

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: P532216

Luminaire Tested: **GALN-SA7C-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-740-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36470 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G3

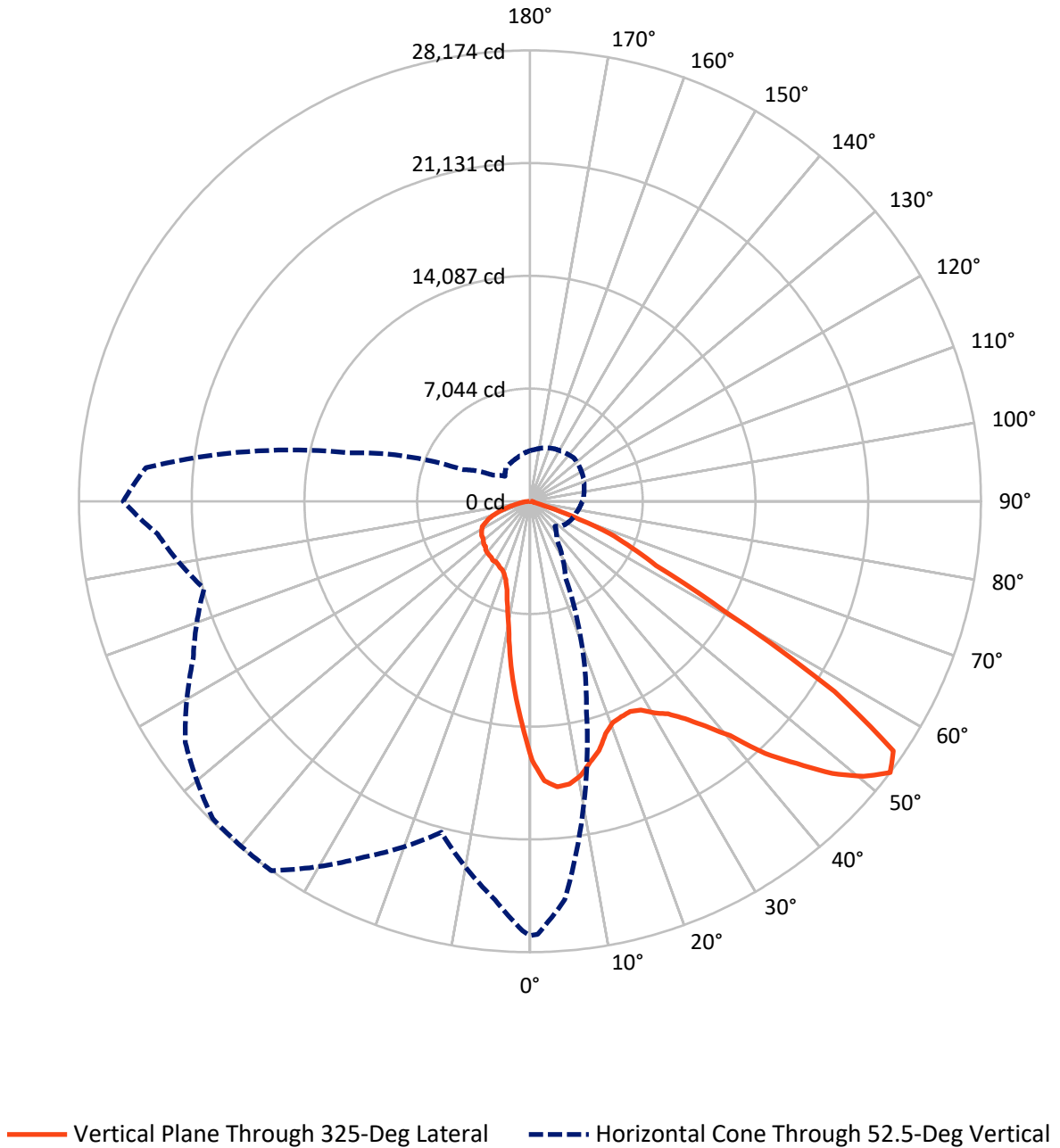
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT





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### Luminous Intensity Polar Plot



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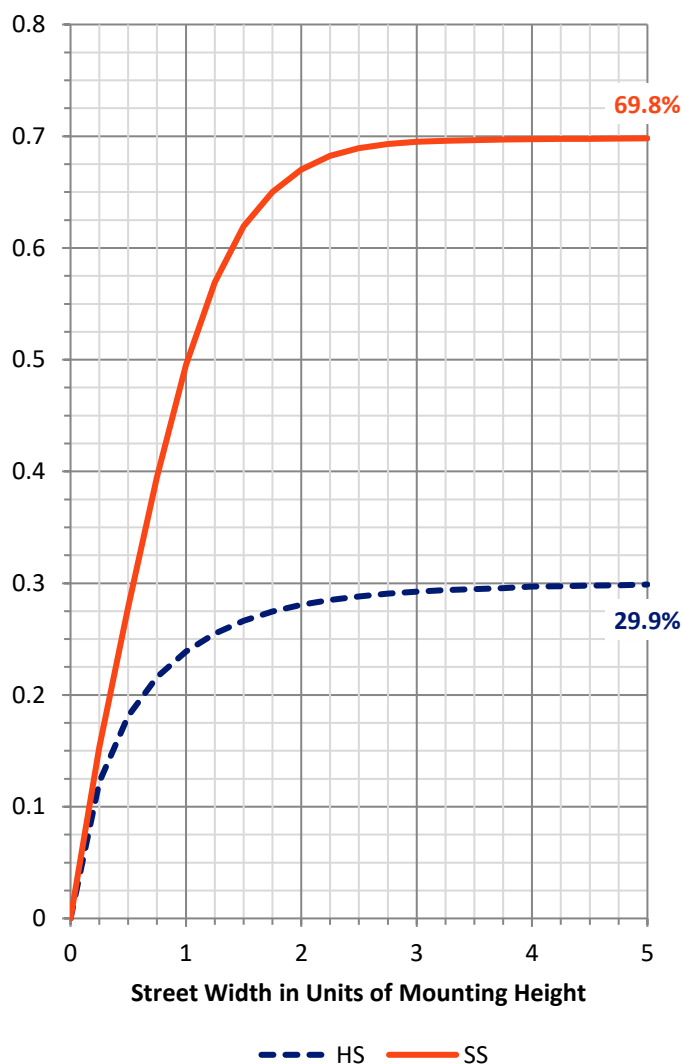
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10994.2  | 0.0    | 10994.2 |
|                    | % Fixture | 30.1     | 0.0    | 30.1    |
| <b>Street Side</b> | Lumens    | 25475.8  | 0.0    | 25475.8 |
|                    | % Fixture | 69.9     | 0.0    | 69.9    |
| <b>Total</b>       | Lumens    | 36470.0  | 0.0    | 36470.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1234.8  | 3.4       |
| 10°-20°   | 2676.9  | 7.3       |
| 20°-30°   | 4044.6  | 11.1      |
| 30°-40°   | 5844.6  | 16.0      |
| 40°-50°   | 7778.1  | 21.3      |
| 50°-60°   | 8700.0  | 23.9      |
| 60°-70°   | 4903.3  | 13.4      |
| 70°-80°   | 1093.0  | 3.0       |
| 80°-90°   | 194.6   | 0.5       |
| 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°    | 36470.0 | 100.0     |
| 0°-180°   | 36470.0 | 100.0     |

**Coefficient of Utilization**



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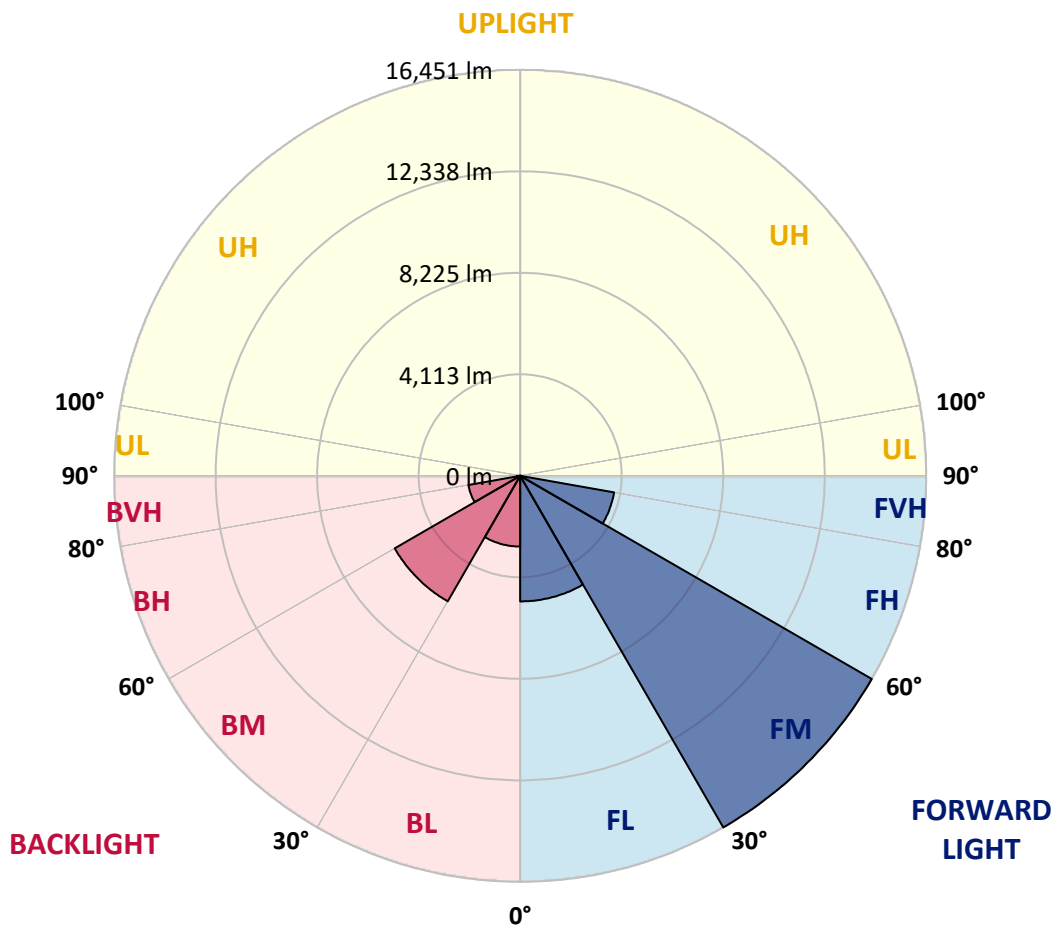
CATALOG NUMBER: GALN-SA7C-740-U-SLR-GRSWH

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5089.3  | 14.0      |                         |      |         |
| FM (30°-60°)   | 16450.8 | 45.1      |                         |      |         |
| FH (60°-80°)   | 3865.3  | 10.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 70.5    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2867.0  | 7.9       | B4/5000                 |      |         |
| BM (30°-60°)   | 5872.0  | 16.1      | B4/8500                 |      |         |
| BH (60°-80°)   | 2131.0  | 5.8       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 124.2   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 |
| 2.5°  | 16455.2 | 16719.5 | 16434.1 | 15926.6 | 15567.2 | 15239.4 | 14895.8 | 14827.1 | 14377.8 | 14298.5 | 13970.8 |
