

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: P269814

Luminaire Tested: **GAP-AF-01-LED-U-SLR-7027-600**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P269814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-01-LED-U-SLR-7027-600  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3197.7 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 34  
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

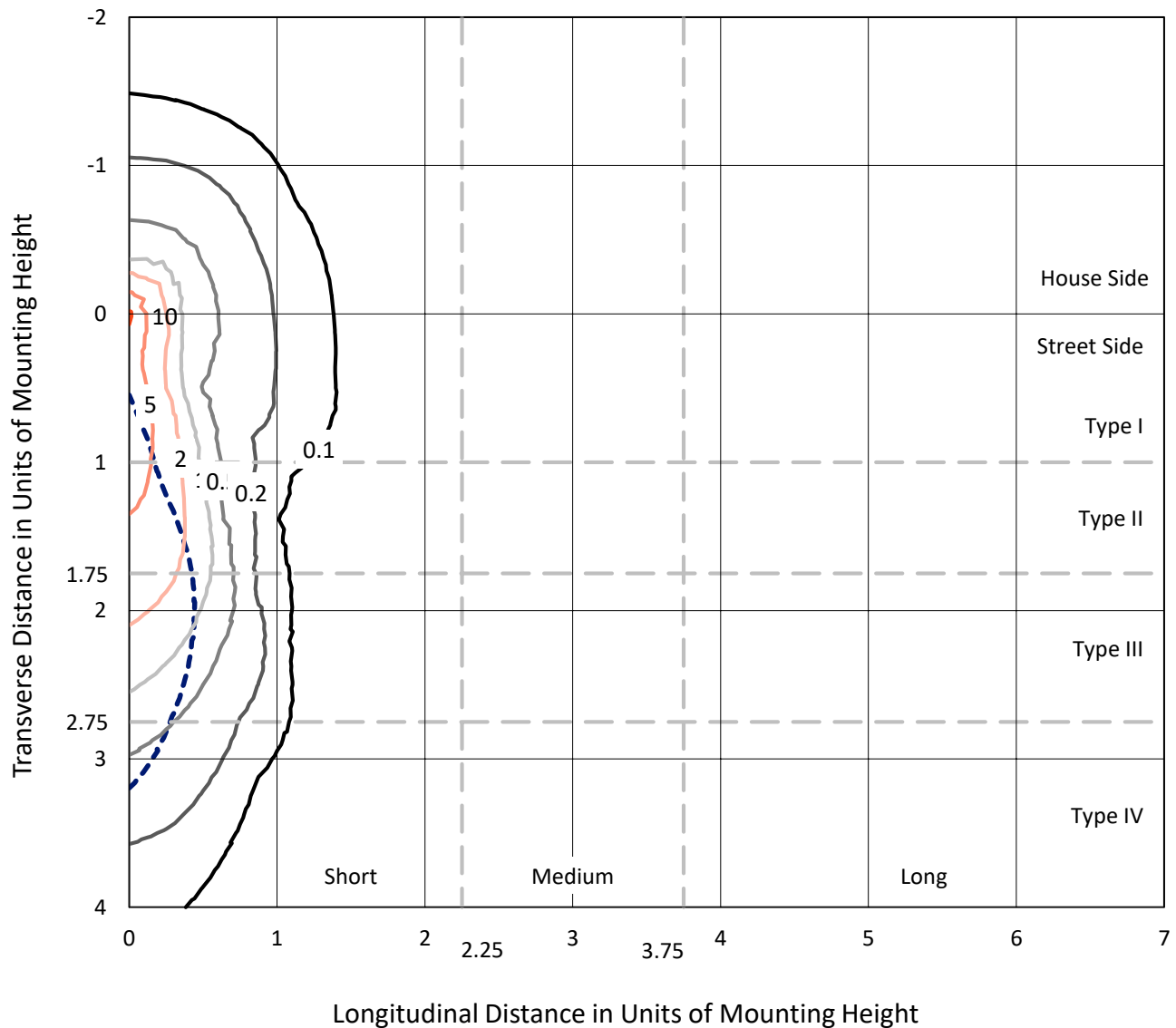


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

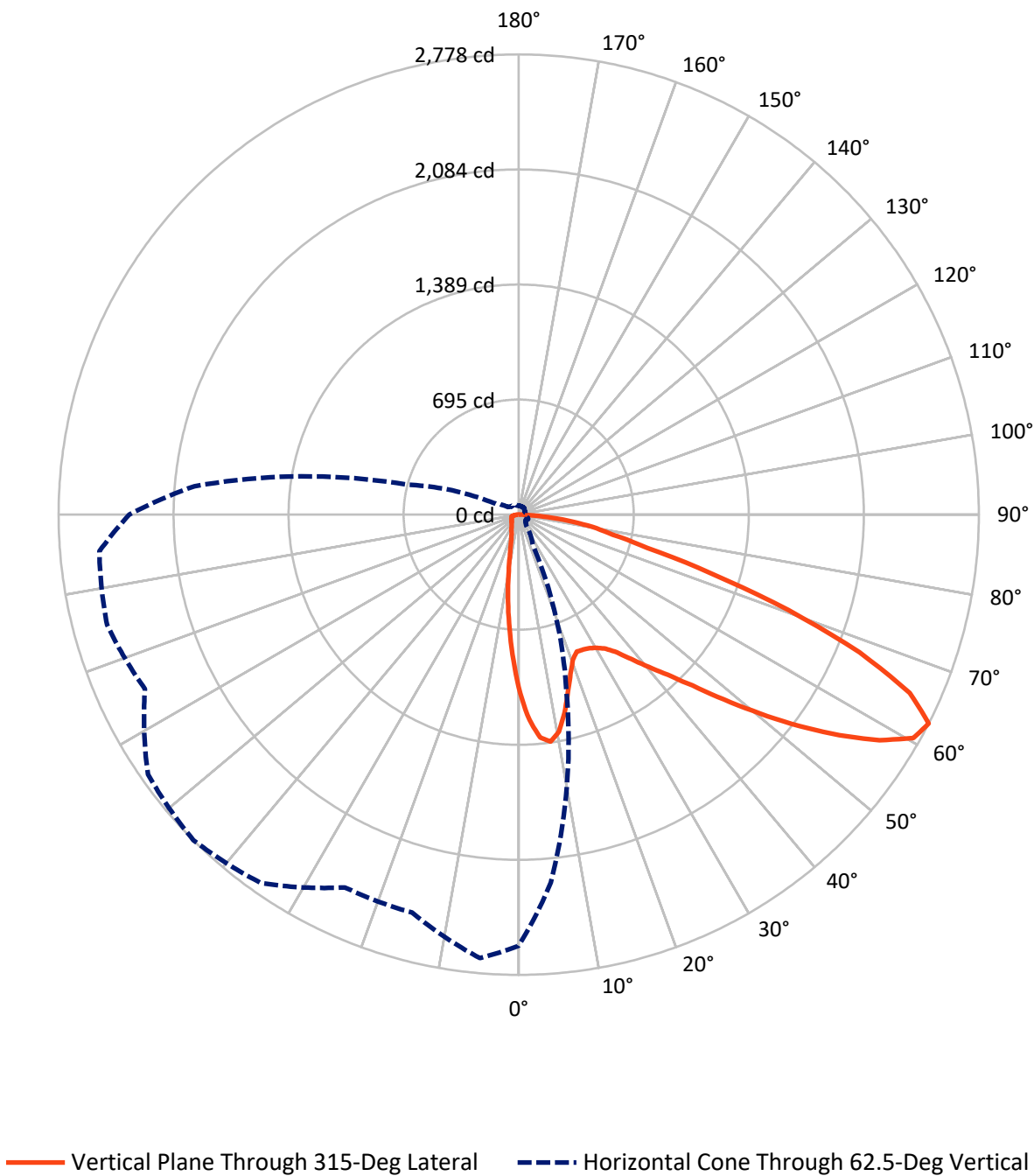


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 529.2    | 0.0    | 529.2  |
|                    | % Fixture | 16.5     | 0.0    | 16.5   |
| <b>Street Side</b> | Lumens    | 2668.5   | 0.0    | 2668.5 |
|                    | % Fixture | 83.5     | 0.0    | 83.5   |
| <b>Total</b>       | Lumens    | 3197.7   | 0.0    | 3197.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.6   | 2.5       |
| 10°-20°   | 144.2  | 4.5       |
| 20°-30°   | 210.3  | 6.6       |
| 30°-40°   | 323.8  | 10.1      |
| 40°-50°   | 476.6  | 14.9      |
| 50°-60°   | 699.1  | 21.9      |
| 60°-70°   | 781.4  | 24.4      |
| 70°-80°   | 382.6  | 12.0      |
| 80°-90°   | 101.0  | 3.2       |
| 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°    | 3197.7 | 100.0     |
| 0°-180°   | 3197.7 | 100.0     |

**Coefficient of Utilization**



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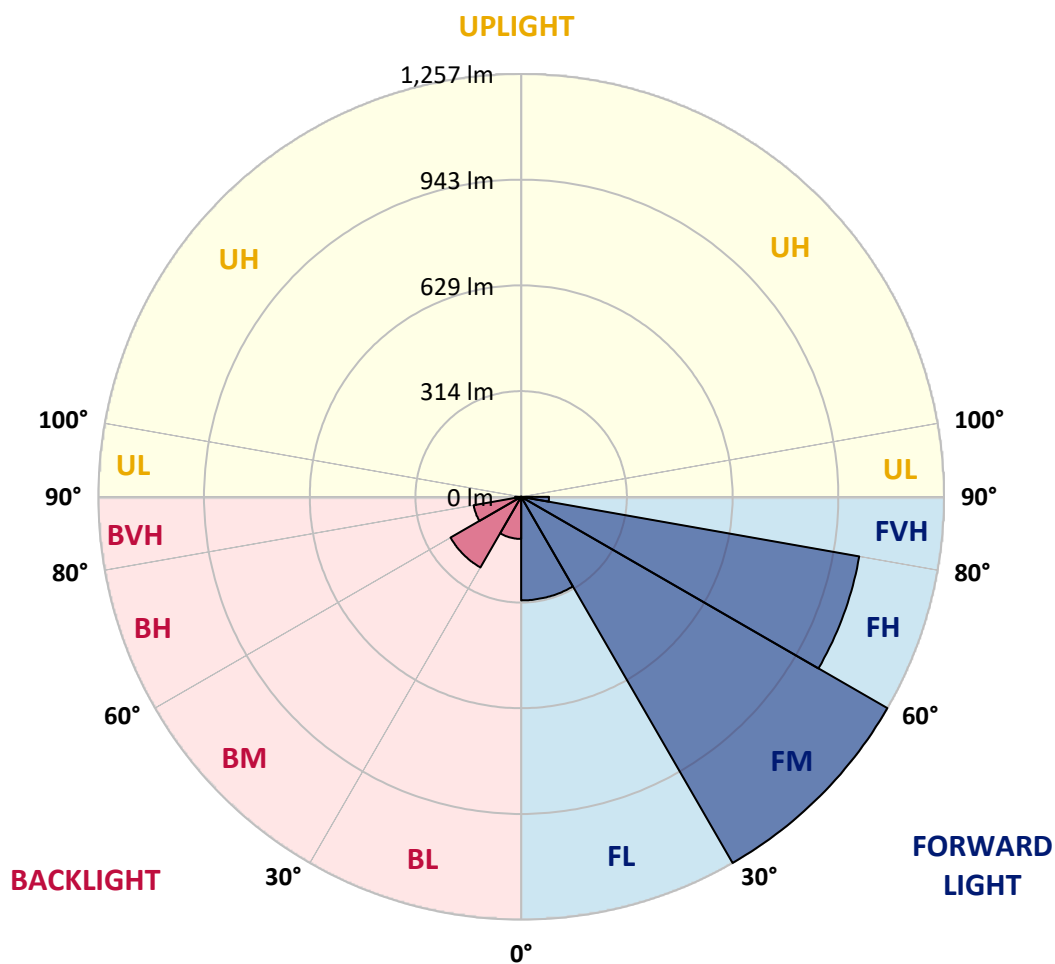
CATALOG NUMBER: GAP-AF-01-LED-U-SLR-7027-600

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 307.9  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 1257.0 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 1020.6 | 31.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 83.0   | 2.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 125.2  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 242.5  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 143.5  | 4.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 18.1   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 |
