

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: P507626

Luminaire Tested: **VERD-S-CA1-60-727-U-T3-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-60-727-U-T3-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 1150mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6863 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

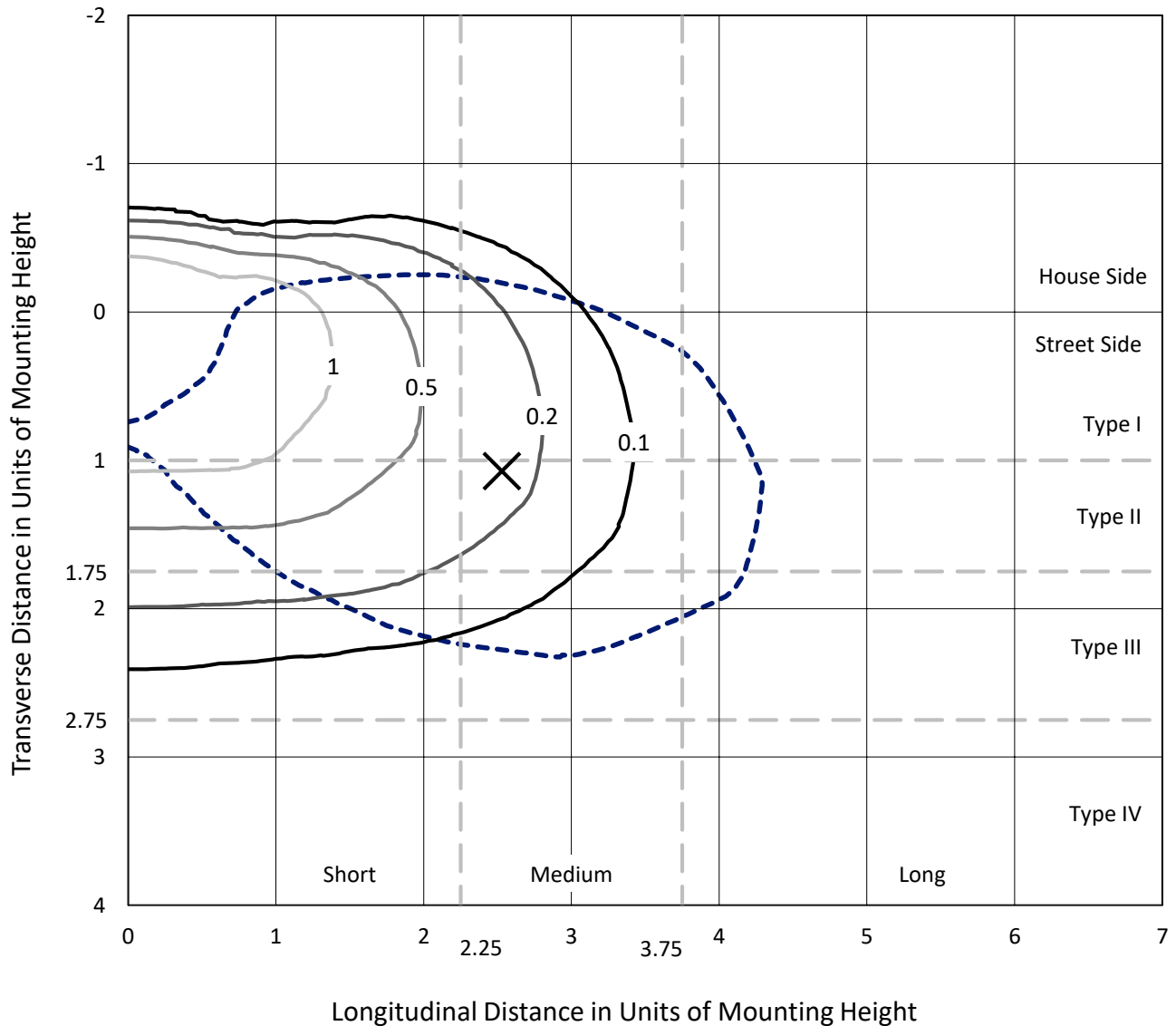
Input Watts (W): 63.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

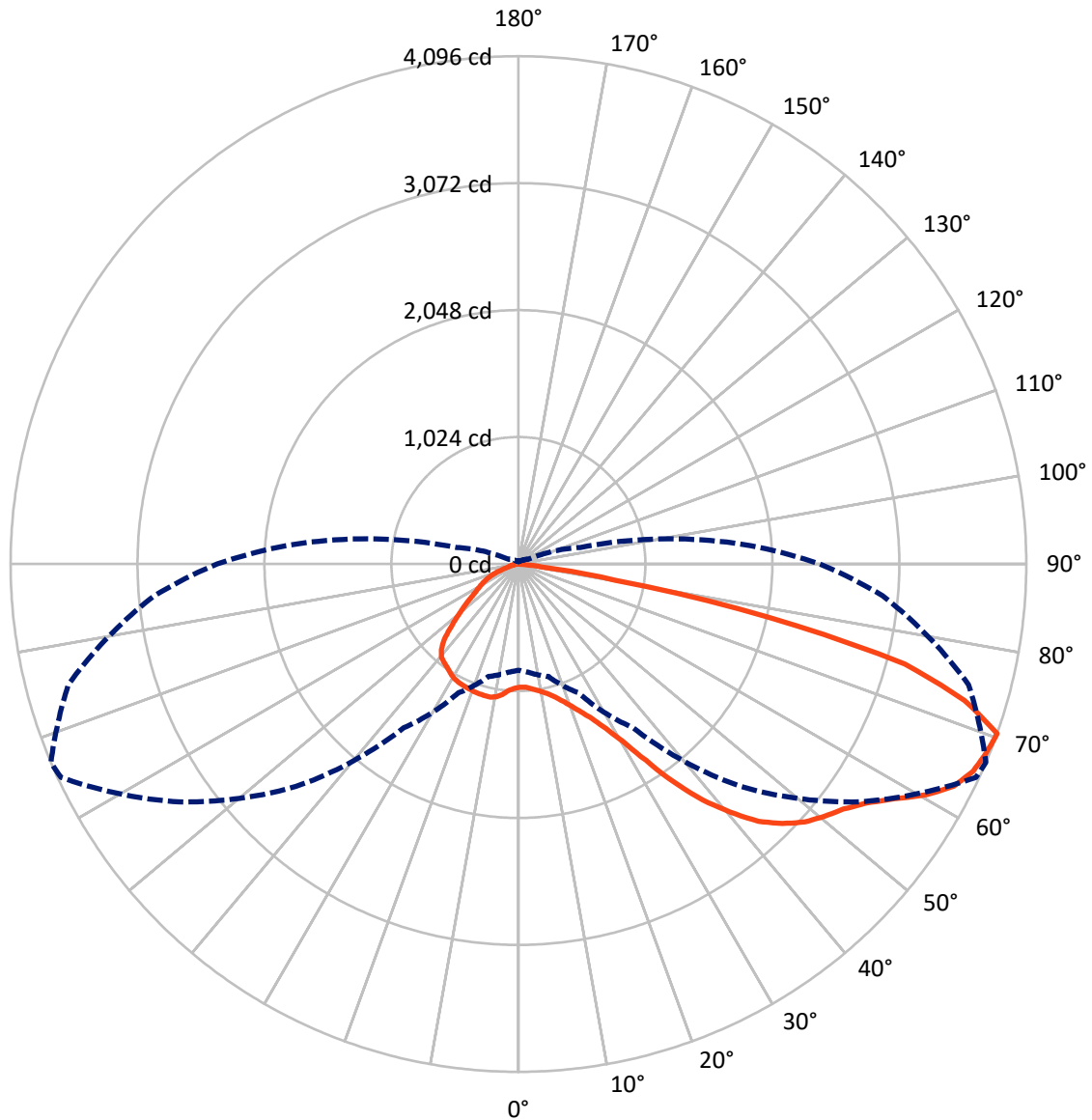
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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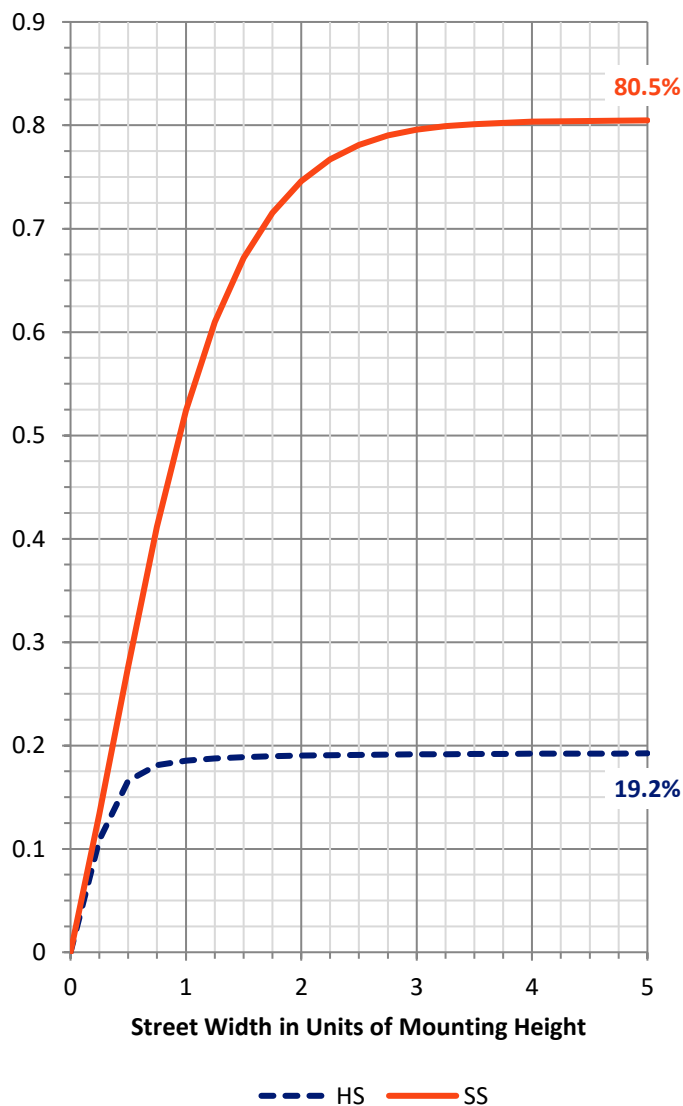
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1337.5   | 0.0    | 1337.5 |
|                    | % Fixture | 19.5     | 0.0    | 19.5   |
| <b>Street Side</b> | Lumens    | 5525.5   | 0.0    | 5525.5 |
|                    | % Fixture | 80.5     | 0.0    | 80.5   |
| <b>Total</b>       | Lumens    | 6863.0   | 0.0    | 6863.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.0  | 1.5       |
| 10°-20°   | 316.8  | 4.6       |
| 20°-30°   | 550.6  | 8.0       |
| 30°-40°   | 862.2  | 12.6      |
| 40°-50°   | 1213.1 | 17.7      |
| 50°-60°   | 1446.8 | 21.1      |
| 60°-70°   | 1499.2 | 21.8      |
| 70°-80°   | 827.3  | 12.1      |
| 80°-90°   | 47.1   | 0.7       |
| 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°    | 6863.0 | 100.0     |
| 0°-180°   | 6863.0 | 100.0     |

