

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: P269882

Luminaire Tested: **GAP-AF-02-LED-U-SL4-7027-600**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P269882  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-02-LED-U-SL4-7027-600  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6755.5 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
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



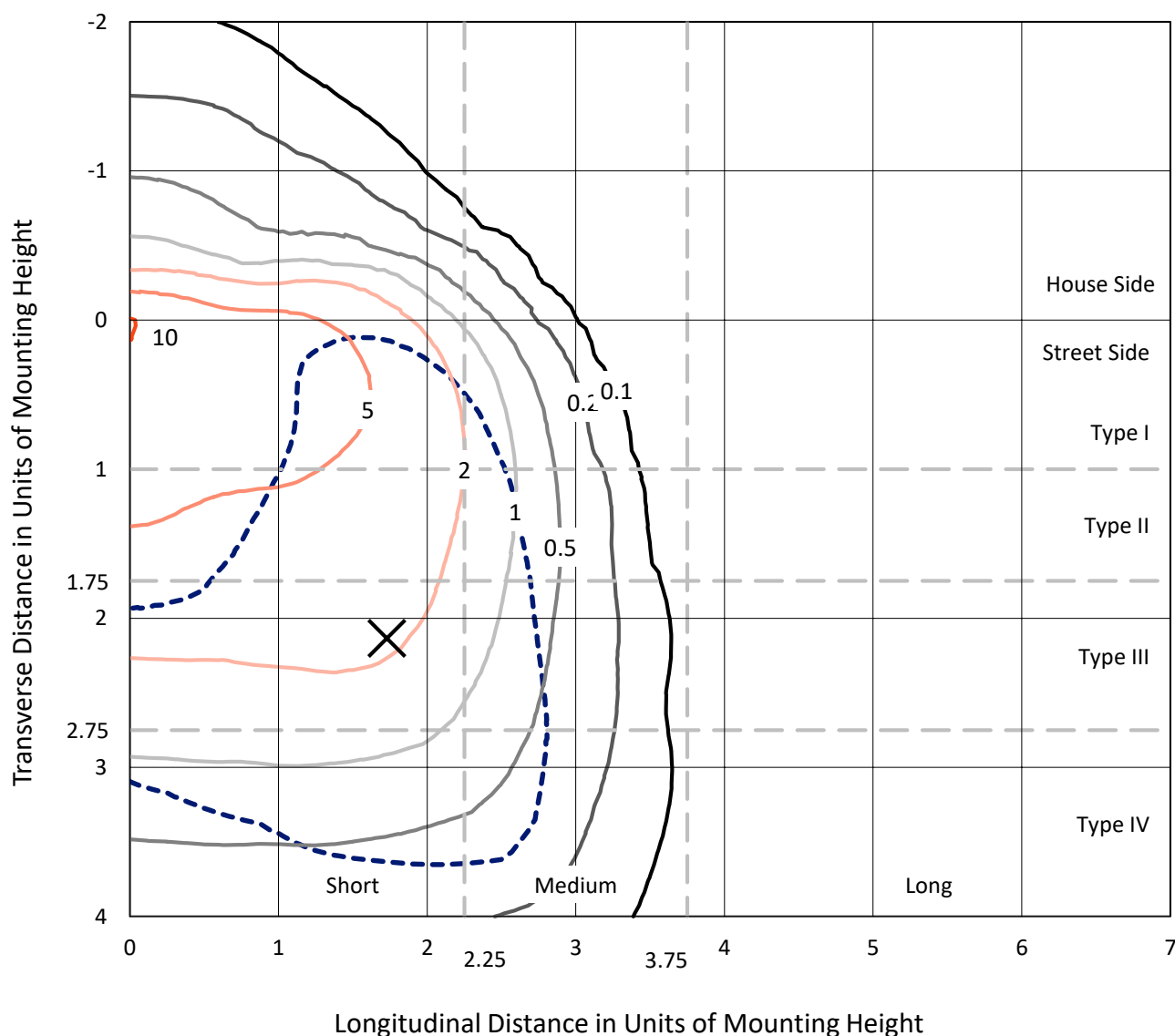
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

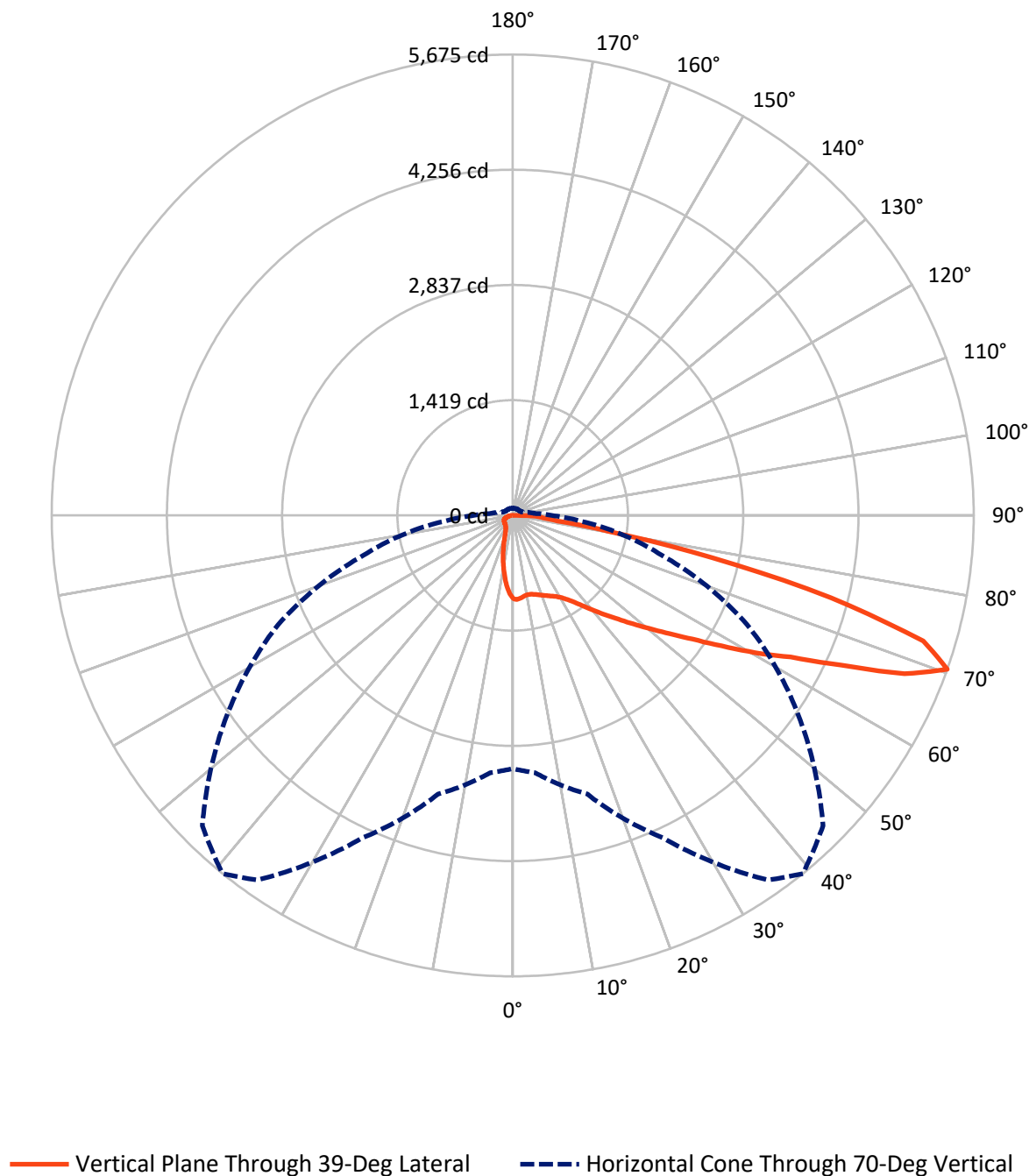


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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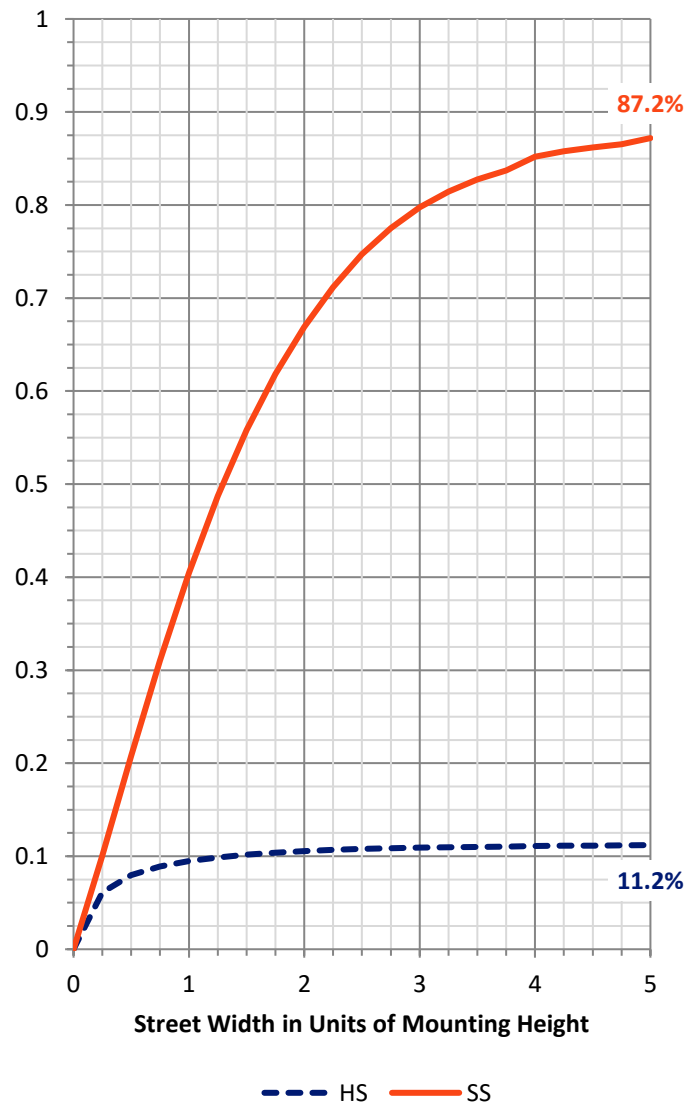
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 768.3    | 0.0    | 768.3  |
|                    | % Fixture | 11.4     | 0.0    | 11.4   |
| <b>Street Side</b> | Lumens    | 5987.2   | 0.0    | 5987.2 |
|                    | % Fixture | 88.6     | 0.0    | 88.6   |
| <b>Total</b>       | Lumens    | 6755.5   | 0.0    | 6755.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 88.0   | 1.3       |
| 10°-20°   | 220.0  | 3.3       |
| 20°-30°   | 342.5  | 5.1       |
| 30°-40°   | 533.6  | 7.9       |
| 40°-50°   | 895.9  | 13.3      |
| 50°-60°   | 1423.2 | 21.1      |
| 60°-70°   | 1898.4 | 28.1      |
| 70°-80°   | 1146.4 | 17.0      |
| 80°-90°   | 207.5  | 3.1       |
