

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: P962480

Luminaire Tested: **NAV-SB2C-740-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-740-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16142.7 lumens  
Efficiency: N/A  
Efficacy: 160.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 100.9  
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: 24 FT



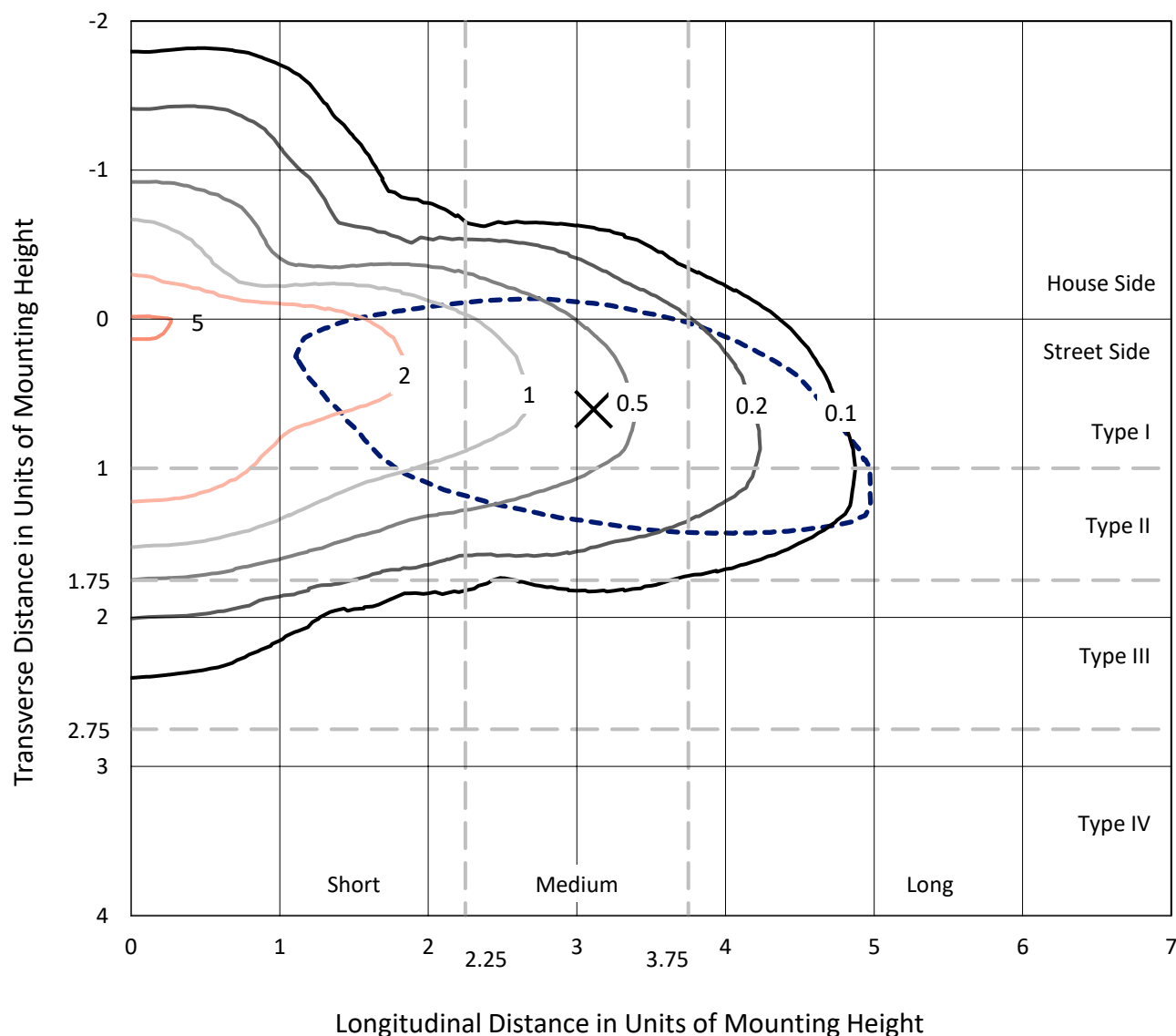
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

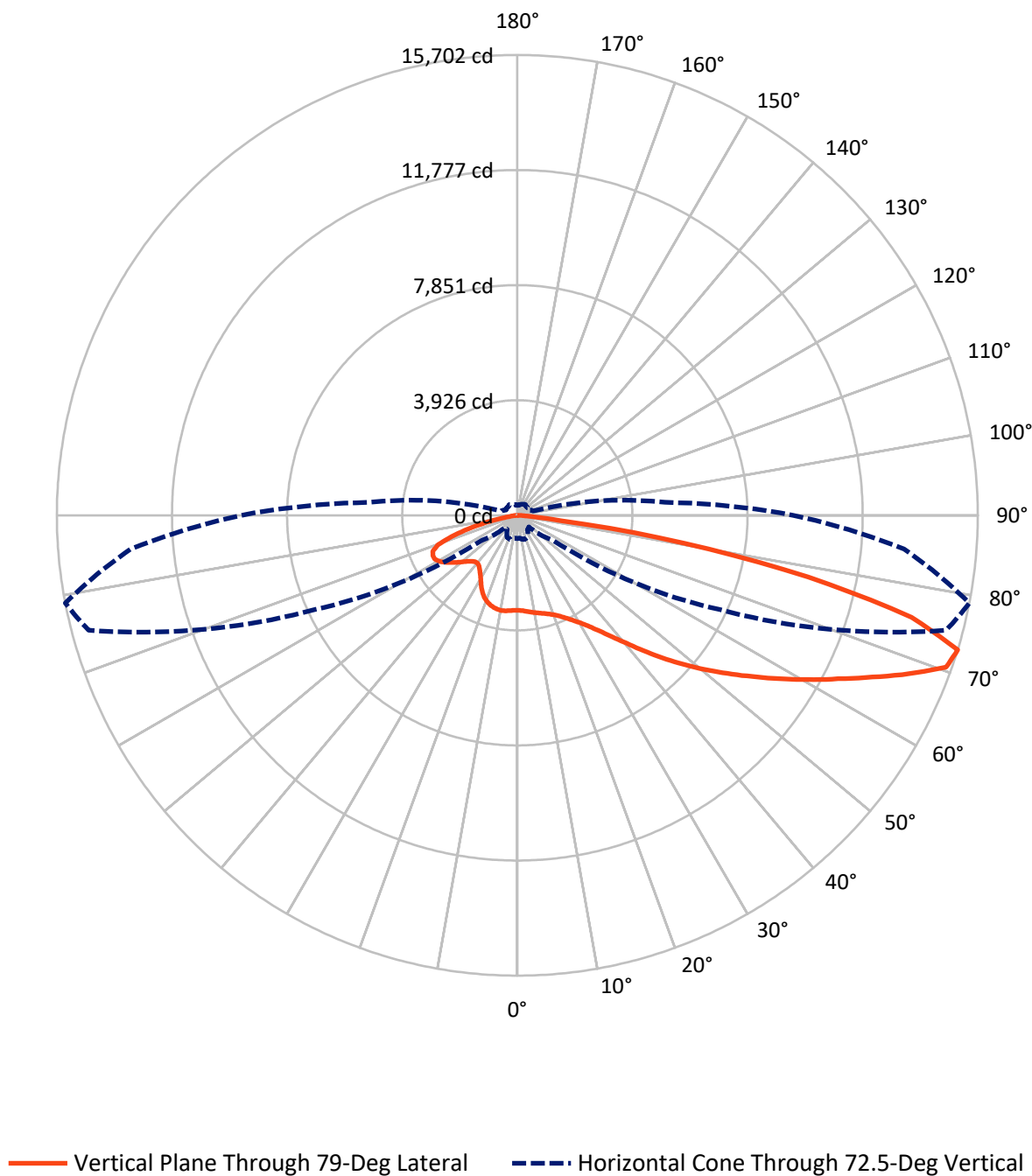
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3552.3   | 0.0    | 3552.3  |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 12590.4  | 0.0    | 12590.4 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 16142.7  | 0.0    | 16142.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 294.1   | 1.8       |
| 10°-20°   | 769.0   | 4.8       |
| 20°-30°   | 1240.9  | 7.7       |
| 30°-40°   | 1862.4  | 11.5      |
| 40°-50°   | 2642.0  | 16.4      |
| 50°-60°   | 3336.5  | 20.7      |
| 60°-70°   | 3388.6  | 21.0      |
| 70°-80°   | 2309.5  | 14.3      |
| 80°-90°   | 299.6   | 1.9       |
| 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°    | 16142.7 | 100.0     |
| 0°-180°   | 16142.7 | 100.0     |

**Coefficient of Utilization**



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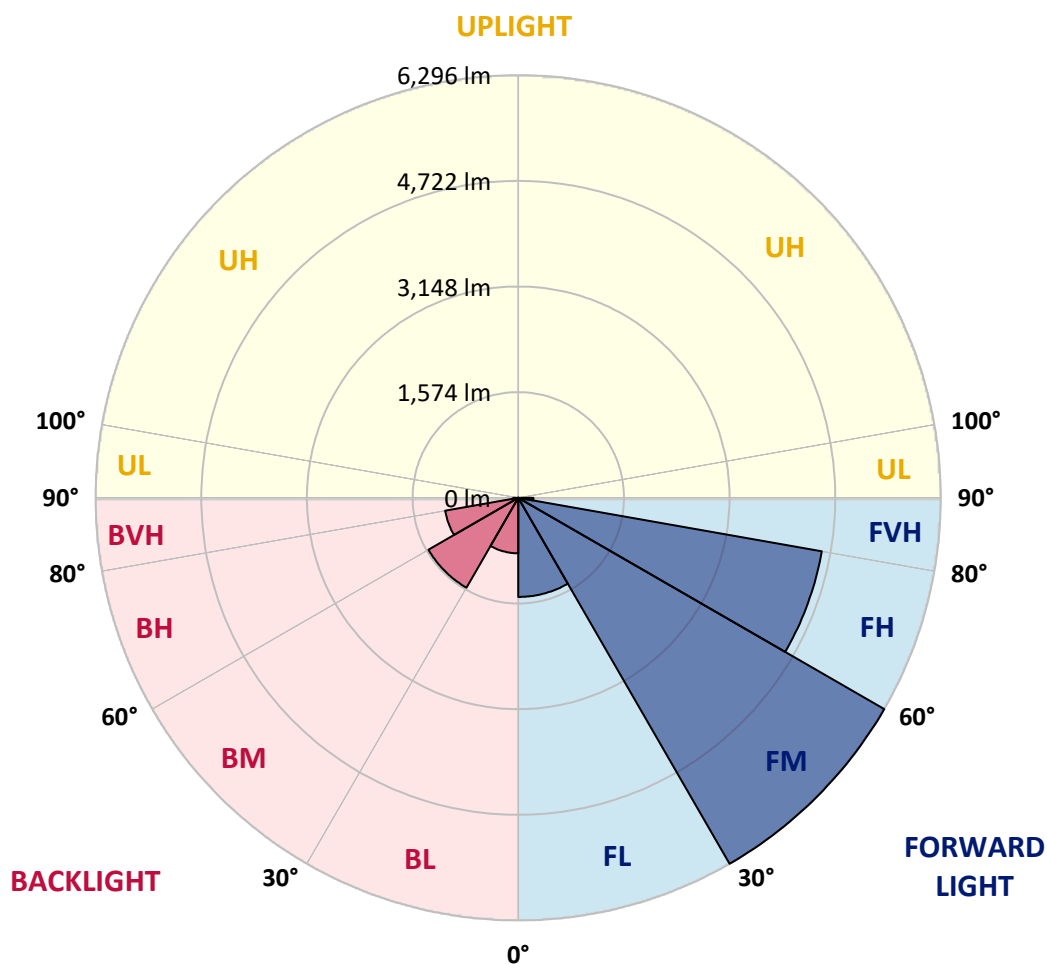
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1476.7 | 9.1       |                         |      |         |
