

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: P454807

Luminaire Tested: **GALN-SA6A-722-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454807  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-722-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16315 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

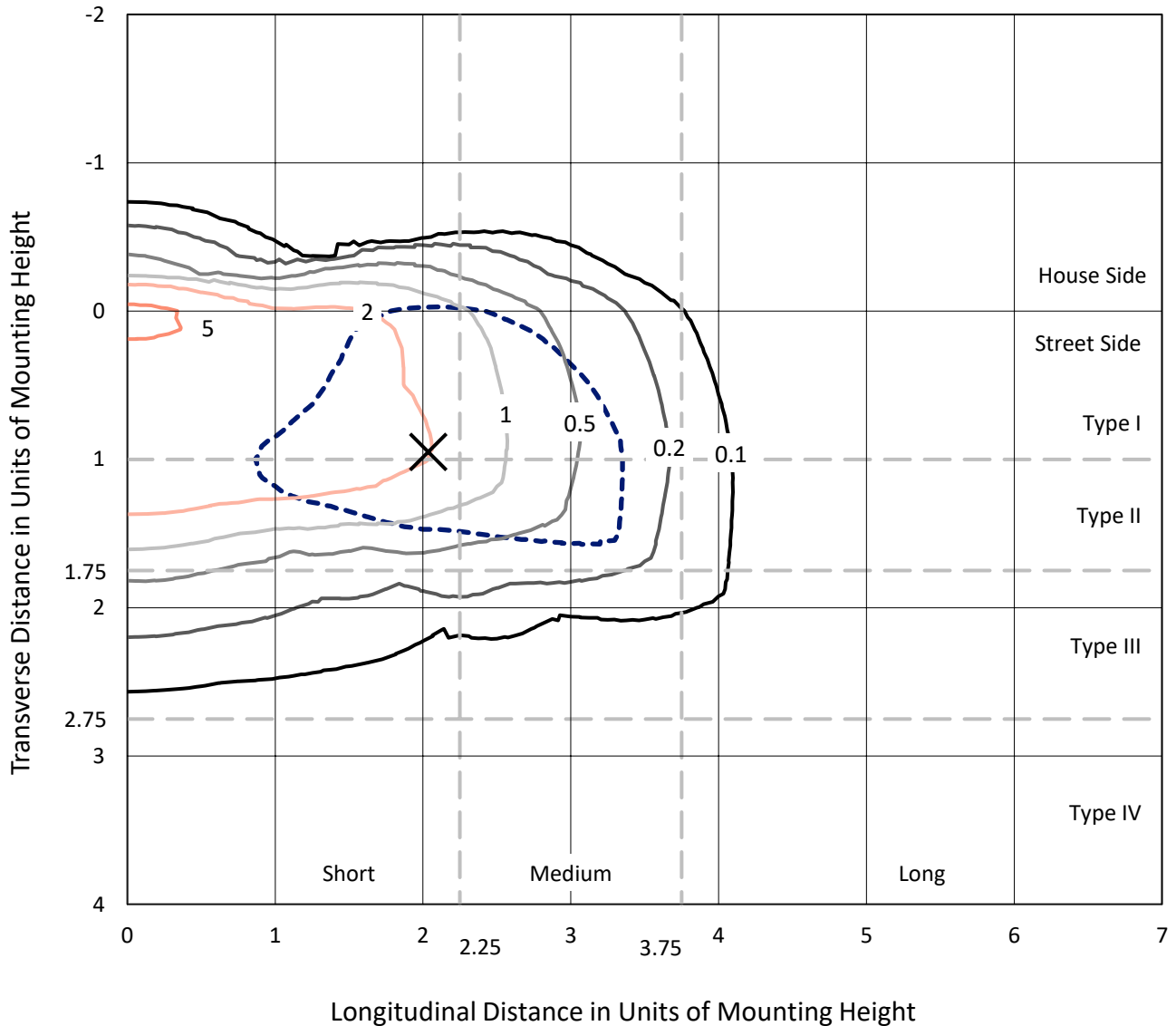
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

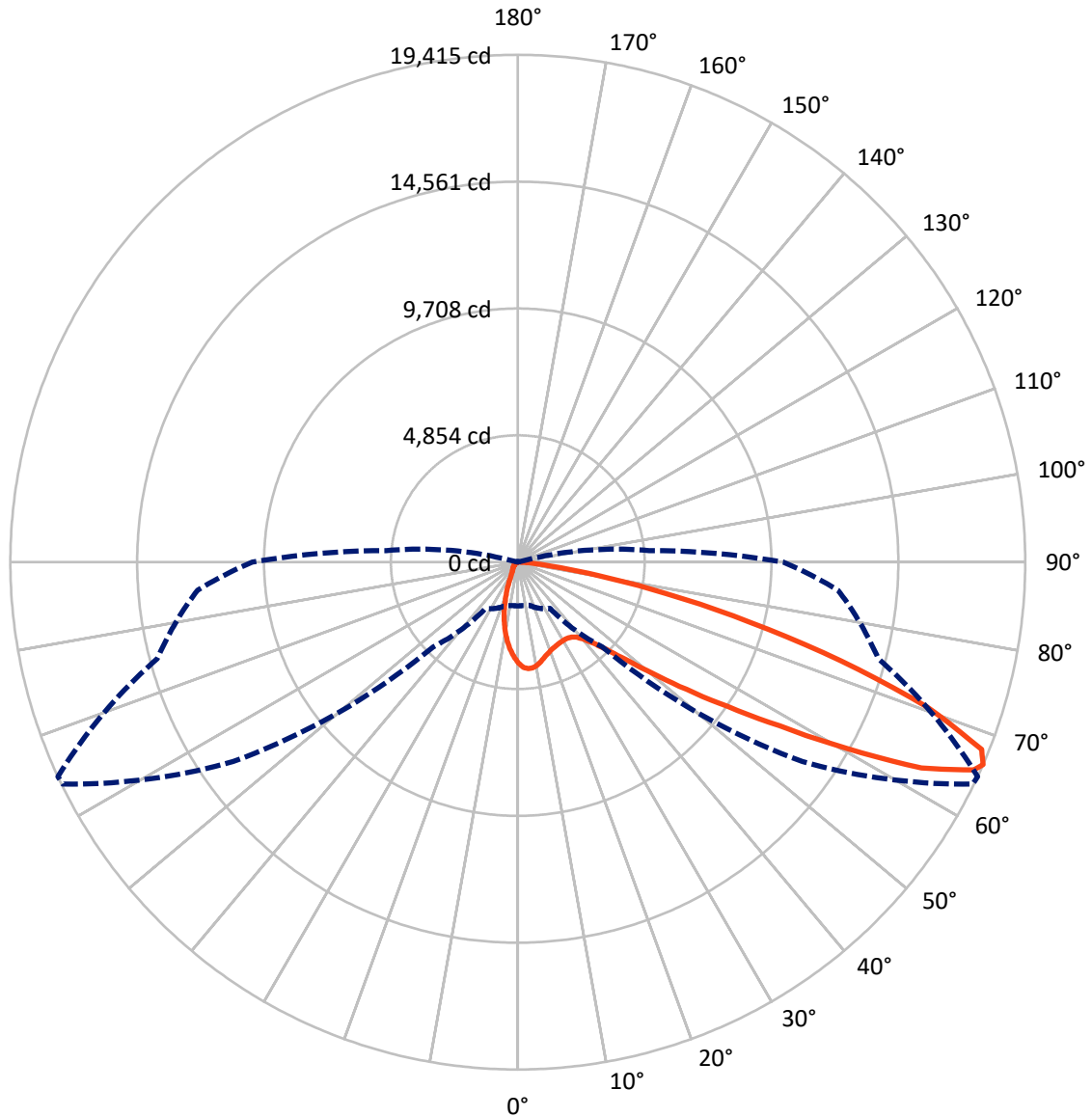
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1687.2   | 0.0    | 1687.2  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 14627.8  | 0.0    | 14627.8 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 16315.0  | 0.0    | 16315.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 316.4   | 1.9       |
| 10°-20°   | 689.4   | 4.2       |
| 20°-30°   | 987.6   | 6.1       |
| 30°-40°   | 1442.5  | 8.8       |
| 40°-50°   | 2418.8  | 14.8      |
| 50°-60°   | 4036.6  | 24.7      |
| 60°-70°   | 4284.7  | 26.3      |
| 70°-80°   | 1940.5  | 11.9      |
| 80°-90°   | 198.5   | 1.2       |
| 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°    | 16315.0 | 100.0     |
| 0°-180°   | 16315.0 | 100.0     |



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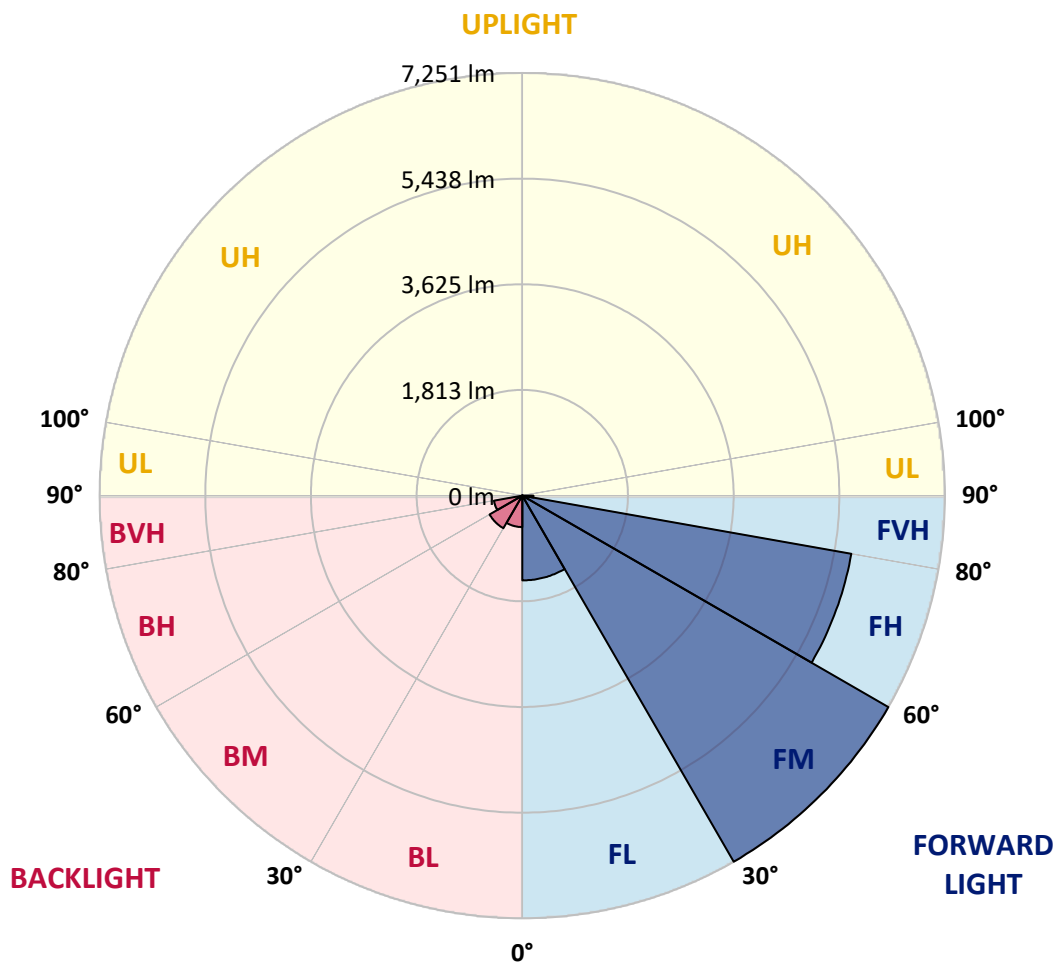
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1453.7 | 8.9       |                         |      |         |
| FM (30°-60°)   | 7250.8 | 44.4      |                         |      |         |
