

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: P269369

Luminaire Tested: **GLEON-AF-06-LED-E1-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-5WQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32579.3 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 333
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: 25 FT

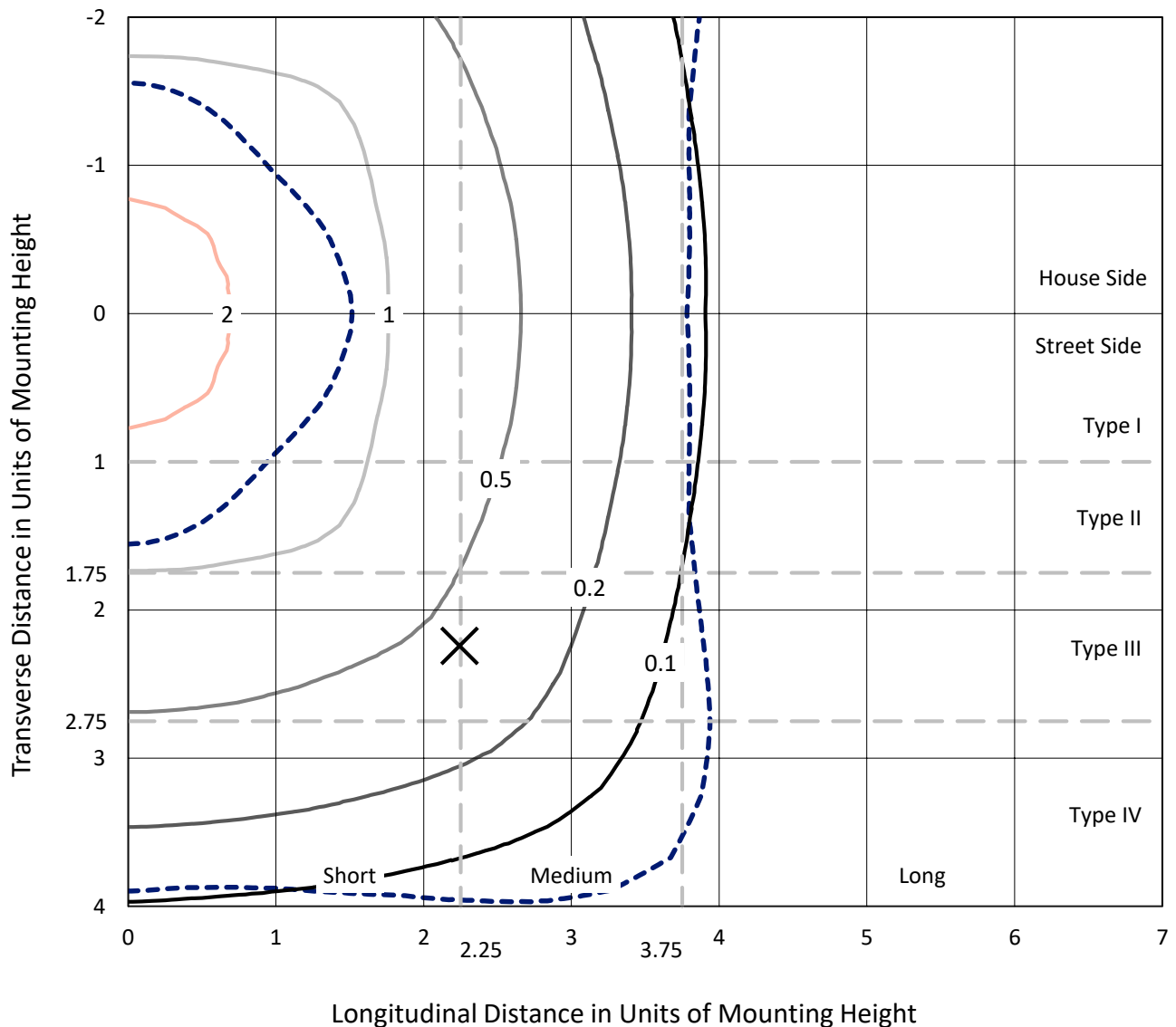


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

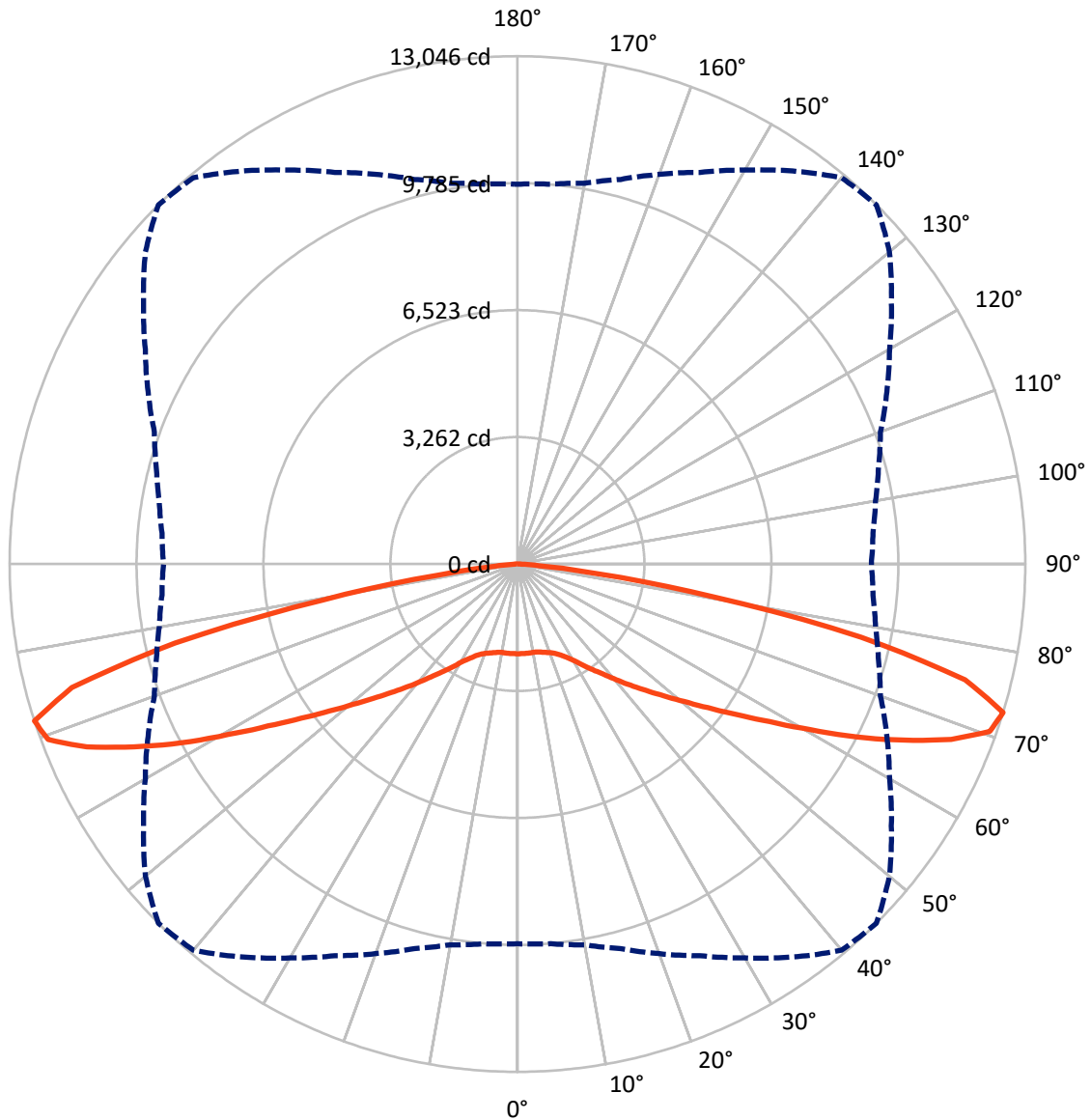


Based on 30 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16289.6 | 0.0 | 16289.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16289.6 | 0.0 | 16289.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 32579.3 | 0.0 | 32579.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 220.3 | 0.7 |
| 10°-20° | 669.1 | 2.1 |
| 20°-30° | 1222.7 | 3.8 |
| 30°-40° | 2108.1 | 6.5 |
| 40°-50° | 3603.8 | 11.1 |
| 50°-60° | 5841.3 | 17.9 |
| 60°-70° | 9690.6 | 29.7 |
| 70°-80° | 8535.1 | 26.2 |
| 80°-90° | 688.2 | 2.1 |
| 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° | 32579.3 | 100.0 |
| 0°-180° | 32579.3 | 100.0 |



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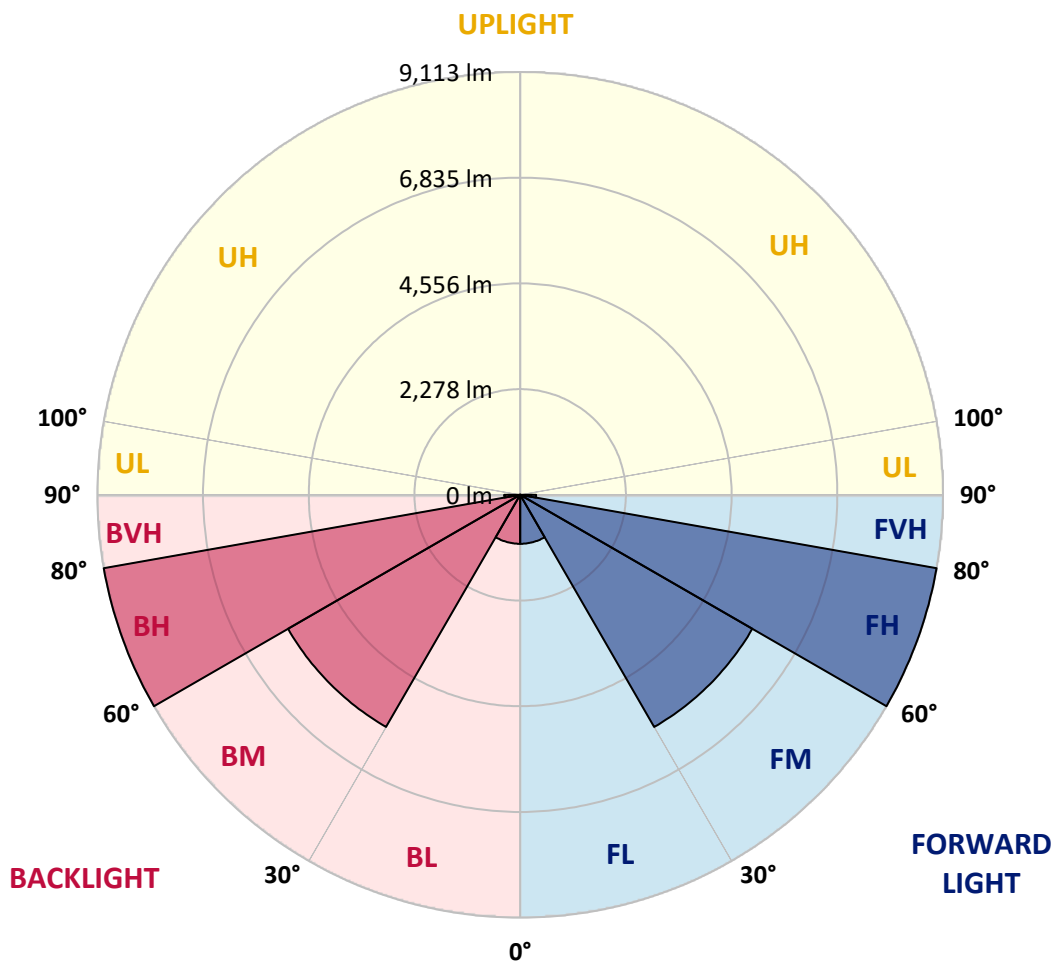
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1056.0 | 3.2 | | | |
| FM | (30°-60°) | 5776.7 | 17.7 | | | |
| FH | (60°-80°) | 9112.9 | 28.0 | | | G4/12000 |
