

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: P455611

Luminaire Tested: **GALN-SA6D-740-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33185 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

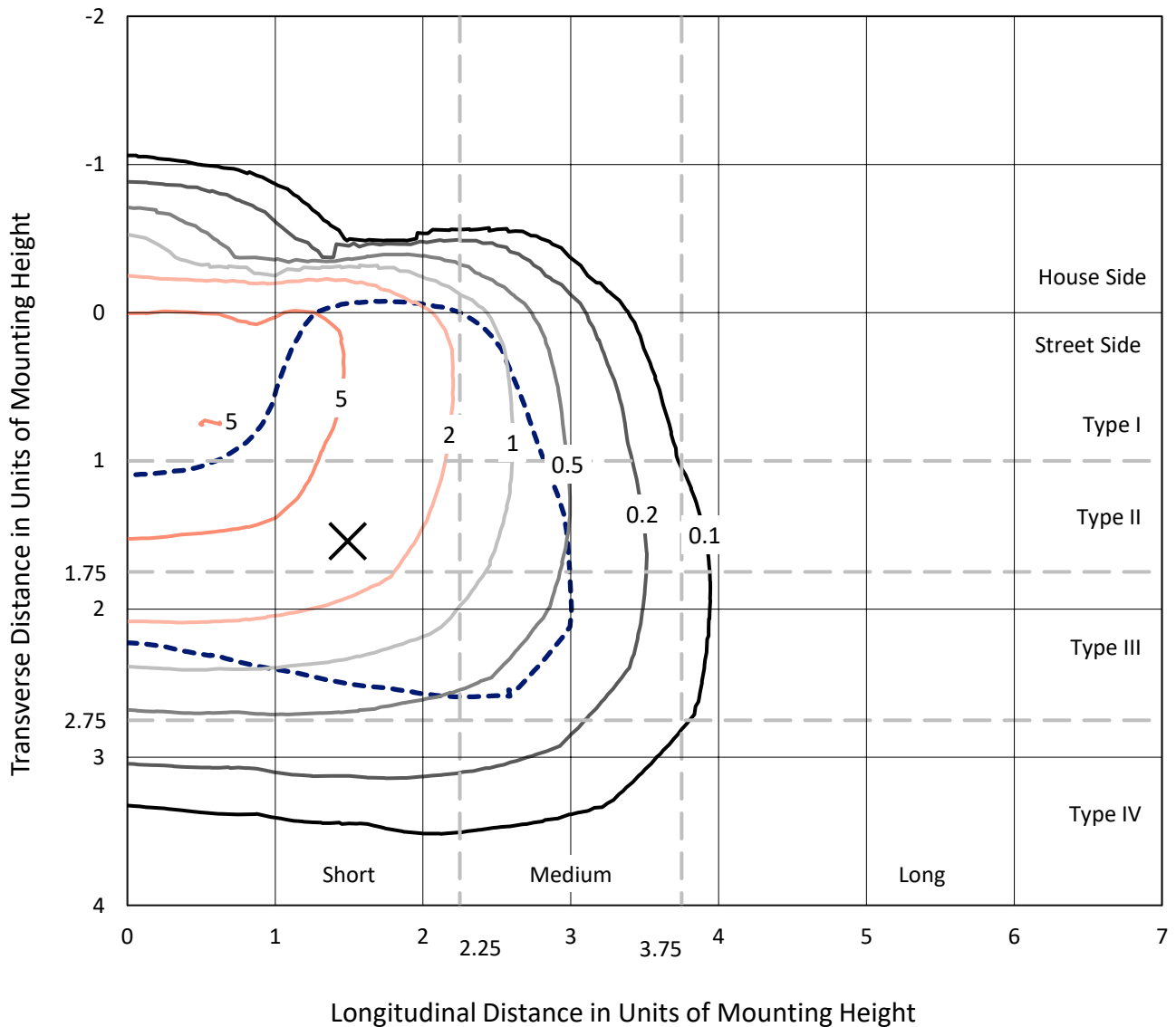
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

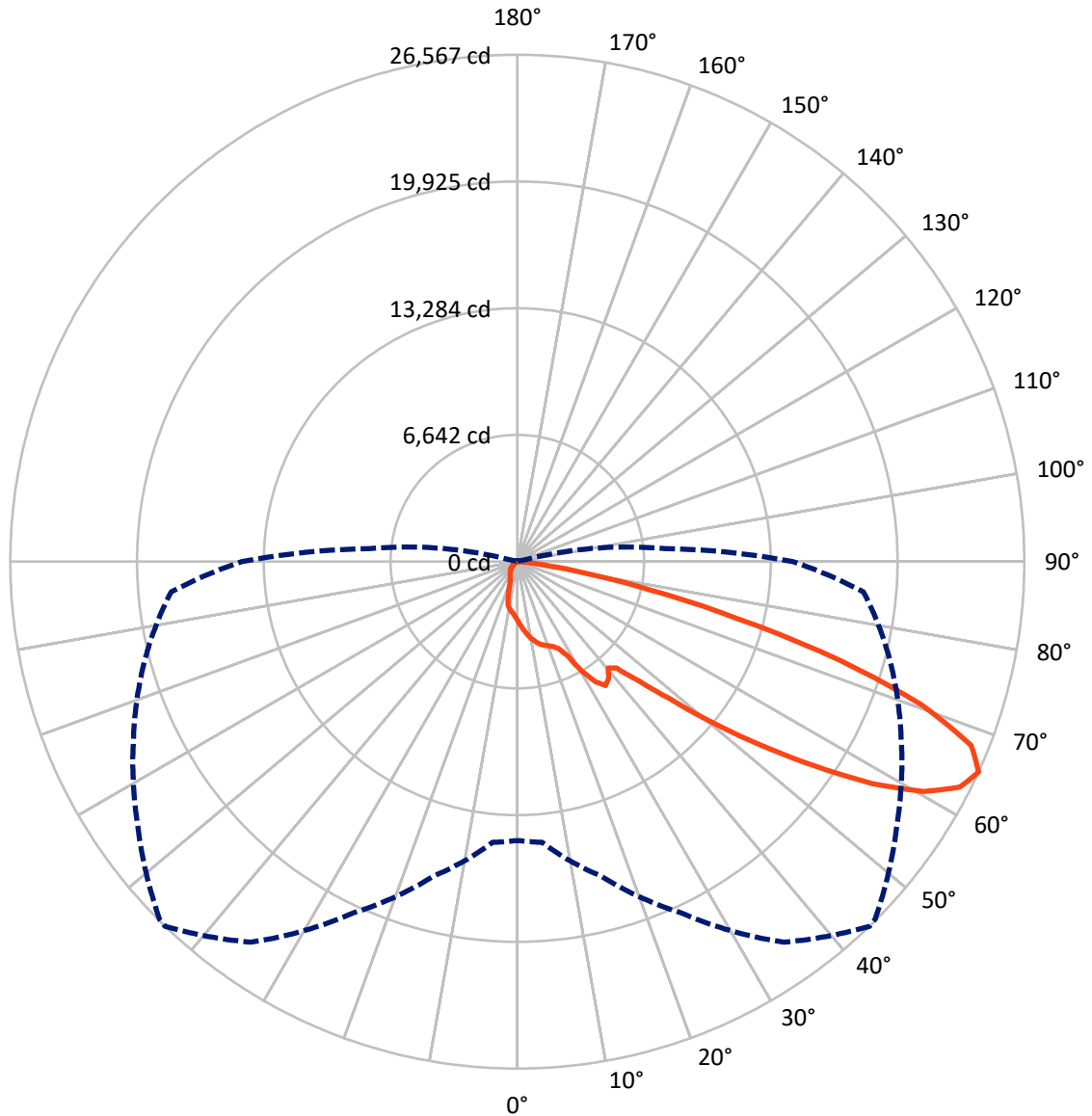
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3057.5   | 0.0    | 3057.5  |
|                    | % Fixture | 9.2      | 0.0    | 9.2     |
| <b>Street Side</b> | Lumens    | 30127.5  | 0.0    | 30127.5 |
|                    | % Fixture | 90.8     | 0.0    | 90.8    |
| <b>Total</b>       | Lumens    | 33185.0  | 0.0    | 33185.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 307.2   | 0.9       |
| 10°-20°   | 924.5   | 2.8       |
| 20°-30°   | 1567.7  | 4.7       |
| 30°-40°   | 2606.5  | 7.9       |
| 40°-50°   | 4551.0  | 13.7      |
| 50°-60°   | 8891.1  | 26.8      |
| 60°-70°   | 10315.8 | 31.1      |
| 70°-80°   | 3756.5  | 11.3      |
| 80°-90°   | 264.7   | 0.8       |
| 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°    | 33185.0 | 100.0     |
| 0°-180°   | 33185.0 | 100.0     |

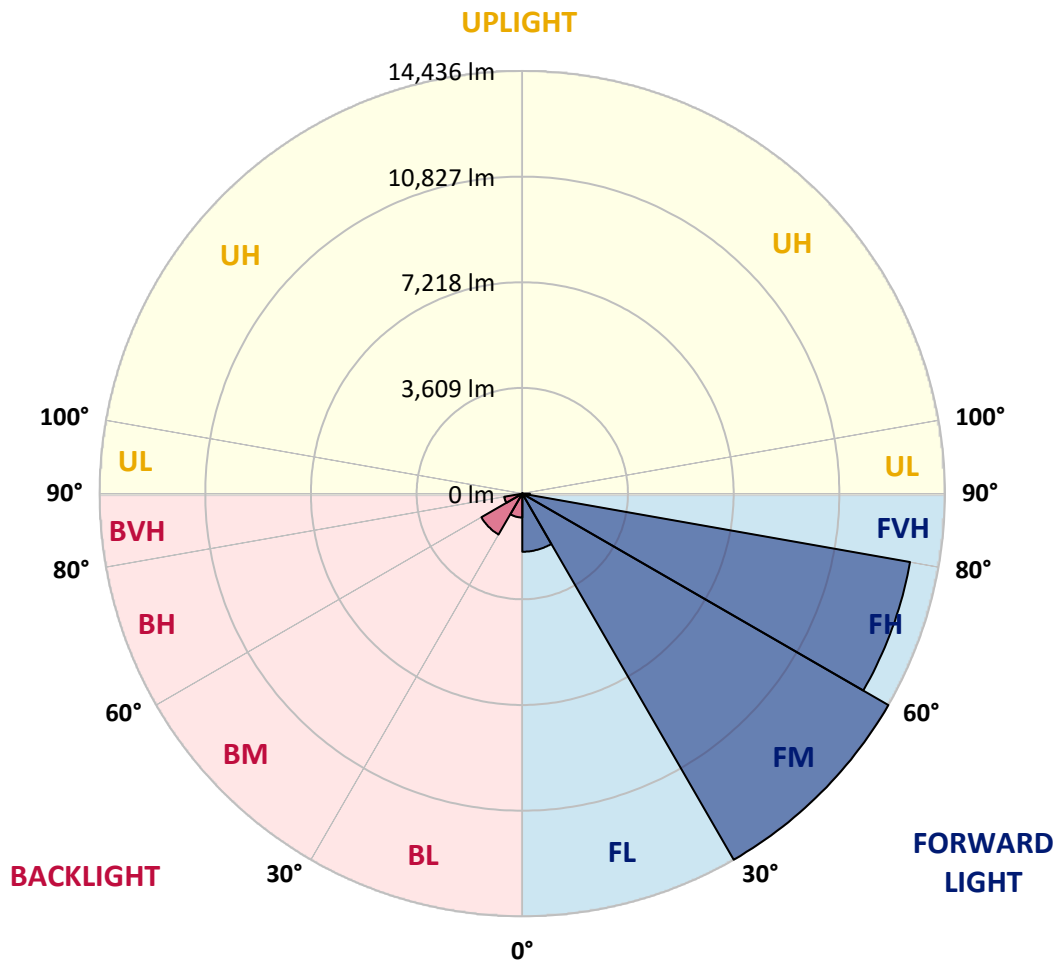


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1984.8  | 6.0       |                         |      |         |
| FM   | (30°-60°)   | 14435.5 | 43.5      |                         |      |         |
| FH   | (60°-80°)   | 13446.1 | 40.5      |                         |      | G5      |
