

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: P455594

Luminaire Tested: **GLAN-SA6D-740-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455594  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6D-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37734 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

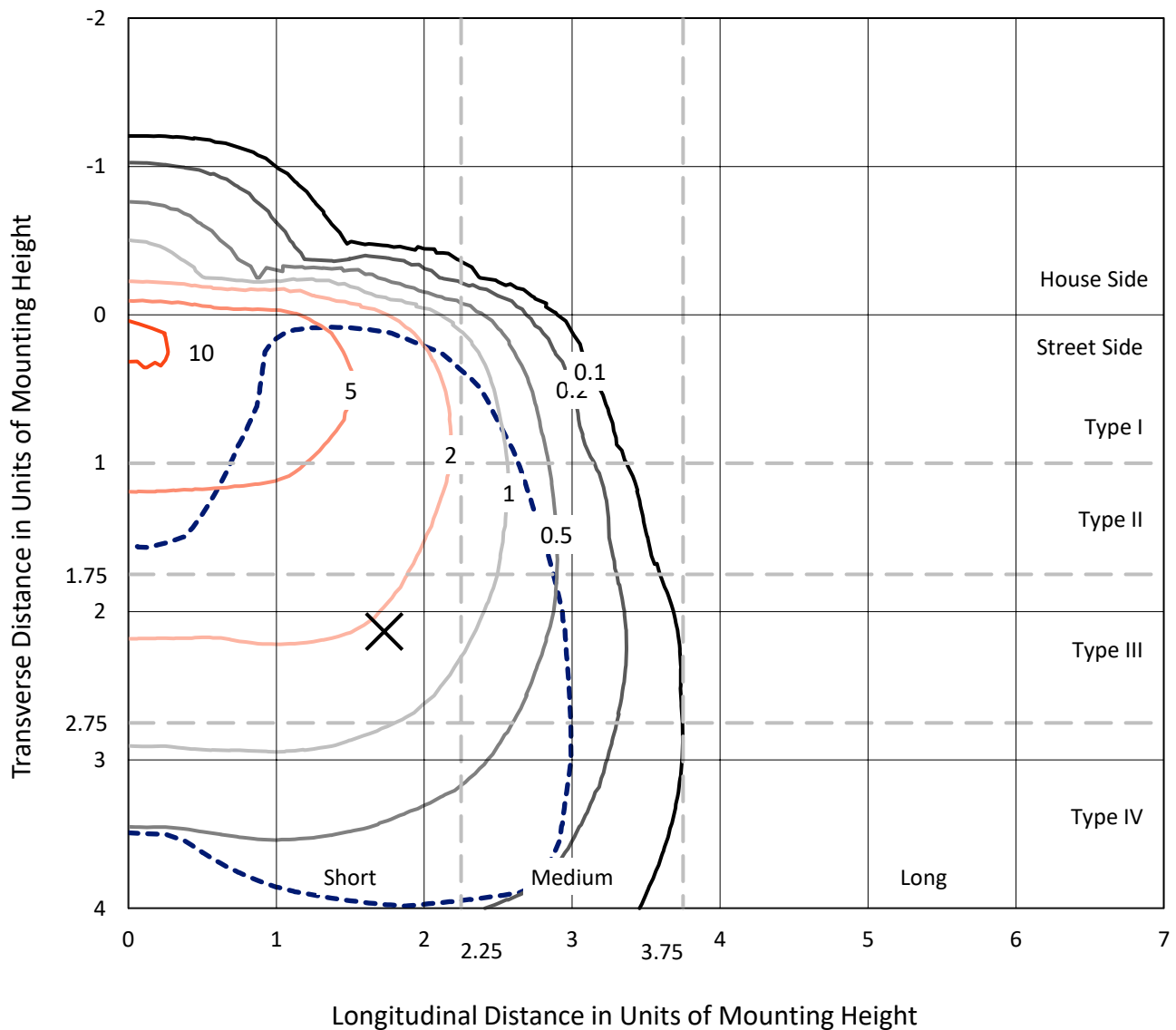


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## Iso-Footcandle Lines of Horizontal Illumination

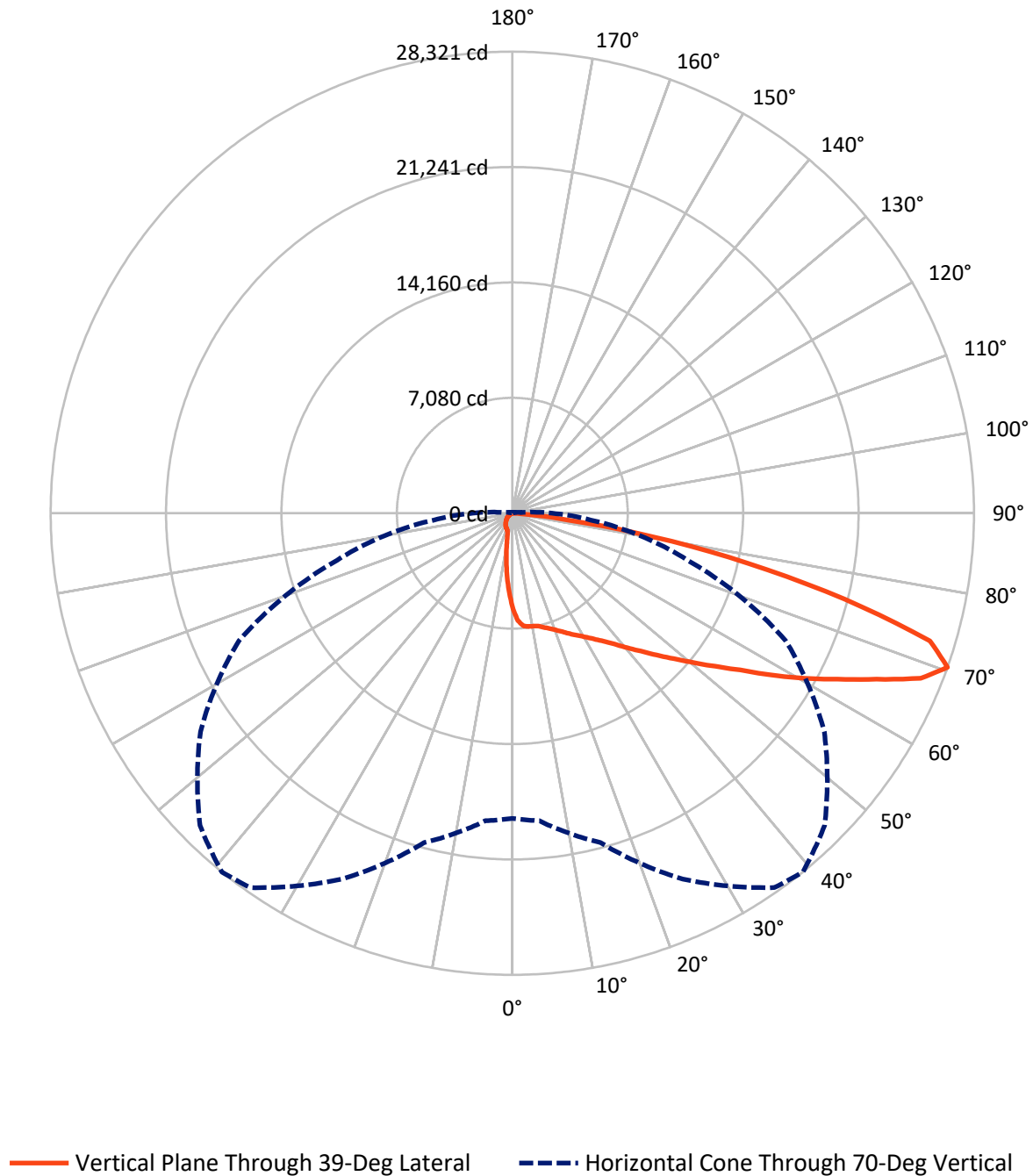
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type IV - 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    | 2460.4   | 0.0    | 2460.4  |
|                    | % Fixture | 6.5      | 0.0    | 6.5     |
| <b>Street Side</b> | Lumens    | 35273.6  | 0.0    | 35273.6 |
|                    | % Fixture | 93.5     | 0.0    | 93.5    |
| <b>Total</b>       | Lumens    | 37734.0  | 0.0    | 37734.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 502.2   | 1.3       |
| 10°-20°   | 1305.0  | 3.5       |
| 20°-30°   | 2186.3  | 5.8       |
| 30°-40°   | 3390.7  | 9.0       |
| 40°-50°   | 5373.2  | 14.2      |
| 50°-60°   | 7876.4  | 20.9      |
| 60°-70°   | 10095.6 | 26.8      |
| 70°-80°   | 6343.7  | 16.8      |
| 80°-90°   | 660.9   | 1.8       |
| 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°    | 37734.0 | 100.0     |
| 0°-180°   | 37734.0 | 100.0     |

**Coefficient of Utilization**



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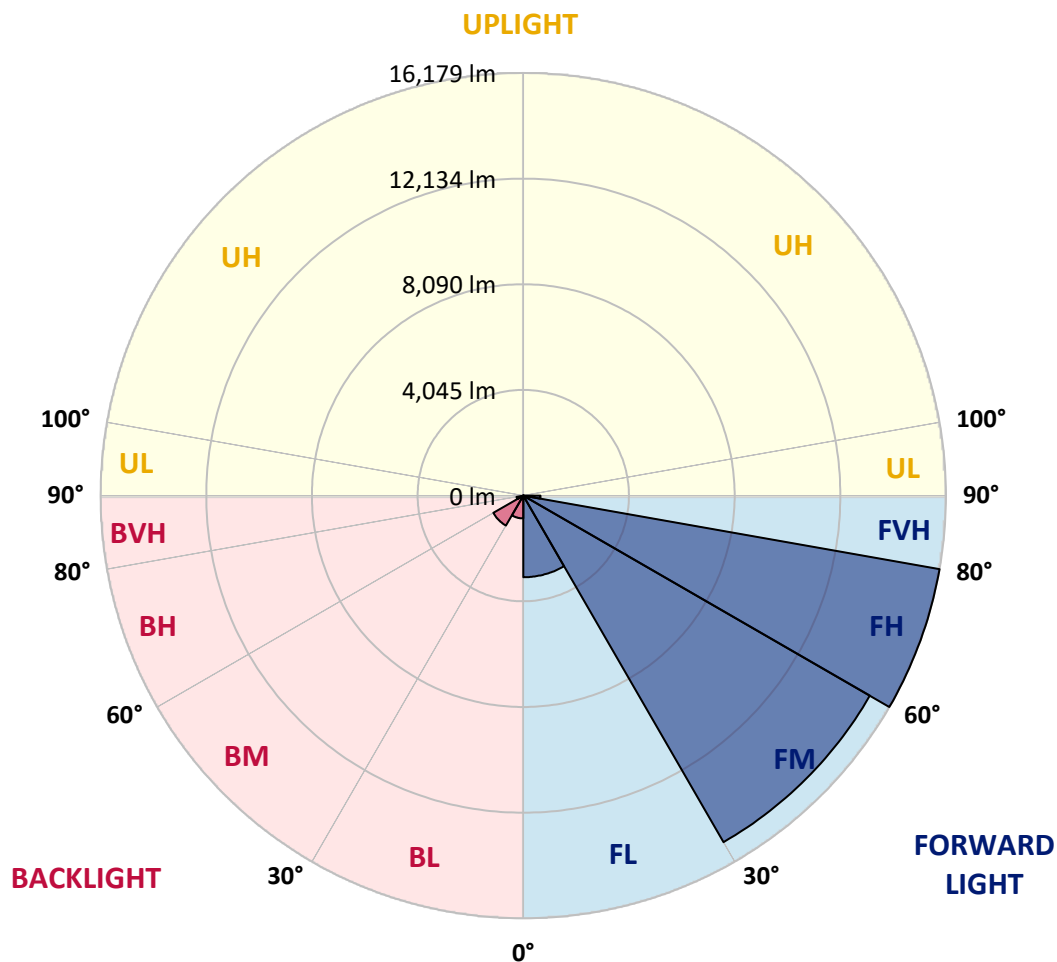
