

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: P457755

Luminaire Tested: **GALN-SA9A-760-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9A-760-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29853 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

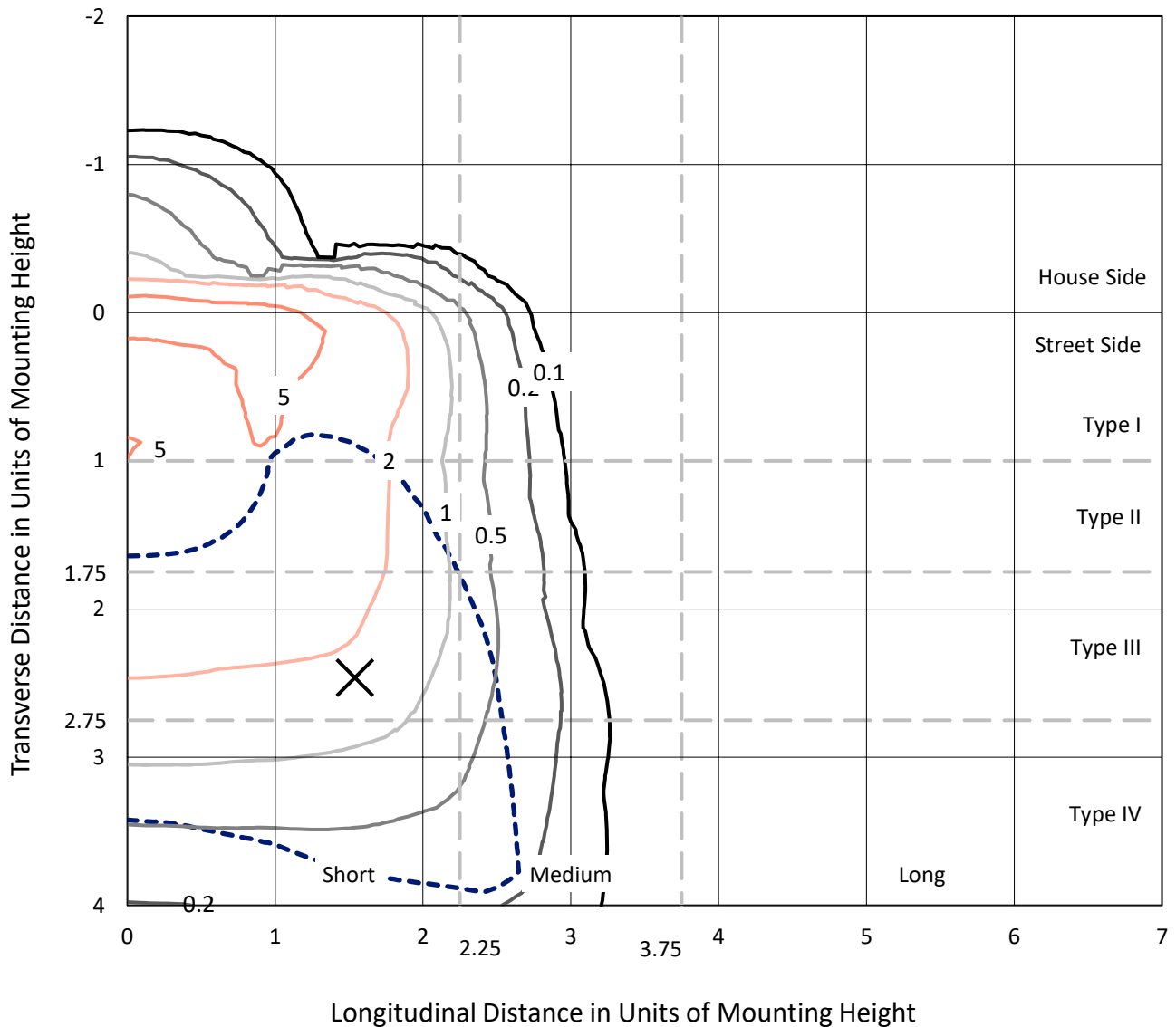
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

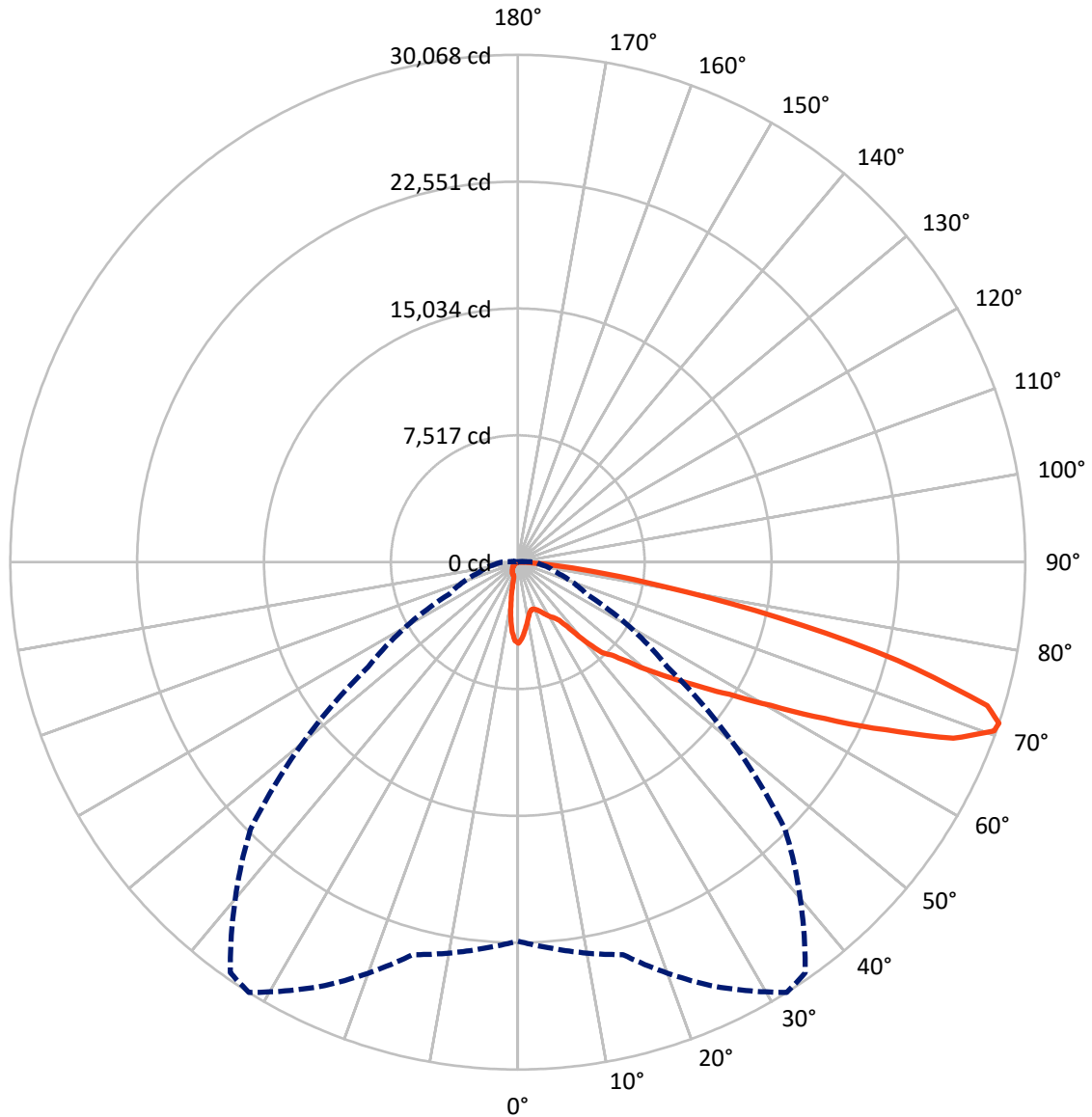
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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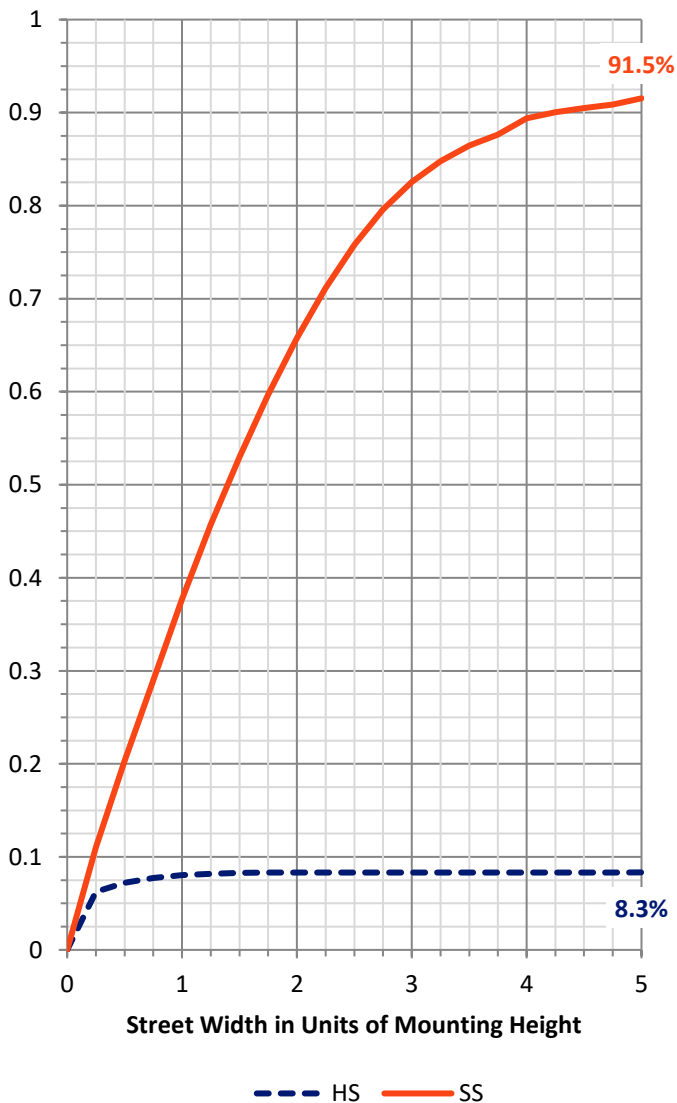
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2500.5   | 0.0    | 2500.5  |
|                    | % Fixture | 8.4      | 0.0    | 8.4     |
| <b>Street Side</b> | Lumens    | 27352.5  | 0.0    | 27352.5 |
|                    | % Fixture | 91.6     | 0.0    | 91.6    |
| <b>Total</b>       | Lumens    | 29853.0  | 0.0    | 29853.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 390.4   | 1.3       |
| 10°-20°   | 847.2   | 2.8       |
| 20°-30°   | 1318.0  | 4.4       |
| 30°-40°   | 2195.8  | 7.4       |
| 40°-50°   | 4084.6  | 13.7      |
| 50°-60°   | 6558.0  | 22.0      |
| 60°-70°   | 8820.8  | 29.5      |
| 70°-80°   | 5233.5  | 17.5      |
| 80°-90°   | 404.5   | 1.4       |
| 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°    | 29853.0 | 100.0     |
| 0°-180°   | 29853.0 | 100.0     |

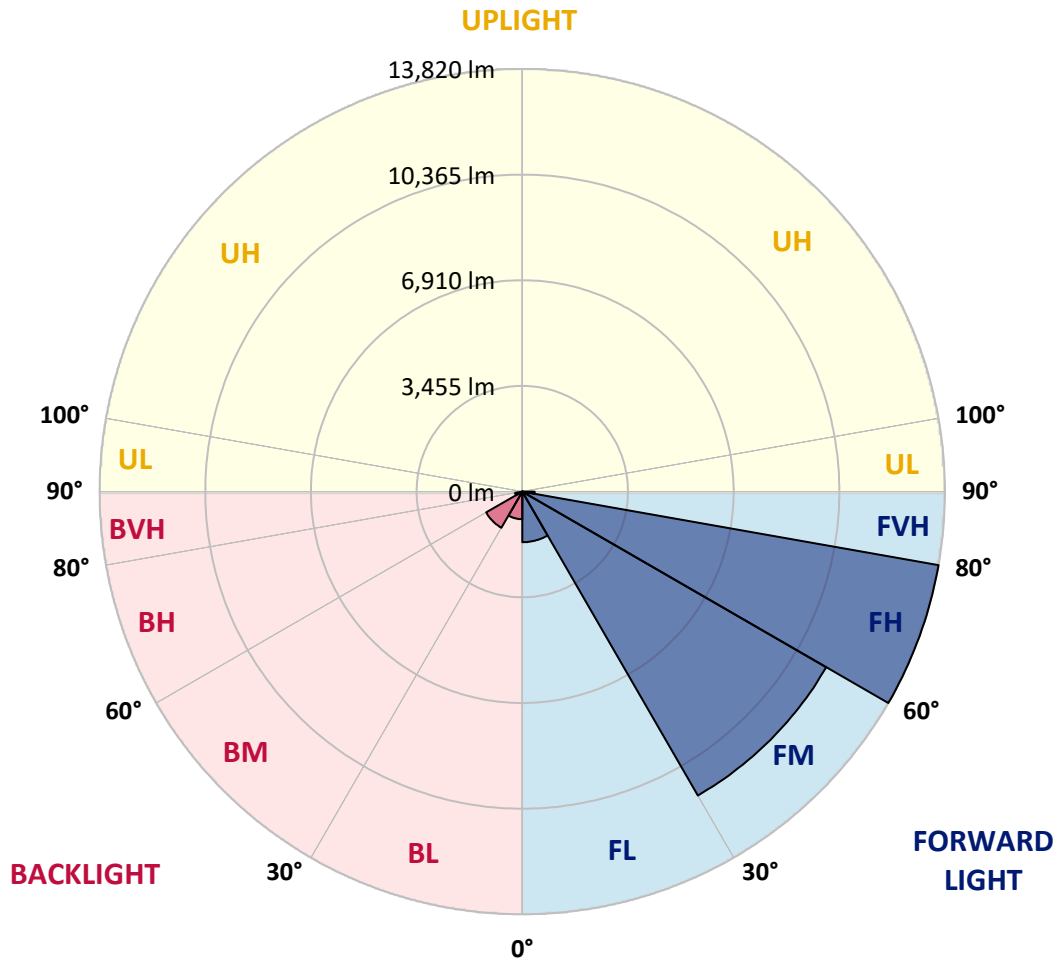


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1654.7  | 5.5       |                         |      |        |
