

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: P194745

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-7060-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194745  
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-7060-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35439 lumens  
Efficiency: N/A  
Efficacy: 120.1 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): 295  
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



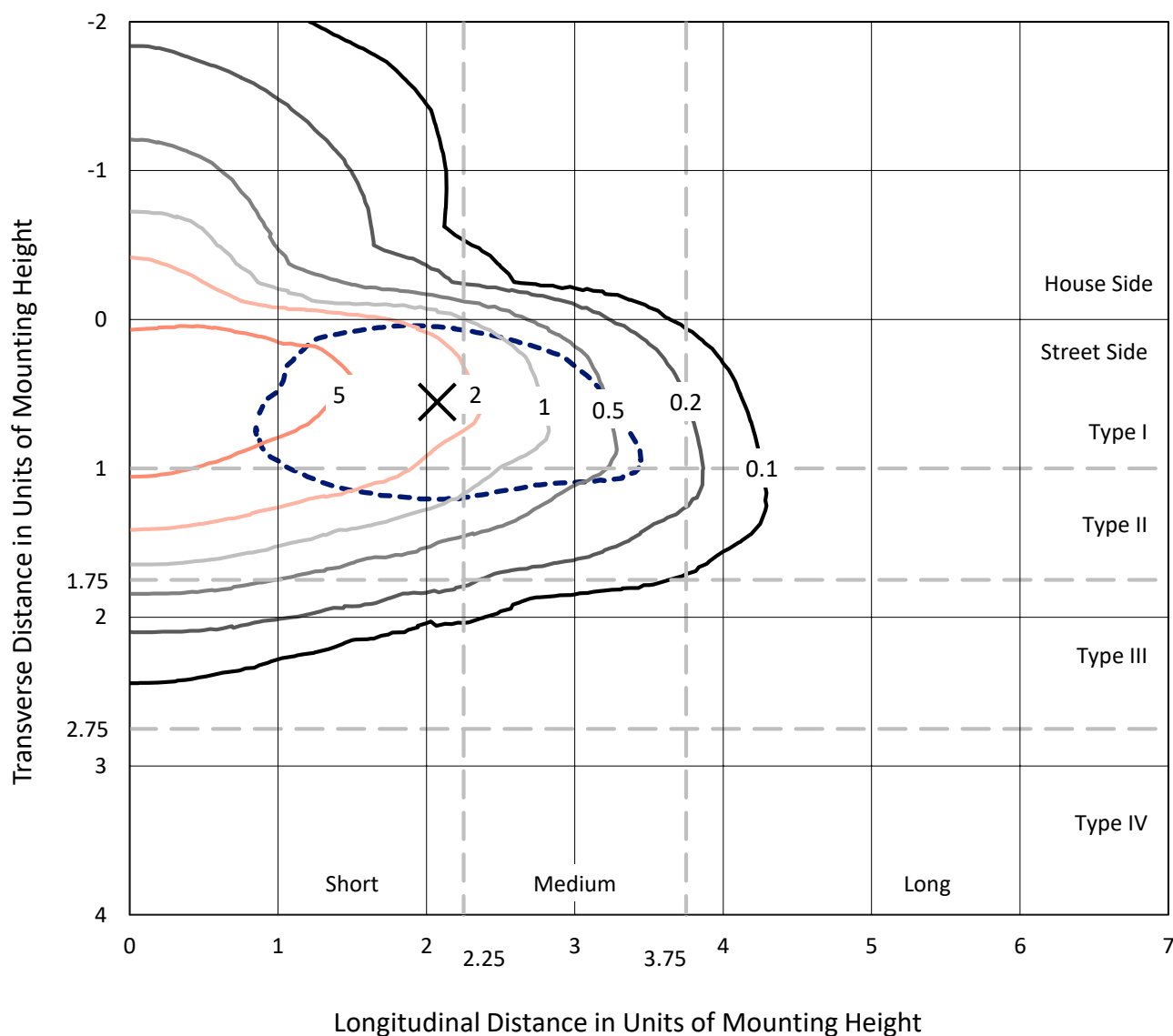
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

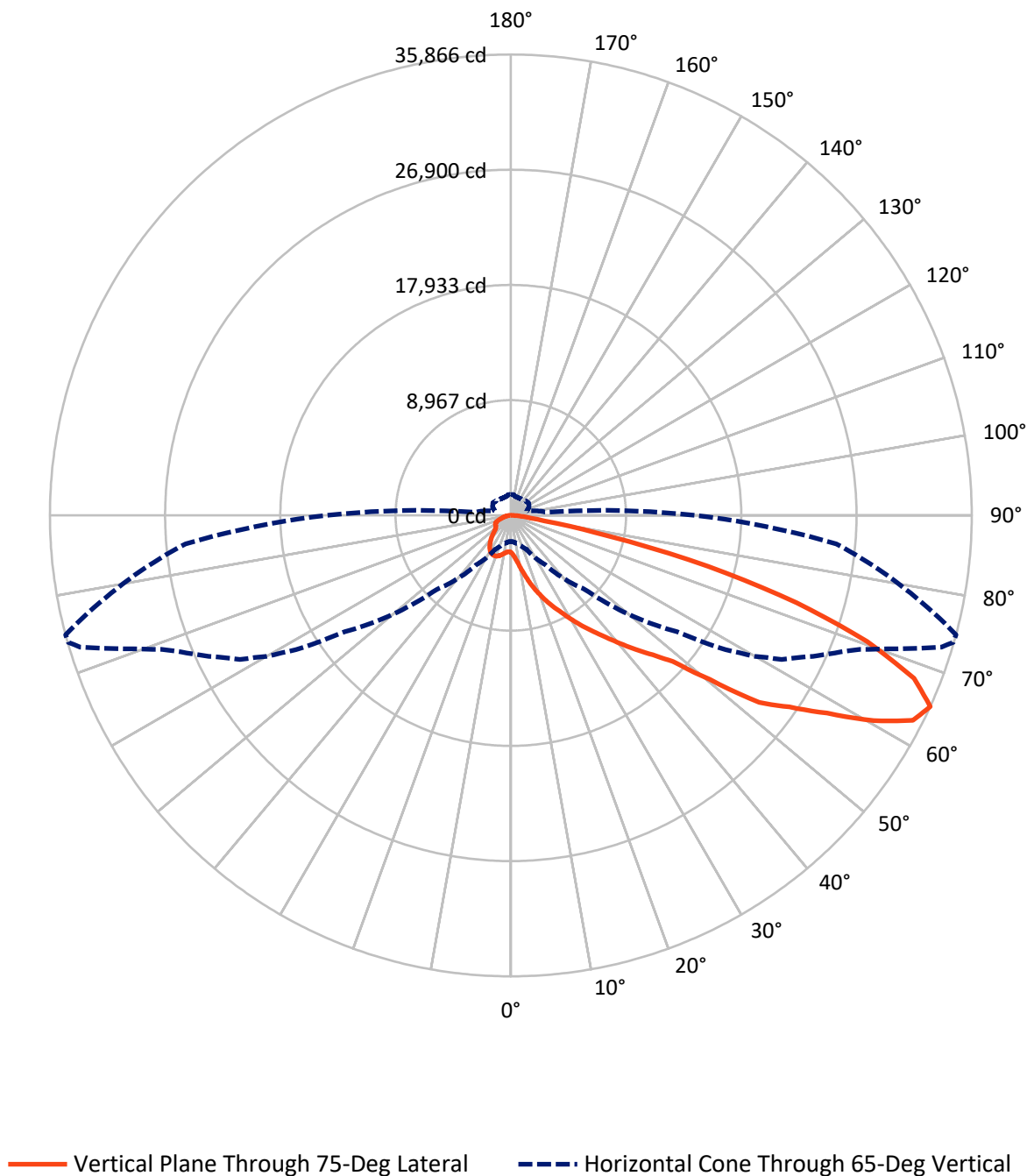


Based on 30 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5463.9   | 0.0    | 5463.9  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 29975.1  | 0.0    | 29975.1 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 35439.0  | 0.0    | 35439.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 356.0   | 1.0       |
| 10°-20°   | 1390.9  | 3.9       |
| 20°-30°   | 2853.7  | 8.1       |
| 30°-40°   | 4801.3  | 13.5      |
| 40°-50°   | 6634.0  | 18.7      |
| 50°-60°   | 8281.2  | 23.4      |
| 60°-70°   | 7452.2  | 21.0      |
| 70°-80°   | 3123.9  | 8.8       |
| 80°-90°   | 545.8   | 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°    | 35439.0 | 100.0     |
| 0°-180°   | 35439.0 | 100.0     |

**Coefficient of Utilization**



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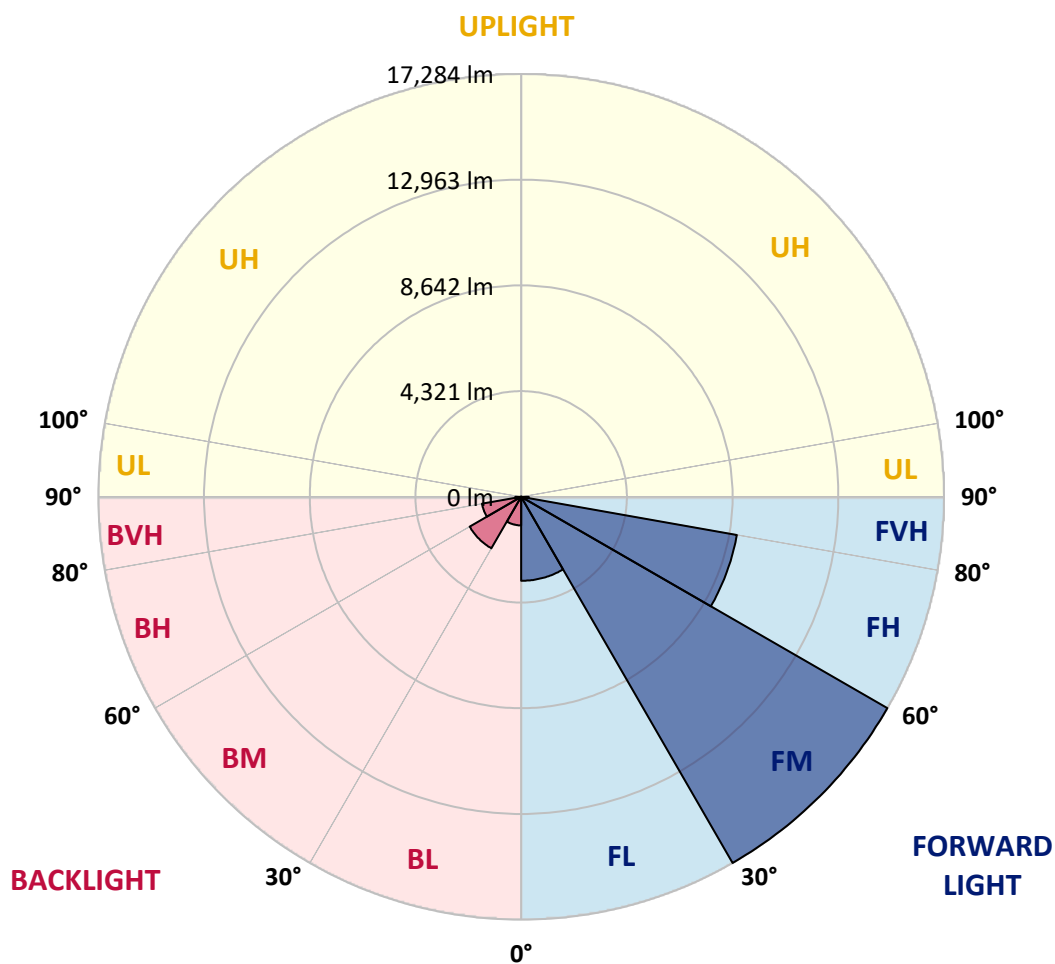
CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7060-800

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3432.2  | 9.7       |                         |      |          |
| FM   | (30°-60°)   | 17284.5 | 48.8      |                         |      |          |
| FH   | (60°-80°)   | 8951.8  | 25.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 306.8   | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1168.5  | 3.3       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2432.0  | 6.9       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1624.3  | 4.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 239.0   | 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°    | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  |