| 5°    | 15519.6 | 15461.4 | 15112.6 | 14446.5 | 13711.8 | 13045.7 | 12554.2 | 12078.4 | 11756.0 | 11380.7 | 11354.2 |
| 7.5°  | 14383.1 | 14044.8 | 13843.9 | 12834.3 | 11925.1 | 10878.5 | 10429.2 | 9705.0  | 9477.7  | 9139.4  | 8965.0  |
| 10°   | 13368.2 | 13119.8 | 12649.3 | 11639.7 | 10371.1 | 9678.6  | 9197.6  | 8806.4  | 8542.1  | 8193.2  | 7754.5  |
| 12.5° | 12866.0 | 12765.6 | 12237.0 | 10672.4 | 9731.5  | 8991.4  | 8653.1  | 8272.5  | 7823.2  | 7262.9  | 7046.2  |
| 15°   | 12955.9 | 12617.6 | 12215.9 | 10487.3 | 9187.0  | 8473.4  | 7934.2  | 7458.5  | 6882.3  | 6348.4  | 6036.6  |
| 17.5° | 13627.2 | 13368.2 | 12564.7 | 10603.6 | 8980.8  | 7950.1  | 6972.2  | 6269.1  | 5751.1  | 5270.1  | 5053.4  |
| 20°   | 14948.7 | 14573.4 | 13669.5 | 10751.6 | 8536.8  | 7220.6  | 6100.0  | 5233.1  | 4678.1  | 4424.3  | 4350.3  |
| 22.5° | 16412.9 | 16190.9 | 14747.8 | 11084.7 | 8182.7  | 6544.0  | 5175.0  | 4308.1  | 4101.9  | 4033.2  | 4170.6  |
| 25°   | 18194.3 | 17618.1 | 16423.5 | 11629.1 | 7907.8  | 5967.8  | 4392.6  | 3911.6  | 3805.9  | 3874.6  | 4033.2  |
| 27.5° | 19547.5 | 19394.2 | 17597.0 | 12141.9 | 7532.5  | 5275.4  | 3953.9  | 3636.7  | 3668.5  | 3737.2  | 3885.2  |
| 30°   | 21154.4 | 20377.4 | 18733.4 | 12496.0 | 7194.2  | 4799.7  | 3647.3  | 3562.7  | 3594.5  | 3710.7  | 3784.7  |
| 32.5° | 22121.7 | 21831.0 | 19447.0 | 13029.9 | 6803.0  | 4387.3  | 3409.4  | 3330.2  | 3377.7  | 3552.2  | 3726.6  |
| 35°   | 23353.4 | 22777.2 | 20329.8 | 13167.3 | 6528.2  | 4223.5  | 3240.3  | 3182.1  | 3293.2  | 3414.7  | 3610.3  |
| 37.5° | 24791.2 | 24394.7 | 21550.9 | 13072.2 | 6380.2  | 4054.3  | 3097.6  | 3071.1  | 3150.4  | 3319.6  | 3546.9  |
| 40°   | 25642.2 | 25520.6 | 22190.5 | 13130.3 | 6147.6  | 3906.3  | 2933.7  | 2965.4  | 3129.3  | 3261.4  | 3483.4  |
| 42.5° | 26461.5 | 25668.6 | 23136.6 | 13109.2 | 5999.6  | 3705.5  | 2949.6  | 2912.6  | 3039.4  | 3192.7  | 3404.2  |
| 45°   | 26641.2 | 25853.6 | 23358.7 | 12961.2 | 5819.8  | 3509.9  | 2828.0  | 2843.8  | 2997.1  | 3187.4  | 3324.9  |
| 47.5° | 26524.9 | 25943.5 | 23771.0 | 12918.9 | 5650.7  | 3372.4  | 2648.3  | 2838.6  | 2928.4  | 3081.7  | 3277.3  |
| 50°   | 26445.7 | 26413.9 | 24119.8 | 13119.8 | 5423.4  | 3155.7  | 2431.5  | 2769.8  | 2859.7  | 3013.0  | 3224.4  |
| 52.5° | 27143.4 | 27074.7 | 24992.0 | 13648.3 | 5243.7  | 2923.1  | 2209.5  | 2595.4  | 2812.1  | 2960.1  | 3166.3  |
