

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: McGRAW-EDISON

Report Number: P193085

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193085  
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: McGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-SLR-7030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39255.7 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 448  
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: 25 FT



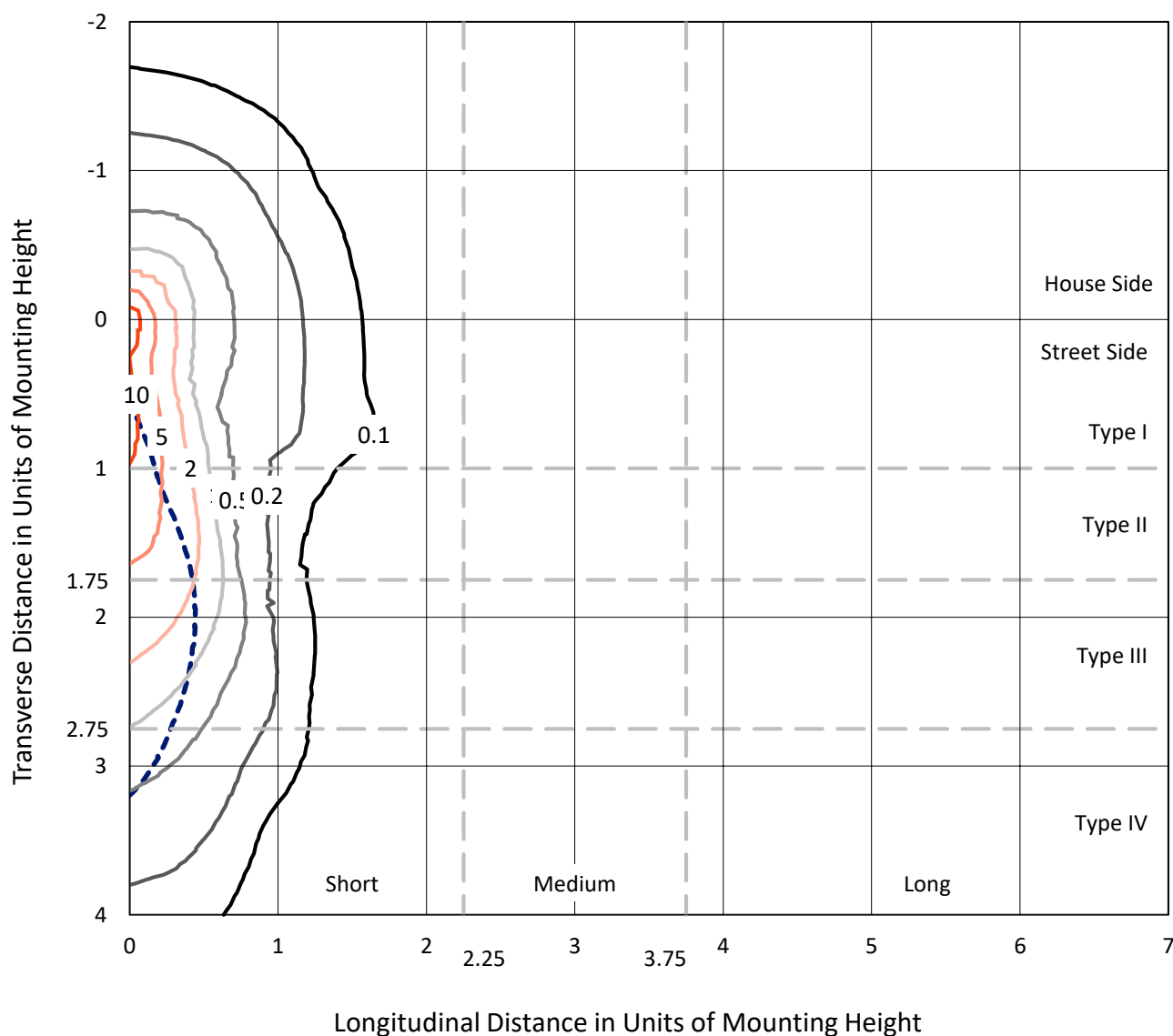
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

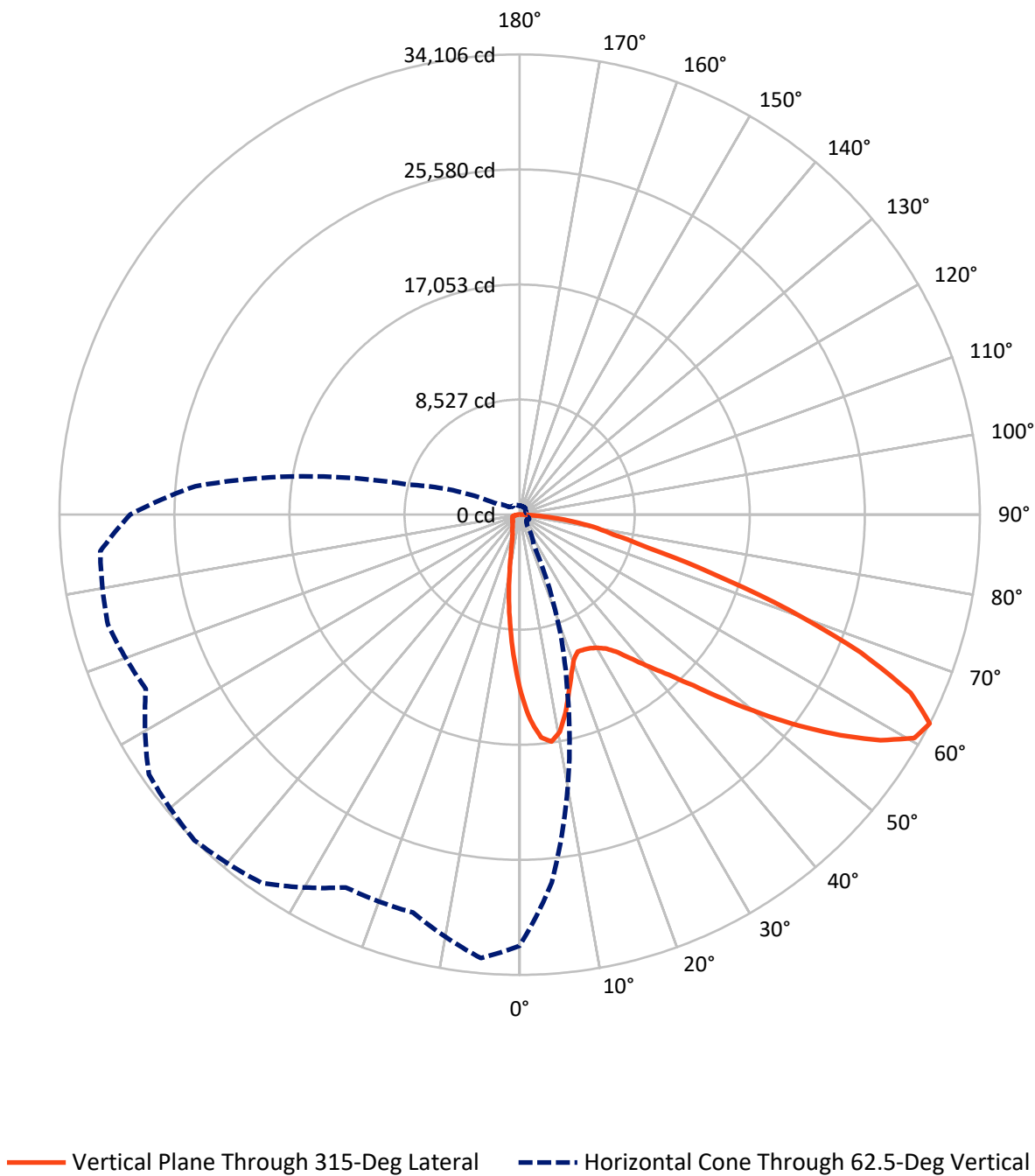


Based on 30 foot mounting height. Maximum calculated value = 14.7 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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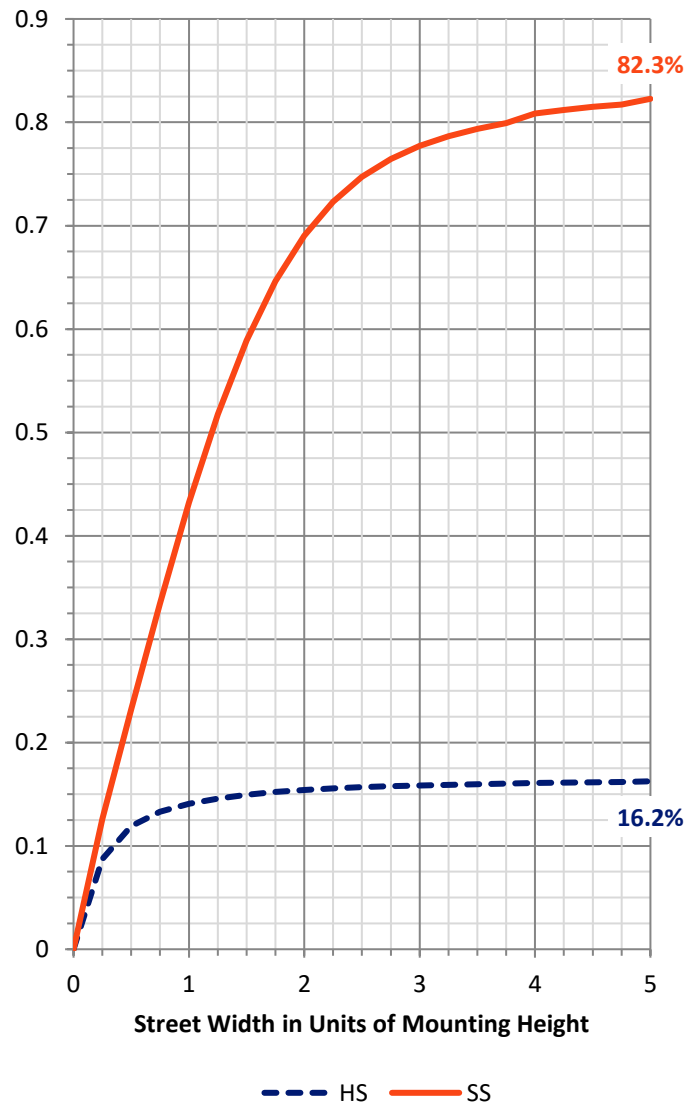
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6496.3   | 0.0    | 6496.3  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 32759.4  | 0.0    | 32759.4 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 39255.7  | 0.0    | 39255.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 965.5   | 2.5       |
| 10°-20°   | 1770.4  | 4.5       |
| 20°-30°   | 2581.2  | 6.6       |
| 30°-40°   | 3975.5  | 10.1      |
| 40°-50°   | 5850.9  | 14.9      |
| 50°-60°   | 8582.0  | 21.9      |
| 60°-70°   | 9593.4  | 24.4      |
| 70°-80°   | 4696.8  | 12.0      |
| 80°-90°   | 1240.1  | 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°    | 39255.7 | 100.0     |
| 0°-180°   | 39255.7 | 100.0     |

**Coefficient of Utilization**



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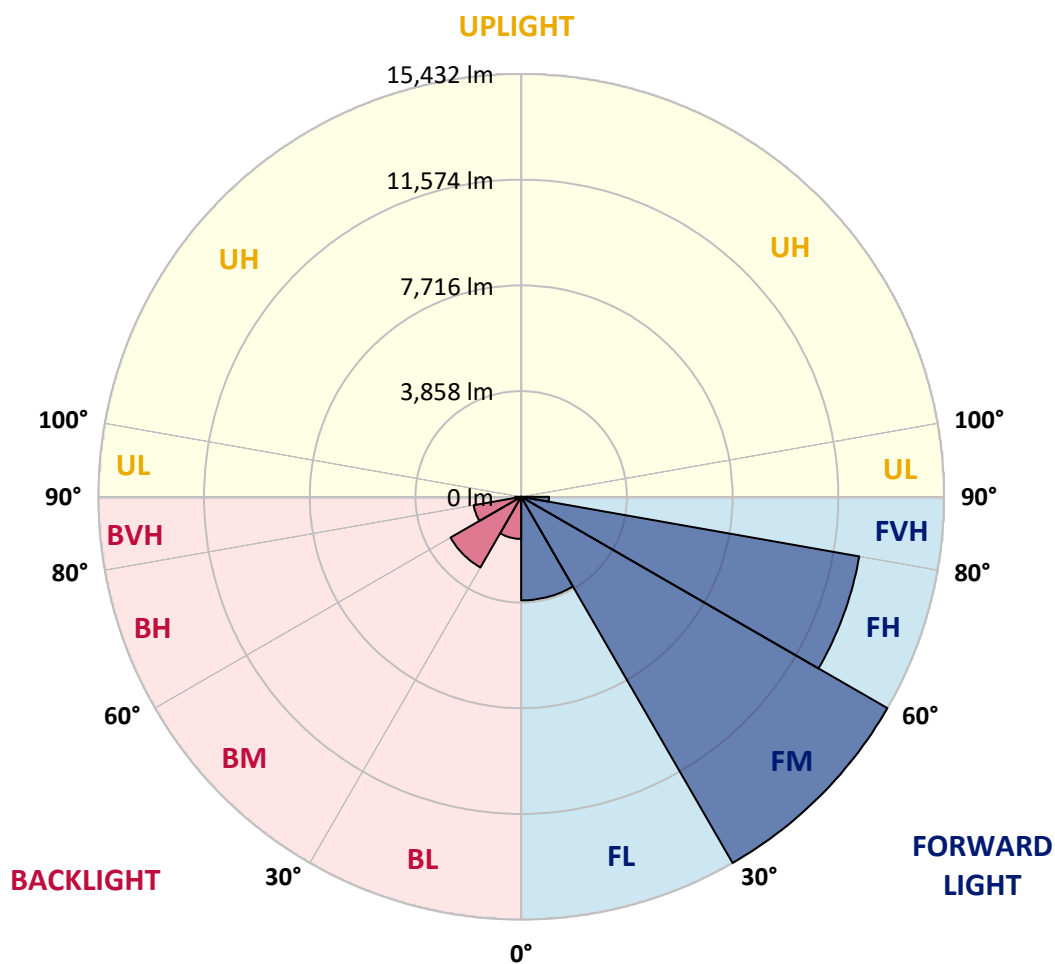
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030-1200

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3780.2  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 15431.8 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 12529.1 | 31.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 1018.4  | 2.6       |                         |      | G5      |
| BL   | (0°-30°)    | 1536.9  | 3.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2976.5  | 7.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1761.1  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 221.7   | 0.6       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 |
