

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: P195366

Luminaire Tested: **NVN-AF-06-LED-U-T3R-7060-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P195366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-AF-06-LED-U-T3R-7060-600  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24140 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

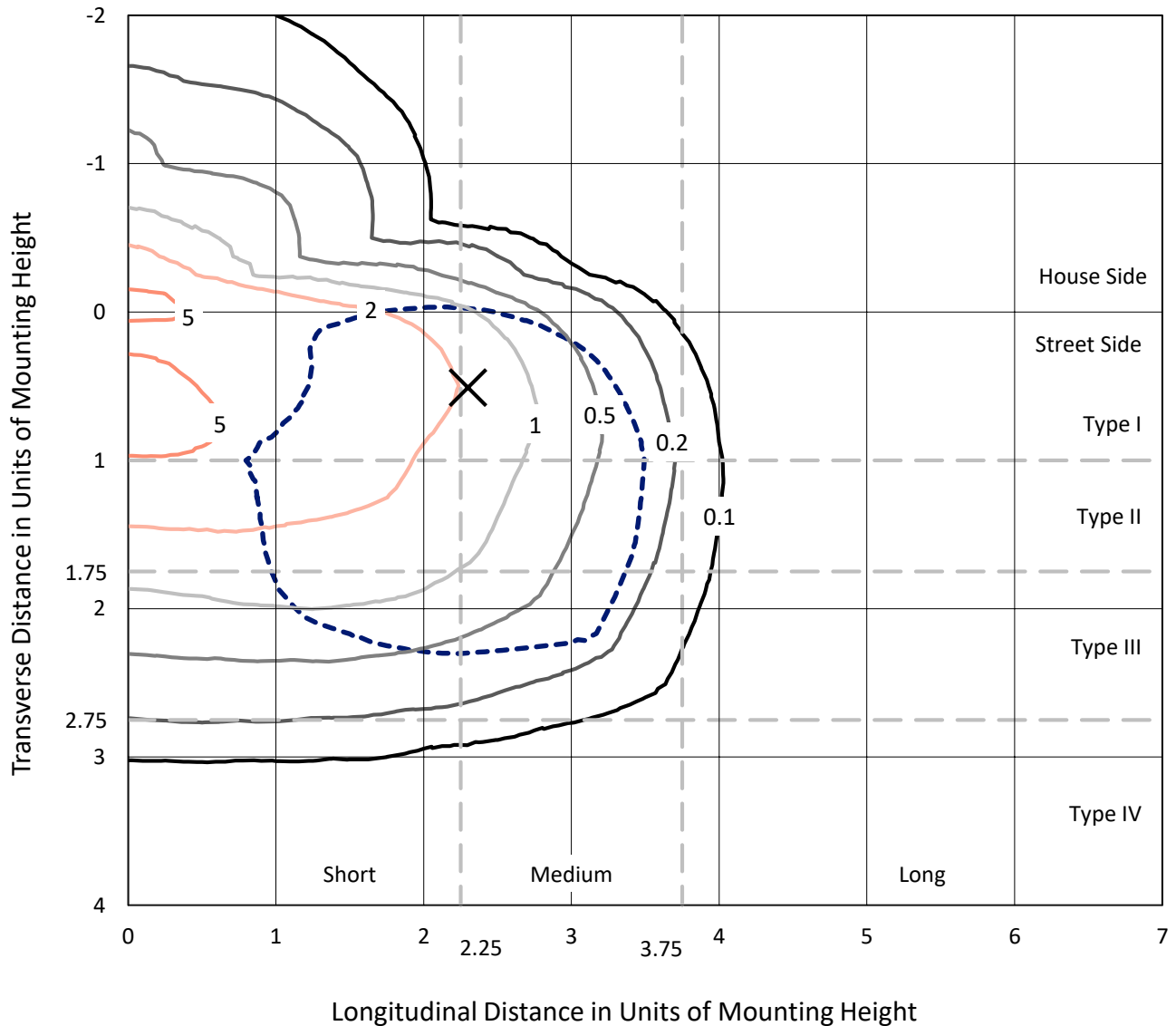
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

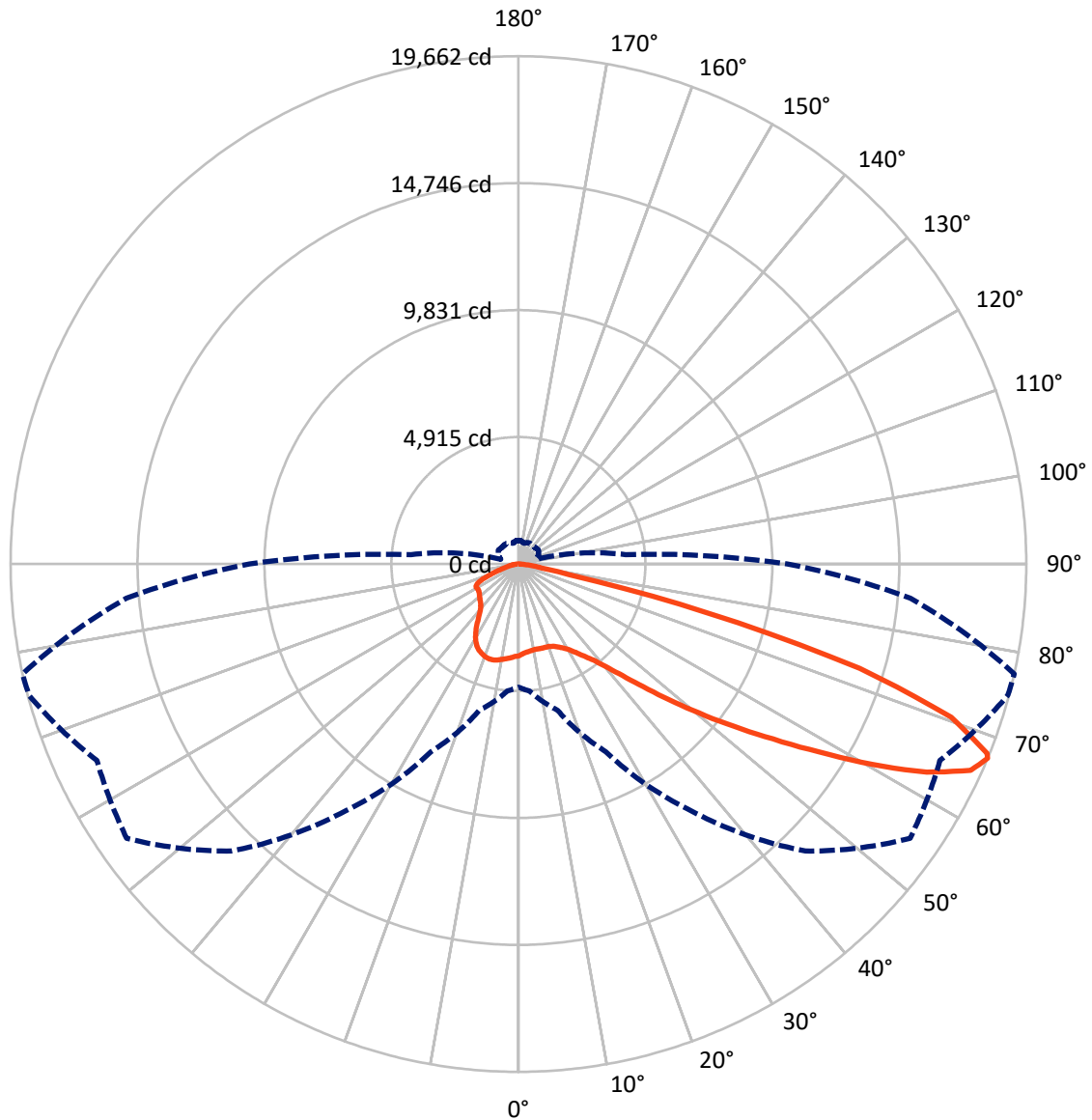
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type III - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4148.5   | 0.0    | 4148.5  |
|                    | % Fixture | 17.2     | 0.0    | 17.2    |
| <b>Street Side</b> | Lumens    | 19991.6  | 0.0    | 19991.6 |
|                    | % Fixture | 82.8     | 0.0    | 82.8    |
| <b>Total</b>       | Lumens    | 24140.0  | 0.0    | 24140.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 316.4   | 1.3       |
| 10°-20°   | 876.3   | 3.6       |
| 20°-30°   | 1488.9  | 6.2       |
| 30°-40°   | 2381.9  | 9.9       |
| 40°-50°   | 3667.0  | 15.2      |
| 50°-60°   | 5087.6  | 21.1      |
| 60°-70°   | 6786.5  | 28.1      |
| 70°-80°   | 3229.7  | 13.4      |
| 80°-90°   | 305.8   | 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°    | 24140.0 | 100.0     |
| 0°-180°   | 24140.0 | 100.0     |

**Coefficient of Utilization**



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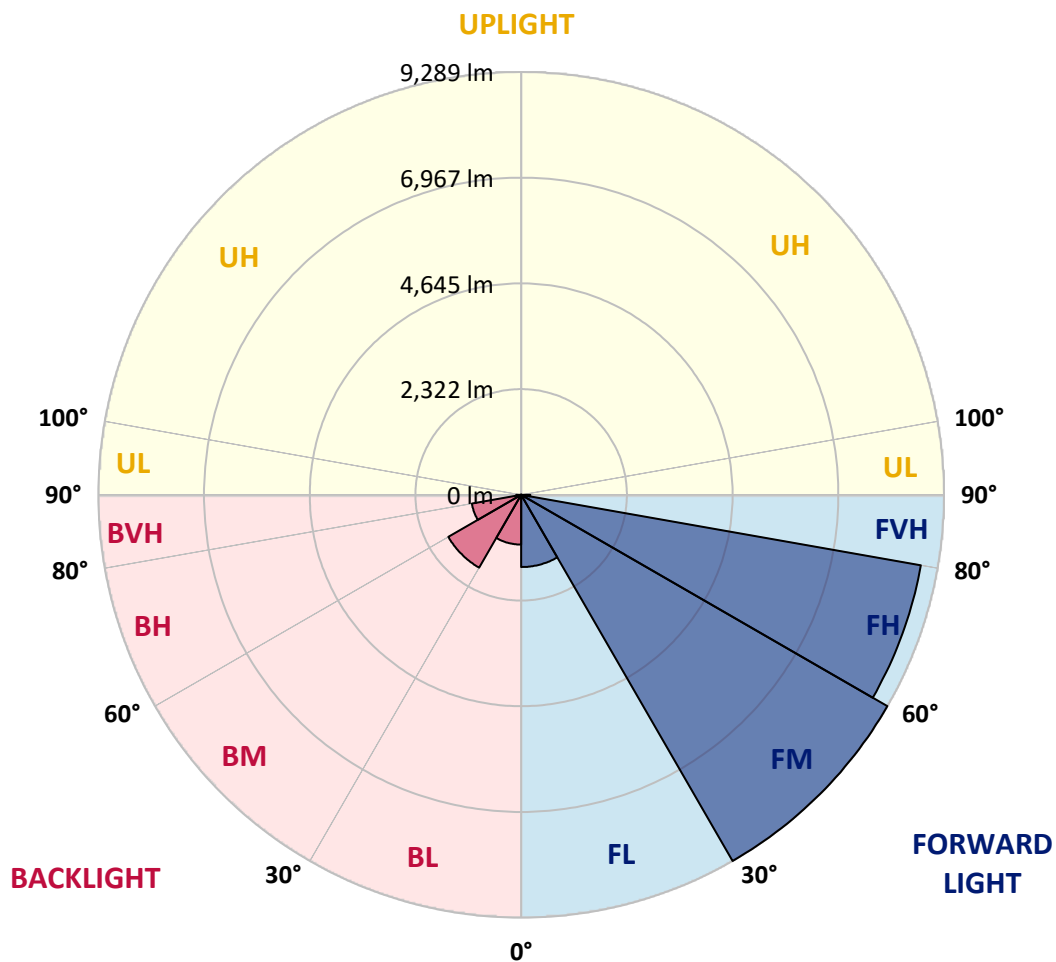
