

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: McGRAW-EDISON

Report Number: P455868

Luminaire Tested: **GALN-SA7A-750-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24938 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

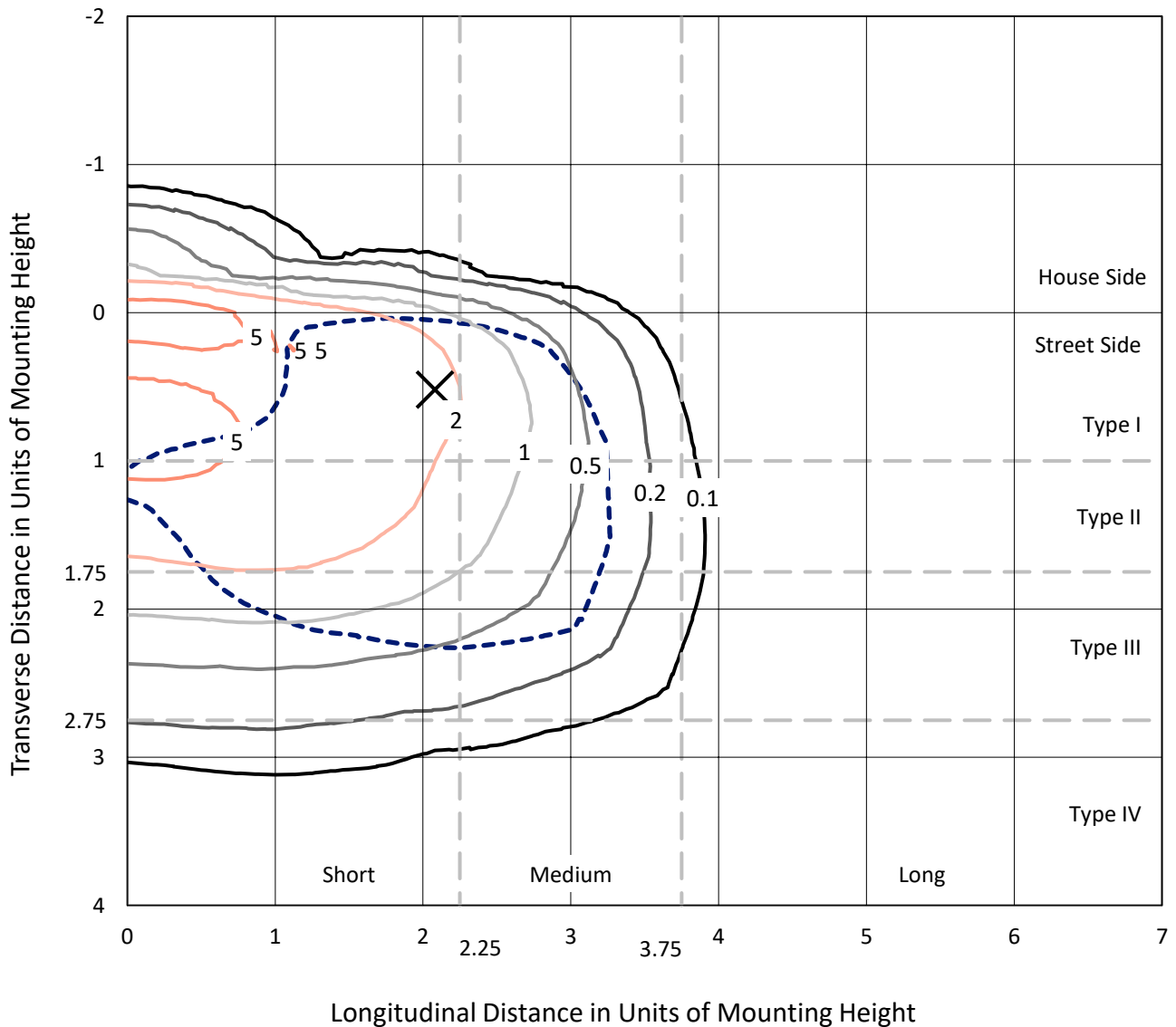
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

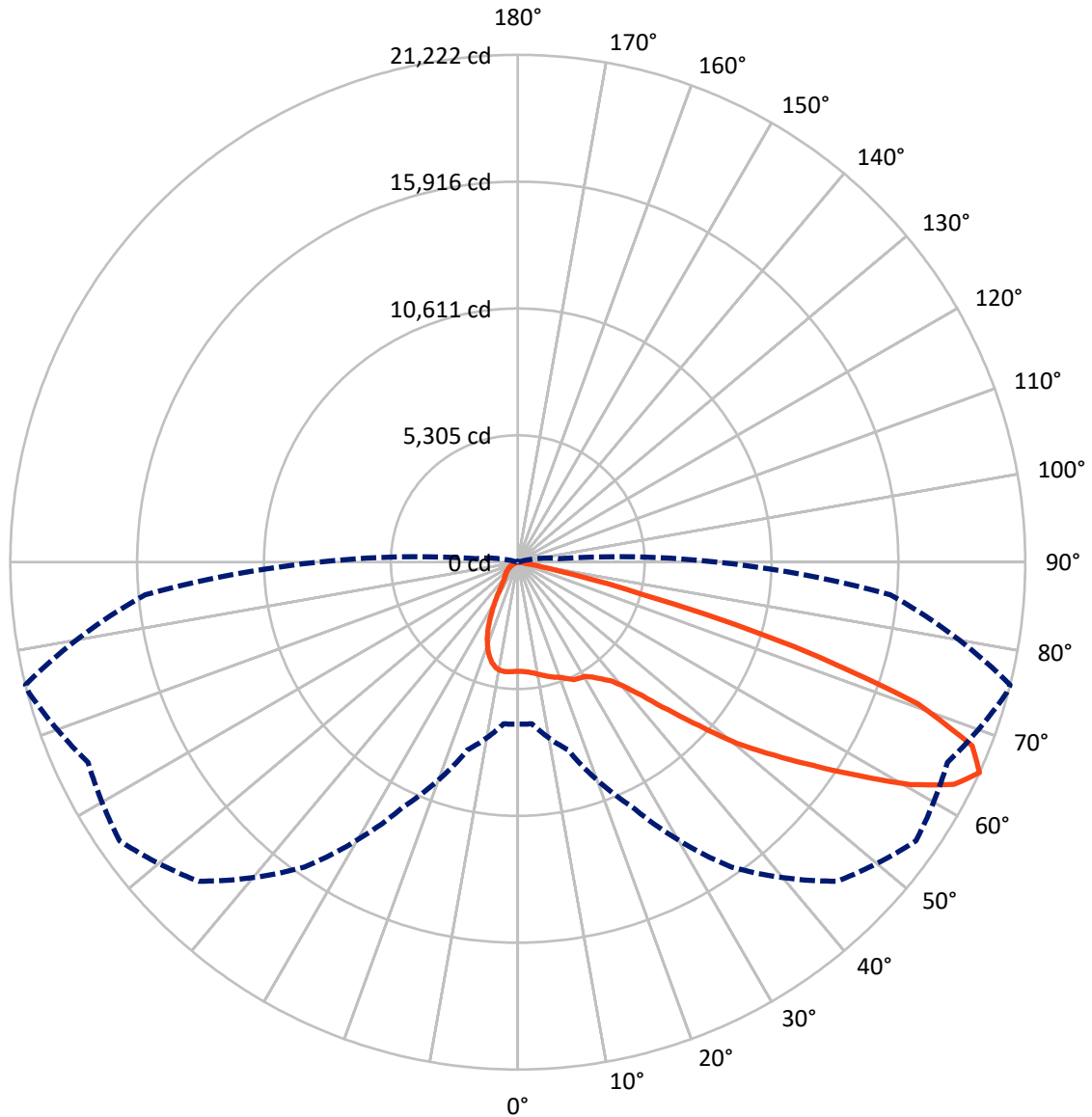
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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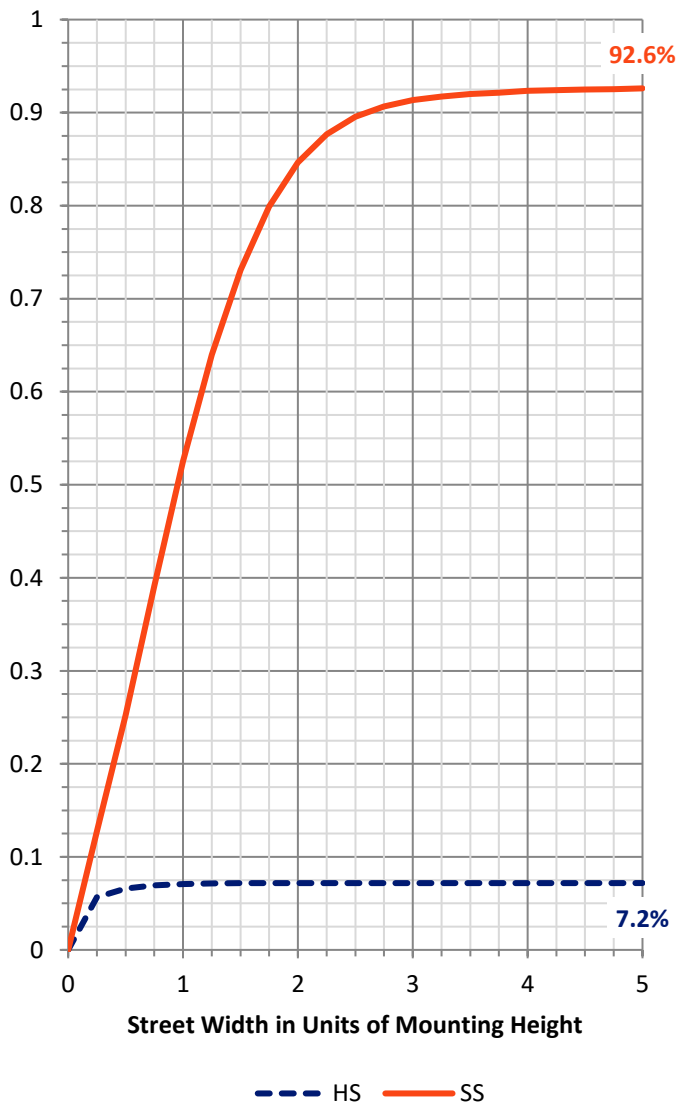
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1801.0   | 0.0    | 1801.0  |
|                    | % Fixture | 7.2      | 0.0    | 7.2     |
| <b>Street Side</b> | Lumens    | 23137.0  | 0.0    | 23137.0 |
|                    | % Fixture | 92.8     | 0.0    | 92.8    |
| <b>Total</b>       | Lumens    | 24938.0  | 0.0    | 24938.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 375.8   | 1.5       |
| 10°-20°   | 836.7   | 3.4       |
| 20°-30°   | 1348.3  | 5.4       |
| 30°-40°   | 2344.4  | 9.4       |
| 40°-50°   | 3874.0  | 15.5      |
| 50°-60°   | 5984.6  | 24.0      |
| 60°-70°   | 7308.0  | 29.3      |
| 70°-80°   | 2773.6  | 11.1      |
| 80°-90°   | 92.6    | 0.4       |
| 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°    | 24938.0 | 100.0     |
| 0°-180°   | 24938.0 | 100.0     |

**Coefficient of Utilization**



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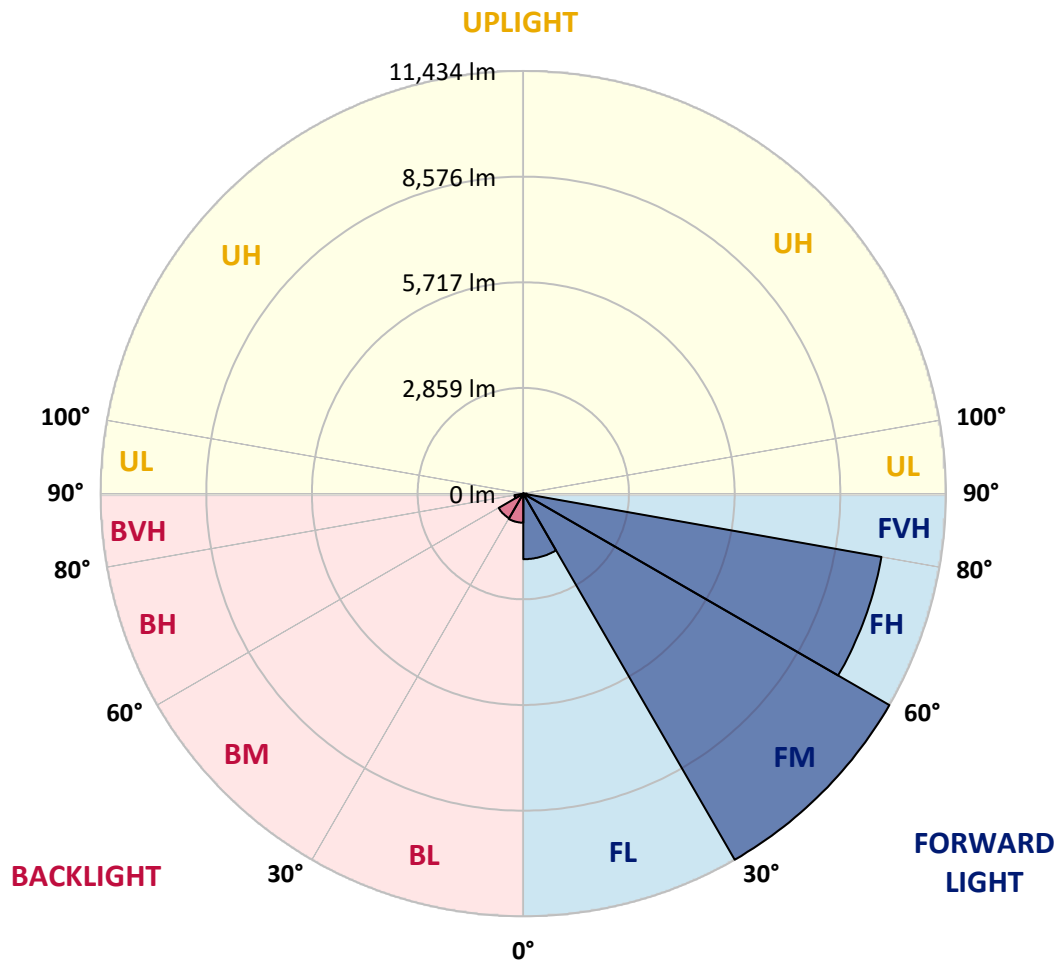
