

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: P193335

Luminaire Tested: **GLEON-AF-07-LED-E1-5MQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-5MQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23779 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

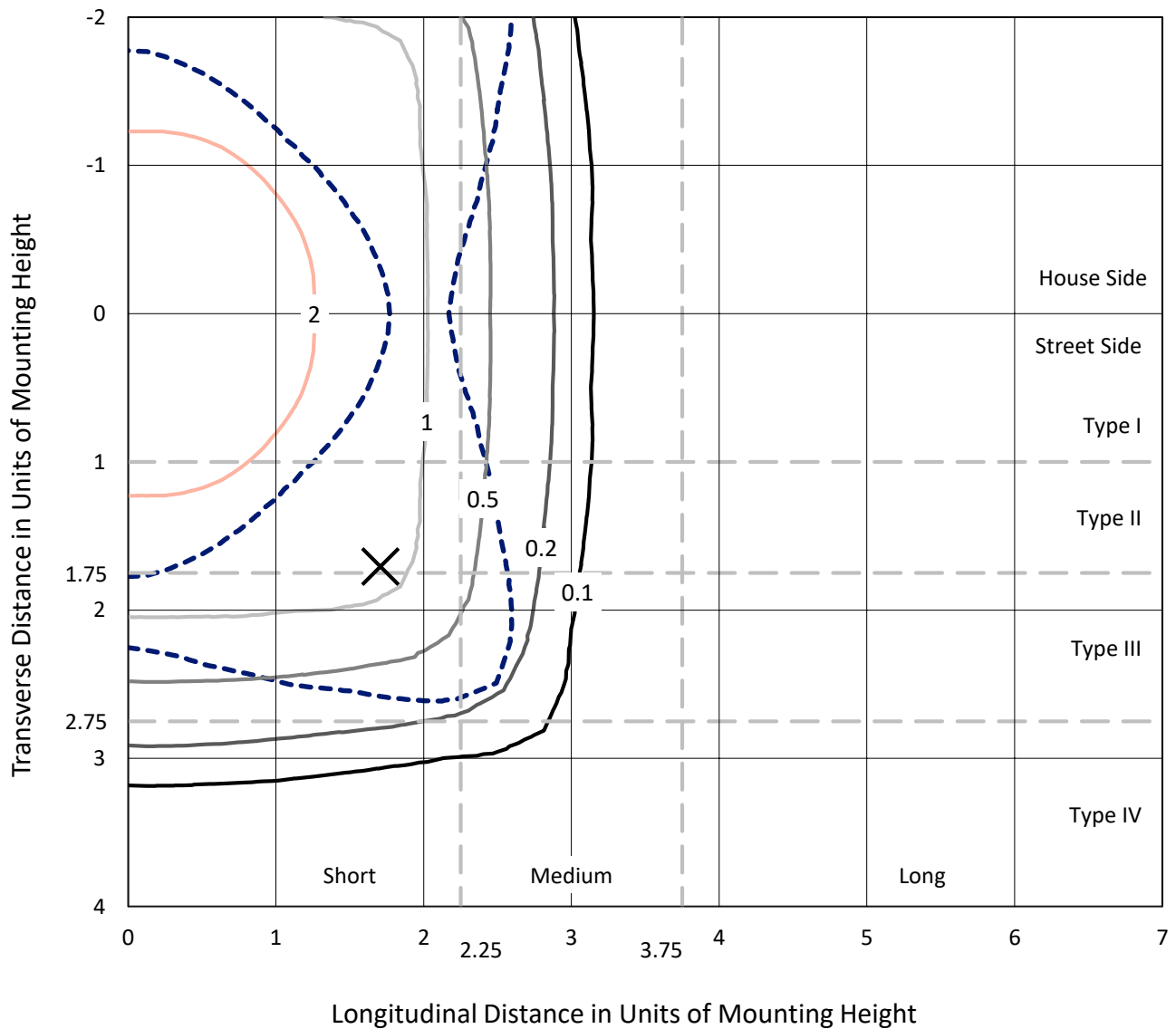
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