| 2.5°  | 13780.7 | 13500.1 | 13034.0 | 12548.4 | 12252.8 | 11907.5 | 11637.8 | 11400.4 | 10925.7 | 10832.8 | 10917.0 |
| 5°    | 12958.4 | 12395.3 | 11516.9 | 10632.1 | 10043.1 | 9410.8  | 8918.8  | 8523.9  | 7921.9  | 7816.1  | 7943.3  |
| 7.5°  | 11639.9 | 10966.7 | 9805.7  | 8677.1  | 7844.2  | 7054.4  | 6523.5  | 6100.5  | 5630.0  | 5427.2  | 5440.1  |
| 10°   | 10502.6 | 9743.0  | 8370.7  | 7142.9  | 6460.8  | 5927.9  | 5481.2  | 5047.4  | 4570.6  | 4257.7  | 4171.3  |
| 12.5° | 9866.1  | 8992.1  | 7410.4  | 6314.1  | 5681.8  | 5120.8  | 4639.5  | 4175.7  | 3666.3  | 3346.9  | 3256.4  |
| 15°   | 9756.1  | 8806.6  | 7050.0  | 5783.3  | 4991.3  | 4281.4  | 3713.8  | 3196.0  | 2671.5  | 2412.6  | 2358.6  |
| 17.5° | 10233.0 | 9138.9  | 6933.5  | 5310.6  | 4341.8  | 3465.7  | 2768.6  | 2190.3  | 1763.0  | 1633.5  | 1622.7  |
| 20°   | 11147.9 | 9777.6  | 6918.4  | 4866.2  | 3700.8  | 2673.7  | 1929.2  | 1508.5  | 1320.6  | 1284.1  | 1286.1  |
| 22.5° | 12431.9 | 10768.1 | 7103.9  | 4531.6  | 3111.7  | 1994.0  | 1450.1  | 1262.4  | 1189.1  | 1154.6  | 1154.6  |
| 25°   | 14093.6 | 12131.9 | 7531.2  | 4287.9  | 2600.4  | 1592.6  | 1279.7  | 1167.4  | 1098.4  | 1074.7  | 1078.9  |
| 27.5° | 15703.4 | 13459.1 | 8027.5  | 4095.8  | 2265.8  | 1445.8  | 1212.8  | 1111.3  | 1051.0  | 1027.1  | 1038.0  |
| 30°   | 16959.2 | 14637.4 | 8441.9  | 3834.7  | 2095.4  | 1404.8  | 1236.5  | 1132.9  | 1046.6  | 1009.9  | 1012.1  |
| 32.5° | 17999.4 | 15668.8 | 8789.3  | 3647.0  | 1944.3  | 1204.1  | 1066.1  | 1020.7  | 1009.9  | 966.7   | 945.2   |
| 35°   | 19328.7 | 16793.1 | 9022.3  | 3651.2  | 1873.1  | 1074.7  | 949.5   | 869.7   | 811.4   | 761.7   | 761.7   |
| 37.5° | 20886.8 | 18083.5 | 9270.5  | 3700.8  | 1847.2  | 999.1   | 908.5   | 828.6   | 774.6   | 727.2   | 718.6   |
| 40°   | 22427.5 | 19348.0 | 9497.2  | 3748.3  | 1832.1  | 953.9   | 876.1   | 802.7   | 753.2   | 705.6   | 692.7   |
| 42.5° | 23737.3 | 20388.3 | 9699.9  | 3772.0  | 1780.3  | 949.5   | 852.4   | 785.5   | 738.0   | 686.2   | 673.2   |
| 45°   | 24706.2 | 21260.0 | 9917.9  | 3808.8  | 1728.5  | 966.7   | 852.4   | 783.3   | 725.1   | 675.4   | 662.4   |
| 47.5° | 25571.6 | 22282.9 | 10282.6 | 3808.8  | 1665.9  | 934.3   | 880.4   | 785.5   | 722.9   | 671.1   | 660.4   |
