

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: P964745

Luminaire Tested: **NVN-SB3C-835-U-SL3**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P964745  
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: STREETWORKS  
Catalog Number: NVN-SB3C-835-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20878.2 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 149.1  
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



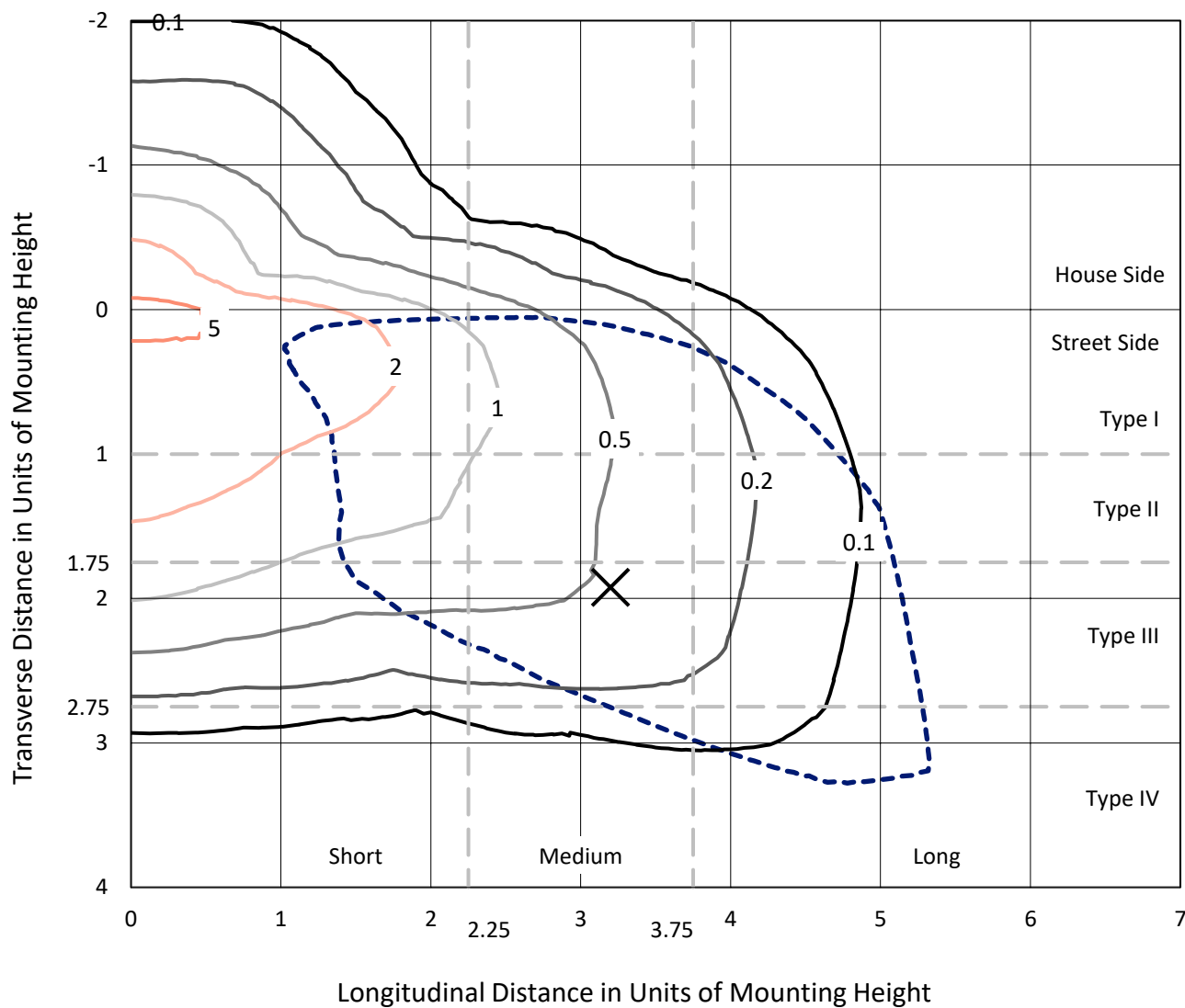
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

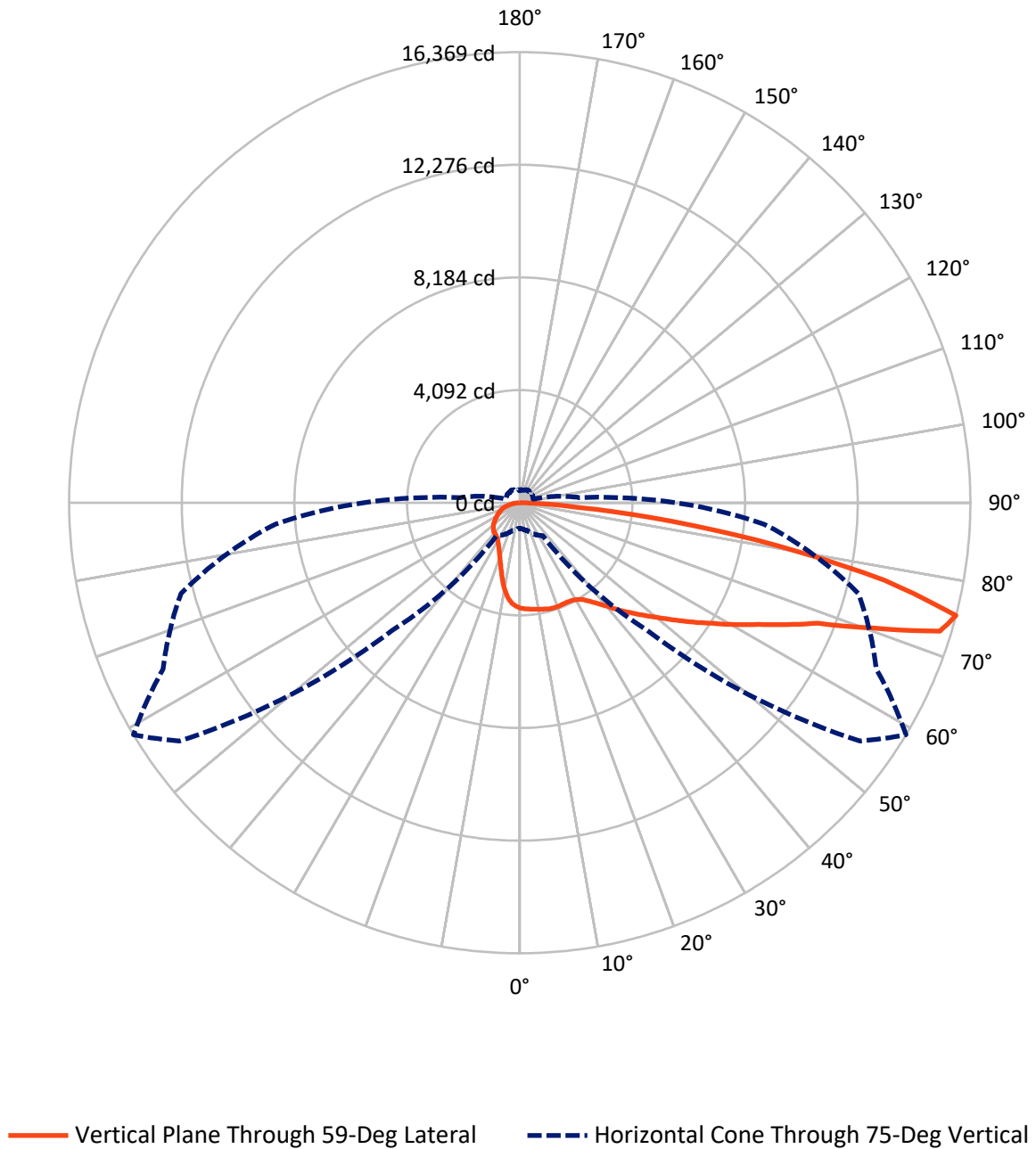


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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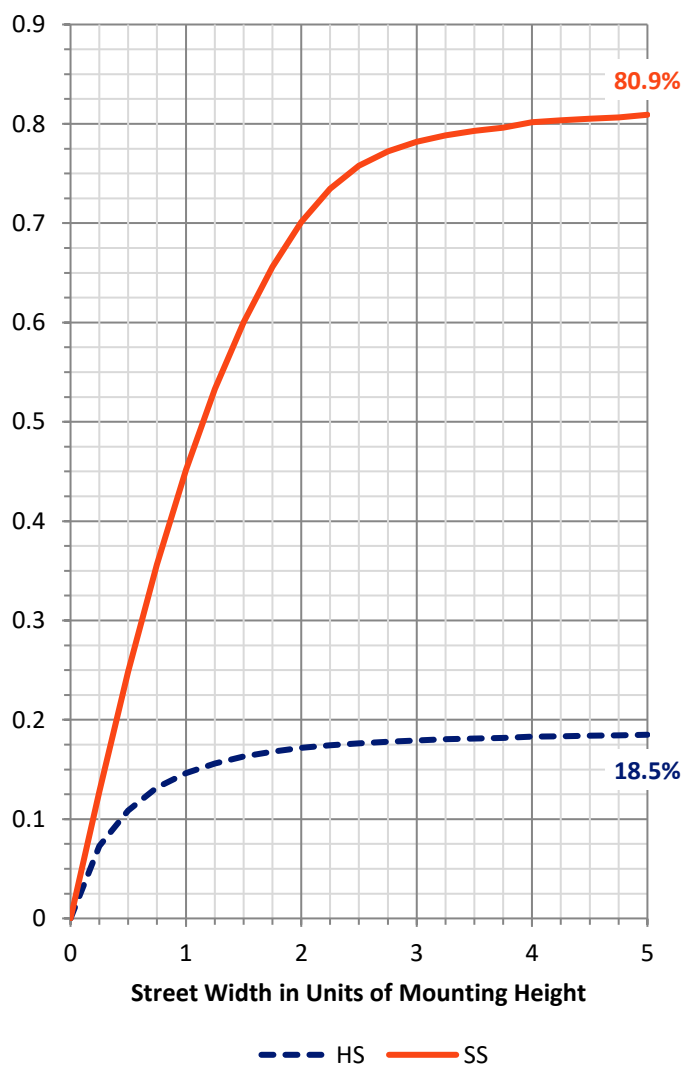
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3915.8   | 0.0    | 3915.8  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 16962.4  | 0.0    | 16962.4 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 20878.2  | 0.0    | 20878.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 343.6   | 1.6       |
| 10°-20°   | 878.3   | 4.2       |
| 20°-30°   | 1334.1  | 6.4       |
| 30°-40°   | 1983.1  | 9.5       |
| 40°-50°   | 2949.1  | 14.1      |
| 50°-60°   | 4003.1  | 19.2      |
| 60°-70°   | 4887.2  | 23.4      |
| 70°-80°   | 3835.4  | 18.4      |
| 80°-90°   | 664.4   | 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°    | 20878.2 | 100.0     |
| 0°-180°   | 20878.2 | 100.0     |

