

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: P194755

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)  
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-T2R-7060  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43863 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 391  
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



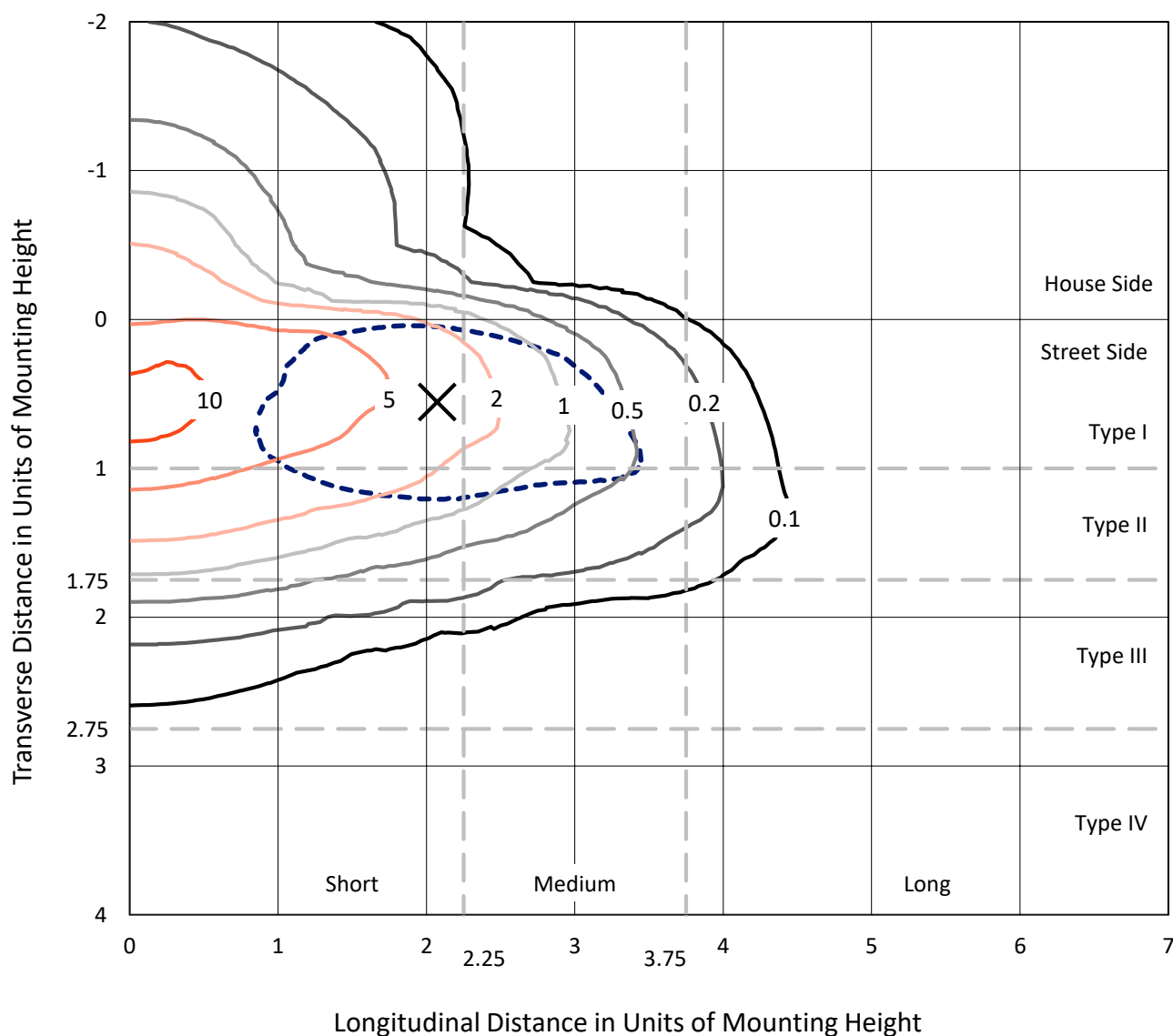
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

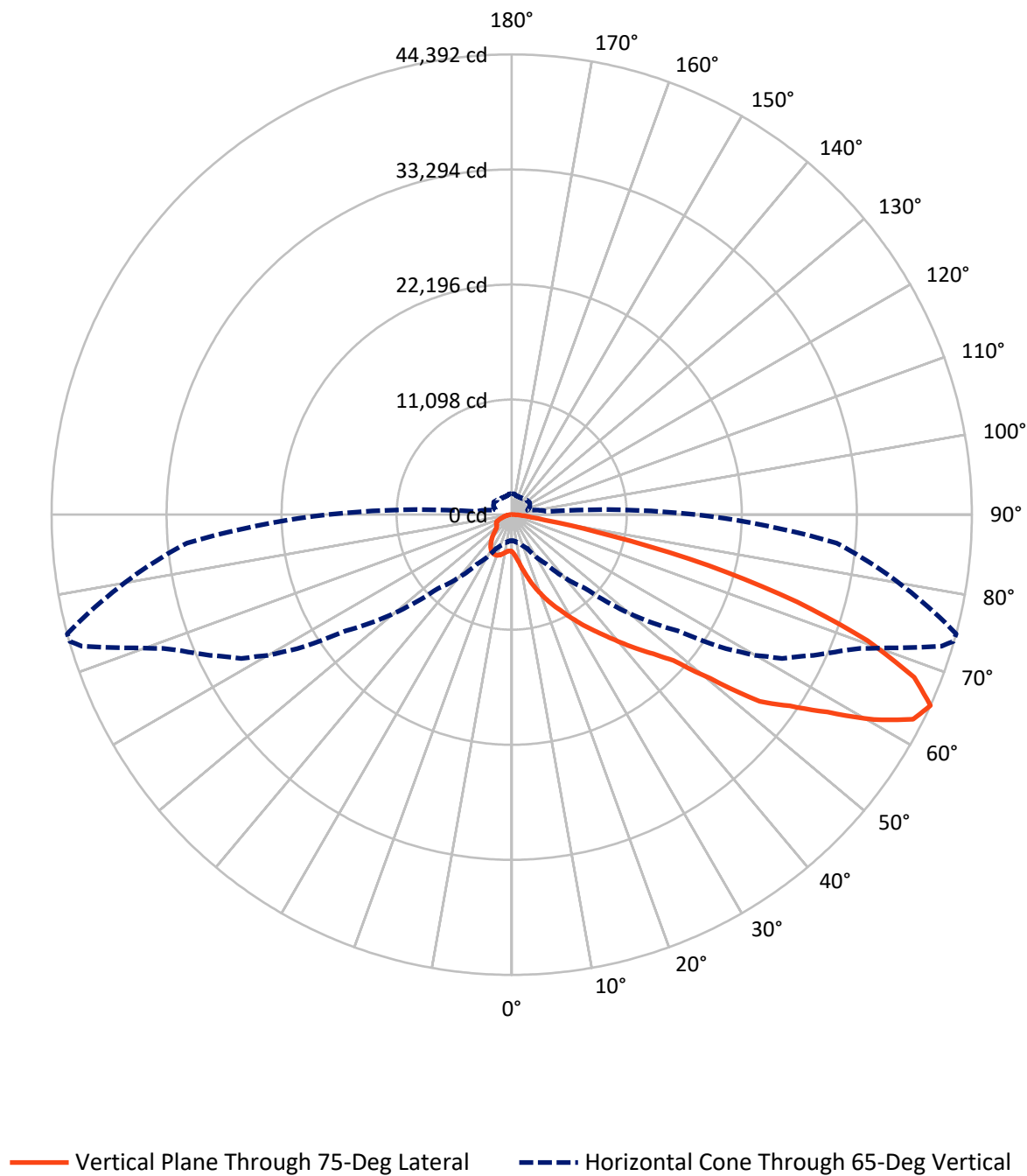


Based on 30 foot mounting height. Maximum calculated value = 12.3 fc  
Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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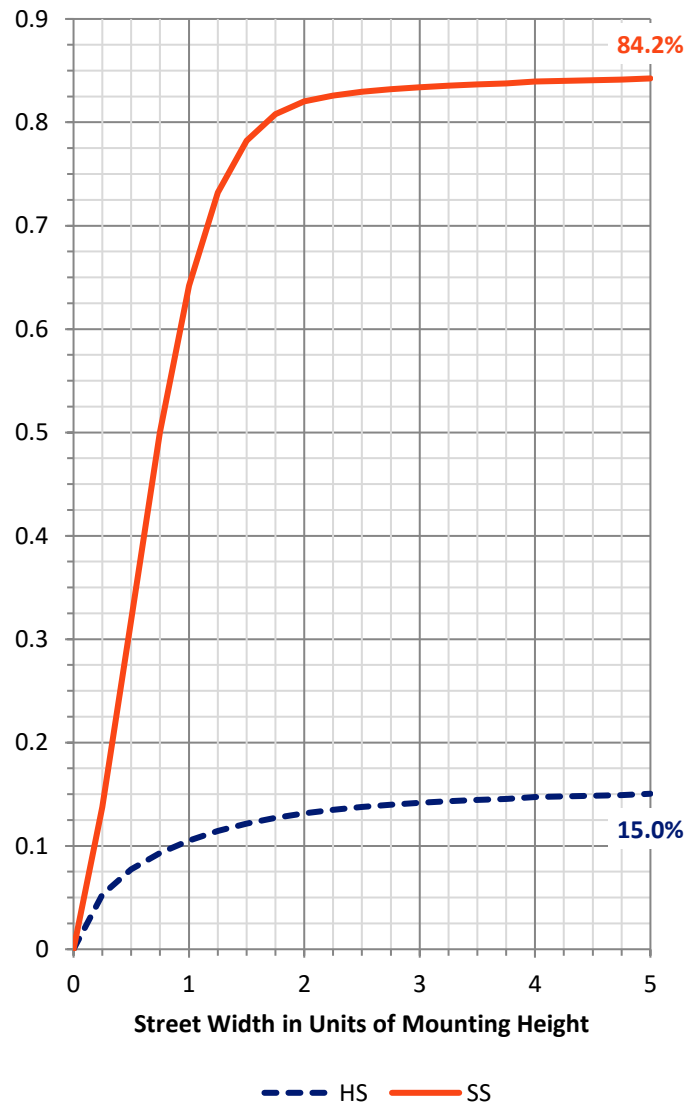
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6762.6   | 0.0    | 6762.6  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 37100.4  | 0.0    | 37100.4 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 43863.0  | 0.0    | 43863.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 440.6   | 1.0       |
| 10°-20°   | 1721.6  | 3.9       |
| 20°-30°   | 3532.1  | 8.1       |
| 30°-40°   | 5942.5  | 13.5      |
| 40°-50°   | 8210.9  | 18.7      |
| 50°-60°   | 10249.7 | 23.4      |
| 60°-70°   | 9223.6  | 21.0      |
| 70°-80°   | 3866.5  | 8.8       |
| 80°-90°   | 675.5   | 1.5       |
| 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°    | 43863.0 | 100.0     |
| 0°-180°   | 43863.0 | 100.0     |

**Coefficient of Utilization**



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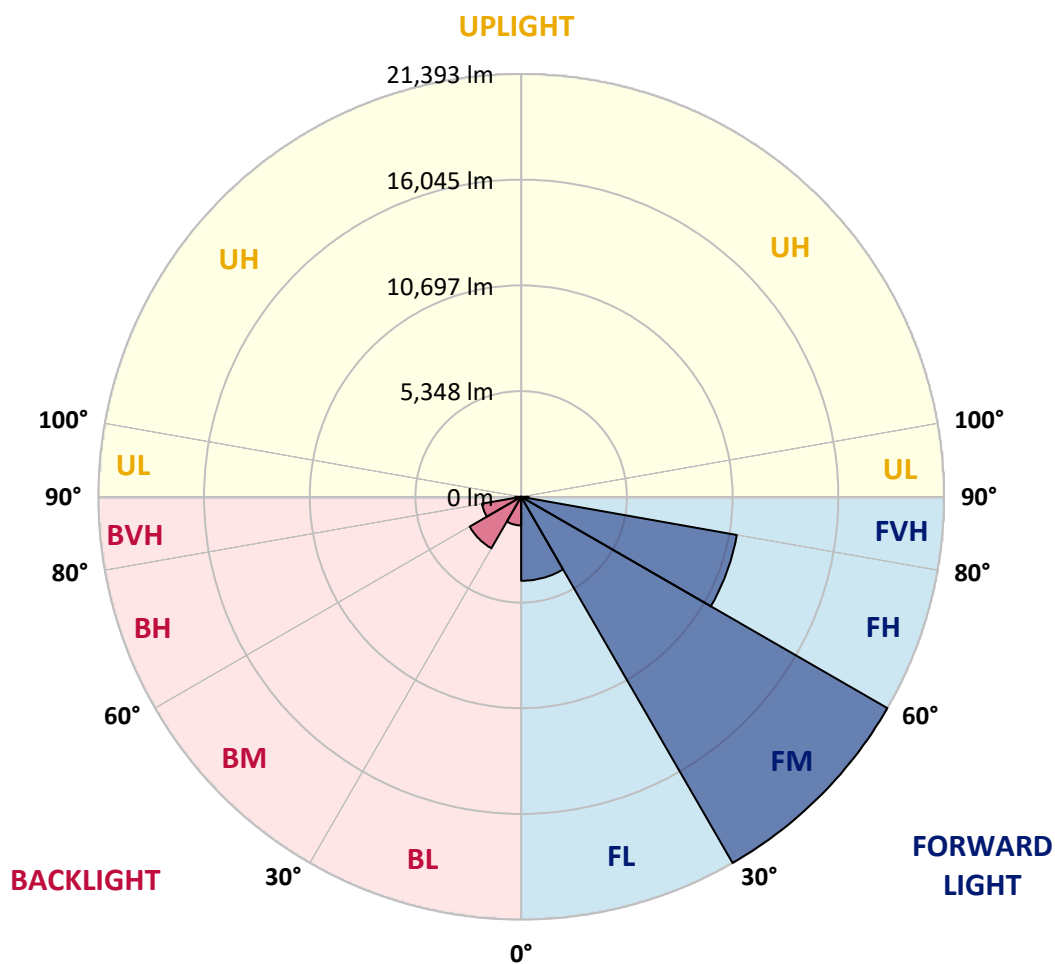
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 4248.0  | 9.7       |                         |      |          |
| FM   | (30°-60°)   | 21393.0 | 48.8      |                         |      |          |
| FH   | (60°-80°)   | 11079.6 | 25.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 379.7   | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1446.3  | 3.3       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3010.1  | 6.9       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2010.4  | 4.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 295.8   | 0.7       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  |
