

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: P196277

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P196277  
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-600  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(5) 70 CRI, 4000K, 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: 21237.5 lumens  
Efficiency: N/A  
Efficacy: 131.1 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

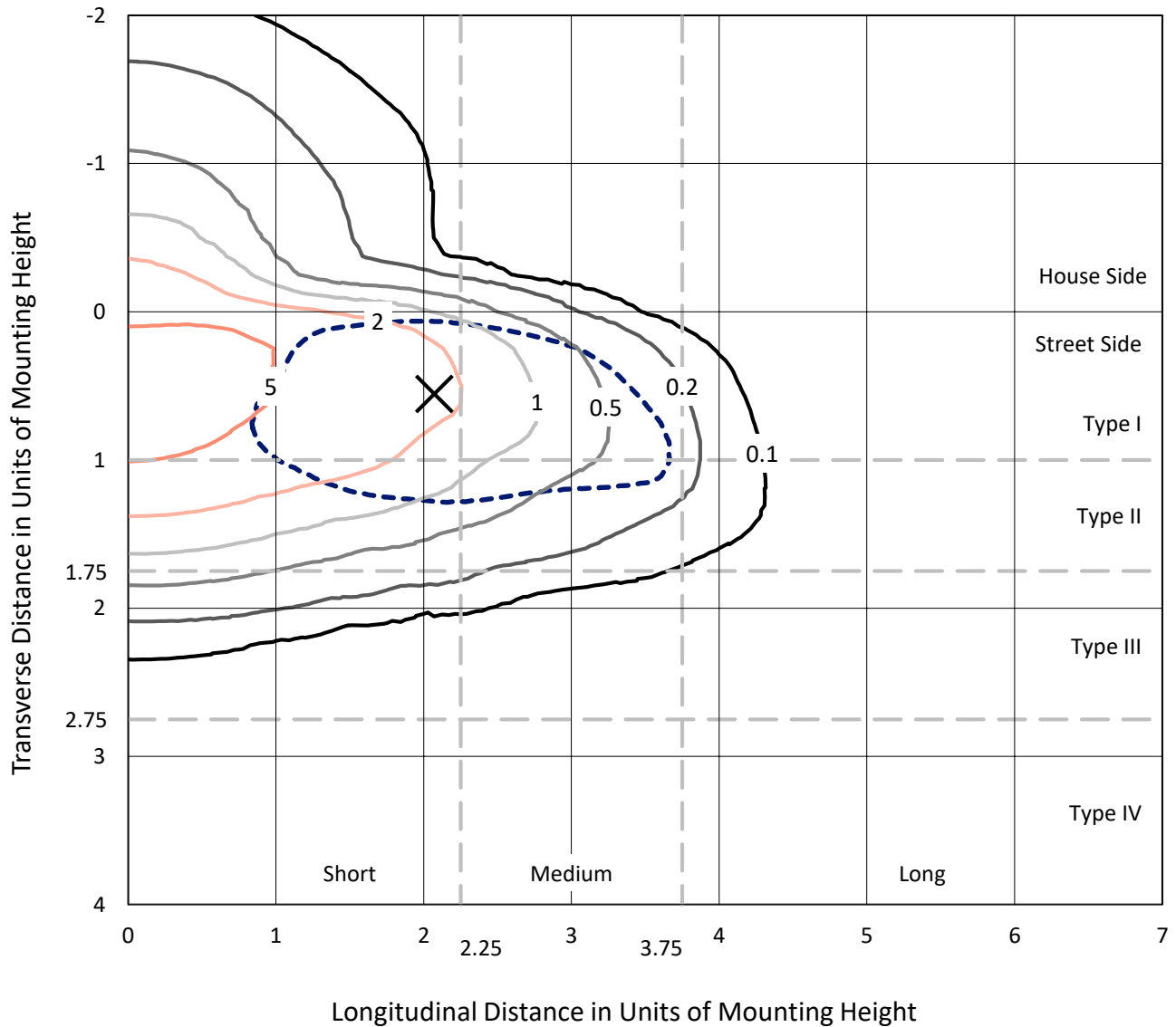


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### Iso-Footcandle Lines of Horizontal Illumination

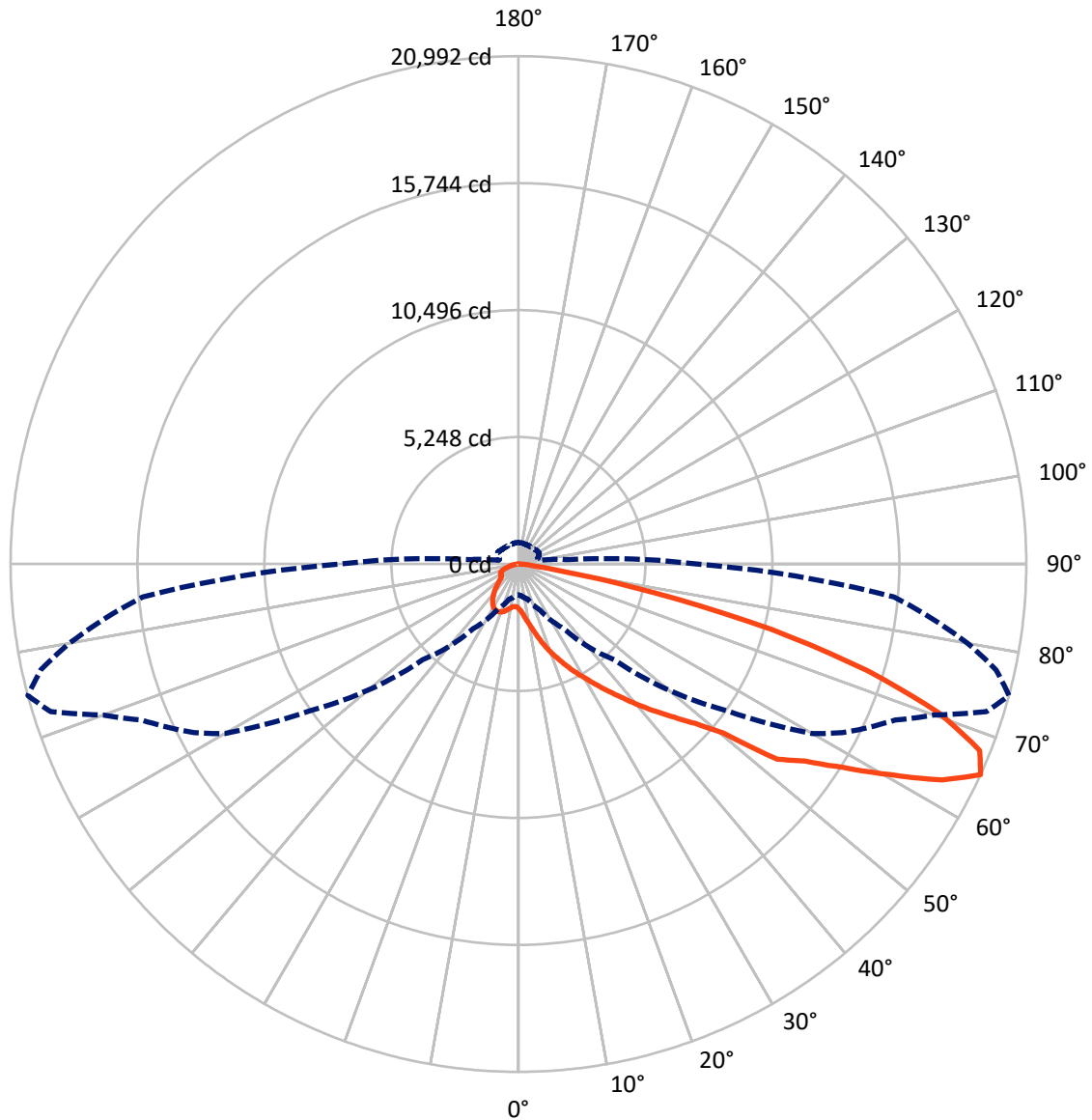
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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    | 3191.2   | 0.0    | 3191.2  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 18046.2  | 0.0    | 18046.2 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 21237.5  | 0.0    | 21237.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 217.2   | 1.0       |
| 10°-20°   | 829.7   | 3.9       |
| 20°-30°   | 1674.5  | 7.9       |
| 30°-40°   | 2843.7  | 13.4      |
| 40°-50°   | 3966.3  | 18.7      |
| 50°-60°   | 4861.2  | 22.9      |
| 60°-70°   | 4573.8  | 21.5      |
| 70°-80°   | 2005.6  | 9.4       |
| 80°-90°   | 265.4   | 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°    | 21237.5 | 100.0     |
| 0°-180°   | 21237.5 | 100.0     |



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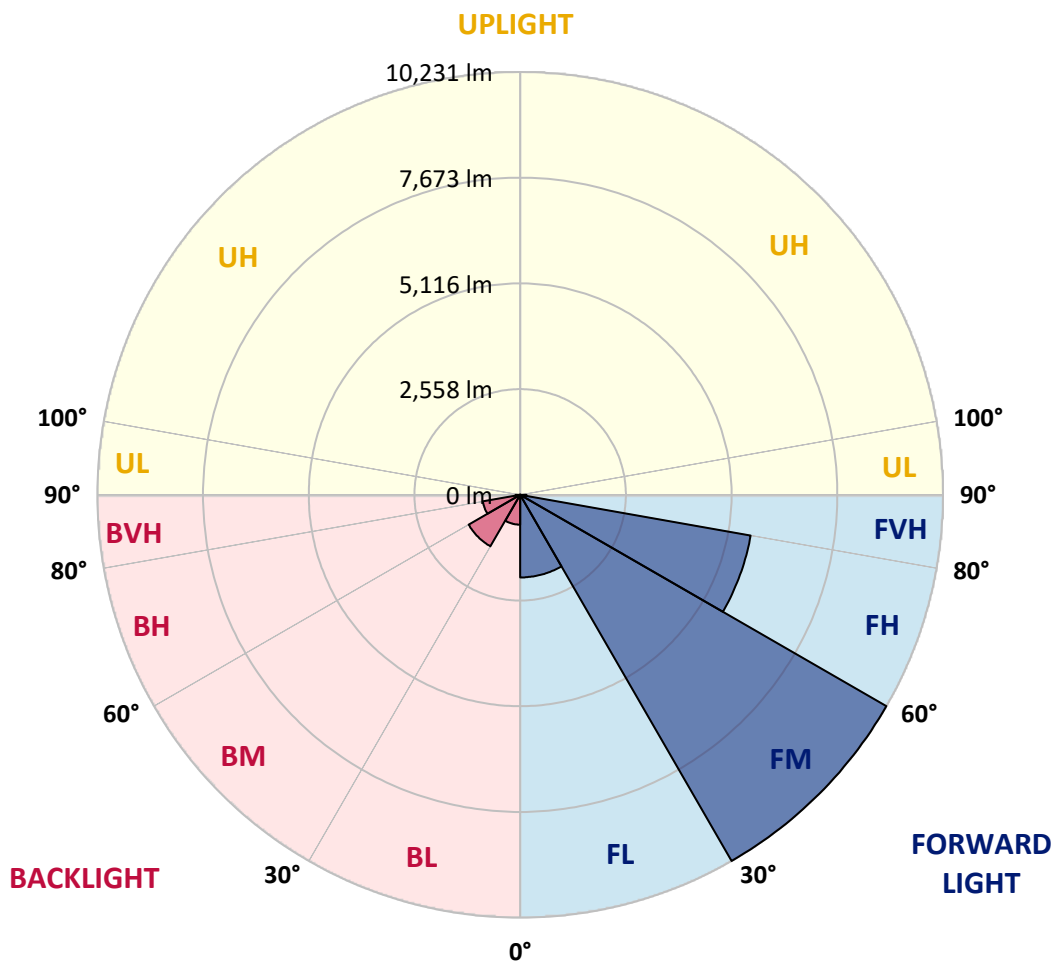
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1999.0  | 9.4       |                         |      |         |
| FM   | (30°-60°)   | 10231.3 | 48.2      |                         |      |         |
| FH   | (60°-80°)   | 5662.1  | 26.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 153.8   | 0.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 722.4   | 3.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1440.1  | 6.8       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 917.2   | 4.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 111.5   | 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°    | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1  | 1840.1  | 1840.1  | 1840.1  | 1840.1  | 1840.1  |