| 2.5°  | 3656.7  | 3616.5  | 3626.5  | 3559.4  | 3477.3  | 3369.9  | 3250.8  | 3249.1  | 3250.8  | 3239.1  | 3195.4  |
| 5°    | 5070.8  | 5022.1  | 5003.7  | 4852.7  | 4631.3  | 4316.0  | 3973.8  | 3936.9  | 3921.8  | 3883.2  | 3794.3  |
| 7.5°  | 6102.4  | 6075.5  | 6047.0  | 5933.0  | 5731.7  | 5379.4  | 4919.8  | 4841.0  | 4765.5  | 4747.0  | 4646.4  |
| 10°   | 6768.3  | 6761.6  | 6701.2  | 6671.0  | 6545.2  | 6239.9  | 5792.1  | 5716.6  | 5634.4  | 5605.9  | 5500.2  |
| 12.5° | 7295.0  | 7293.3  | 7264.8  | 7273.2  | 7164.2  | 6942.8  | 6557.0  | 6488.2  | 6427.8  | 6340.6  | 6265.1  |
| 15°   | 7659.0  | 7660.7  | 7702.6  | 7749.6  | 7732.8  | 7583.5  | 7221.2  | 7191.0  | 7139.0  | 7078.6  | 6989.7  |
| 17.5° | 7957.6  | 7966.0  | 8009.6  | 8095.1  | 8187.4  | 8175.6  | 7888.8  | 7863.7  | 7818.4  | 7736.2  | 7689.2  |
| 20°   | 8631.9  | 8663.8  | 8579.9  | 8579.9  | 8590.0  | 8635.3  | 8497.7  | 8477.6  | 8413.8  | 8370.2  | 8333.3  |
| 22.5° | 9770.9  | 9807.8  | 9618.2  | 9425.3  | 9235.8  | 9098.2  | 8960.7  | 8985.8  | 8942.2  | 8912.0  | 8890.2  |
| 25°   | 11250.3 | 11278.8 | 10971.9 | 10646.5 | 10260.7 | 9757.4  | 9416.9  | 9401.8  | 9378.3  | 9359.9  | 9349.8  |
| 27.5° | 12642.6 | 12654.3 | 12364.1 | 11887.7 | 11439.9 | 10716.9 | 9879.9  | 9861.4  | 9832.9  | 9797.7  | 9767.5  |
| 30°   | 13833.5 | 13830.2 | 13531.6 | 13077.0 | 12597.3 | 11797.2 | 10582.7 | 10525.7 | 10441.8 | 10346.2 | 10272.4 |
| 32.5° | 14865.1 | 14860.1 | 14533.0 | 14061.6 | 13558.4 | 12867.3 | 11545.5 | 11428.1 | 11297.3 | 11111.1 | 10998.7 |
| 35°   | 15677.0 | 15673.6 | 15365.0 | 14873.5 | 14296.5 | 13875.5 | 12649.3 | 12505.0 | 12339.0 | 12089.0 | 11916.3 |
| 37.5° | 15983.9 | 15983.9 | 15811.2 | 15475.7 | 14965.8 | 14677.3 | 13875.5 | 13701.0 | 13523.2 | 13239.7 | 13045.1 |
| 40°   | 15804.5 | 15807.8 | 15844.7 | 15782.7 | 15534.4 | 15313.0 | 15019.4 | 14915.4 | 14762.8 | 14507.8 | 14304.9 |
| 42.5° | 15202.3 | 15220.7 | 15465.6 | 15765.9 | 15890.0 | 15854.8 | 16034.3 | 15987.3 | 15880.0 | 15683.7 | 15522.7 |
| 45°   | 14439.1 | 14496.1 | 14764.5 | 15331.4 | 15989.0 | 16322.8 | 16884.7 | 16889.7 | 16869.6 | 16763.9 | 16639.8 |