CATALOG NUMBER: GLAN-SA6D-740-U-SL4-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 3122.3  | 8.3       |                         |      |        |
| FM   | (30°-60°)   | 15316.1 | 40.6      |                         |      |        |
| FH   | (60°-80°)   | 16179.1 | 42.9      |                         |      | G5     |
| FVH  | (80°-90°)   | 656.0   | 1.7       |                         |      | G4/750 |
| BL   | (0°-30°)    | 871.2   | 2.3       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 1324.1  | 3.5       | B2/2500                 |      |        |
| BH   | (60°-80°)   | 260.2   | 0.7       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 4.9     | 0.0       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 39°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5887.8  | 5887.8  | 5887.8  | 5887.8  | 5887.8  | 5887.8  | 5887.8  | 5887.8  | 5887.8  | 5887.8  | 5887.8  |
| 2.5°  | 6803.2  | 6780.3  | 6749.9  | 6714.4  | 6613.0  | 6595.2  | 6534.4  | 6405.1  | 6250.4  | 6123.6  | 5948.7  |
| 5°    | 7125.2  | 7137.9  | 7115.1  | 7051.7  | 6978.1  | 6935.0  | 6859.0  | 6658.6  | 6458.3  | 6202.2  | 5915.7  |
| 7.5°  | 7198.7  | 7224.1  | 7196.2  | 7135.3  | 7064.3  | 7018.7  | 6957.8  | 6785.4  | 6552.1  | 6260.5  | 5867.5  |
| 10°   | 7191.1  | 7221.6  | 7203.8  | 7148.0  | 7089.7  | 7046.6  | 6980.7  | 6843.7  | 6656.1  | 6349.3  | 5882.7  |
| 12.5° | 7178.4  | 7219.0  | 7216.5  | 7188.6  | 7140.4  | 7107.4  | 7066.9  | 6945.2  | 6770.2  | 6478.6  | 5966.4  |