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1587.4 | 6.6       |                         |      |          |
| FM   | (30°-60°)   | 9289.3 | 38.5      |                         |      |          |
| FH   | (60°-80°)   | 8916.2 | 36.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 198.6  | 0.8       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1094.2 | 4.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1847.1 | 7.7       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1099.9 | 4.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 107.2  | 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°     | 77.5°   | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3552.8 | 3552.8 | 3552.8 | 3552.8 | 3552.8  | 3552.8  | 3552.8  | 3552.8  | 3552.8  | 3552.8  | 3552.8  |
| 2.5°  | 3185.7 | 3200.6 | 3202.1 | 3245.4 | 3264.8  | 3314.0  | 3367.7  | 3415.5  | 3457.3  | 3472.2  | 3499.1  |
| 5°    | 2866.4 | 2866.4 | 2870.9 | 2899.2 | 2954.4  | 3033.5  | 3145.4  | 3267.8  | 3396.1  | 3427.4  | 3506.5  |
| 7.5°  | 2699.3 | 2702.3 | 2705.2 | 2733.6 | 2776.9  | 2847.0  | 2958.9  | 3126.0  | 3339.4  | 3391.6  | 3530.4  |
| 10°   | 2714.2 | 2709.7 | 2694.8 | 2688.8 | 2706.7  | 2751.5  | 2848.5  | 3020.1  | 3291.7  | 3372.2  | 3573.7  |
| 12.5° | 2948.5 | 2939.5 | 2890.3 | 2818.6 | 2753.0  | 2736.6  | 2803.7  | 2966.4  | 3269.3  | 3372.2  | 3646.8  |
| 15°   | 3349.8 | 3355.8 | 3258.8 | 3109.6 | 2938.0  | 2821.6  | 2812.7  | 2947.0  | 3261.8  | 3381.2  | 3731.8  |
