

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: STREETWORKS

Report Number: P970523

Luminaire Tested: **NVN-SB6B-830-U-T2U**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P970523  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6B-830-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 31871.3 lumens  
Efficiency: N/A  
Efficacy: 144.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
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

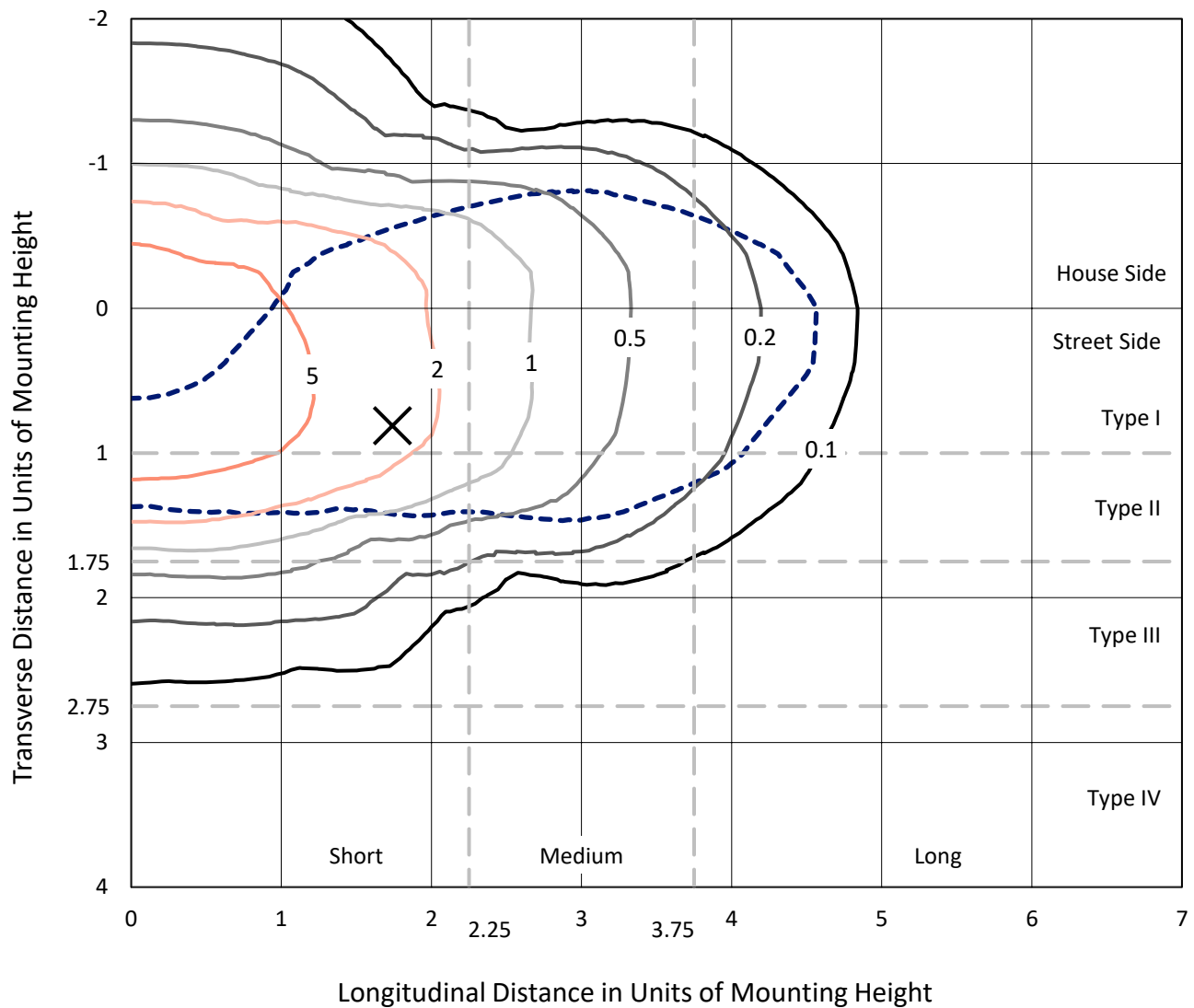


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

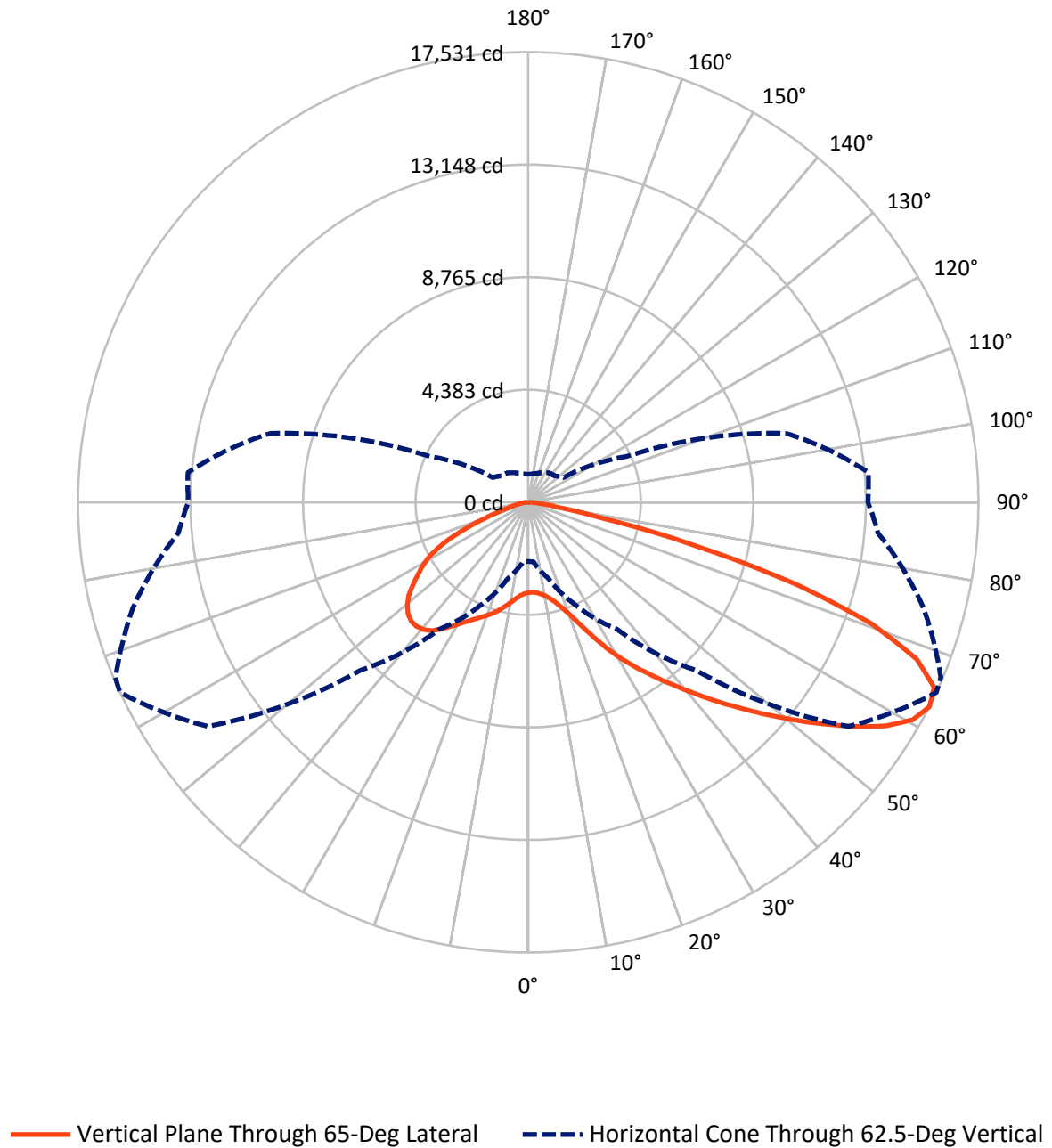


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10057.2  | 0.0    | 10057.2 |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 21814.1  | 0.0    | 21814.1 |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 31871.3  | 0.0    | 31871.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 350.2   | 1.1       |
| 10°-20°   | 1187.4  | 3.7       |
| 20°-30°   | 2407.6  | 7.6       |
| 30°-40°   | 4166.2  | 13.1      |
| 40°-50°   | 6304.8  | 19.8      |
| 50°-60°   | 7392.0  | 23.2      |
| 60°-70°   | 6197.3  | 19.4      |
| 70°-80°   | 3421.4  | 10.7      |
| 80°-90°   | 444.4   | 1.4       |
| 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°    | 31871.3 | 100.0     |
| 0°-180°   | 31871.3 | 100.0     |

**Coefficient of Utilization**



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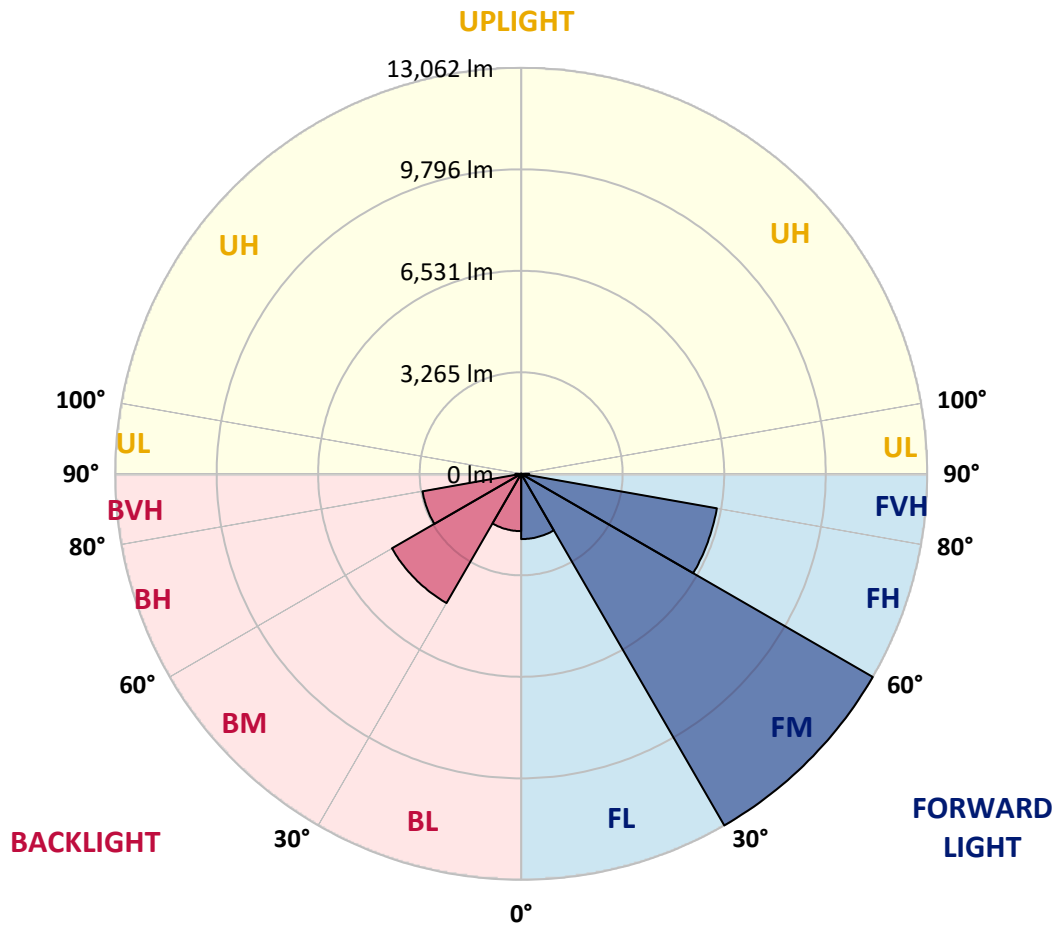