| FVH | (80°-90°) | 344.1 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 1056.0 | 3.2 | B3/2500 | | |
| BM | (30°-60°) | 5776.7 | 17.7 | B4/8500 | | |
| BH | (60°-80°) | 9112.9 | 28.0 | B5 | | G4/12000 |
| BVH | (80°-90°) | 344.1 | 1.1 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2307.1 | 2307.1 | 2307.1 | 2307.1 | 2307.1 | 2307.1 | 2307.1 | 2307.1 | 2307.1 | 2307.1 | 2307.1 |
| 2.5° | 2307.1 | 2308.6 | 2310.1 | 2308.6 | 2308.6 | 2307.1 | 2305.6 | 2307.1 | 2305.6 | 2302.6 | 2304.2 |
| 5° | 2314.7 | 2317.5 | 2317.5 | 2314.7 | 2316.1 | 2314.7 | 2311.6 | 2313.0 | 2310.1 | 2305.6 | 2305.6 |
| 7.5° | 2323.6 | 2325.1 | 2325.1 | 2322.1 | 2323.6 | 2320.6 | 2317.5 | 2316.1 | 2313.0 | 2307.1 | 2302.6 |
| 10° | 2337.0 | 2338.5 | 2337.0 | 2334.1 | 2334.1 | 2329.6 | 2322.1 | 2319.1 | 2313.0 | 2304.2 | 2299.7 |
| 12.5° | 2351.9 | 2353.4 | 2351.9 | 2349.0 | 2347.5 | 2339.9 | 2334.1 | 2329.6 | 2325.1 | 2317.5 | 2310.1 |
| 15° | 2372.9 | 2375.8 | 2372.9 | 2366.9 | 2362.5 | 2356.4 | 2353.4 | 2354.9 | 2356.4 | 2350.4 | 2343.0 |
| 17.5° | 2411.7 | 2413.1 | 2408.7 | 2395.3 | 2389.3 | 2383.4 | 2383.4 | 2386.3 | 2390.7 | 2387.9 | 2380.4 |
| 20° | 2483.5 | 2479.0 | 2468.5 | 2452.1 | 2444.6 | 2434.1 | 2432.6 | 2434.1 | 2434.1 | 2432.6 | 2426.6 |
| 22.5° | 2573.0 | 2570.1 | 2556.7 | 2535.7 | 2525.2 | 2519.2 | 2510.4 | 2502.9 | 2501.4 | 2496.8 | 2490.9 |
| 25° | 2680.7 | 2679.1 | 2662.8 | 2644.8 | 2637.3 | 2629.9 | 2622.4 | 2611.9 | 2603.0 | 2592.5 | 2586.5 |