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1774.0  | 7.1       |                         |      |          |
| FM (30°-60°)   | 11434.5 | 45.9      |                         |      |          |
| FH (60°-80°)   | 9837.2  | 39.4      |                         |      | G4/12000 |
| FVH (80°-90°)  | 91.3    | 0.4       |                         |      | G1/100   |
| BL (0°-30°)    | 786.8   | 3.2       | B2/1000                 |      |          |
| BM (30°-60°)   | 768.5   | 3.1       | B1/1000                 |      |          |
| BH (60°-80°)   | 244.4   | 1.0       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 1.3     | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4562.0  | 4562.0  | 4562.0  | 4562.0  | 4562.0  | 4562.0  | 4562.0  | 4562.0  | 4562.0  | 4562.0  | 4562.0  |
| 2.5°  | 4359.5  | 4361.2  | 4371.8  | 4398.2  | 4438.7  | 4472.2  | 4500.3  | 4546.1  | 4577.8  | 4581.3  | 4591.9  |
| 5°    | 4058.4  | 4037.3  | 4058.4  | 4127.1  | 4188.7  | 4282.0  | 4396.5  | 4510.9  | 4613.0  | 4620.1  | 4669.4  |
| 7.5°  | 3720.3  | 3738.0  | 3771.4  | 3841.8  | 3958.0  | 4100.7  | 4266.2  | 4470.4  | 4664.1  | 4681.7  | 4778.5  |
| 10°   | 3377.0  | 3415.7  | 3470.3  | 3577.7  | 3739.7  | 3924.6  | 4150.0  | 4442.2  | 4745.1  | 4769.7  | 4937.0  |
| 12.5° | 3060.1  | 3077.7  | 3144.6  | 3289.0  | 3489.7  | 3750.3  | 4061.9  | 4426.4  | 4834.9  | 4864.8  | 5106.0  |
