

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: P970438

Luminaire Tested: **NAV-SB6B-750-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6B-750-U-T4W-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28523.7 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

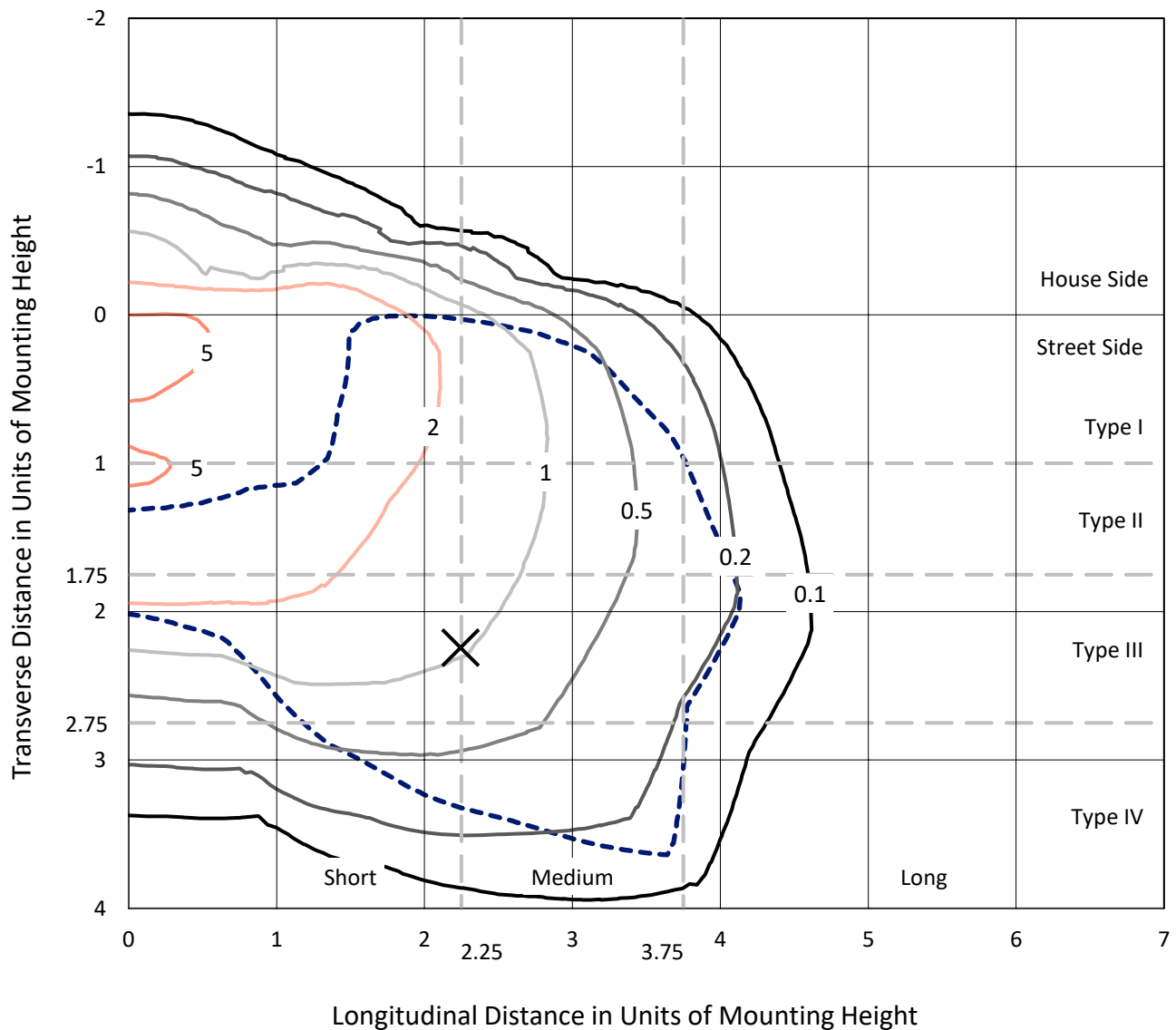
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

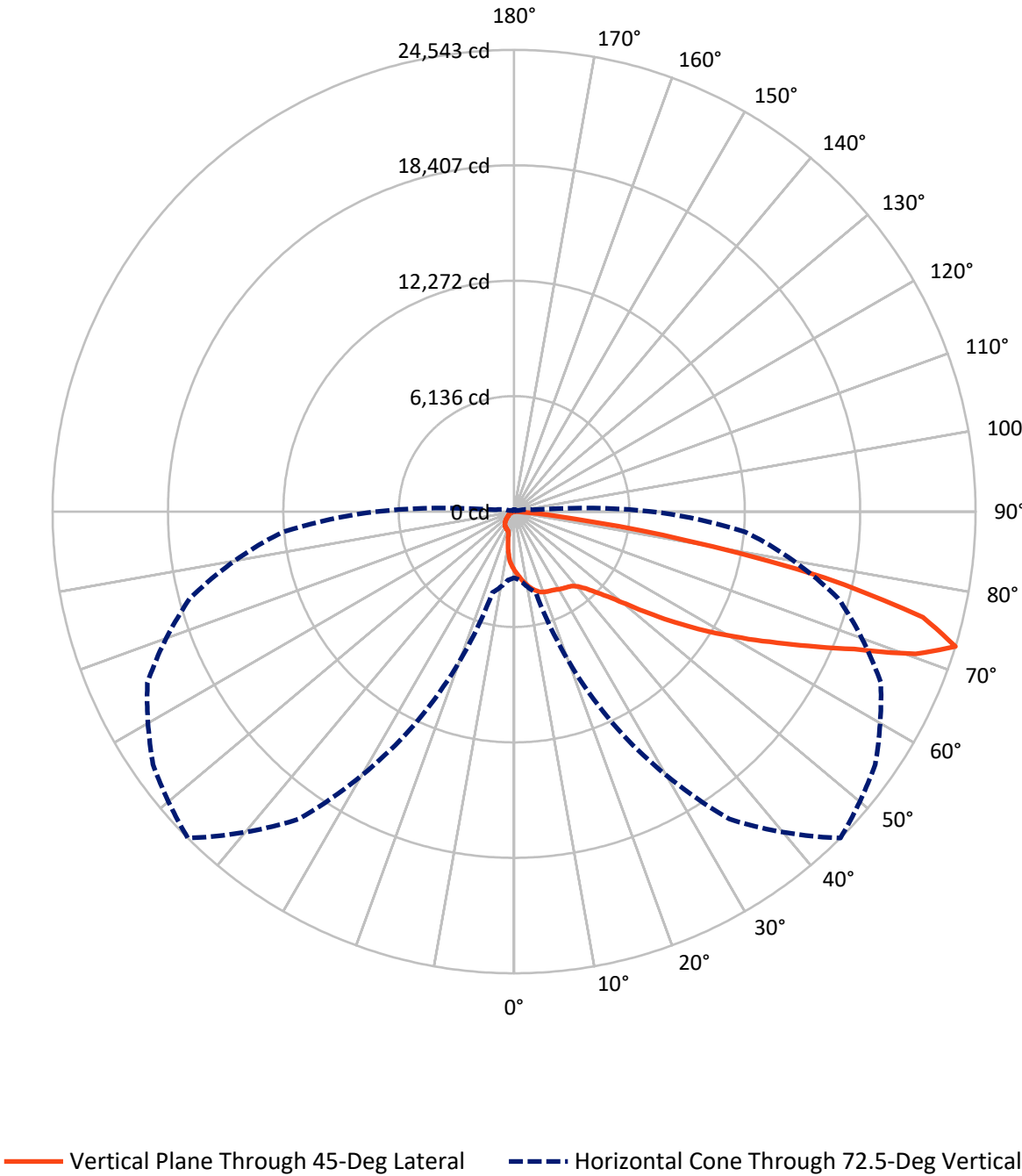
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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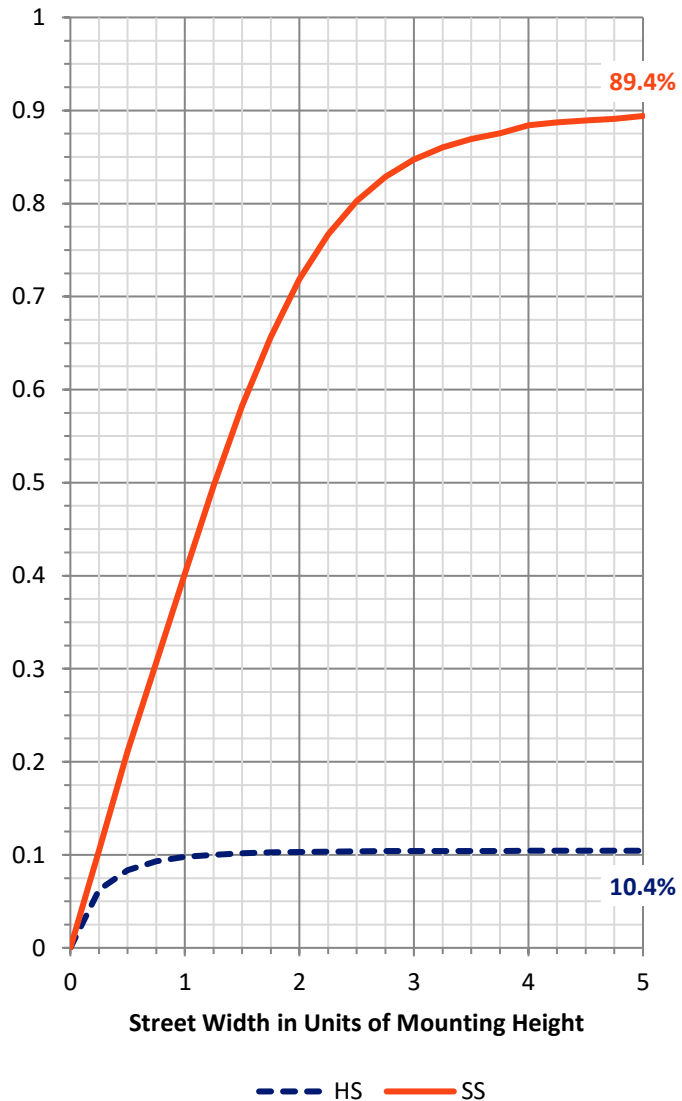
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2997.0   | 0.0    | 2997.0  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 25526.6  | 0.0    | 25526.6 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 28523.7  | 0.0    | 28523.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 294.4   | 1.0       |
| 10°-20°   | 860.5   | 3.0       |
| 20°-30°   | 1413.0  | 5.0       |
| 30°-40°   | 2004.0  | 7.0       |
| 40°-50°   | 3312.4  | 11.6      |
| 50°-60°   | 5950.4  | 20.9      |
| 60°-70°   | 8262.4  | 29.0      |
| 70°-80°   | 5993.3  | 21.0      |
| 80°-90°   | 433.3   | 1.5       |
| 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°    | 28523.7 | 100.0     |
| 0°-180°   | 28523.7 | 100.0     |

**Coefficient of Utilization**



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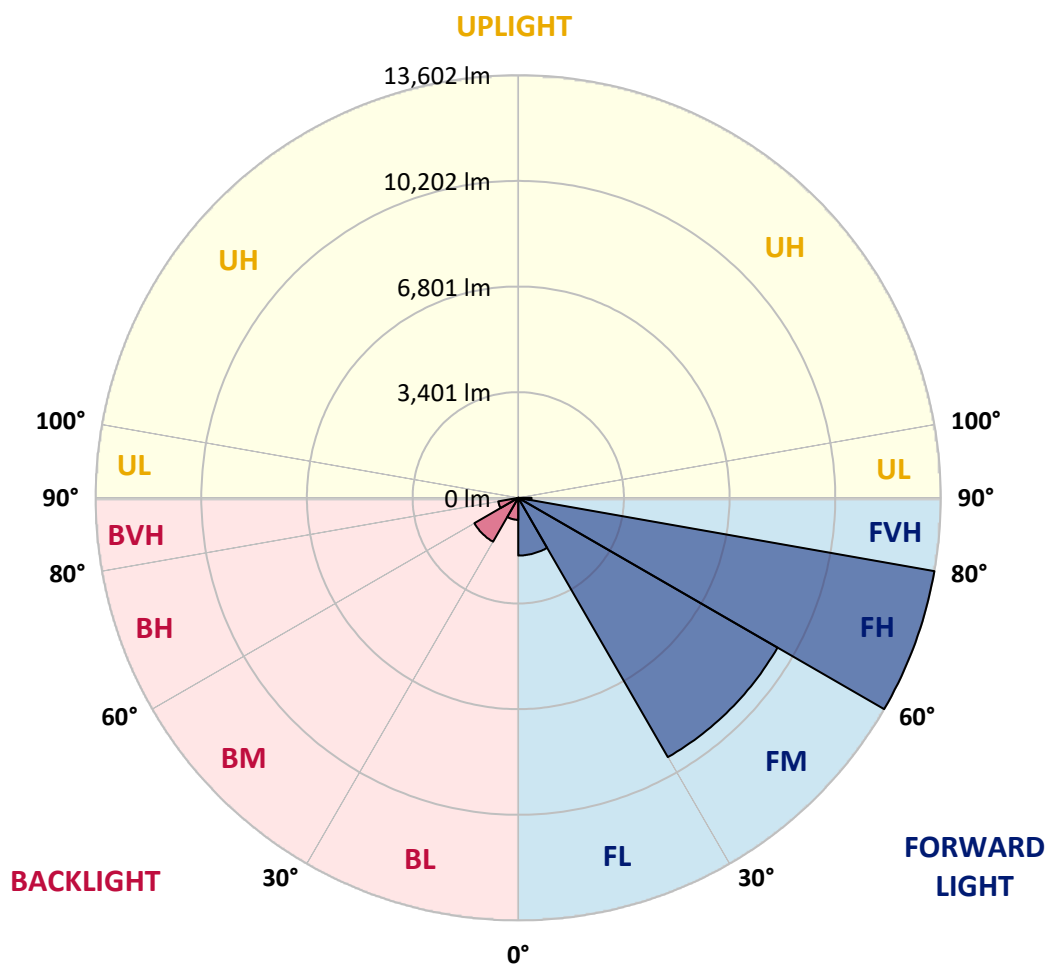