| 55°   | 27566.3 | 27265.0 | 26487.9 | 14298.5 | 4942.4  | 2616.6  | 2056.2  | 2378.7  | 2695.8  | 2828.0  | 3039.4  |
| 57.5° | 24796.4 | 24590.3 | 23961.3 | 13347.0 | 4434.9  | 2214.8  | 1865.9  | 2156.7  | 2537.3  | 2743.4  | 2960.1  |
| 60°   | 20631.1 | 20308.7 | 18696.4 | 11343.7 | 3272.0  | 1723.2  | 1749.7  | 1982.2  | 2495.0  | 2574.3  | 2828.0  |
| 62.5° | 19452.3 | 18654.2 | 16460.5 | 9128.9  | 2510.8  | 1480.1  | 1569.9  | 1823.7  | 2273.0  | 2405.1  | 2658.8  |
| 65°   | 15435.0 | 14843.0 | 11777.1 | 6591.6  | 1680.9  | 1284.5  | 1432.5  | 1643.9  | 1961.1  | 2220.1  | 2452.7  |
| 67.5° | 9662.7  | 9097.1  | 6285.0  | 3118.7  | 1173.5  | 1099.5  | 1279.2  | 1501.2  | 1760.2  | 1992.8  | 2251.8  |
| 70°   | 5048.1  | 4429.6  | 2902.0  | 1125.9  | 808.8   | 898.6   | 1067.8  | 1279.2  | 1532.9  | 1723.2  | 1924.1  |
| 72.5° | 1881.8  | 1527.6  | 946.2   | 486.3   | 560.3   | 687.2   | 866.9   | 1020.2  | 1199.9  | 1432.5  | 1543.5  |
| 75°   | 290.7   | 248.4   | 243.2   | 296.0   | 380.6   | 496.9   | 618.5   | 771.8   | 930.3   | 1078.3  | 1152.3  |
| 77.5° | 137.4   | 132.1   | 148.0   | 195.6   | 253.7   | 354.2   | 449.3   | 597.3   | 724.2   | 819.3   | 861.6   |
| 80°   | 89.9    | 84.6    | 95.1    | 132.1   | 190.3   | 264.3   | 359.4   | 459.9   | 576.2   | 655.5   | 644.9   |
| 82.5° | 52.9    | 58.1    | 58.1    | 89.9    | 132.1   | 190.3   | 259.0   | 348.9   | 428.2   | 496.9   | 454.6   |
| 85°   | 31.7    | 26.4    | 26.4    | 52.9    | 89.9    | 153.3   | 216.7   | 148.0   | 153.3   | 153.3   | 174.4   |
| 87.5° | 10.6    | 10.6    | 10.6    | 5.3     | 10.6    | 10.6    | 15.9    | 26.4    | 31.7    | 37.0    | 47.6    |
| 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°    | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 |
| 2.5°  | 13960.2 | 14124.1 | 14065.9 | 13859.8 | 14018.4 | 14044.8 | 13939.1 | 14303.8 | 14372.5 | 14261.5 | 14293.2 |
| 5°    | 11317.2 | 11359.5 | 11454.7 | 11655.5 | 11798.3 | 11967.4 | 11967.4 | 11978.0 | 11835.3 | 12194.7 | 12089.0 |
| 7.5°  | 8817.0  | 8843.4  | 8954.4  | 9382.6  | 9504.2  | 9826.6  | 9964.0  | 9868.9  | 9583.4  | 9461.9  | 9562.3  |
| 10°   | 7611.8  | 7458.5  | 7421.5  | 7474.3  | 7749.2  | 7886.7  | 8002.9  | 7971.2  | 7923.7  | 7828.5  | 7722.8  |
| 12.5° | 6808.3  | 6697.3  | 6607.5  | 6480.6  | 6496.4  | 6628.6  | 6718.5  | 6644.5  | 6665.6  | 6686.7  | 6718.5  |