| 15°   | 7142.9  | 7193.7  | 7239.3  | 7262.1  | 7264.7  | 7264.7  | 7213.9  | 7084.6  | 6917.3  | 6648.5  | 6075.4  |
| 17.5° | 7158.2  | 7216.5  | 7330.6  | 7396.5  | 7442.2  | 7437.1  | 7383.8  | 7244.4  | 7059.3  | 6823.5  | 6189.5  |
| 20°   | 7252.0  | 7330.6  | 7490.3  | 7622.2  | 7667.8  | 7652.6  | 7581.6  | 7419.3  | 7208.9  | 6973.1  | 6301.1  |
| 22.5° | 7482.7  | 7553.7  | 7754.0  | 7908.7  | 7941.7  | 7901.1  | 7799.7  | 7579.1  | 7388.9  | 7135.3  | 6435.5  |
| 25°   | 7827.6  | 7911.3  | 8096.4  | 8213.0  | 8213.0  | 8190.2  | 8048.2  | 7789.5  | 7591.8  | 7361.0  | 6610.5  |
| 27.5° | 8246.0  | 8317.0  | 8499.5  | 8603.5  | 8542.6  | 8476.7  | 8334.7  | 8022.8  | 7832.6  | 7645.0  | 6820.9  |
| 30°   | 8669.4  | 8715.1  | 8907.8  | 8953.4  | 8890.0  | 8806.3  | 8654.2  | 8342.3  | 8175.0  | 8030.4  | 7125.2  |
| 32.5° | 9070.0  | 9168.9  | 9328.7  | 9318.5  | 9232.3  | 9191.8  | 9052.3  | 8720.1  | 8626.3  | 8611.1  | 7551.2  |
| 35°   | 9470.7  | 9546.8  | 9688.7  | 9724.2  | 9648.2  | 9640.6  | 9539.1  | 9293.2  | 9295.7  | 9394.6  | 8215.5  |
| 37.5° | 9815.5  | 9884.0  | 10051.3 | 10130.0 | 10145.2 | 10183.2 | 10142.6 | 9980.4  | 10211.1 | 10482.4 | 9095.4  |
| 40°   | 10104.6 | 10201.0 | 10413.9 | 10550.9 | 10708.1 | 10847.5 | 10855.2 | 10890.7 | 11354.7 | 11821.2 | 10244.1 |
| 42.5° | 10330.3 | 10464.7 | 10774.0 | 11027.6 | 11387.6 | 11565.1 | 11707.1 | 11902.4 | 12683.4 | 13380.7 | 11598.1 |
| 45°   | 10624.4 | 10779.1 | 11164.5 | 11562.6 | 12125.5 | 12417.1 | 12614.9 | 13137.2 | 14245.3 | 15196.2 | 12987.6 |
