

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: P529775

Luminaire Tested: **GLAN-SA5A-722-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529775  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-722-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11135 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 154  
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

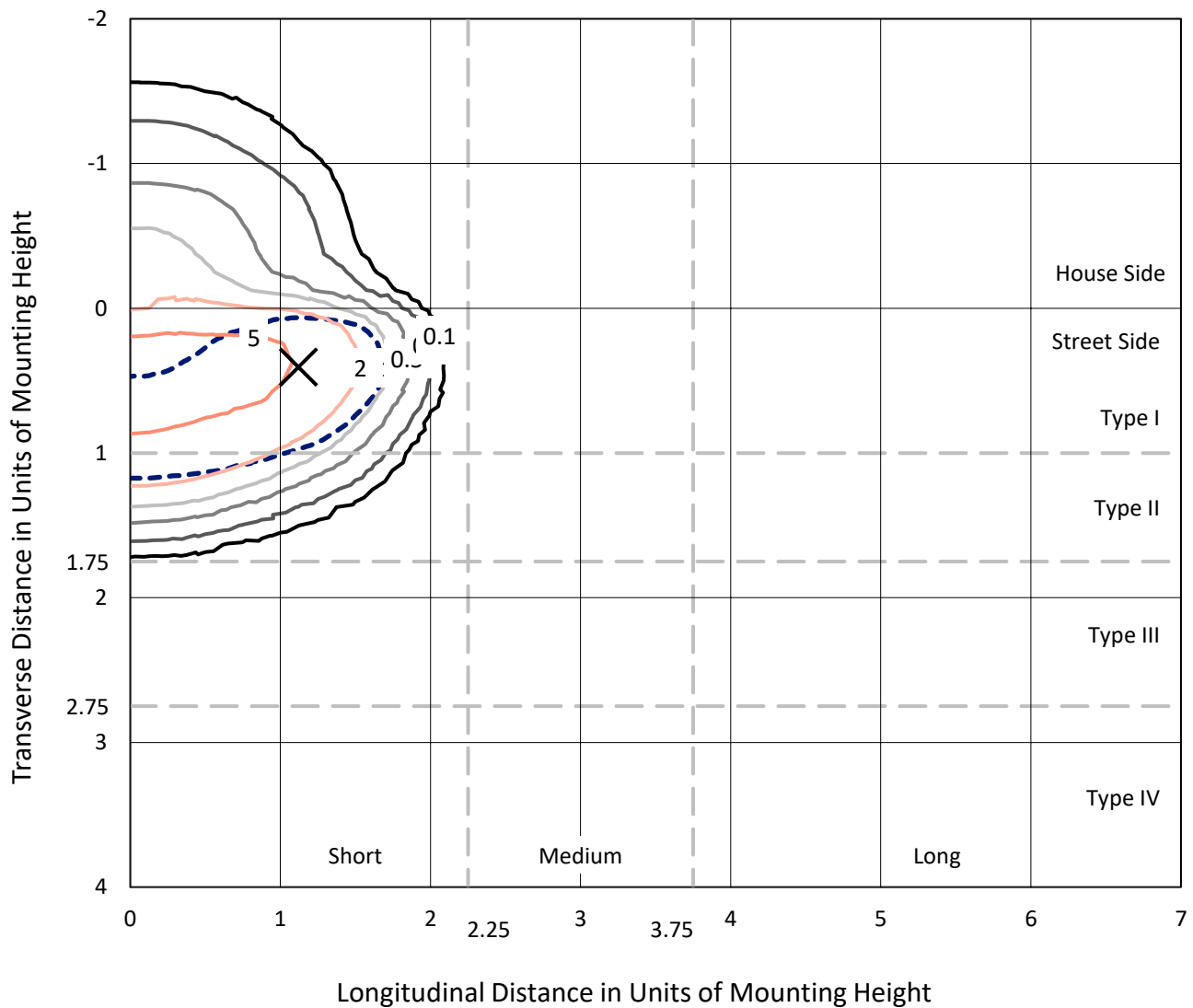


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

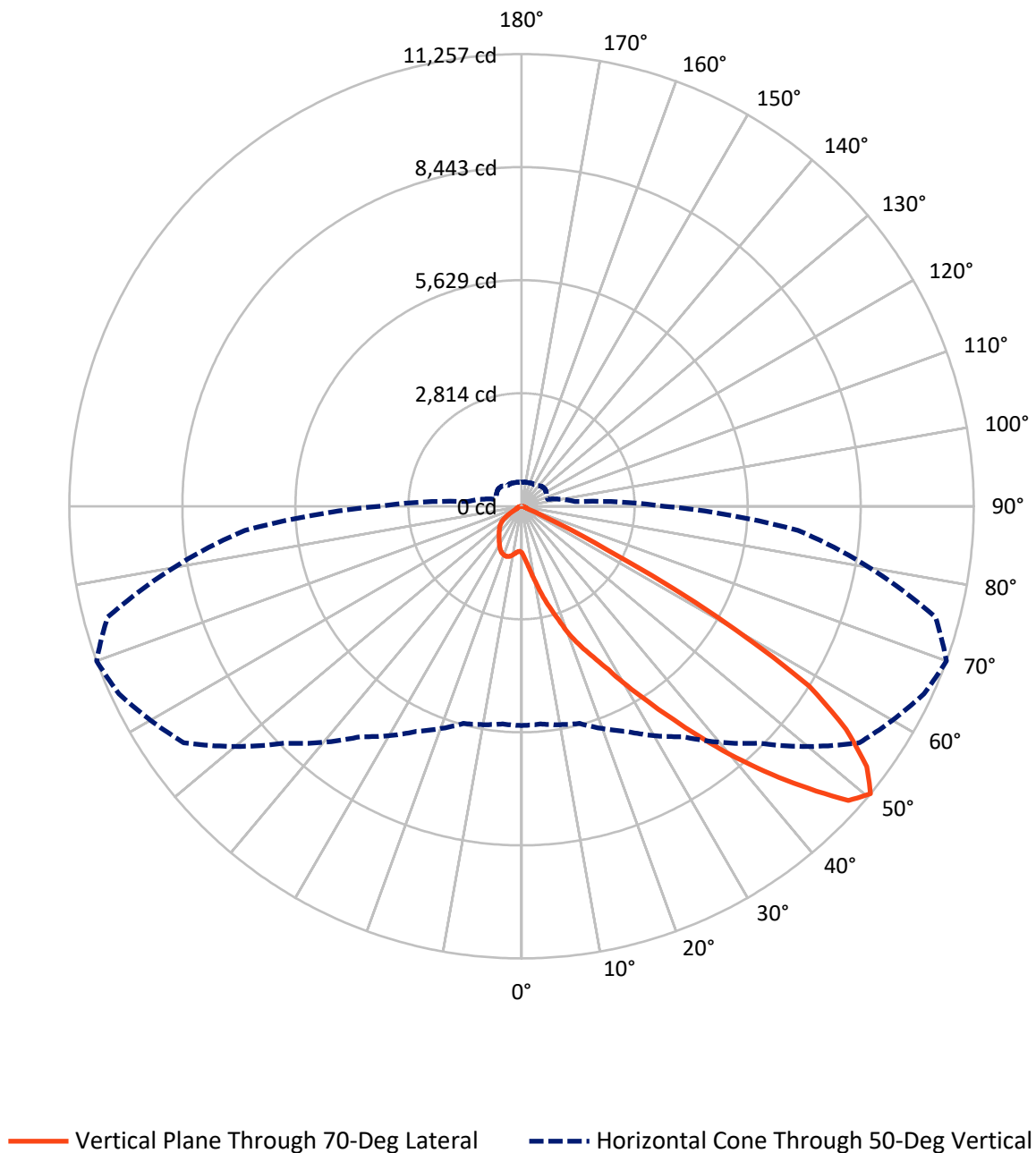


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type I - Short - N/A

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## Luminous Intensity Polar Plot



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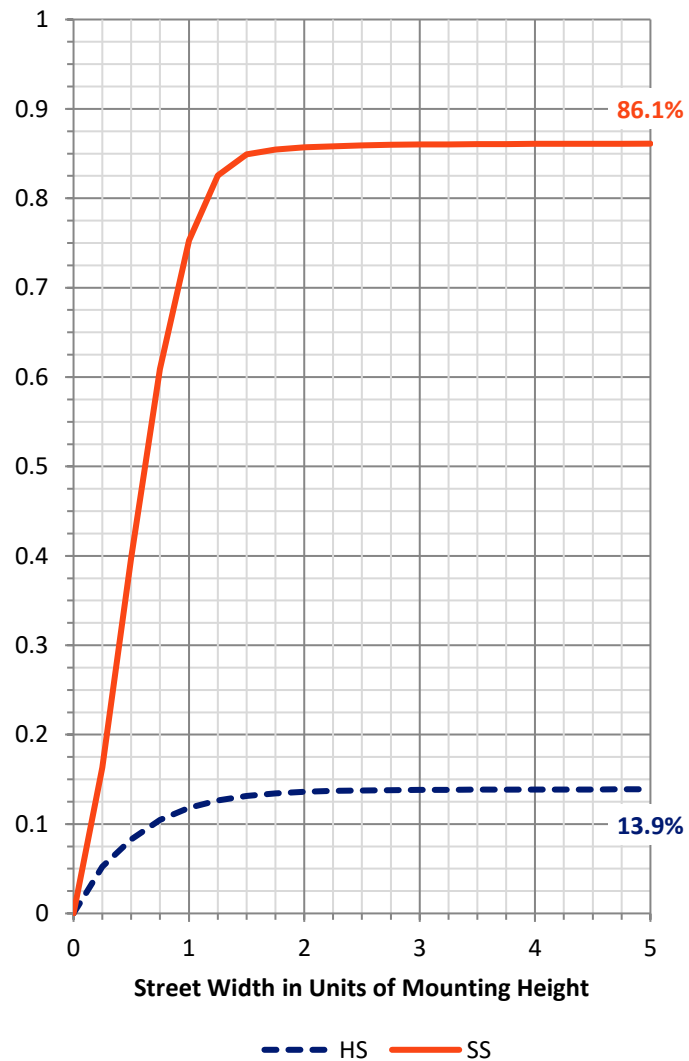
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1555.1   | 0.0    | 1555.1  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 9579.9   | 0.0    | 9579.9  |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 11135.0  | 0.0    | 11135.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 150.0   | 1.3       |
| 10°-20°   | 648.8   | 5.8       |
| 20°-30°   | 1361.0  | 12.2      |
| 30°-40°   | 2345.9  | 21.1      |
| 40°-50°   | 3428.5  | 30.8      |
| 50°-60°   | 2670.2  | 24.0      |
| 60°-70°   | 452.4   | 4.1       |
| 70°-80°   | 62.2    | 0.6       |
| 80°-90°   | 16.1    | 0.1       |
| 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°    | 11135.0 | 100.0     |
| 0°-180°   | 11135.0 | 100.0     |

