

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: P653655

Luminaire Tested: **GLAN-SA1A-840-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653655  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1A-840-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3219.4 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

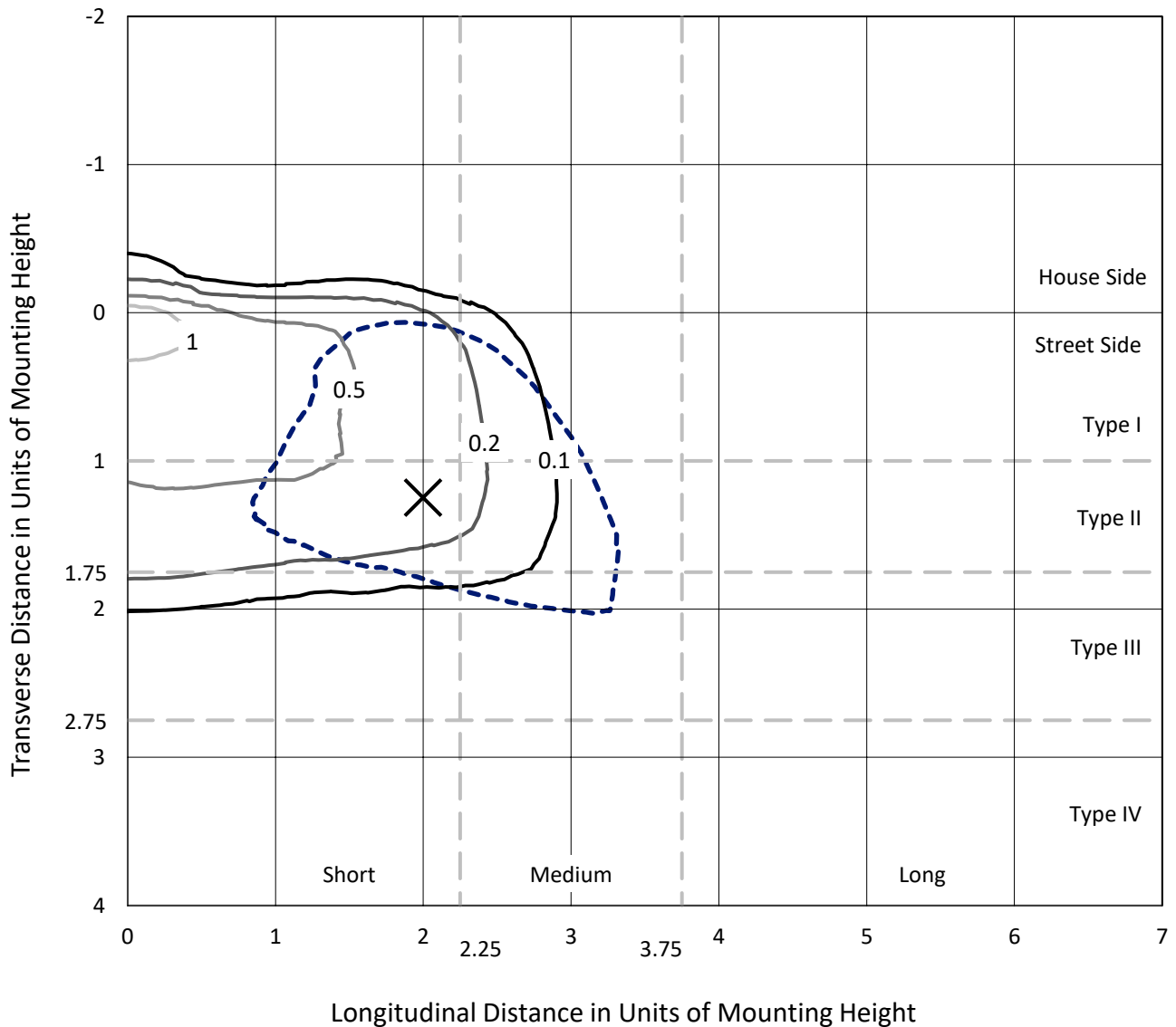
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

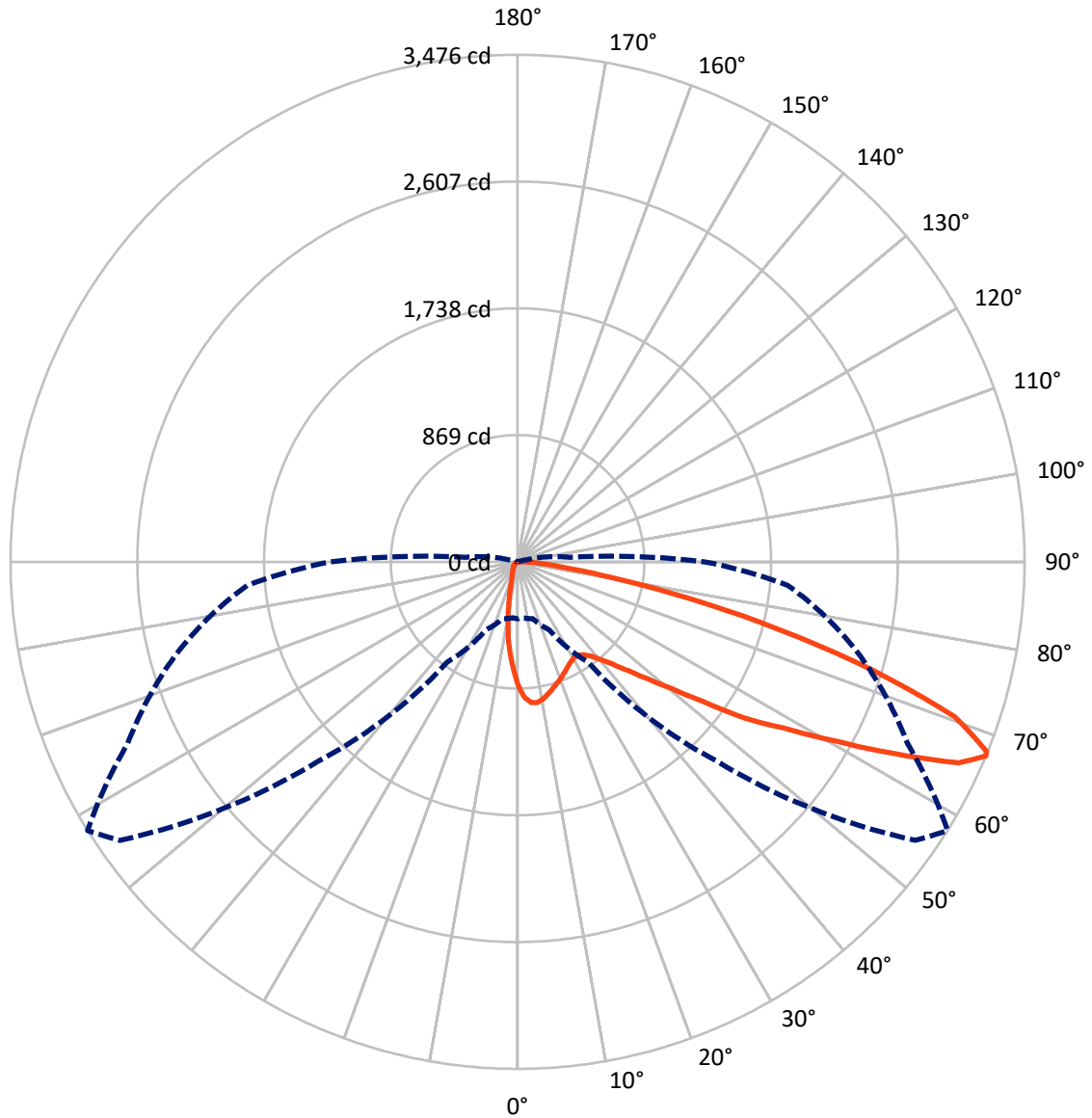
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 232.3    | 0.0    | 232.3  |
|                    | % Fixture | 7.2      | 0.0    | 7.2    |
| <b>Street Side</b> | Lumens    | 2987.0   | 0.0    | 2987.0 |
|                    | % Fixture | 92.8     | 0.0    | 92.8   |
| <b>Total</b>       | Lumens    | 3219.4   | 0.0    | 3219.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.3   | 2.2       |
| 10°-20°   | 149.6  | 4.6       |
| 20°-30°   | 202.7  | 6.3       |
| 30°-40°   | 281.1  | 8.7       |
| 40°-50°   | 448.3  | 13.9      |
| 50°-60°   | 775.0  | 24.1      |
| 60°-70°   | 885.3  | 27.5      |
| 70°-80°   | 369.1  | 11.5      |
| 80°-90°   | 39.1   | 1.2       |
| 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°    | 3219.4 | 100.0     |
| 0°-180°   | 3219.4 | 100.0     |

**Coefficient of Utilization**

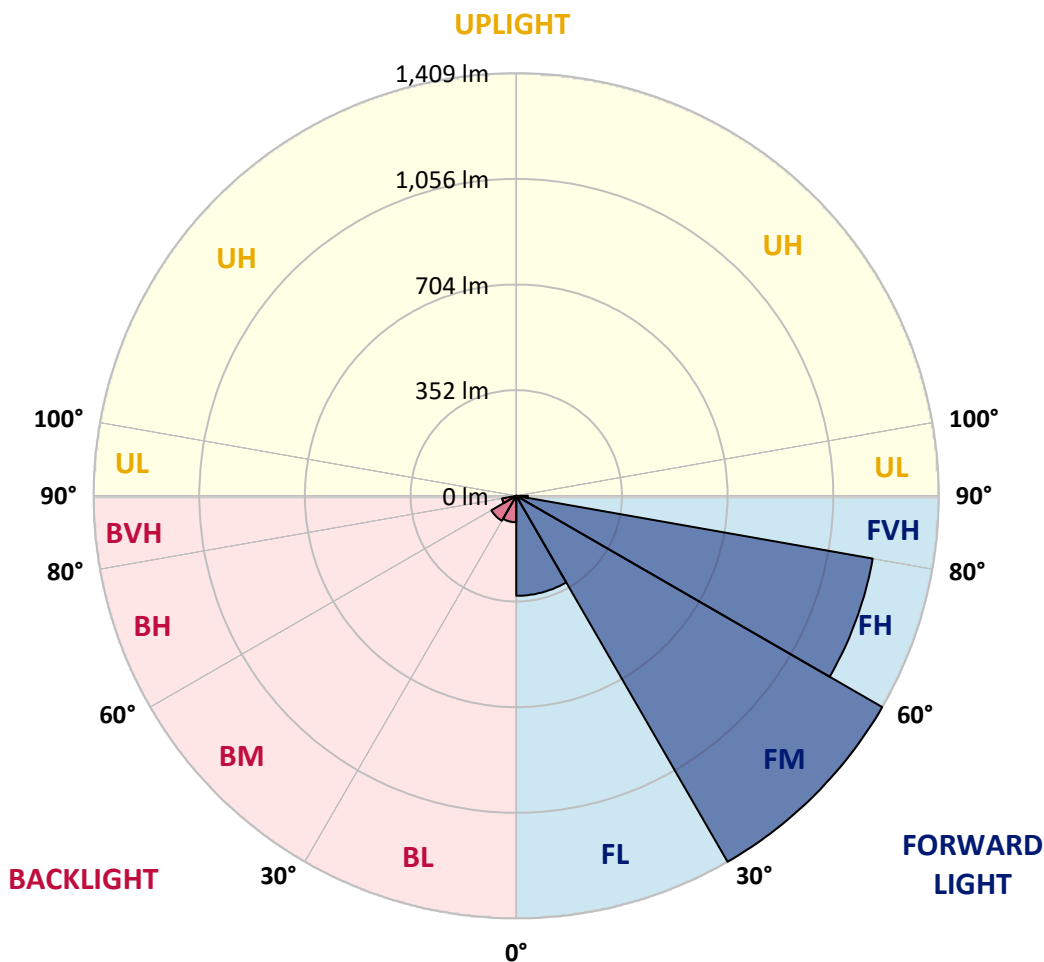


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 333.3  | 10.4      |                         |      |         |
| FM (30°-60°)   | 1408.6 | 43.8      |                         |      |         |
