

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: P194752

Luminaire Tested: **GLEON-AF-04-LED-E1-T2R-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194752  
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-04-LED-E1-T2R-7060  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 25015 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 225  
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



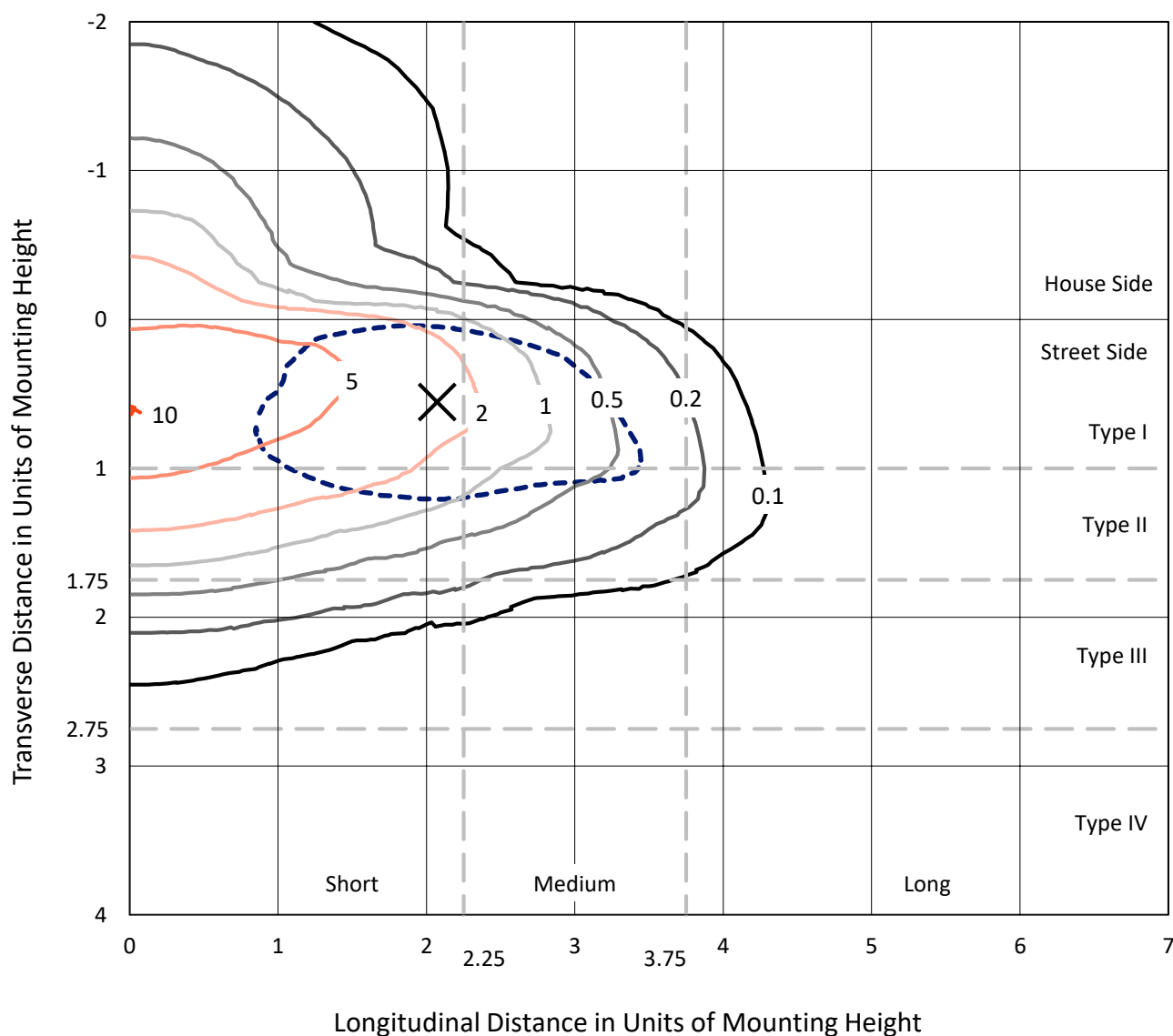
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

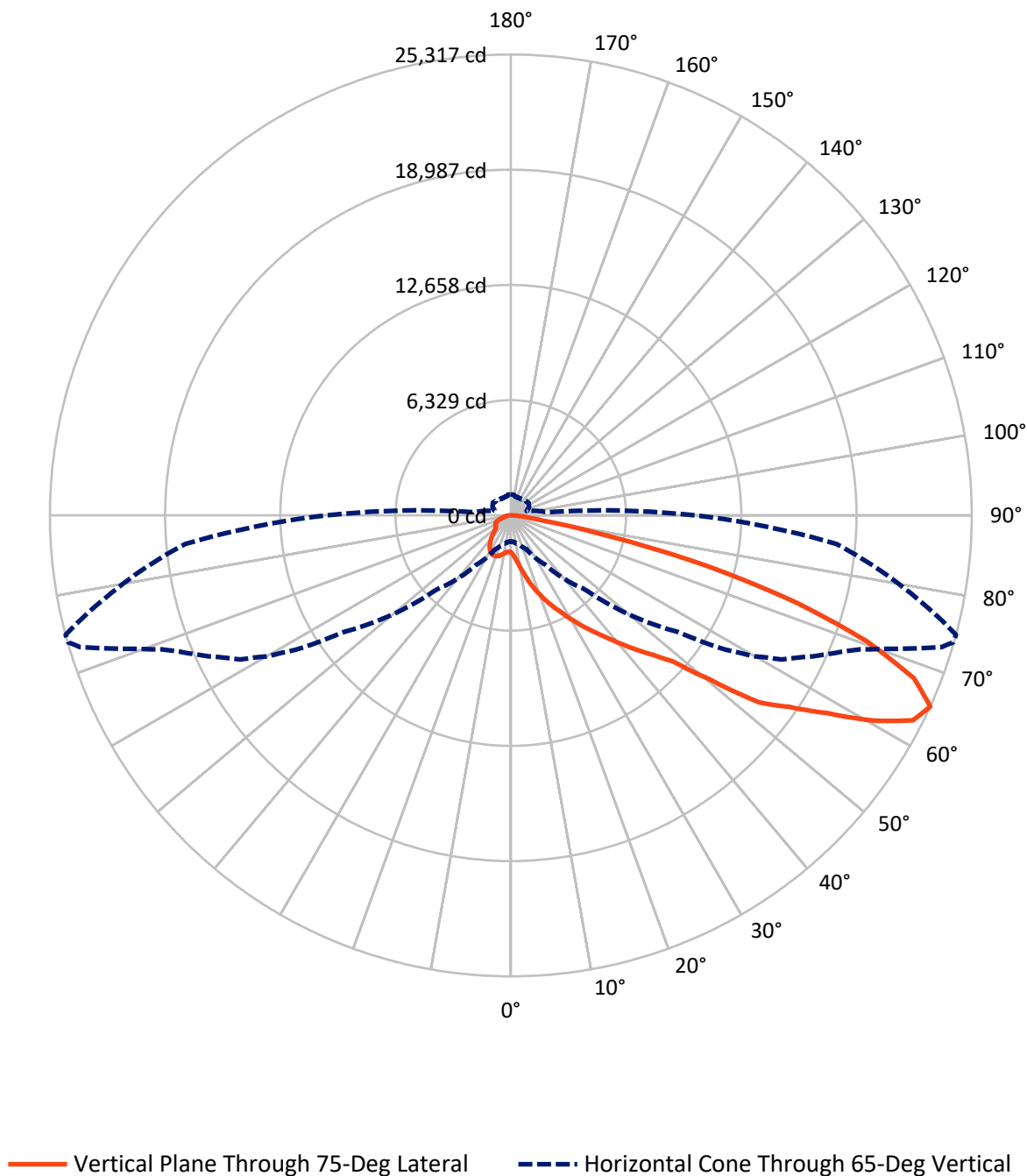


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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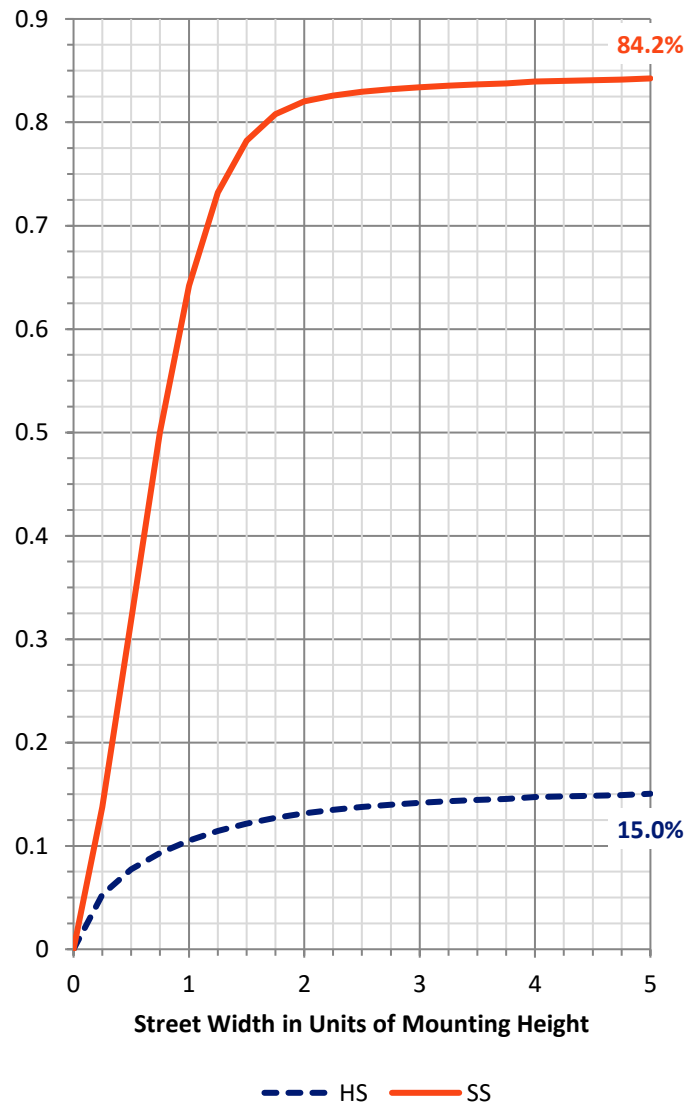
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3856.7   | 0.0    | 3856.7  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 21158.3  | 0.0    | 21158.3 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 25015.0  | 0.0    | 25015.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 251.3   | 1.0       |
| 10°-20°   | 981.8   | 3.9       |
| 20°-30°   | 2014.3  | 8.1       |
| 30°-40°   | 3389.0  | 13.5      |
| 40°-50°   | 4682.7  | 18.7      |
| 50°-60°   | 5845.4  | 23.4      |
| 60°-70°   | 5260.2  | 21.0      |
| 70°-80°   | 2205.0  | 8.8       |
| 80°-90°   | 385.2   | 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°    | 25015.0 | 100.0     |
| 0°-180°   | 25015.0 | 100.0     |

**Coefficient of Utilization**



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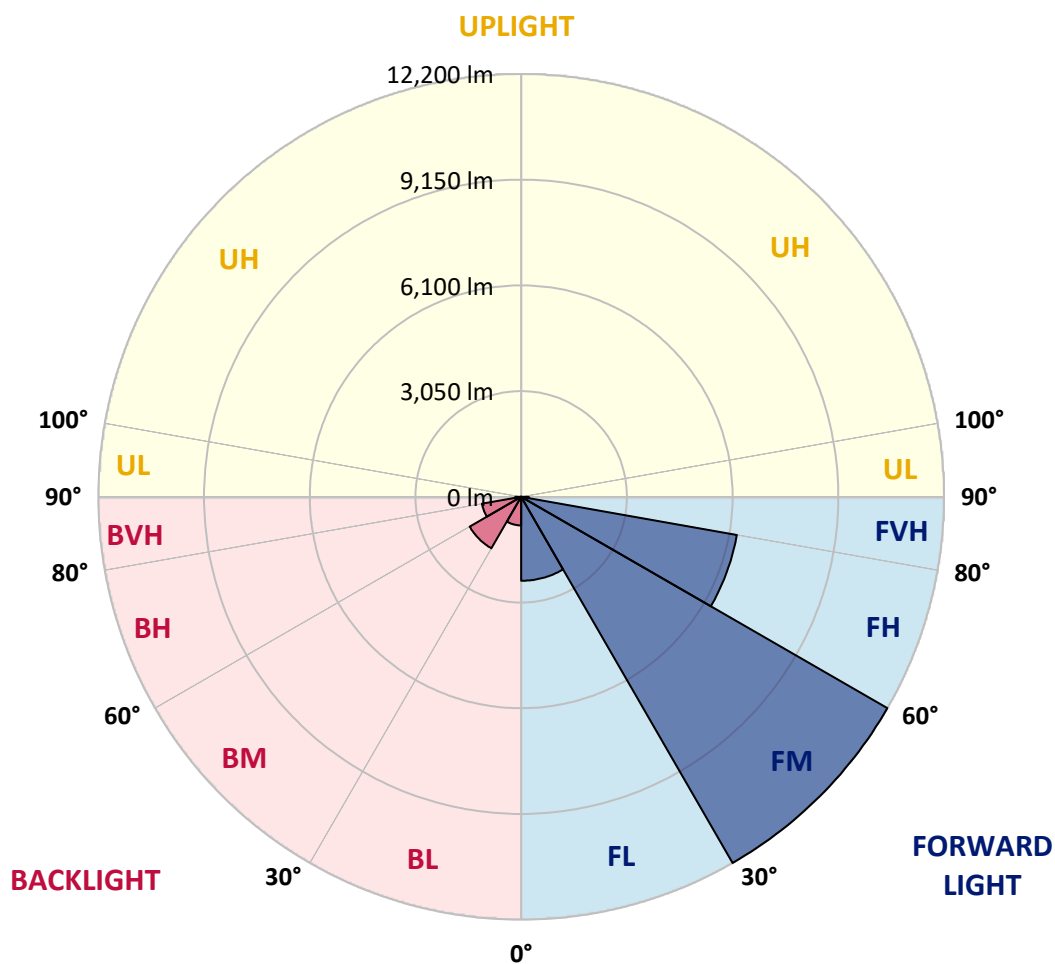
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2422.6  | 9.7       |                         |      |         |
| FM   | (30°-60°)   | 12200.4 | 48.8      |                         |      |         |
