

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: P1210554

Luminaire Tested: **ARCH3-160-727-U-T3RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-160-727-U-T3RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY  
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 14802 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 161  
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



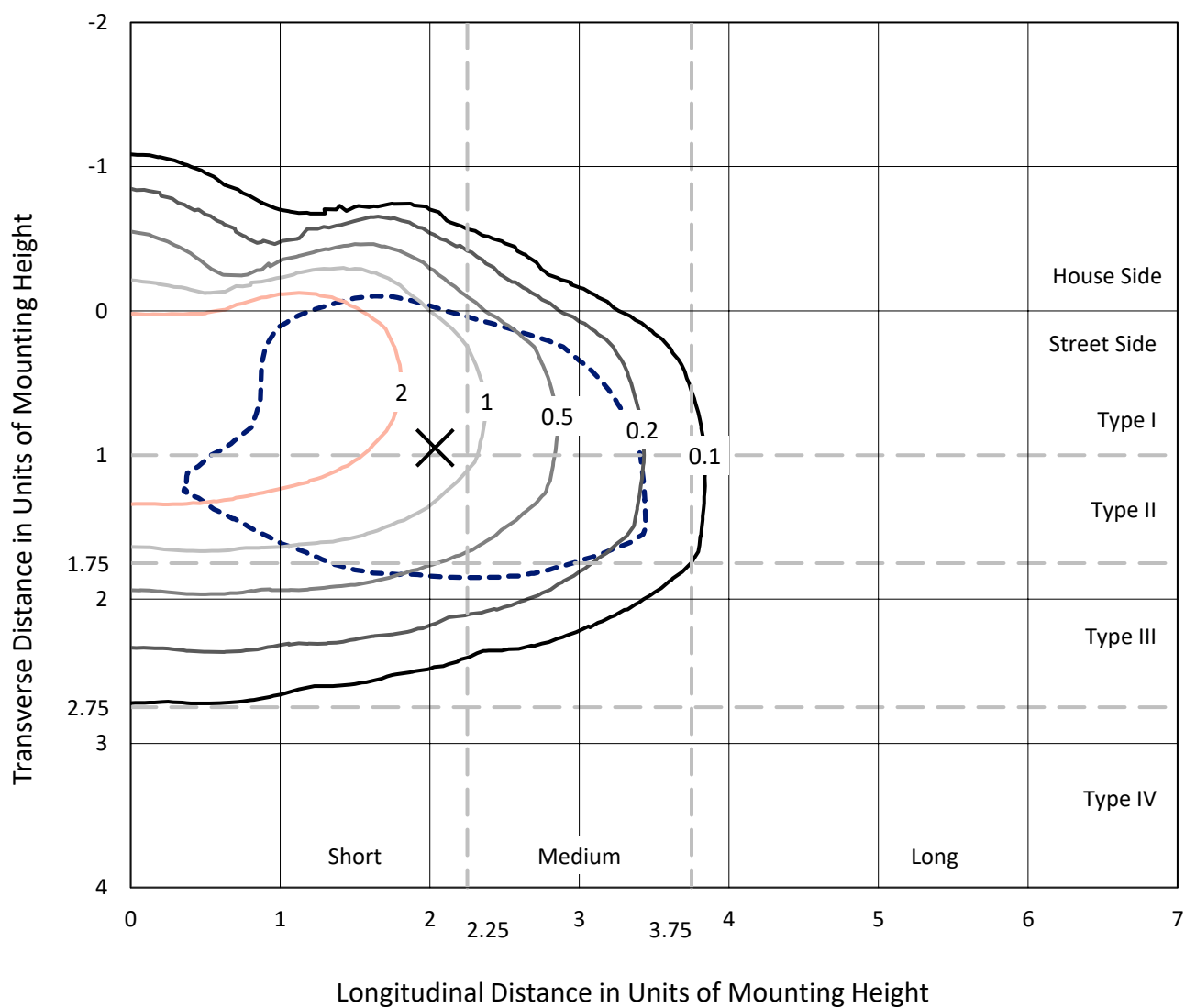
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

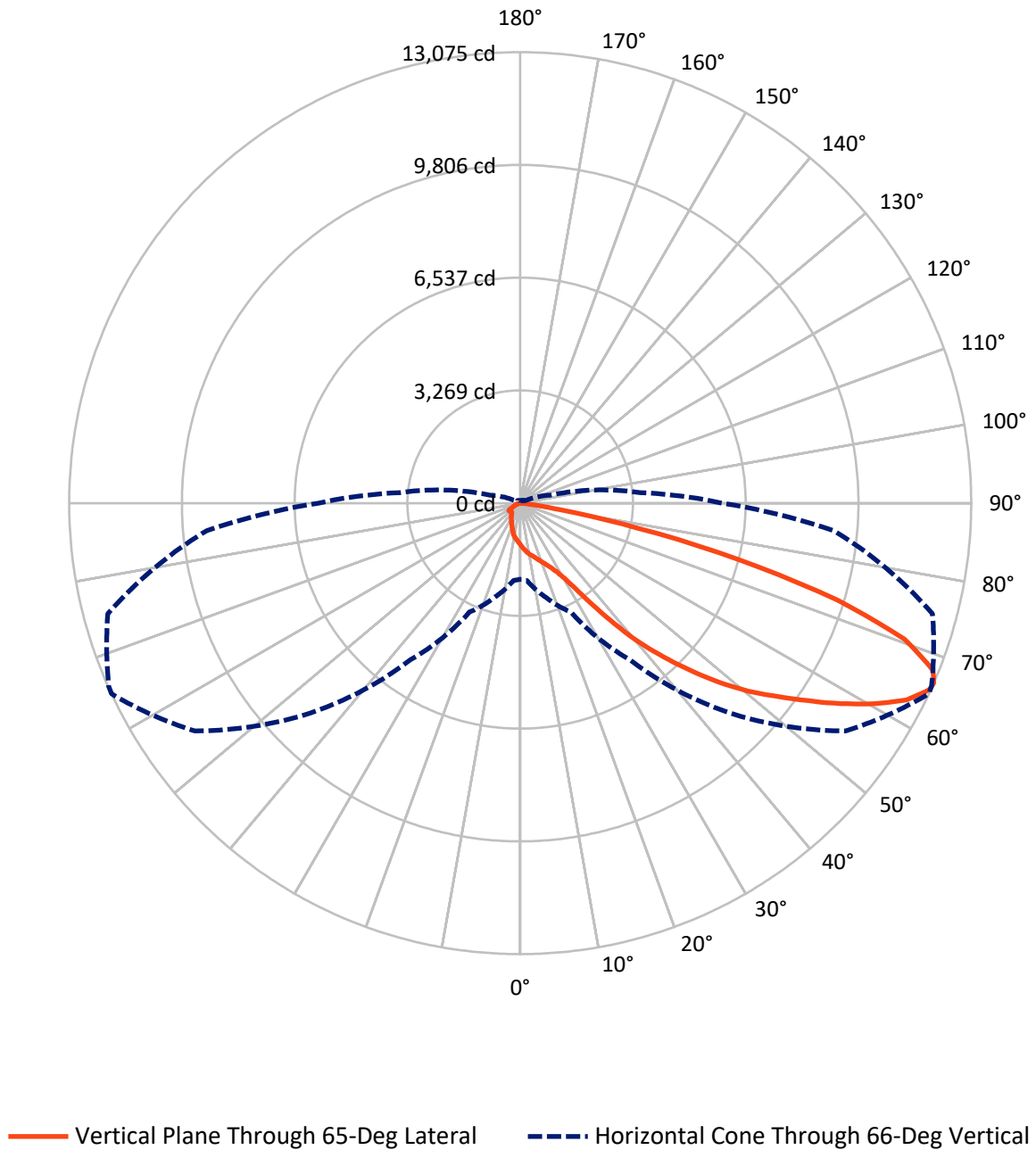
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
Type III - 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    | 1746.9   | 0.0    | 1746.9  |
|                    | % Fixture | 11.8     | 0.0    | 11.8    |
| <b>Street Side</b> | Lumens    | 13055.1  | 0.0    | 13055.1 |
|                    | % Fixture | 88.2     | 0.0    | 88.2    |
| <b>Total</b>       | Lumens    | 14802.0  | 0.0    | 14802.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 114.3   | 0.8       |
| 10°-20°   | 338.4   | 2.3       |
| 20°-30°   | 619.5   | 4.2       |
| 30°-40°   | 1258.7  | 8.5       |
| 40°-50°   | 2658.0  | 18.0      |
| 50°-60°   | 4086.3  | 27.6      |
| 60°-70°   | 4113.1  | 27.8      |
| 70°-80°   | 1536.9  | 10.4      |
| 80°-90°   | 76.8    | 0.5       |
| 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°    | 14802.0 | 100.0     |
| 0°-180°   | 14802.0 | 100.0     |

**Coefficient of Utilization**



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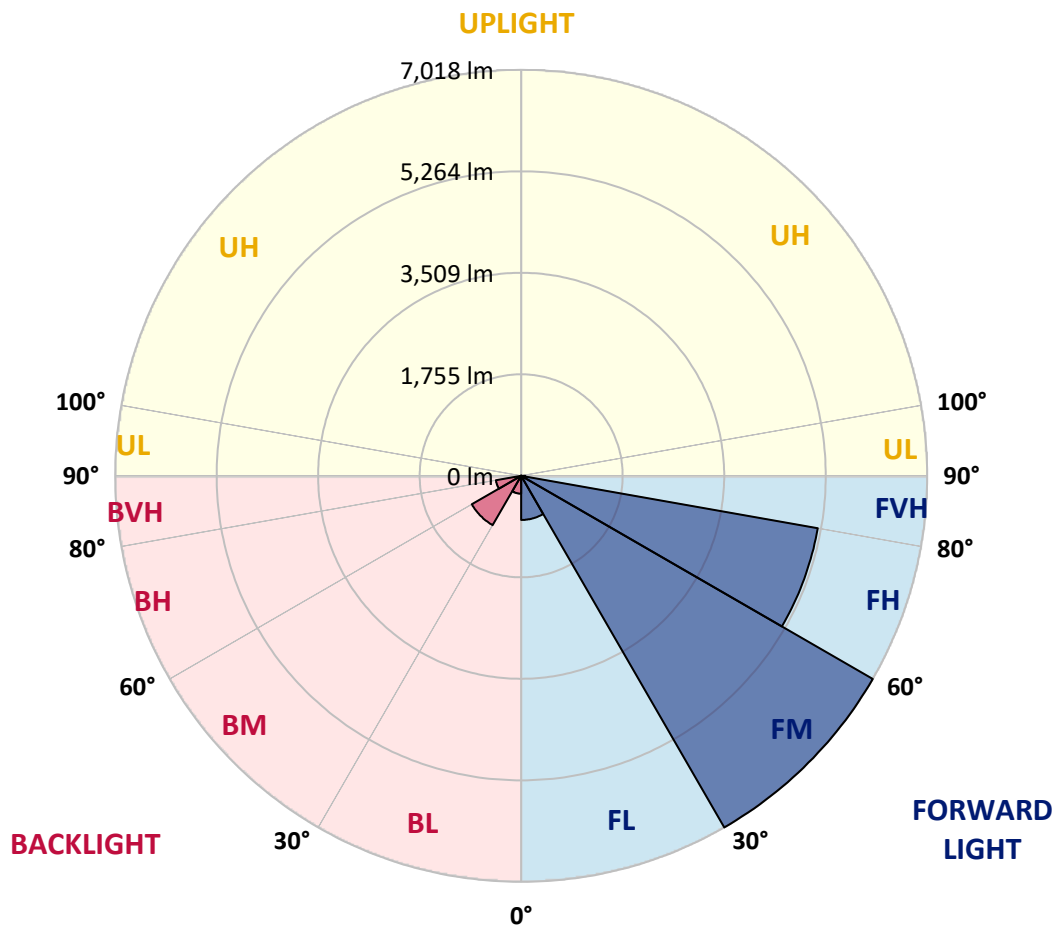
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 763.0  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 7018.1 | 47.4      |                         |      |         |