| 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°    | 6755.5 | 100.0     |
| 0°-180°   | 6755.5 | 100.0     |

**Coefficient of Utilization**



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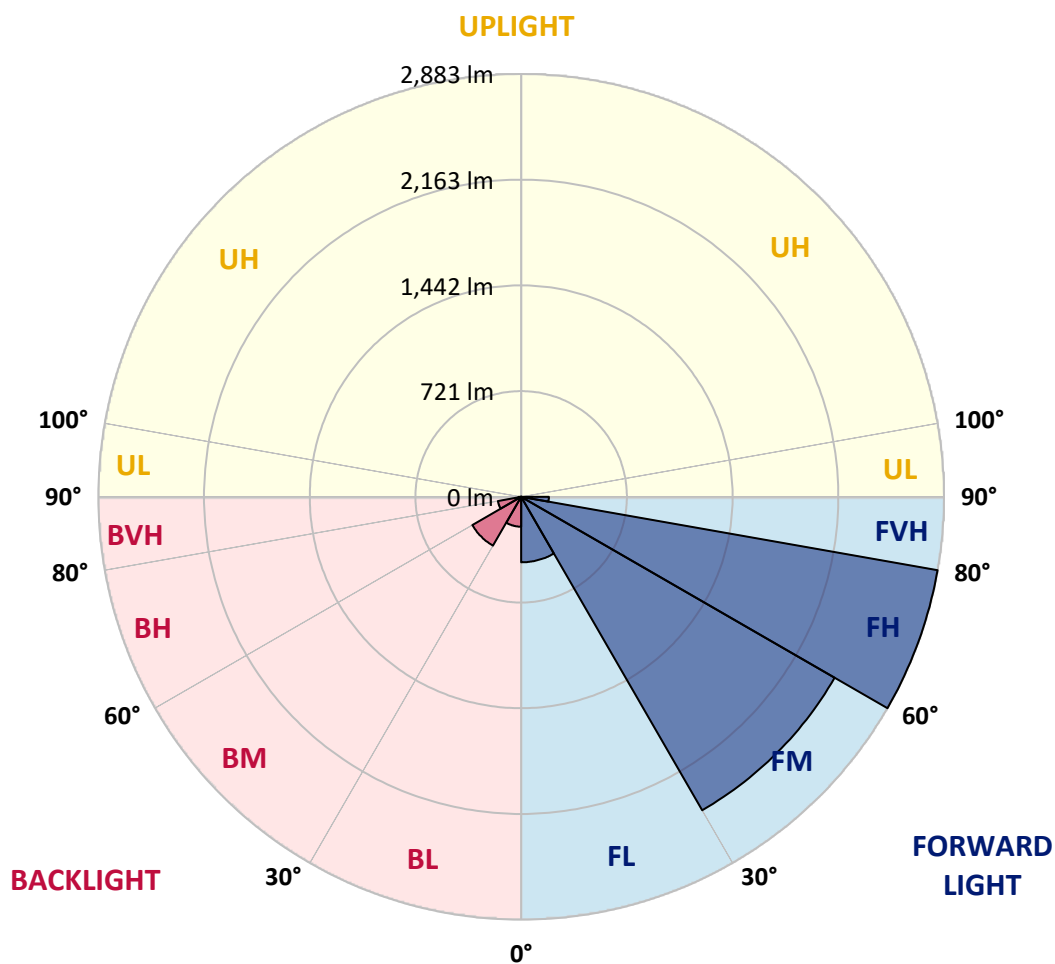
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 446.7  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 2468.2 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 2883.5 | 42.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 188.8  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 203.8  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 384.5  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 161.3  | 2.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 18.7   | 0.3       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 |
| 2.5°  | 1045.4 | 1045.2 | 1042.5 | 1040.3 | 1038.6 | 1037.9 | 1039.2 | 1034.2 | 1029.6 | 1024.2 | 1018.4 |
| 5°    | 1037.6 | 1037.3 | 1032.8 | 1028.6 | 1024.5 | 1023.2 | 1022.8 | 1013.6 | 1008.1 | 999.9  | 988.9  |
| 7.5°  | 1029.0 | 1027.3 | 1021.5 | 1014.5 | 1007.4 | 1003.9 | 1000.5 | 988.6  | 982.3  | 974.1  | 961.4  |
| 10°   | 1020.0 | 1018.0 | 1012.5 | 1005.7 | 998.8  | 993.6  | 987.9  | 976.2  | 969.6  | 963.4  | 948.7  |
| 12.5° | 1010.9 | 1009.1 | 1007.7 | 1004.7 | 999.9  | 995.4  | 990.9  | 980.9  | 974.1  | 966.8  | 949.7  |
| 15°   | 1009.4 | 1008.7 | 1011.9 | 1013.8 | 1011.1 | 1008.3 | 1003.5 | 995.1  | 987.9  | 980.6  | 958.3  |