| FH   | (60°-80°)   | 6318.7  | 25.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 216.5   | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 824.8   | 3.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1716.7  | 6.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1146.6  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 168.7   | 0.7       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  |
| 2.5°  | 2581.1  | 2552.7  | 2559.8  | 2512.5  | 2454.5  | 2378.7  | 2294.6  | 2293.4  | 2294.6  | 2286.3  | 2255.5  |
| 5°    | 3579.3  | 3544.9  | 3531.9  | 3425.3  | 3269.1  | 3046.5  | 2804.9  | 2778.9  | 2768.2  | 2741.0  | 2678.2  |
| 7.5°  | 4307.4  | 4288.5  | 4268.4  | 4187.8  | 4045.8  | 3797.1  | 3472.7  | 3417.1  | 3363.8  | 3350.8  | 3279.7  |
| 10°   | 4777.5  | 4772.7  | 4730.1  | 4708.8  | 4620.0  | 4404.5  | 4088.4  | 4035.1  | 3977.1  | 3957.0  | 3882.4  |
| 12.5° | 5149.3  | 5148.1  | 5128.0  | 5133.9  | 5056.9  | 4900.6  | 4628.3  | 4579.8  | 4537.1  | 4475.6  | 4422.3  |
| 15°   | 5406.2  | 5407.4  | 5437.0  | 5470.1  | 5458.3  | 5352.9  | 5097.2  | 5075.9  | 5039.2  | 4996.5  | 4933.8  |
| 17.5° | 5616.9  | 5622.9  | 5653.7  | 5714.0  | 5779.2  | 5770.9  | 5568.4  | 5550.6  | 5518.7  | 5460.7  | 5427.5  |
| 20°   | 6092.9  | 6115.4  | 6056.2  | 6056.2  | 6063.3  | 6095.3  | 5998.2  | 5984.0  | 5939.0  | 5908.2  | 5882.2  |
| 22.5° | 6896.9  | 6922.9  | 6789.1  | 6653.0  | 6519.2  | 6422.1  | 6325.0  | 6342.7  | 6312.0  | 6290.7  | 6275.3  |
| 25°   | 7941.2  | 7961.3  | 7744.6  | 7514.9  | 7242.6  | 6887.4  | 6647.0  | 6636.4  | 6619.8  | 6606.8  | 6599.7  |
| 27.5° | 8923.9  | 8932.2  | 8727.3  | 8391.1  | 8075.0  | 7564.6  | 6973.8  | 6960.8  | 6940.7  | 6915.8  | 6894.5  |
| 30°   | 9764.5  | 9762.2  | 9551.4  | 9230.6  | 8891.9  | 8327.2  | 7469.9  | 7429.7  | 7370.5  | 7303.0  | 7250.9  |
| 32.5° | 10492.7 | 10489.2 | 10258.3 | 9925.6  | 9570.4  | 9082.5  | 8149.5  | 8066.7  | 7974.3  | 7842.9  | 7763.6  |
| 35°   | 11065.8 | 11063.4 | 10845.5 | 10498.6 | 10091.3 | 9794.1  | 8928.6  | 8826.8  | 8709.6  | 8533.2  | 8411.2  |
