

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: P195335

Luminaire Tested: **NAV-AF-05-D-UNV-T2R-7060-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P195335  
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-7060-1200  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(5) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34566 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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

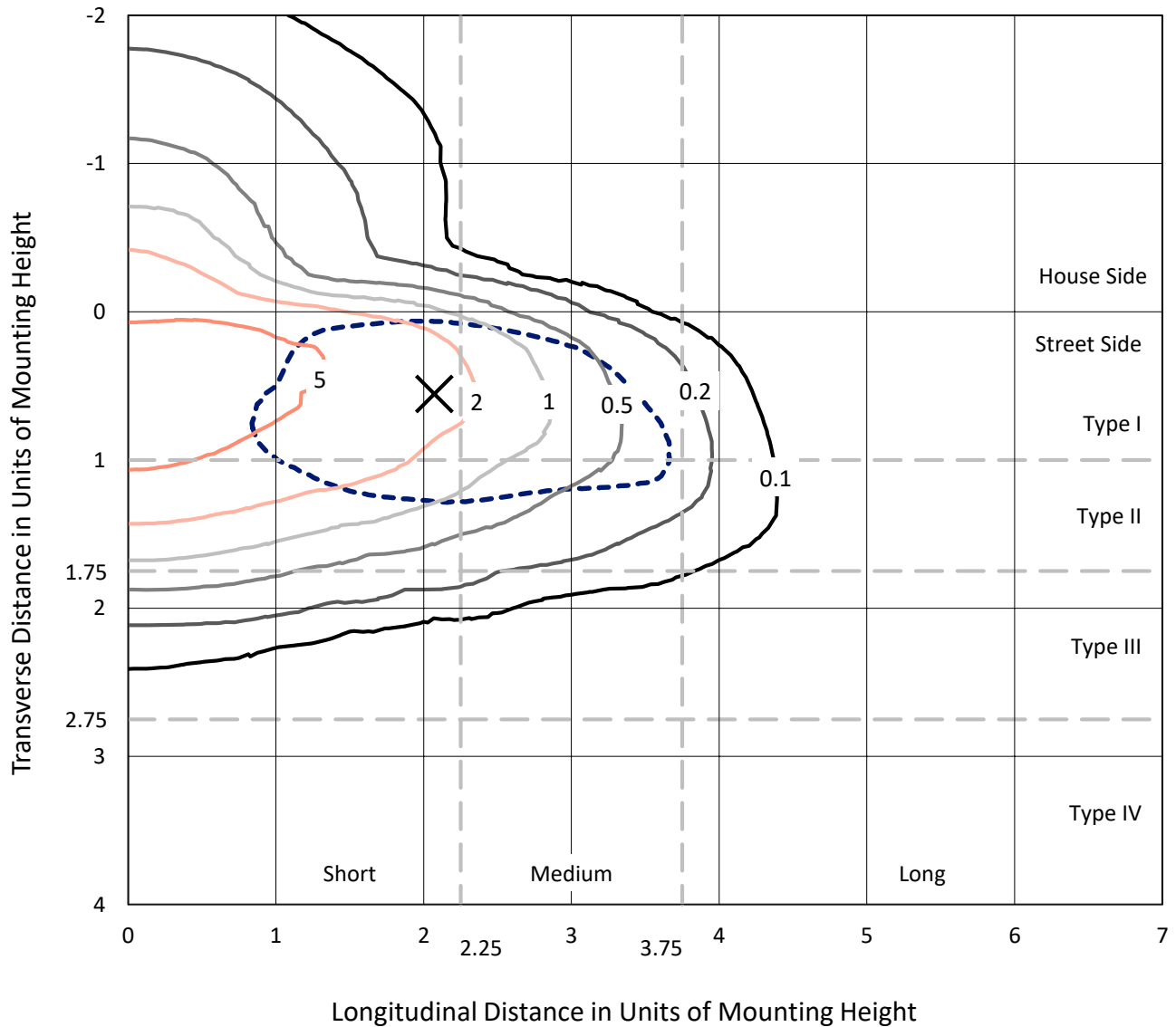


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### Iso-Footcandle Lines of Horizontal Illumination

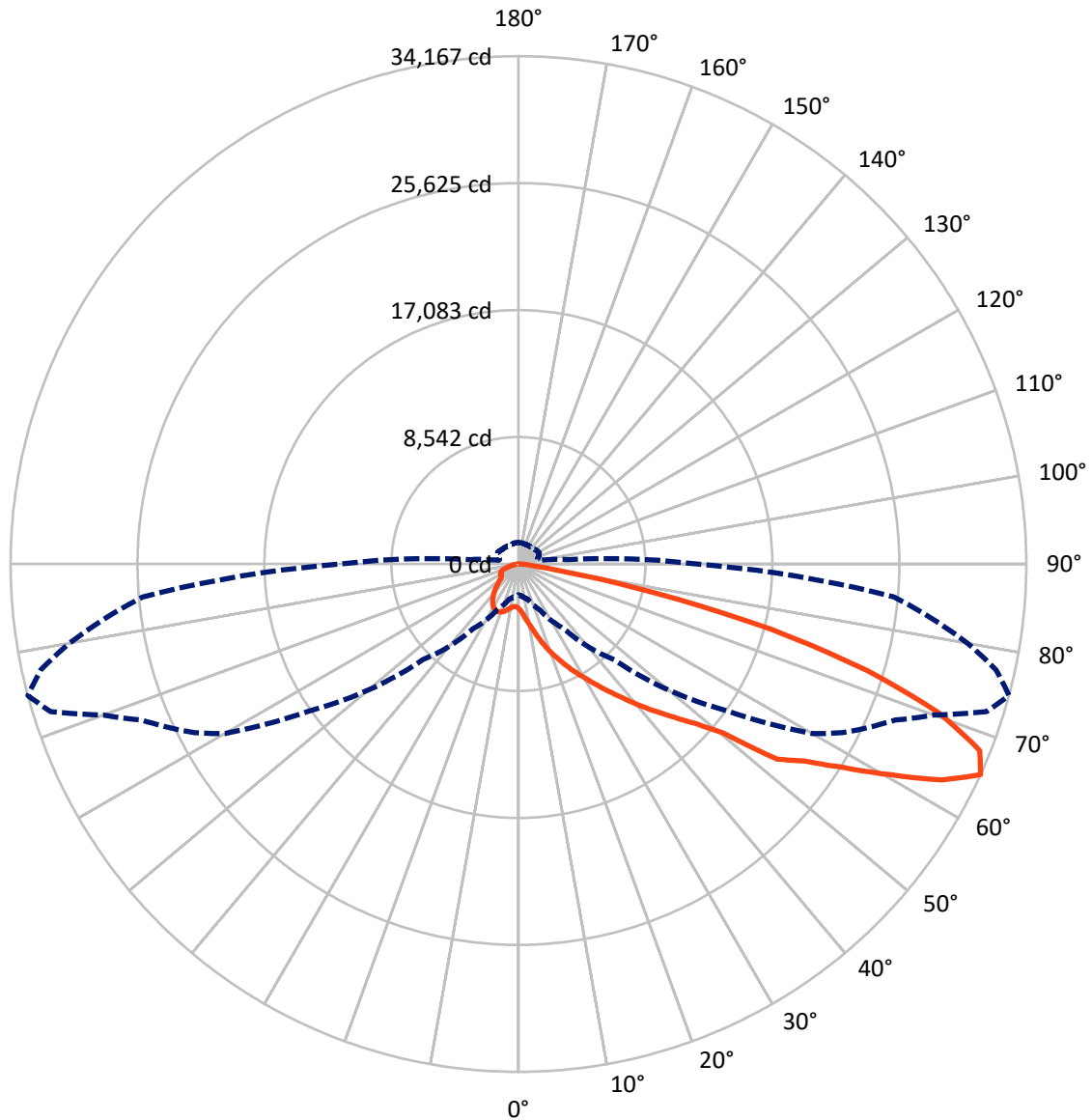
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 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    | 5194.1   | 0.0    | 5194.1  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 29371.9  | 0.0    | 29371.9 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 34566.0  | 0.0    | 34566.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 353.6   | 1.0       |
| 10°-20°   | 1350.5  | 3.9       |
| 20°-30°   | 2725.4  | 7.9       |
| 30°-40°   | 4628.5  | 13.4      |
| 40°-50°   | 6455.6  | 18.7      |
| 50°-60°   | 7912.1  | 22.9      |
| 60°-70°   | 7444.2  | 21.5      |
| 70°-80°   | 3264.2  | 9.4       |
| 80°-90°   | 431.9   | 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°    | 34566.0 | 100.0     |
| 0°-180°   | 34566.0 | 100.0     |

**Coefficient of Utilization**



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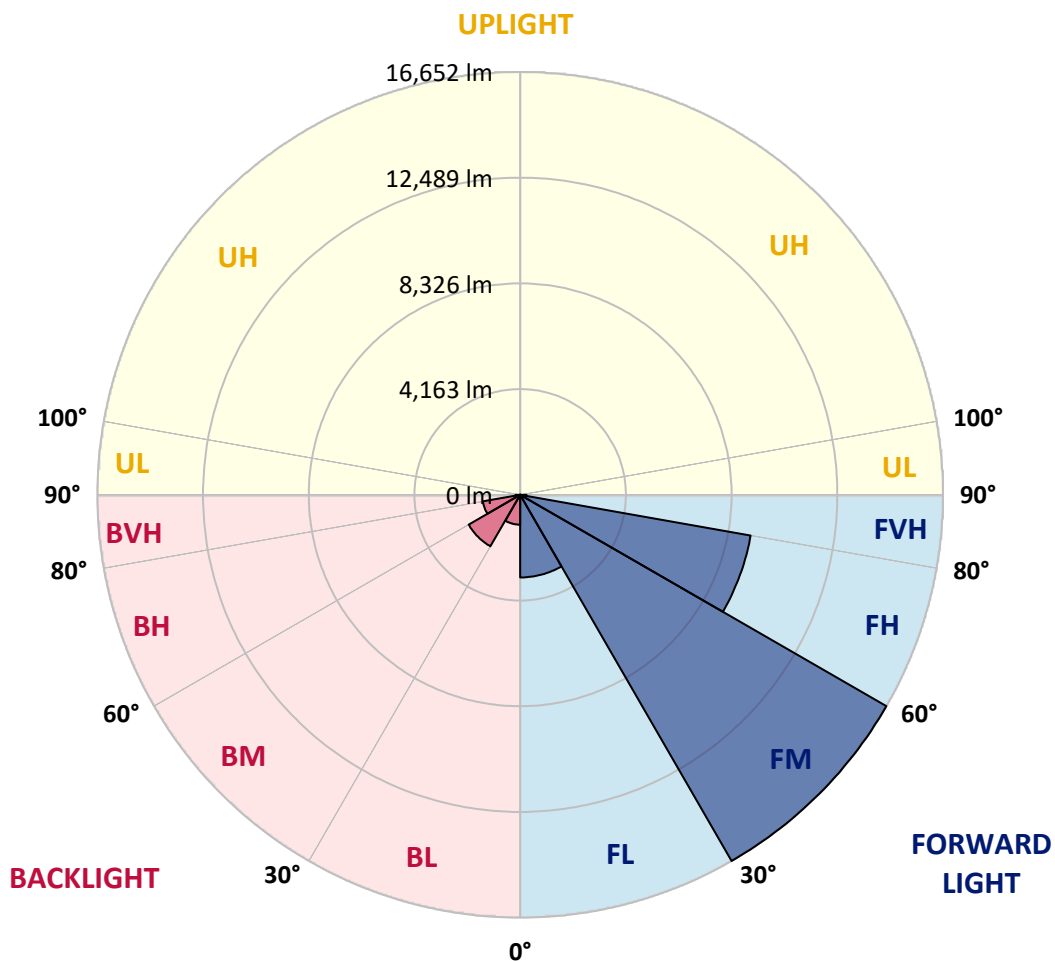
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3253.6  | 9.4       |                         |      |          |
| FM (30°-60°)   | 16652.3 | 48.2      |                         |      |          |
| FH (60°-80°)   | 9215.6  | 26.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 250.4   | 0.7       |                         |      | G3/500   |
| BL (0°-30°)    | 1175.8  | 3.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 2343.8  | 6.8       | B2/2500                 |      |          |
