

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: LUMARK

Report Number: P195317

Luminaire Tested: **NAV-AF-05-D-UNV-T2R-7060-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P195317  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24459)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-AF-05-D-UNV-T2R-7060-600  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20761 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 162  
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

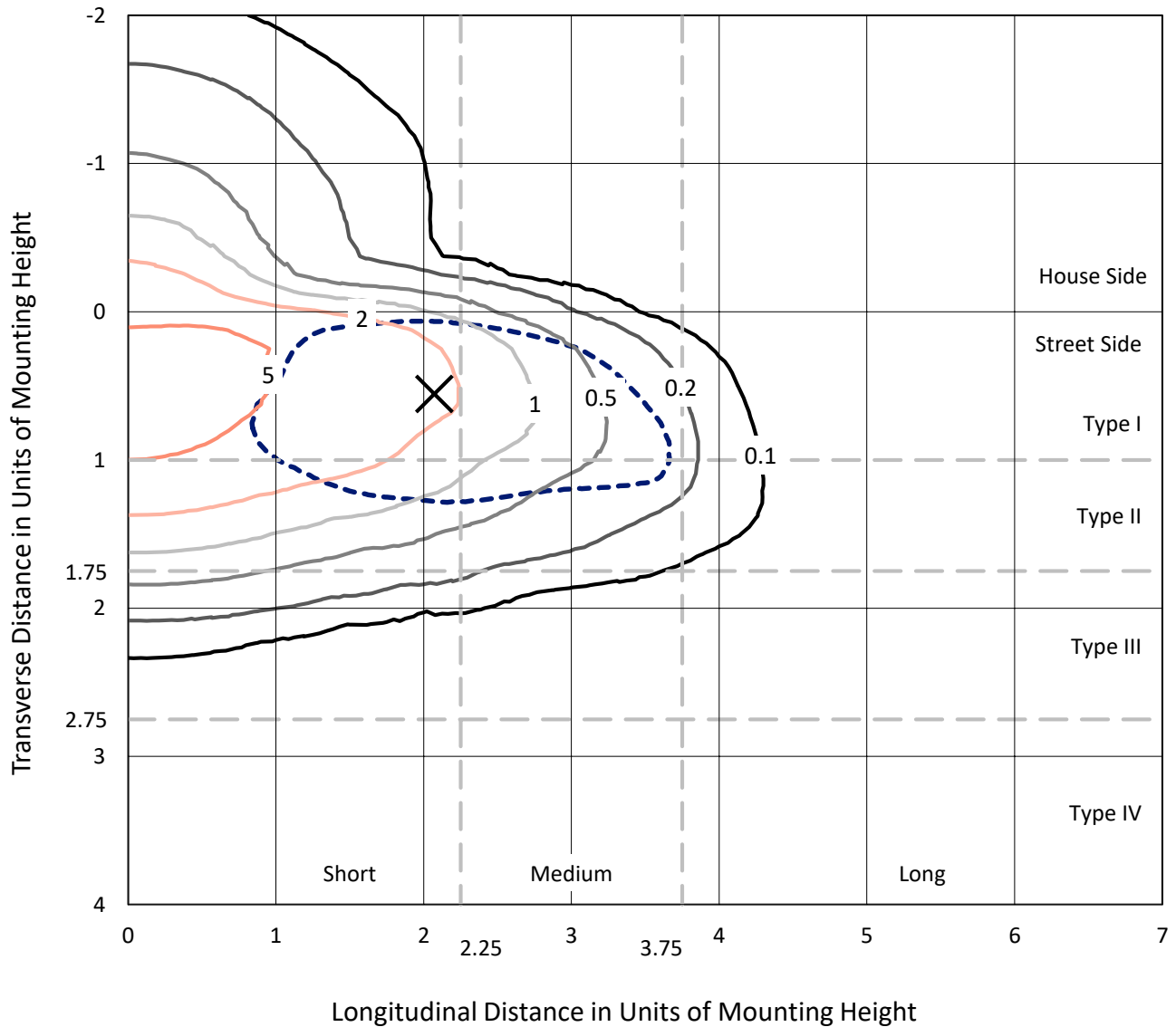


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### Iso-Footcandle Lines of Horizontal Illumination

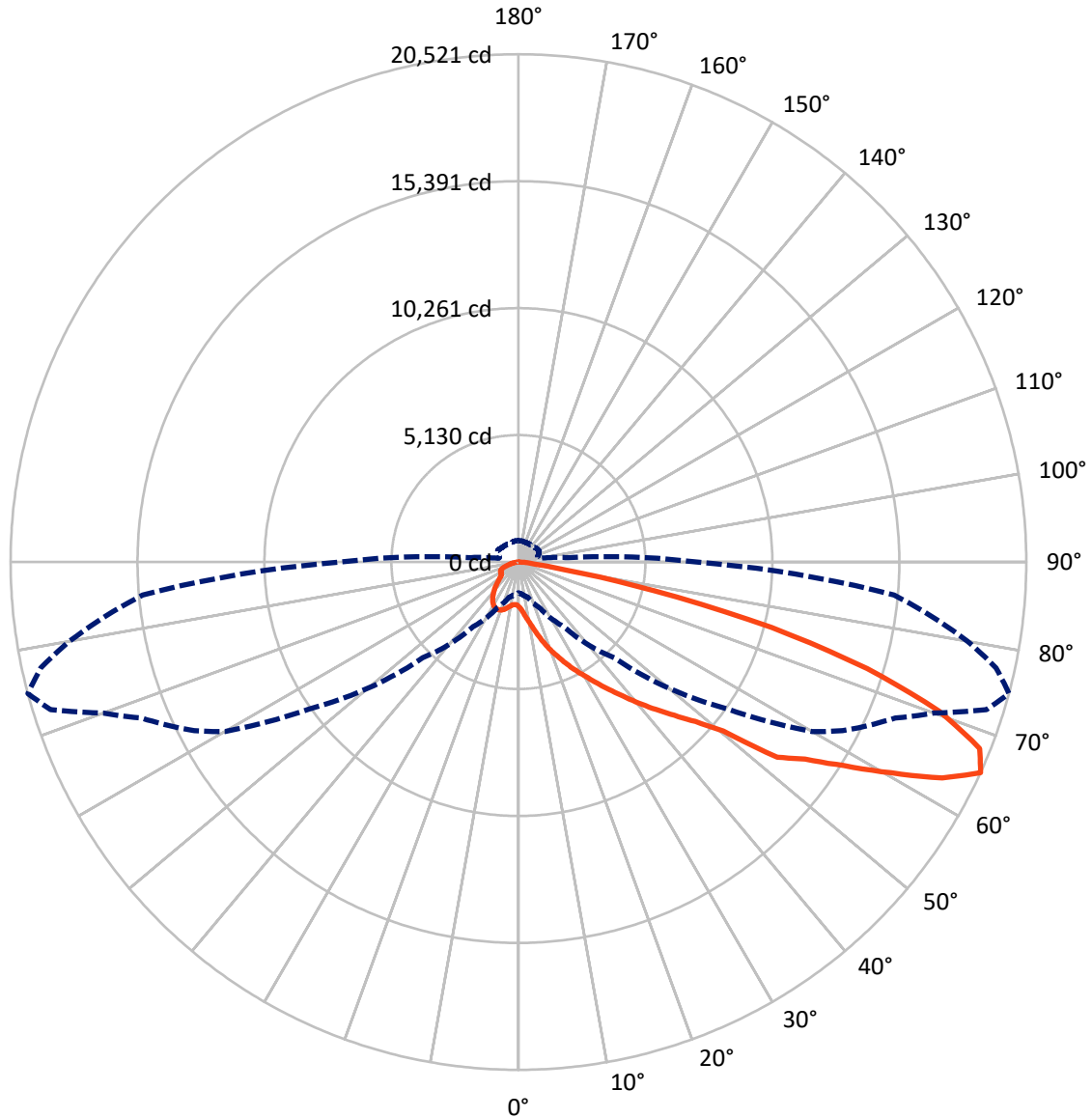
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3119.7   | 0.0    | 3119.7  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 17641.3  | 0.0    | 17641.3 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 20761.0  | 0.0    | 20761.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 212.4   | 1.0       |
| 10°-20°   | 811.1   | 3.9       |
| 20°-30°   | 1636.9  | 7.9       |
| 30°-40°   | 2779.9  | 13.4      |
| 40°-50°   | 3877.4  | 18.7      |
| 50°-60°   | 4752.2  | 22.9      |
| 60°-70°   | 4471.1  | 21.5      |
| 70°-80°   | 1960.6  | 9.4       |
| 80°-90°   | 259.4   | 1.2       |
| 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°    | 20761.0 | 100.0     |
| 0°-180°   | 20761.0 | 100.0     |



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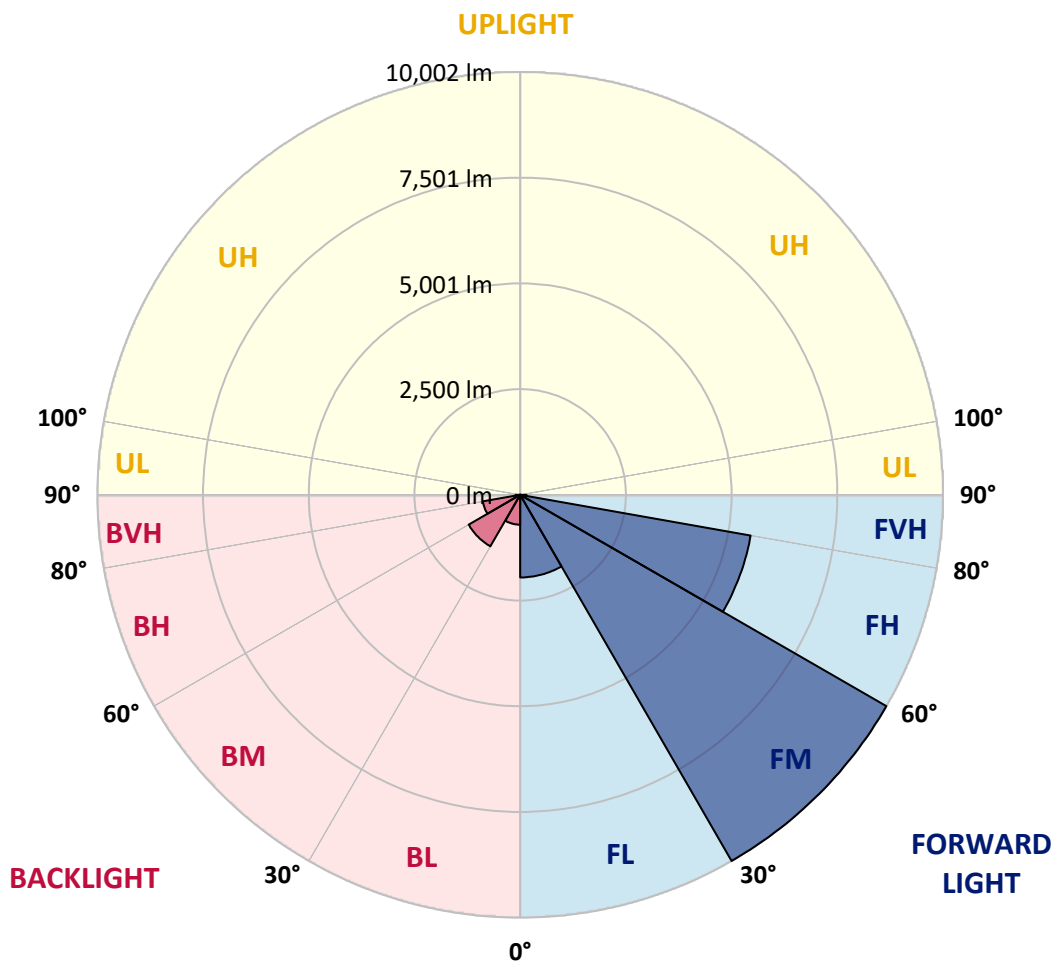
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1954.2  | 9.4       |                         |      |         |
| FM (30°-60°)   | 10001.7 | 48.2      |                         |      |         |
| FH (60°-80°)   | 5535.1  | 26.7      |                         |      | G3/7500 |
