

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: P194688

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-7060-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194688  
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-10-LED-E1-SLR-7060-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5700K, 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: 56798 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 640  
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



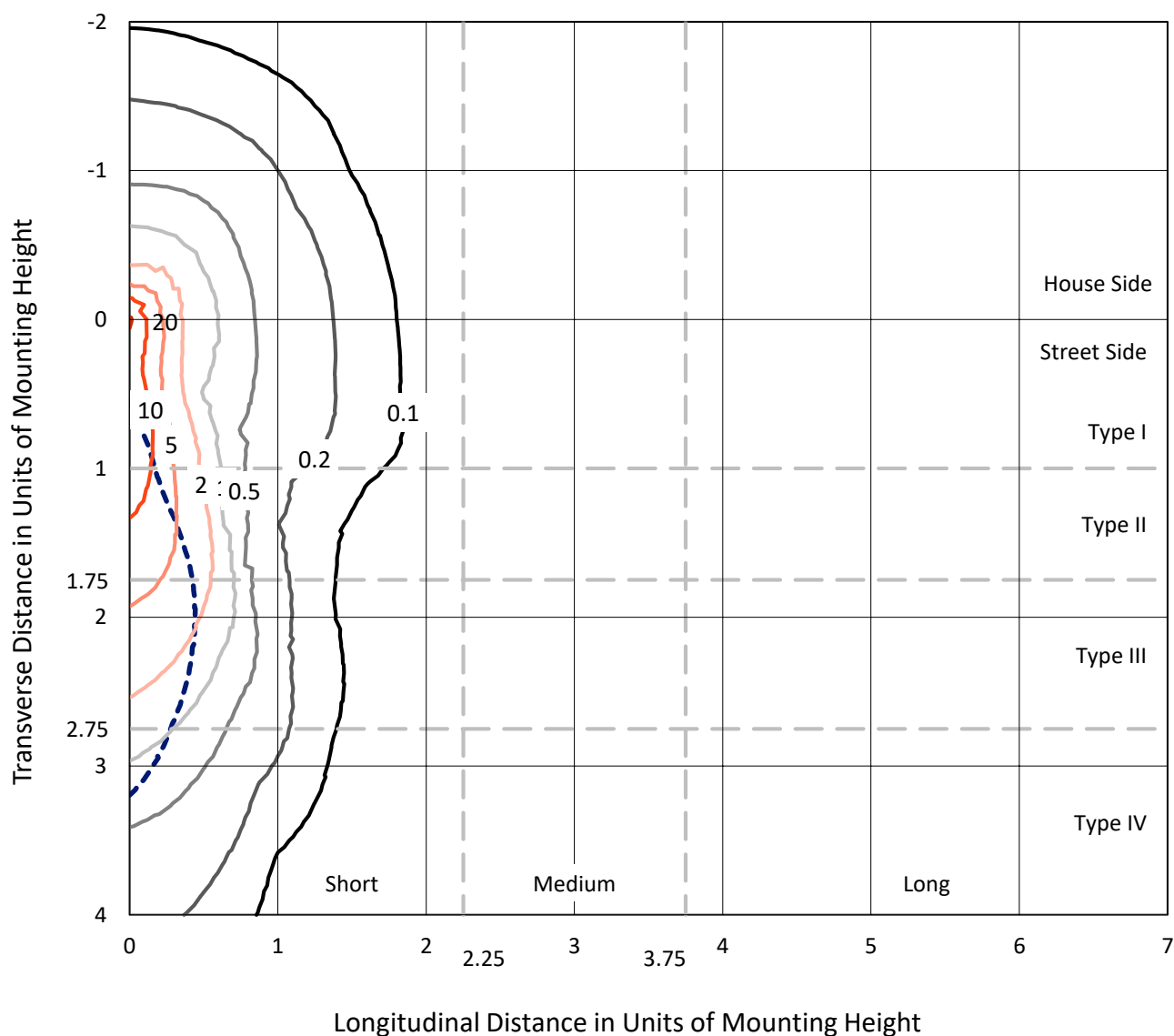
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

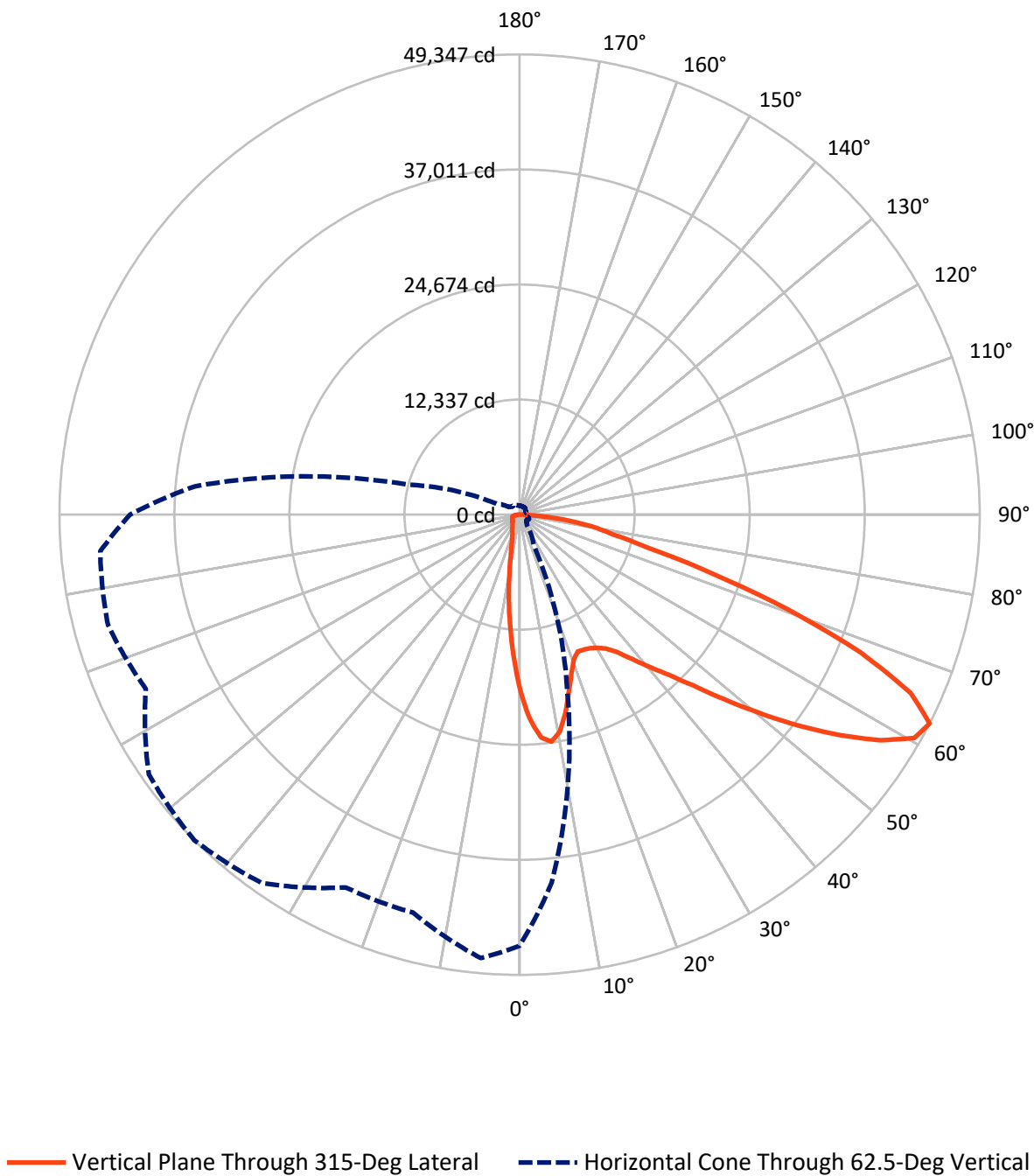


Based on 30 foot mounting height. Maximum calculated value = 21.3 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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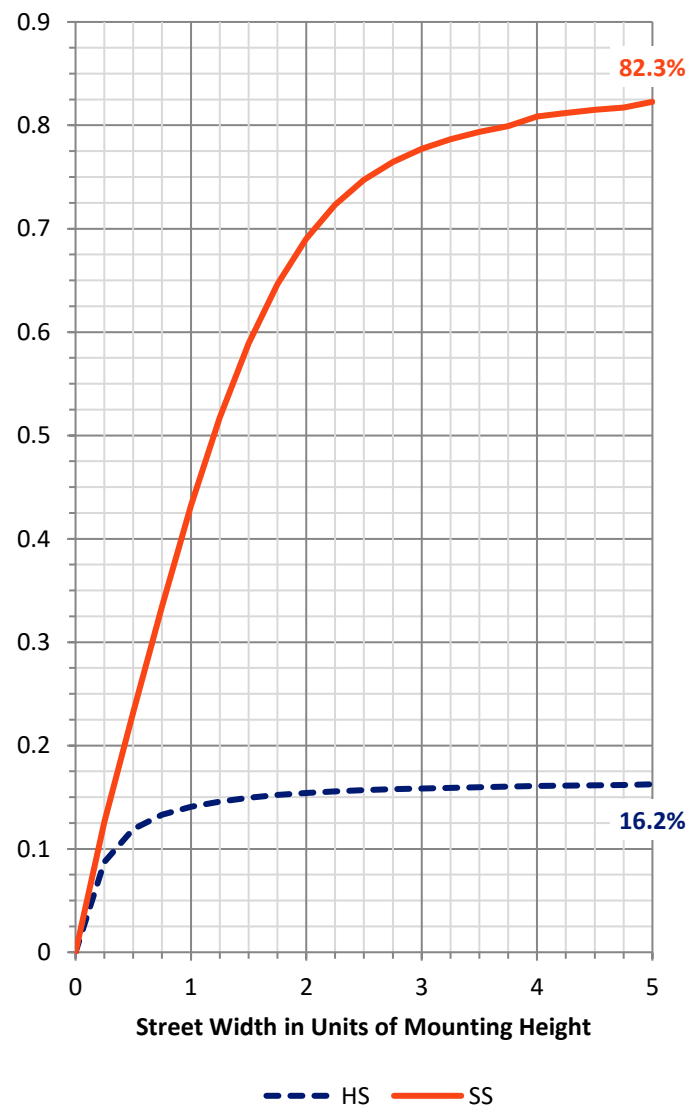
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9399.3   | 0.0    | 9399.3  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 47398.7  | 0.0    | 47398.7 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 56798.0  | 0.0    | 56798.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1396.9  | 2.5       |
| 10°-20°   | 2561.5  | 4.5       |
| 20°-30°   | 3734.7  | 6.6       |
| 30°-40°   | 5752.0  | 10.1      |
| 40°-50°   | 8465.5  | 14.9      |
| 50°-60°   | 12417.0 | 21.9      |
| 60°-70°   | 13880.4 | 24.4      |
| 70°-80°   | 6795.7  | 12.0      |
| 80°-90°   | 1794.2  | 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°    | 56798.0 | 100.0     |
| 0°-180°   | 56798.0 | 100.0     |

**Coefficient of Utilization**



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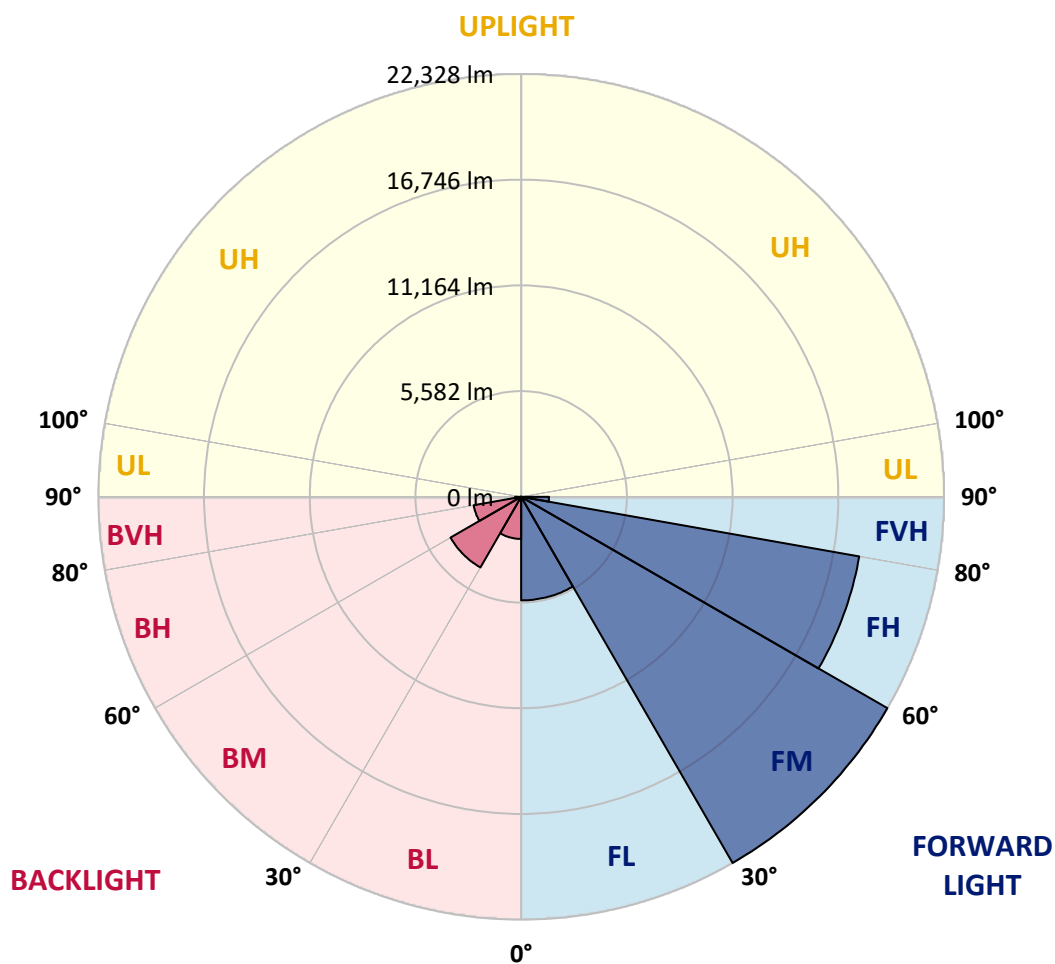
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7060-1200

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5469.5  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 22327.8 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 18128.0 | 31.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 1473.5  | 2.6       |                         |      | G5      |
| BL   | (0°-30°)    | 2223.7  | 3.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4306.7  | 7.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2548.1  | 4.5       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 320.7   | 0.6       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 |