| 17.5° | 3872.1 | 3875.1 | 3740.8 | 3524.4 | 3239.4  | 2999.2  | 2873.9  | 2947.0  | 3261.8  | 3390.1  | 3813.9  |
| 20°   | 4427.2 | 4406.3 | 4254.1 | 3982.5 | 3612.5  | 3245.4  | 2985.8  | 2964.9  | 3270.8  | 3403.6  | 3891.5  |
| 22.5° | 4903.2 | 4883.8 | 4724.1 | 4439.1 | 4015.3  | 3536.4  | 3136.5  | 3024.6  | 3320.0  | 3458.8  | 4000.4  |
| 25°   | 5319.5 | 5331.4 | 5176.2 | 4855.4 | 4416.7  | 3864.6  | 3361.8  | 3161.8  | 3423.0  | 3558.7  | 4134.7  |
| 27.5° | 5825.3 | 5802.9 | 5623.9 | 5318.0 | 4830.0  | 4204.8  | 3643.8  | 3334.9  | 3545.3  | 3679.6  | 4298.8  |
| 30°   | 6410.2 | 6399.8 | 6158.0 | 5843.2 | 5285.1  | 4585.3  | 3922.8  | 3521.4  | 3705.0  | 3845.2  | 4504.8  |
| 32.5° | 7120.5 | 7119.0 | 6859.3 | 6472.9 | 5796.9  | 5015.1  | 4252.6  | 3776.6  | 3937.7  | 4079.5  | 4777.8  |
| 35°   | 7924.7 | 7923.2 | 7654.7 | 7144.3 | 6386.3  | 5491.1  | 4640.5  | 4087.0  | 4225.7  | 4374.9  | 5103.1  |
| 37.5° | 8482.8 | 8473.8 | 8333.6 | 7838.2 | 7038.4  | 6044.6  | 5125.5  | 4504.8  | 4552.5  | 4719.6  | 5495.5  |
| 40°   | 8590.2 | 8643.9 | 8764.8 | 8472.3 | 7750.1  | 6659.4  | 5611.9  | 4953.9  | 4998.7  | 5213.5  | 5989.4  |
| 42.5° | 8473.8 | 8544.0 | 8945.4 | 9027.4 | 8461.9  | 7404.0  | 6220.7  | 5576.1  | 5632.8  | 5899.9  | 6569.9  |
| 45°   | 8372.4 | 8433.5 | 8936.4 | 9334.8 | 9164.7  | 8215.7  | 6980.2  | 6335.6  | 6443.0  | 6774.3  | 7232.4  |
| 47.5° | 8199.3 | 8256.0 | 8760.3 | 9390.0 | 9566.1  | 8997.6  | 7894.9  | 7248.8  | 7433.8  | 7835.2  | 7987.4  |
