

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: P969876

Luminaire Tested: **NAV-SB6A-740-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969876  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-740-U-T3R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30282.6 lumens  
Efficiency: N/A  
Efficacy: 177.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 170.9  
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



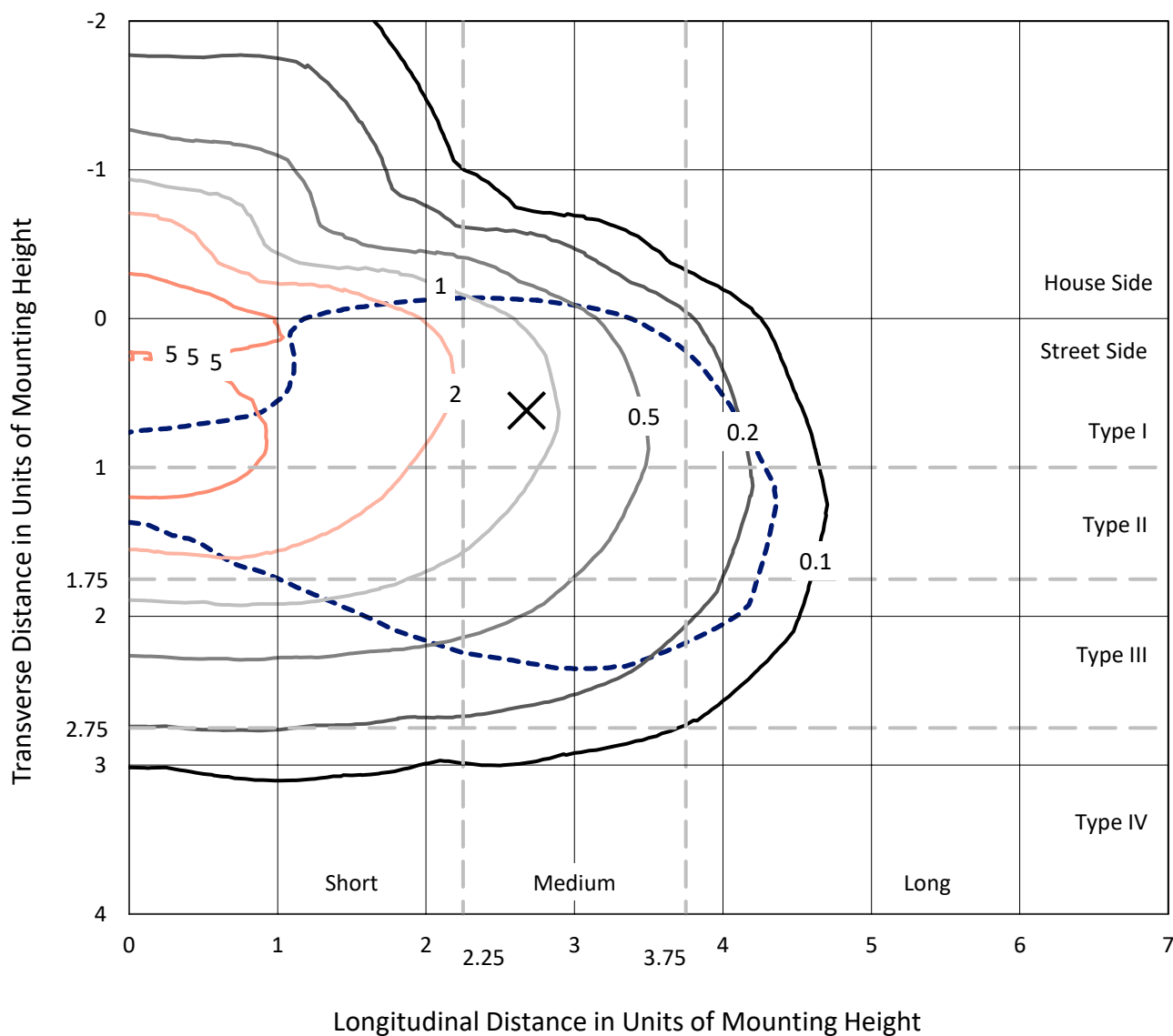
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

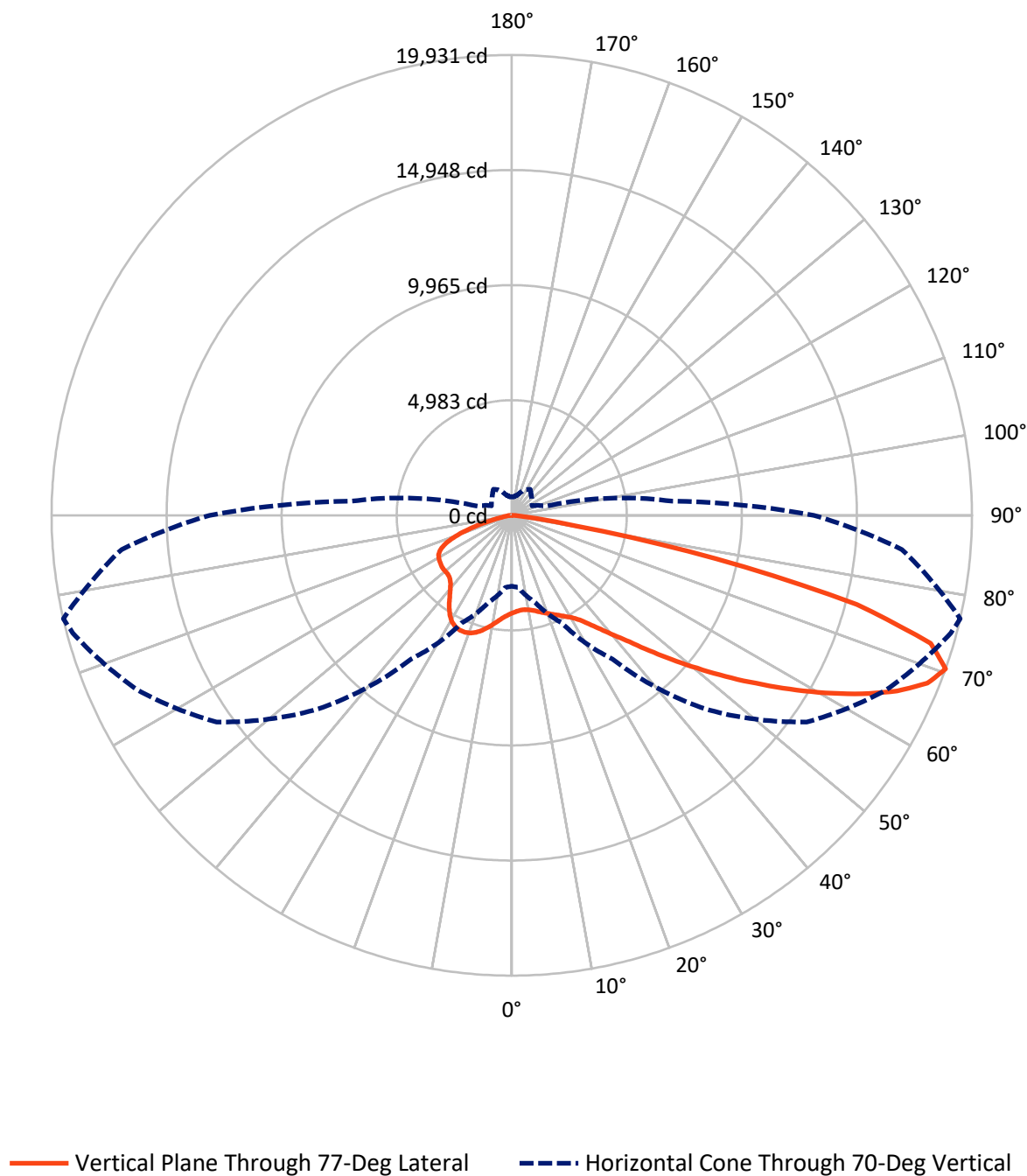


Based on 25 foot mounting height. Maximum calculated value = 8 fc

Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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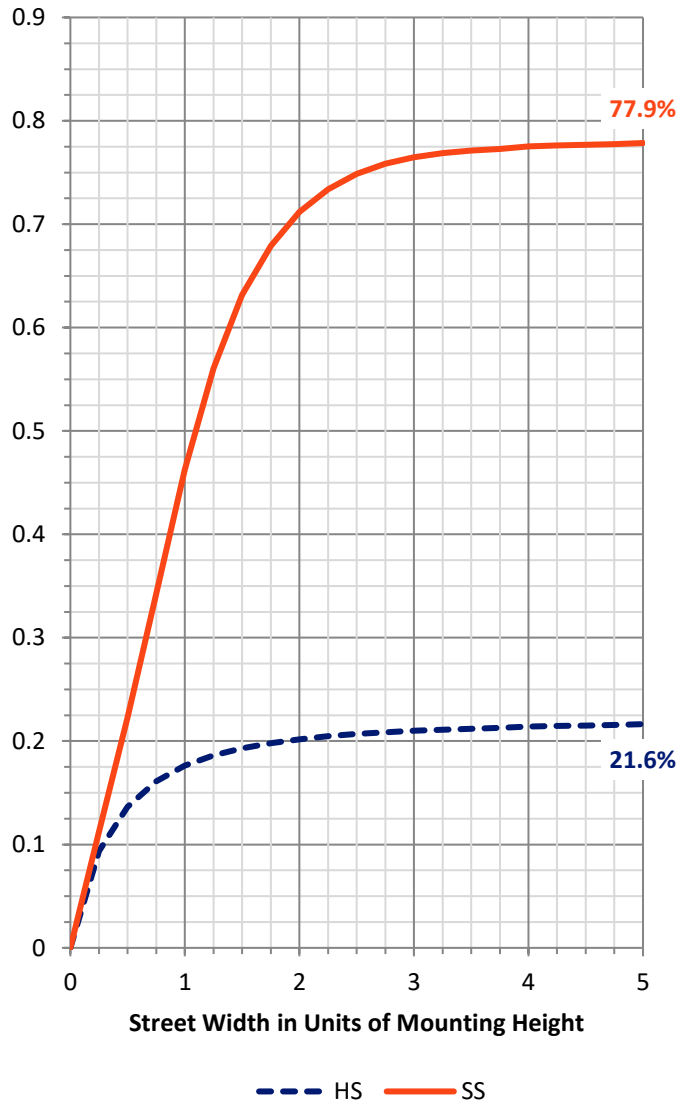
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6631.4   | 0.0    | 6631.4  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 23651.2  | 0.0    | 23651.2 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 30282.6  | 0.0    | 30282.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 402.9   | 1.3       |
| 10°-20°   | 1162.9  | 3.8       |
| 20°-30°   | 1988.7  | 6.6       |
| 30°-40°   | 3198.0  | 10.6      |
| 40°-50°   | 4992.9  | 16.5      |
| 50°-60°   | 6669.3  | 22.0      |
| 60°-70°   | 7108.5  | 23.5      |
| 70°-80°   | 4375.9  | 14.5      |
| 80°-90°   | 383.4   | 1.3       |
| 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°    | 30282.6 | 100.0     |
| 0°-180°   | 30282.6 | 100.0     |