| 2.5°  | 2317.0 | 2290.0 | 2292.7 | 2254.9 | 2199.4 | 2138.7  | 2088.7  | 2061.7  | 2038.7  | 2032.0  | 1994.1  |
| 5°    | 3030.4 | 2996.5 | 2984.5 | 2897.9 | 2768.2 | 2614.3  | 2461.5  | 2402.1  | 2353.5  | 2323.7  | 2250.8  |
| 7.5°  | 3614.0 | 3596.4 | 3580.2 | 3500.5 | 3372.2 | 3174.9  | 2929.0  | 2841.2  | 2760.1  | 2671.0  | 2583.2  |
| 10°   | 4011.2 | 4004.4 | 3997.7 | 3942.2 | 3835.6 | 3664.0  | 3399.2  | 3303.2  | 3201.9  | 3088.5  | 2973.6  |
| 12.5° | 4311.1 | 4311.1 | 4316.5 | 4270.6 | 4205.8 | 4073.4  | 3832.9  | 3743.7  | 3641.0  | 3522.1  | 3391.1  |
| 15°   | 4512.4 | 4517.9 | 4546.2 | 4559.7 | 4525.9 | 4440.8  | 4230.1  | 4151.7  | 4054.5  | 3936.9  | 3807.2  |
| 17.5° | 4646.1 | 4657.0 | 4698.8 | 4743.4 | 4786.7 | 4756.9  | 4600.2  | 4527.3  | 4439.5  | 4331.4  | 4209.7  |
| 20°   | 4956.9 | 4943.4 | 4944.7 | 4931.2 | 4994.8 | 5017.7  | 4931.2  | 4870.5  | 4800.2  | 4701.6  | 4590.8  |
| 22.5° | 5609.5 | 5583.8 | 5517.6 | 5348.7 | 5271.7 | 5263.6  | 5212.2  | 5179.8  | 5125.8  | 5063.6  | 4952.8  |
| 25°   | 6460.7 | 6430.9 | 6299.8 | 6021.5 | 5791.8 | 5579.8  | 5485.2  | 5464.9  | 5429.8  | 5387.9  | 5308.2  |
| 27.5° | 7340.1 | 7307.7 | 7138.9 | 6787.6 | 6487.7 | 6059.3  | 5764.8  | 5737.8  | 5705.4  | 5687.8  | 5650.0  |
| 30°   | 8114.3 | 8079.2 | 7912.9 | 7556.3 | 7194.2 | 6683.6  | 6141.8  | 6047.2  | 5991.8  | 5997.3  | 5975.6  |
| 32.5° | 8793.8 | 8762.8 | 8576.3 | 8212.9 | 7845.4 | 7349.6  | 6630.9  | 6483.6  | 6359.3  | 6313.3  | 6329.5  |
| 35°   | 9364.0 | 9335.6 | 9131.6 | 8765.5 | 8395.3 | 7983.2  | 7260.4  | 7038.8  | 6836.2  | 6709.2  | 6694.3  |
| 37.5° | 9699.0 | 9682.8 | 9539.6 | 9228.9 | 8861.4 | 8558.7  | 7965.6  | 7719.8  | 7421.2  | 7236.0  | 7155.0  |
| 40°   | 9680.1 | 9697.7 | 9673.3 | 9532.9 | 9247.8 | 9027.5  | 8700.6  | 8457.5  | 8165.6  | 7890.0  | 7725.1  |
| 42.5° | 9404.5 | 9428.8 | 9538.2 | 9611.2 | 9534.2 | 9400.4  | 9342.3  | 9161.3  | 8899.2  | 8607.4  | 8379.1  |
| 45°   | 9026.2 | 9047.8 | 9189.7 | 9453.1 | 9673.3 | 9711.2  | 9904.4  | 9813.9  | 9592.3  | 9343.7  | 9092.4  |
