

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: P649818

Luminaire Tested: **GLAN-SA3A-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649818  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3A-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6305.5 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

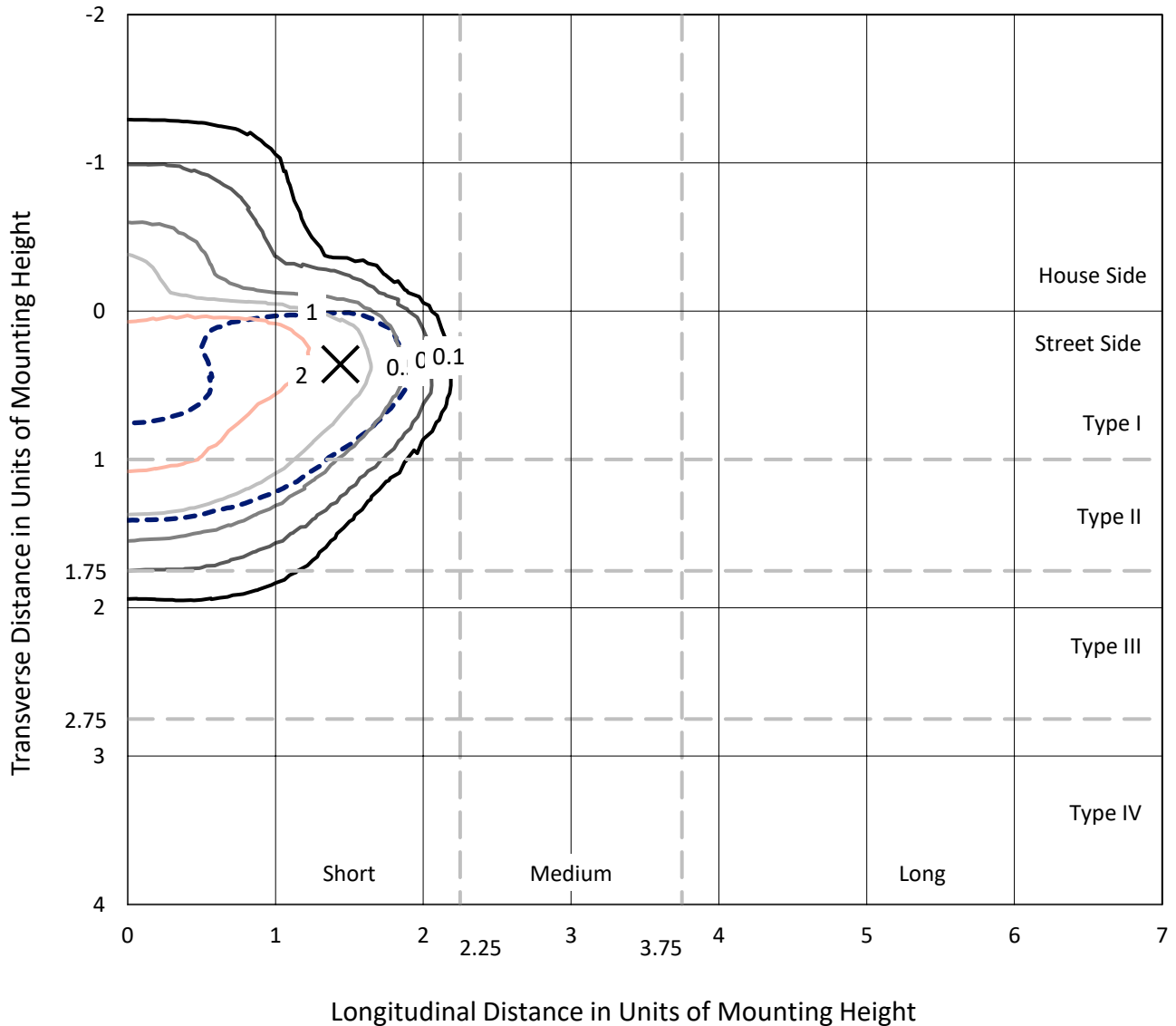
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

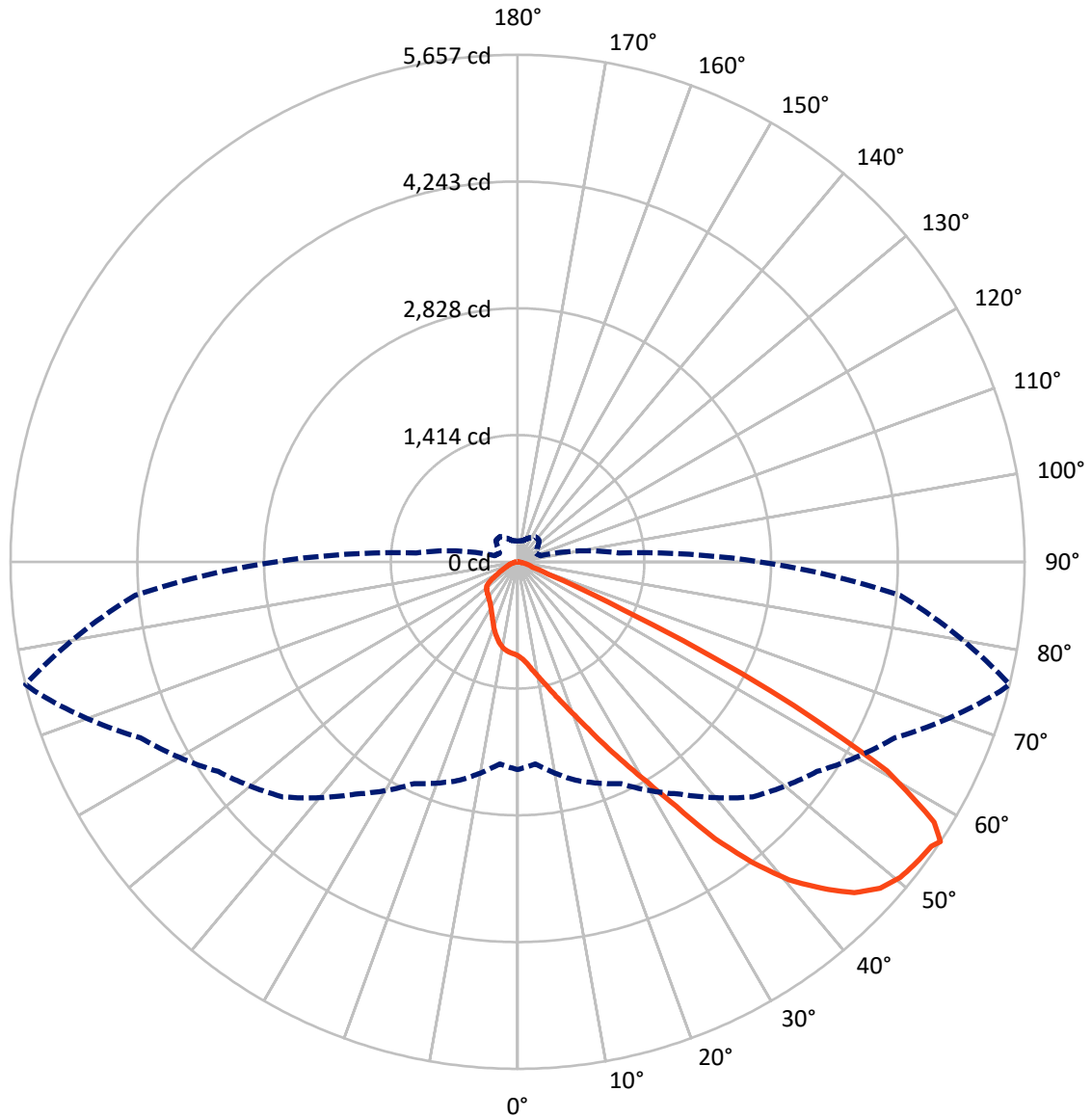
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 990.6    | 0.0    | 990.6  |
|                    | % Fixture | 15.7     | 0.0    | 15.7   |
| <b>Street Side</b> | Lumens    | 5314.9   | 0.0    | 5314.9 |
|                    | % Fixture | 84.3     | 0.0    | 84.3   |
| <b>Total</b>       | Lumens    | 6305.5   | 0.0    | 6305.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 105.7  | 1.7       |
| 10°-20°   | 339.7  | 5.4       |
| 20°-30°   | 615.9  | 9.8       |
| 30°-40°   | 1062.2 | 16.8      |
| 40°-50°   | 1725.5 | 27.4      |
| 50°-60°   | 1818.8 | 28.8      |
| 60°-70°   | 555.7  | 8.8       |
| 70°-80°   | 71.2   | 1.1       |
| 80°-90°   | 10.8   | 0.2       |
| 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°    | 6305.5 | 100.0     |
| 0°-180°   | 6305.5 | 100.0     |

**Coefficient of Utilization**

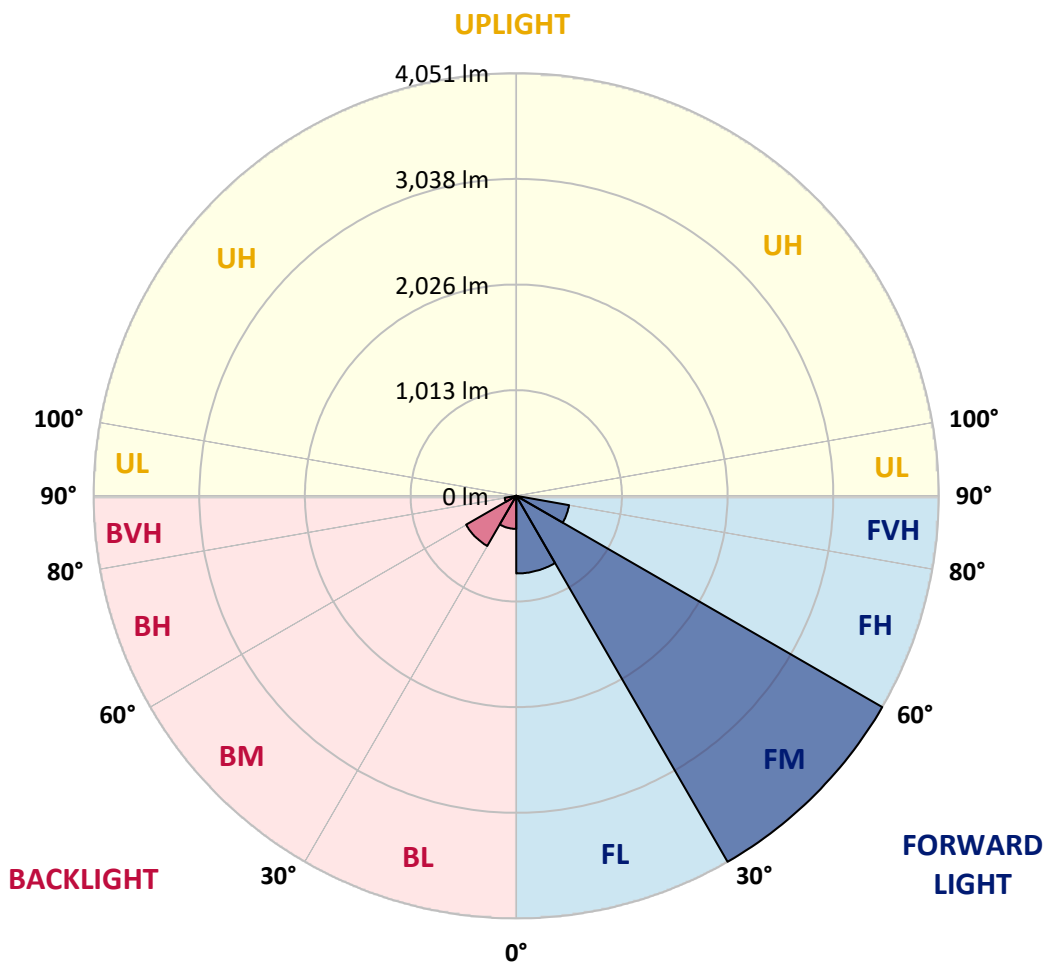


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 744.4  | 11.8      |                         |      |        |
| FM (30°-60°)   | 4051.3 | 64.2      |                         |      |        |
| FH (60°-80°)   | 513.9  | 8.2       |                         |      | G0/660 |