**Coefficient of Utilization**



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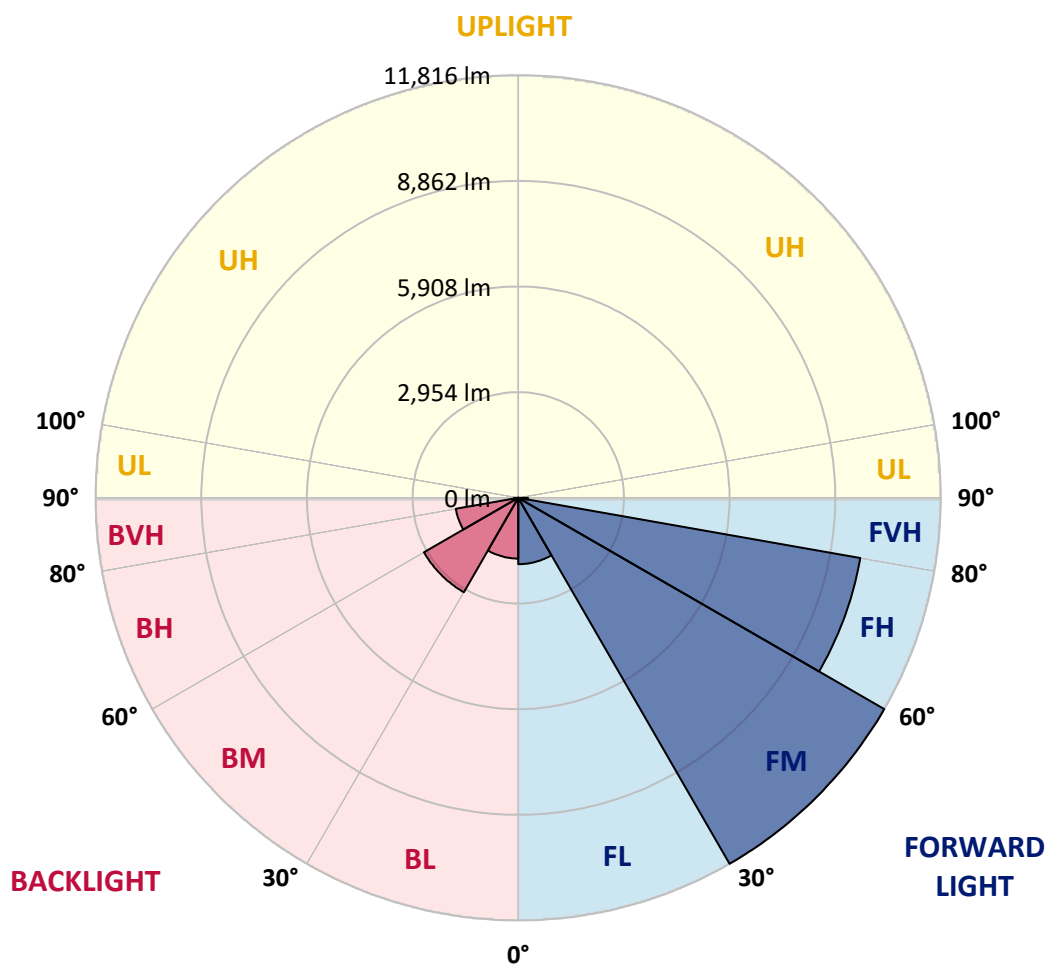
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1855.3  | 6.1       |                         |      |          |
| FM   | (30°-60°)   | 11815.6 | 39.0      |                         |      |          |
| FH   | (60°-80°)   | 9712.1  | 32.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 268.1   | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1699.2  | 5.6       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3044.6  | 10.1      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1772.3  | 5.9       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 115.3   | 0.4       |                         |      | 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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4224.7  | 4224.7  | 4224.7  | 4224.7  | 4224.7  | 4224.7  | 4224.7  | 4224.7  | 4224.7  | 4224.7  | 4224.7  |
| 2.5°  | 3894.4  | 3892.8  | 3912.9  | 3919.2  | 3956.4  | 3982.7  | 4032.3  | 4085.1  | 4153.4  | 4161.1  | 4203.0  |
| 5°    | 3669.5  | 3669.5  | 3692.8  | 3717.6  | 3765.6  | 3818.3  | 3894.4  | 3985.8  | 4103.7  | 4122.3  | 4226.3  |
| 7.5°  | 3478.7  | 3491.2  | 3511.2  | 3559.3  | 3615.2  | 3691.2  | 3807.5  | 3937.7  | 4092.8  | 4122.3  | 4289.8  |
| 10°   | 3325.2  | 3339.1  | 3363.9  | 3402.7  | 3486.4  | 3591.9  | 3743.9  | 3911.4  | 4119.3  | 4165.8  | 4382.9  |
| 12.5° | 3277.1  | 3291.1  | 3305.0  | 3334.4  | 3412.0  | 3536.0  | 3717.6  | 3923.8  | 4182.8  | 4229.4  | 4510.1  |
