

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: P195169

Luminaire Tested: **NVN-AF-01-LED-U-SL3-7060-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P195169  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-AF-01-LED-U-SL3-7060-600  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4020 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

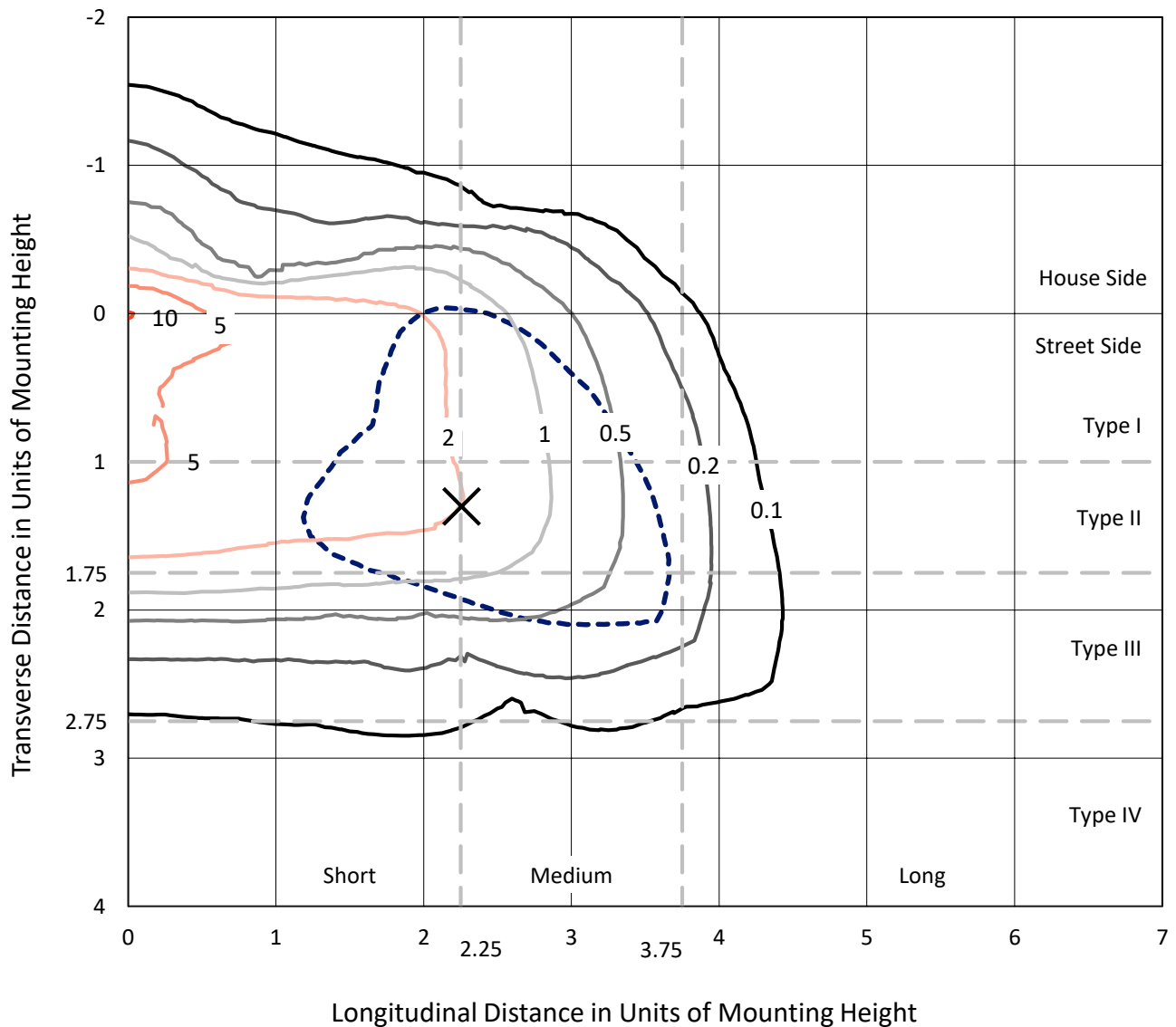
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

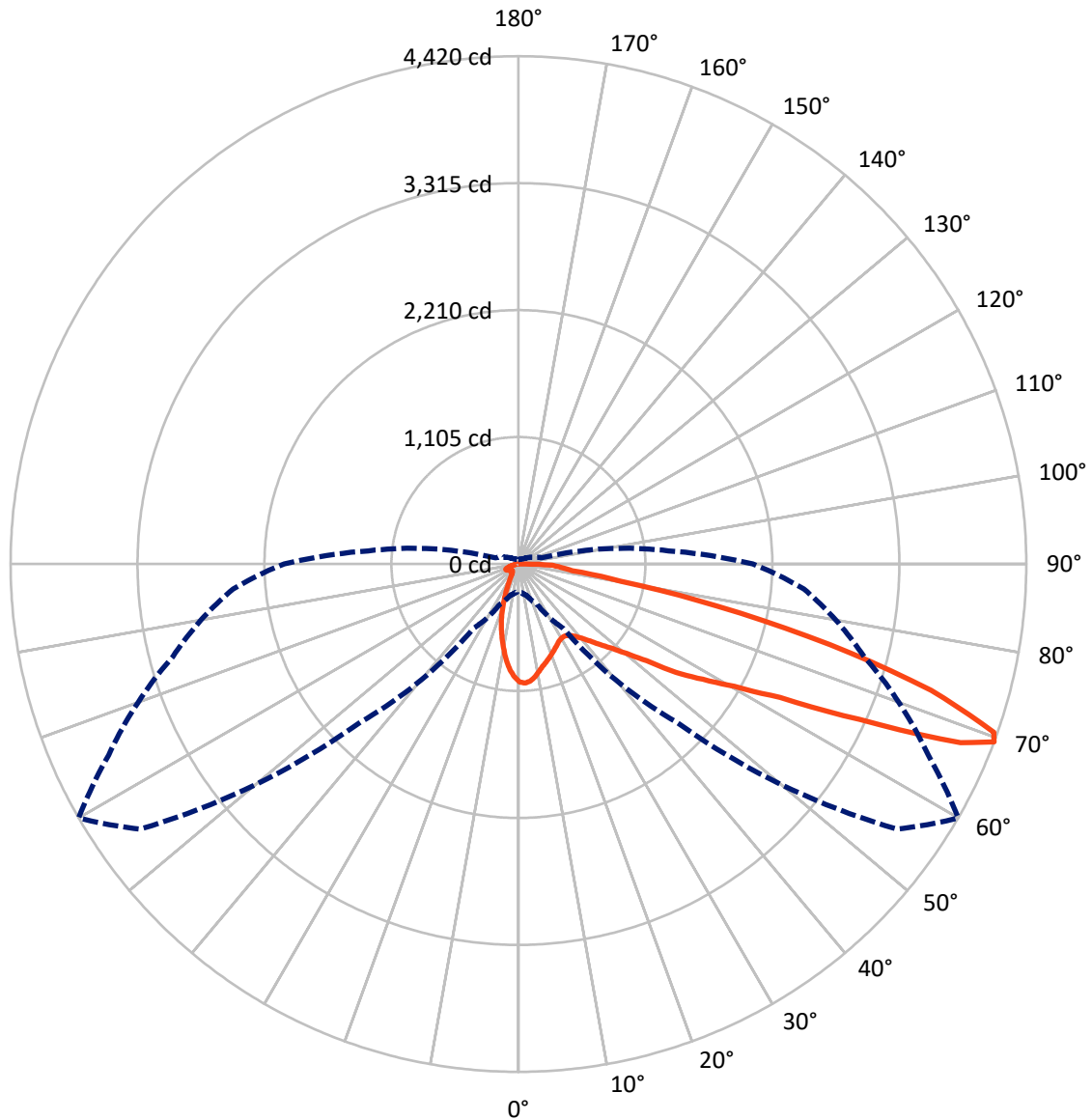
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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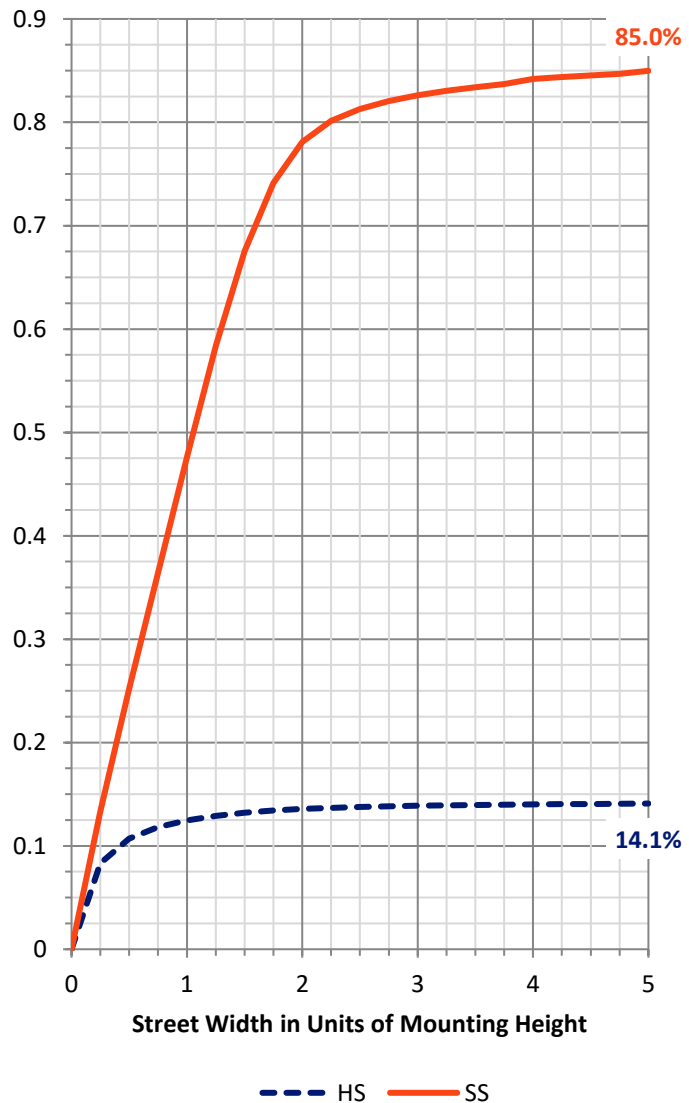
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 573.4    | 0.0    | 573.4  |
|                    | % Fixture | 14.3     | 0.0    | 14.3   |
| <b>Street Side</b> | Lumens    | 3446.6   | 0.0    | 3446.6 |
|                    | % Fixture | 85.7     | 0.0    | 85.7   |
| <b>Total</b>       | Lumens    | 4020.0   | 0.0    | 4020.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 87.0   | 2.2       |
| 10°-20°   | 186.3  | 4.6       |
| 20°-30°   | 237.7  | 5.9       |
| 30°-40°   | 327.1  | 8.1       |
| 40°-50°   | 529.8  | 13.2      |
| 50°-60°   | 831.5  | 20.7      |
| 60°-70°   | 1108.5 | 27.6      |
| 70°-80°   | 616.6  | 15.3      |
| 80°-90°   | 95.6   | 2.4       |
| 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°    | 4020.0 | 100.0     |
| 0°-180°   | 4020.0 | 100.0     |

