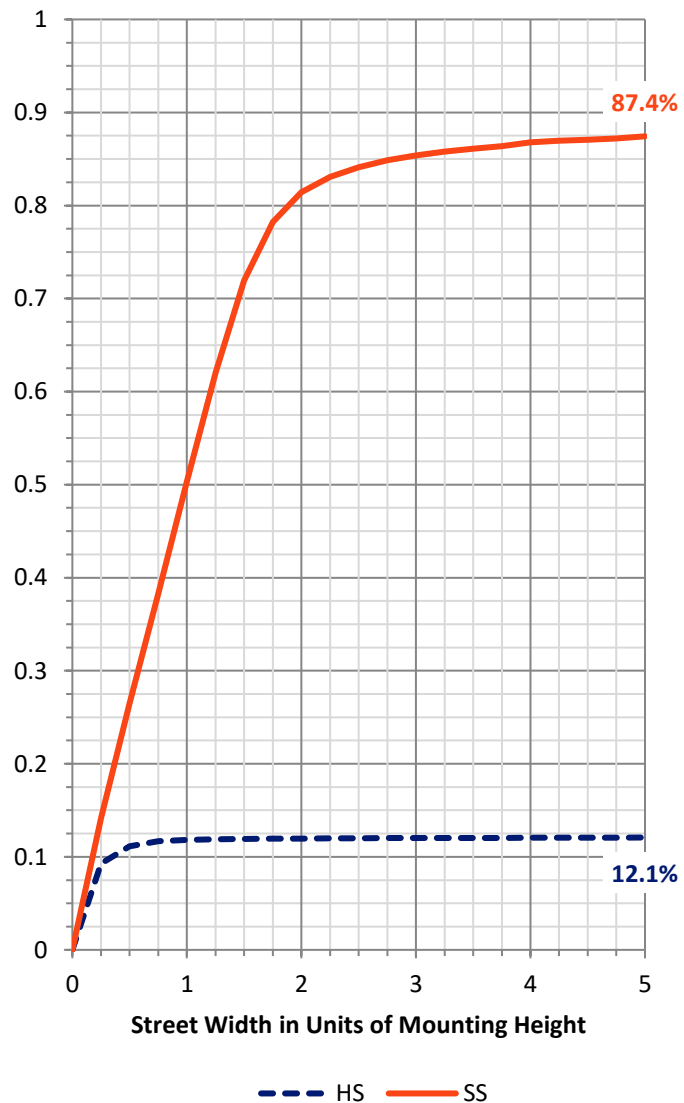
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 769.9    | 0.0    | 769.9  |
|                    | % Fixture | 12.2     | 0.0    | 12.2   |
| <b>Street Side</b> | Lumens    | 5542.1   | 0.0    | 5542.1 |
|                    | % Fixture | 87.8     | 0.0    | 87.8   |
| <b>Total</b>       | Lumens    | 6312.0   | 0.0    | 6312.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 128.8  | 2.0       |
| 10°-20°   | 271.4  | 4.3       |
| 20°-30°   | 383.3  | 6.1       |
| 30°-40°   | 549.1  | 8.7       |
| 40°-50°   | 828.4  | 13.1      |
| 50°-60°   | 1328.1 | 21.0      |
| 60°-70°   | 1570.0 | 24.9      |
| 70°-80°   | 1146.9 | 18.2      |
| 80°-90°   | 106.0  | 1.7       |
| 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°    | 6312.0 | 100.0     |
| 0°-180°   | 6312.0 | 100.0     |

**Coefficient of Utilization**



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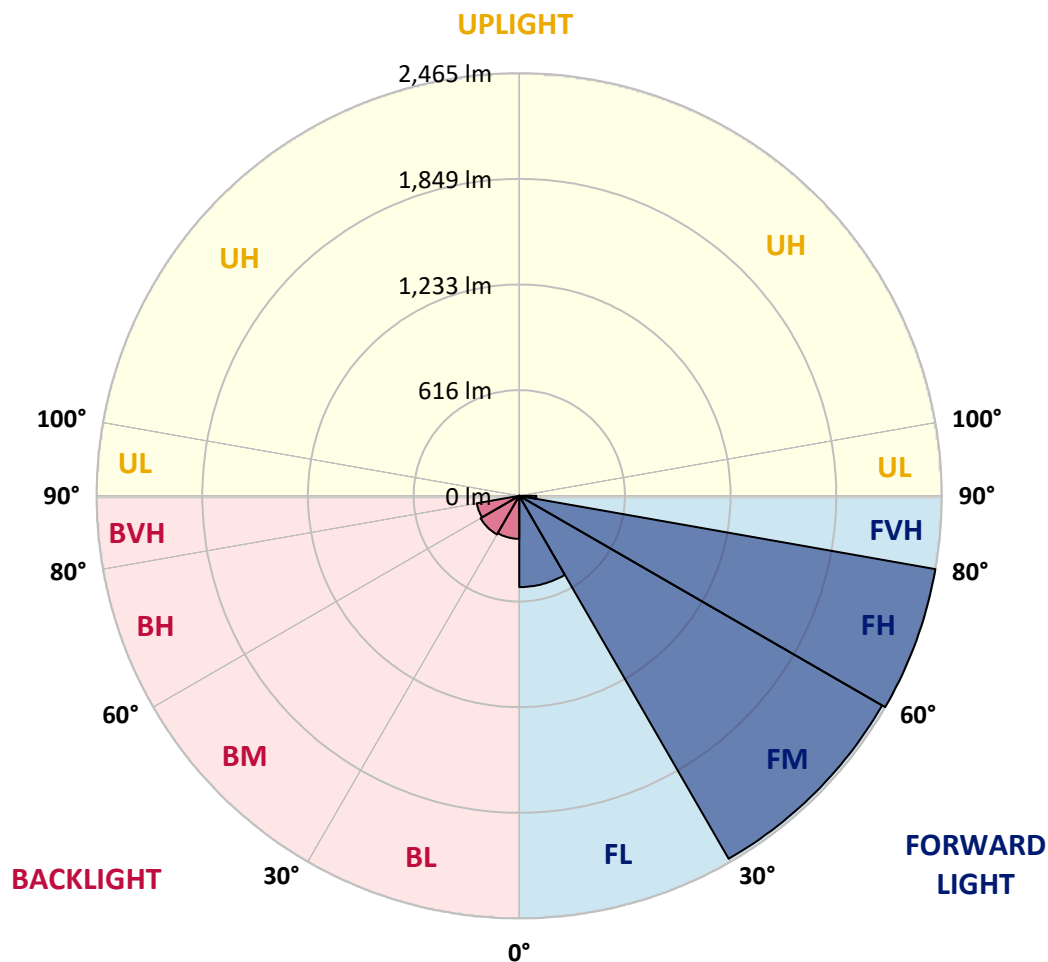
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 532.4  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 2444.9 | 38.7      |                         |      |         |
| FH   | (60°-80°)   | 2465.4 | 39.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 99.4   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 251.0  | 4.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 260.7  | 4.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 251.5  | 4.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 6.6    | 0.1       |                         |      | 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 Medium



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67.5°  | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1559.9 | 1559.9 | 1559.9 | 1559.9 | 1559.9 | 1559.9 | 1559.9 | 1559.9 | 1559.9 | 1559.9 | 1559.9 |
| 2.5°  | 1462.6 | 1469.6 | 1469.6 | 1480.0 | 1483.5 | 1486.9 | 1507.8 | 1514.7 | 1511.3 | 1532.1 | 1546.0 |