| 17.5° | 1020.5 | 1020.0 | 1028.0 | 1033.5 | 1032.2 | 1027.3 | 1020.7 | 1011.1 | 1005.4 | 999.2  | 971.3  |
| 20°   | 1044.5 | 1046.2 | 1055.8 | 1063.1 | 1056.1 | 1049.3 | 1038.6 | 1025.2 | 1022.1 | 1019.3 | 984.7  |
| 22.5° | 1089.9 | 1091.5 | 1098.4 | 1101.1 | 1083.3 | 1073.4 | 1058.6 | 1041.3 | 1039.2 | 1041.3 | 1000.8 |
| 25°   | 1160.6 | 1158.9 | 1157.8 | 1147.6 | 1114.8 | 1099.4 | 1080.5 | 1062.7 | 1063.8 | 1072.9 | 1023.4 |
| 27.5° | 1254.4 | 1245.1 | 1230.7 | 1199.7 | 1147.9 | 1130.6 | 1107.7 | 1091.3 | 1097.6 | 1115.5 | 1057.6 |
| 30°   | 1351.5 | 1341.2 | 1307.9 | 1257.4 | 1191.2 | 1172.3 | 1146.4 | 1127.9 | 1145.1 | 1173.2 | 1102.8 |
| 32.5° | 1441.5 | 1440.2 | 1391.4 | 1326.4 | 1250.9 | 1234.5 | 1208.7 | 1187.6 | 1215.5 | 1258.4 | 1170.9 |
| 35°   | 1539.8 | 1542.8 | 1484.4 | 1406.4 | 1331.6 | 1314.5 | 1296.0 | 1280.2 | 1317.3 | 1376.3 | 1269.5 |
| 37.5° | 1644.8 | 1651.1 | 1582.1 | 1494.2 | 1423.6 | 1416.4 | 1405.5 | 1398.7 | 1456.0 | 1537.7 | 1407.1 |
| 40°   | 1785.3 | 1779.2 | 1683.3 | 1593.1 | 1536.7 | 1536.3 | 1532.9 | 1541.1 | 1636.6 | 1748.6 | 1584.2 |
| 42.5° | 1935.8 | 1917.6 | 1790.9 | 1699.1 | 1660.6 | 1672.4 | 1679.2 | 1712.9 | 1854.0 | 2004.7 | 1799.8 |
| 45°   | 2097.9 | 2056.9 | 1902.5 | 1811.4 | 1798.3 | 1823.1 | 1846.5 | 1919.7 | 2109.8 | 2296.4 | 2036.1 |
| 47.5° | 2227.3 | 2187.9 | 2017.9 | 1929.3 | 1957.8 | 1995.2 | 2040.2 | 2155.9 | 2396.4 | 2597.7 | 2269.3 |