| 2.5°  | 4526.0  | 4476.1  | 4488.6  | 4405.5  | 4303.8  | 4170.9  | 4023.5  | 4021.5  | 4023.5  | 4009.0  | 3955.0  |
| 5°    | 6276.1  | 6215.9  | 6193.1  | 6006.2  | 5732.2  | 5341.9  | 4918.3  | 4872.7  | 4854.0  | 4806.2  | 4696.2  |
| 7.5°  | 7552.9  | 7519.7  | 7484.4  | 7343.3  | 7094.1  | 6658.1  | 6089.3  | 5991.7  | 5898.3  | 5875.4  | 5750.9  |
| 10°   | 8377.2  | 8368.9  | 8294.1  | 8256.8  | 8101.0  | 7723.2  | 7168.9  | 7075.4  | 6973.7  | 6938.4  | 6807.6  |
| 12.5° | 9029.1  | 9027.0  | 8991.7  | 9002.1  | 8867.1  | 8593.1  | 8115.6  | 8030.5  | 7955.7  | 7847.8  | 7754.3  |
| 15°   | 9479.6  | 9481.7  | 9533.6  | 9591.7  | 9570.9  | 9386.2  | 8937.7  | 8900.4  | 8836.0  | 8761.3  | 8651.2  |
| 17.5° | 9849.1  | 9859.5  | 9913.5  | 10019.4 | 10133.6 | 10119.0 | 9764.0  | 9732.9  | 9676.8  | 9575.1  | 9517.0  |
| 20°   | 10683.7 | 10723.2 | 10619.4 | 10619.4 | 10631.8 | 10687.9 | 10517.7 | 10492.7 | 10413.8 | 10359.9 | 10314.2 |
| 22.5° | 12093.4 | 12139.1 | 11904.5 | 11665.8 | 11431.1 | 11260.9 | 11090.7 | 11121.8 | 11067.8 | 11030.5 | 11003.5 |
| 25°   | 13924.6 | 13959.9 | 13579.9 | 13177.2 | 12699.7 | 12076.8 | 11655.4 | 11636.7 | 11607.6 | 11584.8 | 11572.3 |
| 27.5° | 15647.8 | 15662.3 | 15303.1 | 14713.5 | 14159.2 | 13264.4 | 12228.4 | 12205.5 | 12170.2 | 12126.7 | 12089.3 |
| 30°   | 17121.8 | 17117.7 | 16748.1 | 16185.5 | 15591.7 | 14601.4 | 13098.3 | 13027.7 | 12923.9 | 12805.5 | 12714.2 |
| 32.5° | 18398.6 | 18392.4 | 17987.6 | 17404.2 | 16781.3 | 15926.0 | 14290.0 | 14144.6 | 13982.7 | 13752.3 | 13613.2 |
| 35°   | 19403.5 | 19399.3 | 19017.3 | 18409.0 | 17694.8 | 17173.7 | 15656.1 | 15477.5 | 15272.0 | 14962.6 | 14748.8 |
| 37.5° | 19783.4 | 19783.4 | 19569.6 | 19154.3 | 18523.2 | 18166.1 | 17173.7 | 16957.8 | 16737.7 | 16386.9 | 16146.0 |