| 5°    | 1365.3 | 1365.3 | 1372.3 | 1389.7 | 1403.6 | 1414.0 | 1438.3 | 1459.1 | 1462.6 | 1486.9 | 1525.2 |
| 7.5°  | 1285.4 | 1292.4 | 1292.4 | 1302.8 | 1323.7 | 1341.0 | 1372.3 | 1407.0 | 1414.0 | 1445.2 | 1490.4 |
| 10°   | 1222.9 | 1219.4 | 1229.9 | 1240.3 | 1257.6 | 1275.0 | 1309.8 | 1348.0 | 1361.9 | 1396.6 | 1448.7 |
| 12.5° | 1163.8 | 1167.3 | 1170.8 | 1188.2 | 1209.0 | 1226.4 | 1261.1 | 1306.3 | 1320.2 | 1365.3 | 1427.9 |
| 15°   | 1129.1 | 1129.1 | 1132.6 | 1143.0 | 1163.8 | 1188.2 | 1229.9 | 1278.5 | 1295.9 | 1348.0 | 1420.9 |
| 17.5° | 1118.7 | 1118.7 | 1115.2 | 1118.7 | 1136.0 | 1160.4 | 1209.0 | 1268.1 | 1285.4 | 1341.0 | 1431.4 |
| 20°   | 1122.2 | 1122.2 | 1115.2 | 1111.7 | 1122.2 | 1146.5 | 1202.1 | 1264.6 | 1285.4 | 1351.4 | 1459.1 |
| 22.5° | 1143.0 | 1139.5 | 1132.6 | 1122.2 | 1122.2 | 1146.5 | 1205.5 | 1271.5 | 1292.4 | 1365.3 | 1483.5 |
| 25°   | 1195.1 | 1181.2 | 1174.3 | 1153.4 | 1139.5 | 1149.9 | 1209.0 | 1282.0 | 1302.8 | 1375.8 | 1518.2 |
| 27.5° | 1243.7 | 1240.3 | 1240.3 | 1219.4 | 1174.3 | 1163.8 | 1222.9 | 1299.3 | 1316.7 | 1389.7 | 1563.4 |
| 30°   | 1327.1 | 1320.2 | 1320.2 | 1295.9 | 1240.3 | 1191.6 | 1236.8 | 1313.2 | 1334.1 | 1400.1 | 1608.5 |
| 32.5° | 1431.4 | 1434.8 | 1427.9 | 1396.6 | 1327.1 | 1243.7 | 1261.1 | 1330.6 | 1348.0 | 1407.0 | 1653.7 |
| 35°   | 1546.0 | 1549.5 | 1566.8 | 1532.1 | 1441.8 | 1323.7 | 1299.3 | 1361.9 | 1372.3 | 1420.9 | 1688.4 |
| 37.5° | 1639.8 | 1639.8 | 1685.0 | 1691.9 | 1580.7 | 1420.9 | 1361.9 | 1414.0 | 1410.5 | 1438.3 | 1723.2 |
| 40°   | 1744.0 | 1744.0 | 1796.1 | 1837.8 | 1757.9 | 1552.9 | 1441.8 | 1476.5 | 1469.6 | 1476.5 | 1771.8 |
| 42.5° | 1855.2 | 1862.1 | 1917.7 | 1990.7 | 1949.0 | 1723.2 | 1556.4 | 1573.8 | 1559.9 | 1539.1 | 1823.9 |
| 45°   | 1962.9 | 1980.3 | 2056.7 | 2154.0 | 2150.5 | 1924.7 | 1705.8 | 1709.3 | 1685.0 | 1643.3 | 1931.6 |
| 47.5° | 2088.0 | 2101.9 | 2209.6 | 2331.2 | 2362.4 | 2154.0 | 1896.9 | 1883.0 | 1851.7 | 1785.7 | 2077.5 |