| FM   | (30°-60°)   | 11474.4 | 38.4      |                         |      |        |
| FH   | (60°-80°)   | 13820.5 | 46.3      |                         |      | G5     |
| FVH  | (80°-90°)   | 403.0   | 1.3       |                         |      | G3/500 |
| BL   | (0°-30°)    | 901.0   | 3.0       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 1364.1  | 4.6       | B2/2500                 |      |        |
| BH   | (60°-80°)   | 233.9   | 0.8       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 1.6     | 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°     | 32°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4800.8  | 4800.8  | 4800.8  | 4800.8  | 4800.8  | 4800.8  | 4800.8  | 4800.8  | 4800.8  | 4800.8  | 4800.8  |
| 2.5°  | 4452.5  | 4498.3  | 4491.5  | 4507.5  | 4546.5  | 4562.5  | 4606.0  | 4654.2  | 4720.6  | 4766.5  | 4796.2  |
| 5°    | 3987.3  | 4021.7  | 4026.3  | 4106.5  | 4145.4  | 4189.0  | 4317.3  | 4457.1  | 4612.9  | 4736.7  | 4819.2  |
| 7.5°  | 3490.1  | 3508.4  | 3545.1  | 3650.5  | 3749.0  | 3792.5  | 3987.3  | 4230.2  | 4475.4  | 4706.9  | 4855.8  |
| 10°   | 3079.9  | 3100.5  | 3166.9  | 3279.2  | 3370.9  | 3428.2  | 3698.6  | 4003.4  | 4347.1  | 4690.8  | 4908.5  |
| 12.5° | 2846.1  | 2857.6  | 2882.8  | 2983.6  | 3100.5  | 3162.4  | 3453.4  | 3801.7  | 4244.0  | 4697.7  | 4997.9  |
| 15°   | 2830.1  | 2825.5  | 2795.7  | 2837.0  | 2942.4  | 3006.5  | 3290.7  | 3664.2  | 4152.3  | 4720.6  | 5103.3  |
