

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: P194627

Luminaire Tested: **GLEON-AF-09-LED-E1-SLL-7060-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194627  
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-09-LED-E1-SLL-7060-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37784 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 374  
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

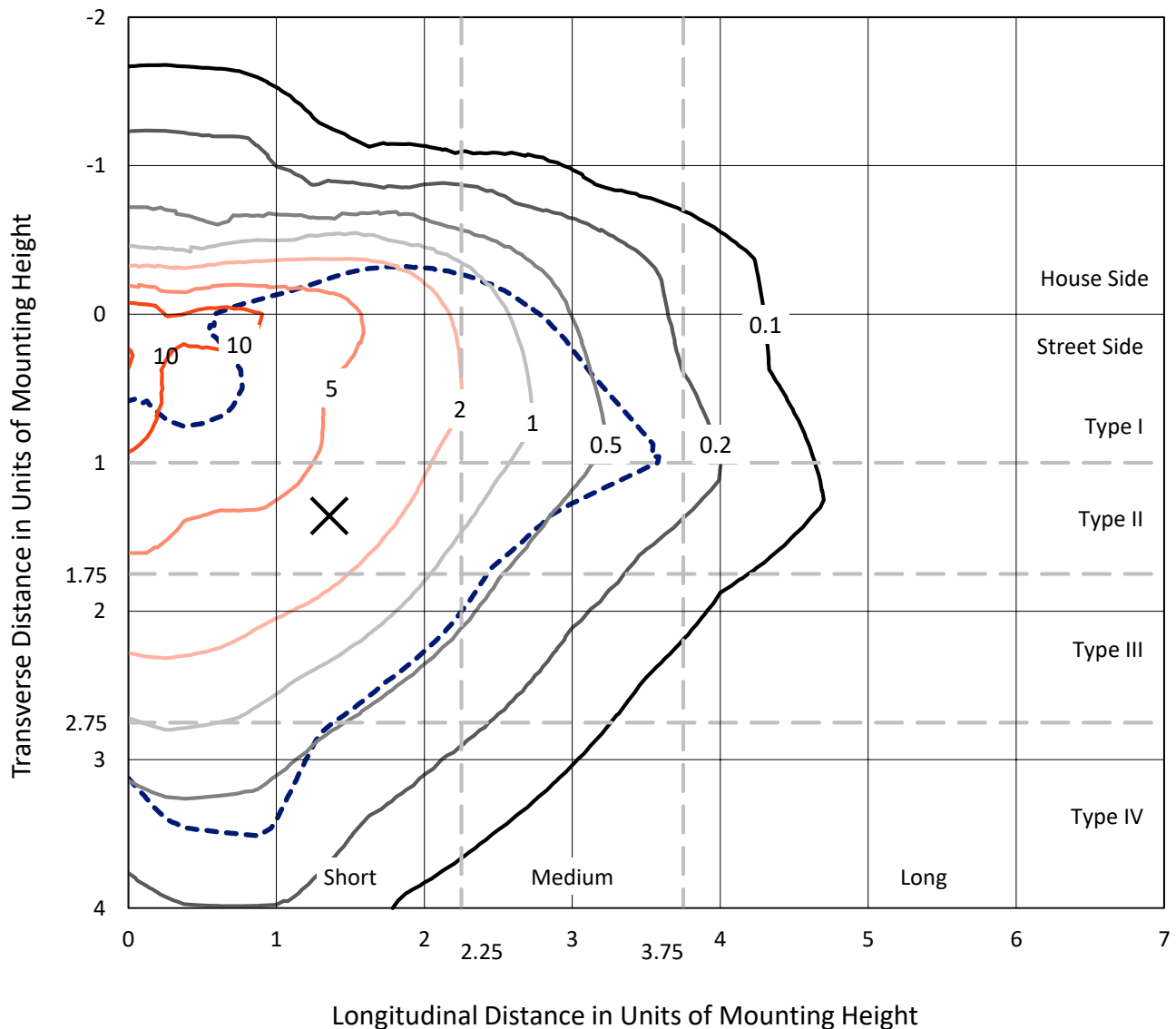


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

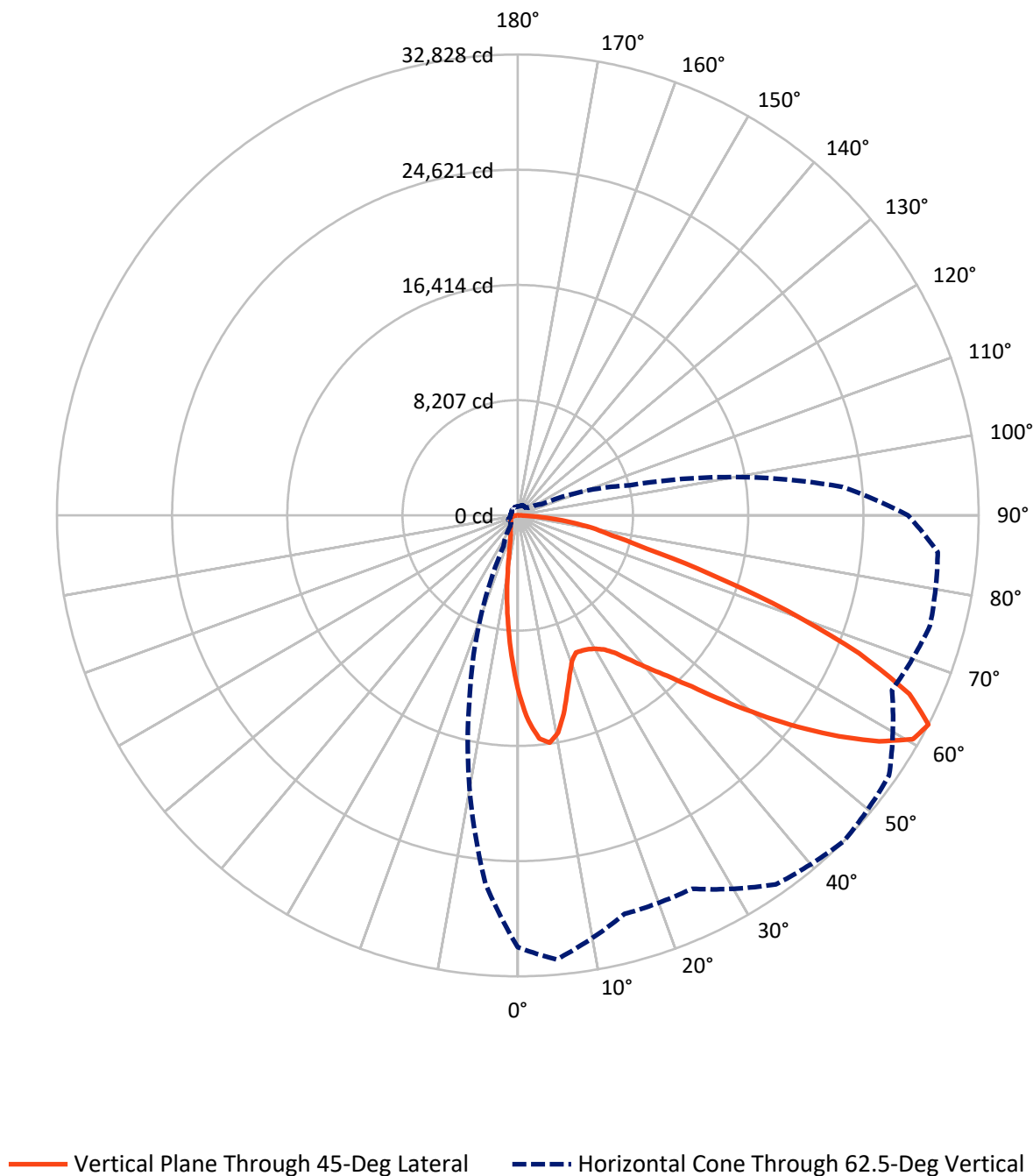


Based on 30 foot mounting height. Maximum calculated value = 16.7 fc  
Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6252.7   | 0.0    | 6252.7  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 31531.3  | 0.0    | 31531.3 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 37784.0  | 0.0    | 37784.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 929.3   | 2.5       |
| 10°-20°   | 1704.0  | 4.5       |
| 20°-30°   | 2484.5  | 6.6       |
| 30°-40°   | 3826.4  | 10.1      |
| 40°-50°   | 5631.5  | 14.9      |
| 50°-60°   | 8260.2  | 21.9      |
| 60°-70°   | 9233.7  | 24.4      |
| 70°-80°   | 4520.7  | 12.0      |
| 80°-90°   | 1193.6  | 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°    | 37784.0 | 100.0     |
| 0°-180°   | 37784.0 | 100.0     |

**Coefficient of Utilization**



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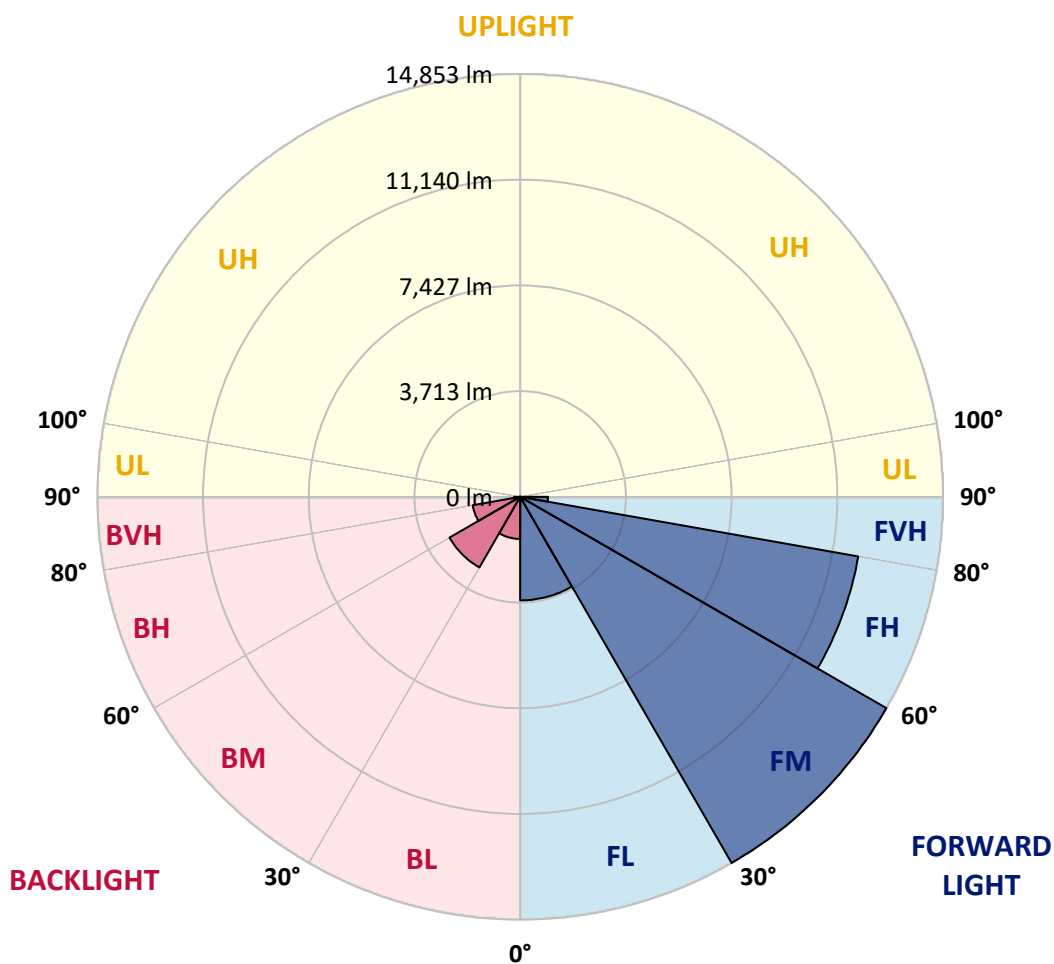
CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-7060-800

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3638.5  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 14853.2 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 12059.4 | 31.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 980.2   | 2.6       |                         |      | G5      |
| BL   | (0°-30°)    | 1479.3  | 3.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2865.0  | 7.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1695.1  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 213.4   | 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°    | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 |
| 2.5°  | 13264.0 | 13475.8 | 13889.1 | 14198.6 | 14574.6 | 14661.8 | 14782.3 | 14663.9 | 14454.1 | 14175.8 | 14084.4 |