| FM   | (30°-60°)   | 6296.0 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 4592.1 | 28.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 225.7  | 1.4       |                         |      | G3/500  |
| BL   | (0°-30°)    | 827.4  | 5.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1544.9 | 9.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1106.1 | 6.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 73.9   | 0.5       |                         |      | G1/100  |
| 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 79°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 3240.5 | 3240.5 | 3240.5 | 3240.5 | 3240.5 | 3240.5 | 3240.5 | 3240.5 | 3240.5  | 3240.5  | 3240.5  |
| 2.5°  | 3242.2 | 3226.8 | 3236.2 | 3232.8 | 3237.1 | 3242.2 | 3243.9 | 3246.5 | 3255.0  | 3254.2  | 3253.4  |
| 5°    | 3235.4 | 3220.0 | 3232.8 | 3228.5 | 3239.6 | 3251.6 | 3261.9 | 3271.3 | 3284.9  | 3290.9  | 3282.4  |
| 7.5°  | 3220.9 | 3210.6 | 3223.4 | 3236.2 | 3256.7 | 3274.7 | 3289.1 | 3310.5 | 3330.1  | 3333.6  | 3339.6  |
| 10°   | 3136.3 | 3128.6 | 3158.5 | 3191.8 | 3248.2 | 3296.8 | 3328.5 | 3353.2 | 3374.6  | 3378.0  | 3386.5  |
| 12.5° | 3048.4 | 3039.0 | 3072.2 | 3117.5 | 3208.9 | 3296.8 | 3363.4 | 3395.9 | 3414.7  | 3425.8  | 3438.6  |
| 15°   | 3033.9 | 3026.2 | 3045.0 | 3084.2 | 3160.3 | 3273.8 | 3387.3 | 3447.2 | 3463.4  | 3476.2  | 3481.3  |