| 2.5°  | 19938.8 | 19532.9 | 18858.5 | 18156.0 | 17728.2 | 17228.6 | 16838.4 | 16494.9 | 15808.0 | 15673.8 | 15795.5 |
| 5°    | 18749.2 | 17934.3 | 16663.5 | 15383.4 | 14531.0 | 13616.2 | 12904.3 | 12332.9 | 11461.8 | 11308.8 | 11493.0 |
| 7.5°  | 16841.5 | 15867.3 | 14187.6 | 12554.6 | 11349.4 | 10206.7 | 9438.6  | 8826.6  | 8146.0  | 7852.5  | 7871.2  |
| 10°   | 15196.1 | 14097.0 | 12111.3 | 10334.7 | 9348.1  | 8576.9  | 7930.5  | 7303.0  | 6613.0  | 6160.2  | 6035.3  |
| 12.5° | 14275.0 | 13010.5 | 10721.8 | 9135.7  | 8220.9  | 7409.1  | 6712.9  | 6041.6  | 5304.7  | 4842.6  | 4711.5  |
| 15°   | 14115.7 | 12742.0 | 10200.4 | 8367.7  | 7221.8  | 6194.6  | 5373.4  | 4624.1  | 3865.4  | 3490.7  | 3412.6  |
| 17.5° | 14805.8 | 13222.8 | 10031.8 | 7683.9  | 6282.0  | 5014.4  | 4005.9  | 3169.1  | 2550.9  | 2363.6  | 2347.9  |
| 20°   | 16129.6 | 14147.0 | 10010.0 | 7040.7  | 5354.7  | 3868.5  | 2791.3  | 2182.5  | 1910.8  | 1857.7  | 1860.9  |
| 22.5° | 17987.4 | 15580.1 | 10278.5 | 6556.8  | 4502.3  | 2885.0  | 2098.2  | 1826.5  | 1720.4  | 1670.4  | 1670.4  |
| 25°   | 20391.5 | 17553.4 | 10896.7 | 6203.9  | 3762.3  | 2304.2  | 1851.5  | 1689.1  | 1589.2  | 1554.9  | 1561.1  |
| 27.5° | 22720.7 | 19473.5 | 11614.8 | 5926.1  | 3278.4  | 2091.9  | 1754.7  | 1608.0  | 1520.5  | 1486.2  | 1501.8  |
| 30°   | 24537.9 | 21178.3 | 12214.3 | 5548.3  | 3031.7  | 2032.6  | 1789.1  | 1639.2  | 1514.3  | 1461.2  | 1464.3  |
| 32.5° | 26042.8 | 22670.7 | 12717.0 | 5276.6  | 2813.2  | 1742.2  | 1542.4  | 1476.8  | 1461.2  | 1398.8  | 1367.6  |
| 35°   | 27966.1 | 24297.4 | 13054.2 | 5282.9  | 2710.1  | 1554.9  | 1373.8  | 1258.3  | 1174.0  | 1102.2  | 1102.2  |
| 37.5° | 30220.4 | 26164.6 | 13413.2 | 5354.7  | 2672.7  | 1445.6  | 1314.5  | 1198.9  | 1120.9  | 1052.2  | 1039.7  |
| 40°   | 32449.7 | 27994.2 | 13741.1 | 5423.4  | 2650.8  | 1380.0  | 1267.6  | 1161.5  | 1089.7  | 1021.0  | 1002.2  |
| 42.5° | 34344.9 | 29499.1 | 14034.6 | 5457.7  | 2575.9  | 1373.8  | 1233.3  | 1136.5  | 1067.8  | 992.9   | 974.1   |
| 45°   | 35746.8 | 30760.5 | 14349.9 | 5510.8  | 2500.9  | 1398.8  | 1233.3  | 1133.4  | 1049.1  | 977.3   | 958.5   |
