

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: P324423

Luminaire Tested: **GAN-SA9D-727-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324423  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9D-727-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43002 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

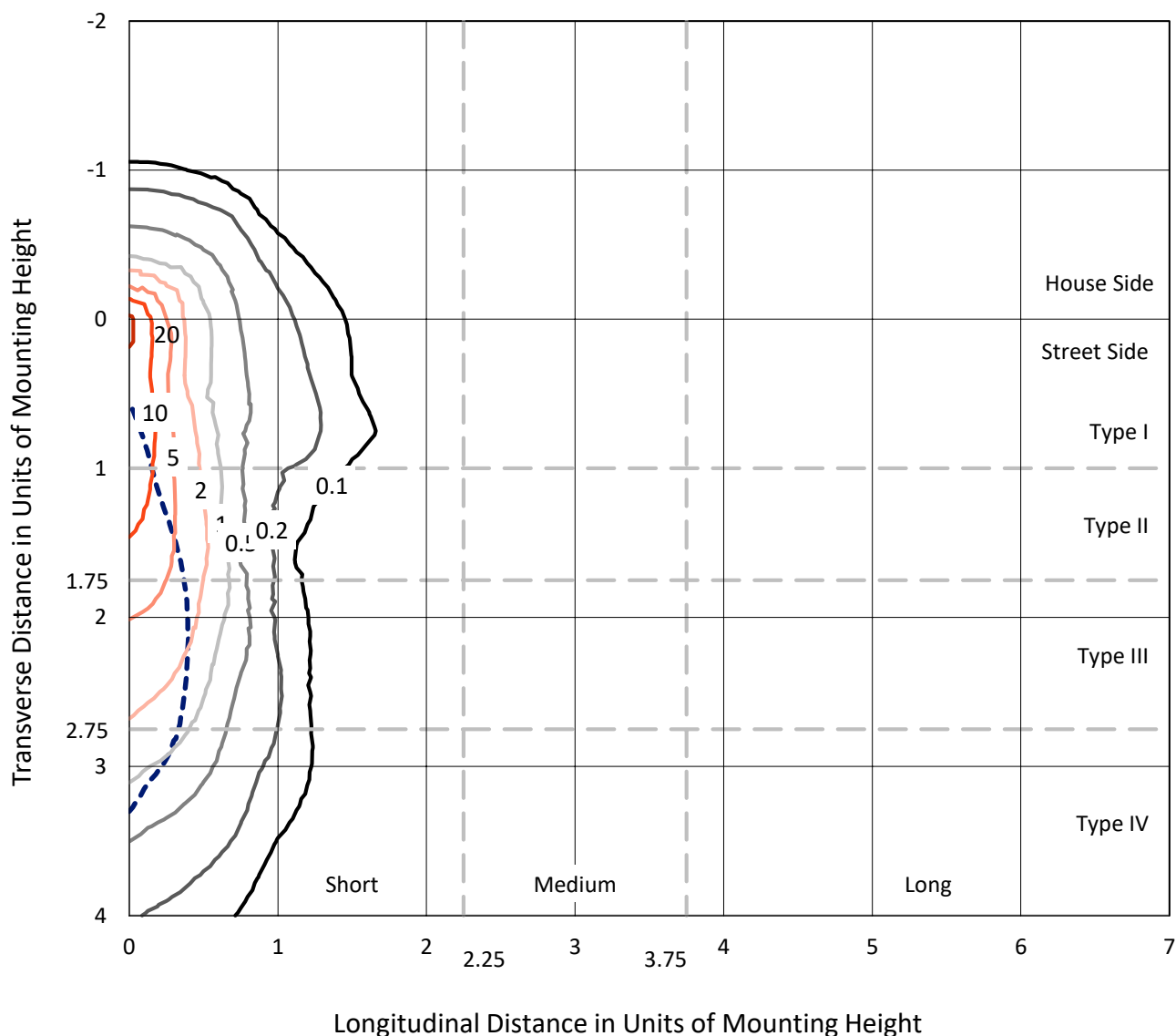
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

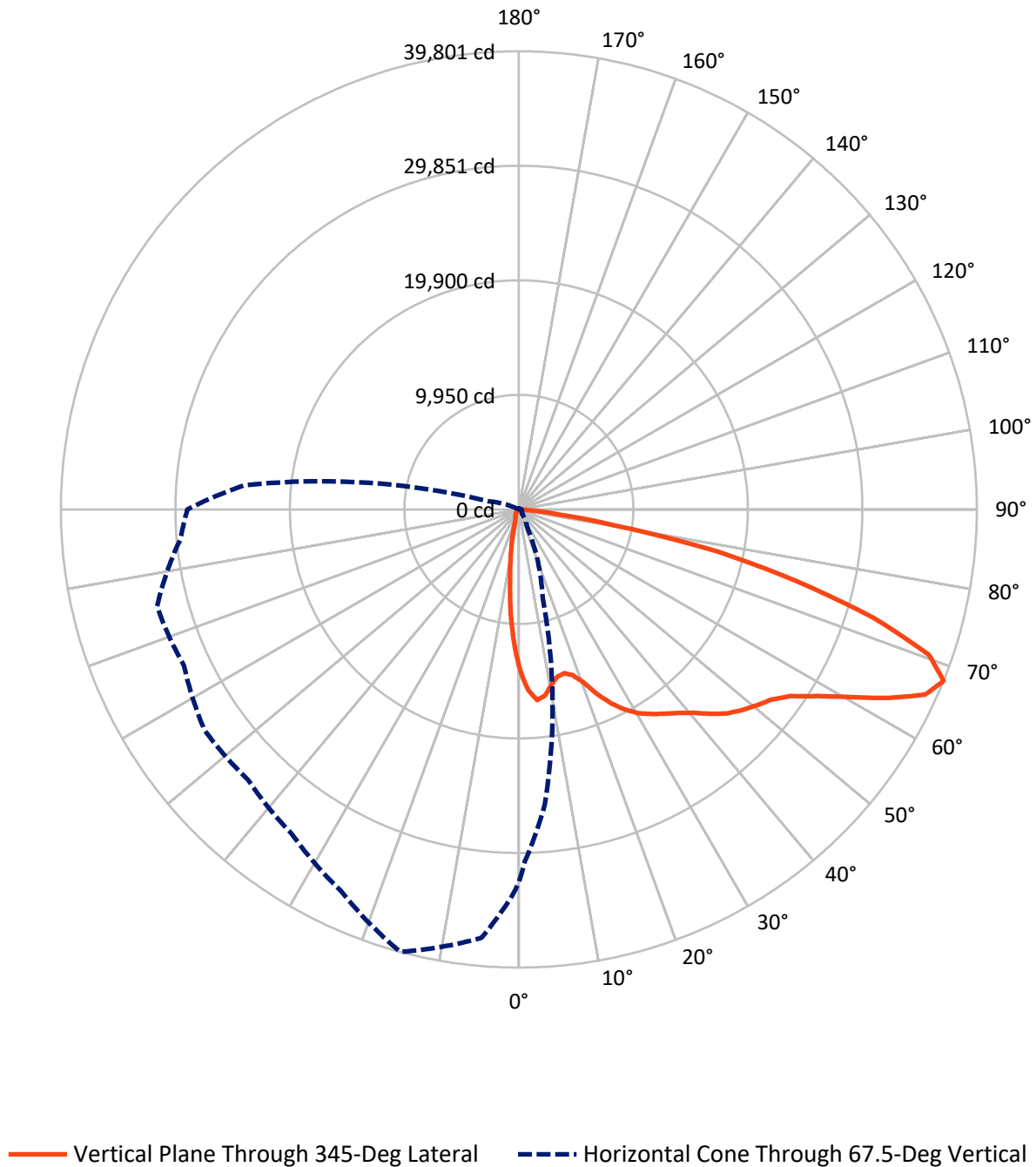
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5204.7   | 0.0    | 5204.7  |
|                    | % Fixture | 12.1     | 0.0    | 12.1    |
| <b>Street Side</b> | Lumens    | 37797.3  | 0.0    | 37797.3 |
|                    | % Fixture | 87.9     | 0.0    | 87.9    |
| <b>Total</b>       | Lumens    | 43002.0  | 0.0    | 43002.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1075.1  | 2.5       |
| 10°-20°   | 2139.9  | 5.0       |
| 20°-30°   | 3038.7  | 7.1       |
| 30°-40°   | 4488.4  | 10.4      |
| 40°-50°   | 6473.2  | 15.1      |
| 50°-60°   | 9087.0  | 21.1      |
| 60°-70°   | 10592.8 | 24.6      |
| 70°-80°   | 5415.3  | 12.6      |
| 80°-90°   | 691.6   | 1.6       |
| 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°    | 43002.0 | 100.0     |
| 0°-180°   | 43002.0 | 100.0     |

**Coefficient of Utilization**



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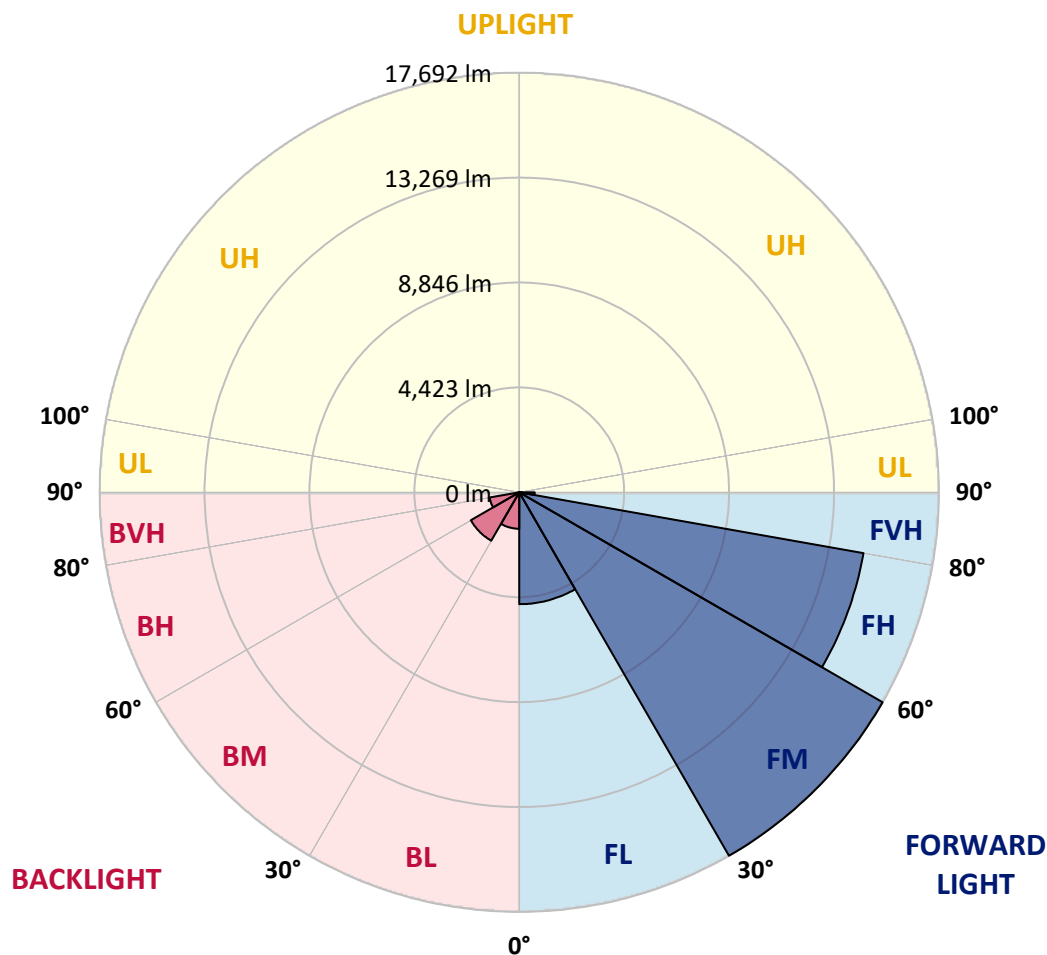
CATALOG NUMBER: GAN-SA9D-727-U-SLR-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4716.5  | 11.0      |                         |      |         |
| FM   | (30°-60°)   | 17691.7 | 41.1      |                         |      |         |
| FH   | (60°-80°)   | 14739.6 | 34.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 649.6   | 1.5       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1537.3  | 3.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2356.8  | 5.5       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1268.5  | 2.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 42.0    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 |
| 2.5°  | 15338.1 | 15220.0 | 15089.6 | 14663.8 | 14268.6 | 13816.3 | 13447.6 | 13190.9 | 12869.0 | 12451.4 | 12345.5 |
| 5°    | 15228.1 | 15101.8 | 14692.3 | 13745.0 | 12915.9 | 12109.1 | 11330.9 | 10874.6 | 10308.3 | 9733.8  | 9591.2  |