| 17.5° | 3103.9 | 3089.4 | 3097.0 | 3110.7 | 3155.2 | 3252.4 | 3406.2 | 3505.2 | 3530.0  | 3543.6  | 3543.6  |
| 20°   | 3266.2 | 3245.7 | 3233.7 | 3206.3 | 3198.6 | 3255.9 | 3404.4 | 3575.2 | 3607.7  | 3624.7  | 3629.0  |
| 22.5° | 3482.1 | 3468.5 | 3442.9 | 3373.7 | 3298.6 | 3297.7 | 3436.9 | 3664.9 | 3725.5  | 3741.8  | 3731.5  |
| 25°   | 3743.4 | 3722.9 | 3690.5 | 3596.5 | 3452.3 | 3380.6 | 3491.6 | 3779.3 | 3881.0  | 3885.2  | 3855.3  |
| 27.5° | 4044.0 | 4013.3 | 3968.9 | 3845.1 | 3650.3 | 3510.3 | 3575.2 | 3910.8 | 4059.4  | 4057.7  | 3996.2  |
| 30°   | 4360.8 | 4330.0 | 4283.1 | 4132.8 | 3887.7 | 3685.4 | 3691.3 | 4052.5 | 4271.2  | 4261.7  | 4156.7  |
| 32.5° | 4592.2 | 4569.1 | 4559.7 | 4443.6 | 4161.0 | 3892.0 | 3824.6 | 4209.7 | 4532.4  | 4523.9  | 4377.1  |
| 35°   | 4769.8 | 4739.9 | 4751.0 | 4692.1 | 4459.0 | 4123.4 | 3987.7 | 4396.6 | 4850.1  | 4849.2  | 4666.5  |
| 37.5° | 4945.7 | 4919.3 | 4928.6 | 4889.4 | 4734.8 | 4417.1 | 4186.6 | 4625.5 | 5243.7  | 5262.5  | 5016.6  |
| 40°   | 5106.2 | 5078.1 | 5115.7 | 5078.9 | 4949.1 | 4729.7 | 4412.9 | 4884.2 | 5699.7  | 5735.6  | 5440.1  |
| 42.5° | 5202.7 | 5180.6 | 5242.9 | 5243.7 | 5135.2 | 4993.5 | 4661.4 | 5169.4 | 6227.4  | 6307.6  | 5961.0  |
| 45°   | 5236.0 | 5228.3 | 5322.3 | 5341.9 | 5300.1 | 5146.4 | 4885.0 | 5480.3 | 6796.1  | 6939.6  | 6554.5  |
| 47.5° | 5200.1 | 5185.7 | 5315.4 | 5388.0 | 5421.3 | 5218.1 | 5070.4 | 5816.7 | 7376.7  | 7586.7  | 7201.6  |