| BH (60°-80°)   | 1492.9  | 4.3       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 181.5   | 0.5       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 57.5°   | 60°     | 62.5°   | 65°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2994.9  | 2994.9  | 2994.9  | 2994.9  | 2994.9  | 2994.9  | 2994.9  | 2994.9  | 2994.9  | 2994.9  | 2994.9  |
| 2.5°  | 3771.2  | 3727.2  | 3731.6  | 3670.0  | 3579.8  | 3480.9  | 3399.5  | 3355.6  | 3318.2  | 3307.2  | 3245.6  |
| 5°    | 4932.2  | 4877.2  | 4857.4  | 4716.7  | 4505.6  | 4254.9  | 4006.4  | 3909.7  | 3830.5  | 3782.1  | 3663.4  |
| 7.5°  | 5882.1  | 5853.5  | 5827.1  | 5697.4  | 5488.5  | 5167.5  | 4767.3  | 4624.3  | 4492.4  | 4347.3  | 4204.3  |
| 10°   | 6528.6  | 6517.6  | 6506.6  | 6416.5  | 6242.7  | 5963.5  | 5532.5  | 5376.4  | 5211.4  | 5026.7  | 4839.8  |
| 12.5° | 7016.8  | 7016.8  | 7025.6  | 6950.8  | 6845.2  | 6629.8  | 6238.3  | 6093.2  | 5926.1  | 5732.6  | 5519.3  |
| 15°   | 7344.4  | 7353.2  | 7399.4  | 7421.4  | 7366.4  | 7227.9  | 6884.8  | 6757.3  | 6599.0  | 6407.7  | 6196.6  |
| 17.5° | 7562.1  | 7579.7  | 7647.9  | 7720.4  | 7790.8  | 7742.4  | 7487.3  | 7368.6  | 7225.7  | 7049.7  | 6851.8  |
| 20°   | 8067.8  | 8045.9  | 8048.1  | 8026.1  | 8129.4  | 8166.8  | 8026.1  | 7927.1  | 7812.8  | 7652.3  | 7471.9  |
| 22.5° | 9129.9  | 9088.1  | 8980.4  | 8705.5  | 8580.2  | 8567.0  | 8483.4  | 8430.7  | 8342.7  | 8241.6  | 8061.2  |
| 25°   | 10515.2 | 10466.9 | 10253.6 | 9800.6  | 9426.8  | 9081.5  | 8927.6  | 8894.6  | 8837.5  | 8769.3  | 8639.6  |
| 27.5° | 11946.7 | 11894.0 | 11619.1 | 11047.4 | 10559.2 | 9862.2  | 9382.8  | 9338.8  | 9286.0  | 9257.5  | 9195.9  |
| 30°   | 13206.7 | 13149.6 | 12879.1 | 12298.6 | 11709.3 | 10878.1 | 9996.3  | 9842.4  | 9752.2  | 9761.0  | 9725.8  |
| 32.5° | 14312.8 | 14262.2 | 13958.8 | 13367.2 | 12769.1 | 11962.1 | 10792.3 | 10552.6 | 10350.3 | 10275.6 | 10302.0 |
| 35°   | 15240.7 | 15194.6 | 14862.5 | 14266.6 | 13664.1 | 12993.4 | 11817.0 | 11456.4 | 11126.5 | 10919.8 | 10895.7 |
| 37.5° | 15786.1 | 15759.7 | 15526.6 | 15020.8 | 14422.7 | 13930.2 | 12964.8 | 12564.6 | 12078.7 | 11777.4 | 11645.5 |
| 40°   | 15755.3 | 15783.9 | 15744.3 | 15515.6 | 15051.6 | 14693.2 | 14161.1 | 13765.3 | 13290.3 | 12841.7 | 12573.4 |