**Coefficient of Utilization**



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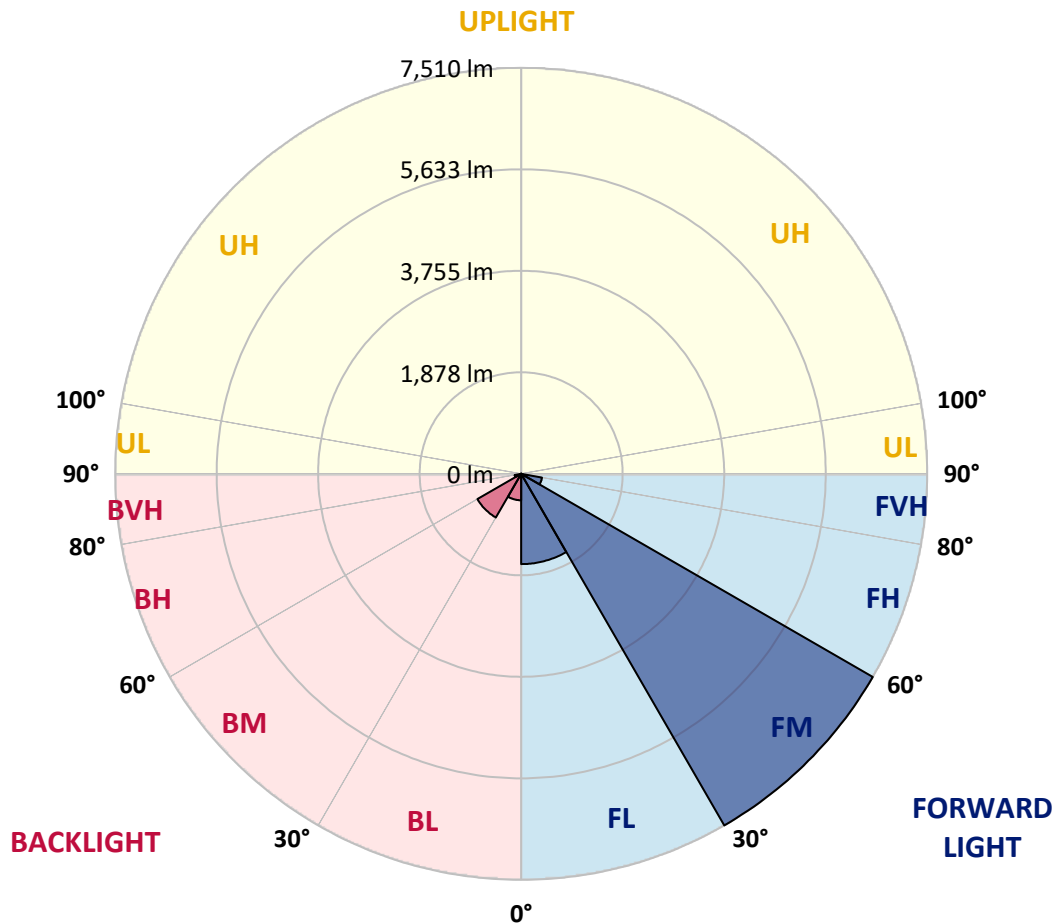
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1670.4 | 15.0      |                         |      |        |
| FM   | (30°-60°)   | 7510.4 | 67.4      |                         |      |        |
| FH   | (60°-80°)   | 391.7  | 3.5       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 7.4    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 489.3  | 4.4       | B1/500                  |      |        |
| BM   | (30°-60°)   | 934.2  | 8.4       | B1/1000                 |      |        |
| BH   | (60°-80°)   | 122.8  | 1.1       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 8.7    | 0.1       |                         |      | 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 I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 70°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0°    | 1153.4 | 1153.4 | 1153.4 | 1153.4 | 1153.4 | 1153.4 | 1153.4  | 1153.4  | 1153.4  | 1153.4  | 1153.4 |
| 2.5°  | 1510.4 | 1499.4 | 1475.6 | 1431.6 | 1413.3 | 1369.4 | 1343.8  | 1294.3  | 1263.2  | 1228.4  | 1190.0 |
| 5°    | 2127.3 | 2070.6 | 2035.8 | 1986.4 | 1841.7 | 1752.0 | 1603.7  | 1477.4  | 1418.8  | 1354.7  | 1266.9 |
| 7.5°  | 2764.4 | 2727.8 | 2680.2 | 2574.0 | 2475.2 | 2288.4 | 2034.0  | 1755.7  | 1636.7  | 1526.8  | 1352.9 |
| 10°   | 3291.7 | 3189.2 | 3183.7 | 3104.9 | 2996.9 | 2773.6 | 2467.8  | 2121.8  | 1909.5  | 1748.4  | 1475.6 |