| FH (60°-80°)   | 5731.1 | 35.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 192.2  | 1.2       |                         |      | G2/225  |
| BL (0°-30°)    | 539.7  | 3.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 647.1  | 4.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 494.1  | 3.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 6.3    | 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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 3868.9 | 3868.9 | 3868.9 | 3868.9 | 3868.9 | 3868.9  | 3868.9  | 3868.9  | 3868.9  | 3868.9  | 3868.9  |
| 2.5°  | 4077.2 | 4081.6 | 4087.1 | 4094.8 | 4100.3 | 4083.8  | 4060.6  | 4034.2  | 4028.7  | 3972.5  | 3904.2  |
| 5°    | 3859.0 | 3865.6 | 3914.1 | 3940.5 | 4000.0 | 4054.0  | 4088.2  | 4092.6  | 4090.4  | 4037.5  | 3928.4  |
| 7.5°  | 3548.2 | 3567.0 | 3614.3 | 3660.6 | 3771.9 | 3874.4  | 3995.6  | 4080.5  | 4086.0  | 4071.6  | 3936.1  |
| 10°   | 3295.9 | 3308.0 | 3332.2 | 3423.7 | 3516.3 | 3672.7  | 3842.4  | 4002.2  | 4015.4  | 4072.7  | 3929.5  |
| 12.5° | 3098.6 | 3116.3 | 3146.0 | 3216.5 | 3327.8 | 3475.5  | 3668.3  | 3883.2  | 3910.8  | 4051.8  | 3910.8  |
| 15°   | 2960.9 | 2969.7 | 2999.5 | 3068.9 | 3176.9 | 3313.5  | 3508.6  | 3758.7  | 3782.9  | 4024.3  | 3907.5  |
| 17.5° | 2895.9 | 2905.8 | 2926.7 | 2981.8 | 3071.1 | 3197.8  | 3388.4  | 3658.4  | 3689.3  | 4006.6  | 3919.6  |
| 20°   | 2913.5 | 2922.3 | 2923.4 | 2952.1 | 3012.7 | 3119.6  | 3300.3  | 3564.8  | 3604.4  | 3995.6  | 3939.4  |