| FVH (80°-90°)  | 5.3    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 316.9  | 5.0       | B1/500                  |      |        |
| BM (30°-60°)   | 555.2  | 8.8       | B1/1000                 |      |        |
| BH (60°-80°)   | 113.0  | 1.8       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 5.5    | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 |
| 2.5°  | 1208.8 | 1180.9 | 1182.1 | 1179.7 | 1176.2 | 1163.5 | 1125.1 | 1119.3 | 1093.7 | 1086.7 | 1063.5 |
| 5°    | 1354.1 | 1329.7 | 1343.6 | 1322.7 | 1302.9 | 1291.3 | 1228.5 | 1199.5 | 1158.8 | 1143.7 | 1111.2 |
| 7.5°  | 1444.7 | 1433.1 | 1428.5 | 1429.6 | 1411.0 | 1382.0 | 1354.1 | 1290.1 | 1235.5 | 1223.9 | 1155.3 |
| 10°   | 1488.9 | 1481.9 | 1488.9 | 1485.4 | 1493.6 | 1497.0 | 1448.2 | 1409.9 | 1329.7 | 1309.9 | 1203.0 |
| 12.5° | 1499.4 | 1513.3 | 1519.1 | 1534.2 | 1554.0 | 1587.7 | 1584.2 | 1531.9 | 1425.0 | 1412.2 | 1276.2 |
| 15°   | 1525.0 | 1536.6 | 1530.8 | 1555.2 | 1592.4 | 1649.3 | 1679.5 | 1671.4 | 1556.3 | 1533.1 | 1361.1 |
| 17.5° | 1548.2 | 1527.2 | 1547.1 | 1595.8 | 1633.0 | 1720.2 | 1793.5 | 1827.1 | 1699.3 | 1672.6 | 1438.9 |
| 20°   | 1579.5 | 1573.8 | 1570.3 | 1594.7 | 1660.9 | 1777.2 | 1922.4 | 1984.0 | 1859.7 | 1831.8 | 1550.5 |
| 22.5° | 1674.9 | 1676.0 | 1673.7 | 1637.7 | 1685.3 | 1816.7 | 2035.2 | 2187.5 | 2051.5 | 2028.2 | 1677.2 |
| 25°   | 1800.4 | 1785.3 | 1773.7 | 1744.6 | 1738.8 | 1852.7 | 2149.1 | 2436.2 | 2281.6 | 2265.3 | 1814.4 |
| 27.5° | 1932.9 | 1932.9 | 1898.1 | 1871.3 | 1834.1 | 1942.2 | 2253.7 | 2677.9 | 2559.4 | 2537.3 | 1934.1 |
| 30°   | 2077.1 | 2085.2 | 2080.5 | 2023.6 | 2000.3 | 2039.9 | 2360.7 | 2987.1 | 2877.8 | 2850.0 | 2131.6 |