| 37.5° | 11282.4 | 11282.4 | 11160.5 | 10923.7 | 10563.7 | 10360.1 | 9794.1  | 9671.0  | 9545.5  | 9345.4  | 9208.1  |
| 40°   | 11155.8 | 11158.1 | 11184.2 | 11140.4 | 10965.1 | 10808.8 | 10601.6 | 10528.2 | 10420.5 | 10240.5 | 10097.2 |
| 42.5° | 10730.7 | 10743.7 | 10916.6 | 11128.5 | 11216.1 | 11191.3 | 11318.0 | 11284.8 | 11209.0 | 11070.5 | 10956.8 |
| 45°   | 10192.0 | 10232.2 | 10421.7 | 10821.9 | 11286.0 | 11521.6 | 11918.3 | 11921.8 | 11907.6 | 11833.0 | 11745.4 |
| 47.5° | 9452.0  | 9508.8  | 9758.6  | 10299.7 | 11122.6 | 11842.5 | 12528.0 | 12560.0 | 12589.6 | 12541.0 | 12500.8 |
| 50°   | 8469.2  | 8536.7  | 8910.9  | 9628.4  | 10789.9 | 12175.2 | 13680.1 | 13824.5 | 13959.5 | 13942.9 | 13970.1 |
| 52.5° | 7416.6  | 7496.0  | 7954.2  | 8753.4  | 10218.0 | 12252.1 | 14416.5 | 14652.1 | 14887.8 | 15080.8 | 15285.6 |
| 55°   | 6467.1  | 6424.4  | 6882.7  | 7724.5  | 9277.9  | 11905.2 | 15078.4 | 15362.5 | 15625.4 | 15862.2 | 16106.1 |
| 57.5° | 5180.0  | 5249.9  | 5709.3  | 6541.7  | 8033.5  | 10926.1 | 15534.2 | 15949.8 | 16327.5 | 16719.4 | 17065.2 |
| 60°   | 3786.5  | 3856.3  | 4354.8  | 5200.2  | 6682.6  | 9441.3  | 15186.1 | 15816.0 | 16421.1 | 17021.3 | 17490.2 |
| 62.5° | 2286.3  | 2338.4  | 2777.7  | 3582.8  | 5152.8  | 7680.7  | 13635.1 | 14461.5 | 15351.9 | 16069.4 | 16788.1 |
| 65°   | 1423.2  | 1452.8  | 1615.0  | 2057.8  | 3309.3  | 5734.2  | 11140.4 | 12041.4 | 13000.4 | 13910.9 | 14658.1 |
| 67.5° | 1165.1  | 1175.7  | 1205.3  | 1300.0  | 1817.5  | 3739.1  | 8291.6  | 9089.7  | 9955.2  | 10836.1 | 11667.2 |
| 70°   | 1047.8  | 1040.7  | 1040.7  | 1046.7  | 1165.1  | 2010.5  | 5428.7  | 5948.5  | 6669.5  | 7435.6  | 8195.7  |
| 72.5° | 946.0   | 938.9   | 925.9   | 908.1   | 950.8   | 1226.6  | 2806.1  | 3198.0  | 3717.8  | 4398.6  | 5126.8  |
| 75°   | 850.1   | 840.6   | 825.3   | 802.8   | 832.4   | 925.9   | 1347.4  | 1512.0  | 1765.4  | 2127.7  | 2533.8  |