| 15°   | 3388.8  | 3405.8  | 3395.0  | 3387.2  | 3427.5  | 3540.8  | 3730.0  | 3968.8  | 4262.0  | 4328.6  | 4666.7  |
| 17.5° | 3646.2  | 3652.4  | 3627.6  | 3554.7  | 3548.6  | 3609.0  | 3788.9  | 4030.8  | 4361.2  | 4434.0  | 4824.9  |
| 20°   | 4061.9  | 4051.0  | 3999.9  | 3855.5  | 3773.3  | 3760.9  | 3889.7  | 4123.9  | 4463.6  | 4541.1  | 4995.5  |
| 22.5° | 4626.3  | 4613.9  | 4511.6  | 4283.7  | 4100.6  | 3979.7  | 4035.5  | 4244.8  | 4578.3  | 4665.2  | 5161.5  |
| 25°   | 5330.5  | 5313.4  | 5163.0  | 4852.9  | 4569.0  | 4269.6  | 4234.0  | 4404.6  | 4719.4  | 4800.1  | 5335.1  |
| 27.5° | 6152.5  | 6138.5  | 5975.6  | 5566.3  | 5156.8  | 4666.7  | 4480.6  | 4592.3  | 4866.8  | 4958.2  | 5530.6  |
| 30°   | 7036.5  | 7076.8  | 6788.4  | 6347.9  | 5829.9  | 5184.8  | 4812.5  | 4823.3  | 5057.6  | 5139.8  | 5767.9  |
| 32.5° | 8075.7  | 8145.4  | 7798.0  | 7239.7  | 6532.4  | 5747.7  | 5231.3  | 5145.9  | 5335.1  | 5403.4  | 6067.2  |
| 35°   | 9105.5  | 9184.5  | 8896.1  | 8278.8  | 7464.6  | 6411.5  | 5668.6  | 5516.7  | 5704.2  | 5778.7  | 6464.3  |
| 37.5° | 9995.7  | 10101.2 | 9952.2  | 9415.6  | 8461.8  | 7211.8  | 6239.4  | 5952.4  | 6158.7  | 6251.8  | 6997.8  |
| 40°   | 10698.2 | 10859.6 | 10848.7 | 10513.6 | 9637.4  | 8182.7  | 6963.6  | 6490.6  | 6723.2  | 6824.0  | 7644.4  |
| 42.5° | 11269.0 | 11408.6 | 11529.5 | 11512.5 | 10864.2 | 9285.4  | 7815.1  | 7190.1  | 7366.9  | 7483.2  | 8371.9  |
| 45°   | 11662.9 | 11811.8 | 12072.3 | 12353.1 | 12044.5 | 10465.6 | 8790.6  | 8019.8  | 8181.1  | 8356.3  | 9238.8  |