| 15°   | 5936.1  | 5856.8  | 5809.3  | 5619.0  | 5597.8  | 5687.7  | 5719.4  | 5761.7  | 5841.0  | 5846.3  | 5809.3  |
| 17.5° | 5011.1  | 4942.4  | 5048.1  | 5153.8  | 5079.8  | 5085.1  | 5143.2  | 5180.2  | 5159.1  | 5063.9  | 5016.4  |
| 20°   | 4376.8  | 4450.8  | 4556.5  | 4656.9  | 4736.2  | 4783.8  | 4804.9  | 4746.8  | 4678.1  | 4482.5  | 4477.2  |
| 22.5° | 4191.8  | 4286.9  | 4376.8  | 4530.1  | 4604.1  | 4725.6  | 4614.6  | 4482.5  | 4387.3  | 4292.2  | 4181.2  |
| 25°   | 4054.3  | 4133.6  | 4313.3  | 4371.5  | 4514.2  | 4614.6  | 4535.4  | 4403.2  | 4239.3  | 4101.9  | 4017.3  |
| 27.5° | 3953.9  | 4043.8  | 4160.1  | 4318.6  | 4429.6  | 4487.8  | 4408.5  | 4355.6  | 4186.5  | 4022.6  | 3901.0  |
| 30°   | 3890.5  | 3985.6  | 4197.1  | 4329.2  | 4424.3  | 4471.9  | 4334.5  | 4271.1  | 4149.5  | 4012.0  | 3906.3  |
| 32.5° | 3848.2  | 3932.8  | 4112.5  | 4281.6  | 4345.1  | 4345.1  | 4366.2  | 4292.2  | 4123.0  | 3890.5  | 3800.6  |
| 35°   | 3710.7  | 3827.0  | 3975.0  | 4170.6  | 4286.9  | 4355.6  | 4249.9  | 4165.3  | 4054.3  | 3816.5  | 3652.6  |
| 37.5° | 3631.5  | 3710.7  | 3901.0  | 4086.0  | 4186.5  | 4260.5  | 4218.2  | 4070.2  | 3922.2  | 3726.6  | 3594.5  |
| 40°   | 3546.9  | 3673.7  | 3842.9  | 4017.3  | 4128.3  | 4202.3  | 4170.6  | 3996.2  | 3816.5  | 3631.5  | 3541.6  |
| 42.5° | 3488.7  | 3573.3  | 3747.7  | 3943.3  | 4075.5  | 4218.2  | 4123.0  | 3906.3  | 3779.5  | 3525.7  | 3425.3  |
| 45°   | 3441.2  | 3578.6  | 3763.6  | 3842.9  | 3980.3  | 4128.3  | 3959.2  | 3827.0  | 3679.0  | 3494.0  | 3409.4  |
| 47.5° | 3383.0  | 3509.9  | 3631.5  | 3842.9  | 3906.3  | 3975.0  | 3943.3  | 3731.9  | 3605.0  | 3404.2  | 3346.0  |
| 50°   | 3361.9  | 3409.4  | 3631.5  | 3747.7  | 3837.6  | 3906.3  | 3821.7  | 3663.2  | 3541.6  | 3335.4  | 3208.6  |
| 52.5° | 3277.3  | 3367.2  | 3509.9  | 3663.2  | 3774.2  | 3858.8  | 3721.3  | 3620.9  | 3457.0  | 3240.3  | 3161.0  |
| 55°   | 3171.6  | 3224.4  | 3478.2  | 3636.7  | 3694.9  | 3753.0  | 3700.2  | 3536.3  | 3367.2  | 3145.1  | 3065.9  |
| 57.5° | 3034.1  | 3155.7  | 3361.9  | 3583.9  | 3657.9  | 3689.6  | 3605.0  | 3472.9  | 3261.4  | 3065.9  | 2939.0  |
| 60°   | 2891.4  | 3018.3  | 3245.6  | 3425.3  | 3499.3  | 3615.6  | 3488.7  | 3409.4  | 3166.3  | 2949.6  | 2812.1  |
| 62.5° | 2748.7  | 2891.4  | 3060.6  | 3287.9  | 3351.3  | 3398.9  | 3367.2  | 3256.2  | 3060.6  | 2817.4  | 2648.3  |