| 12.5° | 3659.7 | 3566.3 | 3608.4 | 3599.2 | 3498.5 | 3293.5 | 2940.2  | 2482.5  | 2261.0  | 2010.2  | 1601.9 |
| 15°   | 3994.7 | 3956.2 | 3943.4 | 3932.4 | 3892.2 | 3740.2 | 3423.5  | 2921.9  | 2601.5  | 2299.4  | 1744.7 |
| 17.5° | 4322.4 | 4223.5 | 4271.1 | 4280.3 | 4276.6 | 4139.3 | 3842.7  | 3339.3  | 2962.1  | 2605.1  | 1894.8 |
| 20°   | 4613.5 | 4622.6 | 4558.5 | 4545.7 | 4534.7 | 4529.3 | 4240.0  | 3753.0  | 3405.2  | 2925.5  | 2090.7 |
| 22.5° | 4986.9 | 4922.9 | 4979.6 | 4943.0 | 4871.6 | 4827.7 | 4606.1  | 4119.2  | 3789.6  | 3311.8  | 2290.3 |
| 25°   | 5428.1 | 5479.4 | 5345.8 | 5331.1 | 5252.4 | 5100.4 | 4900.9  | 4529.3  | 4159.4  | 3670.6  | 2506.3 |
| 27.5° | 5971.9 | 5882.2 | 5847.4 | 5766.8 | 5624.0 | 5560.0 | 5325.6  | 4952.2  | 4606.1  | 4047.8  | 2715.0 |
| 30°   | 6438.7 | 6414.9 | 6241.0 | 6145.8 | 6021.3 | 6019.5 | 5691.8  | 5525.2  | 5188.3  | 4639.1  | 3002.4 |
| 32.5° | 6819.5 | 6715.2 | 6651.1 | 6585.2 | 6484.5 | 6511.9 | 6235.5  | 6147.6  | 5808.9  | 5188.3  | 3341.1 |
| 35°   | 7074.0 | 6998.9 | 6960.5 | 6859.8 | 6830.5 | 6953.2 | 6837.8  | 6801.2  | 6522.9  | 5960.9  | 3738.4 |
| 37.5° | 7154.5 | 7178.3 | 7171.0 | 7044.7 | 7106.9 | 7438.3 | 7586.6  | 7491.4  | 7344.9  | 6775.6  | 4168.6 |
| 40°   | 7225.9 | 7242.4 | 7205.8 | 7354.1 | 7531.7 | 7908.8 | 8445.2  | 8287.8  | 8232.8  | 7601.2  | 4767.2 |
| 42.5° | 7266.2 | 7253.4 | 7253.4 | 7509.7 | 7778.8 | 8536.7 | 9274.5  | 9170.2  | 9128.1  | 8480.0  | 5459.3 |