| 50°   | 5019.1 | 4990.9 | 5183.9 | 5336.8 | 5455.5 | 5265.0 | 5257.3 | 6205.1 | 8036.8  | 8266.5  | 7852.3  |
| 52.5° | 4693.8 | 4672.5 | 4891.9 | 5157.5 | 5380.3 | 5288.1 | 5467.5 | 6629.6 | 8663.5  | 8960.7  | 8519.2  |
| 55°   | 4277.9 | 4249.8 | 4491.4 | 4838.1 | 5193.4 | 5280.4 | 5677.5 | 7104.4 | 9403.0  | 9704.4  | 9208.3  |
| 57.5° | 3618.8 | 3562.4 | 3868.1 | 4277.9 | 4888.5 | 5271.1 | 5896.1 | 7576.5 | 10154.4 | 10515.6 | 9943.5  |
| 60°   | 2657.3 | 2573.6 | 2948.5 | 3434.4 | 4292.5 | 5179.6 | 6166.8 | 8105.9 | 11056.2 | 11381.5 | 10746.2 |
| 62.5° | 1547.2 | 1498.6 | 1743.6 | 2197.1 | 3235.4 | 4641.7 | 6318.7 | 8721.6 | 11942.5 | 12284.0 | 11535.1 |
| 65°   | 1201.4 | 1187.8 | 1209.1 | 1244.1 | 1800.8 | 3475.4 | 5850.0 | 9321.9 | 13069.6 | 13308.7 | 12357.4 |
| 67.5° | 1098.9 | 1088.8 | 1098.1 | 1032.4 | 913.7  | 1935.7 | 4628.1 | 9473.9 | 14277.0 | 14422.2 | 13077.3 |
| 70°   | 976.8  | 964.9  | 995.6  | 939.3  | 718.9  | 880.4  | 2990.3 | 8922.2 | 15237.6 | 15510.0 | 13624.6 |
| 72.5° | 795.8  | 782.2  | 853.9  | 828.3  | 605.4  | 565.3  | 1502.0 | 7611.5 | 15136.9 | 15702.1 | 13232.6 |
| 75°   | 611.4  | 603.7  | 689.1  | 710.4  | 493.5  | 444.8  | 720.7  | 5657.9 | 13320.6 | 13890.2 | 11404.5 |
| 77.5° | 474.8  | 468.7  | 512.3  | 590.0  | 397.9  | 345.0  | 443.2  | 3588.9 | 10038.3 | 10138.2 | 7859.2  |
| 80°   | 356.1  | 339.0  | 379.1  | 456.8  | 310.0  | 251.9  | 300.5  | 2092.8 | 6345.3  | 5751.8  | 3420.6  |
