

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: P964125

Luminaire Tested: **NAV-SB3B-760-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964125  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3B-760-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17905.7 lumens  
Efficiency: N/A  
Efficacy: 164.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

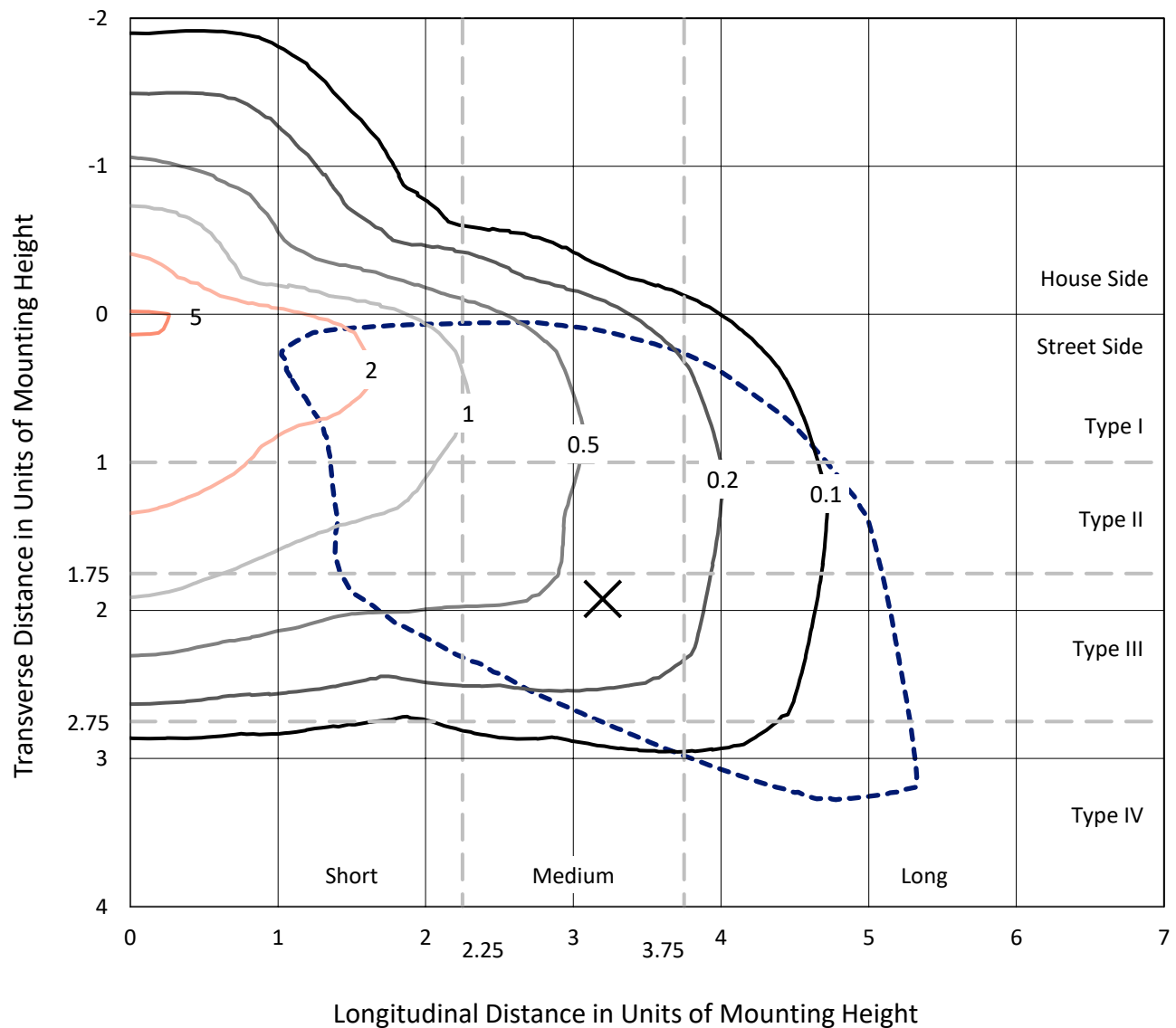
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

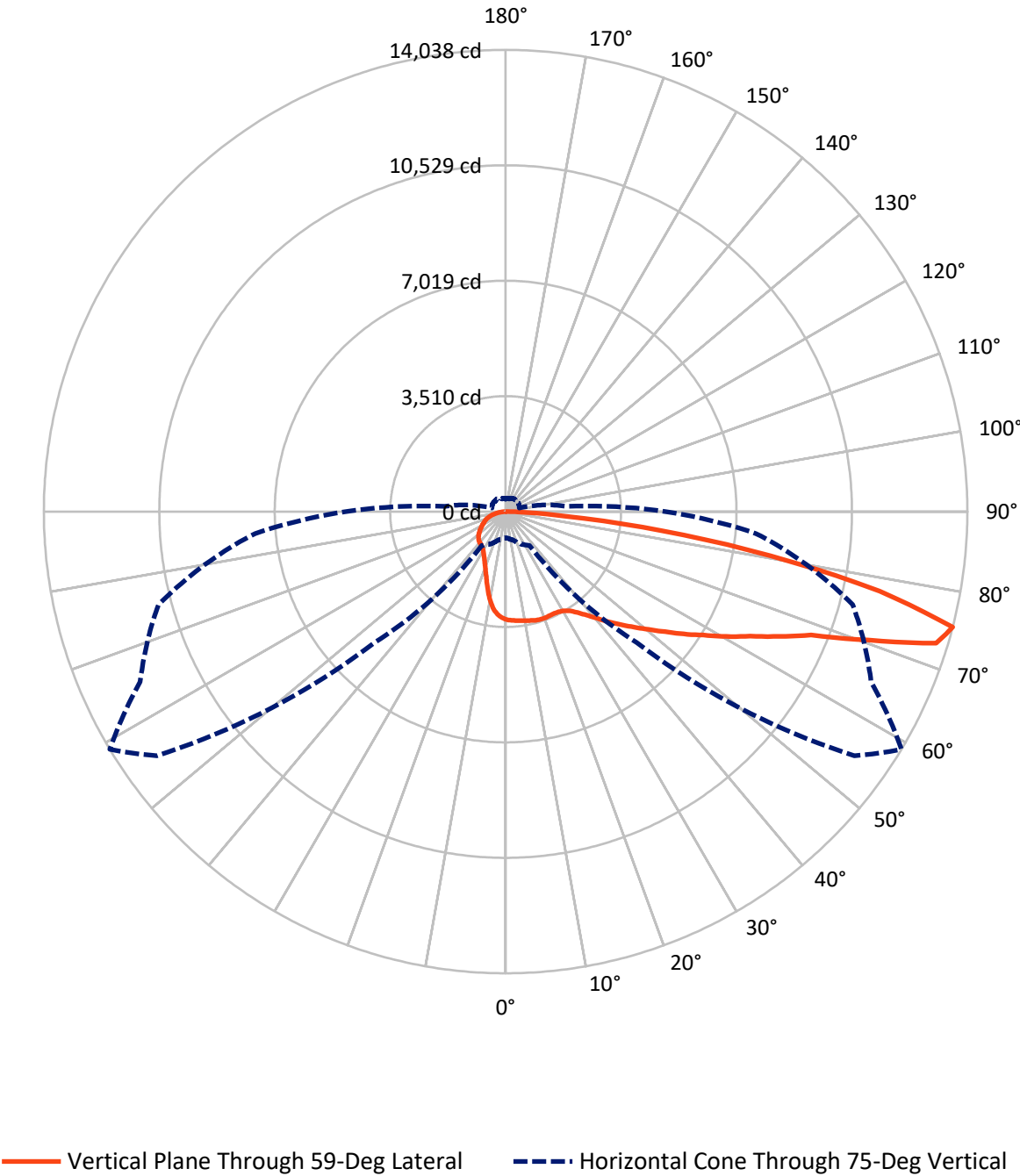
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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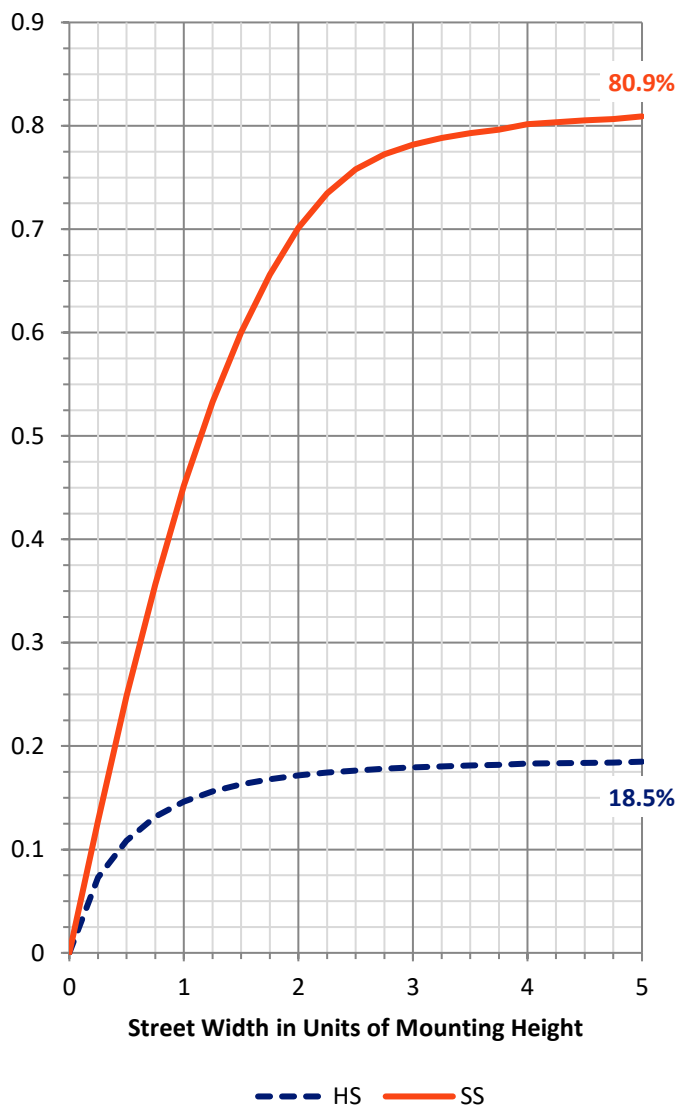
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3358.3   | 0.0    | 3358.3  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 14547.4  | 0.0    | 14547.4 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 17905.7  | 0.0    | 17905.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 294.7   | 1.6       |
| 10°-20°   | 753.3   | 4.2       |
| 20°-30°   | 1144.1  | 6.4       |
| 30°-40°   | 1700.7  | 9.5       |
| 40°-50°   | 2529.3  | 14.1      |
| 50°-60°   | 3433.2  | 19.2      |
| 60°-70°   | 4191.4  | 23.4      |
| 70°-80°   | 3289.3  | 18.4      |
| 80°-90°   | 569.8   | 3.2       |
| 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°    | 17905.7 | 100.0     |
| 0°-180°   | 17905.7 | 100.0     |

**Coefficient of Utilization**



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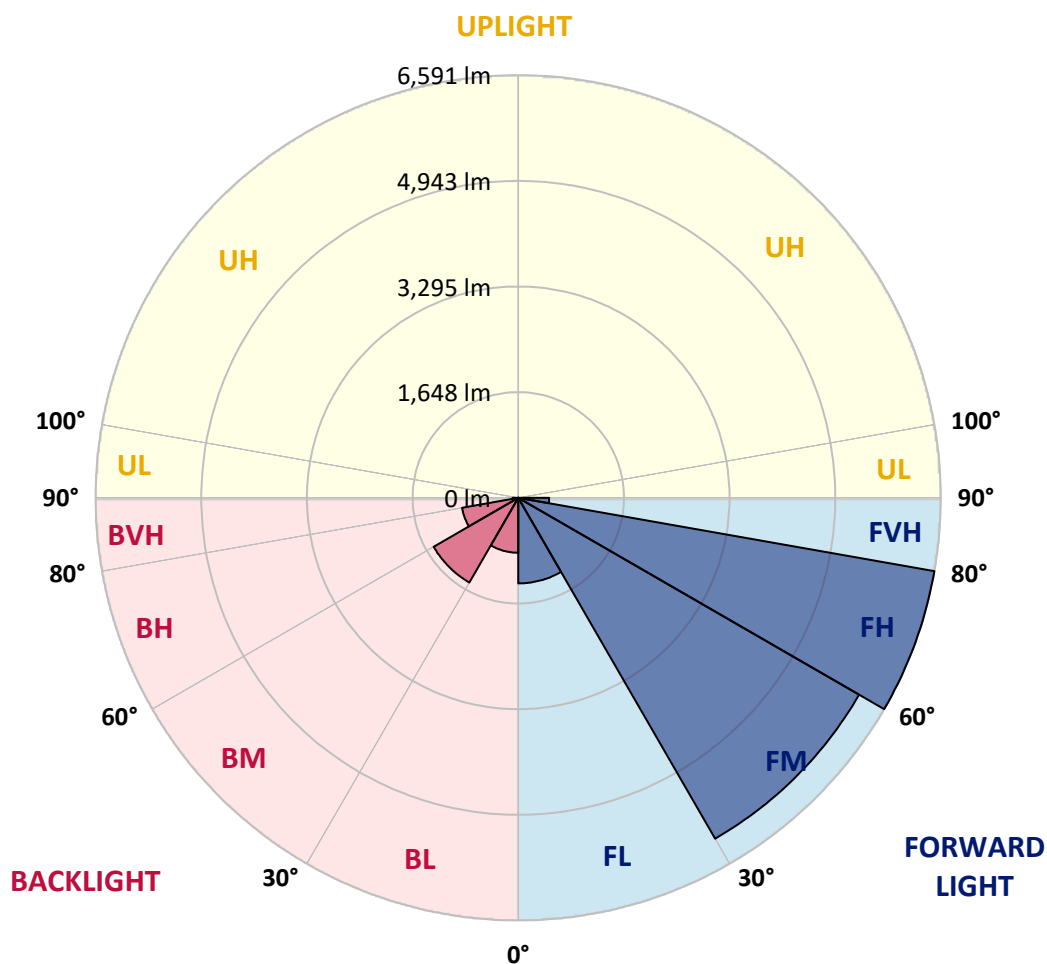