| 47.5° | 36998.8 | 32240.5 | 14877.6 | 5510.8  | 2410.4  | 1351.9  | 1273.9  | 1136.5  | 1046.0  | 971.0   | 955.4   |
| 50°   | 38675.5 | 34270.0 | 15876.7 | 5382.8  | 2282.4  | 1302.0  | 1342.6  | 1124.0  | 1017.9  | 958.5   | 939.8   |
| 52.5° | 40985.9 | 36870.8 | 17462.8 | 5161.1  | 2085.7  | 1205.2  | 1333.2  | 1117.8  | 989.8   | 927.3   | 905.5   |
| 55°   | 43717.9 | 39655.9 | 19192.5 | 4902.0  | 1792.2  | 1136.5  | 1286.4  | 1102.2  | 958.5   | 889.8   | 868.0   |
| 57.5° | 45850.4 | 41572.9 | 20410.2 | 4502.3  | 1536.2  | 1099.0  | 1139.6  | 1086.5  | 921.1   | 849.3   | 830.5   |
| 60°   | 46699.7 | 41498.0 | 20744.3 | 3968.4  | 1411.3  | 1067.8  | 996.0   | 1217.7  | 889.8   | 818.0   | 796.2   |
| 62.5° | 46240.7 | 39580.9 | 19807.6 | 3593.7  | 1383.2  | 1027.2  | 933.6   | 1127.1  | 864.9   | 796.2   | 765.0   |
| 65°   | 44120.7 | 36183.9 | 17325.4 | 3493.8  | 1464.3  | 986.6   | 893.0   | 883.6   | 830.5   | 765.0   | 733.7   |
| 67.5° | 39502.9 | 31107.1 | 13872.2 | 3503.2  | 1567.4  | 946.0   | 852.4   | 808.7   | 783.7   | 730.6   | 702.5   |
| 70°   | 32174.9 | 24594.1 | 10340.9 | 3528.2  | 1620.5  | 899.2   | 808.7   | 761.8   | 733.7   | 680.7   | 661.9   |
| 72.5° | 23657.4 | 18955.3 | 7512.2  | 3365.8  | 1629.8  | 846.1   | 749.3   | 708.8   | 680.7   | 624.5   | 608.8   |
| 75°   | 16185.8 | 14499.8 | 5211.1  | 2788.2  | 1420.6  | 771.2   | 683.8   | 646.3   | 627.6   | 558.9   | 549.5   |
| 77.5° | 11824.0 | 10884.2 | 3334.6  | 2070.1  | 1095.9  | 677.5   | 602.6   | 574.5   | 562.0   | 487.1   | 474.6   |
| 80°   | 9488.6  | 8611.2  | 2085.7  | 1417.5  | 802.4   | 568.3   | 505.8   | 490.2   | 477.7   | 402.8   | 393.4   |
| 82.5° | 6581.7  | 5766.8  | 1339.5  | 921.1   | 602.6   | 440.2   | 399.6   | 393.4   | 374.7   | 306.0   | 296.6   |
| 85°   | 3472.0  | 3131.6  | 849.3   | 627.6   | 437.1   | 302.9   | 277.9   | 277.9   | 268.5   | 202.9   | 196.7   |
| 87.5° | 443.4   | 721.2   | 430.9   | 327.8   | 240.4   | 134.3   | 134.3   | 131.1   | 140.5   | 115.5   | 99.9    |
| 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):**

|       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    | 185°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 |
| 2.5°  | 15508.3 | 15658.1 | 15514.5 | 15523.9 | 15683.1 | 16157.7 | 16373.1 | 16551.1 | 16741.6 | 16866.5 | 16922.7 |