| 45°   | 7092.3 | 6967.8 | 7101.4 | 7449.3 | 7991.2 | 8846.1 | 9937.3  | 10081.9 | 10021.5 | 9525.3  | 6268.5 |
| 47.5° | 6442.4 | 6519.3 | 6594.3 | 7059.3 | 7733.0 | 8750.9 | 10343.7 | 10836.2 | 10947.8 | 10404.1 | 6799.4 |
| 50°   | 5459.3 | 5442.8 | 5598.4 | 6184.2 | 7002.6 | 8340.9 | 10265.0 | 11054.0 | 11257.2 | 10667.7 | 6911.0 |
| 52.5° | 3970.9 | 4091.7 | 4260.1 | 4842.3 | 5812.6 | 7279.0 | 9248.9  | 10492.0 | 10762.9 | 10343.7 | 6837.8 |
| 55°   | 2312.2 | 2178.6 | 2557.5 | 3050.0 | 3965.4 | 5490.4 | 7819.1  | 9300.2  | 9801.8  | 9754.2  | 6468.0 |
| 57.5° | 926.4  | 897.1  | 1027.0 | 1384.0 | 2068.7 | 3403.3 | 5686.3  | 7641.5  | 8445.2  | 8934.0  | 5684.5 |
| 60°   | 406.4  | 397.3  | 466.8  | 563.9  | 845.8  | 1568.9 | 3110.4  | 4752.6  | 5591.1  | 6242.8  | 3912.3 |
| 62.5° | 292.9  | 289.3  | 324.0  | 358.8  | 446.7  | 682.9  | 1307.1  | 1915.0  | 2387.3  | 2883.4  | 1752.0 |
| 65°   | 236.2  | 245.3  | 269.1  | 287.4  | 329.5  | 379.0  | 461.3   | 532.7   | 653.6   | 677.4   | 386.3  |
| 67.5° | 192.2  | 199.6  | 221.5  | 241.7  | 249.0  | 205.0  | 212.4   | 186.7   | 186.7   | 166.6   | 133.6  |
| 70°   | 141.0  | 142.8  | 168.4  | 192.2  | 153.8  | 82.4   | 144.6   | 144.6   | 130.0   | 124.5   | 113.5  |
| 72.5° | 104.4  | 106.2  | 126.3  | 119.0  | 60.4   | 51.3   | 106.2   | 117.2   | 106.2   | 100.7   | 91.5   |
| 75°   | 76.9   | 78.7   | 65.9   | 27.5   | 25.6   | 33.0   | 62.2    | 80.6    | 76.9    | 75.1    | 69.6   |