| 42.5° | 15306.7 | 15346.3 | 15524.4 | 15643.1 | 15517.8 | 15300.1 | 15205.5 | 14910.9 | 14484.3 | 14009.3 | 13637.7 |
| 45°   | 14691.0 | 14726.2 | 14957.1 | 15385.9 | 15744.3 | 15805.9 | 16120.3 | 15973.0 | 15612.3 | 15207.7 | 14798.7 |
| 47.5° | 13747.7 | 13815.8 | 14084.1 | 14765.8 | 15618.9 | 16212.7 | 16887.7 | 16955.9 | 16747.0 | 16412.8 | 16030.1 |
| 50°   | 12382.1 | 12472.3 | 12848.3 | 13818.0 | 15144.0 | 16630.5 | 18029.0 | 18288.4 | 18204.9 | 17866.2 | 17479.2 |
| 52.5° | 10983.6 | 11073.8 | 11575.1 | 12606.4 | 14378.8 | 16802.0 | 19152.6 | 19816.7 | 20296.1 | 20645.7 | 20713.8 |
| 55°   | 9527.9  | 9629.1  | 10178.8 | 11366.2 | 13358.5 | 16584.3 | 19955.2 | 20709.5 | 21195.4 | 21560.4 | 21707.8 |
| 57.5° | 7885.3  | 7999.7  | 8531.8  | 9732.4  | 11916.0 | 15709.1 | 20848.0 | 21916.7 | 22640.1 | 23203.0 | 23519.7 |
| 60°   | 6000.9  | 6143.8  | 6695.7  | 7905.1  | 10020.5 | 14033.5 | 21246.0 | 22827.0 | 23977.1 | 24821.4 | 25322.8 |
| 62.5° | 3804.1  | 3949.3  | 4523.2  | 5778.8  | 7863.3  | 11744.4 | 20120.1 | 22426.8 | 24388.2 | 25637.2 | 26556.4 |
| 65°   | 2075.8  | 2139.6  | 2458.4  | 3403.9  | 5301.6  | 9112.3  | 17265.9 | 19986.0 | 22811.6 | 24581.8 | 25993.5 |
| 67.5° | 1556.8  | 1565.6  | 1598.6  | 1829.5  | 2823.4  | 6152.6  | 13499.2 | 15990.6 | 19128.4 | 21406.5 | 23093.1 |
| 70°   | 1363.3  | 1363.3  | 1367.7  | 1369.9  | 1532.6  | 3333.6  | 9145.3  | 11438.8 | 14315.0 | 16619.5 | 18715.0 |
| 72.5° | 1222.6  | 1209.4  | 1205.0  | 1178.6  | 1200.6  | 1708.6  | 4978.4  | 7038.8  | 9464.2  | 12050.1 | 14004.9 |
| 75°   | 1055.5  | 1053.3  | 1053.3  | 1026.9  | 1040.1  | 1202.8  | 2159.3  | 3377.5  | 5257.6  | 7665.4  | 9589.5  |
| 77.5° | 912.6   | 897.2   | 899.4   | 884.0   | 925.7   | 921.3   | 1024.7  | 1391.9  | 2289.1  | 4026.2  | 5622.6  |
| 80°   | 752.0   | 741.0   | 747.6   | 738.8   | 804.8   | 681.7   | 690.5   | 851.0   | 1136.8  | 1765.7  | 2489.2  |
| 82.5° | 556.3   | 560.7   | 602.5   | 598.1   | 677.3   | 459.6   | 505.8   | 635.5   | 765.2   | 879.6   | 956.5   |
| 85°   | 325.4   | 332.0   | 433.2   | 455.2   | 497.0   | 241.9   | 310.0   | 378.2   | 426.6   | 472.8   | 492.6   |