| 27.5° | 2818.2 | 2812.1 | 2788.2 | 2779.3 | 2768.8 | 2764.4 | 2753.9 | 2741.9 | 2734.5 | 2721.1 | 2713.6 |
| 30° | 2969.1 | 2969.1 | 2949.7 | 2946.7 | 2946.7 | 2936.2 | 2924.3 | 2903.3 | 2889.8 | 2876.5 | 2871.9 |
| 32.5° | 3120.1 | 3121.5 | 3102.0 | 3108.0 | 3112.4 | 3120.1 | 3123.0 | 3115.5 | 3106.6 | 3105.0 | 3096.1 |
| 35° | 3338.1 | 3332.2 | 3312.8 | 3317.3 | 3315.7 | 3314.2 | 3314.2 | 3330.6 | 3333.7 | 3336.7 | 3318.7 |
| 37.5° | 3608.6 | 3608.6 | 3589.2 | 3589.2 | 3580.3 | 3571.2 | 3559.4 | 3569.8 | 3586.3 | 3590.6 | 3578.7 |
| 40° | 3917.9 | 3928.4 | 3904.5 | 3903.0 | 3906.0 | 3877.5 | 3864.1 | 3880.6 | 3891.0 | 3909.0 | 3895.5 |
| 42.5° | 4282.5 | 4275.0 | 4251.0 | 4248.2 | 4231.7 | 4222.8 | 4210.7 | 4224.2 | 4240.7 | 4252.7 | 4257.1 |
| 45° | 4632.2 | 4626.2 | 4599.3 | 4599.3 | 4582.9 | 4575.3 | 4581.4 | 4603.8 | 4611.3 | 4627.7 | 4644.1 |
| 47.5° | 4977.4 | 4969.9 | 4951.9 | 4959.5 | 4960.9 | 4974.4 | 4993.8 | 5014.7 | 5035.5 | 5058.0 | 5065.5 |
| 50° | 5330.1 | 5331.5 | 5312.0 | 5330.1 | 5352.5 | 5389.7 | 5442.0 | 5476.4 | 5519.7 | 5548.1 | 5557.2 |
| 52.5° | 5651.2 | 5657.3 | 5678.1 | 5720.0 | 5764.9 | 5838.1 | 5927.6 | 6011.4 | 6083.1 | 6130.9 | 6127.9 |
| 55° | 6036.8 | 6045.8 | 6096.5 | 6168.2 | 6241.5 | 6352.1 | 6485.0 | 6632.9 | 6752.5 | 6821.2 | 6777.9 |
| 57.5° | 6529.9 | 6549.4 | 6606.0 | 6703.2 | 6812.2 | 6955.8 | 7138.0 | 7360.7 | 7545.9 | 7638.6 | 7568.4 |