| 50°   | 26730.4 | 23685.5 | 10973.1 | 3720.3  | 1577.4  | 899.9   | 927.9   | 776.9   | 703.5   | 662.4   | 649.5   |
| 52.5° | 28327.3 | 25483.1 | 12069.4 | 3567.1  | 1441.4  | 833.0   | 921.5   | 772.6   | 684.1   | 641.0   | 625.8   |
| 55°   | 30215.5 | 27408.0 | 13264.8 | 3388.0  | 1238.7  | 785.5   | 889.1   | 761.7   | 662.4   | 615.0   | 600.0   |
| 57.5° | 31689.3 | 28733.0 | 14106.5 | 3111.7  | 1061.7  | 759.6   | 787.6   | 750.9   | 636.6   | 586.9   | 574.0   |
| 60°   | 32276.4 | 28681.2 | 14337.3 | 2742.7  | 975.3   | 738.0   | 688.4   | 841.7   | 615.0   | 565.4   | 550.2   |
| 62.5° | 31959.1 | 27356.3 | 13689.9 | 2483.8  | 956.0   | 709.9   | 645.1   | 779.0   | 597.7   | 550.2   | 528.7   |
| 65°   | 30493.8 | 25008.4 | 11974.4 | 2414.7  | 1012.1  | 681.9   | 617.2   | 610.6   | 574.0   | 528.7   | 507.1   |
| 67.5° | 27302.2 | 21499.6 | 9587.7  | 2421.1  | 1083.3  | 653.8   | 589.1   | 558.9   | 541.6   | 505.0   | 485.5   |
| 70°   | 22237.5 | 16998.1 | 7147.0  | 2438.4  | 1120.0  | 621.4   | 558.9   | 526.5   | 507.1   | 470.5   | 457.5   |
| 72.5° | 16350.7 | 13100.8 | 5192.0  | 2326.2  | 1126.5  | 584.7   | 517.9   | 489.8   | 470.5   | 431.6   | 420.7   |
| 75°   | 11186.7 | 10021.5 | 3601.6  | 1927.0  | 981.9   | 532.9   | 472.5   | 446.7   | 433.8   | 386.2   | 379.7   |
| 77.5° | 8172.1  | 7522.6  | 2304.8  | 1430.8  | 757.3   | 468.2   | 416.5   | 397.0   | 388.4   | 336.6   | 328.0   |
| 80°   | 6558.0  | 5951.6  | 1441.4  | 979.7   | 554.6   | 392.8   | 349.6   | 338.8   | 330.2   | 278.4   | 271.9   |
| 82.5° | 4548.9  | 3985.7  | 925.8   | 636.6   | 416.5   | 304.3   | 276.2   | 271.9   | 259.0   | 211.5   | 205.0   |
| 85°   | 2399.7  | 2164.4  | 586.9   | 433.8   | 302.1   | 209.3   | 192.1   | 192.1   | 185.6   | 140.3   | 135.9   |
| 87.5° | 306.5   | 498.4   | 297.8   | 226.6   | 166.2   | 92.8    | 92.8    | 90.6    | 97.1    | 79.9    | 69.1    |
| 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):**

|       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    | 185°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 |
| 2.5°  | 10718.5 | 10822.1 | 10722.8 | 10729.3 | 10839.4 | 11167.4 | 11316.2 | 11439.2 | 11570.9 | 11657.2 | 11696.1 |
| 5°    | 7768.6  | 8010.3  | 8092.3  | 8264.9  | 8519.6  | 8938.2  | 9104.3  | 9225.2  | 9305.1  | 9352.5  | 9371.9  |
