

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: P526827

Luminaire Tested: **GLAN-SA1D-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526827  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1D-740-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4569 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

Input Watts (W): 65  
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



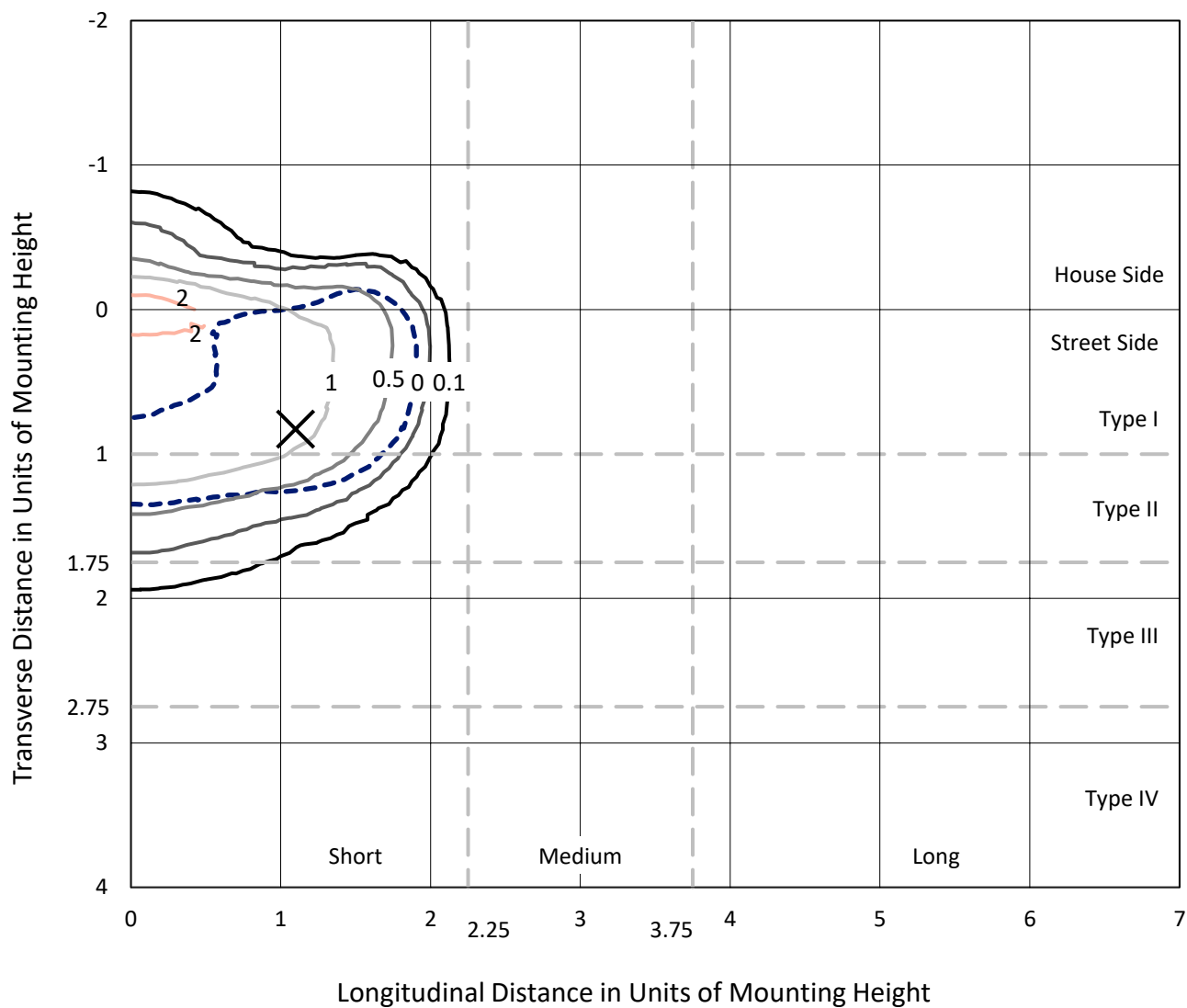
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

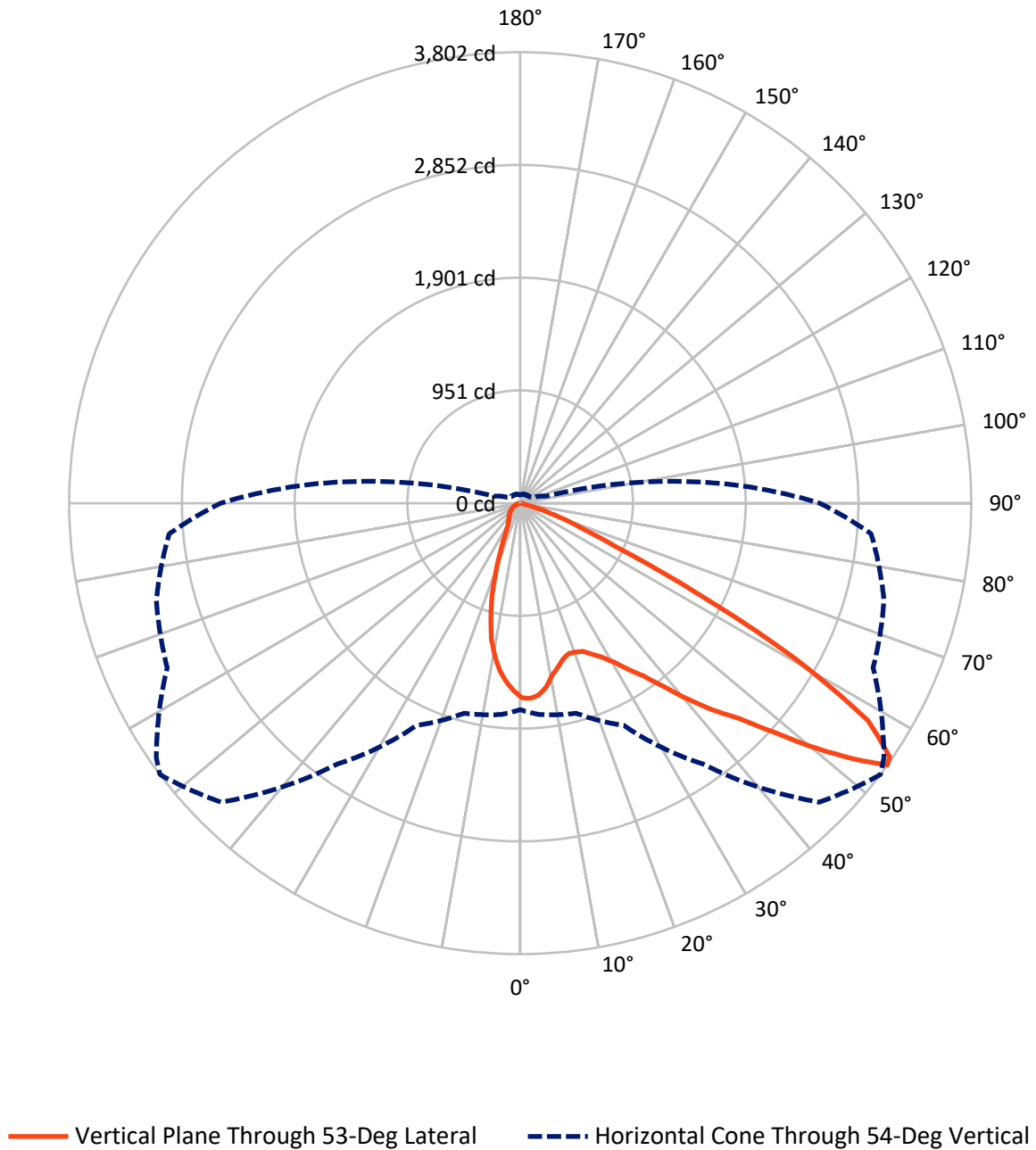


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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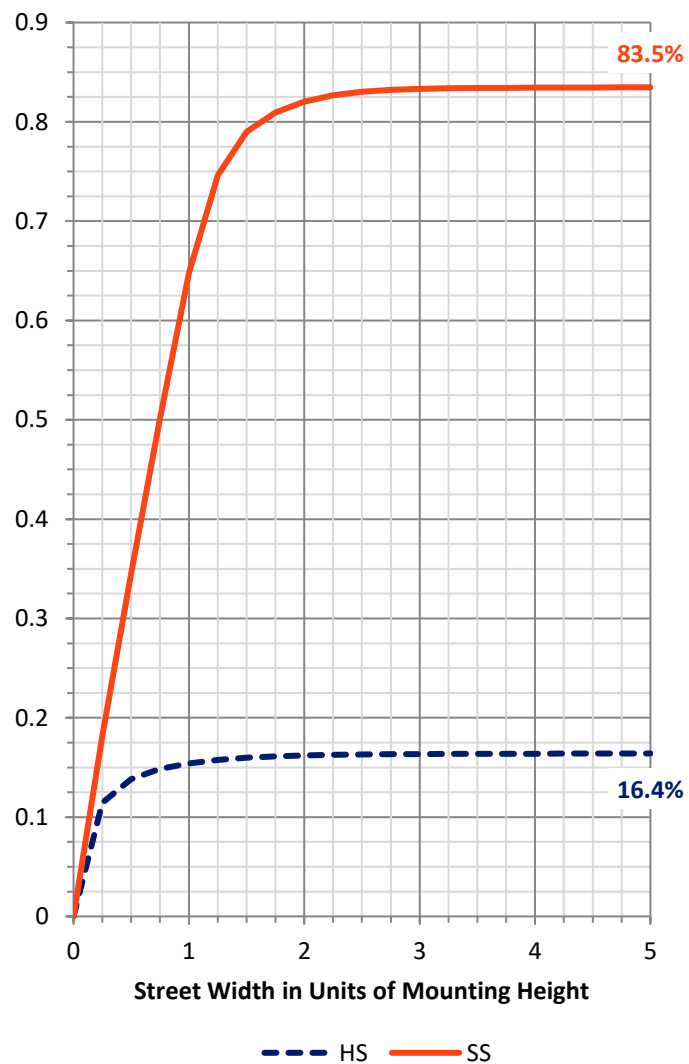
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 756.0    | 0.0    | 756.0  |
|                    | % Fixture | 16.5     | 0.0    | 16.5   |
| <b>Street Side</b> | Lumens    | 3813.1   | 0.0    | 3813.1 |
|                    | % Fixture | 83.5     | 0.0    | 83.5   |
| <b>Total</b>       | Lumens    | 4569.0   | 0.0    | 4569.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 140.8  | 3.1       |
| 10°-20°   | 322.8  | 7.1       |
| 20°-30°   | 458.8  | 10.0      |
| 30°-40°   | 708.0  | 15.5      |
| 40°-50°   | 1110.1 | 24.3      |
| 50°-60°   | 1289.6 | 28.2      |
| 60°-70°   | 487.3  | 10.7      |
| 70°-80°   | 46.3   | 1.0       |
| 80°-90°   | 5.2    | 0.1       |
| 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°    | 4569.0 | 100.0     |
| 0°-180°   | 4569.0 | 100.0     |