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1858.0  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 9636.8  | 33.8      |                         |      |         |
| FH   | (60°-80°)   | 13602.1 | 47.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 429.6   | 1.5       |                         |      | G3/500  |
| BL   | (0°-30°)    | 709.9   | 2.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1630.0  | 5.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 653.6   | 2.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 3.6     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3124.8  | 3124.8  | 3124.8  | 3124.8  | 3124.8  | 3124.8  | 3124.8  | 3124.8  | 3124.8  | 3124.8  | 3124.8  |
| 2.5°  | 3412.9  | 3418.8  | 3414.9  | 3391.5  | 3352.7  | 3331.2  | 3319.6  | 3280.6  | 3255.3  | 3210.5  | 3163.8  |
| 5°    | 3726.4  | 3749.8  | 3736.1  | 3689.5  | 3615.5  | 3562.9  | 3547.3  | 3467.5  | 3395.4  | 3311.8  | 3214.4  |
| 7.5°  | 4059.4  | 4071.0  | 4045.8  | 3985.4  | 3886.1  | 3796.5  | 3782.9  | 3672.0  | 3557.1  | 3428.5  | 3296.2  |
| 10°   | 4347.5  | 4361.2  | 4322.2  | 4234.6  | 4121.6  | 4010.7  | 3991.2  | 3868.6  | 3732.2  | 3574.6  | 3405.2  |
| 12.5° | 4588.9  | 4602.6  | 4551.9  | 4446.8  | 4322.2  | 4207.3  | 4187.8  | 4059.4  | 3909.5  | 3734.2  | 3524.0  |
| 15°   | 4772.0  | 4797.2  | 4729.1  | 4616.2  | 4481.8  | 4367.0  | 4357.3  | 4230.7  | 4084.6  | 3890.0  | 3666.1  |
| 17.5° | 4879.0  | 4904.3  | 4840.0  | 4703.8  | 4588.9  | 4491.5  | 4479.9  | 4374.8  | 4238.5  | 4051.6  | 3804.3  |