| 7.5°  | 5312.8  | 5459.5  | 5623.6  | 5901.9  | 6456.5  | 6702.6  | 6812.7  | 6784.6  | 6694.0  | 6661.5  | 6629.2  |
| 10°   | 4005.1  | 3946.9  | 3916.6  | 4069.9  | 4518.8  | 4766.9  | 4844.5  | 4769.0  | 4719.5  | 4730.2  | 4784.1  |
| 12.5° | 3103.1  | 3001.7  | 2878.7  | 2861.4  | 3157.0  | 3379.4  | 3429.0  | 3433.3  | 3523.9  | 3603.8  | 3722.5  |
| 15°   | 2261.5  | 2250.7  | 2190.3  | 2153.6  | 2322.0  | 2503.2  | 2524.8  | 2563.7  | 2645.6  | 2703.9  | 2807.5  |
| 17.5° | 1594.7  | 1653.0  | 1700.5  | 1724.2  | 1851.5  | 1981.0  | 1957.3  | 1937.8  | 1922.8  | 1922.8  | 1972.3  |
| 20°   | 1286.1  | 1325.0  | 1385.4  | 1454.5  | 1583.9  | 1674.6  | 1616.3  | 1538.6  | 1482.5  | 1465.2  | 1471.7  |
| 22.5° | 1158.8  | 1189.1  | 1223.6  | 1284.1  | 1400.4  | 1463.1  | 1400.4  | 1344.4  | 1288.2  | 1268.8  | 1262.4  |
| 25°   | 1094.1  | 1132.9  | 1165.2  | 1210.6  | 1296.9  | 1340.1  | 1279.7  | 1238.7  | 1204.1  | 1180.4  | 1163.2  |
| 27.5° | 1057.4  | 1091.9  | 1100.6  | 1122.1  | 1195.6  | 1234.3  | 1204.1  | 1186.9  | 1165.2  | 1143.7  | 1122.1  |
| 30°   | 1018.6  | 1012.1  | 997.0   | 999.1   | 1057.4  | 1096.2  | 1094.1  | 1098.4  | 1096.2  | 1089.8  | 1085.5  |
| 32.5° | 930.2   | 917.1   | 904.2   | 917.1   | 971.1   | 1005.6  | 1007.8  | 1016.4  | 1016.4  | 1014.3  | 1031.5  |
| 35°   | 774.6   | 798.4   | 813.6   | 852.4   | 917.1   | 947.4   | 934.3   | 912.9   | 874.0   | 850.2   | 848.1   |
| 37.5° | 716.4   | 720.8   | 746.7   | 800.6   | 871.8   | 899.9   | 880.4   | 830.8   | 804.9   | 800.6   | 807.1   |
| 40°   | 688.4   | 692.7   | 707.8   | 757.3   | 828.6   | 856.7   | 839.4   | 802.7   | 779.0   | 776.9   | 787.6   |
| 42.5° | 669.0   | 673.2   | 681.9   | 716.4   | 774.6   | 809.2   | 811.4   | 785.5   | 757.3   | 759.6   | 770.4   |
| 45°   | 658.2   | 660.4   | 658.2   | 675.4   | 729.5   | 770.4   | 787.6   | 770.4   | 746.7   | 750.9   | 763.9   |
| 47.5° | 656.0   | 649.5   | 641.0   | 645.1   | 701.3   | 742.3   | 763.9   | 757.3   | 746.7   | 750.9   | 761.7   |
| 50°   | 647.4   | 632.3   | 621.4   | 619.3   | 675.4   | 718.6   | 738.0   | 738.0   | 742.3   | 750.9   | 761.7   |
| 52.5° | 621.4   | 604.2   | 604.2   | 597.7   | 658.2   | 699.1   | 712.2   | 714.2   | 720.8   | 735.9   | 750.9   |
| 55°   | 589.1   | 582.7   | 589.1   | 578.3   | 645.1   | 684.1   | 690.5   | 694.9   | 699.1   | 712.2   | 733.6   |