| 22.5° | 3013.8 | 3014.9 | 3001.7 | 2988.4 | 3009.4 | 3086.5  | 3246.3  | 3505.3  | 3546.0  | 3993.4  | 3962.6  |
| 25°   | 3163.7 | 3167.0 | 3144.9 | 3098.6 | 3056.8 | 3096.4  | 3234.2  | 3466.7  | 3503.0  | 3987.9  | 3976.9  |
| 27.5° | 3370.8 | 3369.7 | 3363.1 | 3286.0 | 3167.0 | 3140.5  | 3244.1  | 3445.7  | 3476.6  | 3972.5  | 3982.4  |
| 30°   | 3660.6 | 3651.8 | 3637.5 | 3550.4 | 3368.6 | 3247.4  | 3286.0  | 3432.5  | 3461.2  | 3950.4  | 3968.1  |
| 32.5° | 3946.0 | 3979.1 | 3976.9 | 3894.2 | 3667.2 | 3438.0  | 3373.0  | 3450.2  | 3471.1  | 3936.1  | 3947.1  |
| 35°   | 4278.8 | 4277.7 | 4362.6 | 4331.7 | 4066.1 | 3681.6  | 3521.8  | 3508.6  | 3525.1  | 3946.0  | 3937.2  |
| 37.5° | 4587.3 | 4616.0 | 4748.2 | 4780.2 | 4537.8 | 4025.4  | 3732.2  | 3634.2  | 3639.7  | 4013.2  | 3961.5  |
| 40°   | 4971.9 | 5027.0 | 5224.3 | 5331.2 | 5117.4 | 4535.6  | 4043.0  | 3864.5  | 3865.6  | 4178.5  | 4052.9  |
| 42.5° | 5467.8 | 5554.8 | 5738.9 | 5917.4 | 5802.8 | 5139.4  | 4509.1  | 4229.2  | 4227.0  | 4469.4  | 4262.3  |
| 45°   | 6070.6 | 6131.2 | 6340.5 | 6623.7 | 6551.0 | 5982.4  | 5187.9  | 4794.5  | 4765.9  | 4946.6  | 4633.6  |
| 47.5° | 6590.7 | 6673.3 | 6886.0 | 7208.8 | 7539.4 | 7011.6  | 5998.9  | 5571.4  | 5552.6  | 5705.8  | 5270.5  |
| 50°   | 6817.7 | 6890.4 | 7114.1 | 7567.0 | 8368.1 | 8362.6  | 7206.6  | 6705.3  | 6673.3  | 6756.0  | 6255.7  |
| 52.5° | 6568.6 | 6636.9 | 6862.8 | 7427.0 | 8758.2 | 10008.9 | 8956.5  | 8127.9  | 8089.3  | 7983.5  | 7432.5  |