| 87.5° | 35.2    | 46.2    | 241.9   | 248.5   | 222.1   | 72.6    | 125.3   | 158.3   | 169.3   | 180.3   | 158.3   |
| 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°    | 2994.9  | 2994.9  | 2994.9  | 2994.9  | 2994.9  | 2994.9  | 2994.9  | 2994.9  | 2994.9 | 2994.9 | 2994.9 |
| 2.5°  | 3225.8  | 3197.2  | 3166.4  | 3148.9  | 3118.1  | 3091.7  | 3043.3  | 3003.7  | 2959.7 | 2929.0 | 2915.8 |
| 5°    | 3604.0  | 3535.9  | 3463.3  | 3410.5  | 3344.6  | 3287.4  | 3177.4  | 3045.5  | 3003.7 | 2915.8 | 2893.8 |
| 7.5°  | 4096.6  | 3973.5  | 3850.3  | 3749.2  | 3634.8  | 3540.3  | 3355.6  | 3118.1  | 3087.3 | 2946.6 | 2915.8 |
| 10°   | 4674.9  | 4494.6  | 4312.1  | 4156.0  | 3988.8  | 3843.7  | 3571.1  | 3236.8  | 3203.8 | 3023.5 | 2992.7 |
| 12.5° | 5321.4  | 5101.5  | 4866.2  | 4633.1  | 4435.2  | 4230.7  | 3859.1  | 3421.5  | 3368.7 | 3155.5 | 3113.7 |
| 15°   | 5987.7  | 5750.2  | 5477.5  | 5196.1  | 4952.0  | 4681.5  | 4213.1  | 3663.4  | 3566.7 | 3316.0 | 3258.8 |
| 17.5° | 6645.1  | 6387.9  | 6102.0  | 5787.6  | 5501.7  | 5178.5  | 4595.7  | 3933.9  | 3766.8 | 3474.3 | 3401.7 |
| 20°   | 7280.6  | 7019.0  | 6717.7  | 6409.9  | 6053.6  | 5684.2  | 4987.2  | 4199.9  | 3944.9 | 3606.2 | 3511.7 |
| 22.5° | 7858.9  | 7634.7  | 7333.4  | 6979.4  | 6618.8  | 6203.2  | 5385.2  | 4466.0  | 4101.0 | 3707.4 | 3586.4 |
| 25°   | 8468.1  | 8263.6  | 7964.5  | 7623.7  | 7203.7  | 6741.9  | 5796.4  | 4718.9  | 4226.3 | 3762.4 | 3612.8 |
| 27.5° | 9083.7  | 8907.8  | 8626.4  | 8267.9  | 7817.2  | 7304.8  | 6214.2  | 4952.0  | 4327.5 | 3779.9 | 3599.6 |
| 30°   | 9741.2  | 9604.9  | 9345.4  | 8945.2  | 8490.0  | 7922.7  | 6669.3  | 5180.7  | 4391.2 | 3755.8 | 3540.3 |
| 32.5° | 10363.5 | 10359.1 | 10128.2 | 9712.6  | 9222.3  | 8597.8  | 7148.7  | 5411.5  | 4424.2 | 3687.6 | 3436.9 |
| 35°   | 11010.0 | 11100.2 | 10926.4 | 10530.6 | 10013.9 | 9321.2  | 7678.6  | 5657.8  | 4426.4 | 3566.7 | 3302.8 |
| 37.5° | 11744.4 | 11905.0 | 11828.0 | 11452.0 | 10908.9 | 10145.8 | 8300.9  | 5934.9  | 4413.2 | 3399.5 | 3107.1 |
| 40°   | 12580.0 | 12799.9 | 12797.7 | 12481.1 | 11900.6 | 11069.4 | 9024.4  | 6244.9  | 4382.5 | 3190.6 | 2876.2 |
| 42.5° | 13536.6 | 13798.2 | 13870.8 | 13558.6 | 12971.4 | 12078.7 | 9853.4  | 6585.8  | 4334.1 | 2983.9 | 2632.1 |