| 5°    | 12472.6 | 12925.4 | 13928.6 | 14811.4 | 15596.5 | 15962.0 | 16063.8 | 15762.6 | 15154.1 | 14354.4 | 13866.3 |
| 7.5°  | 11203.5 | 11847.4 | 13205.8 | 14506.0 | 15662.9 | 16346.3 | 16329.7 | 15629.7 | 14510.2 | 13207.9 | 12424.8 |
| 10°   | 10108.9 | 10844.2 | 12402.0 | 13855.9 | 15083.4 | 15746.0 | 15490.5 | 14595.3 | 13259.8 | 11760.2 | 10910.7 |
| 12.5° | 9496.2  | 10216.9 | 11797.6 | 13257.7 | 14283.8 | 14512.3 | 14317.0 | 13440.5 | 12181.8 | 10665.6 | 9922.0  |
| 15°   | 9390.3  | 10181.6 | 11556.6 | 12744.7 | 13320.0 | 13120.6 | 12888.0 | 12495.5 | 11606.5 | 10312.5 | 9537.8  |
| 17.5° | 9849.3  | 10721.7 | 11832.9 | 12387.4 | 12289.8 | 11943.0 | 11876.5 | 11920.1 | 11706.2 | 10705.0 | 9811.9  |
| 20°   | 10730.0 | 11776.8 | 12491.3 | 12219.2 | 11506.8 | 11029.1 | 11045.7 | 11712.4 | 12345.9 | 11700.0 | 10680.1 |
| 22.5° | 11965.8 | 13160.1 | 13440.5 | 12308.5 | 11176.5 | 10609.5 | 10746.6 | 11826.6 | 13365.7 | 13153.9 | 11851.6 |
| 25°   | 13565.1 | 14653.5 | 14452.0 | 12632.5 | 11209.8 | 10661.4 | 10771.5 | 12221.3 | 14570.4 | 14607.8 | 13301.3 |
| 27.5° | 15114.6 | 16124.0 | 15301.5 | 13062.5 | 11346.9 | 10784.0 | 10929.4 | 12842.3 | 15721.1 | 16186.4 | 14958.8 |
| 30°   | 16323.4 | 17025.5 | 15638.0 | 13455.0 | 11616.9 | 11022.8 | 11203.5 | 13432.2 | 16244.5 | 17251.9 | 16234.1 |
| 32.5° | 17324.6 | 17829.3 | 16173.9 | 13941.1 | 12113.3 | 11398.8 | 11716.6 | 14148.8 | 16998.5 | 18265.5 | 17482.4 |
| 35°   | 18604.0 | 18747.3 | 16840.6 | 14483.2 | 12879.7 | 12053.0 | 12447.7 | 14850.8 | 17717.1 | 19289.4 | 18712.0 |
| 37.5° | 20103.6 | 19918.8 | 17470.0 | 15224.7 | 13870.5 | 13077.0 | 13403.1 | 15621.4 | 18309.1 | 20450.5 | 19968.6 |
| 40°   | 21586.6 | 21142.2 | 18259.2 | 16375.4 | 15316.1 | 14283.8 | 14670.1 | 16443.9 | 18861.6 | 21613.6 | 21196.2 |
| 42.5° | 22847.4 | 22189.0 | 19038.1 | 17640.3 | 16662.0 | 15615.2 | 16076.3 | 17272.6 | 19389.1 | 22606.5 | 22261.7 |
| 45°   | 23780.0 | 22961.6 | 19779.6 | 18855.3 | 18516.8 | 17384.8 | 17602.9 | 18221.8 | 19960.3 | 23435.2 | 23138.2 |
| 47.5° | 24612.9 | 23738.5 | 20618.7 | 20080.8 | 20139.0 | 19686.2 | 19335.1 | 19326.8 | 20633.3 | 24112.3 | 23966.9 |
| 50°   | 25728.3 | 24816.4 | 21520.2 | 21343.6 | 22573.2 | 22272.1 | 21497.3 | 20616.7 | 21484.9 | 24880.8 | 24864.2 |