| 47.5° | 11111.3 | 11192.4 | 11585.4 | 12166.1 | 12906.5 | 13322.3 | 13707.8 | 14498.9 | 15921.4 | 16773.4 | 14143.9 |
| 50°   | 11737.6 | 11790.8 | 12087.5 | 12893.8 | 13852.3 | 14400.0 | 15102.4 | 16033.0 | 17660.9 | 18081.8 | 14798.1 |
| 52.5° | 12429.8 | 12447.5 | 12670.7 | 13695.1 | 14912.2 | 15601.9 | 16388.0 | 17536.6 | 19078.3 | 19014.9 | 15231.7 |
| 55°   | 13233.6 | 13208.2 | 13398.4 | 14564.8 | 16167.4 | 16955.9 | 17871.3 | 19075.8 | 20308.1 | 19676.7 | 15480.2 |
| 57.5° | 14154.0 | 14085.6 | 14270.7 | 15718.5 | 17775.0 | 18718.2 | 19648.8 | 20404.4 | 21261.5 | 20232.0 | 15599.4 |
| 60°   | 15117.6 | 14980.7 | 15201.3 | 17014.3 | 19669.1 | 20564.2 | 21337.6 | 21540.4 | 22265.6 | 20673.2 | 15394.0 |
| 62.5° | 15885.9 | 15888.4 | 16299.2 | 18393.7 | 21616.5 | 22400.0 | 22810.8 | 22993.3 | 23130.3 | 20576.9 | 14313.8 |
| 65°   | 17085.3 | 17125.8 | 17782.6 | 20308.1 | 23870.7 | 24550.2 | 24831.7 | 24238.4 | 23168.3 | 19380.0 | 12691.0 |
| 67.5° | 18322.7 | 18452.0 | 19653.9 | 22945.2 | 26474.8 | 27022.5 | 26659.9 | 24479.2 | 22133.8 | 16649.1 | 9622.8  |
| 70°   | 18725.8 | 18938.8 | 20919.2 | 24760.7 | 28036.8 | 28320.8 | 27093.5 | 23355.9 | 18502.7 | 11131.5 | 4843.1  |
| 72.5° | 17158.8 | 17503.6 | 20191.4 | 24098.9 | 27040.3 | 26794.3 | 24240.9 | 19588.0 | 11762.9 | 4226.9  | 1478.3  |
| 75°   | 12100.2 | 12252.3 | 16781.0 | 19991.1 | 21748.3 | 21051.0 | 18439.3 | 12627.6 | 4838.0  | 1186.7  | 507.1   |