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1335.1 | 7.5       |                         |      |         |
| FM   | (30°-60°)   | 6138.8 | 34.3      |                         |      |         |
| FH   | (60°-80°)   | 6590.9 | 36.8      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 482.6  | 2.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 857.0  | 4.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1524.4 | 8.5       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 889.8  | 5.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 87.2   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 59°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0°    | 3286.6 | 3286.6 | 3286.6 | 3286.6 | 3286.6 | 3286.6 | 3286.6  | 3286.6  | 3286.6  | 3286.6  | 3286.6 |
| 2.5°  | 3314.4 | 3303.0 | 3314.4 | 3309.6 | 3307.8 | 3303.9 | 3304.9  | 3311.6  | 3307.8  | 3312.6  | 3296.2 |
| 5°    | 3292.3 | 3285.6 | 3297.1 | 3294.2 | 3306.8 | 3308.7 | 3321.2  | 3328.9  | 3333.7  | 3334.7  | 3322.2 |
| 7.5°  | 3255.7 | 3248.9 | 3265.3 | 3278.9 | 3305.8 | 3313.5 | 3339.6  | 3352.1  | 3358.8  | 3370.4  | 3352.1 |
| 10°   | 3121.8 | 3119.0 | 3159.5 | 3210.5 | 3274.1 | 3313.5 | 3353.0  | 3374.2  | 3384.8  | 3415.6  | 3394.4 |
| 12.5° | 2884.9 | 2888.8 | 2941.7 | 3039.9 | 3167.1 | 3294.2 | 3368.5  | 3399.2  | 3415.6  | 3454.1  | 3444.5 |
| 15°   | 2658.5 | 2657.5 | 2715.3 | 2820.4 | 2998.5 | 3209.5 | 3376.1  | 3429.1  | 3457.0  | 3513.9  | 3506.2 |