| 82.5° | 222.8  | 214.3  | 247.6  | 304.8  | 218.6  | 173.3  | 195.6  | 1156.2 | 2542.9  | 1497.7  | 660.1   |
| 85°   | 127.2  | 123.8  | 134.9  | 174.1  | 118.7  | 99.9   | 111.8  | 510.7  | 464.5   | 319.4   | 199.0   |
| 87.5° | 51.2   | 49.5   | 61.5   | 77.7   | 43.6   | 36.7   | 39.3   | 123.0  | 102.5   | 94.8    | 65.7    |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3240.5  | 3240.5 | 3240.5 | 3240.5 | 3240.5 | 3240.5 | 3240.5 | 3240.5 | 3240.5 | 3240.5 | 3240.5 |
| 2.5°  | 3249.9  | 3249.9 | 3238.0 | 3219.1 | 3197.8 | 3184.2 | 3161.9 | 3156.0 | 3132.9 | 3126.0 | 3137.2 |
| 5°    | 3289.1  | 3282.4 | 3245.7 | 3192.7 | 3120.1 | 3053.5 | 2980.1 | 2934.0 | 2869.1 | 2846.0 | 2863.0 |
| 7.5°  | 3338.7  | 3319.9 | 3256.7 | 3140.6 | 2988.6 | 2839.1 | 2683.8 | 2565.9 | 2453.2 | 2413.1 | 2418.2 |
| 10°   | 3383.9  | 3357.5 | 3249.9 | 3046.7 | 2783.7 | 2525.0 | 2277.3 | 2104.0 | 1972.5 | 1918.7 | 1930.6 |
| 12.5° | 3429.2  | 3380.6 | 3204.7 | 2890.4 | 2492.5 | 2141.5 | 1877.7 | 1742.8 | 1661.6 | 1596.7 | 1618.1 |
| 15°   | 3471.9  | 3403.6 | 3134.7 | 2681.2 | 2173.1 | 1817.1 | 1622.4 | 1514.7 | 1449.9 | 1407.2 | 1414.9 |
| 17.5° | 3521.4  | 3423.2 | 3029.6 | 2415.6 | 1869.2 | 1592.5 | 1433.7 | 1368.8 | 1356.0 | 1350.8 | 1354.2 |
| 20°   | 3590.6  | 3441.1 | 2891.2 | 2118.5 | 1645.4 | 1413.2 | 1331.2 | 1325.2 | 1324.4 | 1321.8 | 1330.3 |
| 22.5° | 3664.9  | 3462.6 | 2708.6 | 1848.7 | 1455.0 | 1301.3 | 1286.8 | 1274.9 | 1267.2 | 1266.3 | 1275.7 |