| 40°   | 19561.3 | 19565.4 | 19611.1 | 19534.3 | 19227.0 | 18953.0 | 18589.6 | 18460.9 | 18272.0 | 17956.4 | 17705.2 |
| 42.5° | 18815.9 | 18838.8 | 19141.9 | 19513.5 | 19667.1 | 19623.5 | 19845.7 | 19787.6 | 19654.7 | 19411.8 | 19212.5 |
| 45°   | 17871.3 | 17941.9 | 18274.1 | 18975.8 | 19789.6 | 20202.8 | 20898.3 | 20904.5 | 20879.6 | 20748.8 | 20595.2 |
| 47.5° | 16573.7 | 16673.4 | 17111.4 | 18060.2 | 19503.1 | 20765.4 | 21967.5 | 22023.5 | 22075.4 | 21990.3 | 21919.7 |
| 50°   | 14850.5 | 14968.9 | 15624.9 | 16883.1 | 18919.7 | 21348.8 | 23987.6 | 24240.8 | 24477.5 | 24448.5 | 24496.2 |
| 52.5° | 13004.9 | 13144.0 | 13947.4 | 15348.8 | 17917.0 | 21483.7 | 25278.9 | 25692.1 | 26105.2 | 26443.6 | 26802.8 |
| 55°   | 11339.8 | 11265.1 | 12068.5 | 13544.6 | 16268.5 | 20875.4 | 26439.5 | 26937.7 | 27398.6 | 27813.9 | 28241.5 |
| 57.5° | 9083.0  | 9205.5  | 10011.1 | 11470.6 | 14086.5 | 19158.5 | 27238.8 | 27967.5 | 28629.8 | 29317.0 | 29923.2 |
| 60°   | 6639.4  | 6761.9  | 7636.0  | 9118.3  | 11717.7 | 16555.0 | 26628.4 | 27732.9 | 28793.8 | 29846.4 | 30668.5 |
| 62.5° | 4009.0  | 4100.3  | 4870.6  | 6282.4  | 9035.3  | 13467.8 | 23908.7 | 25357.8 | 26919.0 | 28177.2 | 29437.4 |
| 65°   | 2495.5  | 2547.4  | 2831.8  | 3608.3  | 5802.8  | 10054.7 | 19534.3 | 21114.2 | 22795.9 | 24392.4 | 25702.4 |
| 67.5° | 2042.9  | 2061.6  | 2113.5  | 2279.6  | 3186.9  | 6556.4  | 14539.1 | 15938.4 | 17456.1 | 19000.7 | 20458.1 |
| 70°   | 1837.4  | 1824.9  | 1824.9  | 1835.3  | 2042.9  | 3525.3  | 9519.0  | 10430.5 | 11694.8 | 13038.1 | 14370.9 |
| 72.5° | 1658.8  | 1646.4  | 1623.5  | 1592.4  | 1667.1  | 2150.9  | 4920.4  | 5607.6  | 6519.0  | 7712.8  | 8989.6  |
| 75°   | 1490.7  | 1474.0  | 1447.1  | 1407.6  | 1459.5  | 1623.5  | 2362.6  | 2651.2  | 3095.5  | 3730.8  | 4442.9  |
| 77.5° | 1316.3  | 1295.5  | 1270.6  | 1241.5  | 1308.0  | 1262.3  | 1384.8  | 1488.6  | 1658.8  | 1862.3  | 2130.1  |
| 80°   | 1119.0  | 1100.3  | 1092.0  | 1077.5  | 1156.4  | 961.2   | 977.9   | 1042.2  | 1141.9  | 1251.9  | 1376.5  |