| 47.5° | 12014.9 | 12184.0 | 12522.1 | 12967.2 | 13046.3 | 11650.5 | 9859.2  | 8986.0  | 9133.4  | 9314.8  | 10108.9 |
| 50°   | 12046.0 | 12191.8 | 12715.9 | 13347.2 | 13758.2 | 12788.8 | 11006.9 | 10070.1 | 10208.2 | 10402.0 | 11041.0 |
| 52.5° | 11296.8 | 11526.4 | 12441.4 | 13336.4 | 14085.4 | 13741.2 | 12146.8 | 11197.6 | 11352.7 | 11585.4 | 12005.6 |
| 55°   | 8768.9  | 9105.5  | 11636.5 | 12920.7 | 13969.1 | 14356.9 | 13230.9 | 12396.5 | 12595.0 | 12838.5 | 12976.5 |
| 57.5° | 7552.9  | 7700.3  | 9237.3  | 12163.9 | 13438.7 | 14516.6 | 14145.9 | 13607.8 | 13927.2 | 14194.0 | 14003.2 |
| 60°   | 6788.4  | 6910.9  | 7819.7  | 10986.7 | 12740.7 | 14263.8 | 14853.2 | 14736.8 | 15288.9 | 15606.9 | 15053.3 |
| 62.5° | 5969.5  | 6085.8  | 6912.4  | 9173.6  | 11847.5 | 13843.4 | 15299.8 | 15779.1 | 16684.7 | 17032.2 | 16042.7 |
| 65°   | 5156.8  | 5256.1  | 6048.6  | 7708.1  | 10712.2 | 13423.2 | 15530.9 | 16680.1 | 17976.7 | 18336.5 | 16864.6 |
| 67.5° | 4251.1  | 4333.3  | 5082.4  | 6503.0  | 9331.9  | 12847.8 | 15645.7 | 17388.9 | 19101.1 | 19409.7 | 17271.0 |
| 70°   | 3067.7  | 3131.3  | 3905.2  | 5142.8  | 7599.5  | 11858.3 | 15599.2 | 17891.4 | 19684.2 | 19930.8 | 16964.0 |
| 72.5° | 1450.1  | 1507.5  | 2416.3  | 3339.1  | 5367.7  | 9932.0  | 14657.7 | 17492.8 | 19091.8 | 18969.3 | 15084.2 |
| 75°   | 773.9   | 823.6   | 1388.1  | 1831.7  | 2835.0  | 6808.6  | 11994.8 | 15068.7 | 16031.8 | 15436.3 | 11148.0 |