| 2.5°  | 1122.5 | 1099.6 | 1061.6 | 1022.1 | 998.0  | 970.0  | 948.0  | 928.7  | 890.0  | 882.5  | 889.2  |
| 5°    | 1055.6 | 1009.7 | 938.1  | 866.1  | 818.0  | 766.6  | 726.5  | 694.3  | 645.3  | 636.7  | 647.0  |
| 7.5°  | 948.2  | 893.4  | 798.8  | 706.7  | 639.0  | 574.6  | 531.3  | 496.9  | 458.7  | 442.1  | 443.1  |
| 10°   | 855.5  | 793.7  | 681.9  | 581.8  | 526.2  | 482.8  | 446.5  | 411.2  | 372.3  | 346.8  | 339.7  |
| 12.5° | 803.7  | 732.5  | 603.7  | 514.3  | 462.8  | 417.2  | 377.9  | 340.2  | 298.6  | 272.6  | 265.3  |
| 15°   | 794.7  | 717.3  | 574.2  | 471.2  | 406.7  | 348.7  | 302.5  | 260.2  | 217.6  | 196.5  | 192.1  |
| 17.5° | 833.5  | 744.4  | 564.8  | 432.7  | 353.7  | 282.2  | 225.6  | 178.5  | 143.5  | 133.0  | 132.2  |
| 20°   | 908.0  | 796.4  | 563.5  | 396.4  | 301.6  | 217.7  | 157.2  | 122.9  | 107.5  | 104.7  | 104.7  |
| 22.5° | 1012.7 | 877.1  | 578.7  | 369.2  | 253.5  | 162.5  | 118.1  | 102.9  | 96.8   | 94.1   | 94.1   |
| 25°   | 1148.0 | 988.2  | 613.5  | 349.4  | 211.8  | 129.7  | 104.3  | 95.1   | 89.6   | 87.6   | 87.9   |
| 27.5° | 1279.1 | 1096.3 | 653.8  | 333.6  | 184.6  | 117.8  | 98.9   | 90.5   | 85.6   | 83.6   | 84.5   |
| 30°   | 1381.5 | 1192.3 | 687.7  | 312.4  | 170.7  | 114.4  | 100.7  | 92.3   | 85.2   | 82.3   | 82.5   |
| 32.5° | 1466.2 | 1276.3 | 715.9  | 297.1  | 158.5  | 98.1   | 86.9   | 83.2   | 82.3   | 78.7   | 77.0   |
| 35°   | 1574.5 | 1367.8 | 735.0  | 297.3  | 152.6  | 87.6   | 77.3   | 70.8   | 66.0   | 62.1   | 62.1   |
| 37.5° | 1701.4 | 1473.0 | 755.1  | 301.6  | 150.5  | 81.3   | 74.0   | 67.6   | 63.2   | 59.3   | 58.5   |
| 40°   | 1827.0 | 1576.0 | 773.6  | 305.3  | 149.3  | 77.8   | 71.3   | 65.3   | 61.4   | 57.5   | 56.5   |
| 42.5° | 1933.6 | 1660.7 | 790.1  | 307.3  | 145.0  | 77.3   | 69.3   | 64.0   | 60.1   | 56.0   | 54.8   |
| 45°   | 2012.6 | 1731.8 | 807.8  | 310.3  | 140.9  | 78.7   | 69.3   | 63.8   | 59.1   | 55.1   | 54.0   |
| 47.5° | 2083.0 | 1815.1 | 837.6  | 310.3  | 135.7  | 76.0   | 71.8   | 64.0   | 58.8   | 54.6   | 53.8   |