| 47.5° | 13390.7 | 13471.2 | 13825.1 | 14591.7 | 15757.5 | 16777.4 | 17748.6 | 17793.9 | 17835.8 | 17767.0 | 17710.0 |
| 50°   | 11998.4 | 12094.1 | 12624.1 | 13640.6 | 15286.2 | 17248.7 | 19380.7 | 19585.3 | 19776.6 | 19753.1 | 19791.6 |
| 52.5° | 10507.2 | 10619.6 | 11268.8 | 12401.0 | 14476.0 | 17357.7 | 20424.0 | 20757.8 | 21091.6 | 21365.1 | 21655.2 |
| 55°   | 9162.0  | 9101.6  | 9750.7  | 10943.4 | 13144.1 | 16866.3 | 21361.7 | 21764.3 | 22136.7 | 22472.1 | 22817.7 |
| 57.5° | 7338.6  | 7437.6  | 8088.4  | 9267.6  | 11381.2 | 15479.1 | 22007.5 | 22596.3 | 23131.4 | 23686.6 | 24176.4 |
| 60°   | 5364.3  | 5463.3  | 6169.5  | 7367.1  | 9467.2  | 13375.6 | 21514.3 | 22406.7 | 23263.9 | 24114.3 | 24778.6 |
| 62.5° | 3239.1  | 3312.9  | 3935.2  | 5075.8  | 7300.0  | 10881.3 | 19316.9 | 20487.8 | 21749.2 | 22765.7 | 23783.9 |
| 65°   | 2016.2  | 2058.2  | 2288.0  | 2915.3  | 4688.3  | 8123.7  | 15782.7 | 17059.2 | 18417.9 | 19707.8 | 20766.2 |
| 67.5° | 1650.6  | 1665.7  | 1707.6  | 1841.8  | 2574.8  | 5297.2  | 11746.8 | 12877.4 | 14103.6 | 15351.6 | 16529.1 |
| 70°   | 1484.5  | 1474.4  | 1474.4  | 1482.8  | 1650.6  | 2848.2  | 7690.9  | 8427.3  | 9448.8  | 10534.1 | 11611.0 |
| 72.5° | 1340.2  | 1330.2  | 1311.7  | 1286.6  | 1347.0  | 1737.8  | 3975.4  | 4530.7  | 5267.0  | 6231.5  | 7263.1  |
| 75°   | 1204.4  | 1191.0  | 1169.1  | 1137.3  | 1179.2  | 1311.7  | 1908.9  | 2142.0  | 2501.0  | 3014.3  | 3589.6  |
| 77.5° | 1063.5  | 1046.7  | 1026.6  | 1003.1  | 1056.8  | 1019.9  | 1118.8  | 1202.7  | 1340.2  | 1504.6  | 1721.0  |
| 80°   | 904.1   | 889.0   | 882.3   | 870.6   | 934.3   | 776.6   | 790.1   | 842.1   | 922.6   | 1011.5  | 1112.1  |
| 82.5° | 707.9   | 707.9   | 734.7   | 739.7   | 810.2   | 558.6   | 590.4   | 635.7   | 677.7   | 724.6   | 771.6   |
| 85°   | 466.3   | 469.7   | 560.3   | 595.5   | 639.1   | 375.7   | 442.8   | 457.9   | 491.5   | 518.3   | 538.4   |
| 87.5° | 145.9   | 157.7   | 342.2   | 379.1   | 367.4   | 213.0   | 271.7   | 278.4   | 301.9   | 320.4   | 337.2   |
| 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):**

|       | 60°     | 61°     | 62°     | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  |