| 52.5° | 27265.3 | 26523.8 | 22621.0 | 22704.1 | 24845.5 | 25042.8 | 24083.2 | 22166.1 | 22818.3 | 26291.1 | 26191.4 |
| 55°   | 29082.7 | 28650.7 | 24120.6 | 24268.1 | 27632.9 | 27774.1 | 26820.8 | 24104.0 | 24779.1 | 28332.9 | 28056.6 |
| 57.5° | 30501.3 | 30409.9 | 25765.6 | 26145.7 | 29714.1 | 30349.7 | 29473.2 | 26347.2 | 26989.0 | 30052.7 | 29358.9 |
| 60°   | 31066.2 | 31508.7 | 27516.6 | 28040.0 | 31639.5 | 32343.6 | 31575.1 | 28318.3 | 28947.7 | 30765.1 | 29269.6 |
| 62.5° | 30760.9 | 31749.6 | 29381.8 | 29338.2 | 32069.5 | 32827.6 | 32287.5 | 29415.0 | 30399.5 | 30029.8 | 27788.7 |
| 65°   | 29350.6 | 30883.5 | 30463.9 | 29003.7 | 30598.9 | 30661.2 | 30486.8 | 28924.8 | 30742.2 | 27705.6 | 24926.5 |
| 67.5° | 26278.7 | 28484.5 | 29039.1 | 26137.4 | 26631.8 | 26226.7 | 25933.9 | 26241.3 | 28956.0 | 24222.4 | 20949.0 |
| 70°   | 21403.9 | 24723.0 | 24988.8 | 20905.4 | 20681.1 | 20409.0 | 19825.3 | 21514.0 | 25431.2 | 19852.3 | 16622.5 |
| 72.5° | 15737.7 | 19227.1 | 20043.4 | 15332.7 | 14294.2 | 14350.2 | 13889.1 | 16213.4 | 20676.9 | 14747.0 | 12410.3 |
| 75°   | 10767.4 | 13922.4 | 15681.6 | 10698.8 | 9452.6  | 9475.4  | 9417.3  | 11488.1 | 16468.8 | 10258.5 | 9286.4  |
| 77.5° | 7865.7  | 9946.9  | 11826.6 | 7192.8  | 6983.0  | 6854.2  | 6823.1  | 8038.1  | 12626.3 | 7448.3  | 7211.5  |
| 80°   | 6312.1  | 7348.6  | 7944.7  | 4984.9  | 5360.8  | 5350.4  | 5178.1  | 5527.0  | 8245.8  | 5448.1  | 5394.1  |
| 82.5° | 4378.4  | 5647.5  | 6436.7  | 3906.9  | 3618.2  | 3558.0  | 3599.5  | 4116.7  | 5828.2  | 3724.1  | 3541.3  |
| 85°   | 2309.7  | 3751.1  | 6374.4  | 3462.4  | 2147.7  | 1713.6  | 2131.0  | 3371.0  | 5049.3  | 1973.2  | 1728.1  |
| 87.5° | 294.9   | 1084.2  | 4220.5  | 1381.2  | 847.4   | 456.9   | 1011.5  | 1898.4  | 3242.3  | 402.9   | 351.0   |
| 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):**

|       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    | 185°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 |
| 2.5°  | 13849.7 | 13573.4 | 13212.0 | 12877.6 | 12530.8 | 12186.0 | 11735.3 | 11452.8 | 11257.5 | 11220.2 | 11137.1 |
| 5°    | 13513.2 | 12595.2 | 11901.4 | 11301.2 | 10757.0 | 9988.5  | 9562.7  | 9209.6  | 9020.6  | 9001.9  | 8956.2  |
| 7.5°  | 11961.7 | 10694.7 | 9757.9  | 8908.4  | 8137.8  | 7516.8  | 6831.4  | 6511.5  | 6380.7  | 6411.8  | 6443.0  |