| 17.5° | 2914.9  | 2903.4  | 2832.4  | 2832.4  | 2919.5  | 2972.2  | 3221.9  | 3590.9  | 4106.5  | 4773.3  | 5252.3  |
| 20°   | 3045.5  | 3027.2  | 2910.3  | 2901.1  | 2985.9  | 3040.9  | 3263.2  | 3595.5  | 4115.7  | 4871.9  | 5451.6  |
| 22.5° | 3210.5  | 3189.9  | 3013.4  | 3018.0  | 3109.7  | 3164.7  | 3382.3  | 3678.0  | 4172.9  | 4993.3  | 5664.7  |
| 25°   | 3425.9  | 3403.0  | 3194.4  | 3185.3  | 3281.5  | 3329.6  | 3558.8  | 3824.6  | 4253.1  | 5144.6  | 5944.3  |
| 27.5° | 3712.3  | 3664.2  | 3414.4  | 3400.7  | 3503.8  | 3565.7  | 3771.9  | 4021.7  | 4395.2  | 5353.1  | 6320.1  |
| 30°   | 3948.4  | 3895.7  | 3657.3  | 3620.7  | 3730.7  | 3778.8  | 3991.9  | 4287.5  | 4674.8  | 5717.5  | 6840.3  |
| 32.5° | 4257.7  | 4179.8  | 3900.2  | 3804.0  | 3920.9  | 3982.7  | 4310.4  | 4782.5  | 5089.6  | 6102.4  | 7459.0  |
| 35°   | 4954.4  | 4906.2  | 4564.8  | 4227.9  | 4221.1  | 4299.0  | 4780.2  | 5282.1  | 5515.8  | 6702.8  | 8302.3  |
| 37.5° | 5951.2  | 5916.8  | 5554.8  | 5103.3  | 4972.7  | 4936.0  | 5350.8  | 5832.0  | 6196.4  | 7527.8  | 9283.1  |
| 40°   | 7108.4  | 7028.2  | 6696.0  | 6313.3  | 6143.7  | 6036.0  | 6024.5  | 6650.1  | 7085.5  | 8648.4  | 10305.2 |
| 42.5° | 7938.0  | 7791.3  | 7388.0  | 7360.5  | 7323.8  | 7211.6  | 6886.2  | 7846.3  | 8233.6  | 9853.7  | 11398.2 |
| 45°   | 8808.8  | 8586.5  | 7986.1  | 7883.0  | 7869.2  | 7862.4  | 8187.8  | 9262.5  | 9484.8  | 11159.9 | 12521.1 |
| 47.5° | 9484.8  | 9308.3  | 8815.7  | 8769.8  | 8827.1  | 8982.9  | 9908.7  | 10765.8 | 10719.9 | 12324.0 | 13462.9 |