| FVH  | (80°-90°)   | 261.1   | 0.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 814.6   | 2.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1613.1  | 4.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 626.1   | 1.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 3.6     | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3088.5  | 3088.5  | 3088.5  | 3088.5  | 3088.5  | 3088.5  | 3088.5  | 3088.5  | 3088.5  | 3088.5  | 3088.5  |
| 2.5°  | 3476.5  | 3461.3  | 3453.7  | 3413.1  | 3382.7  | 3344.6  | 3344.6  | 3296.5  | 3240.7  | 3179.8  | 3124.0  |
| 5°    | 3864.5  | 3839.1  | 3806.1  | 3770.6  | 3699.6  | 3598.2  | 3598.2  | 3496.8  | 3380.1  | 3276.2  | 3162.1  |
| 7.5°  | 4237.2  | 4214.4  | 4158.6  | 4090.2  | 3973.5  | 3867.0  | 3859.4  | 3712.3  | 3572.9  | 3415.6  | 3253.4  |
| 10°   | 4564.3  | 4546.6  | 4498.4  | 4366.5  | 4244.8  | 4105.4  | 4102.8  | 3938.0  | 3775.7  | 3583.0  | 3382.7  |
| 12.5° | 4792.6  | 4795.1  | 4731.7  | 4604.9  | 4447.7  | 4315.8  | 4305.7  | 4143.4  | 3973.5  | 3765.6  | 3519.6  |
| 15°   | 4954.8  | 4954.8  | 4888.9  | 4746.9  | 4604.9  | 4488.3  | 4478.1  | 4336.1  | 4161.2  | 3935.5  | 3669.2  |
| 17.5° | 5000.5  | 5015.7  | 4944.7  | 4817.9  | 4703.8  | 4602.4  | 4599.8  | 4480.7  | 4341.2  | 4123.1  | 3821.4  |
| 20°   | 4982.7  | 4997.9  | 4942.2  | 4843.3  | 4764.7  | 4706.3  | 4698.7  | 4650.6  | 4521.2  | 4315.8  | 3983.7  |
| 22.5° | 4944.7  | 4959.9  | 4919.3  | 4861.0  | 4823.0  | 4840.7  | 4828.1  | 4868.6  | 4800.2  | 4551.7  | 4176.4  |
| 25°   | 4952.3  | 4967.5  | 4937.1  | 4904.1  | 4937.1  | 5046.1  | 5079.1  | 5254.1  | 5193.2  | 4850.9  | 4384.3  |
| 27.5° | 5190.7  | 5221.1  | 5178.0  | 5193.2  | 5309.8  | 5563.4  | 5626.8  | 5928.6  | 5659.8  | 5231.2  | 4708.9  |
| 30°   | 5720.6  | 5700.3  | 5619.2  | 5692.7  | 6098.5  | 6636.0  | 6618.3  | 6570.1  | 6149.2  | 5669.9  | 5094.3  |