| 50°   | 2177.4 | 1929.4 | 893.9  | 303.1  | 128.5  | 73.3   | 75.5   | 63.3   | 57.3   | 54.0   | 52.9   |
| 52.5° | 2307.4 | 2075.9 | 983.1  | 290.5  | 117.4  | 67.8   | 75.1   | 62.9   | 55.8   | 52.2   | 50.9   |
| 55°   | 2461.3 | 2232.6 | 1080.5 | 276.0  | 100.9  | 64.0   | 72.5   | 62.1   | 54.0   | 50.0   | 48.9   |
| 57.5° | 2581.3 | 2340.5 | 1149.1 | 253.5  | 86.4   | 61.9   | 64.1   | 61.2   | 51.8   | 47.8   | 46.7   |
| 60°   | 2629.1 | 2336.3 | 1167.8 | 223.4  | 79.5   | 60.1   | 56.1   | 68.5   | 50.0   | 46.1   | 44.8   |
| 62.5° | 2603.3 | 2228.3 | 1115.2 | 202.3  | 77.9   | 57.9   | 52.6   | 63.5   | 48.7   | 44.8   | 43.1   |
| 65°   | 2484.0 | 2037.1 | 975.4  | 196.6  | 82.5   | 55.5   | 50.2   | 49.8   | 46.7   | 43.1   | 41.3   |
| 67.5° | 2223.9 | 1751.2 | 780.9  | 197.2  | 88.3   | 53.3   | 48.0   | 45.5   | 44.1   | 41.1   | 39.5   |
| 70°   | 1811.4 | 1384.6 | 582.2  | 198.6  | 91.3   | 50.7   | 45.5   | 42.8   | 41.3   | 38.3   | 37.3   |
| 72.5° | 1331.8 | 1067.1 | 422.9  | 189.5  | 91.7   | 47.6   | 42.2   | 40.0   | 38.3   | 35.2   | 34.2   |
| 75°   | 911.2  | 816.3  | 293.3  | 156.9  | 79.9   | 43.4   | 38.4   | 36.4   | 35.4   | 31.5   | 30.9   |
| 77.5° | 665.6  | 612.7  | 187.7  | 116.5  | 61.8   | 38.2   | 34.0   | 32.3   | 31.6   | 27.4   | 26.7   |
| 80°   | 534.2  | 484.7  | 117.4  | 79.8   | 45.2   | 32.0   | 28.4   | 27.6   | 26.9   | 22.6   | 22.2   |
| 82.5° | 370.6  | 324.6  | 75.4   | 51.8   | 34.0   | 24.9   | 22.5   | 22.2   | 21.1   | 17.2   | 16.7   |
| 85°   | 195.6  | 176.2  | 47.8   | 35.4   | 24.7   | 17.1   | 15.6   | 15.6   | 15.1   | 11.4   | 11.0   |
| 87.5° | 25.0   | 40.7   | 24.3   | 18.4   | 13.6   | 7.5    | 7.5    | 7.4    | 7.9    | 6.5    | 5.6    |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 |
| 2.5°  | 873.2  | 881.5  | 873.4  | 874.1  | 882.9  | 909.7  | 921.8  | 931.8  | 942.5  | 949.6  | 952.7  |
| 5°    | 632.8  | 652.4  | 659.1  | 673.2  | 694.0  | 728.0  | 741.6  | 751.4  | 758.0  | 761.9  | 763.4  |
| 7.5°  | 432.8  | 444.8  | 458.0  | 480.8  | 526.0  | 546.0  | 555.0  | 552.6  | 545.4  | 542.7  | 540.1  |