| 25°   | 3752.8  | 3469.3 | 2479.7 | 1627.5 | 1292.8 | 1248.3 | 1231.3 | 1213.4 | 1208.3 | 1208.3 | 1213.4 |
| 27.5° | 3838.2  | 3446.3 | 2213.3 | 1435.4 | 1201.4 | 1199.7 | 1177.5 | 1171.6 | 1170.7 | 1173.2 | 1180.1 |
| 30°   | 3923.6  | 3402.7 | 1948.5 | 1257.8 | 1148.5 | 1148.5 | 1140.8 | 1145.0 | 1148.5 | 1157.0 | 1163.0 |
| 32.5° | 4038.9  | 3356.7 | 1727.4 | 1126.3 | 1102.4 | 1093.8 | 1101.5 | 1110.1 | 1113.5 | 1124.5 | 1134.0 |
| 35°   | 4207.9  | 3324.2 | 1551.5 | 1054.5 | 1054.5 | 1043.4 | 1047.8 | 1046.0 | 1038.3 | 1033.2 | 1045.2 |
| 37.5° | 4431.7  | 3322.4 | 1406.3 | 1021.2 | 1014.4 | 1012.7 | 1013.5 | 1002.4 | 972.6  | 936.7  | 937.6  |
| 40°   | 4700.6  | 3368.6 | 1294.5 | 998.1  | 993.0  | 1003.3 | 998.1  | 968.3  | 886.3  | 824.0  | 822.3  |
| 42.5° | 5061.9  | 3500.1 | 1222.7 | 970.1  | 985.4  | 998.1  | 977.7  | 874.4  | 818.9  | 777.1  | 775.3  |
| 45°   | 5487.0  | 3713.6 | 1186.0 | 940.1  | 970.9  | 986.3  | 887.1  | 841.9  | 797.6  | 747.1  | 743.7  |
| 47.5° | 5968.7  | 3982.5 | 1177.5 | 911.9  | 938.4  | 947.8  | 848.8  | 828.3  | 777.9  | 723.2  | 718.9  |
| 50°   | 6493.0  | 4301.0 | 1200.6 | 878.6  | 891.4  | 859.1  | 836.0  | 817.1  | 765.1  | 711.2  | 705.3  |
| 52.5° | 7035.2  | 4652.0 | 1246.7 | 833.4  | 844.5  | 808.6  | 830.9  | 814.6  | 757.4  | 684.8  | 679.7  |
| 55°   | 7568.0  | 5005.5 | 1291.1 | 780.4  | 796.6  | 763.4  | 816.3  | 804.3  | 722.4  | 640.4  | 636.1  |