| 50°   | 8190.3 | 8215.7 | 8520.1 | 9205.0 | 9704.8  | 9591.4  | 8908.0  | 8317.2  | 8600.7  | 9063.2  | 8823.0  |
| 52.5° | 7963.5 | 8141.1 | 8417.1 | 8909.5 | 9707.8  | 9937.6  | 9906.3  | 9488.5  | 9925.7  | 10437.5 | 9739.2  |
| 55°   | 6575.8 | 6780.3 | 8073.9 | 8764.8 | 9689.9  | 10234.6 | 10818.0 | 10734.4 | 11417.8 | 11956.5 | 10765.8 |
| 57.5° | 6140.1 | 6226.7 | 7083.2 | 8808.1 | 9839.1  | 10725.5 | 11729.7 | 12072.9 | 13124.8 | 13712.7 | 11996.8 |
| 60°   | 6020.8 | 6111.8 | 6884.7 | 8829.0 | 10243.5 | 11619.3 | 12966.7 | 13584.4 | 15131.7 | 15755.5 | 13394.9 |
| 62.5° | 5888.0 | 6005.8 | 6899.6 | 8848.4 | 10953.8 | 12941.3 | 14608.0 | 15224.3 | 17192.4 | 17748.9 | 14705.0 |
| 65°   | 5500.0 | 5656.7 | 6623.6 | 8726.0 | 11731.2 | 14600.5 | 16777.6 | 16934.2 | 18894.9 | 19248.5 | 15495.8 |
| 67°   | 4764.4 | 4936.0 | 5865.6 | 8018.7 | 11659.5 | 15718.2 | 18512.9 | 18004.1 | 19618.6 | 19661.9 | 15239.2 |
| 67.5° | 4531.6 | 4709.2 | 5608.9 | 7724.8 | 11455.1 | 15864.4 | 18820.3 | 18151.8 | 19612.6 | 19564.9 | 15000.4 |
| 70°   | 3051.4 | 3251.4 | 3972.1 | 5671.6 | 9188.6  | 14764.7 | 18745.7 | 17696.7 | 18326.4 | 17778.8 | 12887.6 |
| 72.5° | 1514.5 | 1520.5 | 1981.6 | 3106.6 | 5567.2  | 10589.7 | 15637.6 | 15139.2 | 14855.7 | 13821.6 | 9457.2  |
| 75°   | 729.7  | 743.1  | 935.6  | 1372.8 | 2347.1  | 5467.2  | 10664.3 | 10215.2 | 8697.7  | 7530.8  | 4733.1  |
| 77.5° | 556.6  | 570.0  | 726.7  | 893.8  | 978.8   | 1783.1  | 5282.2  | 4269.0  | 2520.2  | 2012.9  | 1334.0  |
| 80°   | 429.7  | 455.1  | 613.3  | 686.4  | 647.6   | 714.7   | 1660.7  | 1307.1  | 980.3   | 899.8   | 661.0   |