**Coefficient of Utilization**



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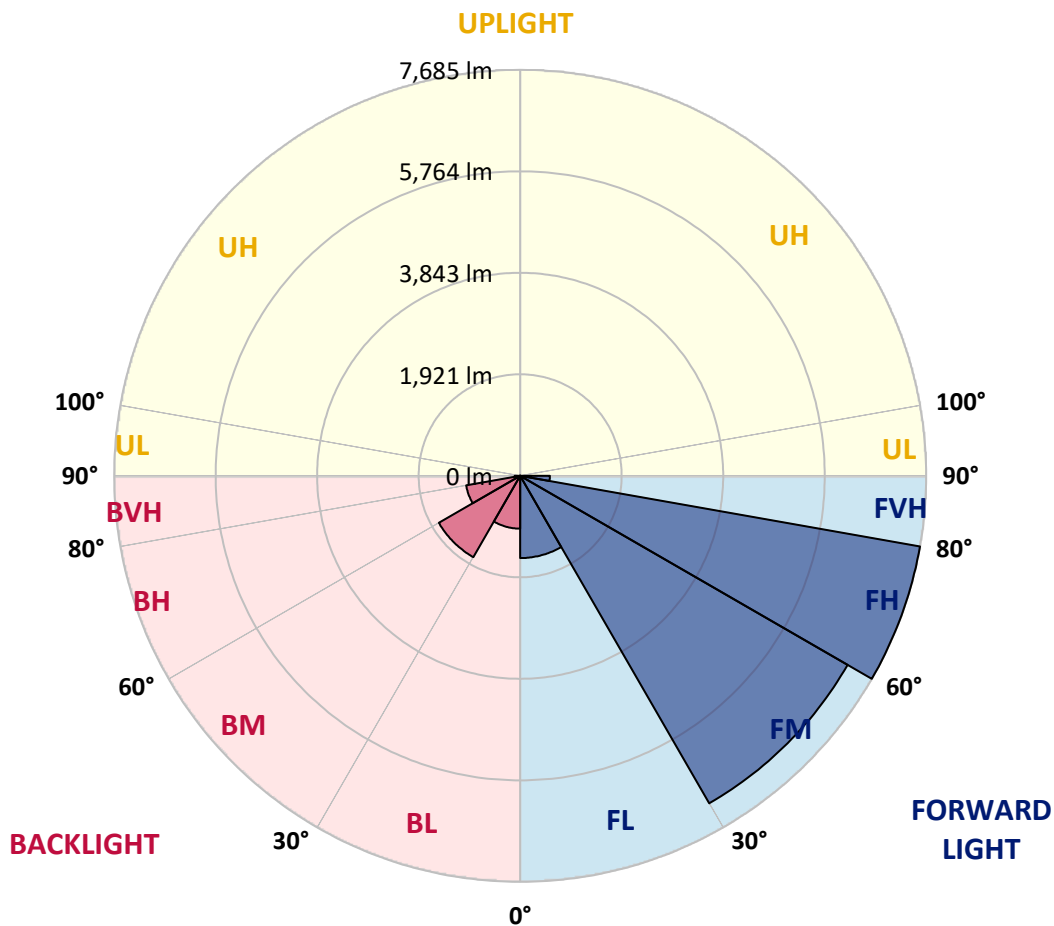
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1556.7 | 7.5       |                         |      |          |
| FM   | (30°-60°)   | 7157.9 | 34.3      |                         |      |          |
| FH   | (60°-80°)   | 7685.1 | 36.8      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 562.7  | 2.7       |                         |      | G4/750   |
| BL   | (0°-30°)    | 999.3  | 4.8       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1777.4 | 8.5       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1037.5 | 5.0       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 101.7  | 0.5       |                         |      | 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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 3832.2 | 3832.2 | 3832.2 | 3832.2 | 3832.2 | 3832.2 | 3832.2  | 3832.2  | 3832.2  | 3832.2  | 3832.2  |
| 2.5°  | 3864.8 | 3851.2 | 3864.8 | 3859.1 | 3856.9 | 3852.4 | 3853.5  | 3861.4  | 3856.9  | 3862.5  | 3843.3  |
| 5°    | 3838.9 | 3831.0 | 3844.5 | 3841.2 | 3855.7 | 3858.0 | 3872.6  | 3881.6  | 3887.2  | 3888.3  | 3873.7  |
| 7.5°  | 3796.2 | 3788.4 | 3807.5 | 3823.1 | 3854.6 | 3863.6 | 3894.0  | 3908.5  | 3916.4  | 3929.8  | 3908.5  |
| 10°   | 3640.1 | 3636.7 | 3683.8 | 3743.4 | 3817.5 | 3863.6 | 3909.7  | 3934.4  | 3946.8  | 3982.6  | 3957.9  |
| 12.5° | 3363.8 | 3368.3 | 3430.1 | 3544.7 | 3692.9 | 3841.2 | 3927.6  | 3963.6  | 3982.6  | 4027.5  | 4016.4  |
