

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: P528007

Luminaire Tested: **GLAN-SA3A-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528007  
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-SA3A-740-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 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: 9029 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

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

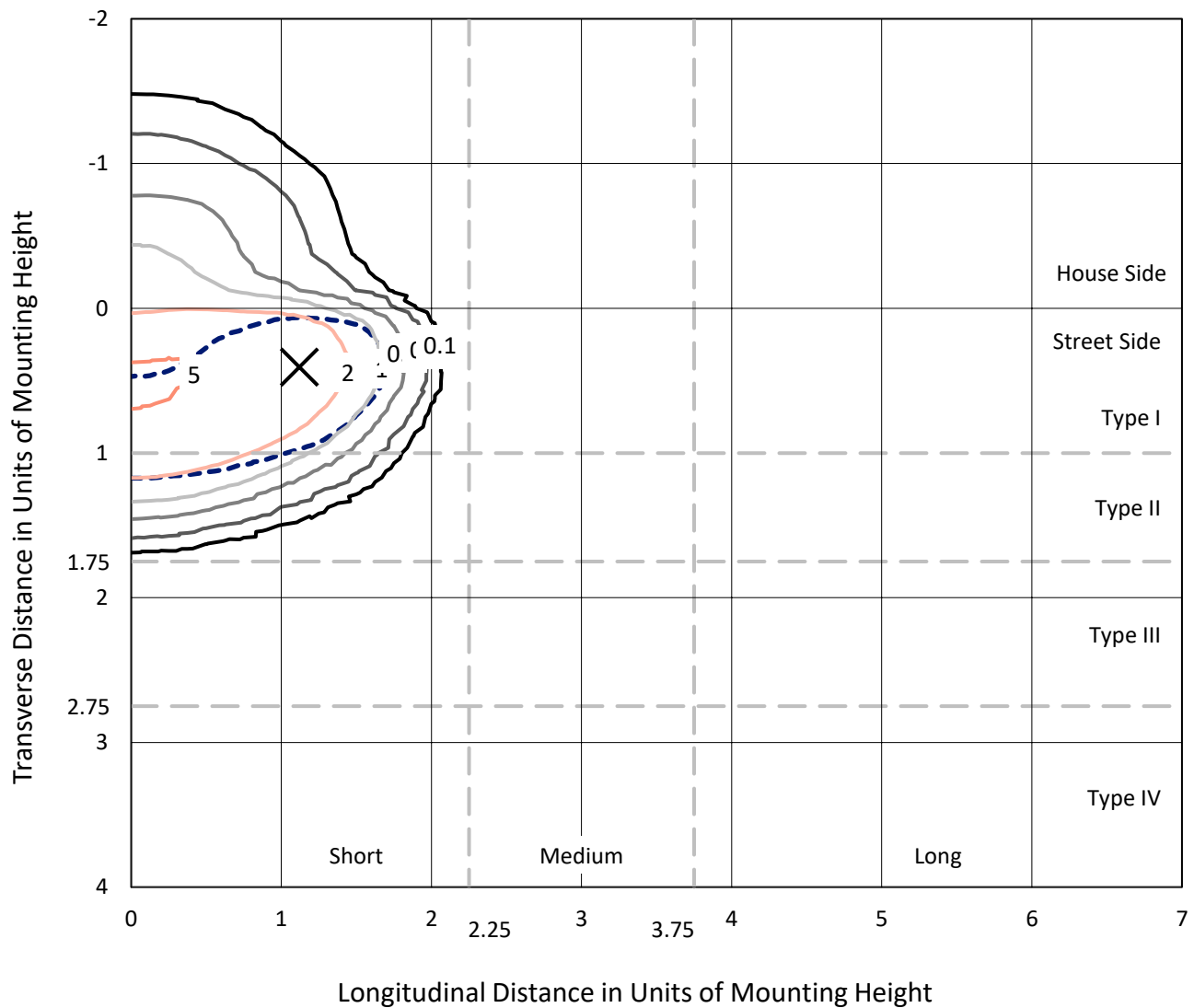


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

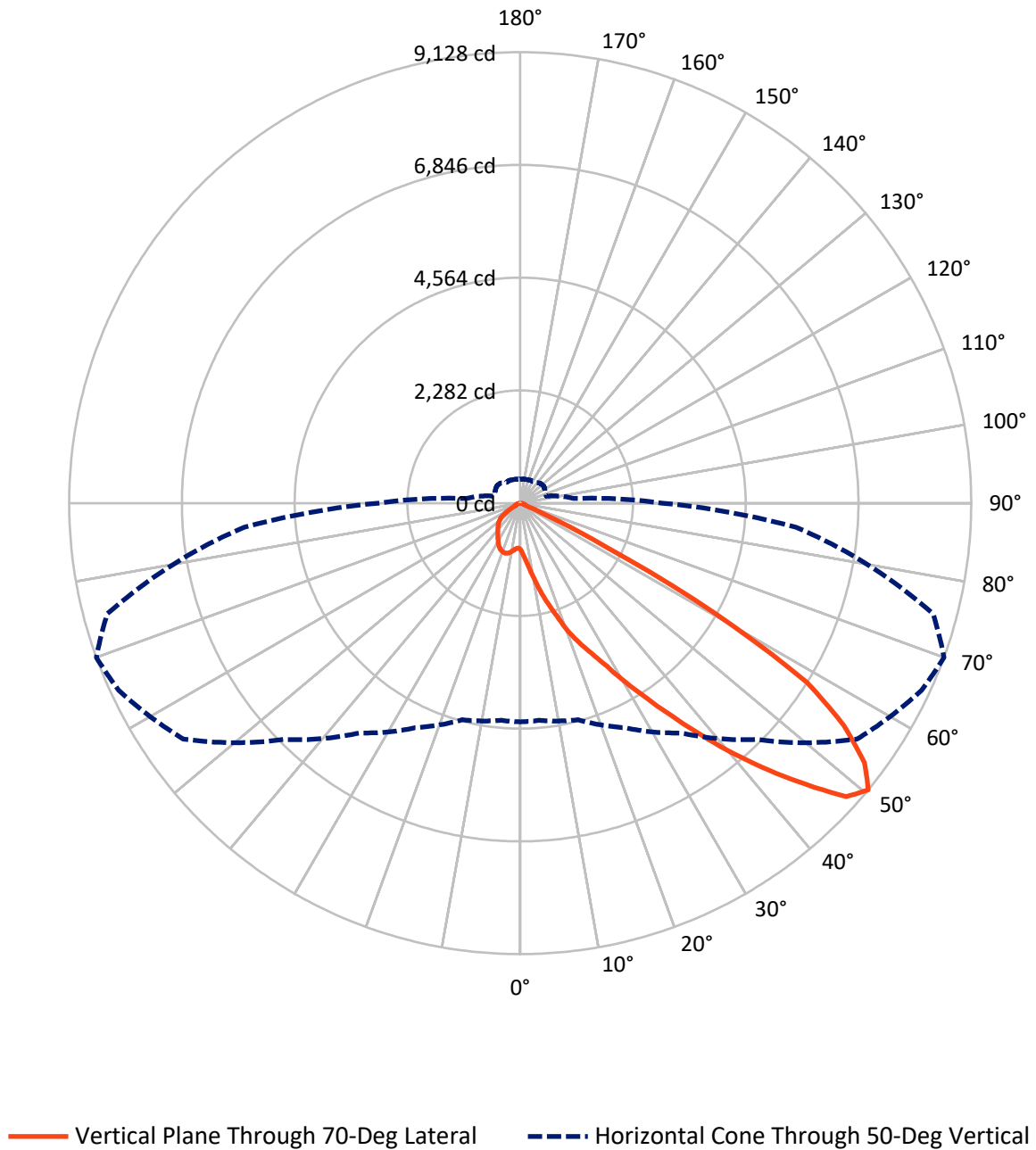


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type I - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1261.0   | 0.0    | 1261.0 |
|                    | % Fixture | 14.0     | 0.0    | 14.0   |
| <b>Street Side</b> | Lumens    | 7768.0   | 0.0    | 7768.0 |
|                    | % Fixture | 86.0     | 0.0    | 86.0   |
| <b>Total</b>       | Lumens    | 9029.0   | 0.0    | 9029.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.6  | 1.3       |
| 10°-20°   | 526.1  | 5.8       |
| 20°-30°   | 1103.6 | 12.2      |
| 30°-40°   | 1902.2 | 21.1      |
| 40°-50°   | 2780.0 | 30.8      |
| 50°-60°   | 2165.2 | 24.0      |
| 60°-70°   | 366.9  | 4.1       |
| 70°-80°   | 50.4   | 0.6       |
| 80°-90°   | 13.1   | 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°    | 9029.0 | 100.0     |
| 0°-180°   | 9029.0 | 100.0     |

**Coefficient of Utilization**



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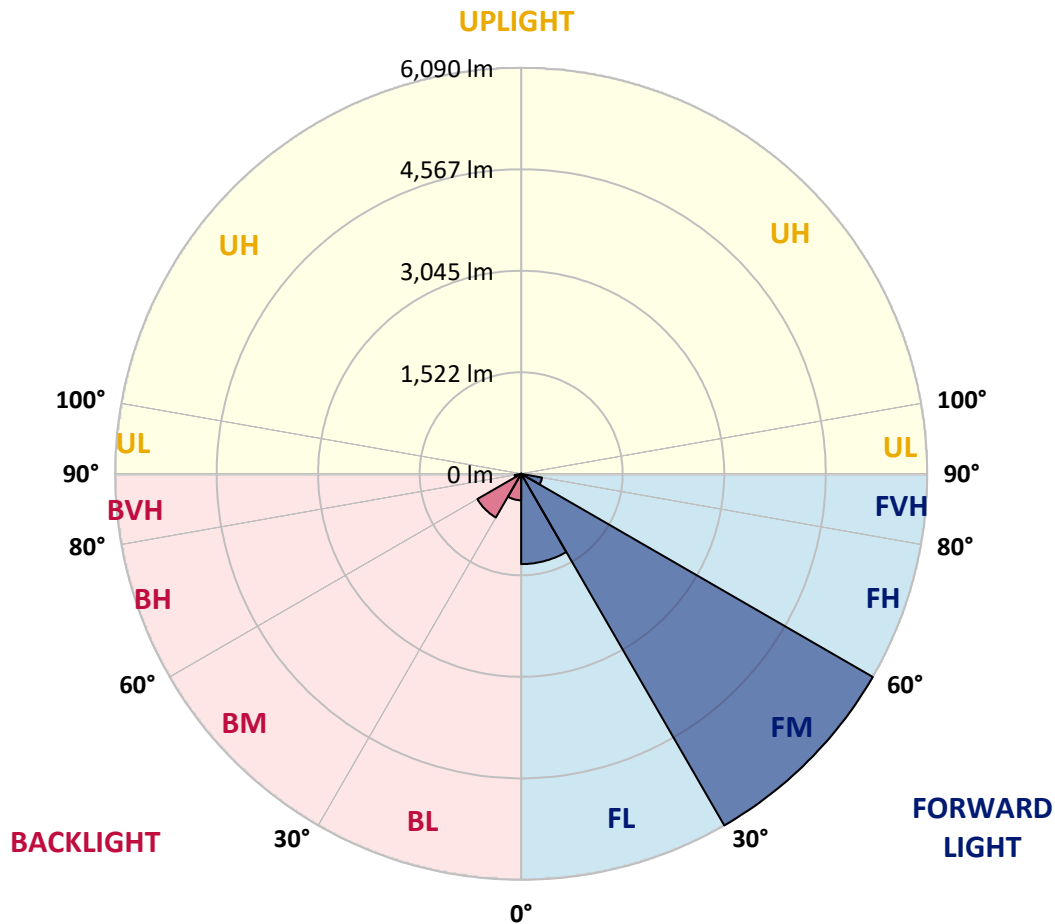
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1354.5 | 15.0      |                         |      |        |