| 32.5° | 2289.7 | 2272.3 | 2292.1 | 2244.4 | 2175.8 | 2210.7 | 2529.2 | 3263.8 | 3291.7 | 3252.1 | 2390.9 |
| 35°   | 2571.0 | 2560.6 | 2547.8 | 2469.9 | 2388.5 | 2416.4 | 2767.4 | 3604.3 | 3811.2 | 3791.4 | 2652.4 |
| 37.5° | 2823.3 | 2817.4 | 2807.0 | 2753.5 | 2659.4 | 2693.1 | 3038.3 | 3958.8 | 4317.9 | 4252.9 | 3022.0 |
| 40°   | 3088.2 | 3119.6 | 3085.9 | 3038.3 | 2952.2 | 3026.6 | 3356.7 | 4169.2 | 4744.5 | 4665.5 | 3304.4 |
| 42.5° | 3447.4 | 3423.0 | 3438.1 | 3350.9 | 3304.4 | 3385.8 | 3676.3 | 4379.6 | 5075.8 | 4981.6 | 3604.3 |
| 45°   | 3829.8 | 3831.0 | 3790.3 | 3762.4 | 3641.5 | 3729.8 | 3872.8 | 4495.8 | 5339.6 | 5266.4 | 3831.0 |
| 47.5° | 4075.0 | 4073.9 | 4118.0 | 4162.2 | 4037.9 | 3950.7 | 4006.5 | 4606.2 | 5475.6 | 5441.9 | 3913.5 |
| 50°   | 4036.7 | 4048.3 | 4105.3 | 4270.3 | 4335.4 | 4218.0 | 4132.0 | 4573.7 | 5537.2 | 5533.7 | 3984.4 |
| 52.5° | 3511.3 | 3549.7 | 3645.0 | 3883.3 | 4211.1 | 4356.3 | 4263.4 | 4634.1 | 5567.4 | 5573.2 | 4090.2 |
| 55°   | 2673.3 | 2694.2 | 2875.6 | 3165.0 | 3527.6 | 4025.1 | 4211.1 | 4681.8 | 5590.7 | 5601.1 | 4218.0 |
| 56°   | 2318.8 | 2263.0 | 2524.5 | 2730.2 | 3163.8 | 3707.7 | 4078.5 | 4644.6 | 5576.8 | 5656.9 | 4281.9 |
| 57.5° | 1750.4 | 1713.2 | 1924.8 | 2181.7 | 2598.9 | 3173.1 | 3667.1 | 4469.1 | 5482.6 | 5481.4 | 4190.1 |
| 60°   | 1064.6 | 1027.5 | 1190.2 | 1341.3 | 1574.9 | 1953.8 | 2478.0 | 3559.0 | 4635.3 | 4732.9 | 3392.7 |
| 62.5° | 633.4  | 656.7  | 817.1  | 908.9  | 984.5  | 1024.0 | 1282.0 | 2115.4 | 3092.8 | 3162.6 | 2104.9 |
| 65°   | 421.9  | 430.0  | 550.9  | 702.0  | 735.7  | 585.8  | 521.9  | 856.6  | 1341.3 | 1298.3 | 868.3  |