| 50°   | 2299.9 | 2306.8 | 2383.3 | 2525.7 | 2584.8 | 2407.6 | 2112.3 | 2088.0 | 2053.2 | 1969.8 | 2275.6 |
| 52.5° | 2553.5 | 2550.0 | 2584.8 | 2734.2 | 2894.0 | 2702.9 | 2393.7 | 2359.0 | 2303.4 | 2195.7 | 2518.8 |
| 55°   | 2664.7 | 2675.1 | 2727.2 | 2907.9 | 3217.1 | 3133.7 | 2709.8 | 2661.2 | 2602.1 | 2463.2 | 2768.9 |
| 57.5° | 2470.1 | 2470.1 | 2574.3 | 2859.2 | 3397.7 | 3703.4 | 3064.2 | 2987.8 | 2914.8 | 2737.6 | 3053.8 |
| 60°   | 1976.8 | 1973.3 | 2098.4 | 2442.3 | 3262.2 | 4200.3 | 3557.5 | 3328.2 | 3217.1 | 2980.8 | 3338.7 |
| 62.5° | 1386.2 | 1358.4 | 1414.0 | 1702.3 | 2671.6 | 4207.2 | 4478.2 | 3682.6 | 3533.2 | 3231.0 | 3640.9 |
| 65°   | 993.6  | 976.2  | 986.7  | 1066.6 | 1532.1 | 3804.2 | 5496.1 | 4221.1 | 3953.6 | 3495.0 | 4005.7 |
| 67.5° | 813.0  | 792.1  | 788.6  | 885.9  | 882.4  | 2518.8 | 5801.8 | 5284.2 | 4700.5 | 3880.6 | 4419.1 |
| 70°   | 649.7  | 639.2  | 635.8  | 774.7  | 816.4  | 819.9  | 5409.3 | 7556.3 | 6521.0 | 4453.9 | 4971.5 |
| 72.5° | 462.1  | 462.1  | 489.9  | 642.7  | 792.1  | 719.2  | 3383.8 | 7990.6 | 8119.1 | 5186.9 | 5322.4 |
| 75°   | 277.9  | 274.5  | 343.9  | 510.7  | 764.3  | 694.8  | 1045.7 | 6593.9 | 6712.1 | 4856.9 | 4116.9 |
| 77.5° | 132.0  | 132.0  | 191.1  | 343.9  | 677.5  | 653.1  | 597.6  | 3943.2 | 3971.0 | 2949.6 | 2088.0 |
| 80°   | 52.1   | 52.1   | 83.4   | 211.9  | 514.2  | 646.2  | 555.9  | 1625.9 | 1566.8 | 813.0  | 288.4  |
| 82.5° | 20.8   | 20.8   | 34.7   | 118.1  | 319.6  | 531.5  | 493.3  | 538.5  | 403.0  | 93.8   | 76.4   |
| 85°   | 3.5    | 6.9    | 13.9   | 69.5   | 180.7  | 281.4  | 399.5  | 333.5  | 211.9  | 55.6   | 55.6   |
| 87.5° | 0.0    | 3.5    | 6.9    | 20.8   | 52.1   | 118.1  | 201.5  | 152.9  | 97.3   | 17.4   | 24.3   |
| 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°    | 1559.9 | 1559.9 | 1559.9 | 1559.9 | 1559.9 | 1559.9 | 1559.9 | 1559.9 | 1559.9 | 1559.9 | 1559.9 |