| 32.5° | 6202.4  | 6184.7  | 6179.6  | 6496.6  | 7231.9  | 7493.1  | 7480.4  | 7013.9  | 6587.9  | 6172.0  | 5474.7  |
| 35°   | 6397.7  | 6329.2  | 6314.0  | 7082.3  | 8312.2  | 7967.3  | 7888.7  | 7196.4  | 7120.4  | 6719.7  | 5862.6  |
| 37.5° | 6986.0  | 6937.8  | 6702.0  | 7178.7  | 7881.1  | 7767.0  | 7706.1  | 7510.9  | 7688.4  | 7204.0  | 6301.3  |
| 40°   | 8198.1  | 8063.7  | 7850.7  | 7384.1  | 7270.0  | 7318.2  | 7379.0  | 7914.1  | 8360.3  | 7865.9  | 6887.1  |
| 42.5° | 9704.3  | 9673.9  | 9278.3  | 8408.5  | 7554.0  | 7619.9  | 7698.5  | 8755.9  | 9326.5  | 8862.4  | 7843.1  |
| 45°   | 11512.3 | 11555.4 | 10984.8 | 9957.9  | 8837.1  | 8892.8  | 9007.0  | 9998.4  | 10634.9 | 10411.8 | 9346.7  |
| 47.5° | 13155.4 | 13122.5 | 12929.7 | 11862.2 | 10827.6 | 10703.4 | 10888.5 | 11593.4 | 12445.4 | 12480.9 | 11213.1 |
| 50°   | 14808.7 | 14983.7 | 14697.2 | 14278.8 | 13510.4 | 13249.3 | 13180.8 | 13525.6 | 14823.9 | 14654.1 | 13454.6 |
| 52.5° | 17184.7 | 17276.0 | 16738.4 | 16631.9 | 16806.9 | 15960.0 | 15891.5 | 15975.2 | 17136.5 | 16553.3 | 15133.3 |
| 55°   | 18678.3 | 18625.0 | 18424.7 | 19256.4 | 19948.7 | 18891.3 | 18805.1 | 18467.8 | 19056.1 | 17894.7 | 16748.6 |
| 57.5° | 19149.9 | 19226.0 | 19692.6 | 21196.3 | 22834.4 | 21936.7 | 21779.5 | 20821.0 | 20440.6 | 19144.9 | 18234.5 |
| 60°   | 18939.5 | 19078.9 | 20085.6 | 22322.1 | 24594.2 | 24459.8 | 24325.4 | 22715.2 | 21434.6 | 20189.6 | 19276.7 |
| 62.5° | 17440.8 | 17636.1 | 19246.3 | 22121.8 | 25190.1 | 26029.4 | 25862.0 | 23896.8 | 22096.5 | 20696.7 | 19459.3 |
| 65°   | 14616.0 | 14760.6 | 17073.2 | 20303.7 | 24343.1 | 26567.0 | 26506.1 | 24267.1 | 22200.4 | 20232.7 | 18209.2 |