**Coefficient of Utilization**



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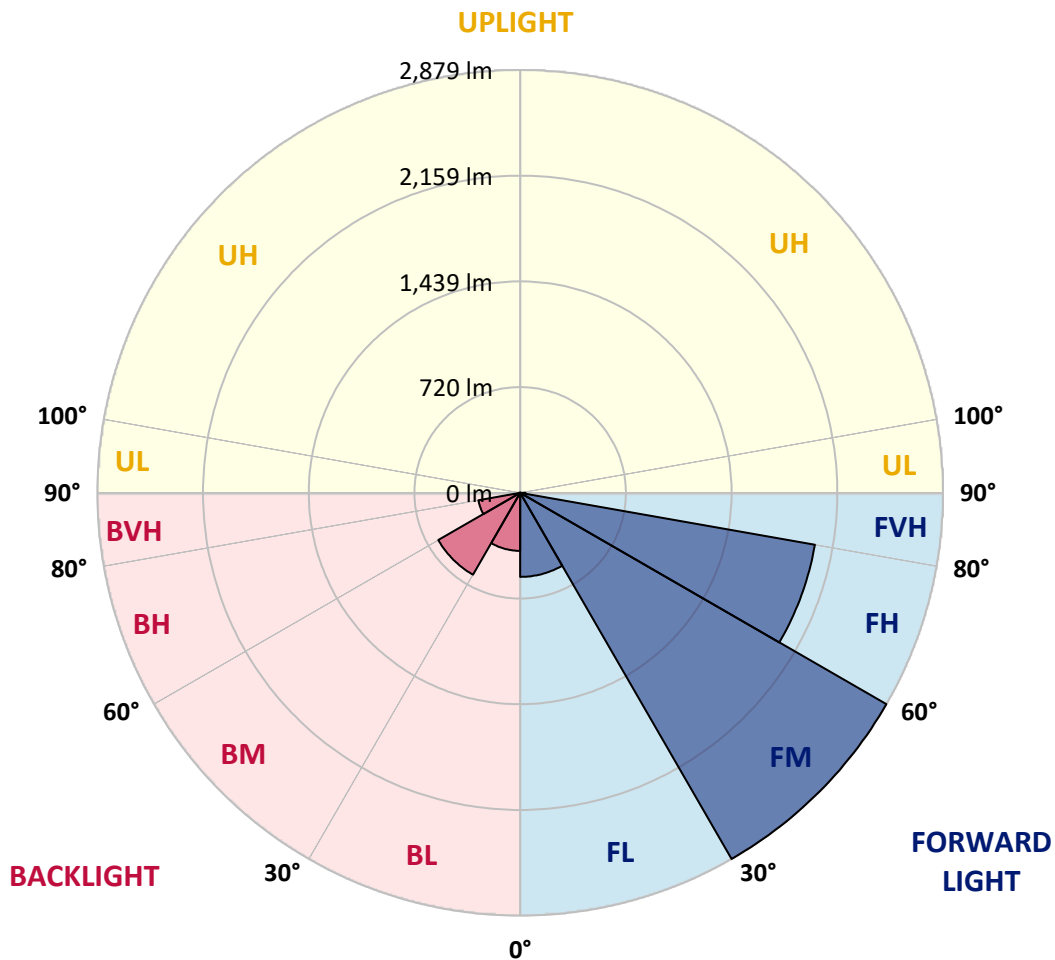
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 572.5  | 8.3       |                         |      |         |
| FM (30°-60°)   | 2878.7 | 41.9      |                         |      |         |
| FH (60°-80°)   | 2037.8 | 29.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 36.6   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 394.9  | 5.8       | B1/500                  |      |         |
| BM (30°-60°)   | 643.3  | 9.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 288.7  | 4.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 10.5   | 0.2       |                         |      | G1/100  |
| 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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 993.9  | 993.9  | 993.9  | 993.9  | 993.9  | 993.9  | 993.9  | 993.9  | 993.9  | 993.9  | 993.9  |
| 2.5°  | 1000.1 | 1000.1 | 1000.1 | 998.0  | 998.0  | 998.0  | 996.0  | 993.9  | 993.9  | 993.9  | 996.0  |
| 5°    | 1027.2 | 1027.2 | 1025.1 | 1023.1 | 1021.0 | 1014.7 | 1010.5 | 1008.5 | 1008.5 | 1006.4 | 1010.5 |
| 7.5°  | 1060.6 | 1060.6 | 1060.6 | 1056.4 | 1050.1 | 1041.8 | 1033.5 | 1027.2 | 1025.1 | 1023.1 | 1025.1 |
| 10°   | 1110.6 | 1110.6 | 1106.4 | 1100.1 | 1089.7 | 1077.2 | 1062.6 | 1050.1 | 1048.1 | 1043.9 | 1048.1 |
| 12.5° | 1175.2 | 1168.9 | 1164.7 | 1154.3 | 1141.8 | 1121.0 | 1098.1 | 1079.3 | 1075.1 | 1071.0 | 1085.6 |