| 45°   | 14631.6 | 14862.5 | 14998.9 | 14708.6 | 14119.3 | 13178.1 | 10805.5 | 6972.8  | 4274.7 | 2717.9 | 2352.8 |
| 47.5° | 15803.7 | 16071.9 | 16276.4 | 16027.9 | 15399.1 | 14431.5 | 11933.6 | 7471.9  | 4252.7 | 2414.4 | 2051.6 |
| 50°   | 17257.1 | 17534.2 | 17976.2 | 17864.0 | 17518.8 | 16740.4 | 14319.4 | 8650.6  | 4261.5 | 2126.4 | 1798.7 |
| 52.5° | 20863.4 | 21498.9 | 22057.4 | 21808.9 | 20988.7 | 19654.0 | 16258.8 | 9305.8  | 4076.8 | 1891.1 | 1622.8 |
| 55°   | 21951.8 | 22673.1 | 23497.7 | 23394.3 | 22607.1 | 21261.4 | 17791.5 | 9853.4  | 3898.7 | 1719.6 | 1508.5 |
| 57.5° | 23856.1 | 24707.1 | 25859.3 | 25837.3 | 24872.0 | 23357.0 | 19763.9 | 10508.7 | 3821.7 | 1620.6 | 1451.3 |
| 60°   | 25872.5 | 26956.6 | 28548.6 | 28797.1 | 27748.2 | 26171.6 | 22094.8 | 11313.5 | 3832.7 | 1565.6 | 1418.3 |
| 62.5° | 27345.8 | 28935.6 | 31251.1 | 31994.3 | 30758.5 | 29021.4 | 24513.6 | 12118.3 | 3766.8 | 1501.9 | 1378.7 |
| 65°   | 27436.0 | 29725.0 | 33010.2 | 34166.9 | 32915.7 | 30683.8 | 25366.8 | 11959.9 | 3370.9 | 1416.1 | 1315.0 |
| 67.5° | 25237.0 | 28218.8 | 32209.8 | 33478.6 | 32198.8 | 29659.1 | 23871.5 | 10455.9 | 2739.9 | 1266.6 | 1205.0 |
| 70°   | 21019.5 | 24480.6 | 28623.4 | 30037.3 | 28979.6 | 26409.1 | 20775.4 | 8351.5  | 2047.2 | 1068.7 | 1040.1 |
| 72.5° | 16243.4 | 19471.5 | 23233.8 | 24542.2 | 23733.0 | 21472.5 | 16386.4 | 6086.6  | 1462.3 | 866.4  | 844.4  |
| 75°   | 11612.5 | 14361.2 | 17092.2 | 17591.4 | 16793.2 | 14717.4 | 10631.8 | 3801.9  | 1024.7 | 710.3  | 679.5  |
| 77.5° | 7190.5  | 8978.2  | 9958.9  | 9316.8  | 8298.7  | 6898.0  | 4327.5  | 1877.9  | 681.7  | 578.3  | 547.5  |
| 80°   | 3190.6  | 3744.8  | 3496.3  | 3115.9  | 2460.6  | 2023.0  | 1321.6  | 833.4   | 439.8  | 446.4  | 428.8  |
| 82.5° | 1073.1  | 1134.6  | 1103.9  | 1097.3  | 989.5   | 866.4   | 560.7   | 360.6   | 246.3  | 285.9  | 279.3  |
| 85°   | 523.3   | 547.5   | 549.7   | 569.5   | 494.8   | 384.8   | 151.7   | 142.9   | 105.5  | 153.9  | 160.5  |