| 7.5°  | 14121.9 | 13989.5 | 13398.7 | 12101.0 | 10984.6 | 9819.3  | 8808.9  | 8183.5  | 7543.8  | 7018.2  | 6739.1  |
| 10°   | 12970.9 | 12826.2 | 12162.1 | 10587.4 | 9212.2  | 8159.0  | 7417.5  | 6820.6  | 6215.5  | 5653.2  | 5205.1  |
| 12.5° | 12178.4 | 11989.0 | 11267.8 | 9483.2  | 8285.3  | 7570.3  | 6877.6  | 6162.5  | 5343.6  | 4740.6  | 4247.6  |
| 15°   | 11846.3 | 11630.4 | 10868.5 | 9057.4  | 7957.3  | 7118.0  | 6215.5  | 5337.5  | 4378.0  | 3687.3  | 3235.1  |
| 17.5° | 12103.0 | 11821.9 | 11005.0 | 9028.9  | 7545.8  | 6402.9  | 5262.1  | 4231.3  | 3190.3  | 2491.5  | 2169.6  |
| 20°   | 12975.0 | 12606.2 | 11569.3 | 9020.7  | 7046.7  | 5553.4  | 4107.0  | 2941.7  | 2102.4  | 1690.9  | 1521.8  |
| 22.5° | 14348.0 | 13861.1 | 12380.1 | 9085.9  | 6531.3  | 4661.1  | 2966.2  | 1998.5  | 1578.8  | 1364.9  | 1265.1  |
| 25°   | 16006.3 | 15442.0 | 13547.4 | 9316.1  | 6079.0  | 3793.3  | 2155.4  | 1578.8  | 1332.3  | 1175.5  | 1091.9  |
| 27.5° | 17583.1 | 17124.7 | 15022.3 | 9648.2  | 5728.6  | 3092.5  | 1750.0  | 1338.4  | 1138.8  | 1034.9  | 967.7   |
| 30°   | 19157.9 | 18581.3 | 16536.0 | 10043.4 | 5306.9  | 2617.8  | 1538.1  | 1220.3  | 1020.6  | 910.6   | 867.8   |
| 32.5° | 20302.8 | 19824.0 | 17721.6 | 10328.6 | 4856.7  | 2308.2  | 1375.1  | 1116.4  | 953.4   | 841.4   | 778.2   |
| 35°   | 21649.4 | 21107.5 | 18738.2 | 10391.8 | 4567.4  | 2112.6  | 1236.6  | 1004.3  | 827.1   | 727.3   | 660.1   |
| 37.5° | 23103.9 | 22429.6 | 19911.6 | 10253.3 | 4341.3  | 2016.8  | 1132.7  | 953.4   | 772.1   | 670.2   | 598.9   |
| 40°   | 24713.3 | 23951.4 | 21038.2 | 10053.6 | 4119.2  | 1984.2  | 1053.2  | 914.7   | 729.3   | 625.4   | 552.1   |
| 42.5° | 26408.3 | 25509.9 | 22014.0 | 9843.8  | 3978.7  | 1872.2  | 1045.1  | 876.0   | 696.7   | 584.7   | 511.3   |
| 45°   | 27832.3 | 26921.7 | 23016.3 | 9774.5  | 3878.8  | 1750.0  | 1079.7  | 849.5   | 674.3   | 552.1   | 480.8   |
| 47.5° | 28967.0 | 28105.3 | 24043.1 | 9929.3  | 3821.8  | 1637.9  | 984.0   | 884.1   | 662.1   | 523.6   | 454.3   |
| 50°   | 30321.8 | 29345.9 | 25489.5 | 10391.8 | 3738.3  | 1525.9  | 890.3   | 1012.5  | 662.1   | 505.2   | 431.9   |
| 52.5° | 32020.8 | 31055.2 | 27103.0 | 11108.9 | 3571.2  | 1371.0  | 800.6   | 1014.5  | 668.2   | 480.8   | 403.4   |
| 55°   | 34157.8 | 33457.0 | 29407.1 | 11895.2 | 3304.3  | 1142.9  | 692.6   | 871.9   | 643.8   | 436.0   | 376.9   |