**Coefficient of Utilization**



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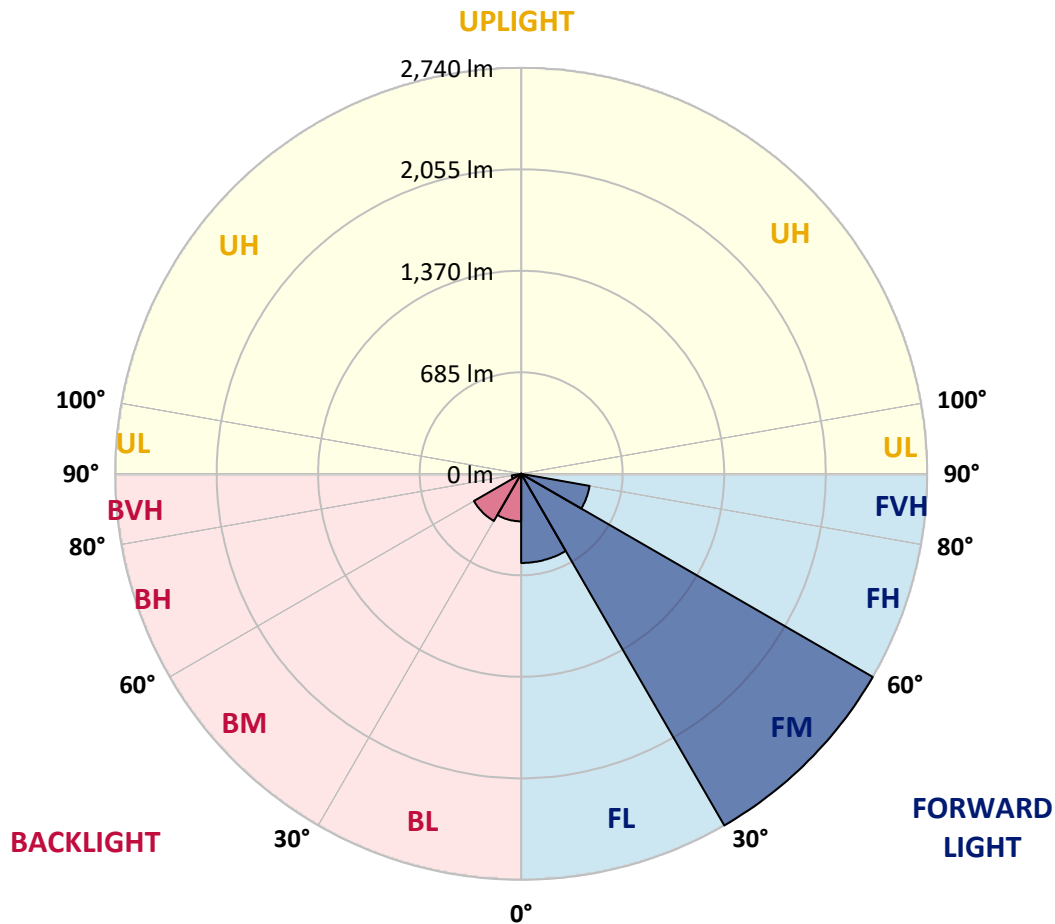
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 601.6  | 13.2      |                         |      |        |
| FM   | (30°-60°)   | 2739.9 | 60.0      |                         |      |        |
| FH   | (60°-80°)   | 468.8  | 10.3      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 2.7    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 320.8  | 7.0       | B1/500                  |      |        |
| BM   | (30°-60°)   | 367.9  | 8.1       | B1/1000                 |      |        |
| BH   | (60°-80°)   | 64.8   | 1.4       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 2.5    | 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-G0**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 53°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1641.1 | 1641.1 | 1641.1 | 1641.1 | 1641.1 | 1641.1 | 1641.1 | 1641.1 | 1641.1 | 1641.1 | 1641.1 |
| 2.5°  | 1632.6 | 1618.1 | 1632.6 | 1634.3 | 1644.5 | 1653.9 | 1647.9 | 1661.5 | 1653.9 | 1645.4 | 1642.8 |
| 5°    | 1500.7 | 1520.2 | 1521.1 | 1551.7 | 1544.9 | 1601.1 | 1625.8 | 1619.0 | 1660.7 | 1658.1 | 1652.2 |
| 7.5°  | 1382.3 | 1374.7 | 1384.9 | 1420.6 | 1465.8 | 1530.5 | 1566.2 | 1565.4 | 1624.9 | 1667.5 | 1663.2 |
| 10°   | 1272.5 | 1271.7 | 1293.0 | 1321.1 | 1359.4 | 1427.5 | 1476.8 | 1501.5 | 1594.3 | 1659.0 | 1668.3 |
| 12.5° | 1198.5 | 1195.1 | 1218.1 | 1241.0 | 1301.5 | 1354.3 | 1417.2 | 1429.2 | 1535.6 | 1629.2 | 1644.5 |