| FVH (80°-90°)  | 150.4   | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 706.2   | 3.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 1407.8  | 6.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 896.6   | 4.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 109.0   | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 57.5°   | 60°     | 62.5°   | 65°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8  | 1798.8  | 1798.8  | 1798.8  | 1798.8  | 1798.8  |
| 2.5°  | 2265.0 | 2238.6 | 2241.3 | 2204.3 | 2150.1 | 2090.7  | 2041.8  | 2015.4  | 1993.0  | 1986.4  | 1949.4  |
| 5°    | 2962.4 | 2929.3 | 2917.5 | 2832.9 | 2706.1 | 2555.6  | 2406.3  | 2348.2  | 2300.7  | 2271.6  | 2200.3  |
| 7.5°  | 3532.9 | 3515.7 | 3499.9 | 3422.0 | 3296.5 | 3103.7  | 2863.3  | 2777.5  | 2698.2  | 2611.1  | 2525.2  |
| 10°   | 3921.2 | 3914.6 | 3908.0 | 3853.8 | 3749.5 | 3581.8  | 3322.9  | 3229.1  | 3130.1  | 3019.2  | 2906.9  |
| 12.5° | 4214.4 | 4214.4 | 4219.7 | 4174.8 | 4111.4 | 3982.0  | 3746.9  | 3659.7  | 3559.3  | 3443.1  | 3315.0  |
| 15°   | 4411.2 | 4416.5 | 4444.2 | 4457.4 | 4424.4 | 4341.2  | 4135.2  | 4058.6  | 3963.5  | 3848.6  | 3721.8  |
| 17.5° | 4541.9 | 4552.5 | 4593.4 | 4637.0 | 4679.3 | 4650.2  | 4497.0  | 4425.7  | 4339.9  | 4234.2  | 4115.3  |
| 20°   | 4845.7 | 4832.5 | 4833.8 | 4820.6 | 4882.7 | 4905.1  | 4820.6  | 4761.2  | 4692.5  | 4596.1  | 4487.8  |
| 22.5° | 5483.6 | 5458.5 | 5393.8 | 5228.7 | 5153.4 | 5145.5  | 5095.3  | 5063.6  | 5010.8  | 4950.0  | 4841.7  |
| 25°   | 6315.7 | 6286.6 | 6158.5 | 5886.4 | 5661.9 | 5454.6  | 5362.1  | 5342.3  | 5308.0  | 5267.0  | 5189.1  |
| 27.5° | 7175.4 | 7143.7 | 6978.7 | 6635.3 | 6342.1 | 5923.4  | 5635.5  | 5609.1  | 5577.4  | 5560.2  | 5523.2  |
| 30°   | 7932.2 | 7897.9 | 7735.4 | 7386.8 | 7032.8 | 6533.6  | 6004.0  | 5911.5  | 5857.4  | 5862.7  | 5841.5  |
| 32.5° | 8596.5 | 8566.2 | 8383.9 | 8028.6 | 7669.4 | 7184.7  | 6482.1  | 6338.1  | 6216.6  | 6171.7  | 6187.5  |
| 35°   | 9153.9 | 9126.1 | 8926.7 | 8568.8 | 8206.9 | 7804.1  | 7097.5  | 6880.9  | 6682.8  | 6558.7  | 6544.1  |
| 37.5° | 9481.4 | 9465.6 | 9325.6 | 9021.8 | 8662.6 | 8366.7  | 7786.9  | 7546.6  | 7254.7  | 7073.7  | 6994.5  |
| 40°   | 9462.9 | 9480.1 | 9456.3 | 9319.0 | 9040.3 | 8825.0  | 8505.4  | 8267.7  | 7982.4  | 7713.0  | 7551.8  |