| 77.5° | 524.2   | 563.0   | 859.3   | 1099.6  | 1295.0  | 3232.1  | 7709.6  | 10433.1 | 10037.5 | 9054.2  | 5583.3  |
| 80°   | 415.6   | 455.9   | 704.1   | 744.5   | 626.6   | 1167.9  | 3185.6  | 4829.6  | 3469.4  | 2774.6  | 1588.1  |
| 82.5° | 319.5   | 364.5   | 592.4   | 539.8   | 341.2   | 479.2   | 927.4   | 1527.7  | 888.7   | 676.2   | 384.6   |
| 85°   | 195.4   | 243.5   | 465.2   | 344.3   | 192.3   | 218.6   | 314.9   | 425.0   | 271.4   | 226.4   | 138.1   |
| 87.5° | 99.2    | 139.6   | 235.7   | 125.7   | 86.8    | 51.1    | 83.7    | 83.7    | 71.3    | 62.0    | 35.7    |
| 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°    | 4224.7  | 4224.7 | 4224.7 | 4224.7 | 4224.7 | 4224.7 | 4224.7 | 4224.7 | 4224.7 | 4224.7 | 4224.7 |
| 2.5°  | 4240.2  | 4271.3 | 4324.0 | 4373.6 | 4412.3 | 4449.6 | 4486.8 | 4506.9 | 4513.2 | 4538.0 | 4551.9 |
| 5°    | 4289.8  | 4347.2 | 4449.6 | 4545.8 | 4606.2 | 4643.5 | 4669.8 | 4685.3 | 4688.5 | 4696.1 | 4708.5 |
| 7.5°  | 4381.4  | 4472.9 | 4615.6 | 4711.7 | 4756.6 | 4753.5 | 4742.7 | 4703.9 | 4688.5 | 4674.5 | 4677.6 |
| 10°   | 4510.1  | 4631.1 | 4806.3 | 4873.0 | 4845.1 | 4770.7 | 4674.5 | 4561.2 | 4508.6 | 4457.3 | 4441.8 |
| 12.5° | 4669.8  | 4823.3 | 4995.5 | 4992.4 | 4854.4 | 4663.6 | 4440.3 | 4266.6 | 4156.5 | 4077.3 | 4058.8 |
| 15°   | 4863.7  | 5040.4 | 5172.4 | 5066.9 | 4764.4 | 4421.6 | 4094.5 | 3867.9 | 3768.7 | 3681.9 | 3672.6 |
| 17.5° | 5063.7  | 5252.9 | 5313.4 | 5043.6 | 4538.0 | 4063.4 | 3692.8 | 3514.4 | 3416.6 | 3370.1 | 3384.1 |
| 20°   | 5259.2  | 5446.8 | 5397.2 | 4910.2 | 4193.7 | 3657.1 | 3326.7 | 3229.1 | 3208.9 | 3219.7 | 3215.0 |