| 17.5° | 2527.5 | 2523.7 | 2564.1 | 2644.1 | 2809.7 | 3079.5 | 3356.9  | 3445.5  | 3505.2  | 3576.5  | 3569.8 |
| 20°   | 2503.5 | 2495.8 | 2516.9 | 2556.5 | 2673.9 | 2936.9 | 3306.8  | 3445.5  | 3543.7  | 3636.2  | 3632.4 |
| 22.5° | 2591.1 | 2578.6 | 2569.9 | 2565.1 | 2617.1 | 2819.4 | 3250.0  | 3434.0  | 3600.6  | 3722.0  | 3715.2 |
| 25°   | 2767.4 | 2748.1 | 2703.8 | 2660.5 | 2645.0 | 2766.4 | 3199.8  | 3431.1  | 3685.3  | 3837.5  | 3812.5 |
| 27.5° | 3052.4 | 3028.4 | 2938.8 | 2834.8 | 2741.4 | 2793.3 | 3177.7  | 3448.4  | 3778.8  | 3959.9  | 3909.8 |
| 30°   | 3406.0 | 3380.0 | 3267.3 | 3107.4 | 2939.8 | 2893.6 | 3205.7  | 3499.5  | 3898.2  | 4122.7  | 4024.4 |
| 32.5° | 3722.9 | 3694.0 | 3597.6 | 3434.9 | 3208.6 | 3066.9 | 3294.2  | 3596.7  | 4086.1  | 4349.0  | 4196.9 |
| 35°   | 4004.2 | 3970.4 | 3883.7 | 3733.5 | 3538.0 | 3310.6 | 3454.1  | 3769.1  | 4352.9  | 4716.9  | 4430.9 |
| 37.5° | 4279.7 | 4240.1 | 4145.7 | 3986.8 | 3850.0 | 3635.3 | 3674.7  | 3990.6  | 4707.3  | 5164.0  | 4741.0 |
| 40°   | 4587.9 | 4531.0 | 4416.4 | 4259.4 | 4126.5 | 4015.7 | 3964.7  | 4262.4  | 5067.6  | 5662.8  | 5128.3 |
| 42.5° | 4886.5 | 4832.6 | 4695.7 | 4561.9 | 4395.2 | 4363.4 | 4300.8  | 4580.2  | 5461.5  | 6210.9  | 5521.3 |
| 45°   | 5208.2 | 5143.7 | 4978.0 | 4808.5 | 4703.5 | 4594.7 | 4626.4  | 4898.1  | 5847.8  | 6769.6  | 5933.5 |
| 47.5° | 5509.7 | 5437.4 | 5242.0 | 5053.1 | 4995.3 | 4789.2 | 4925.0  | 5247.7  | 6249.4  | 7336.0  | 6342.0 |