| 82.5° | 876.1   | 876.1   | 909.3   | 915.6   | 1002.8  | 691.3   | 730.8   | 786.9   | 838.8   | 896.9   | 955.0   |
| 85°   | 577.2   | 581.3   | 693.4   | 737.0   | 791.0   | 465.1   | 548.1   | 566.8   | 608.3   | 641.5   | 666.4   |
| 87.5° | 180.6   | 195.2   | 423.5   | 469.2   | 454.7   | 263.7   | 336.3   | 344.6   | 373.7   | 396.5   | 417.3   |
| 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):**

|       | 60°     | 61°     | 62°     | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  |
| 2.5°  | 3955.0  | 3930.1  | 3907.3  | 3905.2  | 3888.6  | 3865.7  | 3874.1  | 3838.8  | 3840.8  | 3822.1  | 3801.4  |
| 5°    | 4650.5  | 4633.9  | 4550.9  | 4528.0  | 4465.7  | 4426.3  | 4420.1  | 4337.0  | 4326.6  | 4278.9  | 4227.0  |
| 7.5°  | 5651.2  | 5597.2  | 5481.0  | 5424.9  | 5319.0  | 5240.1  | 5202.8  | 5092.7  | 5038.8  | 4914.2  | 4858.1  |
| 10°   | 6699.7  | 6631.1  | 6487.9  | 6409.0  | 6307.3  | 6180.6  | 6112.1  | 5952.3  | 5890.0  | 5775.8  | 5638.8  |
| 12.5° | 7671.3  | 7602.8  | 7455.4  | 7395.2  | 7260.2  | 7125.3  | 7050.5  | 6869.9  | 6788.9  | 6606.2  | 6498.3  |
| 15°   | 8570.2  | 8501.7  | 8373.0  | 8310.7  | 8175.8  | 8065.7  | 7966.1  | 7787.5  | 7692.0  | 7521.8  | 7380.6  |
| 17.5° | 9442.2  | 9369.6  | 9257.4  | 9201.4  | 9070.6  | 8958.5  | 8850.5  | 8682.4  | 8584.8  | 8414.5  | 8287.9  |
| 20°   | 10251.9 | 10197.9 | 10117.0 | 10042.2 | 9911.4  | 9809.7  | 9681.0  | 9535.6  | 9394.5  | 9269.9  | 9149.5  |
| 22.5° | 10957.8 | 10937.0 | 10849.8 | 10816.6 | 10704.5 | 10617.3 | 10505.2 | 10361.9 | 10260.2 | 10102.4 | 9990.3  |
| 25°   | 11566.1 | 11559.9 | 11518.3 | 11508.0 | 11429.1 | 11346.0 | 11321.1 | 11202.8 | 11109.3 | 10970.2 | 10854.0 |
| 27.5° | 12089.3 | 12095.5 | 12085.1 | 12114.2 | 12093.4 | 12056.1 | 12058.1 | 12018.7 | 11964.7 | 11848.4 | 11746.7 |
| 30°   | 12670.6 | 12637.4 | 12656.1 | 12697.6 | 12710.0 | 12714.2 | 12782.7 | 12805.5 | 12801.4 | 12724.6 | 12674.7 |
| 32.5° | 13492.7 | 13413.8 | 13341.2 | 13335.0 | 13376.5 | 13393.1 | 13509.3 | 13569.6 | 13621.5 | 13640.1 | 13648.5 |