| 15°   | 3099.9 | 3098.8 | 3166.1 | 3288.5 | 3496.4 | 3742.3 | 3936.6  | 3998.4  | 4030.9  | 4097.2  | 4088.2  |
| 17.5° | 2947.1 | 2942.7 | 2989.8 | 3083.0 | 3276.2 | 3590.7 | 3914.2  | 4017.5  | 4087.1  | 4170.2  | 4162.3  |
| 20°   | 2919.0 | 2910.1 | 2934.8 | 2980.8 | 3117.8 | 3424.4 | 3855.7  | 4017.5  | 4132.0  | 4239.8  | 4235.4  |
| 22.5° | 3021.3 | 3006.6 | 2996.5 | 2991.0 | 3051.5 | 3287.4 | 3789.4  | 4004.0  | 4198.3  | 4339.8  | 4332.0  |
| 25°   | 3226.8 | 3204.4 | 3152.7 | 3102.1 | 3084.1 | 3225.7 | 3731.1  | 4000.6  | 4297.1  | 4474.6  | 4445.4  |
| 27.5° | 3559.2 | 3531.1 | 3426.7 | 3305.4 | 3196.5 | 3257.1 | 3705.3  | 4020.9  | 4406.1  | 4617.2  | 4558.8  |
| 30°   | 3971.5 | 3941.1 | 3809.7 | 3623.3 | 3427.8 | 3373.9 | 3737.8  | 4080.3  | 4545.4  | 4807.0  | 4692.4  |
| 32.5° | 4341.0 | 4307.3 | 4194.9 | 4005.1 | 3741.1 | 3576.1 | 3841.2  | 4193.8  | 4764.4  | 5071.0  | 4893.6  |
| 35°   | 4668.9 | 4629.6 | 4528.4 | 4353.3 | 4125.3 | 3860.3 | 4027.5  | 4394.9  | 5075.5  | 5500.0  | 5166.4  |
| 37.5° | 4990.1 | 4944.1 | 4834.0 | 4648.7 | 4489.2 | 4238.7 | 4284.8  | 4653.2  | 5488.8  | 6021.2  | 5528.1  |
| 40°   | 5349.5 | 5283.3 | 5149.6 | 4966.5 | 4811.6 | 4682.4 | 4622.9  | 4969.9  | 5908.8  | 6602.9  | 5979.6  |
| 42.5° | 5697.7 | 5634.8 | 5475.3 | 5319.2 | 5124.9 | 5087.8 | 5014.8  | 5340.6  | 6368.2  | 7242.0  | 6437.8  |
| 45°   | 6072.8 | 5997.6 | 5804.4 | 5606.7 | 5484.3 | 5357.4 | 5394.5  | 5711.2  | 6818.6  | 7893.4  | 6918.5  |