| 57.5° | 561.0   | 552.5   | 567.5   | 563.2   | 634.5   | 669.0   | 669.0   | 677.6   | 677.6   | 694.9   | 712.2   |
| 60°   | 546.0   | 528.7   | 535.2   | 539.5   | 619.3   | 656.0   | 651.7   | 660.4   | 664.7   | 679.7   | 692.7   |
| 62.5° | 526.5   | 511.5   | 511.5   | 522.3   | 602.0   | 636.6   | 634.5   | 641.0   | 658.2   | 662.4   | 675.4   |
| 65°   | 502.8   | 496.4   | 489.8   | 502.8   | 584.7   | 615.0   | 617.2   | 625.8   | 641.0   | 645.1   | 656.0   |
| 67.5° | 479.1   | 481.2   | 468.2   | 481.2   | 569.7   | 593.4   | 593.4   | 610.6   | 617.2   | 625.8   | 636.6   |
| 70°   | 453.2   | 455.3   | 444.5   | 459.7   | 558.9   | 569.7   | 567.5   | 591.3   | 595.6   | 602.0   | 612.8   |
| 72.5° | 420.7   | 420.7   | 416.5   | 438.0   | 541.6   | 546.0   | 541.6   | 561.0   | 563.2   | 569.7   | 574.0   |
| 75°   | 386.2   | 386.2   | 382.0   | 412.1   | 530.9   | 520.1   | 507.1   | 522.3   | 526.5   | 530.9   | 530.9   |
| 77.5° | 341.0   | 345.3   | 345.3   | 382.0   | 494.2   | 509.2   | 466.1   | 474.7   | 481.2   | 483.4   | 476.9   |
| 80°   | 284.8   | 295.6   | 299.9   | 347.5   | 414.3   | 470.5   | 416.5   | 423.0   | 425.1   | 425.1   | 416.5   |
| 82.5° | 218.0   | 237.4   | 248.1   | 299.9   | 317.2   | 394.9   | 362.5   | 369.0   | 362.5   | 349.6   | 345.3   |
| 85°   | 151.1   | 177.0   | 189.9   | 228.8   | 239.5   | 304.3   | 302.1   | 302.1   | 289.2   | 271.9   | 269.8   |
| 87.5° | 82.1    | 97.1    | 105.8   | 135.9   | 164.0   | 205.0   | 222.3   | 215.8   | 205.0   | 194.3   | 196.3   |
| 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):**

|       | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    | 285°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 |
| 2.5°  | 11898.9 | 12192.4 | 12660.6 | 13018.9 | 13379.3 | 13726.7 | 14102.2 | 14389.1 | 14633.0 | 14727.9 | 15017.1 |
| 5°    | 9568.3  | 9935.2  | 10377.6 | 11176.0 | 11741.3 | 12365.0 | 13085.8 | 14039.6 | 14406.4 | 14913.6 | 15744.4 |
| 7.5°  | 6765.2  | 7097.5  | 7809.7  | 8454.8  | 9255.5  | 10138.0 | 11111.2 | 12427.5 | 12908.8 | 13722.3 | 15075.4 |
| 10°   | 5051.7  | 5438.1  | 6010.0  | 6553.7  | 7259.3  | 8161.3  | 9279.2  | 10750.9 | 11335.6 | 12218.3 | 13776.3 |