| 20°   | 4896.5  | 4919.9  | 4851.7  | 4733.0  | 4637.6  | 4559.7  | 4553.9  | 4477.9  | 4378.7  | 4199.5  | 3954.2  |
| 22.5° | 4843.9  | 4873.2  | 4810.8  | 4715.5  | 4649.3  | 4608.4  | 4600.6  | 4557.8  | 4501.3  | 4349.5  | 4094.4  |
| 25°   | 4789.4  | 4812.8  | 4766.1  | 4682.4  | 4647.3  | 4643.5  | 4649.3  | 4641.5  | 4629.8  | 4501.3  | 4258.0  |
| 27.5° | 4785.5  | 4810.8  | 4758.4  | 4678.5  | 4659.0  | 4699.9  | 4705.8  | 4742.8  | 4752.5  | 4639.6  | 4415.7  |
| 30°   | 4818.6  | 4836.2  | 4785.5  | 4701.9  | 4692.1  | 4785.5  | 4787.5  | 4853.7  | 4869.3  | 4756.4  | 4571.4  |
| 32.5° | 4890.7  | 4910.2  | 4859.5  | 4736.9  | 4723.3  | 4853.7  | 4859.5  | 4947.2  | 4972.5  | 4880.9  | 4735.0  |
| 35°   | 5060.1  | 5083.5  | 5025.1  | 4834.2  | 4785.5  | 4918.0  | 4935.5  | 5038.7  | 5089.3  | 5013.4  | 4904.3  |
| 37.5° | 5482.6  | 5414.5  | 5334.6  | 5030.9  | 4927.7  | 5019.2  | 5048.4  | 5169.1  | 5258.7  | 5171.0  | 5106.9  |
| 40°   | 6532.0  | 6317.8  | 6068.6  | 5365.8  | 5176.9  | 5235.3  | 5258.7  | 5379.4  | 5502.0  | 5416.4  | 5385.2  |
| 42.5° | 8107.0  | 7854.0  | 7452.9  | 6136.8  | 5552.6  | 5581.8  | 5599.4  | 5704.5  | 5877.8  | 5809.7  | 5817.5  |
| 45°   | 9510.8  | 9419.2  | 9010.5  | 7452.9  | 6255.5  | 6111.5  | 6132.9  | 6187.4  | 6442.4  | 6417.1  | 6467.7  |
| 47.5° | 10589.4 | 10536.8 | 10221.4 | 8963.7  | 7443.1  | 6759.8  | 6820.1  | 6845.5  | 7213.4  | 7302.9  | 7439.2  |