| 60° | 7206.7 | 7218.7 | 7287.5 | 7395.0 | 7526.4 | 7704.4 | 7947.9 | 8246.8 | 8508.2 | 8630.7 | 8550.1 |
| 62.5° | 8098.8 | 8121.2 | 8176.6 | 8285.5 | 8420.2 | 8621.8 | 8919.2 | 9292.7 | 9618.5 | 9788.8 | 9606.6 |
| 65° | 9164.1 | 9236.0 | 9282.2 | 9392.9 | 9518.4 | 9732.1 | 10042.8 | 10443.2 | 10793.0 | 10905.1 | 10694.3 |
| 67.5° | 10219.2 | 10281.9 | 10362.6 | 10489.6 | 10616.7 | 10857.3 | 11145.6 | 11534.1 | 11918.2 | 12019.7 | 11692.5 |
| 70° | 10680.8 | 10716.8 | 10842.3 | 11015.6 | 11259.1 | 11543.1 | 11876.3 | 12312.6 | 12787.8 | 12871.5 | 12456.1 |
| 72.5° | 9756.0 | 9791.9 | 9932.3 | 10226.7 | 10651.1 | 11102.2 | 11683.5 | 12324.6 | 12952.1 | 13046.3 | 12474.0 |
| 75° | 7378.6 | 7320.3 | 7528.1 | 7918.0 | 8490.3 | 9119.5 | 9932.3 | 10851.3 | 11758.3 | 11876.3 | 11193.4 |
| 77.5° | 3813.3 | 3805.8 | 3962.8 | 4446.9 | 5129.7 | 5845.5 | 6740.5 | 7779.1 | 8666.7 | 9025.4 | 8469.4 |
| 80° | 1074.4 | 1086.3 | 1161.0 | 1401.6 | 1800.6 | 2317.5 | 3016.9 | 3989.6 | 4715.8 | 5086.5 | 4775.6 |
| 82.5° | 421.3 | 454.3 | 482.6 | 527.5 | 579.8 | 656.0 | 875.7 | 1303.0 | 1748.3 | 2089.0 | 1710.9 |
| 85° | 150.9 | 161.3 | 228.6 | 270.5 | 274.9 | 290.0 | 330.2 | 385.6 | 464.8 | 554.3 | 455.7 |
| 87.5° | 56.9 | 62.7 | 73.2 | 121.0 | 119.6 | 109.1 | 132.9 | 139.0 | 104.7 | 95.6 | 118.0 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2307.1 | 2307.1 | 2307.1 | 2307.1 | 2307.1 | 2307.1 | 2307.1 | 2307.1 |