| FH   | (60°-80°)   | 5206.2 | 35.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 67.7   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 309.2  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 984.9  | 6.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 443.8  | 3.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 9.0    | 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-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9  | 1205.9  | 1205.9  | 1205.9  | 1205.9  |
| 2.5°  | 1375.2 | 1377.8 | 1372.5 | 1361.7 | 1351.0 | 1337.6 | 1316.1  | 1281.2  | 1275.8  | 1251.6  | 1224.7  |
| 5°    | 1469.2 | 1474.5 | 1466.5 | 1463.8 | 1458.4 | 1439.6 | 1410.1  | 1359.0  | 1353.7  | 1305.3  | 1243.5  |
| 7.5°  | 1501.4 | 1509.4 | 1504.1 | 1504.1 | 1504.1 | 1496.0 | 1482.6  | 1436.9  | 1428.9  | 1367.1  | 1273.1  |
| 10°   | 1525.6 | 1530.9 | 1528.2 | 1539.0 | 1547.0 | 1541.7 | 1533.6  | 1506.8  | 1498.7  | 1436.9  | 1313.4  |
| 12.5° | 1563.2 | 1565.9 | 1568.5 | 1573.9 | 1587.3 | 1592.7 | 1590.0  | 1565.9  | 1560.5  | 1517.5  | 1364.4  |
| 15°   | 1598.1 | 1598.1 | 1600.8 | 1624.9 | 1643.7 | 1654.5 | 1657.2  | 1638.4  | 1633.0  | 1598.1  | 1428.9  |
| 17.5° | 1630.3 | 1633.0 | 1641.1 | 1667.9 | 1700.1 | 1721.6 | 1735.1  | 1727.0  | 1718.9  | 1692.1  | 1504.1  |
| 20°   | 1678.7 | 1684.0 | 1692.1 | 1729.7 | 1761.9 | 1796.8 | 1823.7  | 1821.0  | 1818.3  | 1799.5  | 1592.7  |
| 22.5° | 1761.9 | 1767.3 | 1780.7 | 1815.6 | 1847.9 | 1890.8 | 1936.5  | 1933.8  | 1925.8  | 1912.3  | 1697.5  |
| 25°   | 1888.2 | 1888.2 | 1896.2 | 1925.8 | 1966.0 | 2017.1 | 2060.0  | 2068.1  | 2060.0  | 2052.0  | 1829.1  |
| 27.5° | 2046.6 | 2049.3 | 2049.3 | 2081.5 | 2119.1 | 2183.6 | 2237.3  | 2245.4  | 2245.4  | 2237.3  | 2006.3  |