| 15°   | 2817.1  | 2840.0  | 2898.1  | 3028.4  | 3252.0  | 3586.5  | 3989.7  | 4421.1  | 4922.9  | 4965.2  | 5275.0  |
| 17.5° | 2771.3  | 2785.4  | 2810.1  | 2898.1  | 3093.5  | 3456.2  | 3924.6  | 4419.3  | 5007.4  | 5058.5  | 5431.7  |
| 20°   | 2959.7  | 2947.4  | 2922.8  | 2913.9  | 3021.3  | 3355.9  | 3877.0  | 4433.4  | 5088.4  | 5146.5  | 5597.2  |
| 22.5° | 3431.6  | 3447.4  | 3303.1  | 3132.3  | 3097.1  | 3340.0  | 3870.0  | 4500.3  | 5216.9  | 5285.6  | 5782.1  |
| 25°   | 4433.4  | 4311.9  | 4086.6  | 3678.1  | 3370.0  | 3436.9  | 3949.2  | 4658.8  | 5366.6  | 5442.3  | 5949.4  |
| 27.5° | 5540.9  | 5503.9  | 5153.5  | 4481.0  | 3907.0  | 3641.1  | 4090.1  | 4780.3  | 5415.9  | 5493.4  | 6044.5  |
| 30°   | 6629.0  | 6673.0  | 6271.6  | 5528.6  | 4687.0  | 4019.7  | 4222.1  | 4826.1  | 5459.9  | 5540.9  | 6165.9  |
| 32.5° | 7637.9  | 7690.7  | 7338.6  | 6602.6  | 5606.0  | 4674.6  | 4449.3  | 5003.9  | 5644.8  | 5727.5  | 6368.4  |
| 35°   | 8432.0  | 8439.0  | 8173.1  | 7586.8  | 6609.6  | 5470.5  | 4940.5  | 5315.5  | 5894.8  | 5991.6  | 6583.2  |
| 37.5° | 9160.9  | 9150.3  | 8838.7  | 8333.4  | 7446.0  | 6261.0  | 5558.5  | 5674.7  | 6180.0  | 6280.4  | 6893.1  |
| 40°   | 9701.4  | 9708.5  | 9608.1  | 9132.7  | 8226.0  | 6991.7  | 6048.0  | 6011.0  | 6658.9  | 6815.6  | 7343.9  |
| 42.5° | 10062.4 | 10127.5 | 10176.8 | 9935.6  | 9206.7  | 7891.4  | 6799.8  | 6731.1  | 7490.0  | 7620.3  | 7981.2  |
| 45°   | 10354.6 | 10470.8 | 10717.3 | 10705.0 | 10148.6 | 8995.4  | 7831.6  | 7690.7  | 8667.9  | 8807.0  | 8792.9  |