| 47.5° | 8446.6 | 8488.5 | 8653.3 | 9072.1 | 9596.3 | 9961.1  | 10375.9 | 10417.7 | 10289.5 | 10084.0 | 9849.0  |
| 50°   | 7607.6 | 7663.0 | 7894.0 | 8489.9 | 9304.6 | 10217.8 | 11077.0 | 11236.5 | 11185.1 | 10977.1 | 10739.3 |
| 52.5° | 6748.4 | 6803.7 | 7111.8 | 7745.5 | 8834.4 | 10323.2 | 11767.4 | 12175.5 | 12470.0 | 12684.8 | 12726.6 |
| 55°   | 5854.0 | 5916.1 | 6253.9 | 6983.5 | 8207.4 | 10189.4 | 12260.6 | 12724.0 | 13022.6 | 13246.8 | 13337.3 |
| 57.5° | 4844.8 | 4915.1 | 5242.0 | 5979.7 | 7321.3 | 9651.7  | 12809.1 | 13465.7 | 13910.2 | 14256.0 | 14450.6 |
| 60°   | 3686.9 | 3774.8 | 4113.9 | 4857.0 | 6156.6 | 8622.2  | 13053.6 | 14025.0 | 14731.6 | 15250.4 | 15558.5 |
| 62.5° | 2337.2 | 2426.4 | 2779.1 | 3550.5 | 4831.3 | 7215.8  | 12361.8 | 13779.1 | 14984.2 | 15751.6 | 16316.4 |
| 65°   | 1275.4 | 1314.6 | 1510.5 | 2091.4 | 3257.3 | 5598.6  | 10608.3 | 12279.5 | 14015.6 | 15103.2 | 15970.5 |
| 67.5° | 956.6  | 961.9  | 982.2  | 1124.0 | 1734.7 | 3780.2  | 8294.0  | 9824.6  | 11752.6 | 13152.3 | 14188.4 |
| 70°   | 837.6  | 837.6  | 840.4  | 841.7  | 941.6  | 2048.2  | 5619.0  | 7028.1  | 8795.2  | 10211.1 | 11498.6 |
| 72.5° | 751.2  | 743.1  | 740.4  | 724.1  | 737.6  | 1049.8  | 3058.7  | 4324.6  | 5814.9  | 7403.6  | 8604.7  |
| 75°   | 648.4  | 647.1  | 647.1  | 631.0  | 639.0  | 739.0   | 1326.7  | 2075.2  | 3230.3  | 4709.7  | 5891.8  |
| 77.5° | 560.7  | 551.3  | 552.6  | 543.1  | 568.8  | 566.1   | 629.6   | 855.2   | 1406.5  | 2473.7  | 3454.6  |
| 80°   | 462.1  | 455.3  | 459.3  | 454.0  | 494.5  | 418.8   | 424.2   | 522.8   | 698.5   | 1084.8  | 1529.3  |
| 82.5° | 341.8  | 344.5  | 370.2  | 367.4  | 416.1  | 282.3   | 310.8   | 390.5   | 470.1   | 540.4   | 587.7   |
| 85°   | 200.0  | 204.0  | 266.2  | 279.7  | 305.4  | 148.6   | 190.5   | 232.4   | 262.1   | 290.5   | 302.6   |
| 87.5° | 21.6   | 28.3   | 148.6  | 152.6  | 136.5  | 44.6    | 77.0    | 97.3    | 104.0   | 110.8   | 97.3    |
| 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):**