| 5°    | 11240.1 | 11589.8 | 11708.5 | 11958.3 | 12326.7 | 12932.4 | 13172.8 | 13347.7 | 13463.2 | 13531.9 | 13560.0 |
| 7.5°  | 7687.0  | 7899.3  | 8136.6  | 8539.4  | 9341.8  | 9697.7  | 9857.0  | 9816.4  | 9685.3  | 9638.4  | 9591.6  |
| 10°   | 5794.9  | 5710.6  | 5666.9  | 5888.6  | 6538.0  | 6897.1  | 7009.5  | 6900.2  | 6828.4  | 6844.0  | 6922.1  |
| 12.5° | 4489.8  | 4343.1  | 4165.1  | 4140.1  | 4567.9  | 4889.5  | 4961.3  | 4967.5  | 5098.7  | 5214.2  | 5385.9  |
| 15°   | 3272.1  | 3256.5  | 3169.1  | 3116.0  | 3359.6  | 3621.8  | 3653.0  | 3709.2  | 3827.9  | 3912.2  | 4062.1  |
| 17.5° | 2307.4  | 2391.7  | 2460.3  | 2494.7  | 2678.9  | 2866.2  | 2831.9  | 2803.8  | 2781.9  | 2781.9  | 2853.7  |
| 20°   | 1860.9  | 1917.1  | 2004.5  | 2104.4  | 2291.7  | 2422.9  | 2338.6  | 2226.2  | 2145.0  | 2120.0  | 2129.4  |
| 22.5° | 1676.7  | 1720.4  | 1770.3  | 1857.7  | 2026.3  | 2116.9  | 2026.3  | 1945.2  | 1864.0  | 1835.9  | 1826.5  |
| 25°   | 1583.0  | 1639.2  | 1686.0  | 1751.6  | 1876.5  | 1938.9  | 1851.5  | 1792.2  | 1742.2  | 1707.9  | 1682.9  |
| 27.5° | 1529.9  | 1579.9  | 1592.4  | 1623.6  | 1729.7  | 1785.9  | 1742.2  | 1717.2  | 1686.0  | 1654.8  | 1623.6  |
| 30°   | 1473.7  | 1464.3  | 1442.5  | 1445.6  | 1529.9  | 1586.1  | 1583.0  | 1589.2  | 1586.1  | 1576.7  | 1570.5  |
| 32.5° | 1345.7  | 1327.0  | 1308.2  | 1327.0  | 1405.0  | 1455.0  | 1458.1  | 1470.6  | 1470.6  | 1467.5  | 1492.4  |
| 35°   | 1120.9  | 1155.2  | 1177.1  | 1233.3  | 1327.0  | 1370.7  | 1351.9  | 1320.7  | 1264.5  | 1230.2  | 1227.0  |
| 37.5° | 1036.6  | 1042.8  | 1080.3  | 1158.4  | 1261.4  | 1302.0  | 1273.9  | 1202.1  | 1164.6  | 1158.4  | 1167.7  |
| 40°   | 996.0   | 1002.2  | 1024.1  | 1095.9  | 1198.9  | 1239.5  | 1214.6  | 1161.5  | 1127.1  | 1124.0  | 1139.6  |
| 42.5° | 967.9   | 974.1   | 986.6   | 1036.6  | 1120.9  | 1170.8  | 1174.0  | 1136.5  | 1095.9  | 1099.0  | 1114.6  |
| 45°   | 952.3   | 955.4   | 952.3   | 977.3   | 1055.3  | 1114.6  | 1139.6  | 1114.6  | 1080.3  | 1086.5  | 1105.3  |
| 47.5° | 949.2   | 939.8   | 927.3   | 933.6   | 1014.7  | 1074.1  | 1105.3  | 1095.9  | 1080.3  | 1086.5  | 1102.2  |
| 50°   | 936.7   | 914.8   | 899.2   | 896.1   | 977.3   | 1039.7  | 1067.8  | 1067.8  | 1074.1  | 1086.5  | 1102.2  |