| 35°   | 14541.2 | 14383.4 | 14231.8 | 14150.9 | 14080.3 | 14099.0 | 14182.0 | 14279.6 | 14393.8 | 14472.7 | 14566.1 |
| 37.5° | 15861.6 | 15668.5 | 15400.7 | 15209.7 | 15161.9 | 15058.1 | 15112.1 | 15188.9 | 15301.0 | 15423.5 | 15585.5 |
| 40°   | 17462.3 | 17169.6 | 16868.5 | 16615.2 | 16478.2 | 16287.2 | 16285.1 | 16270.6 | 16339.1 | 16453.3 | 16681.7 |
| 42.5° | 19002.8 | 18743.3 | 18423.5 | 18157.8 | 17979.2 | 17723.9 | 17672.0 | 17537.0 | 17568.2 | 17667.8 | 17890.0 |
| 45°   | 20445.7 | 20231.8 | 20036.7 | 19729.4 | 19577.9 | 19301.7 | 19214.5 | 19054.7 | 18965.4 | 19011.1 | 19233.2 |
| 47.5° | 21842.9 | 21705.9 | 21502.4 | 21303.1 | 21186.9 | 20939.8 | 20827.7 | 20713.5 | 20599.3 | 20595.2 | 20827.7 |
| 50°   | 24566.8 | 24494.1 | 24253.3 | 24045.7 | 24101.7 | 23798.6 | 23817.3 | 23510.0 | 23649.1 | 23665.8 | 24153.6 |
| 52.5° | 27126.7 | 27379.9 | 27558.5 | 27776.5 | 27917.7 | 27944.7 | 28038.1 | 28177.2 | 28345.3 | 28677.5 | 29130.1 |
| 55°   | 28592.4 | 28910.1 | 29094.8 | 29260.9 | 29535.0 | 29593.1 | 29748.8 | 29933.6 | 30081.0 | 30454.7 | 30838.8 |
| 57.5° | 30334.3 | 30923.9 | 31210.4 | 31474.1 | 31843.6 | 31984.8 | 32244.3 | 32445.7 | 32636.7 | 33078.9 | 33544.0 |
| 60°   | 31407.6 | 32126.0 | 32709.4 | 33126.7 | 33589.6 | 33921.8 | 34314.2 | 34629.8 | 35078.2 | 35607.6 | 36301.1 |
| 62.5° | 30554.3 | 31609.0 | 32383.4 | 33099.7 | 33728.7 | 34364.0 | 34926.7 | 35516.3 | 36197.3 | 36998.6 | 38074.1 |
| 65°   | 27155.7 | 28229.1 | 29555.7 | 30299.0 | 31131.5 | 32111.4 | 32966.8 | 33921.8 | 34849.8 | 36016.6 | 37606.9 |
| 67.5° | 21861.6 | 23109.4 | 24600.0 | 25349.5 | 26306.6 | 27400.7 | 28359.9 | 29526.7 | 30610.4 | 32024.2 | 33990.3 |
| 70°   | 15757.8 | 17370.9 | 18624.9 | 19407.6 | 20524.6 | 21651.9 | 22577.9 | 23935.7 | 24832.5 | 26281.7 | 28314.2 |
| 72.5° | 9977.9  | 11250.5 | 12786.9 | 13773.0 | 14765.4 | 15907.3 | 16854.0 | 18024.9 | 18861.6 | 20182.0 | 22023.5 |
| 75°   | 5364.7  | 6303.1  | 7652.6  | 8588.9  | 9651.9  | 10627.7 | 11736.3 | 12521.1 | 13139.8 | 14184.1 | 15678.9 |