|       | 67.5°   | 70°     | 72.5°   | 75°     | 77.5°   | 80°     | 85°     | 90°    | 95°    | 100°   | 102.5° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 1840.1  | 1840.1  | 1840.1  | 1840.1  | 1840.1  | 1840.1  | 1840.1  | 1840.1 | 1840.1 | 1840.1 | 1840.1 |
| 2.5°  | 1982.0  | 1964.4  | 1945.4  | 1934.7  | 1915.8  | 1899.5  | 1869.9  | 1845.5 | 1818.5 | 1799.6 | 1791.5 |
| 5°    | 2214.4  | 2172.4  | 2127.8  | 2095.4  | 2054.9  | 2019.8  | 1952.2  | 1871.2 | 1845.5 | 1791.5 | 1778.0 |
| 7.5°  | 2517.0  | 2441.3  | 2365.7  | 2303.5  | 2233.2  | 2175.2  | 2061.7  | 1915.8 | 1896.9 | 1810.4 | 1791.5 |
| 10°   | 2872.2  | 2761.5  | 2649.3  | 2553.5  | 2450.8  | 2361.6  | 2194.0  | 1988.7 | 1968.5 | 1857.7 | 1838.8 |
| 12.5° | 3269.5  | 3134.4  | 2989.8  | 2846.6  | 2725.0  | 2599.4  | 2371.1  | 2102.2 | 2069.7 | 1938.7 | 1913.0 |
| 15°   | 3678.8  | 3533.0  | 3365.4  | 3192.4  | 3042.5  | 2876.3  | 2588.6  | 2250.8 | 2191.4 | 2037.3 | 2002.2 |
| 17.5° | 4082.8  | 3924.8  | 3749.1  | 3555.9  | 3380.2  | 3181.7  | 2823.7  | 2417.0 | 2314.3 | 2134.6 | 2090.0 |
| 20°   | 4473.3  | 4312.5  | 4127.4  | 3938.3  | 3719.3  | 3492.4  | 3064.1  | 2580.5 | 2423.8 | 2215.7 | 2157.6 |
| 22.5° | 4828.5  | 4690.7  | 4505.7  | 4288.1  | 4066.6  | 3811.2  | 3308.6  | 2744.0 | 2519.6 | 2277.8 | 2203.5 |
| 25°   | 5202.8  | 5077.1  | 4893.4  | 4684.0  | 4426.0  | 4142.2  | 3561.3  | 2899.3 | 2596.7 | 2311.6 | 2219.7 |
| 27.5° | 5581.1  | 5473.0  | 5300.1  | 5079.9  | 4802.9  | 4488.1  | 3818.0  | 3042.5 | 2658.9 | 2322.4 | 2211.6 |
| 30°   | 5985.1  | 5901.3  | 5741.8  | 5496.0  | 5216.3  | 4867.7  | 4097.6  | 3183.0 | 2698.0 | 2307.6 | 2175.2 |
| 32.5° | 6367.4  | 6364.7  | 6222.8  | 5967.5  | 5666.2  | 5282.5  | 4392.1  | 3324.9 | 2718.3 | 2265.6 | 2111.7 |
| 35°   | 6764.6  | 6820.0  | 6713.2  | 6470.1  | 6152.5  | 5727.0  | 4717.7  | 3476.2 | 2719.6 | 2191.4 | 2029.2 |
| 37.5° | 7215.8  | 7314.5  | 7267.1  | 7036.2  | 6702.5  | 6233.7  | 5100.1  | 3646.4 | 2711.5 | 2088.7 | 1909.0 |
| 40°   | 7729.2  | 7864.3  | 7863.0  | 7668.4  | 7311.7  | 6801.1  | 5544.6  | 3836.9 | 2692.6 | 1960.4 | 1767.1 |
| 42.5° | 8316.9  | 8477.7  | 8522.3  | 8330.4  | 7969.7  | 7421.2  | 6053.9  | 4046.3 | 2662.8 | 1833.3 | 1617.2 |