| 10°   | 10347.8 | 8931.3  | 7855.4  | 6987.2  | 6308.0  | 5784.5  | 5234.1  | 4862.3  | 4604.8  | 4552.9  | 4542.5  |
| 12.5° | 9168.0  | 7614.4  | 6569.7  | 5956.9  | 5431.5  | 4939.2  | 4355.5  | 3917.3  | 3582.9  | 3468.7  | 3391.8  |
| 15°   | 8669.6  | 6970.5  | 5875.9  | 5215.4  | 4635.9  | 4010.8  | 3468.7  | 3009.6  | 2702.2  | 2602.5  | 2546.4  |
| 17.5° | 8775.5  | 6791.9  | 5398.2  | 4552.9  | 3811.4  | 3159.2  | 2475.8  | 2083.3  | 1898.4  | 1850.6  | 1850.6  |
| 20°   | 9332.1  | 6758.7  | 5003.6  | 3942.2  | 3017.9  | 2261.9  | 1701.1  | 1476.8  | 1416.5  | 1410.3  | 1426.9  |
| 22.5° | 10113.1 | 6875.0  | 4708.6  | 3412.6  | 2345.0  | 1651.2  | 1325.1  | 1242.1  | 1215.1  | 1221.3  | 1240.0  |
| 25°   | 11276.2 | 7267.6  | 4494.7  | 2941.1  | 1840.3  | 1352.2  | 1181.8  | 1132.0  | 1119.5  | 1136.1  | 1159.0  |
| 27.5° | 12655.4 | 7660.1  | 4361.8  | 2585.9  | 1553.6  | 1235.8  | 1123.7  | 1071.8  | 1080.1  | 1100.8  | 1121.6  |
| 30°   | 13866.3 | 7982.1  | 4152.0  | 2332.5  | 1464.3  | 1242.1  | 1123.7  | 1053.1  | 1044.7  | 1048.9  | 1055.1  |
| 32.5° | 14952.6 | 8200.1  | 3906.9  | 2091.6  | 1262.8  | 1102.9  | 1048.9  | 1038.5  | 992.8   | 976.2   | 978.3   |
| 35°   | 15889.3 | 8200.1  | 3759.4  | 1950.3  | 1132.0  | 978.3   | 891.0   | 839.1   | 816.3   | 818.4   | 841.2   |
| 37.5° | 16792.8 | 8036.1  | 3686.7  | 1871.4  | 1061.4  | 930.5   | 853.7   | 808.0   | 776.8   | 770.6   | 774.7   |
| 40°   | 17590.4 | 7797.2  | 3603.7  | 1838.2  | 1007.4  | 901.4   | 828.7   | 791.4   | 758.1   | 747.7   | 749.8   |
| 42.5° | 18230.2 | 7604.0  | 3512.3  | 1794.6  | 974.1   | 880.7   | 812.1   | 778.9   | 741.5   | 731.1   | 729.0   |
| 45°   | 18921.8 | 7539.6  | 3391.8  | 1707.3  | 990.7   | 882.7   | 808.0   | 772.7   | 735.3   | 722.8   | 718.7   |
| 47.5° | 19833.6 | 7741.1  | 3267.2  | 1603.5  | 1026.1  | 893.1   | 814.2   | 772.7   | 733.2   | 722.8   | 718.7   |
| 50°   | 20982.2 | 8214.7  | 3109.3  | 1451.8  | 990.7   | 922.2   | 812.1   | 766.4   | 733.2   | 722.8   | 714.5   |
| 52.5° | 22456.9 | 8854.4  | 2901.6  | 1277.4  | 970.0   | 992.8   | 808.0   | 754.0   | 722.8   | 708.3   | 693.7   |
| 55°   | 24249.4 | 9377.8  | 2654.5  | 1134.1  | 922.2   | 974.1   | 801.7   | 739.4   | 706.2   | 685.4   | 673.0   |