| 30°   | 2266.9 | 2258.8 | 2253.4 | 2280.3 | 2320.6 | 2414.6 | 2508.6  | 2524.7  | 2516.6  | 2530.1  | 2256.1  |
| 32.5° | 2645.6 | 2632.1 | 2586.5 | 2591.8 | 2616.0 | 2744.9 | 2903.4  | 2959.8  | 2957.1  | 2981.3  | 2659.0  |
| 35°   | 3169.3 | 3142.4 | 3075.3 | 3018.9 | 3016.2 | 3155.9 | 3397.6  | 3609.8  | 3607.1  | 3690.4  | 3271.4  |
| 37.5° | 3760.2 | 3795.1 | 3668.9 | 3572.2 | 3542.6 | 3652.8 | 3964.3  | 4423.6  | 4447.8  | 4592.8  | 4074.4  |
| 40°   | 4549.8 | 4571.3 | 4410.2 | 4273.2 | 4133.5 | 4173.8 | 4584.7  | 5299.2  | 5342.2  | 5503.3  | 4877.5  |
| 42.5° | 5237.4 | 5258.9 | 5164.9 | 4998.4 | 4821.1 | 4745.9 | 5210.5  | 6094.2  | 6129.1  | 6352.0  | 5704.7  |
| 45°   | 5704.7 | 5720.9 | 5753.1 | 5769.2 | 5567.8 | 5412.0 | 5976.0  | 6910.7  | 6953.7  | 7211.5  | 6513.2  |
| 47.5° | 6070.0 | 6083.4 | 6147.9 | 6309.1 | 6268.8 | 6145.2 | 6754.9  | 7759.4  | 7770.2  | 8057.5  | 7300.1  |
| 50°   | 6239.2 | 6271.5 | 6429.9 | 6677.0 | 6854.3 | 6889.2 | 7601.0  | 8562.5  | 8592.0  | 8866.0  | 8044.1  |
| 52.5° | 6051.2 | 6062.0 | 6462.2 | 6926.8 | 7284.0 | 7638.6 | 8449.7  | 9306.5  | 9392.4  | 9596.5  | 8712.9  |
| 55°   | 5417.4 | 5495.2 | 6102.3 | 6918.7 | 7622.4 | 8350.3 | 9357.5  | 10109.5 | 10187.4 | 10316.3 | 9301.1  |
| 57.5° | 4681.4 | 4767.4 | 5506.0 | 6572.3 | 7767.5 | 9008.3 | 10198.2 | 10963.6 | 11017.4 | 11052.3 | 9841.0  |
| 60°   | 4044.9 | 4125.5 | 4885.6 | 5908.9 | 7622.4 | 9473.0 | 10979.8 | 11812.4 | 11858.0 | 11764.0 | 10112.2 |
| 62.5° | 3263.3 | 3343.9 | 4109.4 | 5030.6 | 7053.0 | 9567.0 | 11559.9 | 12567.1 | 12585.9 | 12330.7 | 9945.7  |
| 65°   | 2460.2 | 2514.0 | 3153.2 | 3942.8 | 6056.6 | 9067.4 | 11691.5 | 13037.1 | 13018.3 | 12494.6 | 9446.1  |