| 15°   | 1241.8 | 1239.7 | 1229.3 | 1223.1 | 1202.2 | 1175.2 | 1143.9 | 1118.9 | 1114.7 | 1106.4 | 1118.9 |
| 17.5° | 1321.0 | 1323.1 | 1318.9 | 1308.5 | 1279.3 | 1239.7 | 1202.2 | 1166.8 | 1162.7 | 1156.4 | 1162.7 |
| 20°   | 1429.4 | 1425.2 | 1416.9 | 1402.3 | 1368.9 | 1316.8 | 1268.9 | 1229.3 | 1223.1 | 1218.9 | 1212.7 |
| 22.5° | 1537.7 | 1539.8 | 1523.1 | 1508.5 | 1466.9 | 1416.9 | 1352.3 | 1304.3 | 1296.0 | 1293.9 | 1264.7 |
| 25°   | 1641.9 | 1646.0 | 1639.8 | 1621.0 | 1585.6 | 1521.0 | 1450.2 | 1391.8 | 1381.4 | 1379.3 | 1329.3 |
| 27.5° | 1750.2 | 1752.3 | 1758.6 | 1750.2 | 1712.7 | 1646.0 | 1566.9 | 1500.2 | 1500.2 | 1483.5 | 1408.5 |
| 30°   | 1854.4 | 1858.6 | 1862.7 | 1862.7 | 1844.0 | 1785.7 | 1716.9 | 1658.6 | 1658.6 | 1646.0 | 1516.9 |
| 32.5° | 1935.7 | 1937.8 | 1962.8 | 1983.6 | 1983.6 | 1941.9 | 1896.1 | 1889.8 | 1887.7 | 1910.7 | 1764.8 |
| 35°   | 2008.6 | 2014.8 | 2050.3 | 2106.5 | 2129.4 | 2112.8 | 2114.9 | 2137.8 | 2160.7 | 2217.0 | 2106.5 |
| 37.5° | 2062.8 | 2071.1 | 2104.4 | 2169.0 | 2233.6 | 2277.4 | 2319.1 | 2381.6 | 2417.0 | 2502.4 | 2350.3 |
| 40°   | 2077.4 | 2087.8 | 2158.6 | 2250.3 | 2354.5 | 2454.5 | 2529.5 | 2606.6 | 2629.5 | 2689.9 | 2498.2 |
| 42.5° | 2031.5 | 2041.9 | 2131.5 | 2317.0 | 2462.8 | 2619.1 | 2700.4 | 2798.3 | 2837.9 | 2815.0 | 2621.2 |
| 45°   | 2000.3 | 2006.5 | 2100.3 | 2310.7 | 2556.6 | 2779.5 | 2858.7 | 2960.8 | 2985.8 | 2931.6 | 2723.3 |