| 42.5° | 9193.5 | 9217.3 | 9324.2 | 9395.6 | 9320.3 | 9189.5  | 9132.7  | 8955.8  | 8699.5  | 8414.3  | 8191.1  |
| 45°   | 8823.7 | 8844.8 | 8983.5 | 9241.0 | 9456.3 | 9493.3  | 9682.2  | 9593.7  | 9377.1  | 9134.1  | 8888.4  |
| 47.5° | 8257.1 | 8298.1 | 8459.2 | 8868.6 | 9381.0 | 9737.6  | 10143.1 | 10184.0 | 10058.6 | 9857.8  | 9628.0  |
| 50°   | 7436.9 | 7491.1 | 7716.9 | 8299.4 | 9095.8 | 9988.6  | 10828.5 | 10984.4 | 10934.2 | 10730.8 | 10498.4 |
| 52.5° | 6597.0 | 6651.1 | 6952.2 | 7571.7 | 8636.2 | 10091.6 | 11503.4 | 11902.3 | 12190.2 | 12400.2 | 12441.1 |
| 55°   | 5722.7 | 5783.4 | 6113.6 | 6826.8 | 8023.3 | 9960.8  | 11985.5 | 12438.5 | 12730.4 | 12949.6 | 13038.1 |
| 57.5° | 4736.1 | 4804.8 | 5124.4 | 5845.5 | 7157.0 | 9435.2  | 12521.7 | 13163.6 | 13598.1 | 13936.2 | 14126.4 |
| 60°   | 3604.2 | 3690.1 | 4021.6 | 4748.0 | 6018.5 | 8428.8  | 12760.7 | 13710.3 | 14401.1 | 14908.2 | 15209.4 |
| 62.5° | 2284.8 | 2372.0 | 2716.7 | 3470.8 | 4722.9 | 7053.9  | 12084.5 | 13470.0 | 14648.0 | 15398.2 | 15950.3 |
| 65°   | 1246.8 | 1285.1 | 1476.6 | 2044.5 | 3184.2 | 5473.0  | 10370.3 | 12004.0 | 13701.1 | 14764.3 | 15612.2 |
| 67.5° | 935.1  | 940.3  | 960.2  | 1098.8 | 1695.8 | 3695.4  | 8107.9  | 9604.2  | 11488.9 | 12857.2 | 13870.1 |
| 70°   | 818.8  | 818.8  | 821.5  | 822.8  | 920.5  | 2002.2  | 5492.9  | 6870.4  | 8597.9  | 9982.0  | 11240.6 |
| 72.5° | 734.3  | 726.4  | 723.8  | 707.9  | 721.1  | 1026.2  | 2990.1  | 4227.6  | 5684.4  | 7237.5  | 8411.6  |
| 75°   | 633.9  | 632.6  | 632.6  | 616.8  | 624.7  | 722.4   | 1296.9  | 2028.6  | 3157.8  | 4604.0  | 5759.6  |
| 77.5° | 548.1  | 538.9  | 540.2  | 530.9  | 556.0  | 553.4   | 615.5   | 836.0   | 1374.9  | 2418.2  | 3377.1  |
| 80°   | 451.7  | 445.1  | 449.0  | 443.8  | 483.4  | 409.4   | 414.7   | 511.1   | 682.8   | 1060.5  | 1495.0  |
| 82.5° | 334.1  | 336.8  | 361.9  | 359.2  | 406.8  | 276.0   | 303.8   | 381.7   | 459.6   | 528.3   | 574.5   |
| 85°   | 195.5  | 199.4  | 260.2  | 273.4  | 298.5  | 145.3   | 186.2   | 227.2   | 256.2   | 284.0   | 295.8   |