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2100.7  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 13061.9 | 41.0      |                         |      |         |
| FH   | (60°-80°)   | 6392.5  | 20.1      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 259.0   | 0.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1844.4  | 5.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4801.2  | 15.1      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3226.3  | 10.1      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 185.4   | 0.6       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3512.1  | 3512.1  | 3512.1  | 3512.1  | 3512.1  | 3512.1  | 3512.1  | 3512.1  | 3512.1  | 3512.1  | 3512.1  |
| 2.5°  | 3488.9  | 3479.1  | 3487.3  | 3487.3  | 3490.6  | 3488.9  | 3500.5  | 3503.9  | 3508.8  | 3518.7  | 3518.7  |
| 5°    | 3454.2  | 3452.5  | 3467.5  | 3480.7  | 3493.9  | 3505.5  | 3520.4  | 3541.9  | 3545.2  | 3556.7  | 3571.6  |
| 7.5°  | 3442.7  | 3432.7  | 3455.9  | 3472.4  | 3503.9  | 3531.9  | 3571.6  | 3608.0  | 3622.9  | 3627.8  | 3656.0  |
| 10°   | 3531.9  | 3515.4  | 3536.9  | 3546.8  | 3573.3  | 3601.3  | 3647.7  | 3705.6  | 3722.1  | 3742.0  | 3773.3  |
| 12.5° | 3684.1  | 3665.9  | 3697.3  | 3712.1  | 3736.9  | 3761.7  | 3793.2  | 3849.4  | 3857.7  | 3894.1  | 3923.8  |
| 15°   | 3892.4  | 3870.9  | 3890.7  | 3908.9  | 3950.2  | 3973.4  | 4004.9  | 4059.4  | 4059.4  | 4087.5  | 4109.0  |
| 17.5° | 4175.1  | 4147.0  | 4161.9  | 4168.6  | 4195.0  | 4229.8  | 4282.7  | 4330.6  | 4355.4  | 4345.5  | 4315.7  |