| 10°   | 326.3  | 321.6  | 319.1  | 331.6  | 368.0  | 388.2  | 394.6  | 388.4  | 384.5  | 385.4  | 389.8  |
| 12.5° | 252.8  | 244.5  | 234.5  | 233.1  | 257.2  | 275.3  | 279.4  | 279.6  | 287.1  | 293.6  | 303.2  |
| 15°   | 184.2  | 183.3  | 178.5  | 175.3  | 189.2  | 203.9  | 205.6  | 208.9  | 215.6  | 220.3  | 228.7  |
| 17.5° | 130.0  | 134.7  | 138.5  | 140.4  | 150.8  | 161.3  | 159.4  | 157.8  | 156.7  | 156.7  | 160.6  |
| 20°   | 104.7  | 107.9  | 112.8  | 118.4  | 129.0  | 136.5  | 131.6  | 125.4  | 120.7  | 119.4  | 119.8  |
| 22.5° | 94.4   | 96.8   | 99.6   | 104.7  | 114.1  | 119.1  | 114.1  | 109.6  | 104.9  | 103.3  | 102.9  |
| 25°   | 89.1   | 92.3   | 95.0   | 98.6   | 105.6  | 109.1  | 104.3  | 100.9  | 98.1   | 96.2   | 94.7   |
| 27.5° | 86.1   | 88.9   | 89.7   | 91.4   | 97.3   | 100.5  | 98.1   | 96.7   | 95.0   | 93.2   | 91.4   |
| 30°   | 83.0   | 82.5   | 81.1   | 81.3   | 86.1   | 89.3   | 89.1   | 89.6   | 89.3   | 88.8   | 88.5   |
| 32.5° | 75.7   | 74.6   | 73.7   | 74.6   | 79.1   | 81.9   | 82.0   | 82.9   | 82.9   | 82.6   | 84.0   |
| 35°   | 63.2   | 65.0   | 66.3   | 69.3   | 74.6   | 77.2   | 76.0   | 74.4   | 71.1   | 69.3   | 69.1   |
| 37.5° | 58.4   | 58.7   | 60.8   | 65.1   | 71.1   | 73.3   | 71.8   | 67.7   | 65.5   | 65.1   | 65.8   |
| 40°   | 56.1   | 56.5   | 57.6   | 61.8   | 67.6   | 69.8   | 68.5   | 65.3   | 63.5   | 63.3   | 64.1   |
| 42.5° | 54.4   | 54.8   | 55.5   | 58.4   | 63.2   | 65.9   | 66.0   | 64.0   | 61.8   | 61.9   | 62.7   |
| 45°   | 53.5   | 53.8   | 53.5   | 55.1   | 59.4   | 62.7   | 64.1   | 62.7   | 60.8   | 61.2   | 62.3   |
| 47.5° | 53.4   | 52.9   | 52.2   | 52.6   | 57.1   | 60.5   | 62.3   | 61.8   | 60.8   | 61.2   | 62.1   |
| 50°   | 52.7   | 51.6   | 50.7   | 50.5   | 55.1   | 58.5   | 60.1   | 60.1   | 60.5   | 61.2   | 62.1   |
| 52.5° | 50.7   | 49.1   | 49.1   | 48.7   | 53.5   | 57.0   | 58.0   | 58.2   | 58.7   | 59.9   | 61.2   |
| 55°   | 48.0   | 47.5   | 48.0   | 47.2   | 52.6   | 55.8   | 56.2   | 56.7   | 57.0   | 58.0   | 59.7   |