| 67.5° | 260.3  | 279.0  | 369.6  | 527.7  | 584.7  | 427.8  | 247.6  | 319.6  | 369.6  | 369.6  | 251.0  |
| 70°   | 158.1  | 167.4  | 246.4  | 359.2  | 401.0  | 275.5  | 180.2  | 180.2  | 177.8  | 174.4  | 149.9  |
| 72.5° | 75.6   | 81.4   | 125.5  | 184.8  | 188.3  | 145.3  | 139.5  | 152.3  | 148.8  | 147.6  | 124.3  |
| 75°   | 32.6   | 34.8   | 44.2   | 58.1   | 66.2   | 61.6   | 84.9   | 109.2  | 112.8  | 109.2  | 89.5   |
| 77.5° | 10.5   | 11.6   | 16.3   | 20.9   | 22.1   | 26.7   | 36.0   | 45.3   | 52.3   | 48.8   | 44.2   |
| 80°   | 1.2    | 2.3    | 4.6    | 10.5   | 16.3   | 20.9   | 26.7   | 30.2   | 33.7   | 33.7   | 31.4   |
| 82.5° | 1.2    | 1.2    | 4.6    | 9.3    | 15.1   | 19.7   | 25.6   | 29.0   | 33.7   | 34.8   | 32.6   |
| 85°   | 0.0    | 1.2    | 3.5    | 8.1    | 12.8   | 12.8   | 11.6   | 11.6   | 8.1    | 8.1    | 8.1    |
| 87.5° | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    |
| 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°    | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 | 1049.5 |
| 2.5°  | 1058.9 | 1056.5 | 1025.2 | 1005.4 | 995.0  | 974.0  | 961.2  | 951.9  | 944.9  | 936.8  | 938.0  |
| 5°    | 1072.8 | 1064.6 | 1012.3 | 976.3  | 933.3  | 910.1  | 890.3  | 874.1  | 863.6  | 861.3  | 856.6  |
| 7.5°  | 1112.3 | 1069.3 | 990.3  | 925.2  | 870.5  | 847.3  | 829.9  | 819.4  | 824.1  | 813.6  | 821.8  |
| 10°   | 1142.6 | 1078.6 | 963.6  | 869.4  | 814.8  | 797.3  | 788.0  | 796.2  | 807.8  | 803.1  | 797.3  |
| 12.5° | 1179.7 | 1087.9 | 920.6  | 816.0  | 764.8  | 752.0  | 768.3  | 783.4  | 806.6  | 816.0  | 804.3  |
| 15°   | 1221.6 | 1098.4 | 865.9  | 754.3  | 721.8  | 732.3  | 760.1  | 786.9  | 810.1  | 821.8  | 828.7  |