| 47.5° | 10567.7 | 10685.6 | 11094.1 | 11340.6 | 11034.3 | 10065.9 | 9129.2  | 9007.7  | 10074.7 | 10226.1 | 9689.1  |
| 50°   | 10676.8 | 10817.7 | 11338.9 | 11816.0 | 11726.2 | 11097.6 | 10608.2 | 10615.2 | 11773.8 | 11919.9 | 10727.9 |
| 52.5° | 10421.5 | 10604.7 | 11469.2 | 12328.4 | 12502.7 | 12085.4 | 11993.8 | 12226.3 | 13286.2 | 13411.2 | 11666.4 |
| 55°   | 9606.3  | 9837.0  | 11291.3 | 12765.0 | 13402.4 | 13251.0 | 13567.9 | 13921.8 | 14939.5 | 15020.5 | 12629.5 |
| 57.5° | 9090.5  | 9335.2  | 10766.6 | 13136.5 | 14483.5 | 14715.9 | 15217.7 | 15476.5 | 16645.6 | 16851.6 | 13735.2 |
| 60°   | 8655.6  | 8847.5  | 10335.3 | 13215.8 | 15582.1 | 16508.3 | 16996.0 | 17263.6 | 18751.4 | 18885.2 | 14951.8 |
| 62.5° | 7931.9  | 8152.0  | 9606.3  | 12662.9 | 16135.0 | 17943.2 | 18953.9 | 18834.1 | 20380.0 | 20473.3 | 15698.3 |
| 65°   | 6768.1  | 6787.5  | 8127.4  | 11273.7 | 15564.5 | 18874.6 | 20329.0 | 19827.2 | 21158.3 | 21221.6 | 15640.2 |
| 67.5° | 5051.4  | 5238.1  | 6252.2  | 8861.6  | 13147.1 | 18078.8 | 20774.4 | 19853.6 | 20667.0 | 20490.9 | 14398.9 |
| 70°   | 3253.8  | 3396.4  | 4238.0  | 6144.8  | 9479.6  | 15087.4 | 19297.2 | 18492.6 | 18138.7 | 17747.8 | 11786.1 |
| 72.5° | 1501.9  | 1685.0  | 2517.8  | 3510.8  | 5621.9  | 10747.3 | 15664.9 | 15024.0 | 13055.5 | 12090.7 | 7491.7  |
| 75°   | 655.0   | 700.8   | 1243.0  | 1852.2  | 2635.8  | 5683.5  | 10328.2 | 9326.4  | 5896.6  | 5386.0  | 2998.5  |