**Coefficient of Utilization**



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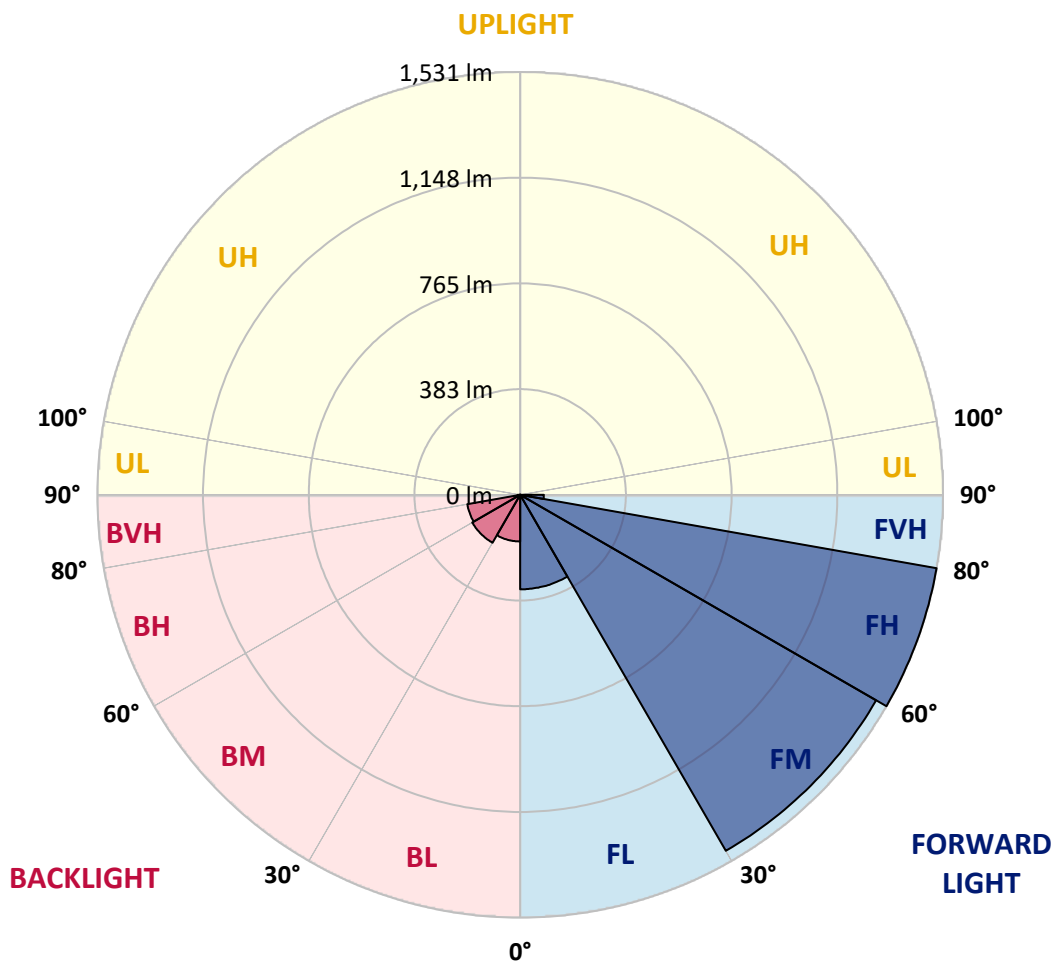
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 342.0  | 8.5       |                         |      |         |
| FM   | (30°-60°)   | 1488.0 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 1530.7 | 38.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 85.9   | 2.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 169.0  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 200.3  | 5.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 194.4  | 4.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 9.7    | 0.2       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 |
| 2.5°  | 1053.0 | 1055.9 | 1055.9 | 1053.6 | 1052.3 | 1044.8 | 1040.4 | 1037.3 | 1031.9 | 1021.8 | 1012.8 |
| 5°    | 1015.4 | 1020.8 | 1023.1 | 1024.2 | 1030.9 | 1028.6 | 1028.8 | 1026.7 | 1022.1 | 1011.3 | 996.6  |
| 7.5°  | 946.3  | 947.3  | 951.5  | 958.4  | 974.7  | 986.0  | 995.3  | 997.1  | 996.1  | 988.1  | 967.5  |
| 10°   | 878.3  | 880.1  | 885.0  | 896.8  | 912.3  | 928.5  | 948.6  | 956.9  | 963.1  | 960.5  | 934.5  |
| 12.5° | 821.8  | 822.1  | 827.5  | 841.1  | 858.4  | 878.8  | 906.1  | 919.0  | 933.7  | 939.6  | 910.5  |
| 15°   | 767.4  | 771.0  | 776.2  | 792.7  | 814.1  | 839.9  | 871.3  | 889.1  | 908.4  | 925.4  | 891.9  |
| 17.5° | 726.2  | 729.0  | 732.1  | 745.8  | 770.5  | 802.7  | 841.7  | 860.7  | 886.3  | 912.3  | 872.9  |