| 65°   | 2579.5  | 2685.3  | 2896.7  | 3013.0  | 3055.3  | 3166.3  | 3055.3  | 3013.0  | 2838.6  | 2606.0  | 2463.3  |
| 67.5° | 2325.8  | 2415.7  | 2600.7  | 2711.7  | 2743.4  | 2791.0  | 2785.7  | 2738.1  | 2542.5  | 2384.0  | 2257.1  |
| 70°   | 2035.1  | 2114.4  | 2230.7  | 2362.8  | 2378.7  | 2436.8  | 2384.0  | 2373.4  | 2246.5  | 2029.8  | 1961.1  |
| 72.5° | 1633.4  | 1707.4  | 1860.7  | 1918.8  | 1924.1  | 1945.2  | 1918.8  | 1881.8  | 1850.1  | 1622.8  | 1554.1  |
| 75°   | 1252.8  | 1295.1  | 1369.1  | 1421.9  | 1421.9  | 1448.4  | 1432.5  | 1395.5  | 1310.9  | 1168.2  | 1099.5  |
| 77.5° | 872.2   | 914.5   | 1009.6  | 1041.3  | 1036.0  | 1046.6  | 999.0   | 962.0   | 835.2   | 761.2   | 703.0   |
| 80°   | 634.3   | 660.7   | 708.3   | 729.5   | 734.7   | 750.6   | 692.5   | 660.7   | 586.7   | 502.2   | 475.7   |
| 82.5° | 459.9   | 475.7   | 481.0   | 507.5   | 507.5   | 481.0   | 465.2   | 433.4   | 380.6   | 327.7   | 306.6   |
| 85°   | 190.3   | 195.6   | 200.9   | 232.6   | 237.9   | 285.4   | 264.3   | 248.4   | 216.7   | 185.0   | 169.2   |
| 87.5° | 47.6    | 52.9    | 68.7    | 58.1    | 68.7    | 68.7    | 74.0    | 84.6    | 84.6    | 68.7    | 68.7    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 |
| 2.5°  | 14414.8 | 14457.1 | 14996.3 | 15065.0 | 15329.3 | 15598.9 | 16143.3 | 16534.5 | 16851.6 | 17057.8 | 17115.9 |
| 5°    | 12200.0 | 12469.6 | 12718.0 | 13119.8 | 13484.5 | 14002.5 | 14599.8 | 15339.9 | 16270.2 | 16745.9 | 16936.2 |
| 7.5°  | 9551.7  | 9868.9  | 10228.3 | 10619.5 | 11153.4 | 12083.7 | 12881.9 | 13738.2 | 14927.6 | 15419.1 | 16164.5 |
| 10°   | 7796.8  | 8151.0  | 8626.7  | 8928.0  | 9572.9  | 10460.9 | 11391.2 | 12379.7 | 13516.2 | 14224.5 | 15086.1 |
| 12.5° | 6892.9  | 7183.6  | 7622.4  | 8256.7  | 8737.7  | 9313.9  | 10006.3 | 11253.8 | 12881.9 | 13553.2 | 14145.2 |
| 15°   | 5893.8  | 6216.3  | 6723.7  | 7426.8  | 8002.9  | 8690.1  | 9467.2  | 10825.6 | 12559.4 | 13595.5 | 14097.7 |
| 17.5° | 5069.2  | 5301.8  | 5835.7  | 6443.6  | 7104.3  | 7854.9  | 8970.3  | 10804.5 | 12897.7 | 14224.5 | 15043.8 |
| 20°   | 4498.4  | 4530.1  | 4820.8  | 5338.8  | 6237.4  | 7215.3  | 8663.7  | 10698.8 | 13981.4 | 15308.1 | 16344.2 |
| 22.5° | 4138.9  | 4107.2  | 4112.5  | 4551.2  | 5180.2  | 6586.3  | 8182.7  | 11058.2 | 15213.0 | 17031.4 | 17729.1 |