| 57.5° | 8109.4  | 5357.3 | 1334.7 | 733.5  | 750.6  | 719.9  | 793.2  | 777.1  | 683.1  | 599.4  | 597.7  |
| 60°   | 8672.1  | 5698.8 | 1355.2 | 688.2  | 700.2  | 679.7  | 758.3  | 730.1  | 638.7  | 557.6  | 555.0  |
| 62.5° | 9199.0  | 5983.2 | 1321.8 | 643.0  | 650.7  | 642.2  | 712.2  | 674.6  | 594.3  | 510.7  | 509.7  |
| 65°   | 9727.5  | 6152.3 | 1219.3 | 598.6  | 600.2  | 596.0  | 647.3  | 614.8  | 542.2  | 469.7  | 464.5  |
| 67.5° | 10206.5 | 6247.1 | 1056.3 | 550.7  | 546.5  | 544.8  | 586.6  | 549.9  | 491.8  | 428.7  | 423.5  |
| 70°   | 10308.1 | 6006.2 | 806.9  | 494.4  | 494.4  | 490.2  | 520.0  | 482.5  | 436.3  | 385.1  | 383.3  |
| 72.5° | 9414.9  | 5052.4 | 573.0  | 430.4  | 437.2  | 428.7  | 453.5  | 421.8  | 380.0  | 345.8  | 335.6  |
| 75°   | 7591.9  | 3705.0 | 416.7  | 364.6  | 376.6  | 362.0  | 385.1  | 363.0  | 327.1  | 326.2  | 293.8  |
| 77.5° | 5216.4  | 2291.0 | 302.3  | 300.5  | 309.1  | 290.3  | 316.8  | 304.8  | 272.3  | 257.9  | 241.7  |
| 80°   | 2226.1  | 913.7  | 220.3  | 232.3  | 232.3  | 215.1  | 245.9  | 249.4  | 221.2  | 214.3  | 214.3  |
| 82.5° | 443.2   | 259.6  | 154.6  | 159.7  | 150.3  | 145.1  | 174.1  | 193.0  | 266.4  | 296.3  | 297.1  |
| 85°   | 133.2   | 95.6   | 93.1   | 87.1   | 76.9   | 77.7   | 102.5  | 193.8  | 239.1  | 136.6  | 117.9  |
| 87.5° | 36.7    | 23.9   | 24.8   | 19.7   | 16.2   | 21.3   | 35.1   | 146.9  | 80.3   | 34.1   | 29.0   |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)