| 67.5° | 10419.4 | 10911.3 | 13054.0 | 17111.2 | 21837.8 | 25649.0 | 25753.0 | 23823.3 | 21224.2 | 18226.9 | 15080.1 |
| 70°   | 6549.8  | 6884.5  | 8421.2  | 12250.2 | 17506.8 | 22502.2 | 22844.5 | 21792.2 | 18419.6 | 14207.8 | 10094.8 |
| 72.5° | 3124.0  | 3372.5  | 4468.0  | 7754.3  | 12356.7 | 17704.6 | 17975.9 | 17889.7 | 14243.3 | 8951.2  | 5208.4  |
| 75°   | 1392.1  | 1485.9  | 2132.6  | 3958.3  | 7977.4  | 11900.2 | 12602.6 | 12719.3 | 8900.5  | 4379.2  | 2026.1  |
| 77.5° | 710.0   | 712.5   | 999.1   | 1917.0  | 3983.7  | 7100.1  | 7239.5  | 7647.8  | 4825.5  | 1929.7  | 704.9   |
| 80°   | 377.8   | 403.2   | 530.0   | 905.3   | 2066.6  | 3496.8  | 3479.0  | 3823.9  | 2140.2  | 945.8   | 235.8   |
| 82.5° | 169.9   | 187.6   | 299.2   | 474.2   | 1009.2  | 1326.2  | 1430.2  | 1564.6  | 917.9   | 603.5   | 104.0   |
| 85°   | 50.7    | 60.9    | 147.1   | 238.4   | 365.1   | 382.9   | 428.5   | 552.8   | 519.8   | 428.5   | 53.3    |
| 87.5° | 7.6     | 7.6     | 60.9    | 65.9    | 53.3    | 68.5    | 71.0    | 78.6    | 167.4   | 157.2   | 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°    | 3088.5  | 3088.5  | 3088.5 | 3088.5 | 3088.5 | 3088.5 | 3088.5 | 3088.5 | 3088.5 | 3088.5 | 3088.5 |
| 2.5°  | 3093.6  | 3075.9  | 3012.5 | 2959.2 | 2913.6 | 2885.7 | 2852.7 | 2832.4 | 2822.3 | 2814.7 | 2817.2 |
| 5°    | 3106.3  | 3063.2  | 2954.1 | 2867.9 | 2802.0 | 2731.0 | 2682.8 | 2654.9 | 2642.2 | 2622.0 | 2622.0 |
| 7.5°  | 3177.3  | 3108.8  | 2956.7 | 2824.8 | 2710.7 | 2614.4 | 2523.1 | 2490.1 | 2467.3 | 2462.2 | 2457.1 |
| 10°   | 3278.7  | 3192.5  | 2984.6 | 2802.0 | 2639.7 | 2507.8 | 2378.5 | 2264.4 | 2175.7 | 2122.4 | 2114.8 |