| 57.5° | 36207.2 | 35634.8 | 31507.4 | 12433.1 | 2947.8  | 892.3   | 603.0   | 702.8   | 588.8   | 383.0   | 336.1   |
| 59°   | 36767.5 | 36142.1 | 32277.5 | 12457.5 | 2681.0  | 778.2   | 558.2   | 580.6   | 576.5   | 358.5   | 311.7   |
| 60°   | 36767.5 | 36103.3 | 32499.5 | 12327.1 | 2487.4  | 715.1   | 529.7   | 517.5   | 601.0   | 342.3   | 297.4   |
| 62.5° | 36101.3 | 35168.3 | 31778.4 | 11445.0 | 2029.1  | 609.1   | 462.4   | 427.8   | 539.9   | 307.6   | 262.8   |
| 65°   | 34716.0 | 33357.2 | 29321.5 | 9849.9  | 1809.0  | 558.2   | 399.3   | 350.4   | 374.8   | 270.9   | 230.2   |
| 67.5° | 32405.8 | 30564.2 | 25778.8 | 7957.3  | 1721.4  | 543.9   | 344.3   | 297.4   | 283.2   | 232.2   | 201.7   |
| 70°   | 28337.5 | 26294.2 | 21478.3 | 6256.3  | 1646.1  | 537.8   | 289.3   | 250.6   | 228.2   | 195.6   | 171.1   |
| 72.5° | 20624.7 | 18493.7 | 15248.5 | 4891.3  | 1601.2  | 550.0   | 232.2   | 209.8   | 187.4   | 152.8   | 132.4   |
| 75°   | 11797.5 | 10402.0 | 8570.5  | 3231.0  | 1364.9  | 525.6   | 179.3   | 175.2   | 134.5   | 110.0   | 91.7    |
| 77.5° | 6095.3  | 5909.9  | 5135.8  | 1240.7  | 653.9   | 230.2   | 118.2   | 101.9   | 79.5    | 67.2    | 55.0    |
| 80°   | 2630.0  | 2601.5  | 2251.1  | 358.5   | 173.2   | 128.3   | 67.2    | 42.8    | 36.7    | 28.5    | 22.4    |
| 82.5° | 908.6   | 908.6   | 800.6   | 120.2   | 77.4    | 63.2    | 8.1     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 183.3   | 205.8   | 144.6   | 0.0     | 26.5    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 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     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 |
| 2.5°  | 12217.1 | 11970.6 | 11954.3 | 11799.5 | 11606.0 | 11518.4 | 11467.4 | 11557.1 | 11667.1 | 11679.3 | 11844.3 |
| 5°    | 9483.2  | 9224.5  | 9332.4  | 9057.4  | 9112.4  | 9057.4  | 8967.8  | 8984.1  | 9033.0  | 8880.2  | 9069.6  |
| 7.5°  | 6659.6  | 6464.1  | 6588.3  | 6515.0  | 6612.8  | 6651.5  | 6596.5  | 6515.0  | 6274.6  | 6246.1  | 6411.1  |
| 10°   | 5019.7  | 4797.6  | 4665.2  | 4526.7  | 4557.2  | 4620.4  | 4600.0  | 4540.9  | 4388.1  | 4396.3  | 4555.2  |
| 12.5° | 4033.7  | 3785.1  | 3522.3  | 3182.1  | 3098.6  | 3145.4  | 3098.6  | 3064.0  | 2917.3  | 2929.5  | 3070.1  |
| 15°   | 3059.9  | 2856.2  | 2581.1  | 2308.2  | 2159.4  | 2173.7  | 2043.3  | 1951.6  | 1860.0  | 1750.0  | 1835.5  |