| 47.5° | 1960.7 | 1966.9 | 2064.9 | 2302.4 | 2633.7 | 2917.0 | 2971.2 | 3083.7 | 3108.7 | 3025.4 | 2810.8 |
| 50°   | 1902.3 | 1906.5 | 2019.0 | 2285.7 | 2683.7 | 3015.0 | 3075.4 | 3187.9 | 3198.3 | 3112.9 | 2894.1 |
| 52.5° | 1831.5 | 1844.0 | 1952.3 | 2246.1 | 2719.1 | 3075.4 | 3148.3 | 3269.2 | 3283.8 | 3225.4 | 2985.8 |
| 55°   | 1735.6 | 1750.2 | 1875.2 | 2187.8 | 2706.6 | 3096.2 | 3181.7 | 3377.5 | 3402.5 | 3354.6 | 3062.9 |
| 57.5° | 1637.7 | 1658.6 | 1781.5 | 2106.5 | 2656.6 | 3127.5 | 3292.1 | 3538.0 | 3571.3 | 3481.7 | 3125.4 |
| 60°   | 1537.7 | 1546.0 | 1673.1 | 1996.1 | 2573.3 | 3158.7 | 3417.1 | 3748.4 | 3779.7 | 3606.7 | 3175.4 |
| 62.5° | 1423.1 | 1433.5 | 1546.0 | 1844.0 | 2429.5 | 3129.6 | 3510.9 | 3925.5 | 3944.3 | 3710.9 | 3196.3 |
| 65°   | 1289.8 | 1289.8 | 1385.6 | 1658.6 | 2235.7 | 3025.4 | 3523.4 | 4017.2 | 4029.7 | 3777.6 | 3171.2 |
| 67.5° | 1104.3 | 1112.6 | 1189.7 | 1429.4 | 1975.3 | 2821.2 | 3452.5 | 4038.0 | 4069.3 | 3819.3 | 3102.5 |
| 70°   | 856.4  | 875.1  | 939.7  | 1146.0 | 1612.7 | 2537.8 | 3346.3 | 4071.4 | 4096.4 | 3758.8 | 2948.3 |
| 72.5° | 585.5  | 604.2  | 662.6  | 785.5  | 1162.7 | 2035.7 | 3027.5 | 3756.7 | 3763.0 | 3465.0 | 2648.3 |
| 75°   | 154.2  | 170.9  | 216.7  | 314.6  | 487.6  | 1368.9 | 2421.2 | 3181.7 | 3219.2 | 2996.2 | 2185.7 |
| 77.5° | 45.8   | 45.8   | 56.3   | 72.9   | 100.0  | 279.2  | 1231.4 | 2027.3 | 2064.9 | 1975.3 | 1362.7 |
| 80°   | 35.4   | 35.4   | 41.7   | 50.0   | 64.6   | 143.8  | 427.1  | 748.0  | 793.9  | 848.0  | 562.6  |