| 22.5° | 5465.4  | 5632.9 | 5414.3 | 4652.8 | 3754.8 | 3241.5 | 3059.9 | 3063.1 | 3108.0 | 3140.6 | 3148.4 |
| 25°   | 5676.3  | 5789.6 | 5369.3 | 4280.5 | 3283.3 | 2935.9 | 2890.9 | 2940.5 | 3029.0 | 3092.5 | 3109.5 |
| 27.5° | 5879.5  | 5929.1 | 5271.6 | 3819.9 | 2878.5 | 2717.2 | 2725.0 | 2827.4 | 2960.7 | 3049.1 | 3070.8 |
| 30°   | 6109.1  | 6053.2 | 5083.9 | 3301.9 | 2597.8 | 2529.6 | 2594.7 | 2714.1 | 2847.4 | 2926.6 | 2945.2 |
| 32.5° | 6368.0  | 6160.2 | 4786.1 | 2822.6 | 2399.3 | 2379.1 | 2486.1 | 2563.6 | 2622.6 | 2645.8 | 2658.2 |
| 35°   | 6690.7  | 6310.7 | 4404.6 | 2486.1 | 2220.9 | 2269.0 | 2371.3 | 2332.6 | 2309.3 | 2296.9 | 2309.3 |
| 37.5° | 7109.4  | 6513.9 | 3957.9 | 2267.4 | 2076.6 | 2189.9 | 2231.7 | 2110.8 | 2019.2 | 1974.4 | 1985.2 |
| 40°   | 7613.5  | 6811.6 | 3528.4 | 2098.4 | 1985.2 | 2121.6 | 2048.8 | 1903.0 | 1786.7 | 1723.0 | 1727.7 |
| 42.5° | 8173.4  | 7123.3 | 3166.9 | 1971.2 | 1934.0 | 2065.8 | 1913.9 | 1740.1 | 1552.5 | 1532.3 | 1552.5 |
| 45°   | 8761.1  | 7444.4 | 2920.3 | 1873.5 | 1909.2 | 2017.7 | 1836.3 | 1555.5 | 1422.2 | 1504.4 | 1547.9 |
| 47.5° | 9348.9  | 7739.1 | 2771.5 | 1800.6 | 1896.8 | 1963.5 | 1768.0 | 1453.2 | 1358.6 | 1478.0 | 1533.8 |
| 50°   | 10003.4 | 8002.7 | 2704.8 | 1747.9 | 1882.8 | 1941.8 | 1665.7 | 1426.8 | 1291.9 | 1371.0 | 1430.0 |
| 52.5° | 10653.2 | 8207.5 | 2655.2 | 1695.1 | 1862.6 | 1924.6 | 1616.0 | 1395.8 | 1211.2 | 1216.0 | 1248.4 |
| 55°   | 11301.5 | 8340.8 | 2600.9 | 1625.3 | 1817.6 | 1887.4 | 1611.4 | 1361.7 | 1150.8 | 1129.0 | 1144.6 |