| 66°   | 2205.1 | 2250.7 | 2814.8 | 3486.2 | 5538.2 | 8610.8 | 11514.2 | 13074.7 | 13055.9 | 12373.7 | 9118.5  |
| 67.5° | 1901.6 | 1915.0 | 2379.7 | 2852.4 | 4633.1 | 7641.2 | 10974.4 | 12902.8 | 12918.9 | 12040.7 | 8519.5  |
| 70°   | 1485.3 | 1482.6 | 1751.2 | 1984.8 | 3163.9 | 5436.2 | 9153.4  | 11820.4 | 11898.3 | 10783.7 | 7265.2  |
| 72.5° | 950.8  | 918.6  | 1074.3 | 1214.0 | 1842.5 | 3155.9 | 6674.3  | 9634.1  | 9765.7  | 8471.2  | 5412.0  |
| 75°   | 566.7  | 534.5  | 572.1  | 607.0  | 883.6  | 1517.5 | 3924.0  | 6556.2  | 6682.4  | 5430.8  | 3220.3  |
| 77.5° | 424.4  | 410.9  | 413.6  | 384.1  | 392.1  | 569.4  | 1791.5  | 3464.7  | 3556.1  | 2223.9  | 1222.1  |
| 80°   | 325.0  | 290.1  | 271.3  | 284.7  | 257.8  | 225.6  | 666.1   | 1192.5  | 1248.9  | 526.4   | 255.2   |
| 82.5° | 217.6  | 188.0  | 174.6  | 190.7  | 163.8  | 126.2  | 161.2   | 231.0   | 225.6   | 142.4   | 99.4    |
| 85°   | 112.8  | 96.7   | 96.7   | 96.7   | 83.3   | 61.8   | 69.8    | 94.0    | 94.0    | 75.2    | 59.1    |
| 87.5° | 32.2   | 29.5   | 34.9   | 32.2   | 24.2   | 24.2   | 26.9    | 32.2    | 32.2    | 29.5    | 26.9    |
| 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°    | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 |
| 2.5°  | 1203.3 | 1192.5 | 1163.0 | 1141.5 | 1120.0 | 1101.2 | 1079.7 | 1074.3 | 1063.6 | 1066.3 | 1060.9 |
| 5°    | 1211.3 | 1181.8 | 1130.7 | 1082.4 | 1044.8 | 1012.6 | 972.3  | 956.2  | 934.7  | 926.6  | 921.2  |
| 7.5°  | 1222.1 | 1179.1 | 1103.9 | 1036.7 | 972.3  | 907.8  | 843.4  | 805.8  | 781.6  | 770.8  | 762.8  |
| 10°   | 1246.2 | 1189.8 | 1090.5 | 985.7  | 875.6  | 784.3  | 719.8  | 692.9  | 676.8  | 674.1  | 671.5  |
| 12.5° | 1278.5 | 1205.9 | 1077.0 | 921.2  | 776.2  | 690.3  | 650.0  | 641.9  | 639.2  | 639.2  | 636.5  |