| 82.5° | 22.9   | 25.0   | 27.1   | 29.2   | 29.2   | 58.3   | 114.6  | 191.7  | 189.6  | 206.3  | 181.3  |
| 85°   | 14.6   | 14.6   | 12.5   | 12.5   | 10.4   | 14.6   | 10.4   | 12.5   | 14.6   | 14.6   | 16.7   |
| 87.5° | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 4.2    | 4.2    | 4.2    | 6.3    |
| 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°    | 993.9  | 993.9  | 993.9  | 993.9  | 993.9  | 993.9  | 993.9  | 993.9  | 993.9  | 993.9  | 993.9  |
| 2.5°  | 998.0  | 1000.1 | 1002.2 | 1004.3 | 1008.5 | 1008.5 | 1010.5 | 1010.5 | 1010.5 | 1010.5 | 1010.5 |
| 5°    | 1010.5 | 1012.6 | 1018.9 | 1025.1 | 1039.7 | 1048.1 | 1056.4 | 1062.6 | 1062.6 | 1066.8 | 1066.8 |
| 7.5°  | 1029.3 | 1035.6 | 1054.3 | 1062.6 | 1075.1 | 1087.6 | 1093.9 | 1096.0 | 1100.1 | 1100.1 | 1100.1 |
| 10°   | 1060.6 | 1066.8 | 1081.4 | 1087.6 | 1093.9 | 1093.9 | 1091.8 | 1089.7 | 1083.5 | 1081.4 | 1083.5 |
| 12.5° | 1089.7 | 1098.1 | 1098.1 | 1096.0 | 1089.7 | 1081.4 | 1071.0 | 1060.6 | 1050.1 | 1041.8 | 1041.8 |
| 15°   | 1125.1 | 1121.0 | 1108.5 | 1091.8 | 1075.1 | 1054.3 | 1033.5 | 1014.7 | 998.0  | 991.8  | 991.8  |
| 17.5° | 1156.4 | 1146.0 | 1118.9 | 1087.6 | 1052.2 | 1018.9 | 985.5  | 954.3  | 925.1  | 914.7  | 908.5  |
| 20°   | 1193.9 | 1175.2 | 1127.2 | 1079.3 | 1029.3 | 977.2  | 921.0  | 864.7  | 814.7  | 793.9  | 791.8  |
| 22.5° | 1237.7 | 1206.4 | 1139.7 | 1066.8 | 1000.1 | 921.0  | 827.2  | 748.0  | 698.0  | 673.0  | 668.8  |