| 87.5° | 21.1   | 27.7   | 145.3  | 149.2  | 133.4  | 43.6    | 75.3    | 95.1    | 101.7   | 108.3   | 95.1    |
| 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):**

|       | 67.5°   | 70°     | 72.5°   | 75°     | 77.5°   | 80°     | 85°     | 90°    | 95°    | 100°   | 102.5° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 1798.8  | 1798.8  | 1798.8  | 1798.8  | 1798.8  | 1798.8  | 1798.8  | 1798.8 | 1798.8 | 1798.8 | 1798.8 |
| 2.5°  | 1937.5  | 1920.3  | 1901.8  | 1891.3  | 1872.8  | 1856.9  | 1827.9  | 1804.1 | 1777.7 | 1759.2 | 1751.3 |
| 5°    | 2164.7  | 2123.7  | 2080.1  | 2048.4  | 2008.8  | 1974.5  | 1908.4  | 1829.2 | 1804.1 | 1751.3 | 1738.1 |
| 7.5°  | 2460.5  | 2386.5  | 2312.6  | 2251.8  | 2183.1  | 2126.4  | 2015.4  | 1872.8 | 1854.3 | 1769.8 | 1751.3 |
| 10°   | 2807.8  | 2699.5  | 2589.9  | 2496.2  | 2395.8  | 2308.6  | 2144.8  | 1944.1 | 1924.3 | 1816.0 | 1797.5 |
| 12.5° | 3196.1  | 3064.1  | 2922.7  | 2782.7  | 2663.9  | 2541.1  | 2317.9  | 2055.0 | 2023.3 | 1895.2 | 1870.1 |
| 15°   | 3596.3  | 3453.7  | 3289.9  | 3120.8  | 2974.2  | 2811.8  | 2530.5  | 2200.3 | 2142.2 | 1991.6 | 1957.3 |
| 17.5° | 3991.2  | 3836.7  | 3665.0  | 3476.1  | 3304.4  | 3110.3  | 2760.3  | 2362.8 | 2262.4 | 2086.7 | 2043.1 |
| 20°   | 4372.9  | 4215.7  | 4034.8  | 3849.9  | 3635.9  | 3414.0  | 2995.4  | 2522.6 | 2369.4 | 2166.0 | 2109.2 |
| 22.5° | 4720.2  | 4585.5  | 4404.6  | 4191.9  | 3975.4  | 3725.7  | 3234.4  | 2682.4 | 2463.1 | 2226.7 | 2154.1 |
| 25°   | 5086.1  | 4963.2  | 4783.6  | 4578.9  | 4326.7  | 4049.3  | 3481.4  | 2834.3 | 2538.4 | 2259.7 | 2169.9 |
| 27.5° | 5455.9  | 5350.2  | 5181.2  | 4965.9  | 4695.1  | 4387.4  | 3732.3  | 2974.2 | 2599.2 | 2270.3 | 2162.0 |
| 30°   | 5850.8  | 5768.9  | 5613.0  | 5372.7  | 5099.3  | 4758.5  | 4005.7  | 3111.6 | 2637.5 | 2255.8 | 2126.4 |
| 32.5° | 6224.5  | 6221.9  | 6083.2  | 5833.6  | 5539.1  | 5164.0  | 4293.6  | 3250.3 | 2657.3 | 2214.8 | 2064.3 |