| FM   | (30°-60°)   | 6089.9 | 67.4      |                         |      |        |
| FH   | (60°-80°)   | 317.6  | 3.5       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 6.0    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 396.8  | 4.4       | B1/500                  |      |        |
| BM   | (30°-60°)   | 757.5  | 8.4       | B1/1000                 |      |        |
| BH   | (60°-80°)   | 99.6   | 1.1       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 7.0    | 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-G0**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 70°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 935.2  | 935.2  | 935.2  | 935.2  | 935.2  | 935.2  | 935.2  | 935.2  | 935.2  | 935.2  | 935.2  |
| 2.5°  | 1224.7 | 1215.8 | 1196.5 | 1160.9 | 1146.0 | 1110.4 | 1089.6 | 1049.5 | 1024.3 | 996.1  | 964.9  |
| 5°    | 1725.0 | 1679.0 | 1650.7 | 1610.7 | 1493.4 | 1420.7 | 1300.4 | 1198.0 | 1150.5 | 1098.5 | 1027.3 |
| 7.5°  | 2241.6 | 2211.9 | 2173.3 | 2087.2 | 2007.0 | 1855.6 | 1649.3 | 1423.6 | 1327.1 | 1238.1 | 1097.0 |
| 10°   | 2669.1 | 2586.0 | 2581.5 | 2517.7 | 2430.1 | 2249.0 | 2001.1 | 1720.5 | 1548.3 | 1417.7 | 1196.5 |
| 12.5° | 2967.5 | 2891.8 | 2925.9 | 2918.5 | 2836.9 | 2670.6 | 2384.1 | 2013.0 | 1833.3 | 1630.0 | 1298.9 |
| 15°   | 3239.1 | 3208.0 | 3197.6 | 3188.7 | 3156.0 | 3032.8 | 2776.0 | 2369.2 | 2109.5 | 1864.5 | 1414.7 |
| 17.5° | 3504.9 | 3424.7 | 3463.3 | 3470.7 | 3467.8 | 3356.4 | 3115.9 | 2707.7 | 2401.9 | 2112.4 | 1536.4 |
| 20°   | 3740.9 | 3748.3 | 3696.4 | 3686.0 | 3677.1 | 3672.6 | 3438.1 | 3043.2 | 2761.1 | 2372.2 | 1695.3 |