| 50°   | 5672.5 | 5601.2 | 5438.4 | 5267.9 | 5222.7 | 5029.1 | 5248.6  | 5632.1  | 6670.4  | 7900.5  | 6733.9 |
| 52.5° | 5808.3 | 5731.3 | 5518.4 | 5424.0 | 5410.5 | 5290.1 | 5647.4  | 6071.3  | 7091.4  | 8399.4  | 7112.5 |
| 55°   | 5952.8 | 5867.1 | 5595.5 | 5510.7 | 5572.3 | 5582.9 | 6120.4  | 6569.2  | 7536.3  | 8885.8  | 7469.9 |
| 57.5° | 6119.5 | 6010.6 | 5669.6 | 5583.9 | 5730.3 | 5925.8 | 6663.6  | 7085.5  | 7973.7  | 9336.6  | 7787.7 |
| 60°   | 6276.5 | 6166.6 | 5812.2 | 5700.4 | 5900.8 | 6323.6 | 7286.8  | 7710.7  | 8468.8  | 9738.3  | 8088.3 |
| 62.5° | 6307.2 | 6216.7 | 5925.8 | 5924.8 | 6132.0 | 6788.0 | 8024.7  | 8341.7  | 8901.2  | 10135.2 | 8358.0 |
| 65°   | 5773.6 | 5716.8 | 5544.3 | 5916.2 | 6463.3 | 7456.4 | 8846.4  | 9148.8  | 9451.2  | 10482.0 | 8594.9 |
| 67.5° | 4394.3 | 4402.0 | 4389.5 | 5107.1 | 6195.5 | 8416.8 | 10036.0 | 10012.8 | 10130.4 | 10871.0 | 8867.6 |
| 70°   | 2009.3 | 2054.6 | 2349.3 | 3525.5 | 4963.6 | 8527.5 | 12002.9 | 11703.3 | 10982.8 | 11374.8 | 9103.5 |
| 72.5° | 1085.6 | 1120.2 | 1240.7 | 1707.9 | 2984.1 | 7581.6 | 13472.8 | 13685.6 | 12116.5 | 11713.9 | 8844.4 |
| 75°   | 796.6  | 815.9  | 899.6  | 1085.6 | 1253.2 | 5634.9 | 12945.9 | 14038.2 | 12258.1 | 10923.1 | 7637.5 |
| 77.5° | 596.2  | 605.0  | 673.3  | 860.2  | 641.5  | 2970.7 | 10344.2 | 11626.3 | 10493.4 | 8974.5  | 5641.7 |
| 80°   | 432.4  | 442.1  | 493.1  | 645.3  | 449.9  | 1086.5 | 7102.8  | 8160.5  | 7186.7  | 5720.6  | 2811.7 |