| 57.5° | 45.8   | 44.9   | 46.3   | 45.9   | 51.7   | 54.4   | 54.4   | 55.2   | 55.2   | 56.7   | 58.0   |
| 60°   | 44.5   | 43.1   | 43.6   | 43.9   | 50.5   | 53.4   | 53.1   | 53.8   | 54.2   | 55.3   | 56.5   |
| 62.5° | 42.8   | 41.6   | 41.6   | 42.5   | 49.0   | 51.8   | 51.7   | 52.2   | 53.5   | 54.0   | 55.1   |
| 65°   | 41.0   | 40.5   | 40.0   | 41.0   | 47.6   | 50.0   | 50.2   | 50.9   | 52.2   | 52.6   | 53.4   |
| 67.5° | 39.0   | 39.2   | 38.2   | 39.2   | 46.4   | 48.4   | 48.4   | 49.8   | 50.2   | 50.9   | 51.8   |
| 70°   | 36.9   | 37.1   | 36.2   | 37.4   | 45.5   | 46.4   | 46.3   | 48.1   | 48.5   | 49.0   | 49.9   |
| 72.5° | 34.2   | 34.2   | 34.0   | 35.8   | 44.1   | 44.5   | 44.1   | 45.8   | 45.9   | 46.4   | 46.7   |
| 75°   | 31.5   | 31.5   | 31.1   | 33.5   | 43.3   | 42.4   | 41.3   | 42.5   | 42.8   | 43.3   | 43.3   |
| 77.5° | 27.8   | 28.1   | 28.1   | 31.1   | 40.2   | 41.5   | 38.0   | 38.6   | 39.2   | 39.3   | 38.8   |
| 80°   | 23.1   | 24.1   | 24.4   | 28.2   | 33.7   | 38.3   | 34.0   | 34.5   | 34.7   | 34.7   | 34.0   |
| 82.5° | 17.7   | 19.4   | 20.2   | 24.4   | 25.8   | 32.2   | 29.6   | 30.1   | 29.6   | 28.4   | 28.1   |
| 85°   | 12.2   | 14.5   | 15.5   | 18.7   | 19.6   | 24.9   | 24.7   | 24.7   | 23.5   | 22.2   | 22.0   |
| 87.5° | 6.6    | 7.9    | 8.7    | 11.0   | 13.4   | 16.7   | 18.1   | 17.5   | 16.7   | 15.8   | 16.0   |
| 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 |
| 2.5°  | 969.2  | 993.2  | 1031.3 | 1060.4 | 1089.9 | 1118.1 | 1148.8 | 1172.1 | 1192.1 | 1199.6 | 1223.2 |
| 5°    | 779.4  | 809.4  | 845.3  | 910.3  | 956.4  | 1007.2 | 1065.8 | 1143.6 | 1173.5 | 1214.8 | 1282.5 |
| 7.5°  | 551.1  | 578.1  | 636.2  | 688.7  | 753.9  | 825.8  | 905.1  | 1012.3 | 1051.6 | 1117.9 | 1228.1 |
| 10°   | 411.6  | 443.0  | 489.5  | 533.9  | 591.4  | 664.7  | 755.8  | 875.8  | 923.4  | 995.2  | 1122.3 |
| 12.5° | 331.6  | 368.7  | 418.0  | 459.7  | 504.0  | 556.1  | 644.4  | 775.9  | 839.6  | 902.6  | 1031.0 |
| 15°   | 254.7  | 293.6  | 339.4  | 392.3  | 441.3  | 497.3  | 589.8  | 733.6  | 807.1  | 872.8  | 982.2  |