| 15°   | 1150.0 | 1157.6 | 1159.3 | 1203.6 | 1241.9 | 1311.7 | 1361.1 | 1385.7 | 1508.3 | 1605.4 | 1664.1 |
| 17.5° | 1141.5 | 1151.7 | 1152.5 | 1189.1 | 1230.0 | 1288.7 | 1332.1 | 1365.3 | 1485.3 | 1617.3 | 1664.9 |
| 20°   | 1158.5 | 1152.5 | 1157.6 | 1180.6 | 1220.6 | 1276.8 | 1339.8 | 1350.8 | 1477.7 | 1623.2 | 1674.3 |
| 22.5° | 1207.0 | 1205.3 | 1192.5 | 1211.3 | 1239.3 | 1298.1 | 1357.7 | 1374.7 | 1499.8 | 1653.9 | 1682.0 |
| 25°   | 1260.6 | 1270.0 | 1258.1 | 1255.5 | 1275.1 | 1333.0 | 1412.1 | 1434.3 | 1573.9 | 1709.2 | 1705.8 |
| 27.5° | 1361.1 | 1351.7 | 1351.7 | 1339.8 | 1334.7 | 1362.8 | 1470.9 | 1507.5 | 1656.4 | 1780.7 | 1733.0 |
| 30°   | 1457.2 | 1467.5 | 1459.8 | 1464.1 | 1430.0 | 1427.5 | 1554.3 | 1599.4 | 1802.8 | 1889.7 | 1790.9 |
| 32.5° | 1609.6 | 1596.0 | 1608.8 | 1597.7 | 1552.6 | 1506.6 | 1667.5 | 1714.3 | 1979.9 | 2014.8 | 1877.7 |
| 35°   | 1736.4 | 1730.5 | 1785.0 | 1783.3 | 1710.1 | 1664.9 | 1787.5 | 1857.3 | 2103.3 | 2164.6 | 1979.9 |
| 37.5° | 1916.9 | 1905.8 | 1968.0 | 1997.8 | 1932.2 | 1865.0 | 1959.5 | 2040.3 | 2218.2 | 2284.6 | 2084.6 |
| 40°   | 2102.5 | 2130.5 | 2214.0 | 2263.3 | 2193.5 | 2104.2 | 2169.7 | 2194.4 | 2294.8 | 2362.9 | 2156.1 |
| 42.5° | 2337.4 | 2378.2 | 2463.4 | 2505.9 | 2500.0 | 2402.9 | 2383.4 | 2382.5 | 2350.2 | 2340.8 | 2208.9 |
| 45°   | 2563.0 | 2547.6 | 2678.7 | 2771.5 | 2846.4 | 2818.3 | 2589.3 | 2563.8 | 2437.8 | 2374.0 | 2222.5 |