| 12.5° | 4069.9  | 4525.2  | 5131.6  | 5643.0  | 6189.0  | 6825.5  | 7911.0  | 9525.1  | 10308.5 | 11081.1 | 12656.4 |
| 15°   | 3126.9  | 3603.8  | 4167.0  | 4816.4  | 5418.6  | 6104.9  | 7242.0  | 9007.3  | 9909.3  | 10714.2 | 12058.6 |
| 17.5° | 2164.4  | 2572.3  | 3282.2  | 3959.8  | 4730.2  | 5608.5  | 7056.5  | 9117.3  | 10194.1 | 11122.0 | 12162.2 |
| 20°   | 1534.3  | 1767.4  | 2349.9  | 3135.5  | 4095.8  | 5198.4  | 7022.0  | 9695.6  | 11096.2 | 12155.6 | 12826.8 |
| 22.5° | 1290.5  | 1376.7  | 1715.6  | 2436.3  | 3545.5  | 4892.1  | 7142.9  | 10507.0 | 12313.2 | 13666.2 | 13886.3 |
| 25°   | 1176.0  | 1227.8  | 1404.8  | 1911.9  | 3055.7  | 4669.7  | 7550.7  | 11715.5 | 13819.4 | 15176.7 | 15138.0 |
| 27.5° | 1113.5  | 1167.4  | 1284.1  | 1614.1  | 2686.6  | 4531.6  | 7958.5  | 13148.4 | 15541.5 | 16816.8 | 16333.5 |
| 30°   | 1094.1  | 1167.4  | 1290.5  | 1521.3  | 2423.4  | 4313.8  | 8293.0  | 14406.4 | 16866.5 | 17923.9 | 16877.3 |
| 32.5° | 1078.9  | 1089.8  | 1145.9  | 1311.9  | 2173.0  | 4059.1  | 8519.6  | 15535.0 | 18163.4 | 18976.9 | 17660.5 |
| 35°   | 871.8   | 925.8   | 1016.4  | 1176.0  | 2026.3  | 3905.9  | 8519.6  | 16508.2 | 19440.9 | 20040.8 | 18407.2 |
| 37.5° | 839.4   | 886.9   | 966.7   | 1102.8  | 1944.3  | 3830.3  | 8349.0  | 17446.9 | 20746.4 | 21247.1 | 19022.2 |
| 40°   | 822.1   | 861.1   | 936.6   | 1046.6  | 1909.8  | 3744.0  | 8100.9  | 18275.6 | 22021.8 | 22455.5 | 19596.3 |
| 42.5° | 809.2   | 843.8   | 914.9   | 1012.1  | 1864.5  | 3649.0  | 7900.2  | 18940.2 | 23128.9 | 23487.0 | 20144.3 |
| 45°   | 802.7   | 839.4   | 917.1   | 1029.3  | 1773.9  | 3523.9  | 7833.4  | 19658.8 | 24039.4 | 24348.1 | 20737.9 |
| 47.5° | 802.7   | 845.8   | 927.9   | 1066.1  | 1665.9  | 3394.4  | 8042.7  | 20606.2 | 24900.5 | 25051.5 | 21437.0 |
| 50°   | 796.3   | 843.8   | 958.1   | 1029.3  | 1508.5  | 3230.5  | 8534.7  | 21799.5 | 25832.7 | 25849.9 | 22321.7 |
| 52.5° | 783.3   | 839.4   | 1031.5  | 1007.8  | 1327.2  | 3014.7  | 9199.3  | 23331.7 | 27211.7 | 27315.3 | 23707.2 |
| 55°   | 768.2   | 833.0   | 1012.1  | 958.1   | 1178.3  | 2757.8  | 9743.0  | 25194.0 | 29149.5 | 29436.5 | 25744.2 |
| 57.5° | 748.8   | 824.4   | 979.7   | 889.1   | 1081.1  | 2427.6  | 9939.6  | 26557.7 | 30502.5 | 31223.2 | 28040.3 |
| 60°   | 731.5   | 817.8   | 884.8   | 848.1   | 1020.7  | 2149.3  | 9559.6  | 26288.0 | 30409.7 | 31963.5 | 30075.2 |