| 22.5° | 4043.7 | 3991.8 | 4037.8 | 4008.1 | 3950.2 | 3914.6 | 3735.0 | 3340.1 | 3072.9 | 2685.4 | 1857.1 |
| 25°   | 4401.5 | 4443.1 | 4334.7 | 4322.8 | 4259.0 | 4135.8 | 3974.0 | 3672.6 | 3372.8 | 2976.4 | 2032.3 |
| 27.5° | 4842.4 | 4769.7 | 4741.5 | 4676.1 | 4560.3 | 4508.4 | 4318.4 | 4015.5 | 3735.0 | 3282.2 | 2201.5 |
| 30°   | 5220.9 | 5201.6 | 5060.6 | 4983.4 | 4882.5 | 4881.0 | 4615.3 | 4480.2 | 4207.0 | 3761.7 | 2434.6 |
| 32.5° | 5529.7 | 5445.1 | 5393.1 | 5339.7 | 5258.1 | 5280.3 | 5056.2 | 4984.9 | 4710.3 | 4207.0 | 2709.2 |
| 35°   | 5736.1 | 5675.2 | 5644.0 | 5562.4 | 5538.6 | 5638.1 | 5544.6 | 5514.9 | 5289.2 | 4833.5 | 3031.3 |
| 37.5° | 5801.4 | 5820.7 | 5814.7 | 5712.3 | 5762.8 | 6031.5 | 6151.7 | 6074.5 | 5955.8 | 5494.1 | 3380.2 |
| 40°   | 5859.3 | 5872.6 | 5842.9 | 5963.2 | 6107.2 | 6413.0 | 6847.9 | 6720.3 | 6675.7 | 6163.6 | 3865.6 |
| 42.5° | 5891.9 | 5881.5 | 5881.5 | 6089.4 | 6307.6 | 6922.2 | 7520.4 | 7435.8 | 7401.7 | 6876.1 | 4426.7 |
| 45°   | 5750.9 | 5650.0 | 5758.3 | 6040.4 | 6479.8 | 7173.0 | 8057.8 | 8175.1 | 8126.1 | 7723.8 | 5082.9 |
| 47.5° | 5223.9 | 5286.3 | 5347.1 | 5724.2 | 6270.5 | 7095.8 | 8387.3 | 8786.7 | 8877.2 | 8436.3 | 5513.4 |
| 50°   | 4426.7 | 4413.4 | 4539.6 | 5014.6 | 5678.2 | 6763.3 | 8323.5 | 8963.3 | 9128.1 | 8650.1 | 5603.9 |
| 52.5° | 3219.9 | 3317.8 | 3454.4 | 3926.5 | 4713.2 | 5902.3 | 7499.6 | 8507.6 | 8727.3 | 8387.3 | 5544.6 |
| 55°   | 1874.9 | 1766.5 | 2073.8 | 2473.2 | 3215.4 | 4452.0 | 6340.2 | 7541.2 | 7947.9 | 7909.3 | 5244.7 |
| 57.5° | 751.2  | 727.4  | 832.8  | 1122.3 | 1677.5 | 2759.7 | 4610.8 | 6196.2 | 6847.9 | 7244.3 | 4609.3 |
| 60°   | 329.6  | 322.1  | 378.5  | 457.2  | 685.8  | 1272.2 | 2522.1 | 3853.7 | 4533.6 | 5062.1 | 3172.3 |