| 77.5° | 6247.9  | 6174.3  | 9980.4  | 13264.0 | 15510.6 | 14788.0 | 12074.8 | 6536.9  | 1833.3  | 494.5   | 314.4   |
| 80°   | 3230.4  | 3283.7  | 4318.2  | 6950.2  | 9468.1  | 8712.5  | 6438.0  | 3030.1  | 976.2   | 273.9   | 240.9   |
| 82.5° | 1810.5  | 1698.9  | 2482.4  | 3035.2  | 4427.3  | 3471.3  | 2469.7  | 2145.2  | 426.0   | 164.8   | 228.2   |
| 85°   | 329.6   | 344.8   | 1361.6  | 1640.6  | 1536.6  | 976.2   | 796.2   | 1432.6  | 124.2   | 91.3    | 159.7   |
| 87.5° | 5.1     | 5.1     | 263.7   | 471.6   | 299.2   | 136.9   | 251.0   | 205.4   | 25.4    | 35.5    | 27.9    |
| 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°    | 5887.8  | 5887.8 | 5887.8 | 5887.8 | 5887.8 | 5887.8 | 5887.8 | 5887.8 | 5887.8 | 5887.8 | 5887.8 |
| 2.5°  | 5859.9  | 5763.6 | 5583.5 | 5406.0 | 5180.3 | 4995.2 | 4871.0 | 4741.7 | 4609.8 | 4620.0 | 4650.4 |
| 5°    | 5758.5  | 5591.1 | 5236.1 | 4860.9 | 4500.8 | 4176.2 | 3856.7 | 3570.2 | 3453.6 | 3347.1 | 3352.1 |
| 7.5°  | 5657.1  | 5421.2 | 4901.4 | 4313.2 | 3768.0 | 3215.2 | 2814.6 | 2484.9 | 2310.0 | 2178.1 | 2140.1 |
| 10°   | 5611.4  | 5299.5 | 4594.6 | 3785.7 | 3012.4 | 2408.9 | 1894.1 | 1625.4 | 1417.4 | 1351.5 | 1369.3 |
| 12.5° | 5631.7  | 5238.7 | 4318.2 | 3309.0 | 2388.6 | 1678.6 | 1318.5 | 1181.6 | 1136.0 | 1128.4 | 1123.3 |
| 15°   | 5669.7  | 5195.6 | 4046.9 | 2781.6 | 1754.7 | 1247.5 | 1108.1 | 1082.7 | 1077.7 | 1072.6 | 1075.1 |
| 17.5° | 5720.4  | 5157.5 | 3757.8 | 2287.2 | 1346.4 | 1090.3 | 1049.8 | 1037.1 | 1034.5 | 1034.5 | 1034.5 |