| 82.5° | 335.7  | 350.7  | 520.8  | 520.8  | 447.6   | 479.0   | 772.9   | 755.0   | 608.8   | 549.1   | 355.1   |
| 85°   | 237.2  | 267.1  | 419.3  | 388.0  | 294.0   | 296.9   | 462.6   | 443.2   | 313.3   | 252.2   | 138.8   |
| 87.5° | 105.9  | 135.8  | 298.4  | 253.7  | 156.7   | 120.9   | 189.5   | 162.6   | 123.8   | 95.5    | 64.2    |
| 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°    | 3552.8  | 3552.8 | 3552.8 | 3552.8 | 3552.8 | 3552.8 | 3552.8 | 3552.8 | 3552.8 | 3552.8 | 3552.8 |
| 2.5°  | 3528.9  | 3552.8 | 3590.1 | 3612.5 | 3642.3 | 3654.2 | 3666.2 | 3687.1 | 3703.5 | 3699.0 | 3691.5 |
| 5°    | 3561.7  | 3602.0 | 3648.3 | 3663.2 | 3663.2 | 3648.3 | 3639.3 | 3640.8 | 3636.3 | 3633.3 | 3624.4 |
| 7.5°  | 3609.5  | 3664.7 | 3697.5 | 3682.6 | 3636.3 | 3578.1 | 3522.9 | 3490.1 | 3458.8 | 3439.4 | 3445.3 |
| 10°   | 3676.6  | 3737.8 | 3739.3 | 3673.6 | 3563.2 | 3436.4 | 3327.5 | 3257.3 | 3190.2 | 3160.3 | 3169.3 |
| 12.5° | 3773.6  | 3834.8 | 3782.6 | 3640.8 | 3446.8 | 3248.4 | 3048.4 | 2903.7 | 2773.9 | 2742.5 | 2733.6 |
| 15°   | 3878.1  | 3925.8 | 3809.4 | 3570.7 | 3279.7 | 2952.9 | 2617.2 | 2400.8 | 2256.1 | 2230.7 | 2221.8 |
| 17.5° | 3969.1  | 3995.9 | 3796.0 | 3445.3 | 3015.6 | 2500.8 | 2109.9 | 1963.6 | 1933.8 | 1948.7 | 1948.7 |
| 20°   | 4049.7  | 4040.7 | 3737.8 | 3251.4 | 2599.3 | 1999.5 | 1772.7 | 1771.2 | 1811.5 | 1848.8 | 1851.7 |
| 22.5° | 4151.1  | 4081.0 | 3645.3 | 2963.4 | 2102.4 | 1668.2 | 1629.4 | 1668.2 | 1713.0 | 1754.8 | 1759.2 |