| 2.5°  | 1549.5 | 1556.4 | 1570.3 | 1577.3 | 1580.7 | 1566.8 | 1566.8 | 1552.9 | 1549.5 | 1549.5 | 1549.5 |
| 5°    | 1532.1 | 1546.0 | 1556.4 | 1532.1 | 1493.9 | 1445.2 | 1389.7 | 1354.9 | 1320.2 | 1327.1 | 1313.2 |
| 7.5°  | 1511.3 | 1528.6 | 1514.7 | 1434.8 | 1337.5 | 1247.2 | 1149.9 | 1094.4 | 1028.3 | 1021.4 | 1004.0 |
| 10°   | 1480.0 | 1497.4 | 1445.2 | 1306.3 | 1156.9 | 1024.9 | 882.4  | 795.6  | 726.1  | 670.5  | 656.6  |
| 12.5° | 1473.0 | 1483.5 | 1361.9 | 1170.8 | 976.2  | 788.6  | 604.5  | 441.2  | 343.9  | 295.3  | 295.3  |
| 15°   | 1476.5 | 1476.5 | 1285.4 | 1035.3 | 781.7  | 521.1  | 291.8  | 211.9  | 177.2  | 173.7  | 170.2  |
| 17.5° | 1493.9 | 1473.0 | 1209.0 | 903.3  | 573.2  | 271.0  | 173.7  | 159.8  | 152.9  | 152.9  | 152.9  |
| 20°   | 1525.2 | 1473.0 | 1143.0 | 764.3  | 361.3  | 170.2  | 149.4  | 142.4  | 139.0  | 135.5  | 135.5  |
| 22.5° | 1556.4 | 1459.1 | 1059.6 | 604.5  | 208.4  | 142.4  | 132.0  | 128.5  | 121.6  | 118.1  | 118.1  |
| 25°   | 1591.2 | 1445.2 | 979.7  | 434.3  | 145.9  | 125.1  | 114.6  | 107.7  | 100.8  | 97.3   | 97.3   |
| 27.5° | 1622.4 | 1431.4 | 885.9  | 274.5  | 128.5  | 111.2  | 100.8  | 90.3   | 79.9   | 76.4   | 76.4   |
| 30°   | 1643.3 | 1407.0 | 795.6  | 173.7  | 114.6  | 100.8  | 86.9   | 73.0   | 62.5   | 59.1   | 59.1   |
| 32.5° | 1646.7 | 1375.8 | 684.4  | 128.5  | 104.2  | 86.9   | 69.5   | 59.1   | 52.1   | 48.6   | 48.6   |
| 35°   | 1636.3 | 1337.5 | 562.8  | 114.6  | 93.8   | 76.4   | 59.1   | 48.6   | 41.7   | 41.7   | 41.7   |
| 37.5° | 1622.4 | 1299.3 | 437.7  | 104.2  | 83.4   | 66.0   | 48.6   | 41.7   | 38.2   | 34.7   | 34.7   |
| 40°   | 1619.0 | 1261.1 | 291.8  | 97.3   | 76.4   | 55.6   | 41.7   | 34.7   | 31.3   | 27.8   | 27.8   |
| 42.5° | 1629.4 | 1233.3 | 205.0  | 90.3   | 66.0   | 48.6   | 38.2   | 31.3   | 24.3   | 24.3   | 20.8   |
| 45°   | 1681.5 | 1226.4 | 149.4  | 83.4   | 59.1   | 41.7   | 31.3   | 24.3   | 20.8   | 17.4   | 17.4   |