| 77.5° | 14.6   | 11.0   | 9.2    | 12.8   | 18.3   | 27.5   | 40.3    | 49.4    | 51.3    | 54.9    | 51.3   |
| 80°   | 1.8    | 1.8    | 5.5    | 11.0   | 20.1   | 29.3   | 42.1    | 47.6    | 49.4    | 51.3    | 47.6   |
| 82.5° | 0.0    | 1.8    | 5.5    | 11.0   | 20.1   | 27.5   | 36.6    | 42.1    | 45.8    | 47.6    | 45.8   |
| 85°   | 0.0    | 1.8    | 3.7    | 9.2    | 16.5   | 20.1   | 18.3    | 12.8    | 11.0    | 12.8    | 9.2    |
| 87.5° | 0.0    | 0.0    | 1.8    | 1.8    | 3.7    | 3.7    | 3.7     | 3.7     | 3.7     | 3.7     | 3.7    |
| 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°    | 1153.4 | 1153.4 | 1153.4 | 1153.4 | 1153.4 | 1153.4 | 1153.4 | 1153.4 | 1153.4 | 1153.4 | 1153.4 |
| 2.5°  | 1168.0 | 1160.7 | 1135.1 | 1107.6 | 1083.8 | 1094.8 | 1083.8 | 1074.6 | 1078.3 | 1074.6 | 1071.0 |
| 5°    | 1232.1 | 1199.1 | 1144.2 | 1120.4 | 1100.3 | 1098.4 | 1093.0 | 1091.1 | 1093.0 | 1093.0 | 1076.5 |
| 7.5°  | 1292.5 | 1239.4 | 1180.8 | 1155.2 | 1131.4 | 1133.2 | 1120.4 | 1120.4 | 1118.6 | 1109.4 | 1105.8 |
| 10°   | 1384.0 | 1312.6 | 1237.6 | 1191.8 | 1162.5 | 1157.0 | 1144.2 | 1131.4 | 1131.4 | 1131.4 | 1113.1 |
| 12.5° | 1484.7 | 1395.0 | 1292.5 | 1239.4 | 1204.6 | 1177.2 | 1157.0 | 1153.4 | 1133.2 | 1129.6 | 1120.4 |
| 15°   | 1572.6 | 1459.1 | 1329.1 | 1255.9 | 1212.0 | 1175.3 | 1144.2 | 1124.1 | 1114.9 | 1109.4 | 1102.1 |
| 17.5° | 1658.7 | 1514.0 | 1349.3 | 1255.9 | 1208.3 | 1166.2 | 1133.2 | 1114.9 | 1093.0 | 1096.6 | 1082.0 |
| 20°   | 1774.0 | 1572.6 | 1354.7 | 1232.1 | 1173.5 | 1133.2 | 1089.3 | 1080.1 | 1067.3 | 1056.3 | 1060.0 |