| 35°   | 6612.8  | 6667.0  | 6562.6  | 6324.9  | 6014.5  | 5598.5  | 4611.9  | 3398.2 | 2658.6 | 2142.2 | 1983.7 |
| 37.5° | 7053.9  | 7150.4  | 7104.1  | 6878.3  | 6552.1  | 6093.8  | 4985.7  | 3564.6 | 2650.7 | 2041.8 | 1866.2 |
| 40°   | 7555.8  | 7687.9  | 7686.6  | 7496.4  | 7147.7  | 6648.5  | 5420.2  | 3750.8 | 2632.2 | 1916.4 | 1727.5 |
| 42.5° | 8130.3  | 8287.5  | 8331.1  | 8143.5  | 7790.9  | 7254.7  | 5918.1  | 3955.5 | 2603.1 | 1792.2 | 1580.9 |
| 45°   | 8788.0  | 8926.7  | 9008.6  | 8834.3  | 8480.3  | 7915.0  | 6490.0  | 4188.0 | 2567.5 | 1632.4 | 1413.2 |
| 47.5° | 9492.0  | 9653.1  | 9775.9  | 9626.7  | 9249.0  | 8667.9  | 7167.5  | 4487.8 | 2554.3 | 1450.1 | 1232.2 |
| 50°   | 10365.0 | 10531.4 | 10796.8 | 10729.5 | 10522.1 | 10054.6 | 8600.5  | 5195.7 | 2559.5 | 1277.1 | 1080.3 |
| 52.5° | 12530.9 | 12912.6 | 13248.1 | 13098.9 | 12606.2 | 11804.5 | 9765.4  | 5589.3 | 2448.6 | 1135.8 | 974.7  |
| 55°   | 13184.7 | 13617.9 | 14113.2 | 14051.1 | 13578.3 | 12770.0 | 10685.9 | 5918.1 | 2341.6 | 1032.8 | 906.0  |
| 57.5° | 14328.4 | 14839.6 | 15531.6 | 15518.4 | 14938.6 | 14028.6 | 11870.6 | 6311.7 | 2295.4 | 973.4  | 871.7  |
| 60°   | 15539.5 | 16190.6 | 17146.8 | 17296.1 | 16666.1 | 15719.1 | 13270.5 | 6795.1 | 2302.0 | 940.3  | 851.9  |
| 62.5° | 16424.4 | 17379.3 | 18770.0 | 19216.4 | 18474.2 | 17430.8 | 14723.3 | 7278.5 | 2262.4 | 902.0  | 828.1  |
| 65°   | 16478.6 | 17853.4 | 19826.6 | 20521.3 | 19769.8 | 18429.3 | 15235.8 | 7183.4 | 2024.7 | 850.5  | 789.8  |
| 67.5° | 15157.8 | 16948.7 | 19345.8 | 20107.9 | 19339.2 | 17813.8 | 14337.7 | 6280.0 | 1645.6 | 760.7  | 723.8  |
| 70°   | 12624.7 | 14703.5 | 17191.7 | 18041.0 | 17405.7 | 15861.8 | 12478.1 | 5016.1 | 1229.6 | 641.9  | 624.7  |
| 72.5° | 9756.1  | 11694.9 | 13954.7 | 14740.5 | 14254.5 | 12896.8 | 9842.0  | 3655.7 | 878.3  | 520.4  | 507.2  |
| 75°   | 6974.7  | 8625.6  | 10265.9 | 10565.7 | 10086.3 | 8839.5  | 6385.7  | 2283.5 | 615.5  | 426.6  | 408.1  |
| 77.5° | 4318.7  | 5392.5  | 5981.5  | 5595.9  | 4984.4  | 4143.1  | 2599.2  | 1127.9 | 409.4  | 347.3  | 328.9  |