| 50°   | 10385.4 | 10252.5 | 9704.8  | 9791.9  | 10087.5 | 10341.8 | 11849.7 | 12404.2 | 11735.1 | 13240.7 | 14148.1 |
| 52.5° | 11448.7 | 11203.5 | 10694.7 | 10930.8 | 11384.5 | 11808.4 | 13909.8 | 13838.8 | 12447.8 | 13930.4 | 14659.1 |
| 55°   | 12369.9 | 12195.7 | 12021.6 | 12266.7 | 12945.1 | 13474.4 | 15770.6 | 14913.5 | 12965.7 | 14485.0 | 14883.7 |
| 57.5° | 13928.1 | 13886.9 | 13708.1 | 13957.9 | 14780.6 | 15330.6 | 17436.5 | 15747.6 | 13298.0 | 14773.7 | 14620.2 |
| 60°   | 16233.4 | 16167.0 | 15834.7 | 16153.2 | 17225.7 | 18089.6 | 18971.9 | 16497.0 | 13373.6 | 14661.4 | 13861.7 |
| 62.5° | 19006.2 | 18779.4 | 18495.2 | 18965.0 | 20436.2 | 20816.6 | 20417.8 | 16941.5 | 13091.7 | 13767.7 | 12033.0 |
| 65°   | 21595.7 | 21362.0 | 21368.8 | 22358.8 | 23960.6 | 24219.6 | 22104.4 | 16875.1 | 12266.7 | 11528.9 | 8875.2  |
| 67.5° | 23577.9 | 23539.0 | 23818.5 | 25750.3 | 27844.8 | 27666.1 | 23612.3 | 15880.5 | 9821.6  | 7472.8  | 4716.0  |
| 70°   | 23678.7 | 23754.4 | 24556.4 | 27817.3 | 29943.9 | 29659.7 | 23484.0 | 12908.4 | 6123.1  | 3437.3  | 1858.5  |
| 71°   | 22459.6 | 22968.4 | 24077.5 | 27753.1 | 30067.6 | 29698.7 | 22402.3 | 10811.6 | 4491.5  | 2397.0  | 1340.6  |
| 72.5° | 19139.2 | 19407.3 | 21804.2 | 26119.3 | 29089.1 | 28300.8 | 19659.3 | 7578.2  | 2875.9  | 1466.6  | 770.0   |
| 75°   | 10541.2 | 11201.2 | 14601.9 | 20491.2 | 23266.3 | 22574.2 | 12812.1 | 3600.0  | 1434.5  | 802.0   | 318.5   |
| 77.5° | 5018.5  | 4890.2  | 7124.5  | 12186.5 | 15775.1 | 15738.5 | 6455.3  | 1599.5  | 836.4   | 543.1   | 160.4   |