| 50°   | 2329.5 | 2303.7 | 2134.4 | 2066.6 | 2133.3 | 2191.0 | 2264.4 | 2423.4 | 2694.5 | 2890.9 | 2485.3 |
| 52.5° | 2428.3 | 2409.1 | 2251.8 | 2207.4 | 2339.4 | 2419.0 | 2518.9 | 2710.6 | 3000.2 | 3179.6 | 2667.0 |
| 55°   | 2517.6 | 2503.8 | 2378.2 | 2382.9 | 2581.9 | 2685.6 | 2811.2 | 3037.6 | 3333.3 | 3436.7 | 2820.9 |
| 57.5° | 2618.3 | 2600.8 | 2522.4 | 2603.2 | 2893.4 | 3027.9 | 3191.5 | 3405.1 | 3646.0 | 3665.4 | 2938.0 |
| 60°   | 2719.6 | 2704.4 | 2682.5 | 2857.2 | 3289.1 | 3430.5 | 3585.4 | 3761.4 | 3963.0 | 3843.0 | 2931.2 |
| 62.5° | 2807.6 | 2809.2 | 2848.0 | 3124.1 | 3676.5 | 3840.3 | 4029.2 | 4203.0 | 4249.7 | 3874.0 | 2714.4 |
| 65°   | 2956.6 | 2983.7 | 3099.4 | 3502.0 | 4221.9 | 4441.0 | 4672.9 | 4645.0 | 4329.1 | 3585.1 | 2249.7 |
| 67.5° | 3133.7 | 3181.5 | 3416.2 | 4005.5 | 4911.3 | 5202.2 | 5291.8 | 4744.9 | 4011.3 | 2914.3 | 1603.7 |
| 70°   | 3116.0 | 3181.5 | 3552.8 | 4380.9 | 5479.3 | 5674.5 | 5402.3 | 4294.3 | 3185.3 | 1903.9 | 851.9  |
| 72.5° | 2767.0 | 2860.7 | 3274.3 | 4208.9 | 5300.4 | 5283.2 | 4690.1 | 3201.5 | 1892.5 | 764.5  | 332.8  |
| 75°   | 2109.0 | 2203.7 | 2559.5 | 3325.2 | 4189.2 | 4045.0 | 3328.0 | 1768.6 | 718.1  | 303.6  | 209.8  |
| 77.5° | 1213.2 | 1286.6 | 1561.4 | 2039.2 | 2657.7 | 2509.8 | 1852.3 | 786.6  | 349.6  | 211.6  | 163.9  |
| 80°   | 677.3  | 718.1  | 885.1  | 1034.5 | 1302.5 | 1193.8 | 828.7  | 488.8  | 261.0  | 153.5  | 126.4  |