| FH (60°-80°)   | 1206.3 | 37.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 38.9   | 1.2       |                         |      | G1/100  |
| BL (0°-30°)    | 88.2   | 2.7       | B0/110                  |      |         |
| BM (30°-60°)   | 95.8   | 3.0       | B0/220                  |      |         |
| BH (60°-80°)   | 48.0   | 1.5       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.3    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 853.4  | 853.4  | 853.4  | 853.4  | 853.4  | 853.4  | 853.4  | 853.4  | 853.4  | 853.4  | 853.4  |
| 2.5°  | 990.4  | 992.0  | 986.4  | 981.9  | 970.3  | 957.7  | 941.2  | 932.3  | 917.3  | 891.3  | 862.4  |
| 5°    | 1013.7 | 1015.6 | 1014.8 | 1013.7 | 1009.2 | 997.1  | 976.1  | 968.3  | 946.1  | 903.7  | 851.7  |
| 7.5°  | 962.0  | 969.2  | 970.0  | 978.4  | 986.4  | 987.4  | 979.5  | 973.7  | 953.3  | 903.6  | 832.6  |
| 10°   | 893.6  | 898.4  | 905.3  | 914.9  | 934.1  | 950.0  | 957.7  | 956.9  | 945.0  | 896.8  | 810.2  |
| 12.5° | 824.6  | 827.2  | 837.7  | 854.3  | 877.8  | 904.8  | 925.5  | 929.6  | 929.8  | 888.9  | 791.5  |
| 15°   | 765.2  | 764.1  | 772.3  | 791.5  | 824.3  | 858.4  | 895.3  | 901.8  | 912.1  | 881.2  | 774.1  |
| 17.5° | 714.4  | 720.1  | 721.3  | 742.4  | 772.7  | 816.9  | 864.0  | 875.4  | 896.0  | 874.5  | 759.6  |
| 20°   | 683.1  | 686.1  | 688.9  | 700.6  | 728.0  | 774.5  | 834.5  | 850.2  | 880.9  | 868.5  | 743.5  |
| 22.5° | 673.8  | 675.7  | 673.4  | 677.0  | 696.3  | 737.6  | 802.4  | 823.3  | 866.6  | 862.9  | 730.3  |
| 25°   | 680.9  | 682.8  | 677.3  | 672.9  | 679.6  | 707.8  | 771.4  | 796.8  | 855.0  | 861.8  | 720.5  |