| 87.5° | 158.3   | 160.5   | 145.1   | 158.3   | 127.5   | 88.0    | 28.6    | 39.6    | 19.8   | 37.4   | 37.4   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 105°   | 107.5° | 110°   | 112.5° | 115°   | 117.5° | 120°   | 122.5° | 125°   | 127.5° | 130°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2994.9 | 2994.9 | 2994.9 | 2994.9 | 2994.9 | 2994.9 | 2994.9 | 2994.9 | 2994.9 | 2994.9 | 2994.9 |
| 2.5°  | 2891.6 | 2882.8 | 2867.4 | 2849.8 | 2845.4 | 2823.4 | 2816.8 | 2805.8 | 2799.2 | 2788.2 | 2779.4 |
| 5°    | 2865.2 | 2849.8 | 2832.2 | 2812.4 | 2812.4 | 2781.6 | 2768.4 | 2755.2 | 2755.2 | 2735.5 | 2726.7 |
| 7.5°  | 2891.6 | 2871.8 | 2852.0 | 2834.4 | 2841.0 | 2805.8 | 2792.6 | 2779.4 | 2777.2 | 2757.4 | 2748.7 |
| 10°   | 2966.3 | 2946.6 | 2922.4 | 2904.8 | 2898.2 | 2869.6 | 2854.2 | 2834.4 | 2821.2 | 2808.0 | 2794.8 |
| 12.5° | 3080.7 | 3054.3 | 3023.5 | 2986.1 | 2970.7 | 2946.6 | 2922.4 | 2896.0 | 2865.2 | 2852.0 | 2832.2 |
| 15°   | 3217.0 | 3173.0 | 3131.3 | 3085.1 | 3043.3 | 3019.1 | 2986.1 | 2944.4 | 2902.6 | 2885.0 | 2858.6 |
| 17.5° | 3329.2 | 3283.0 | 3223.6 | 3168.6 | 3093.9 | 3074.1 | 3027.9 | 2977.3 | 2909.2 | 2902.6 | 2863.0 |
| 20°   | 3423.7 | 3353.4 | 3280.8 | 3214.8 | 3100.5 | 3089.5 | 3032.3 | 2972.9 | 2876.2 | 2876.2 | 2827.8 |
| 22.5° | 3476.5 | 3379.7 | 3294.0 | 3206.0 | 3063.1 | 3054.3 | 2988.3 | 2918.0 | 2799.2 | 2803.6 | 2744.3 |
| 25°   | 3485.3 | 3368.7 | 3261.0 | 3155.5 | 2990.5 | 2975.1 | 2891.6 | 2814.6 | 2684.9 | 2676.1 | 2614.5 |
| 27.5° | 3450.1 | 3313.8 | 3188.4 | 3060.9 | 2882.8 | 2849.8 | 2757.4 | 2665.1 | 2537.6 | 2515.6 | 2449.6 |
| 30°   | 3368.7 | 3208.2 | 3067.5 | 2920.2 | 2733.3 | 2680.5 | 2583.7 | 2489.2 | 2359.4 | 2330.9 | 2269.3 |
| 32.5° | 3239.0 | 3056.5 | 2900.4 | 2753.1 | 2546.4 | 2480.4 | 2383.6 | 2289.1 | 2163.7 | 2141.8 | 2084.6 |
| 35°   | 3067.5 | 2863.0 | 2698.1 | 2542.0 | 2335.3 | 2267.1 | 2174.7 | 2091.2 | 1976.8 | 1968.0 | 1928.5 |
| 37.5° | 2852.0 | 2638.7 | 2462.8 | 2313.3 | 2117.6 | 2082.4 | 1987.8 | 1926.3 | 1831.7 | 1840.5 | 1820.7 |
| 40°   | 2607.9 | 2390.2 | 2223.1 | 2091.2 | 1921.9 | 1891.1 | 1833.9 | 1787.7 | 1706.4 | 1730.6 | 1732.8 |
| 42.5° | 2361.6 | 2143.9 | 1992.2 | 1873.5 | 1728.4 | 1708.6 | 1669.0 | 1642.6 | 1581.0 | 1629.4 | 1649.2 |
| 45°   | 2082.4 | 1880.1 | 1750.3 | 1660.2 | 1552.4 | 1552.4 | 1532.6 | 1530.5 | 1488.7 | 1556.8 | 1576.6 |