| 77.5° | 750.7   | 738.8   | 724.6   | 708.0   | 745.9   | 719.9   | 789.7   | 848.9   | 946.0   | 1062.1  | 1214.8  |
| 80°   | 638.2   | 627.5   | 622.8   | 614.5   | 659.5   | 548.2   | 557.7   | 594.4   | 651.2   | 714.0   | 785.0   |
| 82.5° | 499.7   | 499.7   | 518.6   | 522.1   | 571.9   | 394.3   | 416.8   | 448.7   | 478.3   | 511.5   | 544.6   |
| 85°   | 329.2   | 331.5   | 395.5   | 420.3   | 451.1   | 265.2   | 312.6   | 323.2   | 346.9   | 365.9   | 380.1   |
| 87.5° | 103.0   | 111.3   | 241.5   | 267.6   | 259.3   | 150.4   | 191.8   | 196.5   | 213.1   | 226.1   | 238.0   |
| 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):**

|       | 60°     | 61°     | 62°     | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  |
| 2.5°  | 2255.5  | 2241.3  | 2228.3  | 2227.1  | 2217.7  | 2204.6  | 2209.4  | 2189.2  | 2190.4  | 2179.8  | 2167.9  |
| 5°    | 2652.2  | 2642.7  | 2595.4  | 2582.3  | 2546.8  | 2524.3  | 2520.8  | 2473.4  | 2467.5  | 2440.2  | 2410.6  |
| 7.5°  | 3222.9  | 3192.1  | 3125.8  | 3093.8  | 3033.4  | 2988.4  | 2967.1  | 2904.4  | 2873.6  | 2802.6  | 2770.6  |
| 10°   | 3820.8  | 3781.7  | 3700.0  | 3655.0  | 3597.0  | 3524.8  | 3485.7  | 3394.6  | 3359.0  | 3293.9  | 3215.8  |
| 12.5° | 4374.9  | 4335.8  | 4251.8  | 4217.4  | 4140.5  | 4063.5  | 4020.9  | 3917.9  | 3871.7  | 3767.5  | 3706.0  |
| 15°   | 4887.6  | 4848.5  | 4775.1  | 4739.6  | 4662.6  | 4599.9  | 4543.1  | 4441.2  | 4386.8  | 4289.7  | 4209.2  |
| 17.5° | 5384.9  | 5343.4  | 5279.5  | 5247.5  | 5172.9  | 5109.0  | 5047.4  | 4951.5  | 4895.9  | 4798.8  | 4726.6  |
| 20°   | 5846.6  | 5815.9  | 5769.7  | 5727.1  | 5652.5  | 5594.5  | 5521.0  | 5438.2  | 5357.7  | 5286.6  | 5217.9  |
| 22.5° | 6249.2  | 6237.4  | 6187.6  | 6168.7  | 6104.8  | 6055.0  | 5991.1  | 5909.4  | 5851.4  | 5761.4  | 5697.5  |
| 25°   | 6596.1  | 6592.6  | 6568.9  | 6563.0  | 6518.0  | 6470.6  | 6456.4  | 6388.9  | 6335.6  | 6256.3  | 6190.0  |