| 57.5° | 11993.2 | 8416.8 | 2534.2 | 1547.9 | 1740.1 | 1792.8 | 1606.8 | 1335.4 | 1132.2 | 1096.5 | 1101.2 |
| 60°   | 12697.4 | 8528.5 | 2447.4 | 1453.2 | 1636.2 | 1679.7 | 1595.9 | 1326.0 | 1121.4 | 1060.9 | 1065.5 |
| 62.5° | 13328.6 | 8567.3 | 2343.5 | 1363.2 | 1502.9 | 1567.9 | 1572.7 | 1318.3 | 1091.8 | 987.9  | 987.9  |
| 65°   | 13742.7 | 8399.8 | 2161.9 | 1260.9 | 1358.6 | 1453.2 | 1527.7 | 1291.9 | 1039.1 | 935.2  | 935.2  |
| 67.5° | 13725.6 | 7922.1 | 1878.2 | 1129.0 | 1219.0 | 1326.0 | 1462.5 | 1246.9 | 975.5  | 870.0  | 874.7  |
| 70°   | 13086.7 | 6979.1 | 1518.3 | 975.5  | 1065.5 | 1189.5 | 1378.7 | 1180.3 | 899.5  | 798.7  | 808.0  |
| 72.5° | 11224.0 | 5462.3 | 1102.7 | 795.6  | 887.1  | 1048.4 | 1270.2 | 1099.6 | 821.9  | 735.1  | 730.5  |
| 75°   | 8018.3  | 3457.0 | 747.5  | 611.1  | 690.1  | 888.7  | 1135.3 | 1005.0 | 750.6  | 738.2  | 696.4  |
| 77.5° | 4096.0  | 1651.7 | 494.8  | 446.7  | 480.8  | 701.0  | 953.9  | 898.0  | 761.5  | 609.5  | 542.8  |
| 80°   | 1332.2  | 609.5  | 311.7  | 304.0  | 319.5  | 466.8  | 738.2  | 736.7  | 577.0  | 414.1  | 366.0  |
| 82.5° | 425.0   | 262.1  | 203.2  | 195.4  | 187.7  | 293.2  | 514.9  | 583.1  | 389.3  | 262.1  | 260.6  |
| 85°   | 169.0   | 156.6  | 119.4  | 110.1  | 79.1   | 138.1  | 269.9  | 387.8  | 290.0  | 189.2  | 193.8  |
| 87.5° | 62.0    | 62.0   | 32.6   | 23.3   | 17.0   | 46.5   | 72.9   | 116.3  | 165.9  | 97.7   | 96.1   |
| 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)