| 25°   | 1289.8 | 1243.9 | 1152.2 | 1056.4 | 964.7  | 848.0  | 723.0  | 633.4  | 570.9  | 543.8  | 533.4  |
| 27.5° | 1354.3 | 1293.9 | 1168.9 | 1043.9 | 910.5  | 758.4  | 616.7  | 512.6  | 443.8  | 410.5  | 406.3  |
| 30°   | 1437.7 | 1354.3 | 1185.6 | 1025.1 | 843.9  | 654.3  | 502.1  | 385.5  | 316.7  | 283.4  | 275.0  |
| 32.5° | 1629.4 | 1477.3 | 1206.4 | 993.9  | 760.5  | 554.2  | 379.2  | 258.4  | 189.6  | 158.4  | 156.3  |
| 35°   | 1954.4 | 1754.4 | 1254.3 | 952.2  | 677.2  | 435.5  | 243.8  | 137.5  | 102.1  | 89.6   | 89.6   |
| 37.5° | 2198.2 | 1985.7 | 1383.5 | 898.0  | 568.8  | 291.7  | 125.0  | 81.3   | 64.6   | 62.5   | 62.5   |
| 40°   | 2344.1 | 2123.2 | 1525.2 | 837.6  | 439.6  | 156.3  | 77.1   | 62.5   | 58.3   | 56.3   | 56.3   |
| 42.5° | 2464.9 | 2237.8 | 1591.9 | 762.6  | 279.2  | 87.5   | 64.6   | 58.3   | 54.2   | 52.1   | 52.1   |
| 45°   | 2564.9 | 2325.3 | 1600.2 | 666.8  | 156.3  | 72.9   | 60.4   | 52.1   | 50.0   | 47.9   | 47.9   |
| 47.5° | 2644.1 | 2400.3 | 1579.4 | 531.3  | 97.9   | 68.8   | 56.3   | 47.9   | 43.8   | 43.8   | 43.8   |
| 50°   | 2719.1 | 2464.9 | 1521.0 | 418.8  | 91.7   | 64.6   | 52.1   | 43.8   | 41.7   | 41.7   | 41.7   |
| 52.5° | 2787.9 | 2510.7 | 1423.1 | 337.5  | 85.4   | 60.4   | 50.0   | 41.7   | 37.5   | 39.6   | 39.6   |
| 55°   | 2844.1 | 2529.5 | 1323.1 | 260.5  | 81.3   | 58.3   | 47.9   | 39.6   | 35.4   | 35.4   | 35.4   |