| 17.5° | 176.2  | 209.6  | 267.3  | 322.5  | 385.4  | 456.9  | 574.7  | 742.7  | 830.5  | 906.0  | 990.7  |
| 20°   | 125.0  | 144.0  | 191.3  | 255.4  | 333.6  | 423.5  | 572.0  | 789.8  | 903.9  | 990.2  | 1044.9 |
| 22.5° | 105.1  | 112.2  | 139.7  | 198.4  | 288.9  | 398.5  | 581.8  | 855.8  | 1003.0 | 1113.2 | 1131.1 |
| 25°   | 95.8   | 100.0  | 114.4  | 155.8  | 248.9  | 380.4  | 615.1  | 954.3  | 1125.7 | 1236.2 | 1233.2 |
| 27.5° | 90.6   | 95.1   | 104.7  | 131.5  | 218.8  | 369.2  | 648.2  | 1071.0 | 1266.0 | 1369.8 | 1330.5 |
| 30°   | 89.1   | 95.1   | 105.1  | 124.0  | 197.4  | 351.3  | 675.5  | 1173.5 | 1373.9 | 1460.0 | 1374.8 |
| 32.5° | 87.9   | 88.8   | 93.3   | 106.9  | 177.1  | 330.7  | 694.0  | 1265.4 | 1479.6 | 1545.9 | 1438.5 |
| 35°   | 71.1   | 75.4   | 82.9   | 95.8   | 165.1  | 318.2  | 694.0  | 1344.8 | 1583.6 | 1632.5 | 1499.5 |
| 37.5° | 68.5   | 72.3   | 78.7   | 89.8   | 158.5  | 312.0  | 680.0  | 1421.2 | 1689.9 | 1730.8 | 1549.4 |
| 40°   | 67.0   | 70.2   | 76.3   | 85.2   | 155.5  | 305.0  | 659.9  | 1488.8 | 1793.8 | 1829.2 | 1596.3 |
| 42.5° | 65.9   | 68.7   | 74.5   | 82.5   | 151.9  | 297.2  | 643.5  | 1542.7 | 1884.0 | 1913.2 | 1640.9 |
| 45°   | 65.3   | 68.5   | 74.6   | 83.8   | 144.4  | 287.1  | 638.1  | 1601.4 | 1958.1 | 1983.3 | 1689.3 |
| 47.5° | 65.3   | 68.9   | 75.5   | 86.9   | 135.7  | 276.5  | 655.1  | 1678.6 | 2028.4 | 2040.6 | 1746.1 |
| 50°   | 64.9   | 68.7   | 78.1   | 83.8   | 122.9  | 263.2  | 695.2  | 1775.7 | 2104.3 | 2105.6 | 1818.3 |
| 52.5° | 63.8   | 68.5   | 84.0   | 82.0   | 108.1  | 245.5  | 749.4  | 1900.5 | 2216.6 | 2225.0 | 1931.1 |
| 55°   | 62.6   | 67.8   | 82.5   | 78.1   | 95.9   | 224.7  | 793.7  | 2052.3 | 2374.4 | 2397.8 | 2097.1 |
| 57.5° | 60.9   | 67.2   | 79.8   | 72.5   | 88.0   | 197.7  | 809.6  | 2163.3 | 2484.6 | 2543.3 | 2284.1 |
| 60°   | 59.6   | 66.7   | 72.0   | 69.1   | 83.2   | 175.1  | 778.7  | 2141.4 | 2477.0 | 2603.6 | 2449.9 |
| 62.5° | 58.2   | 67.2   | 65.8   | 67.0   | 80.8   | 160.4  | 697.9  | 1965.4 | 2351.8 | 2541.5 | 2572.7 |