| 15°   | 1326.8 | 1232.8 | 1055.5 | 846.0  | 698.3  | 639.2  | 620.4  | 607.0  | 601.6  | 601.6  | 601.6  |
| 17.5° | 1375.2 | 1265.0 | 1023.3 | 768.2  | 644.6  | 607.0  | 588.2  | 580.1  | 574.8  | 577.5  | 574.8  |
| 20°   | 1436.9 | 1302.6 | 980.3  | 701.0  | 609.7  | 580.1  | 561.3  | 553.3  | 550.6  | 550.6  | 550.6  |
| 22.5° | 1506.8 | 1345.6 | 926.6  | 650.0  | 580.1  | 553.3  | 534.5  | 526.4  | 521.1  | 523.7  | 523.7  |
| 25°   | 1600.8 | 1399.3 | 870.2  | 598.9  | 550.6  | 526.4  | 504.9  | 494.2  | 494.2  | 496.9  | 499.6  |
| 27.5° | 1721.6 | 1463.8 | 813.8  | 566.7  | 523.7  | 499.6  | 475.4  | 464.7  | 467.3  | 472.7  | 472.7  |
| 30°   | 1898.9 | 1552.4 | 757.4  | 531.8  | 494.2  | 467.3  | 445.9  | 435.1  | 440.5  | 451.2  | 451.2  |
| 32.5° | 2151.4 | 1697.5 | 709.1  | 491.5  | 451.2  | 421.7  | 400.2  | 392.1  | 405.6  | 427.1  | 427.1  |
| 35°   | 2602.6 | 1963.4 | 679.5  | 451.2  | 405.6  | 370.6  | 343.8  | 335.7  | 354.5  | 381.4  | 381.4  |
| 37.5° | 3206.9 | 2390.4 | 690.3  | 416.3  | 368.0  | 327.7  | 298.1  | 287.4  | 300.8  | 325.0  | 333.0  |
| 40°   | 3881.1 | 2906.1 | 784.3  | 386.8  | 333.0  | 292.8  | 263.2  | 252.5  | 260.5  | 271.3  | 274.0  |
| 42.5° | 4555.2 | 3454.0 | 961.5  | 365.3  | 306.2  | 263.2  | 236.4  | 228.3  | 233.7  | 236.4  | 239.0  |
| 45°   | 5226.7 | 3996.5 | 1184.5 | 351.8  | 282.0  | 239.0  | 212.2  | 212.2  | 214.9  | 214.9  | 214.9  |
| 47.5° | 5863.2 | 4525.7 | 1418.1 | 349.2  | 260.5  | 214.9  | 193.4  | 196.1  | 196.1  | 198.8  | 198.8  |
| 50°   | 6464.8 | 4998.4 | 1654.5 | 357.2  | 241.7  | 193.4  | 177.3  | 177.3  | 177.3  | 180.0  | 177.3  |
| 52.5° | 6967.1 | 5412.0 | 1901.6 | 370.6  | 222.9  | 177.3  | 161.2  | 161.2  | 161.2  | 163.8  | 161.2  |