| 77.5° | 399.7   | 429.6   | 651.5   | 993.0   | 1035.3  | 2165.7  | 5563.8  | 4069.0  | 1822.3  | 1607.5  | 813.4   |
| 80°   | 271.1   | 304.6   | 473.6   | 519.4   | 353.9   | 603.9   | 2088.2  | 1086.3  | 368.0   | 352.1   | 174.3   |
| 82.5° | 132.1   | 167.3   | 350.4   | 290.5   | 153.2   | 193.7   | 607.4   | 232.4   | 107.4   | 100.4   | 61.6    |
| 85°   | 19.4    | 33.5    | 197.2   | 190.2   | 68.7    | 45.8    | 107.4   | 58.1    | 37.0    | 35.2    | 28.2    |
| 87.5° | 0.0     | 0.0     | 66.9    | 29.9    | 7.0     | 7.0     | 12.3    | 12.3    | 14.1    | 12.3    | 14.1    |
| 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°    | 4562.0 | 4562.0 | 4562.0 | 4562.0 | 4562.0 | 4562.0 | 4562.0 | 4562.0 | 4562.0 | 4562.0 | 4562.0 |
| 2.5°  | 4597.2 | 4606.0 | 4572.5 | 4525.0 | 4473.9 | 4422.9 | 4350.7 | 4285.5 | 4246.8 | 4269.7 | 4213.3 |
| 5°    | 4679.9 | 4672.9 | 4584.8 | 4440.5 | 4248.6 | 4017.9 | 3789.0 | 3593.6 | 3530.2 | 3435.1 | 3424.5 |
| 7.5°  | 4794.4 | 4775.0 | 4588.4 | 4257.4 | 3824.2 | 3391.1 | 2968.5 | 2688.6 | 2528.4 | 2392.8 | 2396.3 |
| 10°   | 4954.6 | 4898.2 | 4547.9 | 3935.1 | 3222.1 | 2568.9 | 2030.1 | 1660.3 | 1500.1 | 1449.1 | 1408.6 |
| 12.5° | 5120.1 | 5010.9 | 4435.2 | 3500.3 | 2509.0 | 1755.4 | 1234.2 | 1008.9 | 910.3  | 878.6  | 875.1  |
| 15°   | 5268.0 | 5095.4 | 4238.0 | 2977.3 | 1824.1 | 1121.6 | 841.6  | 767.7  | 755.3  | 757.1  | 755.3  |