| 27.5° | 698.1  | 701.7  | 694.0  | 686.3  | 682.4  | 691.6  | 747.1  | 776.6  | 847.0  | 867.0  | 715.9  |
| 30°   | 725.0  | 727.1  | 721.3  | 711.8  | 703.1  | 693.8  | 734.4  | 762.6  | 844.8  | 879.0  | 715.5  |
| 32.5° | 754.2  | 758.8  | 755.6  | 749.3  | 737.9  | 715.9  | 738.1  | 763.0  | 850.0  | 896.4  | 720.9  |
| 35°   | 790.4  | 795.6  | 798.5  | 797.3  | 782.6  | 755.3  | 761.4  | 782.5  | 863.7  | 928.5  | 735.5  |
| 37.5° | 825.9  | 830.4  | 847.4  | 853.2  | 840.3  | 814.5  | 806.5  | 820.5  | 894.1  | 970.4  | 762.0  |
| 40°   | 866.6  | 872.5  | 896.4  | 918.6  | 912.4  | 885.2  | 870.6  | 882.2  | 940.6  | 1033.7 | 812.2  |
| 42.5° | 905.5  | 916.3  | 952.6  | 991.7  | 997.6  | 967.2  | 957.6  | 961.4  | 1009.4 | 1124.7 | 882.0  |
| 45°   | 960.8  | 970.9  | 1017.8 | 1070.9 | 1098.3 | 1074.5 | 1064.7 | 1064.0 | 1103.8 | 1252.7 | 995.4  |
| 47.5° | 1040.6 | 1049.7 | 1104.9 | 1157.4 | 1206.0 | 1209.3 | 1190.5 | 1197.0 | 1222.6 | 1402.5 | 1134.3 |
| 50°   | 1138.5 | 1159.7 | 1196.2 | 1250.7 | 1315.7 | 1368.2 | 1374.0 | 1365.4 | 1387.4 | 1575.9 | 1301.3 |
| 52.5° | 1280.7 | 1288.8 | 1322.2 | 1367.1 | 1443.3 | 1532.4 | 1601.4 | 1589.6 | 1582.7 | 1741.0 | 1470.0 |
| 55°   | 1386.7 | 1397.7 | 1449.5 | 1511.3 | 1623.0 | 1740.4 | 1890.1 | 1894.2 | 1807.3 | 1899.8 | 1635.0 |
| 57.5° | 1354.7 | 1371.4 | 1450.0 | 1574.1 | 1819.6 | 2034.3 | 2145.7 | 2148.5 | 2015.1 | 2054.1 | 1821.3 |
| 60°   | 1190.1 | 1198.1 | 1310.5 | 1476.2 | 1836.3 | 2352.7 | 2508.2 | 2485.6 | 2226.6 | 2226.6 | 1985.9 |
| 62.5° | 843.9  | 856.4  | 947.6  | 1191.4 | 1658.5 | 2463.2 | 2942.3 | 2895.6 | 2517.9 | 2391.6 | 2084.0 |