| 2.5°  | 3195.4  | 3175.3  | 3156.9  | 3155.2  | 3141.8  | 3123.3  | 3130.0  | 3101.5  | 3103.2  | 3088.1  | 3071.3  |
| 5°    | 3757.4  | 3744.0  | 3676.9  | 3658.4  | 3608.1  | 3576.2  | 3571.2  | 3504.1  | 3495.7  | 3457.1  | 3415.2  |
| 7.5°  | 4565.9  | 4522.3  | 4428.3  | 4383.0  | 4297.5  | 4233.8  | 4203.6  | 4114.7  | 4071.1  | 3970.4  | 3925.1  |
| 10°   | 5413.0  | 5357.6  | 5241.9  | 5178.1  | 5095.9  | 4993.6  | 4938.3  | 4809.1  | 4758.8  | 4666.5  | 4555.8  |
| 12.5° | 6198.0  | 6142.6  | 6023.5  | 5974.9  | 5865.9  | 5756.8  | 5696.5  | 5550.5  | 5485.1  | 5337.5  | 5250.3  |
| 15°   | 6924.3  | 6869.0  | 6765.0  | 6714.6  | 6605.6  | 6516.7  | 6436.2  | 6291.9  | 6214.8  | 6077.2  | 5963.2  |
| 17.5° | 7628.8  | 7570.1  | 7479.5  | 7434.2  | 7328.6  | 7238.0  | 7150.8  | 7014.9  | 6936.1  | 6798.5  | 6696.2  |
| 20°   | 8283.0  | 8239.4  | 8174.0  | 8113.6  | 8007.9  | 7925.7  | 7821.7  | 7704.3  | 7590.2  | 7489.6  | 7392.3  |
| 22.5° | 8853.3  | 8836.5  | 8766.1  | 8739.3  | 8648.7  | 8578.2  | 8487.6  | 8371.9  | 8289.7  | 8162.2  | 8071.7  |
| 25°   | 9344.8  | 9339.8  | 9306.2  | 9297.8  | 9234.1  | 9167.0  | 9146.9  | 9051.3  | 8975.8  | 8863.4  | 8769.4  |
| 27.5° | 9767.5  | 9772.5  | 9764.1  | 9787.6  | 9770.9  | 9740.7  | 9742.3  | 9710.5  | 9666.9  | 9572.9  | 9490.7  |
| 30°   | 10237.2 | 10210.3 | 10225.4 | 10259.0 | 10269.0 | 10272.4 | 10327.8 | 10346.2 | 10342.9 | 10280.8 | 10240.5 |
| 32.5° | 10901.4 | 10837.7 | 10779.0 | 10773.9 | 10807.5 | 10820.9 | 10914.8 | 10963.5 | 11005.4 | 11020.5 | 11027.2 |
| 35°   | 11748.5 | 11621.0 | 11498.6 | 11433.2 | 11376.1 | 11391.2 | 11458.3 | 11537.2 | 11629.4 | 11693.2 | 11768.6 |
| 37.5° | 12815.3 | 12659.3 | 12443.0 | 12288.6 | 12250.1 | 12166.2 | 12209.8 | 12271.9 | 12362.4 | 12461.4 | 12592.2 |
| 40°   | 14108.6 | 13872.1 | 13628.9 | 13424.2 | 13313.5 | 13159.2 | 13157.5 | 13145.8 | 13201.1 | 13293.4 | 13477.9 |
| 42.5° | 15353.2 | 15143.6 | 14885.3 | 14670.5 | 14526.3 | 14320.0 | 14278.0 | 14169.0 | 14194.2 | 14274.7 | 14454.2 |
| 45°   | 16519.0 | 16346.3 | 16188.6 | 15940.3 | 15817.9 | 15594.8 | 15524.3 | 15395.2 | 15323.1 | 15360.0 | 15539.4 |