| 25°   | 3959.2  | 3874.6  | 3821.7  | 3916.9  | 4487.8  | 5841.0  | 7817.9  | 11534.0 | 16539.8 | 18453.3 | 19309.6 |
| 27.5° | 3864.0  | 3716.0  | 3610.3  | 3626.2  | 4043.8  | 5465.7  | 7590.6  | 11740.1 | 17856.0 | 20435.5 | 20736.8 |
| 30°   | 3827.0  | 3642.0  | 3488.7  | 3435.9  | 3710.7  | 4942.4  | 7104.3  | 12094.3 | 19034.7 | 21524.4 | 21783.4 |
| 32.5° | 3694.9  | 3467.6  | 3319.6  | 3272.0  | 3383.0  | 4482.5  | 6755.5  | 12348.0 | 20076.1 | 22708.5 | 22618.6 |
| 35°   | 3541.6  | 3351.3  | 3166.3  | 3076.4  | 3155.7  | 4186.5  | 6475.3  | 12226.4 | 21302.4 | 23628.2 | 23580.7 |
| 37.5° | 3525.7  | 3277.3  | 3124.0  | 2976.0  | 2970.7  | 3821.7  | 6094.7  | 12342.7 | 22084.7 | 25277.5 | 24627.3 |
| 40°   | 3388.3  | 3229.7  | 3028.9  | 2907.3  | 2838.6  | 3636.7  | 5724.7  | 12067.8 | 23231.8 | 25943.5 | 25303.9 |
| 42.5° | 3393.6  | 3155.7  | 2981.3  | 2838.6  | 2769.8  | 3367.2  | 5471.0  | 11993.8 | 23633.5 | 27027.1 | 25621.0 |
| 45°   | 3309.0  | 3076.4  | 2928.4  | 2759.3  | 2722.3  | 3161.0  | 5227.8  | 11650.3 | 24341.8 | 27080.0 | 25224.6 |
| 47.5° | 3224.4  | 3018.3  | 2859.7  | 2658.8  | 2574.3  | 3087.0  | 5037.5  | 11364.8 | 23971.8 | 26583.1 | 24674.9 |
| 50°   | 3166.3  | 2928.4  | 2780.4  | 2637.7  | 2399.8  | 2960.1  | 4789.1  | 11296.1 | 23453.8 | 25911.8 | 23654.7 |
| 52.5° | 3065.9  | 2854.4  | 2701.1  | 2590.1  | 2209.5  | 2843.8  | 4693.9  | 11697.8 | 24088.1 | 25409.6 | 23358.7 |
| 55°   | 2970.7  | 2754.0  | 2558.4  | 2341.7  | 2051.0  | 2537.3  | 4429.6  | 12073.1 | 25013.2 | 26567.2 | 24701.3 |
| 57.5° | 2870.3  | 2664.1  | 2452.7  | 2193.7  | 1897.7  | 2220.1  | 4154.8  | 12141.9 | 23279.4 | 24553.3 | 23448.5 |
| 60°   | 2738.1  | 2473.8  | 2315.3  | 1976.9  | 1733.8  | 1839.5  | 3293.2  | 10704.1 | 18056.8 | 20504.2 | 20541.2 |
| 62.5° | 2590.1  | 2304.7  | 2167.2  | 1770.8  | 1564.6  | 1585.8  | 2685.3  | 8996.7  | 14647.4 | 16973.2 | 17982.8 |
| 65°   | 2394.5  | 2119.7  | 1955.8  | 1638.6  | 1443.1  | 1374.3  | 1966.4  | 6591.6  | 11126.9 | 13769.9 | 14917.0 |
| 67.5° | 2140.8  | 1881.8  | 1675.6  | 1427.2  | 1289.8  | 1178.8  | 1342.6  | 3710.7  | 6570.4  | 9245.1  | 9594.0  |
| 70°   | 1871.2  | 1649.2  | 1432.5  | 1226.3  | 1073.0  | 993.8   | 983.2   | 1643.9  | 3139.9  | 4974.1  | 5661.3  |
| 72.5° | 1474.8  | 1316.2  | 1141.8  | 988.5   | 888.0   | 771.8   | 703.0   | 681.9   | 1062.5  | 2024.5  | 2796.3  |