| 27.5° | 6894.5  | 6898.0  | 6892.1  | 6908.7  | 6896.9  | 6875.6  | 6876.7  | 6854.2  | 6823.5  | 6757.2  | 6699.1  |
| 30°   | 7226.0  | 7207.1  | 7217.7  | 7241.4  | 7248.5  | 7250.9  | 7290.0  | 7303.0  | 7300.6  | 7256.8  | 7228.4  |
| 32.5° | 7694.9  | 7649.9  | 7608.5  | 7604.9  | 7628.6  | 7638.1  | 7704.4  | 7738.7  | 7768.3  | 7779.0  | 7783.7  |
| 35°   | 8292.8  | 8202.8  | 8116.4  | 8070.2  | 8030.0  | 8040.6  | 8088.0  | 8143.6  | 8208.7  | 8253.7  | 8307.0  |
| 37.5° | 9045.8  | 8935.7  | 8783.0  | 8674.1  | 8646.8  | 8587.6  | 8618.4  | 8662.2  | 8726.2  | 8796.0  | 8888.4  |
| 40°   | 9958.7  | 9791.8  | 9620.1  | 9475.6  | 9397.5  | 9288.6  | 9287.4  | 9279.1  | 9318.2  | 9383.3  | 9513.5  |
| 42.5° | 10837.3 | 10689.3 | 10506.9 | 10355.4 | 10253.5 | 10107.9 | 10078.3 | 10001.3 | 10019.1 | 10075.9 | 10202.6 |
| 45°   | 11660.1 | 11538.2 | 11426.9 | 11251.7 | 11165.2 | 11007.8 | 10958.0 | 10866.9 | 10815.9 | 10842.0 | 10968.7 |
| 47.5° | 12457.0 | 12378.8 | 12262.8 | 12149.1 | 12082.8 | 11941.9 | 11878.0 | 11812.9 | 11747.8 | 11745.4 | 11878.0 |
| 50°   | 14010.4 | 13969.0 | 13831.6 | 13713.2 | 13745.2 | 13572.3 | 13583.0 | 13407.7 | 13487.1 | 13496.5 | 13774.8 |
| 52.5° | 15470.3 | 15614.7 | 15716.6 | 15840.9 | 15921.4 | 15936.8 | 15990.1 | 16069.4 | 16165.3 | 16354.7 | 16612.9 |
| 55°   | 16306.2 | 16487.4 | 16592.7 | 16687.5 | 16843.7 | 16876.9 | 16965.7 | 17071.1 | 17155.1 | 17368.3 | 17587.3 |
| 57.5° | 17299.6 | 17635.8 | 17799.2 | 17949.6 | 18160.4 | 18240.9 | 18388.9 | 18503.7 | 18612.7 | 18864.9 | 19130.1 |
| 60°   | 17911.7 | 18321.4 | 18654.1 | 18892.1 | 19156.1 | 19345.6 | 19569.3 | 19749.3 | 20005.1 | 20307.0 | 20702.4 |
| 62.5° | 17425.1 | 18026.6 | 18468.2 | 18876.7 | 19235.4 | 19597.8 | 19918.6 | 20254.9 | 20643.2 | 21100.3 | 21713.6 |
| 65°   | 15486.9 | 16099.0 | 16855.6 | 17279.5 | 17754.2 | 18313.1 | 18800.9 | 19345.6 | 19874.8 | 20540.2 | 21447.2 |