| 17.5° | 2065.7  | 1941.5  | 1860.0  | 1778.5  | 1601.2  | 1560.5  | 1395.5  | 1218.2  | 1149.0  | 1098.1  | 1134.7  |
| 20°   | 1462.7  | 1395.5  | 1362.9  | 1358.8  | 1257.0  | 1206.0  | 1045.1  | 935.1   | 900.4   | 890.3   | 912.7   |
| 22.5° | 1222.3  | 1173.4  | 1126.6  | 1100.1  | 1049.2  | 990.1   | 867.8   | 812.8   | 788.4   | 776.2   | 792.5   |
| 25°   | 1063.4  | 1026.8  | 977.9   | 933.0   | 912.7   | 849.5   | 761.9   | 721.2   | 704.9   | 692.6   | 700.8   |
| 27.5° | 945.3   | 912.7   | 855.6   | 827.1   | 810.8   | 755.8   | 680.4   | 647.8   | 633.6   | 629.5   | 627.5   |
| 30°   | 851.6   | 821.0   | 768.0   | 735.4   | 706.9   | 658.0   | 613.2   | 580.6   | 566.3   | 562.3   | 558.2   |
| 32.5° | 757.8   | 733.4   | 698.8   | 666.2   | 635.6   | 590.8   | 552.1   | 525.6   | 503.2   | 499.1   | 497.1   |
| 35°   | 639.7   | 615.2   | 596.9   | 594.9   | 566.3   | 523.6   | 495.0   | 460.4   | 442.1   | 436.0   | 438.0   |
| 37.5° | 568.4   | 535.8   | 495.0   | 509.3   | 501.2   | 470.6   | 431.9   | 397.3   | 378.9   | 374.8   | 374.8   |
| 40°   | 523.6   | 488.9   | 442.1   | 417.6   | 442.1   | 436.0   | 374.8   | 340.2   | 321.9   | 319.8   | 315.8   |
| 42.5° | 480.8   | 446.1   | 393.2   | 352.4   | 364.7   | 383.0   | 323.9   | 291.3   | 273.0   | 268.9   | 262.8   |
| 45°   | 450.2   | 413.6   | 354.5   | 307.6   | 283.2   | 321.9   | 277.1   | 236.3   | 226.1   | 218.0   | 213.9   |
| 47.5° | 421.7   | 387.1   | 319.8   | 266.9   | 226.1   | 232.2   | 222.1   | 193.5   | 181.3   | 173.2   | 171.1   |
| 50°   | 397.3   | 360.6   | 289.3   | 228.2   | 187.4   | 171.1   | 179.3   | 152.8   | 142.6   | 134.5   | 130.4   |
| 52.5° | 368.7   | 334.1   | 256.7   | 197.6   | 156.9   | 134.5   | 136.5   | 120.2   | 110.0   | 103.9   | 101.9   |
| 55°   | 346.3   | 311.7   | 230.2   | 173.2   | 138.5   | 110.0   | 97.8    | 93.7    | 87.6    | 83.5    | 81.5    |
| 57.5° | 315.8   | 283.2   | 203.7   | 146.7   | 118.2   | 89.6    | 75.4    | 75.4    | 73.3    | 69.3    | 67.2    |
| 59°   | 297.4   | 268.9   | 187.4   | 132.4   | 108.0   | 77.4    | 67.2    | 69.3    | 67.2    | 63.2    | 61.1    |
| 60°   | 283.2   | 256.7   | 175.2   | 122.2   | 101.9   | 71.3    | 61.1    | 65.2    | 63.2    | 59.1    | 57.0    |
| 62.5° | 250.6   | 232.2   | 150.8   | 101.9   | 89.6    | 57.0    | 50.9    | 55.0    | 55.0    | 53.0    | 50.9    |