| 2.5° | 2301.2 | 2302.6 | 2302.6 | 2304.2 | 2305.6 | 2305.6 | 2308.6 | 2308.6 |
| 5° | 2302.6 | 2302.6 | 2299.7 | 2301.2 | 2299.7 | 2299.7 | 2301.2 | 2301.2 |
| 7.5° | 2299.7 | 2298.1 | 2295.2 | 2293.6 | 2290.7 | 2290.7 | 2290.7 | 2290.7 |
| 10° | 2295.2 | 2293.6 | 2290.7 | 2289.2 | 2287.8 | 2287.8 | 2287.8 | 2287.8 |
| 12.5° | 2307.1 | 2302.6 | 2299.7 | 2298.1 | 2298.1 | 2298.1 | 2298.1 | 2298.1 |
| 15° | 2338.5 | 2328.0 | 2320.6 | 2320.6 | 2322.1 | 2325.1 | 2325.1 | 2328.0 |
| 17.5° | 2377.4 | 2365.3 | 2358.0 | 2351.9 | 2354.9 | 2359.4 | 2362.5 | 2365.3 |
| 20° | 2423.6 | 2417.7 | 2407.3 | 2401.3 | 2401.3 | 2407.3 | 2410.2 | 2411.7 |
| 22.5° | 2487.9 | 2483.5 | 2479.0 | 2471.4 | 2471.4 | 2474.6 | 2480.5 | 2480.5 |
| 25° | 2583.5 | 2580.7 | 2577.5 | 2571.6 | 2570.1 | 2570.1 | 2573.0 | 2576.1 |
| 27.5° | 2703.1 | 2704.5 | 2701.7 | 2700.1 | 2695.6 | 2694.1 | 2698.6 | 2697.2 |
| 30° | 2863.0 | 2870.4 | 2877.9 | 2871.9 | 2864.4 | 2860.1 | 2855.5 | 2849.6 |
| 32.5° | 3079.7 | 3070.6 | 3064.7 | 3054.2 | 3040.9 | 3028.8 | 3019.9 | 3009.4 |
| 35° | 3284.4 | 3269.4 | 3263.5 | 3272.3 | 3270.9 | 3263.5 | 3253.0 | 3244.0 |
| 37.5° | 3535.4 | 3532.4 | 3535.4 | 3551.8 | 3548.8 | 3556.3 | 3535.4 | 3533.9 |
| 40° | 3852.2 | 3855.2 | 3876.0 | 3895.5 | 3906.0 | 3916.4 | 3904.5 | 3892.5 |
| 42.5° | 4219.8 | 4218.4 | 4225.7 | 4252.7 | 4270.5 | 4282.5 | 4257.1 | 4254.2 |
| 45° | 4608.2 | 4597.9 | 4603.8 | 4626.2 | 4644.1 | 4657.6 | 4629.1 | 4629.1 |