| 57.5° | 25562.1 | 9566.8  | 2336.7  | 1040.6  | 855.7   | 943.0   | 793.4   | 720.7   | 685.4   | 668.8   | 652.2   |
| 60°   | 25302.5 | 9201.3  | 2068.7  | 982.4   | 816.3   | 851.6   | 787.2   | 704.1   | 666.7   | 654.3   | 639.7   |
| 62.5° | 23223.4 | 8245.8  | 1896.3  | 955.4   | 791.4   | 776.8   | 793.4   | 687.5   | 650.1   | 637.7   | 633.5   |
| 65°   | 20105.7 | 6835.5  | 1827.8  | 949.2   | 770.6   | 733.2   | 737.3   | 668.8   | 631.4   | 621.0   | 616.9   |
| 67.5° | 16585.1 | 5516.6  | 1767.6  | 970.0   | 743.6   | 702.0   | 681.3   | 643.9   | 612.7   | 602.3   | 594.0   |
| 70°   | 13079.1 | 4588.2  | 1740.6  | 957.5   | 710.3   | 670.9   | 648.0   | 616.9   | 589.9   | 579.5   | 573.3   |
| 72.5° | 10532.7 | 3875.8  | 1726.0  | 945.1   | 666.7   | 629.3   | 608.6   | 581.6   | 552.5   | 548.3   | 542.1   |
| 75°   | 8912.6  | 3047.0  | 1580.6  | 905.6   | 616.9   | 579.5   | 565.0   | 540.0   | 511.0   | 511.0   | 506.8   |
| 77.5° | 6875.0  | 2203.7  | 1314.8  | 801.7   | 565.0   | 523.4   | 511.0   | 492.3   | 459.0   | 465.3   | 463.2   |
| 80°   | 5078.4  | 1437.3  | 1028.1  | 664.7   | 500.6   | 461.1   | 454.9   | 436.2   | 400.9   | 409.2   | 409.2   |
| 82.5° | 3479.0  | 943.0   | 739.4   | 544.2   | 427.9   | 390.5   | 390.5   | 371.8   | 332.3   | 336.5   | 348.9   |
| 85°   | 1746.8  | 648.0   | 552.5   | 421.6   | 332.3   | 313.6   | 313.6   | 299.1   | 259.6   | 261.7   | 278.3   |
| 87.5° | 531.7   | 390.5   | 365.6   | 301.2   | 238.9   | 234.7   | 224.3   | 213.9   | 189.0   | 186.9   | 197.3   |
| 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°    | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 |
| 2.5°  | 11010.4 | 10892.0 | 10748.7 | 10433.0 | 10327.0 | 10320.8 | 10416.3 | 10316.6 | 10507.7 | 10426.7 | 10516.0 |
| 5°    | 8879.3  | 8763.0  | 8603.1  | 8200.1  | 7955.1  | 7788.9  | 7710.0  | 7477.3  | 7645.6  | 7523.0  | 7624.8  |
| 7.5°  | 6530.2  | 6557.2  | 6451.3  | 6214.5  | 5680.7  | 5412.8  | 5254.9  | 5113.7  | 5236.2  | 5223.7  | 5419.0  |
| 10°   | 4590.3  | 4662.9  | 4588.2  | 4349.3  | 3917.3  | 3769.8  | 3798.9  | 3855.0  | 4014.9  | 4098.0  | 4399.2  |
| 12.5° | 3304.6  | 3300.4  | 3252.6  | 3038.7  | 2754.2  | 2770.8  | 2889.2  | 2986.8  | 3134.2  | 3221.5  | 3528.9  |