| 65°   | 539.3  | 527.3  | 587.8  | 752.1  | 1235.5 | 2300.0 | 3320.4 | 3323.1 | 2792.0 | 2457.7 | 2030.4 |
| 67°   | 390.6  | 385.9  | 403.3  | 514.2  | 837.7  | 1933.4 | 3328.3 | 3475.6 | 2949.4 | 2415.9 | 1859.1 |
| 67.5° | 357.3  | 361.0  | 373.7  | 463.8  | 761.1  | 1759.4 | 3292.1 | 3466.6 | 2985.0 | 2390.7 | 1797.2 |
| 70°   | 270.9  | 264.6  | 278.4  | 328.1  | 456.3  | 1109.9 | 2832.0 | 3179.4 | 2940.8 | 2140.9 | 1436.0 |
| 72.5° | 199.2  | 198.6  | 217.7  | 268.3  | 351.3  | 591.1  | 2125.9 | 2549.3 | 2402.6 | 1630.3 | 904.2  |
| 75°   | 134.5  | 140.4  | 171.1  | 224.1  | 318.4  | 383.3  | 1449.3 | 1849.4 | 1667.9 | 925.7  | 369.6  |
| 77.5° | 76.6   | 77.0   | 110.2  | 180.1  | 285.9  | 308.5  | 858.8  | 1178.2 | 882.9  | 307.9  | 109.8  |
| 80°   | 33.1   | 36.3   | 54.7   | 130.8  | 237.1  | 273.2  | 492.4  | 647.6  | 357.1  | 65.2   | 35.5   |
| 82.5° | 12.3   | 14.4   | 24.1   | 80.5   | 173.0  | 225.1  | 297.5  | 309.2  | 121.1  | 23.0   | 22.1   |
| 85°   | 0.0    | 0.4    | 8.8    | 37.7   | 90.2   | 100.5  | 198.8  | 183.3  | 53.6   | 10.9   | 14.4   |
| 87.5° | 0.0    | 0.0    | 0.0    | 3.9    | 11.9   | 37.4   | 61.7   | 68.9   | 12.9   | 3.9    | 3.4    |
| 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°    | 853.4  | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 |
| 2.5°  | 847.0  | 833.0 | 797.9 | 762.9 | 736.8 | 715.1 | 682.4 | 664.6 | 655.1 | 641.1 | 641.9 |
| 5°    | 825.7  | 797.3 | 735.5 | 671.6 | 620.0 | 569.7 | 509.4 | 485.1 | 464.7 | 453.0 | 445.3 |
| 7.5°  | 794.1  | 752.1 | 660.7 | 575.5 | 496.1 | 408.1 | 342.0 | 298.0 | 268.3 | 257.3 | 246.7 |