| 47.5° | 17647.9 | 17537.2 | 17372.8 | 17211.8 | 17117.9 | 16918.3 | 16827.7 | 16735.4 | 16643.2 | 16639.8 | 16827.7 |
| 50°   | 19848.7 | 19790.0 | 19595.4 | 19427.7 | 19472.9 | 19228.0 | 19243.1 | 18994.9 | 19107.3 | 19120.7 | 19514.9 |
| 52.5° | 21916.9 | 22121.6 | 22265.8 | 22441.9 | 22556.0 | 22577.8 | 22653.3 | 22765.7 | 22901.5 | 23169.9 | 23535.6 |
| 55°   | 23101.2 | 23357.8 | 23507.1 | 23641.3 | 23862.7 | 23909.7 | 24035.5 | 24184.8 | 24303.9 | 24605.8 | 24916.1 |
| 57.5° | 24508.5 | 24984.9 | 25216.4 | 25429.4 | 25728.0 | 25842.0 | 26051.7 | 26214.4 | 26368.7 | 26726.0 | 27101.8 |
| 60°   | 25375.7 | 25956.1 | 26427.4 | 26764.6 | 27138.7 | 27407.0 | 27724.1 | 27979.0 | 28341.4 | 28769.1 | 29329.3 |
| 62.5° | 24686.3 | 25538.4 | 26164.1 | 26742.8 | 27251.0 | 27764.3 | 28218.9 | 28695.3 | 29245.5 | 29893.0 | 30761.8 |
| 65°   | 21940.4 | 22807.6 | 23879.5 | 24480.0 | 25152.6 | 25944.4 | 26635.4 | 27407.0 | 28156.8 | 29099.5 | 30384.4 |
| 67.5° | 17663.0 | 18671.1 | 19875.5 | 20481.1 | 21254.3 | 22138.3 | 22913.3 | 23856.0 | 24731.6 | 25873.9 | 27462.4 |
| 70°   | 12731.5 | 14034.8 | 15048.0 | 15680.3 | 16582.8 | 17493.6 | 18241.7 | 19338.8 | 20063.4 | 21234.2 | 22876.4 |
| 72.5° | 8061.6  | 9089.8  | 10331.1 | 11127.9 | 11929.7 | 12852.2 | 13617.1 | 14563.2 | 15239.2 | 16306.0 | 17793.9 |
| 75°   | 4334.4  | 5092.6  | 6182.9  | 6939.4  | 7798.2  | 8586.6  | 9482.3  | 10116.4 | 10616.3 | 11460.0 | 12667.7 |
| 77.5° | 2031.3  | 2492.6  | 3044.5  | 3626.5  | 4208.6  | 4815.8  | 5406.3  | 5919.5  | 6134.3  | 6617.3  | 7330.2  |
| 80°   | 1232.9  | 1382.2  | 1543.2  | 1722.7  | 1965.9  | 2162.2  | 2422.2  | 2610.0  | 2623.5  | 2776.1  | 2994.2  |
| 82.5° | 823.6   | 879.0   | 927.6   | 972.9   | 1035.0  | 1083.6  | 1139.0  | 1204.4  | 1231.2  | 1266.4  | 1336.9  |
| 85°   | 561.9   | 588.8   | 598.8   | 627.3   | 620.6   | 637.4   | 659.2   | 681.0   | 692.8   | 691.1   | 723.0   |
| 87.5° | 345.5   | 359.0   | 365.7   | 372.4   | 367.4   | 360.6   | 370.7   | 382.4   | 385.8   | 375.7   | 379.1   |
| 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):**