| 65°   | 220.0   | 199.6   | 128.3   | 85.6    | 83.5    | 48.9    | 40.7    | 48.9    | 50.9    | 46.9    | 42.8    |
| 67.5° | 191.5   | 171.1   | 112.0   | 69.3    | 77.4    | 38.7    | 30.6    | 40.7    | 55.0    | 42.8    | 38.7    |
| 70°   | 163.0   | 142.6   | 87.6    | 55.0    | 81.5    | 26.5    | 24.4    | 36.7    | 65.2    | 46.9    | 36.7    |
| 72.5° | 126.3   | 110.0   | 61.1    | 40.7    | 87.6    | 18.3    | 18.3    | 30.6    | 73.3    | 50.9    | 34.6    |
| 75°   | 87.6    | 71.3    | 36.7    | 24.4    | 71.3    | 12.2    | 12.2    | 28.5    | 69.3    | 46.9    | 32.6    |
| 77.5° | 50.9    | 38.7    | 12.2    | 2.0     | 36.7    | 0.0     | 2.0     | 20.4    | 48.9    | 28.5    | 14.3    |
| 80°   | 18.3    | 8.1     | 0.0     | 0.0     | 22.4    | 0.0     | 0.0     | 0.0     | 4.1     | 0.0     | 0.0     |
| 82.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 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     |



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**CANDELA DISTRIBUTION (continued):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 |
| 2.5°  | 11887.1 | 12162.1 | 12408.6 | 12781.4 | 13223.5 | 13732.8 | 14170.8 | 14641.4 | 15083.5 | 15266.8 | 15393.1 |
| 5°    | 9108.3  | 9448.6  | 9845.8  | 10393.8 | 11123.1 | 12021.5 | 12862.9 | 13814.3 | 14837.0 | 15348.3 | 15829.1 |
| 7.5°  | 6439.6  | 6785.9  | 7278.9  | 7861.6  | 8743.7  | 9813.2  | 10913.3 | 12227.3 | 13612.6 | 14421.4 | 15217.9 |
| 10°   | 4630.6  | 5056.3  | 5516.8  | 6313.3  | 7209.7  | 8224.2  | 9356.9  | 10823.7 | 12367.9 | 13264.2 | 14223.8 |
| 12.5° | 3151.6  | 3636.4  | 4333.1  | 5225.4  | 6278.7  | 7272.8  | 8256.8  | 9656.4  | 11449.1 | 12337.3 | 13366.1 |
| 15°   | 1890.5  | 2159.4  | 2896.9  | 3929.8  | 5221.4  | 6460.0  | 7537.7  | 8941.3  | 10852.2 | 11940.1 | 13009.6 |
| 17.5° | 1165.3  | 1289.6  | 1690.9  | 2538.4  | 3895.1  | 5461.7  | 6938.7  | 8698.9  | 10937.8 | 12261.9 | 13406.8 |
| 20°   | 929.0   | 977.9   | 1106.2  | 1499.4  | 2581.1  | 4361.7  | 6264.4  | 8650.0  | 11636.5 | 13266.3 | 14494.7 |
| 22.5° | 806.7   | 853.6   | 939.2   | 1089.9  | 1623.7  | 3265.6  | 5624.7  | 8694.8  | 12638.8 | 14771.8 | 16206.0 |
| 25°   | 711.0   | 751.7   | 833.2   | 957.5   | 1189.7  | 2300.0  | 4940.2  | 8894.4  | 13944.7 | 16639.9 | 18163.7 |
| 27.5° | 635.6   | 670.2   | 745.6   | 859.7   | 1020.6  | 1605.3  | 4164.0  | 9136.9  | 15492.9 | 18550.8 | 20054.2 |