| 82.5° | 298.6  | 302.5  | 324.6  | 439.2  | 314.1  | 421.9  | 4030.2  | 4785.3  | 4011.8  | 2007.4  | 759.0  |
| 85°   | 180.1  | 184.9  | 194.5  | 256.2  | 178.2  | 200.4  | 1739.6  | 1799.3  | 1199.2  | 479.7   | 236.0  |
| 87.5° | 74.2   | 79.0   | 86.7   | 107.9  | 70.3   | 55.9   | 287.0   | 360.3   | 224.5   | 140.6   | 73.2   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3286.6 | 3286.6 | 3286.6 | 3286.6 | 3286.6 | 3286.6 | 3286.6 | 3286.6 | 3286.6 | 3286.6 | 3286.6 |
| 2.5°  | 3291.4 | 3284.6 | 3266.4 | 3241.3 | 3218.2 | 3189.3 | 3176.8 | 3166.1 | 3156.5 | 3138.2 | 3129.5 |
| 5°    | 3311.6 | 3293.3 | 3244.1 | 3180.6 | 3108.3 | 3029.4 | 2952.3 | 2899.3 | 2854.1 | 2820.4 | 2792.4 |
| 7.5°  | 3342.4 | 3307.8 | 3218.2 | 3088.1 | 2922.5 | 2752.9 | 2599.8 | 2491.0 | 2409.1 | 2379.2 | 2327.2 |
| 10°   | 3374.2 | 3332.8 | 3176.8 | 2947.5 | 2661.4 | 2400.3 | 2197.1 | 2085.4 | 2019.9 | 1998.7 | 1966.0 |
| 12.5° | 3411.8 | 3351.1 | 3112.2 | 2751.9 | 2369.6 | 2083.5 | 1906.2 | 1840.7 | 1807.1 | 1795.5 | 1798.4 |
| 15°   | 3466.7 | 3366.5 | 3014.9 | 2507.3 | 2091.2 | 1852.3 | 1737.7 | 1692.4 | 1675.1 | 1674.1 | 1677.9 |
| 17.5° | 3508.1 | 3369.4 | 2863.6 | 2245.3 | 1877.4 | 1712.7 | 1618.3 | 1600.8 | 1612.4 | 1629.7 | 1636.5 |
| 20°   | 3554.3 | 3343.3 | 2665.3 | 2006.4 | 1727.1 | 1590.3 | 1550.8 | 1562.4 | 1590.3 | 1615.3 | 1624.0 |
| 22.5° | 3587.1 | 3296.2 | 2425.5 | 1820.5 | 1597.1 | 1520.0 | 1518.0 | 1542.1 | 1557.6 | 1570.1 | 1576.9 |