| 80°   | 1916.4  | 2249.2  | 2099.9  | 1871.5  | 1477.9  | 1215.1  | 793.7   | 500.6  | 264.1  | 268.1  | 257.5  |
| 82.5° | 644.5   | 681.5   | 663.0   | 659.0   | 594.3   | 520.4   | 336.8   | 216.6  | 147.9  | 171.7  | 167.7  |
| 85°   | 314.3   | 328.9   | 330.2   | 342.1   | 297.2   | 231.1   | 91.1    | 85.8   | 63.4   | 92.5   | 96.4   |
| 87.5° | 95.1    | 96.4    | 87.2    | 95.1    | 76.6    | 52.8    | 17.2    | 23.8   | 11.9   | 22.5   | 22.5   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 105°   | 107.5° | 110°   | 112.5° | 115°   | 117.5° | 120°   | 122.5° | 125°   | 127.5° | 130°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 |
| 2.5°  | 1736.7 | 1731.5 | 1722.2 | 1711.6 | 1709.0 | 1695.8 | 1691.8 | 1685.2 | 1681.3 | 1674.7 | 1669.4 |
| 5°    | 1720.9 | 1711.6 | 1701.1 | 1689.2 | 1689.2 | 1670.7 | 1662.8 | 1654.9 | 1654.9 | 1643.0 | 1637.7 |
| 7.5°  | 1736.7 | 1724.9 | 1713.0 | 1702.4 | 1706.4 | 1685.2 | 1677.3 | 1669.4 | 1668.1 | 1656.2 | 1650.9 |
| 10°   | 1781.6 | 1769.8 | 1755.2 | 1744.7 | 1740.7 | 1723.5 | 1714.3 | 1702.4 | 1694.5 | 1686.6 | 1678.6 |
| 12.5° | 1850.3 | 1834.5 | 1816.0 | 1793.5 | 1784.3 | 1769.8 | 1755.2 | 1739.4 | 1720.9 | 1713.0 | 1701.1 |
| 15°   | 1932.2 | 1905.8 | 1880.7 | 1853.0 | 1827.9 | 1813.3 | 1793.5 | 1768.4 | 1743.3 | 1732.8 | 1716.9 |
| 17.5° | 1999.6 | 1971.8 | 1936.2 | 1903.2 | 1858.2 | 1846.4 | 1818.6 | 1788.2 | 1747.3 | 1743.3 | 1719.6 |
| 20°   | 2056.4 | 2014.1 | 1970.5 | 1930.9 | 1862.2 | 1855.6 | 1821.3 | 1785.6 | 1727.5 | 1727.5 | 1698.4 |
| 22.5° | 2088.1 | 2029.9 | 1978.4 | 1925.6 | 1839.8 | 1834.5 | 1794.9 | 1752.6 | 1681.3 | 1683.9 | 1648.3 |
| 25°   | 2093.3 | 2023.3 | 1958.6 | 1895.2 | 1796.2 | 1786.9 | 1736.7 | 1690.5 | 1612.6 | 1607.3 | 1570.3 |
| 27.5° | 2072.2 | 1990.3 | 1915.0 | 1838.4 | 1731.5 | 1711.6 | 1656.2 | 1600.7 | 1524.1 | 1510.9 | 1471.3 |
| 30°   | 2023.3 | 1926.9 | 1842.4 | 1753.9 | 1641.6 | 1610.0 | 1551.8 | 1495.0 | 1417.1 | 1400.0 | 1363.0 |
| 32.5° | 1945.4 | 1835.8 | 1742.0 | 1653.5 | 1529.4 | 1489.8 | 1431.7 | 1374.9 | 1299.6 | 1286.4 | 1252.0 |