| 82.5° | 535.5  | 572.0  | 715.8  | 652.6  | 594.9  | 548.9  | 476.0  | 435.1  | 208.4  | 96.8   | 75.5   |
| 85°   | 467.7  | 502.5  | 605.8  | 513.8  | 406.4  | 372.6  | 386.7  | 428.3  | 162.1  | 58.4   | 64.6   |
| 87.5° | 433.4  | 479.9  | 539.9  | 396.1  | 316.4  | 280.4  | 356.8  | 469.5  | 52.2   | 36.4   | 26.1   |
| 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°    | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 | 1025.5 |
| 2.5°  | 1013.2 | 1007.7 | 998.8  | 990.9  | 978.6  | 972.1  | 964.8  | 959.7  | 955.5  | 952.2  | 957.7  |
| 5°    | 981.9  | 971.6  | 952.8  | 932.5  | 908.5  | 889.6  | 873.8  | 859.0  | 848.7  | 841.8  | 846.7  |
| 7.5°  | 952.5  | 935.7  | 906.1  | 869.3  | 828.1  | 793.1  | 764.2  | 738.8  | 721.2  | 709.9  | 714.4  |
| 10°   | 935.7  | 914.7  | 869.0  | 811.3  | 750.4  | 695.8  | 650.6  | 611.3  | 584.3  | 568.7  | 571.2  |
| 12.5° | 931.5  | 904.4  | 841.2  | 761.9  | 678.7  | 602.9  | 539.0  | 484.6  | 446.5  | 426.5  | 427.2  |
| 15°   | 934.5  | 899.9  | 815.0  | 714.4  | 609.3  | 513.6  | 433.8  | 367.9  | 323.6  | 300.9  | 300.6  |
| 17.5° | 939.7  | 896.5  | 787.5  | 663.3  | 539.0  | 427.7  | 338.7  | 274.2  | 234.9  | 216.8  | 215.4  |
| 20°   | 945.2  | 890.9  | 756.6  | 608.0  | 465.7  | 348.0  | 265.2  | 214.7  | 189.9  | 180.0  | 179.3  |
| 22.5° | 953.1  | 886.2  | 724.8  | 549.6  | 393.9  | 283.3  | 218.1  | 184.2  | 171.0  | 165.8  | 165.2  |