| 25°   | 3616.0 | 3216.2 | 2171.2 | 1664.5 | 1490.1 | 1477.6 | 1498.8 | 1491.1 | 1480.5 | 1491.1 | 1497.8 |
| 27.5° | 3637.2 | 3090.1 | 1943.8 | 1527.7 | 1415.0 | 1448.7 | 1436.2 | 1418.8 | 1417.9 | 1423.6 | 1433.3 |
| 30°   | 3630.4 | 2921.5 | 1757.0 | 1397.7 | 1362.0 | 1394.7 | 1364.9 | 1362.0 | 1359.1 | 1362.0 | 1372.6 |
| 32.5° | 3630.4 | 2729.8 | 1613.5 | 1308.1 | 1328.3 | 1315.8 | 1312.9 | 1306.2 | 1294.6 | 1293.7 | 1306.2 |
| 35°   | 3650.6 | 2538.1 | 1490.1 | 1259.9 | 1300.4 | 1270.5 | 1272.4 | 1256.0 | 1231.9 | 1220.5 | 1231.9 |
| 37.5° | 3692.0 | 2384.0 | 1367.8 | 1236.8 | 1251.2 | 1250.3 | 1242.6 | 1214.6 | 1172.3 | 1135.7 | 1148.2 |
| 40°   | 3792.3 | 2338.7 | 1284.0 | 1226.2 | 1228.2 | 1239.6 | 1219.4 | 1165.5 | 1069.2 | 1009.4 | 1017.2 |
| 42.5° | 3949.2 | 2414.8 | 1265.7 | 1200.2 | 1212.7 | 1224.3 | 1184.8 | 1059.5 | 991.2  | 955.5  | 955.5  |
| 45°   | 4148.7 | 2547.7 | 1305.1 | 1162.7 | 1176.1 | 1196.4 | 1078.8 | 1019.1 | 988.3  | 989.2  | 994.0  |
| 47.5° | 4401.0 | 2687.4 | 1378.4 | 1129.9 | 1123.1 | 1134.7 | 1008.5 | 971.9  | 929.5  | 940.1  | 967.1  |
| 50°   | 4692.9 | 2829.0 | 1447.7 | 1085.6 | 1064.4 | 1026.8 | 963.2  | 928.5  | 874.6  | 849.6  | 856.3  |
| 52.5° | 5008.9 | 2965.8 | 1475.7 | 1031.7 | 1000.8 | 957.5  | 932.4  | 890.0  | 824.5  | 783.1  | 782.2  |
| 55°   | 5308.4 | 3090.1 | 1444.8 | 967.1  | 937.3  | 903.5  | 899.6  | 873.6  | 803.3  | 745.6  | 745.6  |