| 20°   | 703.5  | 704.5  | 702.2  | 708.9  | 729.8  | 764.6  | 809.7  | 832.6  | 863.1  | 899.7  | 853.3  |
| 22.5° | 698.8  | 698.8  | 690.3  | 689.1  | 698.3  | 727.7  | 776.7  | 804.8  | 841.9  | 890.9  | 835.7  |
| 25°   | 720.5  | 719.0  | 703.0  | 688.3  | 684.9  | 699.9  | 745.2  | 779.8  | 823.9  | 890.6  | 822.6  |
| 27.5° | 761.5  | 759.4  | 739.6  | 714.8  | 693.4  | 687.0  | 721.0  | 756.3  | 809.7  | 899.4  | 815.9  |
| 30°   | 812.5  | 811.8  | 791.6  | 760.7  | 725.4  | 692.1  | 711.5  | 744.2  | 800.2  | 915.6  | 815.6  |
| 32.5° | 868.5  | 864.9  | 852.5  | 821.6  | 775.7  | 720.8  | 717.2  | 744.7  | 797.6  | 939.4  | 821.6  |
| 35°   | 928.0  | 925.4  | 922.3  | 891.2  | 839.6  | 771.3  | 742.2  | 762.5  | 810.2  | 972.4  | 838.3  |
| 37.5° | 1003.8 | 1001.0 | 1006.1 | 972.1  | 915.6  | 837.5  | 784.4  | 798.1  | 836.0  | 1020.3 | 869.5  |
| 40°   | 1138.6 | 1130.4 | 1115.9 | 1063.6 | 1004.3 | 918.7  | 845.5  | 847.6  | 880.1  | 1084.5 | 919.5  |
| 42.5° | 1360.1 | 1333.5 | 1262.1 | 1165.9 | 1097.9 | 1013.1 | 925.2  | 915.4  | 940.9  | 1169.3 | 992.2  |
| 45°   | 1582.0 | 1552.1 | 1431.5 | 1277.6 | 1194.8 | 1114.4 | 1023.7 | 1000.2 | 1016.7 | 1268.0 | 1085.8 |
| 47.5° | 1725.3 | 1710.6 | 1574.5 | 1389.2 | 1296.4 | 1224.7 | 1136.3 | 1097.6 | 1109.5 | 1379.9 | 1201.3 |
| 50°   | 1767.4 | 1754.7 | 1647.7 | 1476.6 | 1392.3 | 1358.0 | 1275.8 | 1224.5 | 1226.5 | 1510.6 | 1339.7 |