| 30°   | 566.3   | 596.9   | 664.1   | 770.1   | 886.2   | 1234.5  | 3312.5  | 9301.9  | 17043.3 | 20054.2 | 21404.9 |
| 32.5° | 507.3   | 529.7   | 590.8   | 680.4   | 770.1   | 984.0   | 2518.0  | 9275.4  | 18194.3 | 21305.1 | 22376.7 |
| 35°   | 446.1   | 468.6   | 521.5   | 598.9   | 670.2   | 812.8   | 1980.2  | 8780.4  | 19196.6 | 22602.8 | 23489.0 |
| 37.5° | 378.9   | 407.4   | 458.4   | 527.6   | 576.5   | 715.1   | 1601.2  | 8183.5  | 20213.1 | 24085.9 | 24729.6 |
| 40°   | 321.9   | 350.4   | 395.2   | 470.6   | 501.2   | 678.4   | 1230.5  | 7456.2  | 21356.0 | 25744.2 | 26090.5 |
| 42.5° | 266.9   | 293.4   | 340.2   | 405.4   | 472.6   | 584.7   | 910.6   | 6625.0  | 22454.1 | 27162.1 | 27331.1 |
| 45°   | 215.9   | 242.4   | 291.3   | 356.5   | 505.2   | 484.9   | 704.9   | 5734.7  | 23340.3 | 28341.6 | 28396.6 |
| 47.5° | 171.1   | 195.6   | 246.5   | 336.1   | 470.6   | 387.1   | 503.2   | 5036.0  | 24083.8 | 29262.4 | 29117.8 |
| 50°   | 132.4   | 152.8   | 205.8   | 385.0   | 411.5   | 319.8   | 381.0   | 4803.7  | 24750.0 | 29832.8 | 29458.0 |
| 52.5° | 103.9   | 122.2   | 169.1   | 360.6   | 319.8   | 264.8   | 319.8   | 5021.7  | 25662.7 | 30305.5 | 29649.5 |
| 55°   | 83.5    | 101.9   | 132.4   | 205.8   | 218.0   | 224.1   | 273.0   | 5225.4  | 27237.4 | 31413.7 | 30780.1 |
| 57.5° | 69.3    | 87.6    | 108.0   | 144.6   | 165.0   | 189.5   | 242.4   | 5247.8  | 29093.3 | 33255.3 | 32656.4 |
| 59°   | 63.2    | 79.5    | 97.8    | 128.3   | 144.6   | 173.2   | 228.2   | 5125.6  | 29747.3 | 33925.6 | 33626.1 |
| 60°   | 59.1    | 75.4    | 91.7    | 118.2   | 134.5   | 163.0   | 220.0   | 5009.5  | 29775.8 | 33901.1 | 34039.7 |
| 62.5° | 50.9    | 67.2    | 81.5    | 99.8    | 114.1   | 138.5   | 197.6   | 4579.6  | 28569.8 | 32790.9 | 33791.1 |
| 65°   | 44.8    | 59.1    | 73.3    | 85.6    | 97.8    | 124.3   | 179.3   | 3795.3  | 26510.1 | 31000.1 | 32090.1 |
| 67.5° | 40.7    | 50.9    | 67.2    | 75.4    | 87.6    | 110.0   | 158.9   | 2705.4  | 23937.2 | 28810.2 | 29517.1 |
| 70°   | 36.7    | 48.9    | 61.1    | 69.3    | 79.5    | 95.7    | 136.5   | 1554.4  | 20213.1 | 25603.6 | 26106.8 |
| 72.5° | 34.6    | 46.9    | 55.0    | 65.2    | 71.3    | 85.6    | 124.3   | 731.4   | 14800.3 | 20510.6 | 21824.6 |