| 50°   | 11418.8 | 11399.3 | 11117.0 | 10307.1 | 8994.9  | 7715.7  | 7737.1  | 7682.6  | 8233.6  | 8455.5  | 8714.4  |
| 52.5° | 12201.5 | 12267.6 | 12059.3 | 11555.0 | 10651.7 | 8967.6  | 8963.7  | 8706.7  | 9450.4  | 9785.3  | 10227.2 |
| 55°   | 12908.2 | 12931.5 | 12952.9 | 12828.4 | 12318.2 | 10392.8 | 10355.8 | 9935.2  | 10861.9 | 11208.5 | 11687.5 |
| 57.5° | 13572.1 | 13581.9 | 13772.6 | 14027.6 | 14053.0 | 11923.0 | 11854.8 | 11350.6 | 12403.9 | 12651.2 | 12945.1 |
| 60°   | 14017.9 | 14062.7 | 14465.7 | 15174.4 | 15484.0 | 13502.0 | 13465.0 | 12951.0 | 13973.1 | 14088.0 | 14033.5 |
| 62.5° | 13375.4 | 13648.0 | 14664.4 | 16070.1 | 16835.1 | 15252.3 | 15234.8 | 14751.9 | 15624.2 | 15530.7 | 15063.4 |
| 65°   | 10826.9 | 11288.3 | 13075.6 | 16675.5 | 18161.1 | 17207.0 | 17232.3 | 16718.4 | 17319.9 | 17016.2 | 15900.6 |
| 67.5° | 7573.6  | 8060.3  | 10174.7 | 16724.2 | 19642.6 | 19502.5 | 19648.4 | 18842.5 | 19120.9 | 18439.4 | 16099.2 |
| 70°   | 5237.2  | 5488.4  | 6864.9  | 15676.8 | 20797.1 | 22664.3 | 22660.4 | 21451.3 | 20912.0 | 19087.8 | 15086.8 |
| 72.5° | 3522.0  | 3652.5  | 4458.4  | 12437.0 | 19948.3 | 24543.1 | 24430.2 | 23445.0 | 21515.6 | 17851.5 | 12326.0 |
| 75°   | 1485.5  | 1581.0  | 2063.7  | 6989.5  | 15781.8 | 22454.1 | 22148.3 | 20719.2 | 19117.0 | 14056.8 | 7690.4  |
| 77.5° | 471.2   | 512.1   | 813.8   | 2501.8  | 8693.0  | 16878.0 | 16554.8 | 12939.3 | 12812.8 | 7051.8  | 2811.4  |