| 65°   | 56.7   | 62.4   | 62.1   | 65.1   | 80.3   | 154.7  | 578.5  | 1701.6 | 2109.5 | 2344.8 | 2601.8 |
| 67.5° | 54.4   | 57.6   | 59.4   | 62.9   | 82.0   | 149.6  | 466.8  | 1403.6 | 1773.0 | 2049.9 | 2450.5 |
| 70°   | 52.2   | 54.8   | 56.8   | 60.1   | 81.0   | 147.3  | 388.2  | 1106.9 | 1406.7 | 1680.1 | 2152.2 |
| 72.5° | 49.1   | 51.6   | 53.3   | 56.5   | 79.9   | 146.1  | 328.1  | 891.4  | 1050.3 | 1248.0 | 1749.9 |
| 75°   | 45.8   | 47.8   | 49.0   | 52.2   | 76.6   | 133.8  | 257.9  | 754.2  | 785.8  | 868.2  | 1393.8 |
| 77.5° | 41.6   | 43.3   | 44.2   | 47.8   | 67.8   | 111.3  | 186.5  | 581.8  | 610.3  | 630.3  | 1068.5 |
| 80°   | 36.9   | 38.4   | 39.0   | 42.4   | 56.2   | 87.0   | 121.6  | 429.7  | 456.5  | 461.1  | 697.9  |
| 82.5° | 31.5   | 33.1   | 33.1   | 36.2   | 46.1   | 62.6   | 79.8   | 294.5  | 299.8  | 315.1  | 493.2  |
| 85°   | 25.3   | 26.5   | 26.5   | 28.1   | 35.8   | 46.7   | 54.8   | 147.9  | 146.2  | 166.9  | 427.4  |
| 87.5° | 18.1   | 19.0   | 19.9   | 20.2   | 25.5   | 30.9   | 33.1   | 44.9   | 29.7   | 34.0   | 274.4  |
| 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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| 0°    | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 | 1080.3 |
| 2.5°  | 1241.0 | 1251.0 | 1240.7 | 1233.5 | 1201.7 | 1175.4 | 1140.5 | 1122.5 |
| 5°    | 1334.1 | 1359.5 | 1351.0 | 1319.9 | 1253.5 | 1178.8 | 1093.9 | 1055.6 |
| 7.5°  | 1322.8 | 1382.0 | 1383.4 | 1325.5 | 1227.7 | 1117.6 | 1002.7 | 948.2  |
| 10°   | 1235.2 | 1310.9 | 1332.5 | 1276.5 | 1172.6 | 1049.6 | 917.8  | 855.5  |
| 12.5° | 1137.4 | 1211.6 | 1228.2 | 1208.8 | 1122.1 | 998.5  | 864.7  | 803.7  |
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| 17.5° | 1008.7 | 1005.2 | 1010.8 | 1040.1 | 1048.3 | 1001.4 | 907.4  | 833.5  |
| 20°   | 991.2  | 934.7  | 933.3  | 973.9  | 1034.0 | 1057.1 | 996.7  | 908.0  |
| 22.5° | 1000.9 | 909.4  | 897.9  | 945.8  | 1041.7 | 1137.4 | 1113.8 | 1012.7 |
| 25°   | 1034.3 | 911.6  | 902.3  | 948.7  | 1069.2 | 1223.1 | 1240.1 | 1148.0 |