| 35°   | 1842.4 | 1719.6 | 1620.5 | 1526.7 | 1402.6 | 1361.7 | 1306.2 | 1256.0 | 1187.3 | 1182.0 | 1158.3 |
| 37.5° | 1713.0 | 1584.9 | 1479.2 | 1389.4 | 1271.8 | 1250.7 | 1193.9 | 1156.9 | 1100.2 | 1105.4 | 1093.6 |
| 40°   | 1566.4 | 1435.6 | 1335.2 | 1256.0 | 1154.3 | 1135.8 | 1101.5 | 1073.7 | 1024.9 | 1039.4 | 1040.7 |
| 42.5° | 1418.4 | 1287.7 | 1196.6 | 1125.2 | 1038.1 | 1026.2 | 1002.4 | 986.6  | 949.6  | 978.6  | 990.5  |
| 45°   | 1250.7 | 1129.2 | 1051.3 | 997.1  | 932.4  | 932.4  | 920.5  | 919.2  | 894.1  | 935.1  | 947.0  |
| 47.5° | 1088.3 | 993.2  | 939.0  | 906.0  | 861.1  | 882.2  | 878.3  | 888.8  | 870.4  | 912.6  | 923.2  |
| 50°   | 965.4  | 899.4  | 866.4  | 850.5  | 818.8  | 851.9  | 859.8  | 874.3  | 858.5  | 895.4  | 903.4  |
| 52.5° | 887.5  | 843.9  | 825.4  | 821.5  | 799.0  | 840.0  | 853.2  | 866.4  | 847.9  | 882.2  | 880.9  |
| 55°   | 843.9  | 814.9  | 808.3  | 816.2  | 799.0  | 838.7  | 851.9  | 861.1  | 845.3  | 869.0  | 867.7  |
| 57.5° | 828.1  | 812.2  | 816.2  | 828.1  | 816.2  | 849.2  | 855.8  | 866.4  | 850.5  | 861.1  | 866.4  |
| 60°   | 826.8  | 826.8  | 842.6  | 858.5  | 850.5  | 874.3  | 878.3  | 877.0  | 862.4  | 863.7  | 866.4  |
| 62.5° | 818.8  | 838.7  | 865.1  | 890.2  | 887.5  | 916.6  | 919.2  | 902.0  | 890.2  | 877.0  | 873.0  |
| 65°   | 793.7  | 826.8  | 865.1  | 899.4  | 904.7  | 949.6  | 954.9  | 937.7  | 929.8  | 907.3  | 890.2  |
| 67.5° | 738.3  | 780.5  | 825.4  | 867.7  | 877.0  | 937.7  | 949.6  | 956.2  | 960.2  | 945.6  | 923.2  |
| 70°   | 644.5  | 688.1  | 734.3  | 783.2  | 796.4  | 863.7  | 888.8  | 919.2  | 943.0  | 964.1  | 956.2  |
| 72.5° | 524.3  | 563.9  | 603.6  | 648.5  | 668.3  | 738.3  | 771.3  | 824.1  | 861.1  | 915.3  | 937.7  |
| 75°   | 416.0  | 439.8  | 463.6  | 491.3  | 507.2  | 575.8  | 616.8  | 680.2  | 730.4  | 805.6  | 855.8  |
| 77.5° | 327.5  | 339.4  | 351.3  | 363.2  | 369.8  | 408.1  | 441.1  | 504.5  | 562.6  | 657.7  | 731.7  |
| 80°   | 252.3  | 258.9  | 260.2  | 264.1  | 261.5  | 280.0  | 291.9  | 330.2  | 380.4  | 474.1  | 561.3  |