| 80°   | 1434.5  | 1613.3  | 2727.0  | 5793.1  | 8758.4  | 8854.6  | 2479.5  | 772.3   | 579.8   | 423.9   | 82.5    |
| 82.5° | 433.1   | 442.3   | 1001.4  | 2562.0  | 4356.3  | 4106.5  | 930.4   | 394.1   | 417.1   | 336.9   | 48.1    |
| 85°   | 75.6    | 94.0    | 295.6   | 902.9   | 1661.4  | 1260.4  | 233.7   | 187.9   | 275.0   | 222.3   | 27.5    |
| 87.5° | 4.6     | 6.9     | 98.5    | 103.1   | 146.7   | 84.8    | 41.2    | 27.5    | 59.6    | 59.6    | 16.0    |
| 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°    | 4800.8  | 4800.8 | 4800.8 | 4800.8 | 4800.8 | 4800.8 | 4800.8 | 4800.8 | 4800.8 | 4800.8 | 4800.8 |
| 2.5°  | 4816.9  | 4830.6 | 4821.5 | 4800.8 | 4766.5 | 4725.2 | 4670.2 | 4624.4 | 4585.4 | 4564.8 | 4590.0 |
| 5°    | 4846.7  | 4865.0 | 4819.2 | 4716.0 | 4560.2 | 4390.6 | 4198.1 | 4049.2 | 3932.3 | 3895.7 | 3881.9 |
| 7.5°  | 4892.5  | 4903.9 | 4780.2 | 4551.0 | 4221.1 | 3820.0 | 3469.4 | 3173.8 | 2944.7 | 2875.9 | 2775.1 |
| 10°   | 4952.1  | 4945.2 | 4711.5 | 4285.2 | 3705.5 | 3102.8 | 2559.7 | 2156.4 | 1851.6 | 1741.6 | 1732.4 |
| 12.5° | 5043.7  | 5007.1 | 4624.4 | 3923.2 | 3091.3 | 2303.0 | 1631.6 | 1276.4 | 1083.9 | 1019.7 | 1006.0 |
| 15°   | 5158.3  | 5071.2 | 4486.9 | 3499.2 | 2367.2 | 1487.2 | 1006.0 | 898.3  | 873.1  | 868.5  | 863.9  |
| 17.5° | 5293.5  | 5156.0 | 4305.9 | 2979.0 | 1663.7 | 964.7  | 841.0  | 838.7  | 841.0  | 836.4  | 834.1  |
| 20°   | 5476.8  | 5245.4 | 4090.4 | 2362.6 | 1100.0 | 813.5  | 802.0  | 802.0  | 804.3  | 802.0  | 802.0  |