| 67.5° | 12467.6 | 13179.2 | 14029.3 | 14456.8 | 15002.6 | 15626.6 | 16173.6 | 16839.0 | 17457.1 | 18263.4 | 19384.6 |
| 70°   | 8986.6  | 9906.6  | 10621.8 | 11068.1 | 11705.1 | 12348.1 | 12876.1 | 13650.5 | 14162.0 | 14988.4 | 16147.5 |
| 72.5° | 5690.4  | 6416.2  | 7292.3  | 7854.7  | 8420.7  | 9071.9  | 9611.8  | 10279.6 | 10756.7 | 11509.8 | 12560.0 |
| 75°   | 3059.5  | 3594.7  | 4364.3  | 4898.3  | 5504.5  | 6061.0  | 6693.2  | 7140.8  | 7493.6  | 8089.2  | 8941.7  |
| 77.5° | 1433.8  | 1759.4  | 2149.0  | 2559.8  | 2970.7  | 3399.3  | 3816.1  | 4178.4  | 4329.9  | 4670.9  | 5174.1  |
| 80°   | 870.2   | 975.6   | 1089.3  | 1216.0  | 1387.7  | 1526.2  | 1709.7  | 1842.3  | 1851.8  | 1959.5  | 2113.5  |
| 82.5° | 581.3   | 620.4   | 654.8   | 686.7   | 730.5   | 764.9   | 803.9   | 850.1   | 869.1   | 893.9   | 943.7   |
| 85°   | 396.6   | 415.6   | 422.7   | 442.8   | 438.1   | 449.9   | 465.3   | 480.7   | 489.0   | 487.8   | 510.3   |
| 87.5° | 243.9   | 253.4   | 258.1   | 262.9   | 259.3   | 254.6   | 261.7   | 270.0   | 272.3   | 265.2   | 267.6   |
| 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):**

|       | 71°     | 72°     | 73°     | 74°     | 75°     | 85°     | 90°     | 95°    | 105°   | 115°   | 125°   |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9  | 2032.9 | 2032.9 | 2032.9 | 2032.9 |
| 2.5°  | 2170.3  | 2159.6  | 2149.0  | 2141.9  | 2139.5  | 2076.8  | 2049.5  | 2031.8 | 1993.9 | 1963.1 | 1938.2 |
| 5°    | 2394.1  | 2371.6  | 2353.8  | 2332.5  | 2320.7  | 2162.0  | 2104.0  | 2063.7 | 1997.4 | 1958.4 | 1922.8 |
| 7.5°  | 2754.0  | 2691.3  | 2654.6  | 2613.1  | 2577.6  | 2291.1  | 2195.2  | 2132.4 | 2040.1 | 1988.0 | 1947.7 |
| 10°   | 3162.5  | 3097.4  | 3039.4  | 2975.4  | 2919.8  | 2462.7  | 2323.0  | 2225.9 | 2104.0 | 2036.5 | 1983.2 |
| 12.5° | 3618.3  | 3554.4  | 3481.0  | 3399.3  | 3328.3  | 2680.6  | 2486.4  | 2347.9 | 2180.9 | 2091.0 | 2016.4 |