| 47.5° | 1811.9 | 1653.6 | 1563.4 | 1508.5 | 1433.7 | 1468.9 | 1462.3 | 1479.9 | 1449.1 | 1519.5 | 1537.0 |
| 50°   | 1607.4 | 1497.5 | 1442.5 | 1416.1 | 1363.3 | 1418.3 | 1431.5 | 1455.7 | 1429.3 | 1490.9 | 1504.1 |
| 52.5° | 1477.7 | 1405.1 | 1374.3 | 1367.7 | 1330.3 | 1398.5 | 1420.5 | 1442.5 | 1411.7 | 1468.9 | 1466.7 |
| 55°   | 1405.1 | 1356.7 | 1345.7 | 1358.9 | 1330.3 | 1396.3 | 1418.3 | 1433.7 | 1407.3 | 1446.9 | 1444.7 |
| 57.5° | 1378.7 | 1352.3 | 1358.9 | 1378.7 | 1358.9 | 1413.9 | 1424.9 | 1442.5 | 1416.1 | 1433.7 | 1442.5 |
| 60°   | 1376.5 | 1376.5 | 1402.9 | 1429.3 | 1416.1 | 1455.7 | 1462.3 | 1460.1 | 1435.9 | 1438.1 | 1442.5 |
| 62.5° | 1363.3 | 1396.3 | 1440.3 | 1482.1 | 1477.7 | 1526.1 | 1530.5 | 1501.9 | 1482.1 | 1460.1 | 1453.5 |
| 65°   | 1321.6 | 1376.5 | 1440.3 | 1497.5 | 1506.3 | 1581.0 | 1589.8 | 1561.2 | 1548.0 | 1510.7 | 1482.1 |
| 67.5° | 1229.2 | 1299.6 | 1374.3 | 1444.7 | 1460.1 | 1561.2 | 1581.0 | 1592.0 | 1598.6 | 1574.4 | 1537.0 |
| 70°   | 1073.1 | 1145.6 | 1222.6 | 1304.0 | 1326.0 | 1438.1 | 1479.9 | 1530.5 | 1570.0 | 1605.2 | 1592.0 |
| 72.5° | 873.0  | 938.9  | 1004.9 | 1079.7 | 1112.7 | 1229.2 | 1284.2 | 1372.1 | 1433.7 | 1523.9 | 1561.2 |
| 75°   | 692.7  | 732.2  | 771.8  | 818.0  | 844.4  | 958.7  | 1026.9 | 1132.4 | 1216.0 | 1341.3 | 1424.9 |
| 77.5° | 545.3  | 565.1  | 584.9  | 604.7  | 615.7  | 679.5  | 734.4  | 840.0  | 936.7  | 1095.1 | 1218.2 |
| 80°   | 420.0  | 431.0  | 433.2  | 439.8  | 435.4  | 466.2  | 486.0  | 549.7  | 633.3  | 789.4  | 934.5  |
| 82.5° | 270.5  | 279.3  | 283.7  | 294.7  | 272.7  | 312.2  | 325.4  | 332.0  | 376.0  | 490.4  | 593.7  |
| 85°   | 151.7  | 153.9  | 156.1  | 160.5  | 129.7  | 169.3  | 171.5  | 160.5  | 156.1  | 202.3  | 228.7  |
| 87.5° | 37.4   | 35.2   | 37.4   | 37.4   | 15.4   | 35.2   | 35.2   | 24.2   | 17.6   | 33.0   | 26.4   |
| 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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|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 2994.9 | 2994.9 | 2994.9 | 2994.9 | 2994.9 | 2994.9 |
| 2.5°  | 2759.6 | 2755.2 | 2757.4 | 2746.5 | 2742.1 | 2744.3 |