| 52.5° | 1735.9 | 1730.8 | 1659.9 | 1530.7 | 1480.4 | 1498.5 | 1468.8 | 1397.4 | 1380.4 | 1653.9 | 1489.7 |
| 55°   | 1693.9 | 1695.7 | 1668.4 | 1585.1 | 1570.2 | 1629.4 | 1721.5 | 1664.0 | 1591.8 | 1803.2 | 1645.9 |
| 57.5° | 1561.6 | 1562.9 | 1634.6 | 1688.7 | 1741.3 | 1813.0 | 1918.2 | 1893.9 | 1809.9 | 1964.3 | 1821.0 |
| 60°   | 1257.5 | 1267.5 | 1427.1 | 1667.3 | 1937.0 | 2174.7 | 2200.4 | 2158.7 | 2041.9 | 2149.9 | 2048.6 |
| 62.5° | 898.4  | 907.4  | 1092.2 | 1447.4 | 1914.0 | 2584.0 | 2721.7 | 2555.7 | 2356.6 | 2427.5 | 2368.8 |
| 65°   | 472.0  | 470.5  | 613.5  | 1000.2 | 1612.2 | 2678.9 | 3543.0 | 3260.4 | 2886.9 | 2809.3 | 2678.1 |
| 67.5° | 263.7  | 272.2  | 327.6  | 504.5  | 1050.7 | 2357.7 | 4067.5 | 4150.8 | 3624.2 | 3112.2 | 2664.7 |
| 69°   | 243.9  | 246.7  | 283.8  | 390.0  | 684.9  | 1945.2 | 4022.4 | 4419.7 | 3935.0 | 3113.5 | 2493.0 |
| 70°   | 236.9  | 240.0  | 273.8  | 359.3  | 575.4  | 1593.9 | 3858.2 | 4388.2 | 4010.6 | 3044.4 | 2336.8 |
| 72.5° | 212.4  | 216.5  | 249.3  | 323.0  | 484.9  | 821.6  | 3107.8 | 3755.9 | 3632.9 | 2660.8 | 1812.0 |
| 75°   | 181.2  | 188.2  | 237.7  | 320.7  | 459.4  | 522.3  | 2072.6 | 2798.2 | 2703.9 | 1902.9 | 1028.0 |
| 77.5° | 75.0   | 75.8   | 103.9  | 234.8  | 482.1  | 499.8  | 1113.9 | 1772.5 | 1569.1 | 834.4  | 309.6  |
| 80°   | 52.3   | 51.3   | 51.8   | 68.6   | 389.0  | 503.2  | 571.5  | 901.5  | 700.7  | 220.1  | 144.9  |