| 15°   | 2467.5  | 2430.1  | 2409.4  | 2234.9  | 2072.9  | 2108.2  | 2166.3  | 2176.7  | 2270.2  | 2322.1  | 2571.4  |
| 17.5° | 1865.2  | 1883.9  | 1906.7  | 1782.1  | 1659.6  | 1636.7  | 1591.0  | 1534.9  | 1561.9  | 1572.3  | 1696.9  |
| 20°   | 1480.9  | 1555.7  | 1611.8  | 1524.5  | 1399.9  | 1333.5  | 1275.3  | 1237.9  | 1237.9  | 1235.8  | 1271.1  |
| 22.5° | 1294.0  | 1348.0  | 1408.2  | 1348.0  | 1235.8  | 1177.7  | 1144.4  | 1115.4  | 1111.2  | 1111.2  | 1144.4  |
| 25°   | 1192.2  | 1231.7  | 1289.8  | 1248.3  | 1165.2  | 1121.6  | 1090.4  | 1053.1  | 1038.5  | 1034.4  | 1057.2  |
| 27.5° | 1142.4  | 1159.0  | 1188.1  | 1150.7  | 1080.1  | 1059.3  | 1051.0  | 1017.7  | 999.1   | 988.7   | 1011.5  |
| 30°   | 1057.2  | 1053.1  | 1055.1  | 1017.7  | 961.7   | 959.6   | 974.1   | 980.4   | 974.1   | 972.1   | 1007.4  |
| 32.5° | 978.3   | 970.0   | 967.9   | 934.7   | 882.7   | 870.3   | 882.7   | 895.2   | 909.7   | 930.5   | 972.1   |
| 35°   | 878.6   | 899.4   | 911.8   | 882.7   | 820.4   | 783.0   | 768.5   | 745.7   | 733.2   | 733.2   | 781.0   |
| 37.5° | 799.7   | 847.4   | 866.1   | 839.1   | 770.6   | 718.7   | 693.7   | 689.6   | 691.7   | 700.0   | 745.7   |
| 40°   | 772.7   | 808.0   | 824.6   | 797.6   | 729.0   | 681.3   | 666.7   | 662.6   | 666.7   | 679.2   | 724.9   |
| 42.5° | 756.0   | 781.0   | 778.9   | 745.7   | 689.6   | 656.3   | 648.0   | 643.9   | 648.0   | 660.5   | 710.3   |
| 45°   | 741.5   | 758.1   | 741.5   | 702.0   | 650.1   | 633.5   | 635.6   | 633.5   | 637.7   | 650.1   | 697.9   |
| 47.5° | 729.0   | 735.3   | 714.5   | 675.0   | 621.0   | 616.9   | 625.2   | 631.4   | 635.6   | 646.0   | 695.8   |
| 50°   | 710.3   | 710.3   | 691.7   | 650.1   | 596.1   | 598.2   | 608.6   | 623.1   | 625.2   | 637.7   | 677.1   |
| 52.5° | 687.5   | 685.4   | 673.0   | 633.5   | 575.3   | 581.6   | 581.6   | 598.2   | 602.3   | 616.9   | 658.4   |
| 55°   | 668.8   | 664.7   | 658.4   | 621.0   | 556.6   | 567.0   | 560.8   | 567.0   | 577.4   | 592.0   | 637.7   |
| 57.5° | 652.2   | 643.9   | 643.9   | 610.6   | 542.1   | 546.3   | 531.7   | 540.0   | 552.5   | 565.0   | 612.7   |
| 60°   | 635.6   | 627.3   | 631.4   | 596.1   | 519.3   | 515.1   | 508.9   | 525.5   | 529.6   | 544.2   | 592.0   |
| 62.5° | 616.9   | 610.6   | 612.7   | 579.5   | 502.6   | 492.3   | 492.3   | 506.8   | 508.9   | 529.6   | 575.3   |