| 62.5° | 714.2   | 824.4   | 807.1   | 822.1   | 992.6   | 1970.2  | 8567.0  | 24127.9 | 28871.1 | 31199.5 | 31583.7 |
| 65°   | 694.9   | 766.0   | 761.7   | 800.6   | 986.2   | 1899.0  | 7101.8  | 20888.8 | 25897.5 | 28784.8 | 31939.6 |
| 67.5° | 669.0   | 707.8   | 729.5   | 772.6   | 1007.8  | 1836.4  | 5731.5  | 17231.2 | 21765.0 | 25165.9 | 30083.9 |
| 70°   | 641.0   | 673.2   | 697.0   | 738.0   | 994.8   | 1808.4  | 4766.9  | 13588.6 | 17269.9 | 20625.6 | 26421.8 |
| 72.5° | 604.2   | 632.3   | 653.8   | 692.7   | 981.9   | 1793.3  | 4026.7  | 10943.0 | 12893.6 | 15321.4 | 21482.3 |
| 75°   | 561.0   | 586.9   | 602.0   | 641.0   | 940.8   | 1642.1  | 3165.7  | 9259.7  | 9648.1  | 10658.0 | 17110.3 |
| 77.5° | 511.5   | 530.9   | 543.8   | 586.9   | 833.0   | 1366.0  | 2289.5  | 7142.9  | 7492.4  | 7738.4  | 13118.1 |
| 80°   | 453.2   | 472.5   | 479.1   | 520.1   | 690.5   | 1068.2  | 1493.2  | 5276.1  | 5604.1  | 5660.2  | 8567.0  |
| 82.5° | 386.2   | 405.7   | 405.7   | 444.5   | 565.4   | 768.2   | 979.7   | 3614.6  | 3679.3  | 3869.2  | 6055.1  |
| 85°   | 310.8   | 325.8   | 325.8   | 345.3   | 438.0   | 574.0   | 673.2   | 1814.8  | 1795.4  | 2050.0  | 5246.0  |
| 87.5° | 222.3   | 233.0   | 243.8   | 248.1   | 312.9   | 379.7   | 405.7   | 552.5   | 364.7   | 418.7   | 3368.6  |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 | 13262.8 |
| 2.5°  | 15235.1 | 15358.0 | 15232.9 | 15142.2 | 14751.6 | 14430.2 | 14000.7 | 13780.7 |
| 5°    | 16376.7 | 16689.6 | 16583.8 | 16204.0 | 15388.3 | 14471.2 | 13428.8 | 12958.4 |
| 7.5°  | 16238.5 | 16965.8 | 16983.0 | 16273.1 | 15071.1 | 13720.2 | 12308.9 | 11639.9 |
| 10°   | 15163.9 | 16093.9 | 16359.4 | 15670.9 | 14395.7 | 12885.1 | 11266.6 | 10502.6 |
| 12.5° | 13964.0 | 14874.7 | 15077.6 | 14840.1 | 13774.1 | 12257.1 | 10614.9 | 9866.1  |
| 15°   | 12982.1 | 13390.0 | 13631.7 | 13838.9 | 13241.1 | 12006.8 | 10578.3 | 9756.1  |
| 17.5° | 12384.4 | 12339.0 | 12408.1 | 12768.6 | 12869.9 | 12293.8 | 11139.3 | 10233.0 |
| 20°   | 12168.6 | 11475.9 | 11458.7 | 11955.0 | 12695.2 | 12977.9 | 12235.5 | 11147.9 |
| 22.5° | 12287.3 | 11165.2 | 11022.7 | 11611.8 | 12787.9 | 13964.0 | 13672.7 | 12431.9 |
| 25°   | 12697.3 | 11191.1 | 11076.7 | 11646.4 | 13124.6 | 15015.0 | 15224.3 | 14093.6 |