| 55°   | 5715.7 | 5771.9 | 6105.8 | 6753.7 | 8608.3 | 11106.4 | 11367.5 | 9885.4  | 9735.6  | 9324.6  | 8764.8  |
| 57.5° | 4551.0 | 4522.3 | 4729.5 | 5482.1 | 7729.0 | 11474.4 | 13842.5 | 12075.0 | 11807.2 | 10483.8 | 9892.1  |
| 60°   | 3153.7 | 3241.9 | 3325.6 | 3821.5 | 5811.6 | 10836.4 | 15381.9 | 14827.6 | 14475.0 | 11624.3 | 10972.0 |
| 62.5° | 2318.5 | 2376.9 | 2432.0 | 2661.2 | 3654.0 | 8652.4  | 15654.1 | 17655.2 | 17342.2 | 12835.3 | 12002.3 |
| 65°   | 1833.6 | 1838.0 | 1860.1 | 2086.0 | 2407.7 | 5626.5  | 14346.1 | 19249.7 | 19169.2 | 14001.2 | 12419.9 |
| 66°   | 1670.5 | 1671.6 | 1705.8 | 1948.2 | 2160.9 | 4581.8  | 13298.1 | 19370.9 | 19415.0 | 14281.1 | 12297.6 |
| 67.5° | 1460.1 | 1455.7 | 1505.2 | 1751.0 | 1968.1 | 3303.6  | 11422.6 | 18879.4 | 19140.6 | 14495.9 | 11857.9 |
| 70°   | 1131.7 | 1126.2 | 1186.8 | 1468.9 | 1812.7 | 2203.9  | 7592.3  | 16210.5 | 16631.5 | 14056.3 | 10491.5 |
| 72.5° | 753.7  | 758.1  | 861.7  | 1159.2 | 1730.0 | 1940.5  | 4567.5  | 12331.7 | 12926.8 | 11607.8 | 8253.5  |
| 75°   | 439.7  | 447.4  | 565.3  | 861.7  | 1501.9 | 1850.1  | 2585.1  | 8793.4  | 9173.6  | 8015.5  | 5141.6  |
| 77.5° | 230.3  | 233.6  | 316.3  | 568.6  | 1151.5 | 1717.9  | 1722.3  | 5617.7  | 5796.2  | 3895.3  | 2035.3  |
| 80°   | 122.3  | 119.0  | 169.7  | 342.7  | 792.3  | 1508.5  | 1397.3  | 2974.1  | 3092.0  | 1157.0  | 514.6   |
| 82.5° | 46.3   | 50.7   | 90.4   | 224.8  | 468.3  | 1083.2  | 1203.3  | 1314.6  | 1273.8  | 254.5   | 216.0   |