| 52.5° | 899.2   | 874.2   | 874.2   | 864.9   | 952.3   | 1011.6  | 1030.3  | 1033.5  | 1042.8  | 1064.7  | 1086.5  |
| 55°   | 852.4   | 843.0   | 852.4   | 836.8   | 933.6   | 989.8   | 999.1   | 1005.4  | 1011.6  | 1030.3  | 1061.6  |
| 57.5° | 811.8   | 799.3   | 821.2   | 814.9   | 917.9   | 967.9   | 967.9   | 980.4   | 980.4   | 1005.4  | 1030.3  |
| 60°   | 789.9   | 765.0   | 774.3   | 780.6   | 896.1   | 949.2   | 942.9   | 955.4   | 961.7   | 983.5   | 1002.2  |
| 62.5° | 761.8   | 740.0   | 740.0   | 755.6   | 871.1   | 921.1   | 917.9   | 927.3   | 952.3   | 958.5   | 977.3   |
| 65°   | 727.5   | 718.1   | 708.8   | 727.5   | 846.1   | 889.8   | 893.0   | 905.5   | 927.3   | 933.6   | 949.2   |
| 67.5° | 693.1   | 696.3   | 677.5   | 696.3   | 824.3   | 858.6   | 858.6   | 883.6   | 893.0   | 905.5   | 921.1   |
| 70°   | 655.7   | 658.8   | 643.2   | 665.0   | 808.7   | 824.3   | 821.2   | 855.5   | 861.7   | 871.1   | 886.7   |
| 72.5° | 608.8   | 608.8   | 602.6   | 633.8   | 783.7   | 789.9   | 783.7   | 811.8   | 814.9   | 824.3   | 830.5   |
| 75°   | 558.9   | 558.9   | 552.6   | 596.4   | 768.1   | 752.5   | 733.7   | 755.6   | 761.8   | 768.1   | 768.1   |
| 77.5° | 493.3   | 499.6   | 499.6   | 552.6   | 715.0   | 736.9   | 674.4   | 686.9   | 696.3   | 699.4   | 690.0   |
| 80°   | 412.1   | 427.7   | 434.0   | 502.7   | 599.5   | 680.7   | 602.6   | 612.0   | 615.1   | 615.1   | 602.6   |
| 82.5° | 315.3   | 343.4   | 359.1   | 434.0   | 459.0   | 571.4   | 524.5   | 533.9   | 524.5   | 505.8   | 499.6   |
| 85°   | 218.6   | 256.0   | 274.8   | 331.0   | 346.6   | 440.2   | 437.1   | 437.1   | 418.4   | 393.4   | 390.3   |
| 87.5° | 118.6   | 140.5   | 153.0   | 196.7   | 237.3   | 296.6   | 321.6   | 312.2   | 296.6   | 281.0   | 284.1   |
| 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):**

|       | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    | 285°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 |
| 2.5°  | 17216.2 | 17640.8 | 18318.3 | 18836.6 | 19358.0 | 19860.7 | 20404.0 | 20819.2 | 21172.1 | 21309.4 | 21727.8 |
| 5°    | 13844.1 | 14374.9 | 15015.0 | 16170.2 | 16988.2 | 17890.6 | 18933.4 | 20313.4 | 20844.2 | 21578.0 | 22780.0 |