| 17.5° | 5414.1 | 5162.4 | 3965.1 | 2422.7 | 1239.5 | 804.6  | 723.6  | 706.0  | 711.3  | 718.4  | 716.6  |
| 20°   | 5535.6 | 5176.4 | 3616.5 | 1848.7 | 876.8  | 706.0  | 679.6  | 676.1  | 681.4  | 686.7  | 686.7  |
| 22.5° | 5667.7 | 5187.0 | 3202.7 | 1280.0 | 716.6  | 656.7  | 642.7  | 642.7  | 649.7  | 656.7  | 658.5  |
| 25°   | 5766.3 | 5128.9 | 2707.9 | 919.1  | 632.1  | 609.2  | 602.2  | 603.9  | 611.0  | 614.5  | 612.7  |
| 27.5° | 5782.1 | 4965.2 | 2183.3 | 704.3  | 574.0  | 551.1  | 544.1  | 551.1  | 542.3  | 547.6  | 544.1  |
| 30°   | 5796.2 | 4757.4 | 1651.5 | 593.4  | 521.2  | 486.0  | 475.4  | 464.8  | 457.8  | 449.0  | 447.2  |
| 32.5° | 5840.2 | 4512.7 | 1206.1 | 533.5  | 471.9  | 433.1  | 408.5  | 378.5  | 355.7  | 348.6  | 346.9  |
| 35°   | 5859.6 | 4218.6 | 885.6  | 486.0  | 427.8  | 385.6  | 341.6  | 299.3  | 265.9  | 253.5  | 262.3  |
| 37.5° | 5933.5 | 3933.4 | 686.7  | 450.7  | 389.1  | 336.3  | 280.0  | 227.1  | 195.4  | 188.4  | 191.9  |
| 40°   | 6085.0 | 3623.5 | 575.7  | 420.8  | 355.7  | 290.5  | 221.8  | 170.8  | 149.7  | 142.6  | 140.9  |
| 42.5° | 6327.9 | 3315.4 | 512.4  | 392.6  | 322.2  | 244.7  | 174.3  | 133.8  | 116.2  | 110.9  | 110.9  |
| 45°   | 6623.7 | 3019.6 | 468.3  | 362.7  | 287.0  | 197.2  | 137.3  | 107.4  | 96.8   | 93.3   | 93.3   |
| 47.5° | 7012.8 | 2760.8 | 431.4  | 332.8  | 248.3  | 156.7  | 110.9  | 93.3   | 86.3   | 88.0   | 89.8   |
| 50°   | 7407.2 | 2568.9 | 390.9  | 299.3  | 204.2  | 128.5  | 95.1   | 82.8   | 81.0   | 82.8   | 82.8   |