| 22.5° | 5671.6  | 5350.8 | 3824.6 | 1803.5 | 829.5  | 772.3  | 770.0  | 774.5  | 779.1  | 776.8  | 776.8  |
| 25°   | 5912.2  | 5488.3 | 3474.0 | 1235.2 | 742.5  | 737.9  | 740.2  | 749.3  | 758.5  | 760.8  | 758.5  |
| 27.5° | 6260.6  | 5657.9 | 3098.2 | 850.2  | 680.6  | 685.2  | 708.1  | 731.0  | 744.8  | 747.1  | 747.1  |
| 30°   | 6652.4  | 5845.8 | 2607.8 | 689.8  | 630.2  | 630.2  | 657.7  | 701.2  | 731.0  | 735.6  | 737.9  |
| 32.5° | 7156.6  | 6063.5 | 2064.7 | 621.0  | 582.1  | 577.5  | 602.7  | 655.4  | 710.4  | 726.4  | 726.4  |
| 35°   | 7779.9  | 6320.1 | 1535.3 | 577.5  | 547.7  | 536.2  | 550.0  | 593.5  | 664.6  | 710.4  | 715.0  |
| 37.5° | 8510.9  | 6563.0 | 1122.9 | 538.5  | 515.6  | 499.6  | 508.7  | 543.1  | 600.4  | 669.1  | 687.5  |
| 40°   | 9186.9  | 6778.4 | 838.7  | 506.4  | 483.5  | 472.1  | 478.9  | 495.0  | 543.1  | 607.3  | 618.7  |
| 42.5° | 9924.8  | 6945.7 | 666.8  | 472.1  | 451.4  | 446.9  | 446.9  | 453.7  | 485.8  | 522.5  | 524.8  |
| 45°   | 10660.4 | 7005.3 | 559.1  | 430.8  | 417.1  | 421.6  | 419.4  | 414.8  | 428.5  | 423.9  | 423.9  |
| 47.5° | 11185.1 | 6934.3 | 462.9  | 391.9  | 391.9  | 398.7  | 387.3  | 371.2  | 364.4  | 336.9  | 339.2  |
| 50°   | 11544.9 | 6675.3 | 380.4  | 346.0  | 364.4  | 373.5  | 350.6  | 325.4  | 300.2  | 270.4  | 263.5  |
| 52.5° | 11693.9 | 6214.7 | 311.7  | 286.4  | 323.1  | 334.6  | 307.1  | 277.3  | 238.3  | 213.1  | 206.2  |
| 55°   | 11597.6 | 5646.4 | 258.9  | 233.7  | 272.7  | 286.4  | 258.9  | 224.6  | 181.0  | 153.5  | 149.0  |