| 82.5° | 44.1   | 43.6   | 45.6   | 43.0   | 131.7  | 571.0  | 477.9  | 469.9  | 330.0  | 118.6  | 69.1   |
| 85°   | 29.1   | 28.4   | 37.4   | 39.2   | 62.6   | 453.4  | 514.0  | 369.4  | 245.9  | 63.4   | 29.4   |
| 87.5° | 14.2   | 14.4   | 21.4   | 26.6   | 33.3   | 143.6  | 492.4  | 292.1  | 190.0  | 27.6   | 11.9   |
| 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°    | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 |
| 2.5°  | 1009.2 | 1001.5 | 994.5  | 985.8  | 979.1  | 973.4  | 965.7  | 965.4  | 964.1  | 965.9  | 966.4  |
| 5°    | 986.8  | 973.9  | 954.3  | 932.4  | 916.9  | 896.6  | 876.7  | 870.0  | 862.5  | 861.8  | 864.1  |
| 7.5°  | 953.0  | 932.9  | 899.4  | 865.9  | 832.4  | 798.1  | 765.6  | 749.1  | 733.1  | 728.2  | 730.6  |
| 10°   | 915.4  | 889.9  | 838.6  | 783.9  | 736.7  | 685.7  | 636.2  | 604.2  | 575.1  | 562.7  | 565.8  |
| 12.5° | 886.0  | 853.5  | 781.3  | 710.4  | 639.8  | 566.6  | 501.4  | 438.2  | 390.5  | 369.1  | 370.4  |
| 15°   | 860.7  | 819.2  | 727.7  | 633.4  | 545.0  | 444.7  | 354.2  | 281.0  | 239.2  | 223.8  | 223.2  |
| 17.5° | 833.4  | 783.1  | 671.8  | 561.7  | 447.0  | 323.0  | 237.2  | 193.9  | 177.4  | 172.2  | 172.2  |
| 20°   | 804.3  | 746.0  | 613.3  | 483.6  | 343.9  | 225.6  | 178.4  | 161.6  | 155.4  | 153.9  | 153.6  |
| 22.5° | 777.2  | 709.7  | 554.5  | 400.3  | 248.8  | 171.2  | 151.8  | 145.4  | 144.4  | 145.6  | 145.6  |
| 25°   | 755.8  | 677.7  | 494.9  | 312.7  | 181.0  | 143.3  | 135.1  | 134.3  | 138.2  | 142.8  | 143.6  |