| 20°   | 4596.8  | 4562.1  | 4562.1  | 4529.0  | 4519.1  | 4547.2  | 4616.6  | 4682.8  | 4709.3  | 4658.0  | 4585.2  |
| 22.5° | 5230.1  | 5180.5  | 5152.4  | 5039.9  | 4995.3  | 4998.6  | 5068.0  | 5149.1  | 5170.6  | 5079.6  | 4915.9  |
| 25°   | 6035.4  | 5957.6  | 5919.6  | 5754.2  | 5653.4  | 5565.7  | 5620.3  | 5724.5  | 5754.2  | 5641.8  | 5377.3  |
| 27.5° | 6840.6  | 6845.6  | 6809.2  | 6610.7  | 6443.8  | 6283.4  | 6255.3  | 6364.4  | 6395.8  | 6268.5  | 5941.1  |
| 30°   | 7970.0  | 7852.6  | 7783.1  | 7545.0  | 7306.9  | 7082.0  | 6966.3  | 7010.9  | 7019.2  | 6867.1  | 6486.8  |
| 32.5° | 8943.9  | 8914.1  | 8765.3  | 8557.0  | 8251.0  | 7898.9  | 7705.4  | 7634.3  | 7621.1  | 7404.5  | 6953.1  |
| 35°   | 10053.4 | 10036.9 | 9879.8  | 9631.8  | 9301.1  | 8811.6  | 8462.7  | 8259.3  | 8242.8  | 7938.5  | 7414.4  |
| 37.5° | 11181.1 | 11181.1 | 11027.4 | 10756.1 | 10413.9 | 9802.1  | 9271.3  | 8948.9  | 8896.0  | 8499.1  | 7884.0  |
| 40°   | 12080.6 | 12026.1 | 12054.2 | 11940.1 | 11548.2 | 10898.4 | 10169.1 | 9701.2  | 9630.1  | 9153.9  | 8383.4  |
| 42.5° | 12591.6 | 12573.4 | 12742.1 | 12869.4 | 12709.0 | 12189.8 | 11157.9 | 10516.4 | 10417.2 | 9874.8  | 8958.8  |
| 45°   | 12705.7 | 12685.8 | 12986.7 | 13453.0 | 13677.9 | 13464.6 | 12232.8 | 11374.6 | 11253.9 | 10628.8 | 9575.6  |
| 47.5° | 12442.8 | 12403.1 | 12844.6 | 13580.4 | 14301.3 | 14676.7 | 13396.9 | 12305.5 | 12130.3 | 11363.0 | 10208.9 |