| 25°   | 4272.0  | 4125.8 | 3521.4 | 2553.0 | 1690.6 | 1514.5 | 1530.9 | 1563.8 | 1592.1 | 1624.9 | 1626.4 |
| 27.5° | 4392.8  | 4160.1 | 3346.9 | 2071.1 | 1466.8 | 1416.0 | 1433.9 | 1447.4 | 1454.8 | 1475.7 | 1475.7 |
| 30°   | 4533.1  | 4186.9 | 3094.7 | 1659.3 | 1363.8 | 1329.5 | 1319.0 | 1313.1 | 1319.0 | 1347.4 | 1348.9 |
| 32.5° | 4709.2  | 4234.7 | 2750.0 | 1423.5 | 1316.1 | 1268.3 | 1214.6 | 1184.8 | 1205.6 | 1256.4 | 1265.3 |
| 35°   | 4909.1  | 4291.4 | 2336.7 | 1329.5 | 1299.6 | 1238.5 | 1140.0 | 1093.7 | 1101.2 | 1147.5 | 1154.9 |
| 37.5° | 5159.8  | 4364.5 | 1929.3 | 1307.1 | 1316.1 | 1235.5 | 1105.7 | 1040.0 | 1007.2 | 1008.7 | 1007.2 |
| 40°   | 5480.6  | 4437.6 | 1607.0 | 1313.1 | 1351.9 | 1242.9 | 1089.3 | 986.3  | 917.7  | 920.6  | 926.6  |
| 42.5° | 5816.3  | 4485.4 | 1402.6 | 1331.0 | 1395.1 | 1253.4 | 1083.3 | 934.1  | 874.4  | 925.1  | 971.4  |
| 45°   | 6208.8  | 4471.9 | 1296.7 | 1347.4 | 1428.0 | 1257.9 | 1060.9 | 928.1  | 878.9  | 1031.1 | 1117.6 |
| 47.5° | 6659.4  | 4413.7 | 1237.0 | 1354.9 | 1436.9 | 1256.4 | 1044.5 | 947.5  | 916.2  | 1180.3 | 1278.8 |
| 50°   | 7148.8  | 4322.7 | 1189.2 | 1342.9 | 1432.4 | 1250.4 | 1062.4 | 971.4  | 931.1  | 1213.1 | 1289.2 |
| 52.5° | 7684.5  | 4239.2 | 1140.0 | 1316.1 | 1410.1 | 1232.5 | 1084.8 | 960.9  | 889.3  | 1117.6 | 1175.8 |
| 55°   | 8318.7  | 4219.8 | 1084.8 | 1269.8 | 1372.8 | 1213.1 | 1072.8 | 928.1  | 843.1  | 990.8  | 1026.6 |
| 57.5° | 9043.8  | 4340.6 | 1013.2 | 1213.1 | 1322.0 | 1174.3 | 1044.5 | 910.2  | 826.6  | 901.2  | 920.6  |