| 47.5° | 2661.7 | 2656.6 | 2746.0 | 2911.1 | 3166.5 | 3201.4 | 2889.0 | 2790.2 | 2585.9 | 2513.6 | 2296.5 |
| 50°   | 2534.0 | 2560.4 | 2648.9 | 2831.9 | 3223.5 | 3489.9 | 3256.7 | 3123.9 | 2758.7 | 2683.8 | 2471.9 |
| 52.5° | 2116.9 | 2134.8 | 2219.1 | 2451.4 | 3029.4 | 3660.1 | 3609.1 | 3532.5 | 3076.2 | 2952.0 | 2777.5 |
| 54°   | 1740.7 | 1788.4 | 1834.3 | 2067.6 | 2683.8 | 3565.7 | 3802.3 | 3743.6 | 3283.1 | 3175.0 | 2969.8 |
| 55°   | 1516.0 | 1544.1 | 1577.3 | 1809.6 | 2444.6 | 3405.6 | 3780.2 | 3785.3 | 3421.8 | 3244.8 | 3099.2 |
| 57.5° | 1107.4 | 1127.0 | 1092.9 | 1195.9 | 1678.6 | 2765.5 | 3457.6 | 3595.5 | 3609.1 | 3349.5 | 3178.4 |
| 60°   | 846.1  | 854.6  | 816.3  | 832.5  | 1043.6 | 1898.2 | 2674.5 | 2840.4 | 3255.8 | 2927.3 | 2692.3 |
| 62.5° | 656.3  | 658.0  | 657.1  | 685.2  | 719.3  | 1116.8 | 1672.6 | 1819.9 | 2244.6 | 2078.6 | 1828.4 |
| 65°   | 483.5  | 475.8  | 489.4  | 574.6  | 613.7  | 702.2  | 881.0  | 988.2  | 1219.8 | 1029.9 | 736.3  |
| 67.5° | 313.2  | 315.8  | 329.4  | 427.3  | 526.0  | 538.8  | 542.2  | 533.7  | 534.6  | 294.5  | 184.7  |
| 70°   | 188.1  | 192.4  | 188.1  | 241.7  | 376.2  | 386.4  | 353.2  | 344.7  | 269.0  | 69.8   | 68.9   |
| 72.5° | 111.5  | 105.5  | 94.5   | 103.8  | 156.6  | 187.3  | 168.5  | 167.7  | 105.5  | 40.9   | 40.9   |
| 75°   | 46.8   | 42.6   | 34.9   | 31.5   | 41.7   | 40.0   | 40.0   | 35.8   | 28.1   | 27.2   | 25.5   |
| 77.5° | 9.4    | 9.4    | 6.8    | 7.7    | 10.2   | 11.9   | 14.5   | 14.5   | 17.0   | 17.0   | 16.2   |