| 10°   | 759.4  | 703.7 | 584.7 | 466.6 | 356.5 | 265.7 | 209.7 | 169.3 | 154.9 | 141.5 | 142.9 |
| 12.5° | 727.4  | 659.6 | 515.0 | 368.3 | 249.8 | 168.9 | 131.7 | 115.1 | 110.3 | 108.8 | 108.8 |
| 15°   | 701.1  | 617.5 | 440.2 | 276.9 | 171.2 | 121.4 | 105.4 | 100.9 | 99.2  | 98.7  | 98.7  |
| 17.5° | 673.1  | 577.4 | 372.6 | 204.6 | 124.6 | 101.5 | 96.1  | 93.2  | 92.5  | 92.1  | 92.1  |
| 20°   | 648.2  | 537.1 | 308.5 | 152.3 | 100.7 | 91.4  | 88.0  | 86.0  | 85.4  | 84.9  | 85.2  |
| 22.5° | 624.5  | 501.5 | 248.3 | 115.1 | 88.6  | 83.3  | 79.8  | 77.9  | 76.6  | 75.5  | 75.7  |
| 25°   | 603.4  | 467.0 | 199.7 | 94.2  | 79.8  | 75.1  | 71.7  | 68.9  | 66.0  | 64.8  | 64.5  |
| 27.5° | 588.6  | 436.9 | 155.5 | 80.7  | 71.8  | 66.7  | 62.4  | 59.0  | 55.3  | 53.3  | 52.9  |
| 30°   | 576.3  | 406.4 | 123.0 | 71.2  | 63.9  | 59.0  | 53.6  | 48.6  | 44.7  | 42.8  | 42.0  |
| 32.5° | 568.3  | 377.4 | 97.1  | 63.5  | 57.2  | 51.2  | 45.2  | 40.2  | 35.9  | 34.0  | 33.6  |
| 35°   | 567.1  | 353.1 | 79.4  | 57.0  | 51.2  | 44.7  | 38.5  | 33.1  | 29.4  | 27.5  | 27.1  |
| 37.5° | 576.3  | 334.3 | 66.4  | 51.8  | 46.3  | 39.2  | 32.3  | 27.3  | 24.1  | 22.6  | 22.4  |
| 40°   | 601.1  | 322.4 | 57.7  | 47.5  | 41.7  | 34.0  | 27.5  | 23.2  | 20.0  | 18.5  | 18.5  |
| 42.5° | 648.2  | 322.9 | 51.8  | 43.5  | 37.3  | 29.0  | 23.5  | 19.3  | 16.6  | 15.3  | 14.9  |
| 45°   | 721.7  | 337.6 | 46.9  | 39.4  | 32.9  | 25.1  | 20.0  | 15.9  | 13.1  | 12.0  | 12.0  |
| 47.5° | 820.3  | 366.6 | 42.6  | 35.3  | 29.0  | 21.5  | 17.0  | 12.9  | 10.5  | 9.5   | 9.5   |