| 22.5° | 1885.7 | 1614.7 | 1338.3 | 1202.8 | 1118.6 | 1071.0 | 1049.0 | 1038.0 | 1032.5 | 1023.4 | 1010.6 |
| 25°   | 1986.4 | 1660.5 | 1312.6 | 1149.7 | 1060.0 | 1025.2 | 1005.1 | 1003.2 | 990.4  | 990.4  | 966.6  |
| 27.5° | 2088.9 | 1677.0 | 1268.7 | 1087.5 | 1008.7 | 988.6  | 979.4  | 975.8  | 970.3  | 957.5  | 941.0  |
| 30°   | 2206.0 | 1682.5 | 1204.6 | 1023.4 | 963.0  | 941.0  | 953.8  | 963.0  | 939.2  | 915.4  | 922.7  |
| 32.5° | 2303.1 | 1669.6 | 1127.7 | 963.0  | 930.0  | 919.0  | 944.7  | 953.8  | 926.4  | 900.7  | 887.9  |
| 35°   | 2420.2 | 1638.5 | 1052.7 | 915.4  | 897.1  | 919.0  | 941.0  | 941.0  | 886.1  | 855.0  | 847.6  |
| 37.5° | 2597.8 | 1603.7 | 983.1  | 875.1  | 862.3  | 908.0  | 937.3  | 917.2  | 831.2  | 792.7  | 783.6  |
| 40°   | 2788.2 | 1581.8 | 915.4  | 834.8  | 844.0  | 889.7  | 906.2  | 844.0  | 756.1  | 732.3  | 725.0  |
| 42.5° | 3064.7 | 1537.8 | 855.0  | 800.0  | 827.5  | 864.1  | 864.1  | 752.4  | 719.5  | 706.7  | 704.8  |
| 45°   | 3408.8 | 1506.7 | 801.9  | 770.7  | 803.7  | 812.8  | 783.6  | 704.8  | 681.0  | 677.4  | 679.2  |
| 47.5° | 3577.3 | 1446.3 | 746.9  | 736.0  | 759.8  | 761.6  | 684.7  | 666.4  | 646.3  | 640.8  | 637.1  |
| 50°   | 3551.6 | 1338.3 | 675.5  | 690.2  | 723.1  | 704.8  | 624.3  | 627.9  | 609.6  | 607.8  | 598.7  |
| 52.5° | 3372.2 | 1168.0 | 604.1  | 638.9  | 675.5  | 622.5  | 574.9  | 571.2  | 571.2  | 547.4  | 538.2  |
| 55°   | 2989.6 | 941.0  | 518.1  | 562.0  | 606.0  | 523.6  | 510.8  | 507.1  | 498.0  | 476.0  | 470.5  |