| 27.5° | 13342.5 | 11355.1 | 11204.0 | 11788.8 | 13571.3 | 15897.6 | 16752.0 | 15703.4 |
| 30°   | 13955.3 | 11639.9 | 11452.2 | 12069.4 | 13979.1 | 16247.2 | 17688.6 | 16959.2 |
| 32.5° | 14699.8 | 12172.9 | 11842.8 | 12585.1 | 14484.1 | 16803.8 | 18523.9 | 17999.4 |
| 35°   | 15429.3 | 12932.6 | 12522.5 | 13381.4 | 15047.3 | 17496.6 | 19477.5 | 19328.7 |
| 37.5° | 16229.9 | 13925.2 | 13586.4 | 14410.7 | 15817.7 | 18150.4 | 20694.7 | 20886.8 |
| 40°   | 17084.5 | 15241.5 | 14840.1 | 15912.6 | 17013.2 | 18970.4 | 21965.7 | 22427.5 |
| 42.5° | 17945.4 | 16702.5 | 16223.4 | 17311.0 | 18327.3 | 19779.6 | 23053.2 | 23737.3 |
| 45°   | 18931.6 | 18288.6 | 18061.9 | 19238.1 | 19589.7 | 20550.0 | 23856.0 | 24706.2 |
| 47.5° | 20079.6 | 20088.3 | 20453.0 | 20923.3 | 20862.9 | 21421.9 | 24663.1 | 25571.6 |
| 50°   | 21419.7 | 22334.7 | 23139.6 | 23452.5 | 22175.0 | 22358.5 | 25783.1 | 26730.4 |
| 52.5° | 23029.5 | 25021.4 | 26018.4 | 25813.3 | 23588.4 | 23502.1 | 27557.0 | 28327.3 |
| 55°   | 25042.9 | 27865.5 | 28856.0 | 28709.3 | 25213.4 | 25060.1 | 29766.7 | 30215.5 |
| 57.5° | 27373.5 | 30621.2 | 31531.9 | 30871.5 | 27164.1 | 26769.3 | 31594.4 | 31689.3 |
| 60°   | 29421.4 | 32805.0 | 33603.4 | 32872.0 | 29132.3 | 28588.4 | 32735.9 | 32276.4 |
| 62.5° | 30560.8 | 33545.3 | 34106.3 | 33318.6 | 30480.9 | 30526.3 | 32986.3 | 31959.1 |
| 65°   | 30051.5 | 31674.3 | 31855.5 | 31790.8 | 30133.4 | 31650.5 | 32086.3 | 30493.8 |
| 67.5° | 27263.5 | 26944.1 | 27248.3 | 27669.2 | 27155.6 | 30170.2 | 29594.0 | 27302.2 |
| 70°   | 22351.9 | 20597.5 | 21204.0 | 21486.6 | 21719.6 | 25962.1 | 25686.0 | 22237.5 |
| 72.5° | 16844.9 | 14430.2 | 14909.2 | 14850.9 | 15929.9 | 20824.2 | 19976.1 | 16350.7 |
| 75°   | 11935.6 | 9784.0  | 9844.5  | 9820.8  | 11115.6 | 16292.4 | 14464.8 | 11186.7 |
| 77.5° | 8351.2  | 7088.8  | 7121.2  | 7255.1  | 7473.0  | 12287.3 | 10334.4 | 8172.1  |
| 80°   | 5742.2  | 5379.7  | 5558.9  | 5569.6  | 5179.1  | 8254.1  | 7634.8  | 6558.0  |
| 82.5° | 4277.1  | 3739.7  | 3696.6  | 3759.2  | 4059.1  | 6687.4  | 5867.4  | 4548.9  |
| 85°   | 3502.3  | 2214.0  | 1780.3  | 2231.3  | 3597.3  | 6622.7  | 3897.3  | 2399.7  |
| 87.5° | 1972.3  | 1051.0  | 474.7   | 880.4   | 1435.0  | 4384.9  | 1126.5  | 306.5   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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