| 50°   | 11652.4 | 11614.4 | 12282.4 | 13259.6 | 14511.3 | 15500.2 | 14660.2 | 13292.7 | 13024.8 | 12150.0 | 10848.8 |
| 52.5° | 9934.4  | 9952.5  | 10999.3 | 12341.9 | 14235.2 | 16012.8 | 15748.2 | 14332.8 | 14010.3 | 12955.4 | 11449.0 |
| 55°   | 7738.4  | 7778.2  | 9064.6  | 10542.8 | 13130.7 | 15935.1 | 16490.6 | 15404.2 | 15083.5 | 13712.7 | 12069.1 |
| 57.5° | 5540.9  | 5716.2  | 6921.6  | 8385.0  | 11009.1 | 14703.1 | 16652.7 | 16422.8 | 16112.0 | 14539.4 | 12675.9 |
| 60°   | 3591.5  | 3622.9  | 4863.0  | 6338.0  | 8383.4  | 12513.9 | 16323.6 | 17195.0 | 16952.0 | 15382.7 | 13183.6 |
| 62.5° | 2301.7  | 2323.2  | 3078.9  | 4433.1  | 6033.7  | 9258.1  | 15215.7 | 17530.7 | 17456.3 | 15940.0 | 13671.3 |
| 65°   | 1691.6  | 1675.1  | 2068.6  | 2930.1  | 4064.3  | 5709.7  | 13064.4 | 17368.6 | 17515.8 | 16288.9 | 14074.8 |
| 67.5° | 1412.1  | 1389.0  | 1582.4  | 2028.9  | 2994.5  | 3242.6  | 9666.5  | 16315.3 | 16854.4 | 16249.2 | 14370.8 |
| 70°   | 1286.5  | 1266.6  | 1384.0  | 1506.3  | 2336.4  | 2171.1  | 4873.0  | 14184.0 | 15014.0 | 15797.8 | 14322.8 |
| 72.5° | 1089.7  | 1054.9  | 1215.3  | 1337.7  | 1817.2  | 1665.1  | 2014.0  | 10895.0 | 11907.0 | 14350.9 | 13648.2 |
| 75°   | 844.9   | 821.8   | 959.1   | 1177.3  | 1365.8  | 1299.7  | 1273.3  | 6615.8  | 7720.3  | 11098.5 | 11940.1 |
| 77.5° | 669.6   | 638.3   | 763.9   | 917.7   | 1228.6  | 980.5   | 927.6   | 2849.0  | 3943.7  | 7085.3  | 8934.0  |
| 80°   | 504.3   | 476.2   | 580.4   | 725.9   | 944.1   | 739.1   | 600.2   | 1162.5  | 1486.6  | 3589.8  | 4492.6  |