| 80°   | 0.0    | 0.9    | 2.6    | 5.1    | 7.7    | 11.1   | 12.8   | 12.8   | 14.5   | 14.5   | 11.9   |
| 82.5° | 0.0    | 0.9    | 2.6    | 5.1    | 6.8    | 10.2   | 12.8   | 12.8   | 14.5   | 15.3   | 12.8   |
| 85°   | 0.0    | 0.9    | 2.6    | 4.3    | 6.8    | 8.5    | 8.5    | 7.7    | 6.0    | 5.1    | 3.4    |
| 87.5° | 0.0    | 0.0    | 0.9    | 1.7    | 0.9    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 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°    | 1641.1 | 1641.1 | 1641.1 | 1641.1 | 1641.1 | 1641.1 | 1641.1 | 1641.1 | 1641.1 | 1641.1 | 1641.1 |
| 2.5°  | 1648.8 | 1647.9 | 1627.5 | 1594.3 | 1586.6 | 1558.5 | 1555.1 | 1538.1 | 1547.5 | 1516.0 | 1512.6 |
| 5°    | 1635.1 | 1624.9 | 1600.3 | 1579.0 | 1516.8 | 1472.6 | 1437.7 | 1395.1 | 1370.4 | 1374.7 | 1358.5 |
| 7.5°  | 1654.7 | 1628.3 | 1584.9 | 1510.9 | 1435.1 | 1357.7 | 1316.0 | 1229.1 | 1197.6 | 1150.8 | 1144.0 |
| 10°   | 1634.3 | 1614.7 | 1547.5 | 1424.9 | 1320.2 | 1208.7 | 1110.8 | 1014.6 | 941.4  | 909.9  | 903.1  |
| 12.5° | 1632.6 | 1598.5 | 1486.2 | 1350.0 | 1198.5 | 1038.5 | 896.3  | 776.3  | 703.9  | 663.1  | 653.7  |
| 15°   | 1606.2 | 1565.4 | 1417.2 | 1234.2 | 1024.8 | 825.7  | 670.7  | 555.0  | 499.7  | 475.8  | 482.6  |
| 17.5° | 1608.8 | 1547.5 | 1348.3 | 1111.7 | 853.8  | 606.1  | 457.9  | 398.4  | 383.9  | 389.8  | 389.8  |
| 20°   | 1606.2 | 1507.5 | 1264.9 | 970.4  | 653.7  | 420.5  | 336.2  | 314.9  | 324.3  | 343.0  | 338.8  |
| 22.5° | 1592.6 | 1488.7 | 1188.3 | 821.4  | 480.9  | 311.5  | 269.8  | 270.7  | 285.2  | 308.1  | 313.2  |