| 57.5° | 2367.1 | 690.2  | 389.9  | 437.5  | 514.4  | 444.9  | 443.0  | 426.6  | 402.8  | 386.3  | 386.3  |
| 60°   | 1407.8 | 397.3  | 245.3  | 267.3  | 340.5  | 360.7  | 400.9  | 393.6  | 353.3  | 327.7  | 320.4  |
| 62.5° | 642.6  | 205.0  | 155.6  | 159.3  | 183.1  | 234.3  | 314.9  | 364.3  | 307.6  | 263.6  | 260.0  |
| 65°   | 216.0  | 152.0  | 128.2  | 122.7  | 126.3  | 141.0  | 188.6  | 258.1  | 245.3  | 203.2  | 195.9  |
| 67.5° | 131.8  | 135.5  | 120.8  | 111.7  | 111.7  | 109.8  | 108.0  | 117.2  | 144.6  | 141.0  | 142.8  |
| 70°   | 113.5  | 124.5  | 111.7  | 100.7  | 97.0   | 91.5   | 76.9   | 64.1   | 54.9   | 64.1   | 67.7   |
| 72.5° | 91.5   | 98.9   | 95.2   | 86.0   | 76.9   | 69.6   | 54.9   | 42.1   | 31.1   | 27.5   | 27.5   |
| 75°   | 67.7   | 73.2   | 76.9   | 65.9   | 58.6   | 49.4   | 40.3   | 27.5   | 16.5   | 11.0   | 11.0   |
| 77.5° | 49.4   | 54.9   | 56.8   | 51.3   | 43.9   | 34.8   | 25.6   | 18.3   | 9.2    | 3.7    | 3.7    |
| 80°   | 42.1   | 49.4   | 54.9   | 51.3   | 45.8   | 33.0   | 23.8   | 12.8   | 7.3    | 1.8    | 1.8    |
| 82.5° | 40.3   | 49.4   | 54.9   | 49.4   | 43.9   | 31.1   | 23.8   | 14.6   | 5.5    | 1.8    | 1.8    |
| 85°   | 9.2    | 12.8   | 16.5   | 20.1   | 23.8   | 23.8   | 18.3   | 11.0   | 5.5    | 1.8    | 1.8    |
| 87.5° | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 1.8    | 1.8    | 0.0    |
| 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)