| 17.5° | 1272.7 | 1094.9 | 812.4  | 705.5  | 681.1  | 711.4  | 745.0  | 769.5  | 804.3  | 821.8  | 817.1  |
| 20°   | 1320.4 | 1083.3 | 753.2  | 656.7  | 657.9  | 685.8  | 713.6  | 753.2  | 771.8  | 795.0  | 786.9  |
| 22.5° | 1365.7 | 1062.4 | 691.5  | 623.0  | 623.0  | 666.0  | 680.0  | 705.5  | 721.8  | 733.4  | 732.3  |
| 25°   | 1429.6 | 1022.8 | 640.4  | 590.5  | 604.4  | 632.3  | 643.9  | 652.1  | 645.1  | 654.4  | 655.5  |
| 27.5° | 1474.9 | 982.1  | 598.6  | 561.4  | 586.9  | 607.9  | 604.4  | 599.8  | 583.5  | 570.7  | 578.8  |
| 30°   | 1523.8 | 934.5  | 562.6  | 541.6  | 555.6  | 574.2  | 560.2  | 546.3  | 520.7  | 499.8  | 501.0  |
| 32.5° | 1593.5 | 912.4  | 531.2  | 518.4  | 537.0  | 539.3  | 524.2  | 503.3  | 477.7  | 458.0  | 456.8  |
| 35°   | 1723.7 | 898.5  | 504.4  | 503.3  | 506.8  | 507.9  | 492.8  | 467.2  | 456.8  | 440.5  | 446.3  |
| 37.5° | 1853.9 | 891.5  | 485.9  | 481.2  | 480.1  | 481.2  | 463.8  | 439.3  | 459.1  | 458.0  | 460.2  |
| 40°   | 2020.1 | 922.8  | 459.1  | 453.3  | 454.5  | 454.5  | 432.4  | 425.4  | 460.2  | 463.8  | 464.9  |
| 42.5° | 2188.6 | 962.4  | 441.7  | 423.1  | 427.8  | 427.8  | 416.1  | 407.9  | 432.4  | 409.1  | 405.7  |
| 45°   | 2335.1 | 1020.5 | 423.1  | 392.8  | 404.5  | 410.3  | 406.8  | 392.8  | 377.7  | 338.3  | 338.3  |
| 47.5° | 2382.7 | 1071.6 | 401.0  | 363.8  | 373.1  | 398.7  | 388.2  | 359.2  | 332.4  | 299.9  | 297.5  |
| 50°   | 2466.4 | 1127.4 | 383.6  | 330.1  | 349.8  | 381.2  | 370.8  | 341.7  | 311.5  | 288.2  | 289.4  |
| 52.5° | 2552.4 | 1191.3 | 351.0  | 290.6  | 315.0  | 367.3  | 367.3  | 334.7  | 288.2  | 272.0  | 269.7  |