| 80°   | 223.9   | 260.9   | 457.6   | 1004.6  | 3420.7  | 9179.8  | 9135.0  | 5870.0  | 5511.7  | 1904.1  | 564.6   |
| 82.5° | 97.4    | 114.9   | 253.1   | 537.3   | 1530.3  | 3274.8  | 3341.0  | 1997.5  | 1652.9  | 722.3   | 173.3   |
| 85°   | 31.2    | 40.9    | 116.8   | 247.2   | 646.4   | 813.8   | 804.1   | 475.1   | 665.8   | 393.3   | 60.4    |
| 87.5° | 0.0     | 0.0     | 38.9    | 56.5    | 66.2    | 46.7    | 52.6    | 40.9    | 184.9   | 109.1   | 21.4    |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3124.8  | 3124.8 | 3124.8 | 3124.8 | 3124.8 | 3124.8 | 3124.8 | 3124.8 | 3124.8 | 3124.8 | 3124.8 |
| 2.5°  | 3140.4  | 3109.2 | 3054.7 | 3004.2 | 2959.4 | 2914.6 | 2887.3 | 2848.4 | 2844.5 | 2844.5 | 2854.2 |
| 5°    | 3161.8  | 3111.2 | 3013.8 | 2910.7 | 2791.9 | 2678.9 | 2566.1 | 2457.0 | 2422.0 | 2396.7 | 2408.3 |
| 7.5°  | 3224.1  | 3144.3 | 2990.5 | 2793.8 | 2568.0 | 2320.7 | 2147.5 | 1960.5 | 1888.6 | 1849.6 | 1855.5 |
| 10°   | 3313.7  | 3204.7 | 2971.1 | 2626.5 | 2260.4 | 1923.6 | 1676.3 | 1473.8 | 1395.9 | 1362.8 | 1362.8 |
| 12.5° | 3412.9  | 3278.7 | 2936.0 | 2418.1 | 1923.6 | 1520.6 | 1279.1 | 1185.7 | 1174.0 | 1174.0 | 1174.0 |
| 15°   | 3531.7  | 3368.2 | 2875.6 | 2172.8 | 1571.2 | 1203.2 | 1117.6 | 1121.5 | 1133.1 | 1140.9 | 1140.9 |
| 17.5° | 3654.4  | 3463.6 | 2780.2 | 1898.3 | 1259.6 | 1082.5 | 1084.4 | 1090.3 | 1100.0 | 1107.8 | 1107.8 |
| 20°   | 3786.8  | 3559.0 | 2653.6 | 1606.2 | 1080.6 | 1047.4 | 1053.3 | 1059.1 | 1066.9 | 1070.8 | 1072.8 |