| 60°   | 9964.5  | 4607.7 | 937.1  | 1153.4 | 1259.4 | 1116.1 | 1019.1 | 914.7  | 831.1  | 887.8  | 892.3  |
| 62.5° | 10683.7 | 4847.9 | 868.4  | 1080.3 | 1175.8 | 1046.0 | 992.3  | 919.2  | 844.5  | 905.7  | 898.3  |
| 65°   | 10944.8 | 4730.1 | 783.4  | 971.4  | 1057.9 | 968.4  | 955.0  | 922.1  | 844.5  | 916.2  | 899.8  |
| 67°   | 10409.1 | 4167.5 | 702.8  | 862.5  | 946.0  | 899.8  | 919.2  | 910.2  | 829.6  | 914.7  | 886.3  |
| 67.5° | 10154.0 | 3969.1 | 681.9  | 844.5  | 916.2  | 878.9  | 910.2  | 904.2  | 825.2  | 911.7  | 878.9  |
| 70°   | 8373.9  | 2847.0 | 576.0  | 708.8  | 767.0  | 774.4  | 855.0  | 865.4  | 789.3  | 856.5  | 796.8  |
| 72.5° | 5958.1  | 1781.6 | 496.9  | 549.1  | 619.2  | 662.5  | 780.4  | 813.2  | 741.6  | 744.6  | 695.3  |
| 75°   | 2948.5  | 956.5  | 443.2  | 423.8  | 482.0  | 552.1  | 680.4  | 741.6  | 671.5  | 620.7  | 604.3  |
| 77.5° | 995.3   | 541.6  | 374.5  | 341.7  | 374.5  | 443.2  | 564.0  | 647.6  | 592.4  | 525.2  | 514.8  |
| 80°   | 514.8   | 393.9  | 292.5  | 274.6  | 295.4  | 343.2  | 441.7  | 538.7  | 505.8  | 508.8  | 419.3  |
| 82.5° | 320.8   | 240.2  | 210.4  | 208.9  | 223.8  | 262.6  | 325.3  | 437.2  | 434.2  | 371.5  | 270.1  |
| 85°   | 149.2   | 138.8  | 134.3  | 138.8  | 143.2  | 149.2  | 211.9  | 311.9  | 329.8  | 199.9  | 177.6  |
| 87.5° | 62.7    | 61.2   | 53.7   | 58.2   | 64.2   | 62.7   | 85.1   | 132.8  | 185.0  | 125.3  | 114.9  |
| 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)