| 55°   | 2681.5 | 1189.1 | 292.9  | 238.3  | 281.3  | 346.4  | 352.2  | 299.9  | 258.0  | 245.2  | 245.2  |
| 56°   | 2700.0 | 1135.6 | 263.9  | 223.2  | 266.1  | 340.5  | 341.7  | 290.6  | 246.4  | 232.5  | 232.5  |
| 57.5° | 2560.6 | 1025.2 | 231.3  | 204.6  | 247.6  | 330.1  | 331.3  | 282.4  | 237.1  | 217.4  | 215.0  |
| 60°   | 1970.1 | 693.9  | 192.9  | 182.5  | 224.3  | 297.5  | 303.3  | 256.9  | 208.0  | 192.9  | 191.8  |
| 62.5° | 1112.3 | 384.7  | 169.7  | 165.1  | 192.9  | 253.4  | 270.8  | 224.3  | 176.6  | 168.5  | 170.9  |
| 65°   | 507.9  | 211.6  | 143.0  | 133.7  | 155.7  | 195.3  | 218.5  | 184.8  | 145.3  | 136.0  | 136.0  |
| 67.5° | 186.0  | 144.2  | 122.1  | 105.8  | 109.2  | 126.7  | 141.8  | 119.7  | 96.5   | 82.5   | 86.0   |
| 70°   | 132.5  | 120.9  | 107.0  | 91.8   | 84.9   | 82.5   | 81.4   | 67.4   | 47.7   | 37.2   | 39.5   |
| 72.5° | 107.0  | 100.0  | 89.5   | 77.9   | 66.2   | 55.8   | 47.7   | 34.8   | 22.1   | 15.1   | 13.9   |
| 75°   | 76.7   | 73.2   | 65.1   | 55.8   | 46.5   | 39.5   | 32.6   | 22.1   | 11.6   | 5.8    | 5.8    |
| 77.5° | 39.5   | 39.5   | 38.4   | 34.8   | 29.0   | 23.3   | 18.6   | 12.8   | 7.0    | 2.3    | 2.3    |
| 80°   | 30.2   | 32.6   | 33.7   | 30.2   | 26.7   | 20.9   | 15.1   | 9.3    | 4.6    | 1.2    | 1.2    |
| 82.5° | 29.0   | 33.7   | 36.0   | 31.4   | 26.7   | 19.7   | 15.1   | 9.3    | 4.6    | 1.2    | 1.2    |
| 85°   | 7.0    | 7.0    | 10.5   | 11.6   | 15.1   | 16.3   | 12.8   | 8.1    | 3.5    | 1.2    | 1.2    |
| 87.5° | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 1.2    | 1.2    | 1.2    | 1.2    | 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)