| 47.5° | 6424.4 | 6340.1 | 6112.1 | 5892.0 | 5824.6 | 5584.2 | 5742.6  | 6118.8  | 7286.9  | 8553.8  | 7394.8  |
| 50°   | 6614.1 | 6531.1 | 6341.3 | 6142.4 | 6089.6 | 5863.9 | 6120.0  | 6567.0  | 7777.7  | 9212.0  | 7851.9  |
| 52.5° | 6772.5 | 6682.7 | 6434.4 | 6324.4 | 6308.7 | 6168.2 | 6585.0  | 7079.2  | 8268.6  | 9793.8  | 8293.3  |
| 55°   | 6941.0 | 6841.1 | 6524.3 | 6425.5 | 6497.4 | 6509.7 | 7136.5  | 7659.8  | 8787.4  | 10361.0 | 8709.9  |
| 57.5° | 7135.3 | 7008.4 | 6610.8 | 6510.8 | 6681.6 | 6909.5 | 7769.9  | 8261.8  | 9297.4  | 10886.6 | 9080.6  |
| 60°   | 7318.4 | 7190.4 | 6777.0 | 6646.7 | 6880.3 | 7373.4 | 8496.5  | 8990.7  | 9874.6  | 11354.9 | 9431.0  |
| 62.5° | 7354.3 | 7248.7 | 6909.5 | 6908.4 | 7149.9 | 7914.7 | 9356.9  | 9726.4  | 10378.9 | 11817.6 | 9745.5  |
| 65°   | 6732.1 | 6665.9 | 6464.8 | 6898.4 | 7536.3 | 8694.3 | 10314.9 | 10667.6 | 11020.3 | 12222.0 | 10021.7 |
| 67.5° | 5123.8 | 5132.8 | 5118.1 | 5954.8 | 7224.0 | 9814.0 | 11702.0 | 11675.1 | 11812.1 | 12675.8 | 10339.6 |
| 70°   | 2342.8 | 2395.6 | 2739.3 | 4110.7 | 5787.6 | 9943.1 | 13995.5 | 13646.1 | 12806.0 | 13263.2 | 10614.8 |
| 72.5° | 1265.8 | 1306.3 | 1446.6 | 1991.4 | 3479.5 | 8840.2 | 15709.4 | 15957.6 | 14128.0 | 13658.5 | 10312.6 |
| 75°   | 928.9  | 951.3  | 1049.0 | 1265.8 | 1461.2 | 6570.4 | 15095.0 | 16368.6 | 14293.1 | 12736.4 | 8905.4  |
| 77.5° | 695.3  | 705.3  | 785.0  | 1003.0 | 748.0  | 3463.8 | 12061.4 | 13556.3 | 12235.5 | 10464.3 | 6578.2  |