| 65°   | 602.3   | 594.0   | 592.0   | 562.9   | 483.9   | 471.5   | 477.7   | 483.9   | 488.1   | 508.9   | 552.5   |
| 67.5° | 587.8   | 571.2   | 571.2   | 548.3   | 463.2   | 450.7   | 463.2   | 461.1   | 467.3   | 486.0   | 521.3   |
| 70°   | 569.1   | 546.3   | 548.3   | 538.0   | 442.4   | 427.9   | 438.3   | 436.2   | 440.3   | 452.8   | 488.1   |
| 72.5° | 540.0   | 521.3   | 525.5   | 521.3   | 421.6   | 400.9   | 405.0   | 405.0   | 405.0   | 415.4   | 452.8   |
| 75°   | 502.6   | 488.1   | 500.6   | 511.0   | 396.7   | 367.6   | 371.8   | 371.8   | 365.6   | 371.8   | 417.5   |
| 77.5° | 456.9   | 448.6   | 490.2   | 475.6   | 367.6   | 332.3   | 332.3   | 328.2   | 315.7   | 324.0   | 373.9   |
| 80°   | 407.1   | 400.9   | 452.8   | 398.8   | 334.4   | 288.7   | 284.6   | 274.2   | 261.7   | 267.9   | 317.8   |
| 82.5° | 355.2   | 348.9   | 380.1   | 305.3   | 288.7   | 238.9   | 228.5   | 209.8   | 197.3   | 203.5   | 249.2   |
| 85°   | 290.8   | 290.8   | 292.9   | 230.6   | 220.2   | 182.8   | 170.3   | 145.4   | 130.9   | 135.0   | 178.6   |
| 87.5° | 207.7   | 213.9   | 197.3   | 157.9   | 130.9   | 101.8   | 93.5    | 78.9    | 66.5    | 76.9    | 93.5    |
| 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°    | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 | 12765.5 |
| 2.5°  | 10973.0 | 11201.5 | 11461.1 | 11793.4 | 12078.0 | 12545.3 | 12993.9 | 13264.0 |
| 5°    | 8204.3  | 8584.4  | 9058.0  | 9666.5  | 10233.6 | 11085.1 | 11930.5 | 12472.6 |
| 7.5°  | 5871.8  | 6278.9  | 6789.8  | 7550.0  | 8351.8  | 9438.1  | 10555.5 | 11203.5 |
| 10°   | 4858.2  | 5275.7  | 5705.6  | 6218.6  | 6875.0  | 8056.8  | 9377.8  | 10108.9 |
| 12.5° | 4019.1  | 4465.6  | 4928.8  | 5468.8  | 6077.4  | 7132.5  | 8655.0  | 9496.2  |
| 15°   | 3076.1  | 3574.6  | 4120.8  | 4804.2  | 5566.5  | 6785.7  | 8476.4  | 9390.3  |
| 17.5° | 2108.2  | 2664.8  | 3335.7  | 4179.0  | 5111.6  | 6673.5  | 8796.3  | 9849.3  |
| 20°   | 1451.8  | 1856.9  | 2573.4  | 3562.1  | 4683.7  | 6659.0  | 9411.1  | 10730.0 |
| 22.5° | 1215.1  | 1395.8  | 1919.2  | 2995.1  | 4361.8  | 6837.6  | 10364.4 | 11965.8 |
| 25°   | 1123.7  | 1231.7  | 1532.9  | 2502.8  | 4127.1  | 7248.9  | 11677.1 | 13565.1 |