| 57.5° | 5591.6 | 3194.1 | 1367.8 | 901.6  | 872.7  | 852.5  | 878.4  | 865.9  | 777.4  | 703.2  | 699.4  |
| 60°   | 5831.4 | 3265.3 | 1256.0 | 835.2  | 814.9  | 804.3  | 843.8  | 840.0  | 740.8  | 657.8  | 655.0  |
| 62.5° | 6022.2 | 3293.3 | 1132.7 | 771.5  | 766.7  | 747.4  | 795.6  | 795.6  | 694.5  | 613.6  | 610.7  |
| 65°   | 6171.4 | 3266.4 | 1007.6 | 708.9  | 718.5  | 689.7  | 736.9  | 731.1  | 645.3  | 574.1  | 570.2  |
| 67.5° | 6303.4 | 3177.7 | 868.8  | 647.3  | 669.4  | 632.8  | 675.3  | 661.7  | 591.4  | 534.6  | 530.7  |
| 70°   | 6362.2 | 2971.6 | 710.8  | 585.7  | 612.6  | 577.0  | 613.6  | 588.6  | 530.7  | 492.2  | 484.5  |
| 72.5° | 5890.2 | 2469.7 | 559.6  | 521.1  | 544.3  | 515.4  | 547.1  | 518.2  | 465.2  | 447.9  | 433.5  |
| 75°   | 4873.0 | 1853.3 | 430.6  | 450.8  | 468.1  | 446.0  | 467.2  | 446.0  | 397.8  | 410.3  | 374.7  |
| 77.5° | 3538.9 | 1251.2 | 329.4  | 376.6  | 384.4  | 372.8  | 391.0  | 367.0  | 323.7  | 320.7  | 306.3  |
| 80°   | 1759.8 | 733.0  | 258.2  | 297.7  | 294.8  | 287.0  | 308.2  | 296.6  | 260.0  | 275.5  | 272.5  |
| 82.5° | 509.5  | 314.1  | 187.8  | 209.0  | 203.3  | 205.2  | 220.6  | 226.3  | 339.1  | 336.2  | 343.9  |
| 85°   | 159.9  | 123.3  | 112.6  | 116.5  | 110.8  | 113.7  | 130.1  | 258.2  | 238.9  | 139.7  | 151.2  |
| 87.5° | 41.4   | 42.3   | 28.0   | 29.8   | 30.9   | 36.6   | 41.4   | 157.0  | 75.1   | 49.1   | 52.0   |
| 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)