| 75°   | 1057.2  | 925.0   | 824.6   | 724.2   | 650.2   | 586.7   | 533.9   | 486.3   | 444.0   | 507.5   | 697.7   |
| 77.5° | 666.0   | 618.5   | 539.2   | 512.7   | 470.5   | 454.6   | 433.4   | 407.0   | 375.3   | 354.2   | 354.2   |
| 80°   | 449.3   | 417.6   | 391.2   | 385.9   | 370.0   | 364.7   | 370.0   | 343.6   | 311.9   | 285.4   | 296.0   |
| 82.5° | 301.3   | 296.0   | 290.7   | 285.4   | 290.7   | 296.0   | 306.6   | 301.3   | 274.9   | 259.0   | 264.3   |
| 85°   | 179.7   | 190.3   | 200.9   | 211.4   | 232.6   | 206.2   | 169.2   | 142.7   | 126.9   | 116.3   | 111.0   |
| 87.5° | 68.7    | 95.1    | 84.6    | 79.3    | 84.6    | 79.3    | 74.0    | 68.7    | 58.1    | 52.9    | 52.9    |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 | 16185.6 |
| 2.5°  | 17501.8 | 17607.5 | 17697.4 | 17676.3 | 17491.2 | 17242.8 | 17142.4 | 16629.6 | 16523.9 | 16455.2 |
| 5°    | 17739.7 | 18352.9 | 18485.0 | 18405.7 | 17924.7 | 17316.8 | 16724.8 | 15974.2 | 15535.4 | 15519.6 |
| 7.5°  | 17300.9 | 18056.8 | 18294.7 | 18474.4 | 17834.8 | 16777.6 | 15762.7 | 14636.8 | 14362.0 | 14383.1 |
| 10°   | 16185.6 | 17390.8 | 17977.6 | 18162.6 | 17427.8 | 16513.3 | 15107.3 | 13965.5 | 13378.8 | 13368.2 |
| 12.5° | 15567.2 | 16513.3 | 16677.2 | 16936.2 | 16719.5 | 15794.4 | 14726.7 | 13447.5 | 12876.6 | 12866.0 |
| 15°   | 15017.4 | 15641.2 | 15688.7 | 16053.5 | 16169.8 | 15546.0 | 14827.1 | 13463.3 | 13003.5 | 12955.9 |
| 17.5° | 15498.4 | 15065.0 | 14885.3 | 14932.8 | 15276.4 | 15503.7 | 15408.6 | 14362.0 | 13891.5 | 13627.2 |
| 20°   | 15820.9 | 14853.5 | 14309.1 | 14362.0 | 14769.0 | 15598.9 | 16275.5 | 15662.3 | 14917.0 | 14948.7 |
| 22.5° | 16682.5 | 14885.3 | 14034.2 | 13976.1 | 14621.0 | 16095.7 | 17253.4 | 17306.2 | 16587.3 | 16412.9 |
| 25°   | 17972.3 | 15250.0 | 13949.6 | 13933.8 | 14552.2 | 16629.6 | 18395.1 | 19251.5 | 18516.7 | 18194.3 |
| 27.5° | 19008.3 | 15820.9 | 14213.9 | 14266.8 | 14769.0 | 17063.1 | 19367.8 | 20504.2 | 19943.9 | 19547.5 |
| 30°   | 19917.5 | 16412.9 | 14584.0 | 14340.8 | 15350.4 | 17290.4 | 19785.3 | 21931.4 | 21482.1 | 21154.4 |
| 32.5° | 20292.8 | 17253.4 | 15170.7 | 14769.0 | 15831.5 | 17565.2 | 20652.2 | 23316.4 | 22930.5 | 22121.7 |
| 35°   | 20927.1 | 17723.8 | 15487.9 | 15456.1 | 16671.9 | 18226.0 | 21059.3 | 24230.8 | 24072.3 | 23353.4 |