| 22.5° | 3928.9  | 3648.6 | 2503.8 | 1320.0 | 1020.2 | 1018.2 | 1020.2 | 1026.0 | 1035.8 | 1035.8 | 1039.7 |
| 25°   | 4080.7  | 3747.8 | 2332.4 | 1111.7 | 989.0  | 989.0  | 992.9  | 996.8  | 1004.6 | 1004.6 | 1006.6 |
| 27.5° | 4236.5  | 3839.3 | 2151.4 | 1002.7 | 961.8  | 959.8  | 959.8  | 965.7  | 969.5  | 971.5  | 973.4  |
| 30°   | 4407.9  | 3946.5 | 1970.3 | 979.3  | 940.3  | 930.6  | 924.8  | 928.6  | 932.5  | 934.5  | 938.4  |
| 32.5° | 4583.1  | 4049.7 | 1808.7 | 989.0  | 918.9  | 901.4  | 882.0  | 878.1  | 878.1  | 885.8  | 891.6  |
| 35°   | 4777.7  | 4162.5 | 1684.1 | 1022.1 | 907.2  | 858.6  | 827.5  | 810.0  | 811.9  | 823.6  | 829.4  |
| 37.5° | 5011.4  | 4298.8 | 1592.5 | 1051.3 | 899.4  | 810.0  | 759.3  | 737.9  | 724.3  | 737.9  | 734.0  |
| 40°   | 5317.1  | 4499.3 | 1526.4 | 1074.7 | 889.7  | 753.5  | 685.3  | 650.3  | 624.9  | 632.7  | 628.8  |
| 42.5° | 5766.9  | 4814.7 | 1501.1 | 1076.7 | 868.4  | 687.3  | 609.4  | 562.6  | 525.7  | 527.7  | 519.9  |
| 45°   | 6397.6  | 5313.2 | 1631.5 | 1051.3 | 821.6  | 615.2  | 529.6  | 467.3  | 443.9  | 438.1  | 430.3  |
| 47.5° | 7262.0  | 6039.4 | 1933.4 | 998.8  | 753.5  | 545.1  | 451.7  | 399.1  | 381.6  | 371.9  | 366.0  |
| 50°   | 8420.5  | 6971.9 | 2268.2 | 940.3  | 685.3  | 479.0  | 387.4  | 354.3  | 342.7  | 332.9  | 331.0  |
| 52.5° | 9763.8  | 7918.2 | 2542.7 | 882.0  | 617.2  | 420.6  | 346.6  | 327.1  | 317.3  | 309.5  | 307.6  |