| 20°   | 5771.2  | 5114.4 | 3435.8 | 1846.0 | 1123.3 | 1029.5 | 1004.1 | 996.5  | 994.0  | 994.0  | 991.4  |
| 22.5° | 5829.5  | 5076.4 | 3108.7 | 1450.4 | 1034.5 | 986.4  | 963.6  | 958.5  | 955.9  | 953.4  | 953.4  |
| 25°   | 5913.2  | 5028.2 | 2761.3 | 1186.7 | 978.8  | 945.8  | 923.0  | 917.9  | 915.4  | 905.2  | 907.8  |
| 27.5° | 6024.7  | 4992.7 | 2403.8 | 1024.4 | 928.1  | 895.1  | 879.9  | 872.3  | 867.2  | 859.6  | 862.1  |
| 30°   | 6176.9  | 4962.3 | 2023.5 | 935.7  | 869.7  | 841.8  | 826.6  | 821.6  | 816.5  | 808.9  | 808.9  |
| 32.5° | 6440.6  | 4975.0 | 1622.8 | 864.7  | 816.5  | 783.5  | 768.3  | 763.2  | 758.2  | 750.6  | 750.6  |
| 35°   | 6836.1  | 5048.5 | 1298.3 | 803.8  | 753.1  | 720.1  | 704.9  | 704.9  | 697.3  | 687.2  | 684.6  |
| 37.5° | 7482.7  | 5236.1 | 1042.2 | 745.5  | 692.2  | 661.8  | 644.1  | 639.0  | 631.4  | 616.2  | 613.6  |
| 40°   | 8246.0  | 5527.7 | 877.3  | 687.2  | 636.5  | 606.0  | 590.8  | 575.6  | 555.3  | 540.1  | 537.6  |
| 42.5° | 9204.4  | 5826.9 | 760.7  | 628.8  | 583.2  | 555.3  | 537.6  | 512.2  | 481.8  | 461.5  | 459.0  |
| 45°   | 10203.5 | 6100.8 | 682.1  | 575.6  | 532.5  | 509.7  | 489.4  | 448.8  | 410.8  | 385.4  | 382.9  |
| 47.5° | 10949.0 | 6151.5 | 618.7  | 524.9  | 489.4  | 466.6  | 438.7  | 388.0  | 337.2  | 314.4  | 306.8  |
| 50°   | 11301.4 | 5905.5 | 552.8  | 474.2  | 446.3  | 420.9  | 385.4  | 327.1  | 271.3  | 243.4  | 238.4  |
| 52.5° | 11425.7 | 5479.6 | 499.5  | 428.5  | 403.2  | 372.7  | 329.6  | 263.7  | 213.0  | 185.1  | 182.6  |