| 82.5° | 358.9   | 334.0   | 405.1   | 532.4   | 635.0   | 663.1   | 368.7   | 651.5   | 732.5   | 1384.0  | 1003.7  |
| 85°   | 229.8   | 214.9   | 271.2   | 334.0   | 403.4   | 426.6   | 224.9   | 340.6   | 373.7   | 570.5   | 418.3   |
| 87.5° | 125.7   | 102.5   | 145.5   | 155.4   | 186.9   | 170.4   | 107.5   | 124.0   | 134.0   | 206.6   | 176.9   |
| 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°    | 3512.1  | 3512.1  | 3512.1  | 3512.1 | 3512.1 | 3512.1 | 3512.1 | 3512.1 | 3512.1 | 3512.1 | 3512.1 |
| 2.5°  | 3525.3  | 3530.3  | 3546.8  | 3551.7 | 3563.3 | 3578.3 | 3588.1 | 3598.1 | 3598.1 | 3608.0 | 3608.0 |
| 5°    | 3573.3  | 3584.8  | 3619.6  | 3637.7 | 3667.6 | 3697.3 | 3715.4 | 3736.9 | 3750.2 | 3756.8 | 3760.1 |
| 7.5°  | 3665.9  | 3684.1  | 3733.7  | 3765.0 | 3816.4 | 3857.7 | 3885.8 | 3915.5 | 3922.2 | 3940.3 | 3933.7 |
| 10°   | 3791.6  | 3813.0  | 3869.3  | 3928.7 | 3989.9 | 4041.2 | 4067.7 | 4089.1 | 4097.4 | 4100.7 | 4092.5 |
| 12.5° | 3935.4  | 3966.9  | 4039.5  | 4112.3 | 4176.8 | 4221.5 | 4228.0 | 4223.1 | 4199.9 | 4180.2 | 4180.2 |
| 15°   | 4112.3  | 4140.4  | 4221.5  | 4300.8 | 4363.6 | 4371.9 | 4330.6 | 4304.1 | 4276.0 | 4271.1 | 4271.1 |
| 17.5° | 4324.0  | 4338.8  | 4413.2  | 4490.9 | 4496.0 | 4467.9 | 4406.7 | 4381.9 | 4355.4 | 4337.2 | 4338.8 |
| 20°   | 4570.4  | 4565.3  | 4618.3  | 4651.3 | 4616.6 | 4530.7 | 4438.0 | 4396.7 | 4370.3 | 4348.8 | 4350.4 |
| 22.5° | 4864.6  | 4826.6  | 4820.1  | 4811.8 | 4719.2 | 4538.9 | 4413.2 | 4360.3 | 4319.0 | 4289.2 | 4299.2 |