| 45°   | 8989.7  | 9131.6  | 9215.4  | 9037.1  | 8674.9  | 8096.7  | 6639.0  | 4284.1 | 2626.4 | 1669.9 | 1445.6 |
| 47.5° | 9709.8  | 9874.6  | 10000.3 | 9847.6  | 9461.3  | 8866.8  | 7332.0  | 4590.8 | 2612.9 | 1483.4 | 1260.5 |
| 50°   | 10602.9 | 10773.1 | 11044.6 | 10975.8 | 10763.6 | 10285.4 | 8797.9  | 5314.9 | 2618.2 | 1306.4 | 1105.1 |
| 52.5° | 12818.5 | 13209.0 | 13552.2 | 13399.5 | 12895.5 | 12075.4 | 9989.5  | 5717.6 | 2504.8 | 1161.9 | 997.1  |
| 55°   | 13487.3 | 13930.4 | 14437.1 | 14373.6 | 13889.9 | 13063.1 | 10931.2 | 6053.9 | 2395.3 | 1056.5 | 926.8  |
| 57.5° | 14657.2 | 15180.2 | 15888.1 | 15874.6 | 15281.5 | 14350.6 | 12143.0 | 6456.6 | 2348.1 | 995.7  | 891.7  |
| 60°   | 15896.1 | 16562.2 | 17540.3 | 17693.1 | 17048.6 | 16079.9 | 13575.1 | 6951.1 | 2354.8 | 961.9  | 871.5  |
| 62.5° | 16801.4 | 17778.2 | 19200.8 | 19657.4 | 18898.2 | 17830.9 | 15061.2 | 7445.5 | 2314.3 | 922.7  | 847.1  |
| 65°   | 16856.8 | 18263.2 | 20281.6 | 20992.3 | 20223.5 | 18852.3 | 15585.5 | 7348.3 | 2071.2 | 870.0  | 807.9  |
| 67.5° | 15505.7 | 17337.7 | 19789.8 | 20569.4 | 19783.1 | 18222.6 | 14666.8 | 6424.1 | 1683.4 | 778.2  | 740.4  |
| 70°   | 12914.4 | 15041.0 | 17586.3 | 18455.1 | 17805.2 | 16225.8 | 12764.5 | 5131.2 | 1257.8 | 656.6  | 639.0  |
| 72.5° | 9980.0  | 11963.3 | 14275.0 | 15078.8 | 14581.7 | 13192.8 | 10067.9 | 3739.6 | 898.5  | 532.3  | 518.8  |
| 75°   | 7134.8  | 8823.6  | 10501.5 | 10808.2 | 10317.8 | 9042.4  | 6532.3  | 2335.9 | 629.6  | 436.4  | 417.5  |
| 77.5° | 4417.8  | 5516.3  | 6118.8  | 5724.3  | 5098.8  | 4238.2  | 2658.9  | 1153.8 | 418.8  | 355.3  | 336.4  |
| 80°   | 1960.4  | 2300.8  | 2148.1  | 1914.5  | 1511.8  | 1243.0  | 811.9   | 512.1  | 270.2  | 274.3  | 263.4  |
| 82.5° | 659.3   | 697.1   | 678.2   | 674.1   | 607.9   | 532.3   | 344.5   | 221.6  | 151.3  | 175.6  | 171.5  |
| 85°   | 321.5   | 336.4   | 337.8   | 350.0   | 304.0   | 236.4   | 93.2    | 87.8   | 64.9   | 94.6   | 98.6   |
| 87.5° | 97.3    | 98.6    | 89.2    | 97.3    | 78.4    | 54.0    | 17.6    | 24.3   | 12.2   | 23.0   | 23.0   |
| 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):**