| 12.5° | 3405.5  | 3281.3  | 3027.7 | 2786.8 | 2578.8 | 2345.6 | 2003.2 | 1772.5 | 1617.8 | 1569.6 | 1577.2 |
| 15°   | 3522.1  | 3387.8  | 3070.8 | 2774.1 | 2467.3 | 1944.9 | 1556.9 | 1293.2 | 1214.6 | 1207.0 | 1209.5 |
| 17.5° | 3661.6  | 3501.9  | 3121.5 | 2756.4 | 2160.5 | 1485.9 | 1156.3 | 1085.3 | 1100.5 | 1125.9 | 1123.3 |
| 20°   | 3806.1  | 3623.6  | 3182.4 | 2649.9 | 1724.3 | 1118.3 | 1021.9 | 1029.5 | 1052.3 | 1075.2 | 1080.2 |
| 22.5° | 3960.8  | 3763.0  | 3253.4 | 2393.7 | 1316.1 | 973.7  | 968.7  | 978.8  | 1001.6 | 1027.0 | 1032.0 |
| 25°   | 4173.8  | 3938.0  | 3306.6 | 2059.0 | 996.5  | 900.2  | 910.3  | 928.1  | 948.4  | 976.3  | 981.3  |
| 27.5° | 4447.7  | 4173.8  | 3334.5 | 1622.9 | 862.2  | 834.3  | 836.8  | 862.2  | 887.5  | 912.9  | 912.9  |
| 30°   | 4802.7  | 4455.3  | 3278.7 | 1227.3 | 796.2  | 770.9  | 760.7  | 775.9  | 808.9  | 834.3  | 836.8  |
| 32.5° | 5119.7  | 4721.6  | 3131.6 | 938.2  | 748.0  | 712.5  | 687.2  | 689.7  | 702.4  | 717.6  | 720.2  |
| 35°   | 5436.6  | 4980.2  | 2880.6 | 788.6  | 697.3  | 656.8  | 618.7  | 598.4  | 588.3  | 580.7  | 588.3  |
| 37.5° | 5842.3  | 5302.2  | 2545.9 | 717.6  | 654.2  | 603.5  | 550.3  | 507.1  | 471.6  | 448.8  | 453.9  |
| 40°   | 6364.7  | 5748.5  | 2150.3 | 672.0  | 613.6  | 552.8  | 481.8  | 426.0  | 365.1  | 344.9  | 334.7  |
| 42.5° | 7226.9  | 6425.6  | 1734.4 | 633.9  | 573.1  | 499.5  | 410.8  | 334.7  | 278.9  | 258.6  | 263.7  |
| 45°   | 8588.6  | 7280.1  | 1336.3 | 593.4  | 532.5  | 441.2  | 344.9  | 263.7  | 218.1  | 207.9  | 213.0  |
| 47.5° | 10394.0 | 8385.7  | 1029.5 | 547.7  | 481.8  | 377.8  | 271.3  | 207.9  | 180.0  | 177.5  | 175.0  |