|       | 71°     | 72°     | 73°     | 74°     | 75°     | 85°     | 90°     | 95°    | 105°   | 115°   | 125°   |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1  | 2880.1 | 2880.1 | 2880.1 | 2880.1 |
| 2.5°  | 3074.7  | 3059.6  | 3044.5  | 3034.4  | 3031.1  | 2942.2  | 2903.6  | 2878.4 | 2824.7 | 2781.1 | 2745.9 |
| 5°    | 3391.7  | 3359.8  | 3334.7  | 3304.5  | 3287.7  | 3062.9  | 2980.7  | 2923.7 | 2829.8 | 2774.4 | 2724.1 |
| 7.5°  | 3901.6  | 3812.7  | 3760.7  | 3702.0  | 3651.7  | 3245.8  | 3109.9  | 3021.0 | 2890.2 | 2816.4 | 2759.3 |
| 10°   | 4480.3  | 4388.1  | 4305.9  | 4215.3  | 4136.5  | 3489.0  | 3291.1  | 3153.5 | 2980.7 | 2885.1 | 2809.6 |
| 12.5° | 5126.1  | 5035.6  | 4931.6  | 4815.8  | 4715.2  | 3797.6  | 3522.5  | 3326.3 | 3089.8 | 2962.3 | 2856.6 |
| 15°   | 5889.4  | 5730.0  | 5604.2  | 5470.0  | 5352.6  | 4166.7  | 3792.6  | 3520.9 | 3205.5 | 3032.7 | 2891.8 |
| 17.5° | 6598.9  | 6431.2  | 6260.1  | 6142.6  | 6006.8  | 4581.0  | 4064.3  | 3718.8 | 3301.1 | 3078.0 | 2898.5 |
| 20°   | 7291.7  | 7108.8  | 6961.2  | 6803.5  | 6661.0  | 5010.4  | 4354.5  | 3893.2 | 3363.2 | 3079.7 | 2856.6 |
| 22.5° | 7902.2  | 7788.2  | 7623.8  | 7452.7  | 7308.4  | 5439.8  | 4626.3  | 4040.9 | 3386.7 | 3041.1 | 2782.8 |
| 25°   | 8596.7  | 8475.9  | 8274.6  | 8130.4  | 7969.3  | 5877.6  | 4893.0  | 4154.9 | 3373.3 | 2969.0 | 2668.7 |
| 27.5° | 9338.1  | 9203.9  | 8997.6  | 8846.6  | 8652.0  | 6332.2  | 5137.9  | 4237.1 | 3322.9 | 2851.6 | 2516.1 |
| 30°   | 10111.4 | 9988.9  | 9786.0  | 9633.3  | 9437.1  | 6813.6  | 5411.3  | 4292.5 | 3222.3 | 2688.9 | 2338.3 |
| 32.5° | 10941.7 | 10839.4 | 10638.1 | 10478.7 | 10269.0 | 7335.3  | 5666.3  | 4309.2 | 3069.6 | 2496.0 | 2150.4 |
| 35°   | 11730.1 | 11659.6 | 11490.2 | 11340.9 | 11122.8 | 7828.4  | 5936.3  | 4300.9 | 2888.5 | 2284.6 | 1979.3 |
| 37.5° | 12617.4 | 12575.5 | 12491.6 | 12302.1 | 12035.3 | 8497.7  | 6260.1  | 4265.6 | 2667.1 | 2074.9 | 1848.5 |
| 40°   | 13563.5 | 13566.8 | 13476.2 | 13347.1 | 13098.8 | 9309.6  | 6645.9  | 4196.9 | 2425.5 | 1890.4 | 1729.4 |
| 42.5° | 14564.9 | 14616.9 | 14573.3 | 14481.0 | 14242.8 | 10128.1 | 7107.1  | 4113.0 | 2190.7 | 1710.9 | 1612.0 |
| 45°   | 15712.2 | 15776.0 | 15843.0 | 15707.2 | 15475.7 | 11208.4 | 7714.4  | 4004.0 | 1937.4 | 1561.7 | 1531.5 |