| 75°   | 30.6    | 42.8    | 50.9    | 61.1    | 67.2    | 77.4    | 105.9   | 350.4   | 9843.8  | 14843.1 | 16336.3 |
| 77.5° | 18.3    | 34.6    | 46.9    | 55.0    | 59.1    | 67.2    | 87.6    | 201.7   | 6282.7  | 10273.6 | 12101.0 |
| 80°   | 0.0     | 12.2    | 34.6    | 46.9    | 50.9    | 57.0    | 67.2    | 158.9   | 3361.4  | 5869.2  | 7044.7  |
| 82.5° | 0.0     | 0.0     | 24.4    | 36.7    | 34.6    | 38.7    | 50.9    | 99.8    | 1515.7  | 3836.1  | 4322.9  |
| 85°   | 0.0     | 0.0     | 8.1     | 28.5    | 24.4    | 18.3    | 34.6    | 34.6    | 332.1   | 1941.5  | 2422.2  |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.0     | 12.2    | 8.1     | 14.3    | 4.1     | 2.0     | 144.6   | 586.7   |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 | 14007.8 |
| 2.5°  | 15835.2 | 15985.9 | 16240.6 | 16360.8 | 16301.7 | 16051.1 | 15751.7 | 15446.1 | 15266.8 | 15338.1 |
| 5°    | 16809.0 | 17585.2 | 18033.3 | 18182.1 | 17933.5 | 17371.2 | 16635.8 | 15666.1 | 15321.8 | 15228.1 |
| 7.5°  | 16809.0 | 18269.7 | 19194.5 | 19357.5 | 18803.4 | 17701.3 | 16322.1 | 14808.4 | 14305.3 | 14121.9 |
| 10°   | 16218.2 | 18206.5 | 19496.1 | 19754.8 | 18980.6 | 17332.5 | 15484.8 | 13757.2 | 13160.3 | 12970.9 |
| 12.5° | 15552.0 | 17693.1 | 19051.9 | 19408.5 | 18772.8 | 16965.8 | 14904.2 | 13046.3 | 12343.4 | 12178.4 |
| 15°   | 15142.5 | 17061.6 | 18186.1 | 18444.9 | 18175.9 | 16751.9 | 14765.7 | 12832.4 | 12005.2 | 11846.3 |
| 17.5° | 15289.2 | 16572.7 | 16978.1 | 17128.8 | 17310.1 | 16676.6 | 15142.5 | 13300.9 | 12253.8 | 12103.0 |
| 20°   | 15841.3 | 16057.3 | 15847.4 | 16036.9 | 16525.8 | 16749.9 | 16041.0 | 14433.6 | 13176.6 | 12975.0 |
| 22.5° | 16778.4 | 15790.4 | 15201.6 | 15277.0 | 15871.9 | 16992.3 | 17414.0 | 16051.1 | 14600.6 | 14348.0 |
| 25°   | 17870.4 | 16006.3 | 14843.1 | 14775.8 | 15387.0 | 17312.2 | 18668.9 | 17811.3 | 16285.4 | 16006.3 |
| 27.5° | 19243.4 | 16491.2 | 14769.7 | 14702.5 | 15217.9 | 17611.6 | 19712.0 | 19551.1 | 18059.8 | 17583.1 |
| 30°   | 20302.8 | 16967.9 | 14987.7 | 14832.9 | 15387.0 | 17819.4 | 20549.3 | 21028.0 | 19473.6 | 19157.9 |
| 32.5° | 21062.7 | 17530.1 | 15342.2 | 15118.1 | 15863.7 | 18178.0 | 21195.1 | 22380.7 | 20781.5 | 20302.8 |
| 35°   | 21641.2 | 18141.3 | 15914.6 | 15545.9 | 16519.7 | 18721.9 | 21800.1 | 23821.0 | 22172.9 | 21649.4 |
| 37.5° | 22183.1 | 18999.0 | 16809.0 | 16368.9 | 17548.5 | 19597.9 | 22439.8 | 25454.9 | 23729.4 | 23103.9 |