| 7.5°  | 9788.3  | 10269.1 | 11299.5 | 12233.0 | 13391.4 | 14668.4 | 16076.5 | 17981.1 | 18677.4 | 19854.5 | 21812.1 |
| 10°   | 7309.2  | 7868.1  | 8695.5  | 9482.3  | 10503.3 | 11808.4 | 13425.7 | 15555.1 | 16401.2 | 17678.2 | 19932.5 |
| 12.5° | 5888.6  | 6547.4  | 7424.7  | 8164.7  | 8954.6  | 9875.7  | 11446.2 | 13781.7 | 14915.0 | 16032.8 | 18312.1 |
| 15°   | 4524.2  | 5214.2  | 6029.1  | 6968.9  | 7840.0  | 8832.9  | 10478.3 | 13032.3 | 14337.4 | 15502.0 | 17447.2 |
| 17.5° | 3131.6  | 3721.7  | 4749.0  | 5729.4  | 6844.0  | 8114.8  | 10209.8 | 13191.6 | 14749.6 | 16092.1 | 17597.1 |
| 20°   | 2219.9  | 2557.1  | 3400.1  | 4536.6  | 5926.1  | 7521.5  | 10159.8 | 14028.3 | 16054.7 | 17587.7 | 18558.7 |
| 22.5° | 1867.1  | 1992.0  | 2482.2  | 3525.0  | 5129.9  | 7078.2  | 10334.7 | 15202.3 | 17815.6 | 19773.3 | 20091.8 |
| 25°   | 1701.6  | 1776.6  | 2032.6  | 2766.3  | 4421.1  | 6756.6  | 10924.8 | 16950.8 | 19995.0 | 21958.9 | 21902.7 |
| 27.5° | 1611.1  | 1689.1  | 1857.7  | 2335.5  | 3887.2  | 6556.8  | 11514.9 | 19023.9 | 22486.5 | 24331.8 | 23632.4 |
| 30°   | 1583.0  | 1689.1  | 1867.1  | 2201.2  | 3506.3  | 6241.4  | 11998.9 | 20844.2 | 24403.6 | 25933.5 | 24419.2 |
| 32.5° | 1561.1  | 1576.7  | 1657.9  | 1898.3  | 3144.1  | 5873.0  | 12326.7 | 22477.2 | 26280.1 | 27457.2 | 25552.6 |
| 35°   | 1261.4  | 1339.5  | 1470.6  | 1701.6  | 2931.8  | 5651.3  | 12326.7 | 23885.3 | 28128.5 | 28996.4 | 26632.9 |
| 37.5° | 1214.6  | 1283.2  | 1398.8  | 1595.5  | 2813.2  | 5542.0  | 12080.0 | 25243.5 | 30017.4 | 30741.8 | 27522.7 |
| 40°   | 1189.6  | 1245.8  | 1355.1  | 1514.3  | 2763.2  | 5417.1  | 11721.0 | 26442.4 | 31862.7 | 32490.3 | 28353.3 |
| 42.5° | 1170.8  | 1220.8  | 1323.8  | 1464.3  | 2697.6  | 5279.7  | 11430.6 | 27404.1 | 33464.4 | 33982.7 | 29146.3 |
| 45°   | 1161.5  | 1214.6  | 1327.0  | 1489.3  | 2566.5  | 5098.7  | 11333.8 | 28443.8 | 34782.0 | 35228.5 | 30004.9 |
| 47.5° | 1161.5  | 1223.9  | 1342.6  | 1542.4  | 2410.4  | 4911.3  | 11636.7 | 29814.5 | 36027.8 | 36246.3 | 31016.6 |
| 50°   | 1152.1  | 1220.8  | 1386.3  | 1489.3  | 2182.5  | 4674.0  | 12348.5 | 31541.1 | 37376.6 | 37401.6 | 32296.7 |
| 52.5° | 1133.4  | 1214.6  | 1492.4  | 1458.1  | 1920.2  | 4361.8  | 13310.2 | 33757.9 | 39371.7 | 39521.6 | 34301.2 |
| 55°   | 1111.5  | 1205.2  | 1464.3  | 1386.3  | 1704.8  | 3990.3  | 14097.0 | 36452.4 | 42175.5 | 42590.8 | 37248.6 |