| 77.5° | 2514.2  | 3085.1  | 3768.2  | 4488.6  | 5209.0  | 5960.6  | 6691.4  | 7326.6  | 7592.4  | 8190.3  | 9072.7  |
| 80°   | 1526.0  | 1710.7  | 1910.0  | 2132.2  | 2433.2  | 2676.1  | 2997.9  | 3230.5  | 3247.1  | 3436.0  | 3705.9  |
| 82.5° | 1019.4  | 1087.9  | 1148.1  | 1204.2  | 1281.0  | 1341.2  | 1409.7  | 1490.7  | 1523.9  | 1567.5  | 1654.7  |
| 85°   | 695.5   | 728.7   | 741.2   | 776.5   | 768.2   | 788.9   | 815.9   | 842.9   | 857.4   | 855.4   | 894.8   |
| 87.5° | 427.7   | 444.3   | 452.6   | 460.9   | 454.7   | 446.4   | 458.8   | 473.4   | 477.5   | 465.1   | 469.2   |
| 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):**

|       | 71°     | 72°     | 73°     | 74°     | 75°     | 85°     | 90°     | 95°    | 105°   | 115°   | 125°   |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7 | 3564.7 | 3564.7 | 3564.7 |
| 2.5°  | 3805.5  | 3786.9  | 3768.2  | 3755.7  | 3751.6  | 3641.5  | 3593.8  | 3562.6 | 3496.2 | 3442.2 | 3398.6 |
| 5°    | 4197.9  | 4158.5  | 4127.3  | 4090.0  | 4069.2  | 3791.0  | 3689.3  | 3618.7 | 3502.4 | 3433.9 | 3371.6 |
| 7.5°  | 4829.1  | 4719.0  | 4654.7  | 4582.0  | 4519.7  | 4017.3  | 3849.1  | 3739.1 | 3577.2 | 3485.8 | 3415.2 |
| 10°   | 5545.3  | 5431.1  | 5329.4  | 5217.3  | 5119.7  | 4318.3  | 4073.4  | 3903.1 | 3689.3 | 3570.9 | 3477.5 |
| 12.5° | 6344.6  | 6232.5  | 6103.8  | 5960.6  | 5836.0  | 4700.3  | 4359.9  | 4117.0 | 3824.2 | 3666.4 | 3535.6 |
| 15°   | 7289.3  | 7092.0  | 6936.3  | 6770.2  | 6624.9  | 5157.1  | 4694.1  | 4357.8 | 3967.5 | 3753.6 | 3579.2 |
| 17.5° | 8167.5  | 7959.9  | 7748.1  | 7602.8  | 7434.6  | 5669.9  | 5030.5  | 4602.8 | 4085.8 | 3809.7 | 3587.5 |
| 20°   | 9024.9  | 8798.6  | 8615.9  | 8420.8  | 8244.3  | 6201.4  | 5389.6  | 4818.7 | 4162.6 | 3811.8 | 3535.6 |
| 22.5° | 9780.6  | 9639.5  | 9436.0  | 9224.2  | 9045.7  | 6732.9  | 5726.0  | 5001.4 | 4191.7 | 3764.0 | 3444.3 |
| 25°   | 10640.1 | 10490.7 | 10241.5 | 10063.0 | 9863.7  | 7274.7  | 6056.1  | 5142.6 | 4175.1 | 3674.7 | 3303.1 |