| 5°    | 2715.7 | 2706.9 | 2706.9 | 2700.3 | 2691.5 | 2691.5 |
| 7.5°  | 2735.5 | 2717.9 | 2711.3 | 2698.1 | 2684.9 | 2687.1 |
| 10°   | 2766.2 | 2735.5 | 2713.5 | 2693.7 | 2678.3 | 2678.3 |
| 12.5° | 2786.0 | 2731.1 | 2698.1 | 2671.7 | 2654.1 | 2654.1 |
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| 17.5° | 2764.0 | 2658.5 | 2596.9 | 2559.5 | 2539.8 | 2544.2 |
| 20°   | 2698.1 | 2568.3 | 2495.8 | 2456.2 | 2436.4 | 2438.6 |
| 22.5° | 2594.7 | 2445.2 | 2361.6 | 2315.5 | 2295.7 | 2295.7 |
| 25°   | 2454.0 | 2291.3 | 2201.1 | 2163.7 | 2146.1 | 2146.1 |
| 27.5° | 2293.5 | 2126.4 | 2047.2 | 2018.6 | 2007.6 | 2007.6 |
| 30°   | 2113.2 | 1974.6 | 1917.5 | 1897.7 | 1880.1 | 1880.1 |
| 32.5° | 1961.4 | 1862.5 | 1842.7 | 1816.3 | 1770.1 | 1767.9 |
| 35°   | 1840.5 | 1829.5 | 1814.1 | 1734.9 | 1669.0 | 1660.2 |
| 37.5° | 1774.5 | 1840.5 | 1743.7 | 1607.4 | 1554.6 | 1552.4 |
| 40°   | 1739.3 | 1800.9 | 1633.8 | 1567.8 | 1561.2 | 1561.2 |
| 42.5° | 1655.8 | 1699.8 | 1627.2 | 1589.8 | 1589.8 | 1592.0 |
| 45°   | 1567.8 | 1605.2 | 1642.6 | 1609.6 | 1620.6 | 1622.8 |
| 47.5° | 1506.3 | 1581.0 | 1642.6 | 1614.0 | 1636.0 | 1649.2 |
| 50°   | 1449.1 | 1559.0 | 1609.6 | 1609.6 | 1633.8 | 1636.0 |
| 52.5° | 1435.9 | 1528.3 | 1578.8 | 1603.0 | 1605.2 | 1594.2 |
| 55°   | 1438.1 | 1504.1 | 1554.6 | 1585.4 | 1572.2 | 1572.2 |
| 57.5° | 1435.9 | 1490.9 | 1534.8 | 1545.8 | 1552.4 | 1552.4 |
| 60°   | 1438.1 | 1473.3 | 1508.5 | 1504.1 | 1526.1 | 1526.1 |
| 62.5° | 1444.7 | 1449.1 | 1466.7 | 1462.3 | 1495.3 | 1495.3 |
| 65°   | 1460.1 | 1418.3 | 1407.3 | 1411.7 | 1451.3 | 1449.1 |
| 67.5° | 1488.7 | 1376.5 | 1341.3 | 1343.5 | 1400.7 | 1391.9 |
| 70°   | 1530.5 | 1319.4 | 1266.6 | 1253.4 | 1350.1 | 1334.7 |
| 72.5° | 1543.6 | 1253.4 | 1169.8 | 1156.6 | 1213.8 | 1169.8 |
| 75°   | 1482.1 | 1200.6 | 1066.5 | 1022.5 | 998.3  | 985.1  |
| 77.5° | 1321.6 | 1167.6 | 958.7  | 866.4  | 829.0  | 820.2  |
| 80°   | 1095.1 | 1099.5 | 818.0  | 708.1  | 822.4  | 820.2  |
| 82.5° | 826.8  | 949.9  | 655.3  | 613.5  | 595.9  | 497.0  |
| 85°   | 400.2  | 714.6  | 503.6  | 422.2  | 252.9  | 239.7  |
| 87.5° | 35.2   | 299.1  | 290.3  | 189.1  | 85.8   | 81.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)