| 57.5° | 1083.4  | 1192.7  | 1417.5  | 1286.4  | 1564.3  | 3512.5  | 14381.1 | 38425.7 | 44133.2 | 45176.0 | 40570.7 |
| 60°   | 1058.4  | 1183.3  | 1280.1  | 1227.0  | 1476.8  | 3109.8  | 13831.6 | 38035.4 | 43998.9 | 46246.9 | 43515.0 |
| 62.5° | 1033.5  | 1192.7  | 1167.7  | 1189.6  | 1436.2  | 2850.6  | 12395.4 | 34910.0 | 41772.7 | 45141.7 | 45697.4 |
| 65°   | 1005.4  | 1108.4  | 1102.2  | 1158.4  | 1426.9  | 2747.6  | 10275.4 | 30223.5 | 37470.3 | 41647.9 | 46212.6 |
| 67.5° | 967.9   | 1024.1  | 1055.3  | 1117.8  | 1458.1  | 2657.0  | 8292.7  | 24931.3 | 31491.1 | 36411.8 | 43527.5 |
| 70°   | 927.3   | 974.1   | 1008.5  | 1067.8  | 1439.4  | 2616.5  | 6897.1  | 19660.9 | 24987.5 | 29842.6 | 38229.0 |
| 72.5° | 874.2   | 914.8   | 946.0   | 1002.2  | 1420.6  | 2594.6  | 5826.1  | 15833.0 | 18655.5 | 22168.1 | 31082.1 |
| 75°   | 811.8   | 849.3   | 871.1   | 927.3   | 1361.3  | 2376.0  | 4580.4  | 13397.6 | 13959.6 | 15420.9 | 24756.4 |
| 77.5° | 740.0   | 768.1   | 786.8   | 849.3   | 1205.2  | 1976.4  | 3312.7  | 10334.7 | 10840.5 | 11196.4 | 18980.2 |
| 80°   | 655.7   | 683.8   | 693.1   | 752.5   | 999.1   | 1545.5  | 2160.6  | 7633.9  | 8108.5  | 8189.7  | 12395.4 |
| 82.5° | 558.9   | 587.0   | 587.0   | 643.2   | 818.0   | 1111.5  | 1417.5  | 5229.8  | 5323.5  | 5598.2  | 8761.1  |
| 85°   | 449.6   | 471.5   | 471.5   | 499.6   | 633.8   | 830.5   | 974.1   | 2625.8  | 2597.7  | 2966.1  | 7590.2  |
| 87.5° | 321.6   | 337.2   | 352.8   | 359.1   | 452.7   | 549.5   | 587.0   | 799.3   | 527.7   | 605.7   | 4873.9  |
| 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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| 2.5°  | 22043.2 | 22221.1 | 22040.0 | 21908.9 | 21343.8 | 20878.6 | 20257.2 | 19938.8 |
| 5°    | 23694.8 | 24147.6 | 23994.6 | 23445.1 | 22264.9 | 20937.9 | 19429.8 | 18749.2 |
| 7.5°  | 23495.0 | 24547.2 | 24572.2 | 23545.0 | 21805.9 | 19851.3 | 17809.4 | 16841.5 |
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| 22.5° | 17778.2 | 16154.6 | 15948.5 | 16800.9 | 18502.5 | 20204.2 | 19782.7 | 17987.4 |
| 25°   | 18371.4 | 16192.1 | 16026.6 | 16850.8 | 18989.6 | 21724.7 | 22027.6 | 20391.5 |
| 27.5° | 19304.9 | 16429.3 | 16210.8 | 17056.9 | 19635.9 | 23001.7 | 24238.1 | 22720.7 |