| 25°   | 5292.9  | 5147.4  | 5046.6  | 4990.3 | 4782.0 | 4494.3 | 4333.9 | 4216.4 | 4138.7 | 4087.5 | 4107.4 |
| 27.5° | 5828.7  | 5584.0  | 5329.3  | 5192.0 | 4782.0 | 4403.3 | 4142.1 | 3951.9 | 3824.6 | 3771.7 | 3798.1 |
| 30°   | 6339.6  | 6083.3  | 5707.9  | 5435.2 | 4770.5 | 4254.5 | 3832.9 | 3568.3 | 3419.5 | 3366.6 | 3398.0 |
| 32.5° | 6776.2  | 6496.7  | 6109.8  | 5701.4 | 4742.3 | 4013.1 | 3449.2 | 3156.6 | 3012.7 | 2949.8 | 2981.3 |
| 35°   | 7181.3  | 6883.6  | 6513.3  | 5994.0 | 4667.8 | 3659.2 | 3027.6 | 2804.4 | 2644.0 | 2543.1 | 2576.2 |
| 37.5° | 7596.3  | 7242.4  | 6895.2  | 6258.5 | 4534.0 | 3245.9 | 2703.5 | 2513.4 | 2324.9 | 2189.3 | 2225.7 |
| 40°   | 8047.7  | 7624.4  | 7303.6  | 6415.7 | 4314.0 | 2852.4 | 2452.2 | 2278.6 | 2078.5 | 1934.6 | 1962.8 |
| 42.5° | 8575.2  | 8082.4  | 7758.3  | 6496.7 | 4013.1 | 2572.9 | 2288.5 | 2118.2 | 1929.7 | 1812.3 | 1835.4 |
| 45°   | 9125.8  | 8586.7  | 8173.4  | 6495.0 | 3677.4 | 2442.3 | 2235.5 | 2066.9 | 1858.5 | 1736.2 | 1756.0 |
| 47.5° | 9702.9  | 9114.2  | 8532.2  | 6389.2 | 3386.4 | 2460.4 | 2205.8 | 1956.1 | 1726.3 | 1607.2 | 1623.8 |
| 50°   | 10281.6 | 9691.3  | 8879.5  | 6190.8 | 3262.4 | 2420.7 | 2095.0 | 1800.7 | 1529.5 | 1422.0 | 1428.6 |
| 52.5° | 10855.4 | 10304.7 | 9178.7  | 5908.0 | 3136.7 | 2273.6 | 1952.8 | 1599.0 | 1448.5 | 1374.1 | 1374.1 |
| 55°   | 11432.4 | 10911.6 | 9504.4  | 5496.4 | 2822.5 | 2101.7 | 1714.7 | 1522.9 | 1384.0 | 1316.2 | 1309.5 |