| 57.5° | 11173.7 | 4968.1 | 220.0  | 185.6  | 217.7  | 226.9  | 208.5  | 171.9  | 128.3  | 100.8  | 100.8  |
| 60°   | 10440.4 | 4266.9 | 178.7  | 146.7  | 162.7  | 176.5  | 158.1  | 123.7  | 87.1   | 61.9   | 57.3   |
| 62.5° | 8953.1  | 3464.8 | 144.4  | 114.6  | 114.6  | 126.0  | 110.0  | 89.4   | 55.0   | 32.1   | 29.8   |
| 65°   | 6464.5  | 2376.4 | 114.6  | 84.8   | 82.5   | 82.5   | 68.7   | 59.6   | 32.1   | 13.7   | 9.2    |
| 67.5° | 3513.0  | 1340.6 | 91.7   | 64.2   | 57.3   | 55.0   | 43.5   | 34.4   | 13.7   | 2.3    | 0.0    |
| 70°   | 1381.8  | 515.6  | 71.0   | 43.5   | 36.7   | 34.4   | 22.9   | 16.0   | 9.2    | 0.0    | 0.0    |
| 71°   | 937.3   | 355.2  | 61.9   | 36.7   | 29.8   | 25.2   | 18.3   | 13.7   | 6.9    | 0.0    | 0.0    |
| 72.5° | 536.2   | 220.0  | 48.1   | 27.5   | 22.9   | 18.3   | 13.7   | 9.2    | 6.9    | 0.0    | 0.0    |
| 75°   | 233.7   | 112.3  | 29.8   | 20.6   | 16.0   | 11.5   | 9.2    | 6.9    | 2.3    | 0.0    | 0.0    |
| 77.5° | 119.2   | 61.9   | 20.6   | 16.0   | 9.2    | 6.9    | 4.6    | 2.3    | 0.0    | 0.0    | 0.0    |
| 80°   | 66.5    | 32.1   | 13.7   | 9.2    | 6.9    | 4.6    | 2.3    | 2.3    | 0.0    | 0.0    | 0.0    |
| 82.5° | 36.7    | 18.3   | 6.9    | 4.6    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 22.9    | 11.5   | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 11.5    | 4.6    | 0.0    | 0.0    | 0.0    | 0.0    | 2.3    | 2.3    | 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)