| 85°   | 8.8    | 11.0   | 38.6   | 133.3  | 235.8  | 452.9   | 887.1   | 644.6   | 597.2   | 95.9    | 124.5   |
| 87.5° | 1.1    | 2.2    | 11.0   | 32.0   | 34.2   | 153.2   | 262.3   | 178.5   | 154.3   | 35.3    | 51.8    |
| 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°    | 3868.9  | 3868.9 | 3868.9 | 3868.9 | 3868.9 | 3868.9 | 3868.9 | 3868.9 | 3868.9 | 3868.9 | 3868.9 |
| 2.5°  | 3871.1  | 3841.3 | 3742.2 | 3644.1 | 3543.8 | 3453.5 | 3391.8 | 3291.5 | 3266.1 | 3229.8 | 3208.8 |
| 5°    | 3863.4  | 3794.0 | 3603.3 | 3395.1 | 3201.1 | 2991.7 | 2832.0 | 2677.7 | 2595.1 | 2553.2 | 2537.8 |
| 7.5°  | 3841.3  | 3731.1 | 3433.6 | 3107.5 | 2796.7 | 2483.8 | 2211.6 | 2004.4 | 1871.1 | 1779.6 | 1717.9 |
| 10°   | 3797.3  | 3645.2 | 3236.4 | 2787.9 | 2318.5 | 1905.2 | 1560.3 | 1298.1 | 1095.3 | 1031.4 | 1033.6 |
| 12.5° | 3752.1  | 3549.3 | 3016.0 | 2433.1 | 1851.2 | 1330.0 | 964.2  | 757.0  | 660.1  | 628.1  | 621.5  |
| 15°   | 3710.2  | 3457.9 | 2800.0 | 2089.3 | 1378.5 | 861.7  | 621.5  | 548.8  | 522.3  | 516.8  | 515.7  |
| 17.5° | 3688.2  | 3373.0 | 2569.7 | 1695.9 | 962.0  | 585.1  | 498.1  | 478.2  | 470.5  | 465.0  | 462.8  |
| 20°   | 3669.4  | 3299.2 | 2349.3 | 1327.8 | 657.9  | 479.3  | 446.3  | 427.6  | 414.3  | 408.8  | 405.5  |
| 22.5° | 3656.2  | 3223.2 | 2121.2 | 1028.1 | 503.6  | 425.3  | 395.6  | 371.4  | 352.6  | 346.0  | 341.6  |
| 25°   | 3636.4  | 3139.4 | 1890.9 | 751.5  | 424.2  | 378.0  | 343.8  | 315.2  | 290.9  | 278.8  | 276.6  |