| 52.5° | 7704.8 | 2456.2 | 336.3  | 253.5  | 160.2  | 107.4  | 84.5   | 77.5   | 75.7   | 72.2   | 72.2   |
| 55°   | 8106.2 | 2431.5 | 267.6  | 206.0  | 126.8  | 89.8   | 75.7   | 70.4   | 65.1   | 61.6   | 59.9   |
| 57.5° | 8622.1 | 2459.7 | 206.0  | 160.2  | 98.6   | 73.9   | 66.9   | 58.1   | 51.1   | 44.0   | 44.0   |
| 60°   | 8942.6 | 2396.3 | 160.2  | 123.2  | 72.2   | 59.9   | 51.1   | 42.3   | 33.5   | 28.2   | 26.4   |
| 62.5° | 8840.4 | 2128.7 | 126.8  | 91.6   | 51.1   | 44.0   | 33.5   | 28.2   | 19.4   | 14.1   | 12.3   |
| 65°   | 8314.0 | 1718.4 | 102.1  | 63.4   | 37.0   | 26.4   | 17.6   | 17.6   | 8.8    | 1.8    | 0.0    |
| 67.5° | 7276.9 | 1273.0 | 81.0   | 42.3   | 21.1   | 12.3   | 8.8    | 5.3    | 0.0    | 0.0    | 0.0    |
| 70°   | 5923.0 | 919.1  | 63.4   | 26.4   | 12.3   | 8.8    | 3.5    | 1.8    | 0.0    | 0.0    | 0.0    |
| 72.5° | 3760.8 | 526.4  | 49.3   | 15.8   | 8.8    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1454.3 | 206.0  | 33.5   | 10.6   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 412.0  | 96.8   | 19.4   | 5.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 107.4  | 42.3   | 10.6   | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 51.1   | 17.6   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 29.9   | 7.0    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 14.1   | 1.8    | 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    |

(END OF REPORT)