| 47.5° | 17035.7 | 17136.3 | 17196.7 | 17198.4 | 16966.9 | 12547.0 | 8700.7  | 3938.5 | 1712.6 | 1461.0 | 1492.9 |
| 50°   | 19828.6 | 19860.4 | 20003.0 | 20251.3 | 20073.5 | 15645.1 | 10423.4 | 3898.3 | 1560.0 | 1399.0 | 1464.4 |
| 52.5° | 23852.6 | 24203.2 | 24449.8 | 24433.0 | 24191.5 | 17612.7 | 11372.8 | 3690.3 | 1469.4 | 1375.5 | 1451.0 |
| 55°   | 25491.5 | 25929.3 | 26385.5 | 26506.3 | 26318.4 | 19291.8 | 12270.2 | 3482.3 | 1425.8 | 1392.2 | 1456.0 |
| 57.5° | 27675.4 | 28413.5 | 29039.2 | 29302.5 | 29030.8 | 21440.5 | 13451.1 | 3373.3 | 1412.4 | 1437.5 | 1487.9 |
| 60°   | 30226.8 | 31139.3 | 31961.2 | 32434.2 | 32434.2 | 23909.7 | 14675.6 | 3328.0 | 1393.9 | 1504.6 | 1541.5 |
| 62.5° | 31865.6 | 33205.8 | 34447.1 | 35139.9 | 35119.7 | 25629.0 | 15219.1 | 3173.6 | 1352.0 | 1551.6 | 1615.3 |
| 65°   | 31872.3 | 33465.8 | 35047.6 | 35825.9 | 35866.2 | 25417.6 | 14321.6 | 2802.9 | 1274.8 | 1558.3 | 1689.1 |
| 67.5° | 29215.3 | 30914.5 | 32758.0 | 33628.5 | 33829.8 | 23398.1 | 12397.7 | 2304.7 | 1149.0 | 1491.2 | 1716.0 |
| 70°   | 24674.6 | 26333.5 | 28215.6 | 29071.0 | 29428.3 | 19946.0 | 9985.6  | 1776.4 | 988.0  | 1343.6 | 1660.6 |
| 72.5° | 19439.4 | 21066.5 | 22376.5 | 23002.2 | 23280.6 | 15245.9 | 7271.5  | 1341.9 | 810.2  | 1132.2 | 1511.3 |
| 75°   | 13763.1 | 14984.2 | 15680.3 | 15819.6 | 15863.2 | 9190.5  | 4418.3  | 998.1  | 667.6  | 880.6  | 1276.5 |
| 77.5° | 7768.0  | 8291.4  | 8234.4  | 8296.4  | 7779.8  | 3547.7  | 1924.0  | 714.6  | 550.2  | 669.3  | 989.7  |
| 80°   | 3032.7  | 3126.7  | 2937.1  | 2878.4  | 2640.2  | 1320.1  | 848.8   | 498.2  | 439.5  | 506.6  | 692.8  |
| 82.5° | 1336.9  | 1380.5  | 1340.2  | 1350.3  | 1291.6  | 681.0   | 508.3   | 360.6  | 335.5  | 370.7  | 459.6  |
| 85°   | 736.4   | 749.8   | 746.4   | 768.2   | 736.4   | 271.7   | 241.5   | 221.4  | 234.8  | 251.6  | 295.2  |
| 87.5° | 359.0   | 362.3   | 350.6   | 369.0   | 357.3   | 137.5   | 119.1   | 125.8  | 137.5  | 140.9  | 140.9  |
| 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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|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 | 2880.1 |