| 47.5° | 5035.5 | 5017.8 | 4998.3 | 5023.7 | 5034.1 | 5043.1 | 5020.6 | 5013.3 |
| 50° | 5512.3 | 5474.9 | 5433.0 | 5443.5 | 5443.5 | 5440.6 | 5412.2 | 5410.8 |
| 52.5° | 6059.2 | 5990.4 | 5914.3 | 5885.9 | 5869.4 | 5851.5 | 5802.2 | 5778.3 |
| 55° | 6688.3 | 6585.1 | 6465.6 | 6392.3 | 6353.5 | 6304.2 | 6222.0 | 6199.7 |
| 57.5° | 7423.5 | 7262.1 | 7055.8 | 6966.1 | 6879.5 | 6798.8 | 6707.6 | 6682.3 |
| 60° | 8294.6 | 8057.0 | 7783.5 | 7617.6 | 7523.6 | 7445.8 | 7351.6 | 7347.1 |
| 62.5° | 9265.8 | 8890.7 | 8581.5 | 8432.0 | 8363.3 | 8294.6 | 8204.8 | 8216.8 |
| 65° | 10253.6 | 9862.0 | 9572.2 | 9451.1 | 9386.8 | 9330.1 | 9240.4 | 9253.9 |
| 67.5° | 11227.7 | 10867.6 | 10549.3 | 10425.4 | 10353.7 | 10281.9 | 10201.2 | 10214.6 |
| 70° | 11927.1 | 11480.2 | 11121.6 | 10846.8 | 10674.9 | 10480.6 | 10355.1 | 10323.9 |
| 72.5° | 11726.8 | 11038.1 | 10468.7 | 9923.2 | 9603.5 | 9343.5 | 9167.3 | 9090.9 |
| 75° | 10149.0 | 9207.5 | 8475.4 | 7805.9 | 7429.4 | 7123.1 | 6900.4 | 6761.5 |
| 77.5° | 7537.0 | 6479.0 | 5613.9 | 4842.9 | 4233.3 | 3823.7 | 3535.4 | 3348.6 |
| 80° | 4125.6 | 3137.9 | 2293.6 | 1612.3 | 1185.0 | 984.7 | 869.6 | 814.4 |
| 82.5° | 1285.0 | 829.3 | 611.1 | 527.5 | 490.1 | 469.2 | 434.8 | 379.5 |
| 85° | 409.4 | 358.7 | 333.2 | 318.3 | 303.4 | 264.6 | 182.3 | 165.8 |
| 87.5° | 158.5 | 162.9 | 161.3 | 152.4 | 155.3 | 112.1 | 89.7 | 79.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)