|       | 105°   | 107.5° | 110°   | 112.5° | 115°   | 117.5° | 120°   | 122.5° | 125°   | 127.5° | 130°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 |
| 2.5°  | 1776.6 | 1771.2 | 1761.7 | 1750.9 | 1748.2 | 1734.7 | 1730.6 | 1723.9 | 1719.9 | 1713.1 | 1707.7 |
| 5°    | 1760.4 | 1750.9 | 1740.1 | 1728.0 | 1728.0 | 1709.0 | 1701.0 | 1692.9 | 1692.9 | 1680.7 | 1675.3 |
| 7.5°  | 1776.6 | 1764.5 | 1752.3 | 1741.5 | 1745.6 | 1723.9 | 1715.8 | 1707.7 | 1706.4 | 1694.2 | 1688.8 |
| 10°   | 1822.5 | 1810.4 | 1795.5 | 1784.7 | 1780.7 | 1763.1 | 1753.6 | 1741.5 | 1733.4 | 1725.3 | 1717.1 |
| 12.5° | 1892.8 | 1876.6 | 1857.7 | 1834.7 | 1825.3 | 1810.4 | 1795.5 | 1779.3 | 1760.4 | 1752.3 | 1740.1 |
| 15°   | 1976.5 | 1949.5 | 1923.9 | 1895.5 | 1869.9 | 1854.9 | 1834.7 | 1809.0 | 1783.3 | 1772.6 | 1756.3 |
| 17.5° | 2045.5 | 2017.1 | 1980.6 | 1946.9 | 1900.8 | 1888.8 | 1860.3 | 1829.2 | 1787.4 | 1783.3 | 1759.1 |
| 20°   | 2103.6 | 2060.3 | 2015.7 | 1975.2 | 1904.9 | 1898.2 | 1863.1 | 1826.6 | 1767.1 | 1767.1 | 1737.4 |
| 22.5° | 2136.0 | 2076.5 | 2023.8 | 1969.8 | 1882.0 | 1876.6 | 1836.1 | 1792.8 | 1719.9 | 1722.5 | 1686.1 |
| 25°   | 2141.3 | 2069.7 | 2003.6 | 1938.7 | 1837.4 | 1827.9 | 1776.6 | 1729.3 | 1649.6 | 1644.2 | 1606.3 |
| 27.5° | 2119.8 | 2036.0 | 1959.0 | 1880.6 | 1771.2 | 1750.9 | 1694.2 | 1637.4 | 1559.1 | 1545.6 | 1505.1 |
| 30°   | 2069.7 | 1971.1 | 1884.7 | 1794.2 | 1679.3 | 1647.0 | 1587.4 | 1529.3 | 1449.6 | 1432.1 | 1394.3 |
| 32.5° | 1990.0 | 1877.9 | 1782.0 | 1691.4 | 1564.5 | 1524.0 | 1464.6 | 1406.5 | 1329.4 | 1315.9 | 1280.7 |
| 35°   | 1884.7 | 1759.1 | 1657.7 | 1561.7 | 1434.8 | 1393.0 | 1336.2 | 1284.8 | 1214.5 | 1209.1 | 1184.9 |
| 37.5° | 1752.3 | 1621.3 | 1513.1 | 1421.3 | 1301.0 | 1279.4 | 1221.3 | 1183.5 | 1125.5 | 1130.8 | 1118.7 |
| 40°   | 1602.4 | 1468.5 | 1365.8 | 1284.8 | 1180.8 | 1161.9 | 1126.8 | 1098.3 | 1048.4 | 1063.3 | 1064.6 |
| 42.5° | 1451.0 | 1317.3 | 1224.1 | 1151.0 | 1061.9 | 1049.8 | 1025.4 | 1009.2 | 971.4  | 1001.1 | 1013.2 |
| 45°   | 1279.4 | 1155.1 | 1075.4 | 1020.0 | 953.8  | 953.8  | 941.6  | 940.3  | 914.6  | 956.6  | 968.7  |