| 27.5° | 1086.9 | 925.0  | 912.7  | 960.3  | 1105.5 | 1294.9 | 1364.5 | 1279.1 |
| 30°   | 1136.7 | 948.2  | 932.9  | 983.1  | 1138.7 | 1323.5 | 1440.9 | 1381.5 |
| 32.5° | 1197.4 | 991.5  | 964.7  | 1025.1 | 1179.8 | 1368.7 | 1509.0 | 1466.2 |
| 35°   | 1256.8 | 1053.4 | 1020.0 | 1090.1 | 1225.6 | 1425.3 | 1586.5 | 1574.5 |
| 37.5° | 1322.0 | 1134.3 | 1106.7 | 1173.8 | 1288.4 | 1478.5 | 1685.7 | 1701.4 |
| 40°   | 1391.7 | 1241.5 | 1208.8 | 1296.3 | 1385.8 | 1545.3 | 1789.2 | 1827.0 |
| 42.5° | 1461.8 | 1360.6 | 1321.4 | 1410.1 | 1493.0 | 1611.2 | 1877.8 | 1933.6 |
| 45°   | 1542.1 | 1489.7 | 1471.2 | 1567.1 | 1595.7 | 1673.9 | 1943.3 | 2012.6 |
| 47.5° | 1635.6 | 1636.4 | 1666.0 | 1704.4 | 1699.5 | 1745.0 | 2009.0 | 2083.0 |
| 50°   | 1744.8 | 1819.3 | 1885.0 | 1910.3 | 1806.3 | 1821.3 | 2100.1 | 2177.4 |
| 52.5° | 1875.9 | 2038.2 | 2119.5 | 2102.8 | 1921.5 | 1914.4 | 2244.8 | 2307.4 |
| 55°   | 2040.0 | 2269.8 | 2350.5 | 2338.6 | 2053.9 | 2041.3 | 2424.7 | 2461.3 |
| 57.5° | 2229.8 | 2494.4 | 2568.6 | 2514.7 | 2212.7 | 2180.5 | 2573.6 | 2581.3 |
| 60°   | 2396.6 | 2672.2 | 2737.2 | 2677.7 | 2373.1 | 2328.8 | 2666.6 | 2629.1 |
| 62.5° | 2489.5 | 2732.6 | 2778.2 | 2714.0 | 2482.8 | 2486.6 | 2687.0 | 2603.3 |
| 65°   | 2447.9 | 2580.1 | 2594.8 | 2589.6 | 2454.6 | 2578.1 | 2613.7 | 2484.0 |
| 67.5° | 2220.8 | 2194.7 | 2219.6 | 2253.8 | 2212.0 | 2457.7 | 2410.6 | 2223.9 |
| 70°   | 1820.8 | 1677.9 | 1727.3 | 1750.3 | 1769.2 | 2114.8 | 2092.3 | 1811.4 |
| 72.5° | 1372.2 | 1175.4 | 1214.5 | 1209.7 | 1297.6 | 1696.3 | 1627.2 | 1331.8 |
| 75°   | 972.2  | 796.9  | 801.8  | 800.0  | 905.4  | 1327.2 | 1178.2 | 911.2  |
| 77.5° | 680.2  | 577.4  | 580.0  | 590.9  | 608.7  | 1000.9 | 841.8  | 665.6  |
| 80°   | 467.7  | 438.3  | 452.8  | 453.6  | 421.8  | 672.3  | 621.8  | 534.2  |
| 82.5° | 348.5  | 304.6  | 301.1  | 306.2  | 330.7  | 544.7  | 478.0  | 370.6  |
| 85°   | 285.3  | 180.4  | 145.0  | 181.7  | 293.0  | 539.4  | 317.5  | 195.6  |
| 87.5° | 160.6  | 85.6   | 38.6   | 71.8   | 116.9  | 357.2  | 91.7   | 25.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)