| 62.5° | 237.5  | 234.5  | 262.8  | 291.0  | 362.2  | 553.7  | 1059.9 | 1552.8 | 1935.8 | 2338.1 | 1420.7 |
| 65°   | 191.5  | 198.9  | 218.2  | 233.1  | 267.2  | 307.3  | 374.1  | 432.0  | 530.0  | 549.3  | 313.2  |
| 67.5° | 155.9  | 161.8  | 179.6  | 196.0  | 201.9  | 166.3  | 172.2  | 151.4  | 151.4  | 135.1  | 108.4  |
| 70°   | 114.3  | 115.8  | 136.6  | 155.9  | 124.7  | 66.8   | 117.3  | 117.3  | 105.4  | 100.9  | 92.0   |
| 72.5° | 84.6   | 86.1   | 102.4  | 96.5   | 49.0   | 41.6   | 86.1   | 95.0   | 86.1   | 81.6   | 74.2   |
| 75°   | 62.3   | 63.8   | 53.4   | 22.3   | 20.8   | 26.7   | 50.5   | 65.3   | 62.3   | 60.9   | 56.4   |
| 77.5° | 11.9   | 8.9    | 7.4    | 10.4   | 14.8   | 22.3   | 32.7   | 40.1   | 41.6   | 44.5   | 41.6   |
| 80°   | 1.5    | 1.5    | 4.5    | 8.9    | 16.3   | 23.8   | 34.1   | 38.6   | 40.1   | 41.6   | 38.6   |
| 82.5° | 0.0    | 1.5    | 4.5    | 8.9    | 16.3   | 22.3   | 29.7   | 34.1   | 37.1   | 38.6   | 37.1   |
| 85°   | 0.0    | 1.5    | 3.0    | 7.4    | 13.4   | 16.3   | 14.8   | 10.4   | 8.9    | 10.4   | 7.4    |
| 87.5° | 0.0    | 0.0    | 1.5    | 1.5    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 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°    | 935.2  | 935.2  | 935.2  | 935.2  | 935.2 | 935.2 | 935.2 | 935.2 | 935.2 | 935.2 | 935.2 |
| 2.5°  | 947.1  | 941.2  | 920.4  | 898.1  | 878.8 | 887.7 | 878.8 | 871.4 | 874.4 | 871.4 | 868.4 |
| 5°    | 999.1  | 972.3  | 927.8  | 908.5  | 892.2 | 890.7 | 886.2 | 884.8 | 886.2 | 886.2 | 872.9 |
| 7.5°  | 1048.0 | 1005.0 | 957.5  | 936.7  | 917.4 | 918.9 | 908.5 | 908.5 | 907.0 | 899.6 | 896.6 |