| 47.5° | 1768.3 | 1240.3 | 121.6  | 76.4   | 52.1   | 34.7   | 27.8   | 20.8   | 17.4   | 13.9   | 13.9   |
| 50°   | 1893.4 | 1292.4 | 111.2  | 69.5   | 41.7   | 31.3   | 20.8   | 17.4   | 13.9   | 13.9   | 13.9   |
| 52.5° | 2088.0 | 1375.8 | 104.2  | 62.5   | 34.7   | 24.3   | 17.4   | 13.9   | 10.4   | 10.4   | 10.4   |
| 55°   | 2296.4 | 1473.0 | 100.8  | 55.6   | 31.3   | 20.8   | 13.9   | 10.4   | 10.4   | 6.9    | 6.9    |
| 57.5° | 2536.1 | 1601.6 | 93.8   | 48.6   | 27.8   | 20.8   | 13.9   | 10.4   | 6.9    | 6.9    | 6.9    |
| 60°   | 2838.4 | 1775.3 | 83.4   | 41.7   | 24.3   | 17.4   | 10.4   | 6.9    | 6.9    | 6.9    | 6.9    |
| 62.5° | 3151.1 | 1955.9 | 73.0   | 34.7   | 20.8   | 13.9   | 10.4   | 6.9    | 6.9    | 6.9    | 6.9    |
| 65°   | 3533.2 | 2164.4 | 62.5   | 27.8   | 17.4   | 13.9   | 10.4   | 6.9    | 6.9    | 3.5    | 3.5    |
| 67.5° | 3995.3 | 2376.3 | 48.6   | 24.3   | 17.4   | 10.4   | 10.4   | 6.9    | 6.9    | 3.5    | 3.5    |
| 70°   | 4585.9 | 2647.3 | 41.7   | 20.8   | 13.9   | 10.4   | 10.4   | 6.9    | 6.9    | 3.5    | 3.5    |
| 72.5° | 4676.2 | 2286.0 | 34.7   | 20.8   | 13.9   | 10.4   | 10.4   | 6.9    | 6.9    | 3.5    | 3.5    |
| 75°   | 3196.2 | 1090.9 | 31.3   | 17.4   | 13.9   | 13.9   | 10.4   | 6.9    | 6.9    | 3.5    | 3.5    |
| 77.5° | 1393.1 | 257.1  | 27.8   | 17.4   | 13.9   | 13.9   | 13.9   | 10.4   | 6.9    | 3.5    | 3.5    |
| 80°   | 163.3  | 48.6   | 24.3   | 17.4   | 13.9   | 17.4   | 13.9   | 10.4   | 6.9    | 3.5    | 3.5    |
| 82.5° | 66.0   | 31.3   | 24.3   | 20.8   | 17.4   | 13.9   | 13.9   | 10.4   | 6.9    | 3.5    | 3.5    |
| 85°   | 48.6   | 24.3   | 24.3   | 24.3   | 17.4   | 10.4   | 10.4   | 6.9    | 6.9    | 3.5    | 3.5    |
| 87.5° | 24.3   | 10.4   | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 3.5    | 3.5    | 3.5    | 3.5    |
| 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)