| 25°   | 965.9  | 883.8  | 690.6  | 488.8  | 329.4  | 237.1  | 189.9  | 169.1  | 161.4  | 158.0  | 157.7  |
| 27.5° | 987.1  | 887.2  | 658.7  | 429.7  | 276.9  | 205.7  | 174.1  | 161.4  | 155.9  | 152.8  | 152.5  |
| 30°   | 1014.5 | 897.9  | 625.1  | 373.6  | 236.0  | 184.4  | 164.5  | 156.2  | 151.9  | 148.7  | 148.7  |
| 32.5° | 1060.3 | 915.7  | 589.7  | 325.2  | 206.8  | 169.7  | 157.4  | 151.9  | 148.0  | 145.6  | 145.3  |
| 35°   | 1127.6 | 949.4  | 556.8  | 285.1  | 185.8  | 159.0  | 151.2  | 147.1  | 144.3  | 142.9  | 142.9  |
| 37.5° | 1225.5 | 1002.6 | 527.6  | 256.2  | 173.2  | 151.9  | 145.3  | 142.2  | 140.4  | 140.4  | 140.4  |
| 40°   | 1357.0 | 1076.1 | 503.9  | 237.1  | 165.8  | 146.7  | 140.9  | 138.3  | 137.4  | 137.7  | 137.7  |
| 42.5° | 1519.6 | 1171.6 | 488.0  | 223.6  | 162.5  | 143.5  | 137.7  | 135.6  | 134.7  | 134.2  | 134.7  |
| 45°   | 1704.7 | 1280.2 | 486.3  | 213.6  | 159.0  | 141.6  | 135.6  | 133.6  | 131.5  | 130.2  | 130.2  |
| 47.5° | 1884.6 | 1390.3 | 500.4  | 210.3  | 155.2  | 139.1  | 133.9  | 132.0  | 128.7  | 125.8  | 125.8  |
| 50°   | 2043.6 | 1484.1 | 519.3  | 211.6  | 153.9  | 135.6  | 131.2  | 130.2  | 125.4  | 121.9  | 121.6  |
| 52.5° | 2170.0 | 1556.3 | 534.9  | 215.8  | 155.2  | 133.3  | 127.7  | 128.1  | 123.0  | 119.1  | 118.8  |
| 55°   | 2271.4 | 1603.7 | 530.7  | 219.8  | 158.3  | 132.0  | 124.7  | 125.4  | 121.2  | 117.5  | 117.5  |