| 55°   | 7442.5 | 5788.0 | 2154.1 | 389.4  | 206.8  | 163.8  | 147.7  | 142.4  | 142.4  | 145.0  | 142.4  |
| 57.5° | 7829.3 | 6037.8 | 2393.1 | 392.1  | 193.4  | 150.4  | 137.0  | 128.9  | 128.9  | 128.9  | 128.9  |
| 60°   | 7845.4 | 5892.8 | 2462.9 | 343.8  | 177.3  | 137.0  | 123.5  | 112.8  | 115.5  | 115.5  | 115.5  |
| 62.5° | 7332.4 | 5130.0 | 1979.5 | 257.8  | 158.5  | 123.5  | 112.8  | 102.1  | 102.1  | 102.1  | 102.1  |
| 65°   | 6325.2 | 3991.2 | 1160.3 | 204.1  | 137.0  | 110.1  | 99.4   | 91.3   | 91.3   | 91.3   | 88.6   |
| 66°   | 5852.5 | 3499.7 | 889.0  | 185.3  | 128.9  | 107.4  | 96.7   | 88.6   | 85.9   | 83.3   | 83.3   |
| 67.5° | 5081.6 | 2766.4 | 556.0  | 163.8  | 118.2  | 99.4   | 88.6   | 80.6   | 77.9   | 75.2   | 75.2   |
| 70°   | 3827.3 | 1756.5 | 271.3  | 126.2  | 102.1  | 85.9   | 77.9   | 69.8   | 67.1   | 64.5   | 61.8   |
| 72.5° | 2685.8 | 1028.7 | 142.4  | 96.7   | 83.3   | 75.2   | 67.1   | 59.1   | 56.4   | 53.7   | 53.7   |
| 75°   | 1517.5 | 496.9  | 94.0   | 69.8   | 67.1   | 61.8   | 56.4   | 48.3   | 45.7   | 45.7   | 45.7   |
| 77.5° | 574.8  | 171.9  | 64.5   | 51.0   | 53.7   | 48.3   | 40.3   | 40.3   | 37.6   | 40.3   | 37.6   |
| 80°   | 150.4  | 75.2   | 40.3   | 37.6   | 40.3   | 34.9   | 29.5   | 32.2   | 32.2   | 32.2   | 32.2   |
| 82.5° | 80.6   | 43.0   | 24.2   | 26.9   | 24.2   | 24.2   | 18.8   | 21.5   | 24.2   | 21.5   | 24.2   |
| 85°   | 56.4   | 21.5   | 13.4   | 13.4   | 10.7   | 10.7   | 8.1    | 10.7   | 13.4   | 10.7   | 10.7   |
| 87.5° | 29.5   | 8.1    | 8.1    | 8.1    | 8.1    | 5.4    | 2.7    | 0.0    | 2.7    | 2.7    | 2.7    |
| 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)