| 55°   | 10996.3 | 8570.4 | 2527.1 | 819.7  | 550.9  | 373.8  | 317.3  | 305.7  | 294.0  | 286.2  | 282.3  |
| 57.5° | 11763.4 | 8662.0 | 2083.2 | 751.5  | 475.1  | 336.8  | 290.1  | 282.3  | 268.7  | 258.9  | 257.0  |
| 60°   | 12115.8 | 8140.1 | 1460.2 | 661.9  | 399.1  | 301.8  | 260.9  | 257.0  | 239.4  | 225.8  | 221.9  |
| 62.5° | 12180.1 | 7170.6 | 973.4  | 550.9  | 332.9  | 268.7  | 231.6  | 225.8  | 202.4  | 179.1  | 167.5  |
| 65°   | 11919.1 | 5784.4 | 673.6  | 430.3  | 284.2  | 233.6  | 198.5  | 186.9  | 161.6  | 138.3  | 130.5  |
| 67.5° | 11093.7 | 4061.4 | 469.2  | 309.5  | 241.4  | 184.9  | 157.7  | 153.9  | 134.4  | 114.9  | 109.1  |
| 70°   | 9580.9  | 2314.9 | 313.4  | 231.6  | 190.8  | 126.6  | 124.6  | 128.5  | 109.1  | 93.5   | 85.7   |
| 72.5° | 7345.8  | 1059.1 | 194.6  | 169.4  | 130.5  | 85.7   | 99.3   | 101.3  | 83.7   | 70.1   | 62.3   |
| 75°   | 4324.2  | 453.7  | 122.7  | 109.1  | 66.2   | 56.5   | 72.1   | 74.0   | 56.5   | 44.8   | 38.9   |
| 77.5° | 1471.9  | 171.4  | 77.9   | 64.3   | 33.1   | 31.2   | 46.7   | 46.7   | 31.2   | 17.5   | 13.6   |
| 80°   | 334.9   | 64.3   | 38.9   | 25.3   | 15.6   | 13.6   | 15.6   | 13.6   | 7.8    | 1.9    | 0.0    |
| 82.5° | 95.4    | 25.3   | 15.6   | 9.7    | 5.8    | 5.8    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 27.3    | 11.7   | 3.9    | 3.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 11.7    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)