| 82.5° | 162.4  | 167.7  | 170.4  | 177.0  | 163.8  | 187.5  | 195.5  | 199.4  | 225.8  | 294.5  | 356.6  |
| 85°   | 91.1   | 92.5   | 93.8   | 96.4   | 77.9   | 101.7  | 103.0  | 96.4   | 93.8   | 121.5  | 137.4  |
| 87.5° | 22.5   | 21.1   | 22.5   | 22.5   | 9.2    | 21.1   | 21.1   | 14.5   | 10.6   | 19.8   | 15.8   |
| 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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| 30°   | 1269.2 | 1186.0 | 1151.7 | 1139.8 | 1129.2 | 1129.2 |
| 32.5° | 1178.1 | 1118.6 | 1106.8 | 1090.9 | 1063.2 | 1061.9 |
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| 40°   | 1044.7 | 1081.7 | 981.3  | 941.7  | 937.7  | 937.7  |
| 42.5° | 994.5  | 1020.9 | 977.3  | 954.9  | 954.9  | 956.2  |
| 45°   | 941.7  | 964.1  | 986.6  | 966.8  | 973.4  | 974.7  |
| 47.5° | 904.7  | 949.6  | 986.6  | 969.4  | 982.6  | 990.5  |
| 50°   | 870.4  | 936.4  | 966.8  | 966.8  | 981.3  | 982.6  |
| 52.5° | 862.4  | 917.9  | 948.3  | 962.8  | 964.1  | 957.5  |
| 55°   | 863.7  | 903.4  | 933.7  | 952.2  | 944.3  | 944.3  |
| 57.5° | 862.4  | 895.4  | 921.9  | 928.5  | 932.4  | 932.4  |
| 60°   | 863.7  | 884.9  | 906.0  | 903.4  | 916.6  | 916.6  |
| 62.5° | 867.7  | 870.4  | 880.9  | 878.3  | 898.1  | 898.1  |
| 65°   | 877.0  | 851.9  | 845.3  | 847.9  | 871.7  | 870.4  |
| 67.5° | 894.1  | 826.8  | 805.6  | 807.0  | 841.3  | 836.0  |
| 70°   | 919.2  | 792.4  | 760.7  | 752.8  | 810.9  | 801.7  |
| 72.5° | 927.1  | 752.8  | 702.6  | 694.7  | 729.0  | 702.6  |
| 75°   | 890.2  | 721.1  | 640.5  | 614.1  | 599.6  | 591.7  |
| 77.5° | 793.7  | 701.3  | 575.8  | 520.4  | 497.9  | 492.6  |
| 80°   | 657.7  | 660.4  | 491.3  | 425.3  | 493.9  | 492.6  |
| 82.5° | 496.6  | 570.5  | 393.6  | 368.5  | 357.9  | 298.5  |
| 85°   | 240.4  | 429.2  | 302.4  | 253.6  | 151.9  | 144.0  |
| 87.5° | 21.1   | 179.6  | 174.3  | 113.6  | 51.5   | 48.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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