| 10°   | 1122.3 | 1064.4 | 1003.5 | 966.4  | 942.6 | 938.2 | 927.8 | 917.4 | 917.4 | 917.4 | 902.6 |
| 12.5° | 1203.9 | 1131.2 | 1048.0 | 1005.0 | 976.8 | 954.5 | 938.2 | 935.2 | 918.9 | 915.9 | 908.5 |
| 15°   | 1275.2 | 1183.1 | 1077.7 | 1018.4 | 982.7 | 953.0 | 927.8 | 911.5 | 904.1 | 899.6 | 893.7 |
| 17.5° | 1344.9 | 1227.7 | 1094.1 | 1018.4 | 979.8 | 945.6 | 918.9 | 904.1 | 886.2 | 889.2 | 877.3 |
| 20°   | 1438.5 | 1275.2 | 1098.5 | 999.1  | 951.6 | 918.9 | 883.3 | 875.8 | 865.5 | 856.5 | 859.5 |
| 22.5° | 1529.0 | 1309.3 | 1085.2 | 975.3  | 907.0 | 868.4 | 850.6 | 841.7 | 837.3 | 829.8 | 819.4 |
| 25°   | 1610.7 | 1346.4 | 1064.4 | 932.3  | 859.5 | 831.3 | 815.0 | 813.5 | 803.1 | 803.1 | 783.8 |
| 27.5° | 1693.8 | 1359.8 | 1028.7 | 881.8  | 818.0 | 801.6 | 794.2 | 791.2 | 786.8 | 776.4 | 763.0 |
| 30°   | 1788.8 | 1364.2 | 976.8  | 829.8  | 780.8 | 763.0 | 773.4 | 780.8 | 761.5 | 742.2 | 748.2 |
| 32.5° | 1867.5 | 1353.9 | 914.4  | 780.8  | 754.1 | 745.2 | 766.0 | 773.4 | 751.2 | 730.4 | 720.0 |
| 35°   | 1962.5 | 1328.6 | 853.6  | 742.2  | 727.4 | 745.2 | 763.0 | 763.0 | 718.5 | 693.3 | 687.3 |
| 37.5° | 2106.5 | 1300.4 | 797.2  | 709.6  | 699.2 | 736.3 | 760.1 | 743.7 | 674.0 | 642.8 | 635.4 |
| 40°   | 2260.9 | 1282.6 | 742.2  | 676.9  | 684.3 | 721.5 | 734.8 | 684.3 | 613.1 | 593.8 | 587.9 |
| 42.5° | 2485.0 | 1247.0 | 693.3  | 648.7  | 671.0 | 700.7 | 700.7 | 610.1 | 583.4 | 573.0 | 571.5 |
| 45°   | 2764.1 | 1221.7 | 650.2  | 625.0  | 651.7 | 659.1 | 635.4 | 571.5 | 552.2 | 549.3 | 550.7 |
| 47.5° | 2900.7 | 1172.7 | 605.7  | 596.8  | 616.1 | 617.5 | 555.2 | 540.4 | 524.0 | 519.6 | 516.6 |