| 57.5° | 2875.4 | 2489.9 | 1239.7 | 197.9  | 79.2   | 56.3   | 45.8   | 37.5   | 31.3   | 29.2   | 29.2   |
| 60°   | 2877.5 | 2437.8 | 1162.7 | 166.7  | 75.0   | 52.1   | 43.8   | 33.3   | 27.1   | 25.0   | 25.0   |
| 62.5° | 2840.0 | 2375.3 | 1046.0 | 143.8  | 70.8   | 50.0   | 39.6   | 31.3   | 25.0   | 22.9   | 22.9   |
| 65°   | 2767.0 | 2264.9 | 916.8  | 122.9  | 68.8   | 50.0   | 35.4   | 29.2   | 25.0   | 20.8   | 20.8   |
| 67.5° | 2650.3 | 2081.5 | 743.8  | 108.3  | 64.6   | 45.8   | 35.4   | 27.1   | 22.9   | 20.8   | 20.8   |
| 70°   | 2429.5 | 1819.0 | 514.7  | 93.8   | 60.4   | 41.7   | 33.3   | 27.1   | 22.9   | 18.8   | 18.8   |
| 72.5° | 2094.0 | 1477.3 | 254.2  | 77.1   | 52.1   | 41.7   | 33.3   | 25.0   | 20.8   | 18.8   | 18.8   |
| 75°   | 1619.0 | 1058.5 | 154.2  | 62.5   | 41.7   | 37.5   | 31.3   | 25.0   | 20.8   | 16.7   | 16.7   |
| 77.5° | 952.2  | 470.9  | 110.4  | 47.9   | 31.3   | 29.2   | 27.1   | 22.9   | 18.8   | 16.7   | 16.7   |
| 80°   | 348.0  | 200.0  | 81.3   | 37.5   | 25.0   | 25.0   | 20.8   | 18.8   | 16.7   | 14.6   | 14.6   |
| 82.5° | 135.4  | 106.3  | 54.2   | 27.1   | 20.8   | 18.8   | 16.7   | 14.6   | 12.5   | 12.5   | 12.5   |
| 85°   | 18.8   | 18.8   | 18.8   | 14.6   | 12.5   | 12.5   | 10.4   | 10.4   | 8.3    | 8.3    | 8.3    |
| 87.5° | 6.3    | 6.3    | 6.3    | 8.3    | 6.3    | 6.3    | 4.2    | 4.2    | 4.2    | 6.3    | 6.3    |
| 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)