| 15°   | 4157.1  | 4044.6  | 3955.8  | 3861.1  | 3778.2  | 2941.1  | 2677.0  | 2485.2 | 2262.6 | 2140.7 | 2041.2 |
| 17.5° | 4657.9  | 4539.5  | 4418.7  | 4335.8  | 4239.9  | 3233.5  | 2868.9  | 2625.0 | 2330.1 | 2172.7 | 2046.0 |
| 20°   | 5146.9  | 5017.8  | 4913.6  | 4802.3  | 4701.7  | 3536.6  | 3073.7  | 2748.1 | 2373.9 | 2173.8 | 2016.4 |
| 22.5° | 5577.9  | 5497.4  | 5381.3  | 5260.6  | 5158.7  | 3839.7  | 3265.5  | 2852.3 | 2390.5 | 2146.6 | 1964.3 |
| 25°   | 6068.1  | 5982.8  | 5840.7  | 5738.9  | 5625.2  | 4148.8  | 3453.8  | 2932.8 | 2381.0 | 2095.7 | 1883.8 |
| 27.5° | 6591.4  | 6496.7  | 6351.0  | 6244.5  | 6107.1  | 4469.6  | 3626.6  | 2990.8 | 2345.5 | 2012.8 | 1776.0 |
| 30°   | 7137.2  | 7050.8  | 6907.5  | 6799.8  | 6661.2  | 4809.5  | 3819.6  | 3029.9 | 2274.5 | 1898.0 | 1650.5 |
| 32.5° | 7723.3  | 7651.1  | 7509.0  | 7396.5  | 7248.5  | 5177.7  | 3999.6  | 3041.7 | 2166.7 | 1761.8 | 1517.9 |
| 35°   | 8279.8  | 8230.1  | 8110.5  | 8005.1  | 7851.2  | 5525.8  | 4190.2  | 3035.8 | 2038.9 | 1612.6 | 1397.1 |
| 37.5° | 8906.1  | 8876.5  | 8817.3  | 8683.5  | 8495.3  | 5998.2  | 4418.7  | 3010.9 | 1882.6 | 1464.6 | 1304.8 |
| 40°   | 9573.9  | 9576.3  | 9512.3  | 9421.2  | 9245.9  | 6571.3  | 4691.1  | 2962.4 | 1712.1 | 1334.4 | 1220.7 |
| 42.5° | 10280.8 | 10317.5 | 10286.7 | 10221.6 | 10053.4 | 7149.1  | 5016.7  | 2903.2 | 1546.3 | 1207.7 | 1137.8 |
| 45°   | 11090.6 | 11135.6 | 11183.0 | 11087.1 | 10923.7 | 7911.6  | 5445.3  | 2826.2 | 1367.5 | 1102.3 | 1081.0 |
| 47.5° | 12024.8 | 12095.9 | 12138.5 | 12139.7 | 11976.3 | 8856.4  | 6141.5  | 2780.1 | 1208.9 | 1031.3 | 1053.8 |
| 50°   | 13996.2 | 14018.7 | 14119.3 | 14294.6 | 14169.1 | 11043.3 | 7357.4  | 2751.6 | 1101.1 | 987.5  | 1033.6 |
| 52.5° | 16836.6 | 17084.1 | 17258.1 | 17246.3 | 17075.8 | 12432.1 | 8027.6  | 2604.8 | 1037.2 | 970.9  | 1024.2 |