| 50°   | 2879.9 | 1085.2 | 547.8  | 559.7  | 586.4 | 571.5 | 506.2 | 509.2 | 494.3 | 492.8 | 485.4 |
| 52.5° | 2734.4 | 947.1  | 489.9  | 518.1  | 547.8 | 504.7 | 466.1 | 463.2 | 463.2 | 443.9 | 436.4 |
| 55°   | 2424.2 | 763.0  | 420.1  | 455.7  | 491.4 | 424.6 | 414.2 | 411.2 | 403.8 | 386.0 | 381.5 |
| 57.5° | 1919.4 | 559.7  | 316.2  | 354.8  | 417.1 | 360.7 | 359.2 | 345.9 | 326.6 | 313.2 | 313.2 |
| 60°   | 1141.6 | 322.1  | 198.9  | 216.7  | 276.1 | 292.4 | 325.1 | 319.2 | 286.5 | 265.7 | 259.8 |
| 62.5° | 521.1  | 166.3  | 126.2  | 129.2  | 148.4 | 190.0 | 255.3 | 295.4 | 249.4 | 213.8 | 210.8 |
| 65°   | 175.2  | 123.2  | 103.9  | 99.5   | 102.4 | 114.3 | 152.9 | 209.3 | 198.9 | 164.8 | 158.8 |
| 67.5° | 106.9  | 109.9  | 98.0   | 90.6   | 90.6  | 89.1  | 87.6  | 95.0  | 117.3 | 114.3 | 115.8 |
| 70°   | 92.0   | 100.9  | 90.6   | 81.6   | 78.7  | 74.2  | 62.3  | 52.0  | 44.5  | 52.0  | 54.9  |
| 72.5° | 74.2   | 80.2   | 77.2   | 69.8   | 62.3  | 56.4  | 44.5  | 34.1  | 25.2  | 22.3  | 22.3  |
| 75°   | 54.9   | 59.4   | 62.3   | 53.4   | 47.5  | 40.1  | 32.7  | 22.3  | 13.4  | 8.9   | 8.9   |
| 77.5° | 40.1   | 44.5   | 46.0   | 41.6   | 35.6  | 28.2  | 20.8  | 14.8  | 7.4   | 3.0   | 3.0   |
| 80°   | 34.1   | 40.1   | 44.5   | 41.6   | 37.1  | 26.7  | 19.3  | 10.4  | 5.9   | 1.5   | 1.5   |
| 82.5° | 32.7   | 40.1   | 44.5   | 40.1   | 35.6  | 25.2  | 19.3  | 11.9  | 4.5   | 1.5   | 1.5   |
| 85°   | 7.4    | 10.4   | 13.4   | 16.3   | 19.3  | 19.3  | 14.8  | 8.9   | 4.5   | 1.5   | 1.5   |
| 87.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0   | 3.0   | 3.0   | 3.0   | 1.5   | 1.5   | 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)