| 37.5° | 21434.6 | 18199.6 | 16613.8 | 16264.9 | 17824.3 | 19336.0 | 21714.7 | 25494.2 | 25129.5 | 24791.2 |
| 40°   | 21825.7 | 19050.6 | 17665.7 | 18125.6 | 19240.9 | 20345.7 | 22317.3 | 25573.5 | 26625.4 | 25642.2 |
| 42.5° | 21466.3 | 19811.8 | 19394.2 | 20493.7 | 21550.9 | 21498.0 | 22386.0 | 26186.6 | 26974.3 | 26461.5 |
| 45°   | 21376.4 | 21101.6 | 22127.0 | 23126.1 | 23369.2 | 22454.8 | 21894.4 | 25510.0 | 26868.5 | 26641.2 |
| 47.5° | 21159.7 | 22370.2 | 24156.8 | 25784.9 | 25414.9 | 23094.4 | 21307.7 | 25388.5 | 26932.0 | 26524.9 |
| 50°   | 21085.7 | 22645.1 | 25658.1 | 27243.8 | 27021.8 | 23649.4 | 21032.8 | 24606.1 | 26482.7 | 26445.7 |
| 52.5° | 21080.4 | 23210.7 | 26281.8 | 28036.7 | 28174.2 | 24526.9 | 21408.1 | 25002.6 | 26831.5 | 27143.4 |
| 55°   | 21318.3 | 23030.9 | 26202.5 | 27598.0 | 27545.1 | 24135.7 | 21450.4 | 25266.9 | 27259.7 | 27566.3 |
| 57.5° | 20107.8 | 20631.1 | 21624.9 | 22729.6 | 22444.2 | 19991.5 | 19156.3 | 23358.7 | 25018.4 | 24796.4 |
| 60°   | 17364.4 | 15725.7 | 14605.1 | 14552.2 | 13997.2 | 13230.8 | 15678.2 | 20847.8 | 20847.8 | 20631.1 |
| 62.5° | 15207.7 | 10323.5 | 8869.8  | 8457.5  | 8854.0  | 9736.7  | 15123.1 | 20276.9 | 19700.8 | 19452.3 |
| 65°   | 13299.5 | 7881.4  | 6411.9  | 6295.6  | 6982.8  | 8314.8  | 13674.8 | 17274.5 | 16259.6 | 15435.0 |
| 67.5° | 8558.0  | 5772.3  | 4767.9  | 4561.8  | 5391.7  | 6105.3  | 9102.4  | 10624.8 | 9985.2  | 9662.7  |
| 70°   | 5518.5  | 3758.3  | 2653.6  | 2489.7  | 2812.1  | 3763.6  | 5814.6  | 6195.1  | 5264.8  | 5048.1  |
| 72.5° | 2611.3  | 1622.8  | 930.3   | 766.5   | 861.6   | 1437.8  | 2299.4  | 2473.8  | 2056.2  | 1881.8  |
| 75°   | 829.9   | 597.3   | 380.6   | 327.7   | 311.9   | 370.0   | 528.6   | 407.0   | 296.0   | 290.7   |
| 77.5° | 370.0   | 354.2   | 301.3   | 253.7   | 222.0   | 185.0   | 153.3   | 126.9   | 132.1   | 137.4   |
| 80°   | 306.6   | 280.2   | 248.4   | 222.0   | 185.0   | 142.7   | 111.0   | 84.6    | 84.6    | 89.9    |
| 82.5° | 269.6   | 243.2   | 216.7   | 185.0   | 158.6   | 116.3   | 84.6    | 58.1    | 52.9    | 52.9    |
| 85°   | 116.3   | 137.4   | 148.0   | 158.6   | 126.9   | 95.1    | 58.1    | 37.0    | 31.7    | 31.7    |
| 87.5° | 47.6    | 42.3    | 37.0    | 31.7    | 26.4    | 26.4    | 21.1    | 15.9    | 10.6    | 10.6    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)