| 80°   | 504.3  | 515.5  | 575.0  | 752.5  | 524.5  | 1266.9 | 8282.0  | 9515.3  | 8379.8  | 6670.3  | 3278.5  |
| 82.5° | 348.2  | 352.7  | 378.5  | 512.2  | 366.1  | 491.9  | 4699.2  | 5579.8  | 4677.9  | 2340.6  | 885.0   |
| 85°   | 210.0  | 215.7  | 226.8  | 298.8  | 207.8  | 233.6  | 2028.4  | 2098.1  | 1398.3  | 559.3   | 275.2   |
| 87.5° | 86.5   | 92.1   | 101.1  | 125.8  | 82.0   | 65.2   | 334.7   | 420.0   | 261.7   | 164.0   | 85.4    |
| 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°    | 3832.2 | 3832.2 | 3832.2 | 3832.2 | 3832.2 | 3832.2 | 3832.2 | 3832.2 | 3832.2 | 3832.2 | 3832.2 |
| 2.5°  | 3837.8 | 3829.9 | 3808.6 | 3779.4 | 3752.4 | 3718.7 | 3704.1 | 3691.7 | 3680.6 | 3659.1 | 3649.1 |
| 5°    | 3861.4 | 3840.1 | 3782.8 | 3708.7 | 3624.4 | 3532.3 | 3442.5 | 3380.7 | 3327.9 | 3288.5 | 3256.0 |
| 7.5°  | 3897.3 | 3856.9 | 3752.4 | 3600.8 | 3407.6 | 3209.9 | 3031.3 | 2904.4 | 2809.0 | 2774.2 | 2713.5 |
| 10°   | 3934.4 | 3886.1 | 3704.1 | 3436.8 | 3103.2 | 2798.9 | 2561.9 | 2431.6 | 2355.2 | 2330.5 | 2292.3 |
| 12.5° | 3978.1 | 3907.4 | 3628.9 | 3208.8 | 2762.9 | 2429.4 | 2222.7 | 2146.4 | 2107.0 | 2093.6 | 2096.9 |
| 15°   | 4042.2 | 3925.3 | 3515.4 | 2923.5 | 2438.4 | 2159.8 | 2026.1 | 1973.3 | 1953.1 | 1952.0 | 1956.5 |
| 17.5° | 4090.5 | 3928.7 | 3339.1 | 2618.1 | 2189.0 | 1996.9 | 1886.9 | 1866.6 | 1880.2 | 1900.4 | 1908.2 |
| 20°   | 4144.4 | 3898.4 | 3107.7 | 2339.5 | 2013.8 | 1854.3 | 1808.3 | 1821.7 | 1854.3 | 1883.5 | 1893.6 |