| 47.5° | 1113.3 | 1016.0 | 960.6  | 926.8  | 880.9  | 902.4  | 898.5  | 909.2  | 890.4  | 933.5  | 944.4  |
| 50°   | 987.6  | 920.0  | 886.3  | 870.0  | 837.6  | 871.5  | 879.5  | 894.4  | 878.2  | 916.0  | 924.1  |
| 52.5° | 907.9  | 863.3  | 844.3  | 840.4  | 817.3  | 859.3  | 872.8  | 886.3  | 867.4  | 902.4  | 901.1  |
| 55°   | 863.3  | 833.6  | 826.9  | 834.9  | 817.3  | 857.9  | 871.5  | 880.9  | 864.7  | 888.9  | 887.6  |
| 57.5° | 847.1  | 830.8  | 834.9  | 847.1  | 834.9  | 868.7  | 875.4  | 886.3  | 870.0  | 880.9  | 886.3  |
| 60°   | 845.8  | 845.8  | 861.9  | 878.2  | 870.0  | 894.4  | 898.5  | 897.1  | 882.2  | 883.5  | 886.3  |
| 62.5° | 837.6  | 857.9  | 885.0  | 910.6  | 907.9  | 937.6  | 940.3  | 922.7  | 910.6  | 897.1  | 893.0  |
| 65°   | 811.9  | 845.8  | 885.0  | 920.0  | 925.5  | 971.4  | 976.8  | 959.2  | 951.1  | 928.1  | 910.6  |
| 67.5° | 755.2  | 798.4  | 844.3  | 887.6  | 897.1  | 959.2  | 971.4  | 978.1  | 982.2  | 967.3  | 944.4  |
| 70°   | 659.3  | 703.9  | 751.2  | 801.2  | 814.7  | 883.5  | 909.2  | 940.3  | 964.6  | 986.2  | 978.1  |
| 72.5° | 536.3  | 576.8  | 617.5  | 663.4  | 683.6  | 755.2  | 789.0  | 843.0  | 880.9  | 936.3  | 959.2  |
| 75°   | 425.5  | 449.9  | 474.2  | 502.6  | 518.8  | 589.0  | 631.0  | 695.8  | 747.2  | 824.1  | 875.4  |
| 77.5° | 335.0  | 347.2  | 359.4  | 371.5  | 378.3  | 417.5  | 451.2  | 516.1  | 575.5  | 672.8  | 748.5  |
| 80°   | 258.1  | 264.8  | 266.2  | 270.2  | 267.5  | 286.4  | 298.6  | 337.8  | 389.1  | 485.0  | 574.2  |
| 82.5° | 166.1  | 171.5  | 174.3  | 181.1  | 167.6  | 191.8  | 200.0  | 204.0  | 231.0  | 301.3  | 364.8  |
| 85°   | 93.2   | 94.6   | 96.0   | 98.6   | 79.7   | 104.0  | 105.4  | 98.6   | 96.0   | 124.3  | 140.6  |
| 87.5° | 23.0   | 21.6   | 23.0   | 23.0   | 9.4    | 21.6   | 21.6   | 14.8   | 10.8   | 20.3   | 16.2   |
| 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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|       | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 |
| 2.5°  | 1695.5 | 1692.9 | 1694.2 | 1687.5 | 1684.7 | 1686.1 |
| 5°    | 1668.5 | 1663.1 | 1663.1 | 1659.0 | 1653.7 | 1653.7 |