| 57.5° | 2315.7 | 1586.1 | 484.9  | 216.4  | 160.7  | 132.2  | 122.3  | 125.0  | 121.6  | 118.1  | 118.1  |
| 60°   | 2220.5 | 1430.6 | 399.4  | 201.3  | 157.7  | 131.2  | 121.2  | 126.4  | 126.0  | 122.6  | 122.3  |
| 62.5° | 1932.8 | 1151.9 | 309.8  | 178.9  | 147.1  | 126.0  | 118.4  | 126.0  | 129.8  | 128.7  | 128.5  |
| 65°   | 1489.6 | 820.5  | 236.7  | 154.9  | 132.6  | 117.5  | 111.3  | 118.1  | 123.2  | 124.7  | 124.3  |
| 67.5° | 966.8  | 502.8  | 182.4  | 132.2  | 116.4  | 107.4  | 102.0  | 105.1  | 106.1  | 106.1  | 105.5  |
| 70°   | 475.4  | 270.7  | 145.3  | 111.3  | 99.9   | 96.8   | 93.8   | 92.0   | 90.3   | 88.9   | 88.9   |
| 72.5° | 234.5  | 176.8  | 119.6  | 94.1   | 86.1   | 84.8   | 84.1   | 82.0   | 80.7   | 79.1   | 78.3   |
| 75°   | 173.5  | 143.9  | 101.7  | 79.3   | 74.2   | 72.9   | 74.2   | 72.5   | 72.1   | 70.7   | 70.1   |
| 77.5° | 142.6  | 122.6  | 87.6   | 68.0   | 63.5   | 61.2   | 63.2   | 63.5   | 63.9   | 61.9   | 61.2   |
| 80°   | 115.7  | 103.8  | 73.1   | 56.4   | 52.2   | 50.5   | 51.8   | 54.5   | 55.2   | 52.2   | 50.8   |
| 82.5° | 83.5   | 84.8   | 59.1   | 43.9   | 40.6   | 39.2   | 42.0   | 45.4   | 46.1   | 41.5   | 40.6   |
| 85°   | 70.1   | 70.7   | 45.4   | 31.3   | 27.8   | 25.7   | 30.3   | 33.6   | 36.0   | 31.6   | 30.5   |
| 87.5° | 29.1   | 41.5   | 26.1   | 17.4   | 15.5   | 13.4   | 16.1   | 17.8   | 21.6   | 19.9   | 19.6   |
| 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)