| 27.5° | 1069.7  | 1167.3  | 1391.6  | 2180.9  | 3942.2  | 7726.6  | 12954.5 | 15114.6 |
| 30°   | 1090.4  | 1190.1  | 1352.2  | 2016.8  | 3690.9  | 8125.4  | 14088.5 | 16323.4 |
| 32.5° | 982.4   | 1026.1  | 1159.0  | 1871.4  | 3510.2  | 8459.8  | 15081.4 | 17324.6 |
| 35°   | 837.0   | 913.9   | 1034.4  | 1802.9  | 3514.3  | 8684.1  | 16163.5 | 18604.0 |
| 37.5° | 797.6   | 874.4   | 961.7   | 1777.9  | 3562.1  | 8923.0  | 17405.6 | 20103.6 |
| 40°   | 772.7   | 843.3   | 918.1   | 1763.4  | 3607.8  | 9141.0  | 18622.7 | 21586.6 |
| 42.5° | 756.0   | 820.4   | 913.9   | 1713.6  | 3630.7  | 9336.3  | 19623.8 | 22847.4 |
| 45°   | 754.0   | 820.4   | 930.5   | 1663.7  | 3666.0  | 9546.1  | 20463.0 | 23780.0 |
| 47.5° | 756.0   | 847.4   | 899.4   | 1603.5  | 3666.0  | 9897.1  | 21447.5 | 24612.9 |
| 50°   | 747.7   | 893.1   | 866.1   | 1518.3  | 3580.8  | 10561.7 | 22797.6 | 25728.3 |
| 52.5° | 743.6   | 886.9   | 801.7   | 1387.5  | 3433.3  | 11616.9 | 24527.7 | 27265.3 |
| 55°   | 733.2   | 855.7   | 756.0   | 1192.2  | 3260.9  | 12767.5 | 26380.4 | 29082.7 |
| 57.5° | 722.8   | 758.1   | 731.1   | 1021.9  | 2995.1  | 13577.6 | 27655.8 | 30501.3 |
| 60°   | 810.0   | 662.6   | 710.3   | 938.8   | 2639.9  | 13799.8 | 27605.9 | 31066.2 |
| 62.5° | 749.8   | 621.0   | 683.3   | 920.1   | 2390.7  | 13176.7 | 26330.6 | 30760.9 |
| 65°   | 587.8   | 594.0   | 656.3   | 974.1   | 2324.2  | 11525.5 | 24070.8 | 29350.6 |
| 67.5° | 538.0   | 567.0   | 629.3   | 1042.7  | 2330.4  | 9228.3  | 20693.5 | 26278.7 |
| 70°   | 506.8   | 538.0   | 598.2   | 1078.0  | 2347.1  | 6879.1  | 16360.8 | 21403.9 |
| 72.5° | 471.5   | 498.5   | 562.9   | 1084.2  | 2239.0  | 4997.4  | 12609.7 | 15737.7 |
| 75°   | 429.9   | 454.9   | 513.0   | 945.1   | 1854.8  | 3466.6  | 9645.8  | 10767.4 |
| 77.5° | 382.2   | 400.9   | 450.7   | 729.0   | 1377.1  | 2218.3  | 7240.6  | 7865.7  |
| 80°   | 326.1   | 336.5   | 378.0   | 533.8   | 943.0   | 1387.5  | 5728.5  | 6312.1  |
| 82.5° | 261.7   | 265.9   | 292.9   | 400.9   | 612.7   | 891.0   | 3836.3  | 4378.4  |
| 85°   | 184.9   | 184.9   | 201.5   | 290.8   | 417.5   | 565.0   | 2083.3  | 2309.7  |
| 87.5° | 87.2    | 89.3    | 89.3    | 159.9   | 218.1   | 286.6   | 479.8   | 294.9   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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