| 27.5° | 11557.8 | 11391.7 | 11136.3 | 10949.5 | 10708.7 | 7837.4  | 6359.2  | 5244.3 | 4112.8 | 3529.4 | 3114.2 |
| 30°   | 12514.9 | 12363.3 | 12112.1 | 11923.2 | 11680.3 | 8433.2  | 6697.6  | 5312.8 | 3988.2 | 3328.0 | 2894.1 |
| 32.5° | 13542.6 | 13415.9 | 13166.8 | 12969.6 | 12710.0 | 9078.9  | 7013.2  | 5333.6 | 3799.3 | 3089.3 | 2661.6 |
| 35°   | 14518.3 | 14431.1 | 14221.5 | 14036.7 | 13766.8 | 9689.3  | 7347.4  | 5323.2 | 3575.1 | 2827.7 | 2449.8 |
| 37.5° | 15616.6 | 15564.7 | 15460.9 | 15226.3 | 14896.2 | 10517.7 | 7748.1  | 5279.6 | 3301.0 | 2568.2 | 2287.9 |
| 40°   | 16787.6 | 16791.7 | 16679.6 | 16519.7 | 16212.5 | 11522.5 | 8225.6  | 5194.5 | 3002.1 | 2339.8 | 2140.5 |
| 42.5° | 18027.0 | 18091.4 | 18037.4 | 17923.2 | 17628.4 | 12535.6 | 8796.5  | 5090.7 | 2711.4 | 2117.6 | 1995.2 |
| 45°   | 19447.1 | 19526.0 | 19609.0 | 19440.8 | 19154.3 | 13872.7 | 9548.1  | 4955.7 | 2397.9 | 1932.9 | 1895.5 |
| 47.5° | 21085.1 | 21209.7 | 21284.4 | 21286.5 | 21000.0 | 15529.4 | 10768.9 | 4874.7 | 2119.7 | 1808.3 | 1847.8 |
| 50°   | 24541.9 | 24581.3 | 24757.8 | 25065.1 | 24845.0 | 19364.0 | 12901.0 | 4824.9 | 1930.8 | 1731.5 | 1812.5 |
| 52.5° | 29522.5 | 29956.4 | 30261.6 | 30240.8 | 29941.9 | 21799.3 | 14076.1 | 4567.5 | 1818.7 | 1702.4 | 1795.8 |
| 55°   | 31550.9 | 32092.8 | 32657.5 | 32806.9 | 32574.4 | 23877.5 | 15186.9 | 4310.0 | 1764.7 | 1723.2 | 1802.1 |
| 57.5° | 34254.0 | 35167.5 | 35941.9 | 36267.8 | 35931.5 | 26537.0 | 16648.5 | 4175.1 | 1748.1 | 1779.2 | 1841.5 |
| 60°   | 37411.8 | 38541.2 | 39558.5 | 40144.0 | 40144.0 | 29593.1 | 18164.0 | 4119.0 | 1725.3 | 1862.3 | 1908.0 |
| 62.5° | 39440.2 | 41099.0 | 42635.3 | 43492.8 | 43467.8 | 31721.1 | 18836.7 | 3928.0 | 1673.4 | 1920.4 | 1999.3 |
| 65°   | 39448.5 | 41420.8 | 43378.6 | 44341.9 | 44391.7 | 31459.5 | 17726.0 | 3469.2 | 1577.9 | 1928.7 | 2090.7 |
| 67.5° | 36159.9 | 38263.0 | 40544.7 | 41622.2 | 41871.3 | 28959.9 | 15344.6 | 2852.6 | 1422.1 | 1845.7 | 2123.9 |