| 50°   | 12093.0 | 9415.2  | 859.6  | 497.0  | 420.9  | 314.4  | 223.1  | 175.0  | 157.2  | 154.7  | 154.7  |
| 52.5° | 13629.6 | 10153.1 | 699.9  | 438.7  | 355.0  | 258.6  | 187.6  | 154.7  | 139.5  | 131.9  | 131.9  |
| 55°   | 14996.4 | 10634.9 | 568.0  | 367.7  | 278.9  | 205.4  | 162.3  | 139.5  | 121.7  | 111.6  | 109.0  |
| 57.5° | 16028.4 | 10693.2 | 426.0  | 294.1  | 207.9  | 159.8  | 139.5  | 121.7  | 101.4  | 88.8   | 83.7   |
| 60°   | 16469.6 | 10188.6 | 314.4  | 223.1  | 154.7  | 126.8  | 111.6  | 98.9   | 76.1   | 63.4   | 60.9   |
| 62.5° | 16025.9 | 9207.3  | 233.3  | 169.9  | 119.2  | 93.8   | 78.6   | 73.5   | 53.3   | 38.0   | 35.5   |
| 65°   | 14436.0 | 7789.8  | 185.1  | 129.3  | 88.8   | 68.5   | 50.7   | 48.2   | 33.0   | 17.8   | 15.2   |
| 67.5° | 11565.5 | 6101.0  | 147.1  | 96.4   | 63.4   | 45.6   | 33.0   | 30.4   | 17.8   | 5.1    | 5.1    |
| 70°   | 7521.0  | 3900.0  | 119.2  | 71.0   | 40.6   | 30.4   | 20.3   | 15.2   | 10.1   | 2.5    | 0.0    |
| 72.5° | 3719.9  | 1823.2  | 96.4   | 55.8   | 27.9   | 15.2   | 7.6    | 5.1    | 7.6    | 0.0    | 0.0    |
| 75°   | 1442.8  | 649.1   | 71.0   | 38.0   | 15.2   | 7.6    | 5.1    | 0.0    | 2.5    | 0.0    | 0.0    |
| 77.5° | 479.3   | 215.5   | 43.1   | 20.3   | 10.1   | 5.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 177.5   | 83.7    | 22.8   | 12.7   | 5.1    | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 71.0    | 33.0    | 15.2   | 10.1   | 5.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 35.5    | 20.3    | 10.1   | 7.6    | 5.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 25.4    | 15.2    | 10.1   | 7.6    | 5.1    | 2.5    | 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)