| 30°   | 20191.7 | 16841.5 | 16569.8 | 17462.8 | 20226.0 | 23507.5 | 25593.2 | 24537.9 |
| 32.5° | 21268.9 | 17612.7 | 17135.0 | 18209.0 | 20956.6 | 24313.1 | 26801.5 | 26042.8 |
| 35°   | 22324.2 | 18711.7 | 18118.5 | 19361.1 | 21771.5 | 25315.3 | 28181.5 | 27966.1 |
| 37.5° | 23482.5 | 20148.0 | 19657.8 | 20850.5 | 22886.2 | 26261.3 | 29942.5 | 30220.4 |
| 40°   | 24719.0 | 22052.5 | 21471.8 | 23023.6 | 24615.9 | 27447.8 | 31781.5 | 32449.7 |
| 42.5° | 25964.7 | 24166.3 | 23473.2 | 25046.8 | 26517.4 | 28618.7 | 33355.1 | 34344.9 |
| 45°   | 27391.6 | 26461.2 | 26133.3 | 27835.0 | 28343.9 | 29733.3 | 34516.6 | 35746.8 |
| 47.5° | 29052.7 | 29065.1 | 29592.8 | 30273.5 | 30186.0 | 30994.7 | 35684.3 | 36998.8 |
| 50°   | 30991.6 | 32315.4 | 33480.0 | 33932.7 | 32084.4 | 32349.8 | 37304.8 | 38675.5 |
| 52.5° | 33320.8 | 36202.6 | 37645.1 | 37348.5 | 34129.4 | 34004.6 | 39871.3 | 40985.9 |
| 55°   | 36233.9 | 40317.8 | 41750.9 | 41538.6 | 36480.5 | 36258.8 | 43068.5 | 43717.9 |
| 57.5° | 39605.9 | 44304.9 | 45622.5 | 44667.1 | 39303.0 | 38731.7 | 45713.0 | 45850.4 |
| 60°   | 42568.9 | 47464.6 | 48619.9 | 47561.4 | 42150.5 | 41363.7 | 47364.7 | 46699.7 |
| 62.5° | 44217.5 | 48535.6 | 49347.4 | 48207.7 | 44102.0 | 44167.5 | 47726.9 | 46240.7 |
| 65°   | 43480.6 | 45828.6 | 46090.8 | 45997.2 | 43599.3 | 45794.2 | 46424.9 | 44120.7 |
| 67.5° | 39446.7 | 38984.6 | 39424.8 | 40033.6 | 39290.5 | 43652.3 | 42818.7 | 39502.9 |
| 70°   | 32340.4 | 29802.0 | 30679.3 | 31088.4 | 31425.6 | 37563.9 | 37164.3 | 32174.9 |
| 72.5° | 24372.4 | 20878.6 | 21571.7 | 21487.4 | 23048.5 | 30129.8 | 28902.8 | 23657.4 |
| 75°   | 17269.2 | 14156.3 | 14243.8 | 14209.4 | 16082.8 | 23573.1 | 20928.5 | 16185.8 |
| 77.5° | 12083.2 | 10256.6 | 10303.5 | 10497.0 | 10812.4 | 17778.2 | 14952.5 | 11824.0 |
| 80°   | 8308.3  | 7783.8  | 8042.9  | 8058.6  | 7493.4  | 11942.7 | 11046.6 | 9488.6  |
| 82.5° | 6188.3  | 5410.9  | 5348.4  | 5439.0  | 5873.0  | 9675.9  | 8489.4  | 6581.7  |
| 85°   | 5067.4  | 3203.4  | 2575.9  | 3228.4  | 5204.8  | 9582.2  | 5638.8  | 3472.0  |
| 87.5° | 2853.7  | 1520.5  | 686.9   | 1273.9  | 2076.3  | 6344.4  | 1629.8  | 443.4   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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