| 25°   | 1602.8 | 1447.0 | 1091.2 | 670.7  | 350.7  | 248.5  | 234.1  | 240.0  | 255.4  | 272.4  | 275.8  |
| 27.5° | 1595.1 | 1417.2 | 989.9  | 520.9  | 256.2  | 213.7  | 212.8  | 219.6  | 226.4  | 239.2  | 239.2  |
| 30°   | 1603.7 | 1390.0 | 890.4  | 387.3  | 211.1  | 195.8  | 192.4  | 197.5  | 204.3  | 206.8  | 206.0  |
| 32.5° | 1635.1 | 1369.6 | 775.4  | 289.4  | 186.4  | 178.8  | 178.8  | 178.8  | 177.9  | 181.3  | 182.2  |
| 35°   | 1704.1 | 1373.0 | 674.1  | 223.9  | 170.2  | 164.3  | 161.7  | 158.3  | 156.6  | 158.3  | 159.2  |
| 37.5° | 1779.0 | 1371.3 | 569.5  | 190.7  | 158.3  | 153.2  | 147.3  | 142.1  | 141.3  | 143.0  | 140.4  |
| 40°   | 1812.2 | 1387.5 | 472.4  | 171.1  | 147.3  | 141.3  | 131.9  | 127.7  | 128.5  | 130.2  | 128.5  |
| 42.5° | 1857.3 | 1392.6 | 409.4  | 155.8  | 137.0  | 127.7  | 121.7  | 116.6  | 115.8  | 118.3  | 117.5  |
| 45°   | 1856.5 | 1363.6 | 343.0  | 147.3  | 127.7  | 117.5  | 109.8  | 105.5  | 105.5  | 107.3  | 108.1  |
| 47.5° | 1910.9 | 1359.4 | 294.5  | 139.6  | 120.9  | 110.7  | 101.3  | 97.9   | 97.0   | 97.0   | 95.3   |
| 50°   | 2037.8 | 1418.9 | 257.1  | 131.1  | 112.4  | 103.0  | 95.3   | 91.1   | 87.7   | 86.0   | 85.1   |
| 52.5° | 2285.5 | 1604.5 | 228.1  | 120.9  | 103.0  | 95.3   | 88.5   | 85.1   | 80.9   | 76.6   | 75.8   |
| 54°   | 2525.5 | 1796.0 | 226.4  | 112.4  | 95.3   | 90.2   | 84.3   | 82.6   | 77.5   | 71.5   | 69.8   |
| 55°   | 2633.6 | 1907.5 | 232.4  | 105.5  | 90.2   | 86.8   | 81.7   | 80.0   | 74.9   | 68.1   | 67.2   |