| 27.5° | 739.8  | 649.1  | 436.2  | 228.4  | 142.3  | 124.8  | 121.9  | 125.3  | 134.3  | 143.6  | 145.4  |
| 30°   | 728.8  | 624.6  | 365.8  | 164.2  | 118.6  | 109.3  | 110.6  | 116.5  | 130.2  | 144.4  | 148.2  |
| 32.5° | 723.9  | 604.8  | 294.9  | 126.1  | 101.3  | 96.2   | 99.5   | 107.2  | 121.4  | 135.6  | 140.2  |
| 35°   | 728.5  | 590.3  | 229.4  | 104.7  | 88.7   | 84.8   | 88.7   | 96.7   | 105.9  | 112.9  | 115.7  |
| 37.5° | 745.2  | 585.2  | 172.7  | 92.8   | 80.4   | 76.6   | 79.7   | 85.1   | 89.2   | 91.8   | 93.1   |
| 40°   | 780.6  | 590.6  | 135.3  | 86.6   | 75.8   | 71.4   | 72.2   | 74.8   | 77.6   | 79.7   | 79.9   |
| 42.5° | 836.8  | 608.4  | 120.4  | 84.3   | 73.0   | 67.3   | 66.0   | 67.8   | 70.9   | 73.7   | 74.2   |
| 45°   | 911.5  | 638.0  | 118.8  | 85.1   | 71.7   | 63.9   | 61.4   | 63.2   | 67.3   | 71.9   | 72.7   |
| 47.5° | 1008.2 | 684.9  | 126.1  | 89.2   | 72.4   | 62.1   | 58.3   | 60.1   | 65.5   | 71.7   | 72.7   |
| 50°   | 1122.6 | 749.9  | 139.5  | 95.4   | 76.0   | 62.1   | 57.0   | 58.5   | 64.2   | 71.1   | 72.2   |
| 52.5° | 1257.5 | 840.4  | 153.4  | 101.6  | 81.2   | 64.4   | 57.5   | 57.2   | 62.4   | 68.8   | 70.1   |
| 55°   | 1406.2 | 952.8  | 166.8  | 107.0  | 84.0   | 67.5   | 58.8   | 55.7   | 59.8   | 65.0   | 66.0   |
| 57.5° | 1581.2 | 1106.7 | 190.2  | 112.1  | 85.6   | 69.9   | 60.3   | 54.1   | 56.5   | 60.1   | 60.8   |