| 7.5°  | 1680.7 | 1669.9 | 1665.8 | 1657.7 | 1649.6 | 1650.9 |
| 10°   | 1699.6 | 1680.7 | 1667.2 | 1655.0 | 1645.5 | 1645.5 |
| 12.5° | 1711.7 | 1677.9 | 1657.7 | 1641.5 | 1630.7 | 1630.7 |
| 15°   | 1714.5 | 1663.1 | 1633.3 | 1615.9 | 1605.0 | 1605.0 |
| 17.5° | 1698.2 | 1633.3 | 1595.6 | 1572.6 | 1560.4 | 1563.2 |
| 20°   | 1657.7 | 1578.0 | 1533.4 | 1509.1 | 1497.0 | 1498.3 |
| 22.5° | 1594.2 | 1502.3 | 1451.0 | 1422.6 | 1410.4 | 1410.4 |
| 25°   | 1507.7 | 1407.8 | 1352.3 | 1329.4 | 1318.6 | 1318.6 |
| 27.5° | 1409.1 | 1306.4 | 1257.8 | 1240.2 | 1233.5 | 1233.5 |
| 30°   | 1298.3 | 1213.2 | 1178.1 | 1166.0 | 1155.1 | 1155.1 |
| 32.5° | 1205.1 | 1144.3 | 1132.2 | 1115.9 | 1087.6 | 1086.3 |
| 35°   | 1130.8 | 1124.0 | 1114.6 | 1065.9 | 1025.4 | 1020.0 |
| 37.5° | 1090.3 | 1130.8 | 1071.3 | 987.6  | 955.1  | 953.8  |
| 40°   | 1068.7 | 1106.5 | 1003.8 | 963.3  | 959.2  | 959.2  |
| 42.5° | 1017.3 | 1044.3 | 999.7  | 976.8  | 976.8  | 978.1  |
| 45°   | 963.3  | 986.2  | 1009.2 | 989.0  | 995.7  | 997.1  |
| 47.5° | 925.5  | 971.4  | 1009.2 | 991.6  | 1005.2 | 1013.2 |
| 50°   | 890.4  | 957.9  | 989.0  | 989.0  | 1003.8 | 1005.2 |
| 52.5° | 882.2  | 939.0  | 970.1  | 984.9  | 986.2  | 979.5  |
| 55°   | 883.5  | 924.1  | 955.1  | 974.1  | 966.0  | 966.0  |
| 57.5° | 882.2  | 916.0  | 943.1  | 949.8  | 953.8  | 953.8  |
| 60°   | 883.5  | 905.2  | 926.8  | 924.1  | 937.6  | 937.6  |
| 62.5° | 887.6  | 890.4  | 901.1  | 898.5  | 918.7  | 918.7  |
| 65°   | 897.1  | 871.5  | 864.7  | 867.4  | 891.7  | 890.4  |
| 67.5° | 914.6  | 845.8  | 824.1  | 825.5  | 860.6  | 855.2  |
| 70°   | 940.3  | 810.6  | 778.2  | 770.1  | 829.5  | 820.1  |
| 72.5° | 948.4  | 770.1  | 718.7  | 710.6  | 745.7  | 718.7  |
| 75°   | 910.6  | 737.6  | 655.2  | 628.2  | 613.4  | 605.3  |
| 77.5° | 811.9  | 717.4  | 589.0  | 532.3  | 509.3  | 503.9  |
| 80°   | 672.8  | 675.6  | 502.6  | 435.1  | 505.2  | 503.9  |
| 82.5° | 508.0  | 583.6  | 402.6  | 377.0  | 366.1  | 305.4  |
| 85°   | 245.9  | 439.1  | 309.3  | 259.4  | 155.4  | 147.3  |
| 87.5° | 21.6   | 183.7  | 178.3  | 116.2  | 52.7   | 50.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)