| 2.5°  | 2720.7 | 2707.3 | 2709.0 | 2705.6 | 2698.9 | 2698.9 |
| 5°    | 2697.3 | 2683.8 | 2683.8 | 2680.5 | 2672.1 | 2673.8 |
| 7.5°  | 2720.7 | 2698.9 | 2690.6 | 2678.8 | 2667.1 | 2667.1 |
| 10°   | 2747.6 | 2709.0 | 2685.5 | 2665.4 | 2650.3 | 2650.3 |
| 12.5° | 2767.7 | 2707.3 | 2668.7 | 2641.9 | 2626.8 | 2626.8 |
| 15°   | 2774.4 | 2695.6 | 2641.9 | 2610.0 | 2596.6 | 2594.9 |
| 17.5° | 2752.6 | 2650.3 | 2584.9 | 2548.0 | 2531.2 | 2526.2 |
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| 27.5° | 2279.6 | 2145.4 | 2068.2 | 2041.4 | 2026.3 | 2024.6 |
| 30°   | 2123.6 | 2009.5 | 1952.5 | 1932.4 | 1913.9 | 1910.6 |
| 32.5° | 1977.7 | 1905.5 | 1883.7 | 1855.2 | 1811.6 | 1806.6 |
| 35°   | 1873.7 | 1866.9 | 1851.9 | 1788.1 | 1734.4 | 1719.3 |
| 37.5° | 1809.9 | 1872.0 | 1794.8 | 1669.0 | 1630.4 | 1627.1 |
| 40°   | 1773.0 | 1820.0 | 1687.5 | 1643.9 | 1647.2 | 1643.9 |
| 42.5° | 1689.1 | 1737.8 | 1690.8 | 1670.7 | 1684.1 | 1687.5 |
| 45°   | 1605.3 | 1658.9 | 1716.0 | 1702.6 | 1734.4 | 1734.4 |
| 47.5° | 1558.3 | 1638.8 | 1714.3 | 1714.3 | 1761.3 | 1778.0 |
| 50°   | 1504.6 | 1622.0 | 1687.5 | 1710.9 | 1747.9 | 1734.4 |
| 52.5° | 1501.3 | 1593.5 | 1648.9 | 1690.8 | 1707.6 | 1692.5 |
| 55°   | 1506.3 | 1570.0 | 1610.3 | 1657.3 | 1677.4 | 1679.1 |
| 57.5° | 1513.0 | 1556.6 | 1583.5 | 1605.3 | 1665.7 | 1665.7 |
| 60°   | 1529.8 | 1544.9 | 1560.0 | 1571.7 | 1650.6 | 1652.2 |
| 62.5° | 1556.6 | 1533.1 | 1529.8 | 1541.5 | 1642.2 | 1635.5 |
| 65°   | 1598.6 | 1516.4 | 1491.2 | 1503.0 | 1633.8 | 1613.7 |
| 67.5° | 1655.6 | 1491.2 | 1442.6 | 1451.0 | 1627.1 | 1583.5 |
| 70°   | 1707.6 | 1451.0 | 1382.2 | 1373.8 | 1563.3 | 1486.2 |
| 72.5° | 1712.6 | 1404.0 | 1298.3 | 1273.1 | 1358.7 | 1284.9 |
| 75°   | 1628.8 | 1372.1 | 1206.1 | 1132.2 | 1122.2 | 1112.1 |
| 77.5° | 1467.7 | 1353.7 | 1098.7 | 983.0  | 962.8  | 969.5  |
| 80°   | 1227.9 | 1284.9 | 969.5  | 832.0  | 941.0  | 929.3  |
| 82.5° | 917.5  | 1133.9 | 823.6  | 736.4  | 734.7  | 649.2  |
| 85°   | 509.9  | 884.0  | 671.0  | 551.9  | 384.1  | 372.4  |
| 87.5° | 142.6  | 491.5  | 469.7  | 312.0  | 213.0  | 221.4  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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