| 22.5° | 4182.6 | 3843.3 | 2828.1 | 2122.8 | 1862.1 | 1772.3 | 1770.1 | 1798.2 | 1816.1 | 1830.8 | 1838.5 |
| 25°   | 4216.2 | 3750.2 | 2531.5 | 1940.7 | 1737.5 | 1722.9 | 1747.6 | 1738.6 | 1726.3 | 1738.6 | 1746.5 |
| 27.5° | 4240.9 | 3603.1 | 2266.5 | 1781.3 | 1649.9 | 1689.2 | 1674.6 | 1654.4 | 1653.2 | 1660.0 | 1671.3 |
| 30°   | 4233.1 | 3406.5 | 2048.6 | 1629.6 | 1588.1 | 1626.3 | 1591.5 | 1588.1 | 1584.8 | 1588.1 | 1600.4 |
| 32.5° | 4233.1 | 3182.9 | 1881.3 | 1525.2 | 1548.8 | 1534.2 | 1530.8 | 1522.9 | 1509.5 | 1508.4 | 1522.9 |
| 35°   | 4256.7 | 2959.5 | 1737.5 | 1469.0 | 1516.3 | 1481.4 | 1483.7 | 1464.6 | 1436.5 | 1423.0 | 1436.5 |
| 37.5° | 4305.0 | 2779.8 | 1594.9 | 1442.1 | 1459.0 | 1457.9 | 1448.8 | 1416.2 | 1366.8 | 1324.2 | 1338.8 |
| 40°   | 4421.8 | 2727.0 | 1497.1 | 1429.8 | 1432.0 | 1445.5 | 1421.9 | 1359.0 | 1246.7 | 1177.0 | 1186.0 |
| 42.5° | 4604.9 | 2815.7 | 1475.8 | 1399.4 | 1414.0 | 1427.5 | 1381.5 | 1235.4 | 1155.7 | 1114.2 | 1114.2 |
| 45°   | 4837.4 | 2970.7 | 1521.8 | 1355.7 | 1371.3 | 1394.9 | 1257.9 | 1188.3 | 1152.3 | 1153.4 | 1159.1 |
| 47.5° | 5131.7 | 3133.5 | 1607.2 | 1317.4 | 1309.5 | 1323.1 | 1175.9 | 1133.2 | 1083.8 | 1096.1 | 1127.6 |
| 50°   | 5472.0 | 3298.7 | 1688.1 | 1265.8 | 1241.1 | 1197.3 | 1123.1 | 1082.7 | 1019.8 | 990.6  | 998.5  |
| 52.5° | 5840.3 | 3458.1 | 1720.7 | 1202.8 | 1167.0 | 1116.4 | 1087.2 | 1037.8 | 961.4  | 913.1  | 911.9  |
| 55°   | 6189.7 | 3603.1 | 1684.7 | 1127.6 | 1092.9 | 1053.5 | 1049.0 | 1018.6 | 936.7  | 869.3  | 869.3  |