| 70°   | 30539.8 | 32593.1 | 34922.5 | 35981.3 | 36423.5 | 24687.2 | 12359.2 | 2198.6 | 1222.8 | 1663.0 | 2055.4 |
| 72.5° | 24060.2 | 26074.1 | 27695.5 | 28469.9 | 28814.5 | 18869.9 | 9000.0  | 1660.9 | 1002.8 | 1401.4 | 1870.6 |
| 75°   | 17034.6 | 18546.0 | 19407.6 | 19579.9 | 19633.9 | 11375.1 | 5468.5  | 1235.3 | 826.3  | 1090.0 | 1579.9 |
| 77.5° | 9614.5  | 10262.3 | 10191.7 | 10268.5 | 9629.1  | 4391.0  | 2381.3  | 884.4  | 681.0  | 828.4  | 1224.9 |
| 80°   | 3753.6  | 3869.9  | 3635.3  | 3562.6  | 3267.8  | 1633.9  | 1050.5  | 616.6  | 543.9  | 627.0  | 857.4  |
| 82.5° | 1654.7  | 1708.7  | 1658.8  | 1671.3  | 1598.6  | 842.9   | 629.1   | 446.4  | 415.2  | 458.8  | 568.9  |
| 85°   | 911.4   | 928.0   | 923.9   | 950.9   | 911.4   | 336.3   | 299.0   | 274.0  | 290.7  | 311.4  | 365.4  |
| 87.5° | 444.3   | 448.4   | 433.9   | 456.7   | 442.2   | 170.2   | 147.4   | 155.7  | 170.2  | 174.4  | 174.4  |
| 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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| 40°   | 2194.5 | 2252.6 | 2088.6 | 2034.6 | 2038.8 | 2034.6 |
| 42.5° | 2090.7 | 2150.9 | 2092.7 | 2067.8 | 2084.4 | 2088.6 |
| 45°   | 1986.9 | 2053.3 | 2123.9 | 2107.3 | 2146.7 | 2146.7 |
| 47.5° | 1928.7 | 2028.4 | 2121.8 | 2121.8 | 2179.9 | 2200.7 |
| 50°   | 1862.3 | 2007.6 | 2088.6 | 2117.6 | 2163.3 | 2146.7 |
| 52.5° | 1858.1 | 1972.3 | 2040.8 | 2092.7 | 2113.5 | 2094.8 |
| 55°   | 1864.4 | 1943.3 | 1993.1 | 2051.2 | 2076.1 | 2078.2 |
| 57.5° | 1872.7 | 1926.6 | 1959.9 | 1986.9 | 2061.6 | 2061.6 |
| 60°   | 1893.4 | 1912.1 | 1930.8 | 1945.3 | 2042.9 | 2045.0 |
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| 77.5° | 1816.6 | 1675.4 | 1359.9 | 1216.6 | 1191.7 | 1200.0 |
| 80°   | 1519.7 | 1590.3 | 1200.0 | 1029.8 | 1164.7 | 1150.2 |
| 82.5° | 1135.6 | 1403.5 | 1019.4 | 911.4  | 909.3  | 803.5  |
| 85°   | 631.1  | 1094.1 | 830.5  | 683.0  | 475.4  | 460.9  |
| 87.5° | 176.5  | 608.3  | 581.3  | 386.2  | 263.7  | 274.0  |
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