| 55°   | 17993.4 | 18302.4 | 18624.5 | 18709.7 | 18577.1 | 13617.3 | 8661.0  | 2458.0 | 1006.4 | 982.7  | 1027.7 |
| 57.5° | 19535.0 | 20056.0 | 20497.6 | 20683.5 | 20491.7 | 15134.0 | 9494.6  | 2381.0 | 996.9  | 1014.7 | 1050.2 |
| 60°   | 21335.9 | 21980.0 | 22560.1 | 22894.0 | 22894.0 | 16876.9 | 10358.9 | 2349.1 | 983.9  | 1062.1 | 1088.1 |
| 62.5° | 22492.7 | 23438.7 | 24314.9 | 24803.9 | 24789.6 | 18090.5 | 10742.5 | 2240.1 | 954.3  | 1095.2 | 1140.2 |
| 65°   | 22497.4 | 23622.2 | 24738.7 | 25288.1 | 25316.5 | 17941.3 | 10109.1 | 1978.5 | 899.8  | 1099.9 | 1192.3 |
| 67.5° | 20621.9 | 21821.3 | 23122.6 | 23737.1 | 23879.1 | 16515.8 | 8751.0  | 1626.8 | 811.0  | 1052.6 | 1211.2 |
| 70°   | 17416.8 | 18587.8 | 19916.3 | 20520.1 | 20772.3 | 14079.1 | 7048.4  | 1253.9 | 697.4  | 948.4  | 1172.2 |
| 72.5° | 13721.5 | 14870.0 | 15794.7 | 16236.3 | 16432.9 | 10761.5 | 5132.7  | 947.2  | 571.9  | 799.2  | 1066.8 |
| 75°   | 9714.8  | 10576.8 | 11068.1 | 11166.4 | 11197.2 | 6487.2  | 3118.7  | 704.5  | 471.2  | 621.6  | 901.0  |
| 77.5° | 5483.2  | 5852.6  | 5812.3  | 5856.1  | 5491.4  | 2504.2  | 1358.1  | 504.4  | 388.4  | 472.4  | 698.6  |
| 80°   | 2140.7  | 2207.0  | 2073.2  | 2031.8  | 1863.6  | 931.8   | 599.1   | 351.7  | 310.2  | 357.6  | 489.0  |
| 82.5° | 943.7   | 974.4   | 946.0   | 953.1   | 911.7   | 480.7   | 358.8   | 254.6  | 236.8  | 261.7  | 324.4  |
| 85°   | 519.8   | 529.3   | 526.9   | 542.3   | 519.8   | 191.8   | 170.5   | 156.3  | 165.8  | 177.6  | 208.4  |
| 87.5° | 253.4   | 255.7   | 247.5   | 260.5   | 252.2   | 97.1    | 84.1    | 88.8   | 97.1   | 99.5   | 99.5   |
| 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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| 45°   | 1133.1 | 1171.0 | 1211.2 | 1201.8 | 1224.3 | 1224.3 |
| 47.5° | 1099.9 | 1156.8 | 1210.1 | 1210.1 | 1243.2 | 1255.1 |
| 50°   | 1062.1 | 1144.9 | 1191.1 | 1207.7 | 1233.7 | 1224.3 |
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