| 50°   | 949.2  | 413.3 | 38.9  | 31.9  | 25.8  | 18.5  | 13.8  | 10.5  | 8.2   | 7.3   | 7.1   |
| 52.5° | 1083.8 | 471.0 | 34.6  | 28.8  | 22.1  | 15.7  | 11.2  | 8.2   | 6.2   | 5.6   | 5.4   |
| 55°   | 1232.5 | 527.3 | 30.5  | 25.8  | 18.1  | 13.1  | 8.8   | 6.5   | 4.5   | 3.9   | 3.9   |
| 57.5° | 1382.4 | 582.6 | 25.6  | 21.5  | 14.2  | 9.7   | 6.9   | 4.7   | 3.0   | 2.4   | 2.4   |
| 60°   | 1509.3 | 600.4 | 21.7  | 17.4  | 10.8  | 6.9   | 5.0   | 3.0   | 1.7   | 1.1   | 1.1   |
| 62.5° | 1526.8 | 540.2 | 18.2  | 13.4  | 7.7   | 4.7   | 2.6   | 1.7   | 0.7   | 0.4   | 0.4   |
| 65°   | 1432.1 | 438.8 | 15.3  | 10.1  | 5.1   | 2.4   | 1.1   | 0.7   | 0.3   | 0.0   | 0.0   |
| 67°   | 1283.3 | 355.8 | 12.4  | 7.6   | 3.6   | 1.5   | 0.7   | 0.3   | 0.0   | 0.0   | 0.0   |
| 67.5° | 1245.2 | 339.3 | 12.0  | 7.1   | 3.2   | 1.3   | 0.4   | 0.3   | 0.0   | 0.0   | 0.0   |
| 70°   | 977.2  | 254.1 | 8.6   | 4.3   | 1.9   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 607.3  | 143.7 | 6.2   | 2.6   | 1.3   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 229.5  | 50.4  | 4.3   | 1.7   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 71.4   | 19.2  | 2.6   | 1.3   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 24.1   | 7.3   | 1.7   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 14.9   | 3.0   | 1.1   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 9.3    | 1.3   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.7    | 0.4   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 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)