| 57.5° | 6519.8 | 3724.3 | 1594.9 | 1051.2 | 1017.5 | 993.9  | 1024.3 | 1009.7 | 906.4  | 819.9  | 815.4  |
| 60°   | 6799.4 | 3807.5 | 1464.6 | 973.7  | 950.2  | 937.8  | 983.9  | 979.4  | 863.7  | 767.1  | 763.7  |
| 62.5° | 7021.9 | 3840.1 | 1320.8 | 899.6  | 894.0  | 871.6  | 927.7  | 927.7  | 809.7  | 715.4  | 712.1  |
| 65°   | 7195.9 | 3808.6 | 1174.9 | 826.7  | 837.8  | 804.2  | 859.2  | 852.5  | 752.5  | 669.4  | 664.9  |
| 67.5° | 7349.9 | 3705.3 | 1013.1 | 754.7  | 780.5  | 737.9  | 787.3  | 771.6  | 689.6  | 623.3  | 618.9  |
| 70°   | 7418.3 | 3464.9 | 828.9  | 682.9  | 714.3  | 672.8  | 715.4  | 686.2  | 618.9  | 573.9  | 565.0  |
| 72.5° | 6868.0 | 2879.7 | 652.5  | 607.6  | 634.6  | 600.9  | 638.0  | 604.2  | 542.4  | 522.2  | 505.4  |
| 75°   | 5682.0 | 2160.9 | 502.0  | 525.6  | 545.8  | 520.0  | 544.7  | 520.0  | 463.8  | 478.5  | 436.9  |
| 77.5° | 4126.4 | 1459.0 | 384.1  | 439.1  | 448.1  | 434.7  | 456.0  | 427.9  | 377.4  | 374.0  | 357.1  |
| 80°   | 2051.9 | 854.7  | 301.0  | 347.1  | 343.7  | 334.7  | 359.4  | 345.9  | 303.3  | 321.2  | 317.9  |
| 82.5° | 594.1  | 366.1  | 219.0  | 243.7  | 237.0  | 239.2  | 257.2  | 263.9  | 395.3  | 392.0  | 401.0  |
| 85°   | 186.4  | 143.8  | 131.4  | 135.9  | 129.1  | 132.5  | 151.6  | 301.0  | 278.5  | 162.9  | 176.3  |
| 87.5° | 48.3   | 49.4   | 32.6   | 34.8   | 36.0   | 42.6   | 48.3   | 183.1  | 87.6   | 57.3   | 60.7   |
| 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)