| 57.5° | 2723.0 | 1950.9 | 229.0  | 87.7   | 81.7   | 80.9   | 76.6   | 74.1   | 68.1   | 58.7   | 57.0   |
| 60°   | 2191.8 | 1475.1 | 164.3  | 77.5   | 74.9   | 73.2   | 69.8   | 68.1   | 60.4   | 50.2   | 49.4   |
| 62.5° | 1384.9 | 848.6  | 104.7  | 68.1   | 65.5   | 63.0   | 58.7   | 57.0   | 50.2   | 40.0   | 37.5   |
| 65°   | 589.9  | 351.5  | 70.6   | 60.4   | 56.2   | 51.9   | 48.5   | 46.0   | 40.0   | 29.8   | 28.9   |
| 67.5° | 153.2  | 125.1  | 58.7   | 52.8   | 46.8   | 40.9   | 38.3   | 34.0   | 27.2   | 20.4   | 19.6   |
| 70°   | 68.9   | 63.0   | 49.4   | 44.3   | 37.5   | 31.5   | 28.1   | 23.8   | 17.9   | 13.6   | 12.8   |
| 72.5° | 40.9   | 40.0   | 37.5   | 33.2   | 28.1   | 23.8   | 20.4   | 16.2   | 11.9   | 7.7    | 7.7    |
| 75°   | 25.5   | 24.7   | 25.5   | 23.0   | 19.6   | 17.9   | 15.3   | 11.1   | 6.8    | 3.4    | 3.4    |
| 77.5° | 15.3   | 15.3   | 15.3   | 14.5   | 13.6   | 13.6   | 11.1   | 6.8    | 3.4    | 0.9    | 0.9    |
| 80°   | 11.9   | 11.9   | 12.8   | 11.9   | 11.9   | 11.9   | 9.4    | 5.1    | 1.7    | 0.0    | 0.0    |
| 82.5° | 11.9   | 12.8   | 14.5   | 13.6   | 11.9   | 10.2   | 8.5    | 5.1    | 1.7    | 0.0    | 0.0    |
| 85°   | 3.4    | 2.6    | 4.3    | 6.0    | 8.5    | 7.7    | 6.0    | 4.3    | 1.7    | 0.0    | 0.0    |
| 87.5° | 1.7    | 1.7    | 1.7    | 1.7    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 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)