| 27.5° | 3607.7  | 3044.6 | 1638.6 | 556.5  | 379.1  | 336.1  | 294.2  | 259.0  | 234.7  | 221.5  | 222.6  |
| 30°   | 3561.4  | 2945.5 | 1386.2 | 441.9  | 342.7  | 293.1  | 247.9  | 213.8  | 190.6  | 180.7  | 179.6  |
| 32.5° | 3506.4  | 2825.4 | 1154.8 | 379.1  | 309.6  | 254.5  | 207.2  | 177.4  | 159.8  | 152.1  | 151.0  |
| 35°   | 3454.6  | 2704.1 | 919.0  | 340.5  | 275.5  | 219.3  | 174.1  | 148.8  | 135.5  | 128.9  | 130.0  |
| 37.5° | 3425.9  | 2596.2 | 716.3  | 309.6  | 247.9  | 188.4  | 149.9  | 127.8  | 115.7  | 110.2  | 109.1  |
| 40°   | 3444.6  | 2508.0 | 569.7  | 282.1  | 217.1  | 162.0  | 128.9  | 110.2  | 98.1   | 90.4   | 90.4   |
| 42.5° | 3532.8  | 2469.4 | 459.5  | 255.6  | 188.4  | 139.9  | 112.4  | 94.8   | 81.5   | 73.8   | 74.9   |
| 45°   | 3801.7  | 2510.2 | 384.6  | 231.4  | 162.0  | 121.2  | 97.0   | 78.2   | 66.1   | 60.6   | 59.5   |
| 47.5° | 4248.0  | 2663.4 | 332.8  | 206.1  | 138.8  | 103.6  | 81.5   | 65.0   | 52.9   | 48.5   | 47.4   |
| 50°   | 5028.1  | 2979.6 | 294.2  | 180.7  | 117.9  | 88.2   | 67.2   | 51.8   | 41.9   | 37.5   | 37.5   |
| 52.5° | 6101.4  | 3669.4 | 266.7  | 152.1  | 99.2   | 74.9   | 55.1   | 41.9   | 33.1   | 29.8   | 28.7   |
| 55°   | 7223.2  | 4396.7 | 252.3  | 127.8  | 82.6   | 61.7   | 44.1   | 33.1   | 25.3   | 22.0   | 20.9   |
| 57.5° | 8302.0  | 4967.5 | 235.8  | 103.6  | 66.1   | 47.4   | 34.2   | 25.3   | 17.6   | 15.4   | 14.3   |