| 60°   | 1818.7 | 1332.7 | 235.9  | 120.9  | 88.4   | 70.9   | 60.6   | 52.6   | 52.3   | 54.9   | 55.2   |
| 62.5° | 2128.3 | 1597.5 | 279.4  | 131.2  | 94.1   | 71.1   | 59.5   | 51.6   | 49.0   | 49.8   | 49.8   |
| 65°   | 2348.4 | 1694.9 | 266.8  | 140.0  | 99.2   | 70.9   | 58.5   | 50.8   | 46.4   | 45.1   | 45.1   |
| 67.5° | 2223.1 | 1497.2 | 226.6  | 142.3  | 99.8   | 68.1   | 56.2   | 49.0   | 44.1   | 41.0   | 41.0   |
| 69°   | 2039.1 | 1312.4 | 208.0  | 138.2  | 95.6   | 64.7   | 53.6   | 47.2   | 42.5   | 38.9   | 38.9   |
| 70°   | 1889.0 | 1172.4 | 196.7  | 133.3  | 90.7   | 61.9   | 51.3   | 45.4   | 41.0   | 37.9   | 37.6   |
| 72.5° | 1410.3 | 782.4  | 168.1  | 115.0  | 74.5   | 52.3   | 44.9   | 40.5   | 36.9   | 34.8   | 34.8   |
| 75°   | 744.2  | 392.1  | 137.7  | 93.8   | 57.5   | 41.8   | 36.9   | 34.0   | 32.0   | 31.7   | 31.4   |
| 77.5° | 243.9  | 177.4  | 99.0   | 70.6   | 42.3   | 32.5   | 29.4   | 27.6   | 27.3   | 28.4   | 28.4   |
| 80°   | 131.7  | 105.9  | 63.7   | 47.7   | 29.4   | 24.2   | 22.7   | 22.4   | 23.2   | 24.7   | 24.7   |
| 82.5° | 63.9   | 52.3   | 37.9   | 29.4   | 20.1   | 17.8   | 17.8   | 18.0   | 19.1   | 20.9   | 20.9   |
| 85°   | 27.6   | 24.7   | 21.9   | 16.5   | 12.4   | 11.1   | 12.6   | 13.9   | 14.7   | 16.0   | 16.5   |
| 87.5° | 13.1   | 11.6   | 10.1   | 6.4    | 5.4    | 5.7    | 6.7    | 8.2    | 9.8    | 10.8   | 11.1   |
| 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)