| 55°   | 11375.0 | 4942.0 | 451.3  | 385.4  | 352.5  | 317.0  | 273.9  | 210.5  | 157.2  | 134.4  | 129.3  |
| 57.5° | 11108.7 | 4257.4 | 403.2  | 342.3  | 301.7  | 266.2  | 218.1  | 157.2  | 106.5  | 86.2   | 83.7   |
| 60°   | 10391.1 | 3324.2 | 355.0  | 294.1  | 256.1  | 218.1  | 172.4  | 111.6  | 65.9   | 48.2   | 48.2   |
| 62.5° | 9179.1  | 2467.2 | 309.4  | 246.0  | 215.5  | 175.0  | 121.7  | 71.0   | 35.5   | 25.4   | 22.8   |
| 65°   | 7670.4  | 1820.6 | 258.6  | 207.9  | 180.0  | 136.9  | 86.2   | 43.1   | 17.7   | 7.6    | 5.1    |
| 67.5° | 5352.8  | 1123.3 | 215.5  | 169.9  | 147.1  | 98.9   | 53.2   | 17.7   | 7.6    | 0.0    | 0.0    |
| 70°   | 2431.7  | 535.0  | 164.8  | 129.3  | 111.6  | 71.0   | 27.9   | 10.1   | 5.1    | 0.0    | 0.0    |
| 72.5° | 755.6   | 281.5  | 116.6  | 93.8   | 76.1   | 45.6   | 15.2   | 7.6    | 5.1    | 0.0    | 0.0    |
| 75°   | 349.9   | 180.0  | 73.5   | 50.7   | 43.1   | 22.8   | 10.1   | 5.1    | 2.5    | 0.0    | 0.0    |
| 77.5° | 261.2   | 139.5  | 43.1   | 27.9   | 22.8   | 15.2   | 7.6    | 5.1    | 2.5    | 0.0    | 0.0    |
| 80°   | 228.2   | 71.0   | 25.4   | 17.7   | 12.7   | 10.1   | 5.1    | 2.5    | 0.0    | 0.0    | 0.0    |
| 82.5° | 205.4   | 35.5   | 15.2   | 10.1   | 7.6    | 5.1    | 2.5    | 2.5    | 0.0    | 0.0    | 0.0    |
| 85°   | 111.6   | 20.3   | 10.1   | 7.6    | 5.1    | 2.5    | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 20.3    | 10.1   | 7.6    | 5.1    | 5.1    | 2.5    | 2.5    | 2.5    | 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)