| 40°   | 22938.9 | 19970.7 | 18188.2 | 17797.0 | 19278.1 | 20791.7 | 23238.4 | 27158.0 | 25499.7 | 24713.3 |
| 42.5° | 23694.7 | 21013.8 | 19599.9 | 19705.9 | 21435.5 | 22242.2 | 24269.2 | 28958.9 | 27247.6 | 26408.3 |
| 45°   | 24385.3 | 22089.4 | 21610.7 | 22099.6 | 23438.0 | 23833.3 | 25293.9 | 29999.9 | 28643.1 | 27832.3 |
| 47.5° | 25000.6 | 23434.0 | 23609.2 | 24910.9 | 25715.6 | 25273.6 | 26059.9 | 30898.3 | 29682.1 | 28967.0 |
| 50°   | 25715.6 | 25173.7 | 26243.3 | 28084.9 | 28337.5 | 26577.4 | 26756.7 | 31961.7 | 30896.3 | 30321.8 |
| 52.5° | 26497.9 | 27007.2 | 29160.6 | 30784.2 | 30702.7 | 27993.2 | 27457.4 | 33153.5 | 32560.6 | 32020.8 |
| 55°   | 27386.1 | 28488.3 | 31729.5 | 33310.3 | 33241.1 | 29574.1 | 28618.7 | 34626.4 | 34646.7 | 34157.8 |
| 57.5° | 28704.2 | 29763.6 | 33473.3 | 35353.7 | 35469.8 | 31399.4 | 30586.6 | 36276.5 | 36533.2 | 36207.2 |
| 59°   | 29649.5 | 30590.7 | 34163.9 | 36207.2 | 36679.9 | 32811.2 | 32024.9 | 37234.0 | 37064.9 | 36767.5 |
| 60°   | 30350.3 | 31116.3 | 34506.2 | 36653.4 | 37382.7 | 33768.7 | 33086.2 | 37796.3 | 37128.1 | 36767.5 |
| 62.5° | 32083.9 | 32261.2 | 35123.5 | 37158.6 | 38191.5 | 35895.6 | 36072.8 | 38753.8 | 36690.1 | 36101.3 |
| 65°   | 32892.7 | 32984.4 | 35115.3 | 36254.1 | 37409.2 | 37551.8 | 38782.3 | 38782.3 | 35620.5 | 34716.0 |
| 67.5° | 32554.5 | 32112.5 | 33373.5 | 33255.3 | 34408.4 | 36567.8 | 39800.9 | 37360.3 | 33575.2 | 32405.8 |
| 70°   | 29804.3 | 28103.2 | 27543.0 | 27593.9 | 28476.1 | 31806.9 | 37784.0 | 33175.9 | 29704.5 | 28337.5 |
| 72.5° | 24798.9 | 20718.4 | 19335.1 | 20913.9 | 21144.2 | 24444.4 | 32200.1 | 24984.3 | 21906.1 | 20624.7 |
| 75°   | 19946.3 | 14604.7 | 12355.6 | 14022.1 | 14413.2 | 17888.7 | 24908.9 | 15560.2 | 12795.7 | 11797.5 |
| 77.5° | 14329.7 | 10483.5 | 8865.9  | 8749.8  | 9255.0  | 11345.2 | 17674.8 | 7831.0  | 6531.3  | 6095.3  |
| 80°   | 8140.7  | 6900.0  | 7429.7  | 7010.0  | 7264.7  | 7093.5  | 8397.4  | 3434.7  | 2813.4  | 2630.0  |
| 82.5° | 4913.7  | 4078.5  | 4416.7  | 3677.2  | 4653.0  | 4052.0  | 3235.1  | 1100.1  | 955.4   | 908.6   |
| 85°   | 3196.4  | 2228.7  | 1161.2  | 778.2   | 1603.3  | 2589.3  | 723.2   | 299.5   | 230.2   | 183.3   |
| 87.5° | 1102.1  | 568.4   | 57.0    | 24.4    | 171.1   | 482.8   | 26.5    | 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     |

(END OF REPORT)