| 57.5° | 12011.2 | 11612.7 | 9813.7  | 5084.6 | 2427.4 | 1890.0 | 1584.0 | 1430.3 | 1319.5 | 1261.7 | 1251.7 |
| 60°   | 12613.0 | 12414.7 | 10132.8 | 4706.0 | 2037.2 | 1618.8 | 1488.2 | 1355.9 | 1243.4 | 1179.0 | 1174.0 |
| 62.5° | 13233.2 | 13297.6 | 10382.4 | 4218.2 | 1678.3 | 1453.4 | 1402.2 | 1266.6 | 1157.4 | 1096.2 | 1094.6 |
| 65°   | 13858.2 | 14149.2 | 10546.2 | 3541.9 | 1360.9 | 1296.3 | 1309.5 | 1169.0 | 1058.2 | 1005.3 | 1003.7 |
| 67.5° | 14329.4 | 14762.7 | 10499.9 | 2680.4 | 1116.1 | 1147.6 | 1193.8 | 1066.5 | 962.4  | 921.0  | 922.7  |
| 70°   | 14382.4 | 14689.9 | 10043.5 | 1835.4 | 934.3  | 1002.0 | 1064.9 | 965.7  | 858.1  | 828.4  | 830.0  |
| 72.5° | 13677.9 | 13697.8 | 8771.9  | 1198.8 | 790.4  | 879.7  | 929.3  | 863.2  | 759.0  | 729.2  | 727.5  |
| 75°   | 11831.0 | 11328.3 | 6440.5  | 790.4  | 661.4  | 755.6  | 802.0  | 755.6  | 654.8  | 661.4  | 638.3  |
| 77.5° | 8963.7  | 8022.9  | 3910.6  | 562.2  | 552.3  | 635.0  | 697.8  | 664.7  | 578.7  | 649.8  | 572.2  |
| 80°   | 4618.3  | 4340.5  | 1744.4  | 420.0  | 436.5  | 507.7  | 573.8  | 530.7  | 458.1  | 436.5  | 398.5  |
| 82.5° | 1058.2  | 1230.2  | 687.9   | 300.9  | 315.8  | 365.4  | 438.2  | 398.5  | 329.0  | 277.8  | 274.5  |
| 85°   | 370.4   | 405.1   | 304.2   | 188.5  | 185.2  | 228.2  | 297.7  | 266.2  | 223.2  | 178.6  | 188.5  |
| 87.5° | 117.4   | 153.8   | 114.1   | 76.1   | 79.3   | 102.5  | 137.2  | 125.7  | 104.1  | 67.8   | 71.1   |
| 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)