| 60°   | 9336.7  | 5429.2 | 200.6  | 82.6   | 51.8   | 34.2   | 25.3   | 17.6   | 12.1   | 9.9    | 9.9    |
| 62.5° | 10262.3 | 5698.1 | 157.6  | 66.1   | 39.7   | 24.2   | 16.5   | 13.2   | 8.8    | 6.6    | 6.6    |
| 65°   | 10370.3 | 5348.8 | 119.0  | 50.7   | 28.7   | 15.4   | 9.9    | 9.9    | 6.6    | 4.4    | 4.4    |
| 66°   | 10153.2 | 5052.4 | 104.7  | 46.3   | 25.3   | 13.2   | 8.8    | 7.7    | 5.5    | 3.3    | 3.3    |
| 67.5° | 9668.4  | 4546.6 | 90.4   | 39.7   | 20.9   | 9.9    | 6.6    | 6.6    | 4.4    | 2.2    | 2.2    |
| 70°   | 8353.8  | 3713.5 | 71.6   | 29.8   | 15.4   | 7.7    | 4.4    | 4.4    | 3.3    | 2.2    | 2.2    |
| 72.5° | 6367.0  | 2772.5 | 58.4   | 22.0   | 11.0   | 5.5    | 3.3    | 3.3    | 3.3    | 2.2    | 2.2    |
| 75°   | 3840.2  | 1493.1 | 45.2   | 16.5   | 9.9    | 4.4    | 2.2    | 3.3    | 4.4    | 3.3    | 2.2    |
| 77.5° | 1414.9  | 508.0  | 35.3   | 13.2   | 7.7    | 4.4    | 2.2    | 2.2    | 4.4    | 3.3    | 3.3    |
| 80°   | 347.1   | 132.2  | 25.3   | 11.0   | 7.7    | 4.4    | 2.2    | 2.2    | 4.4    | 4.4    | 4.4    |
| 82.5° | 160.9   | 56.2   | 17.6   | 9.9    | 7.7    | 4.4    | 2.2    | 2.2    | 3.3    | 4.4    | 4.4    |
| 85°   | 92.6    | 26.4   | 14.3   | 11.0   | 7.7    | 4.4    | 2.2    | 2.2    | 3.3    | 4.4    | 4.4    |
| 87.5° | 37.5    | 13.2   | 13.2   | 11.0   | 8.8    | 5.5    | 2.2    | 2.2    | 2.2    | 3.3    | 3.3    |
| 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)