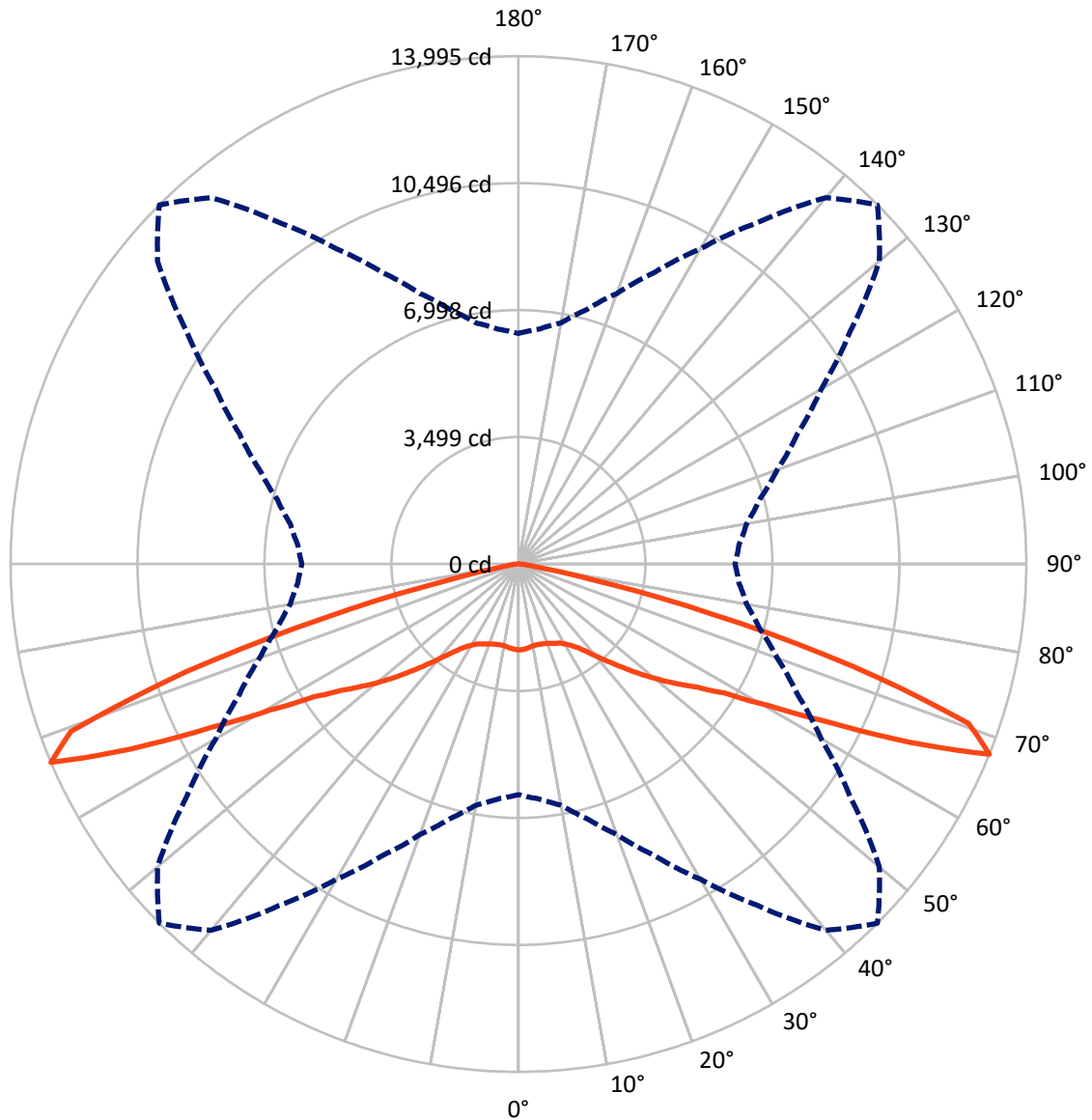
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11889.5 | 0.0 | 11889.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11889.5 | 0.0 | 11889.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23779.0 | 0.0 | 23779.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 221.8 | 0.9 |
| 10°-20° | 643.6 | 2.7 |
| 20°-30° | 1094.1 | 4.6 |
| 30°-40° | 1788.5 | 7.5 |
| 40°-50° | 3192.8 | 13.4 |
| 50°-60° | 5383.2 | 22.6 |
| 60°-70° | 8353.9 | 35.1 |
| 70°-80° | 2935.2 | 12.3 |
| 80°-90° | 165.9 | 0.7 |
| 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° | 23779.0 | 100.0 |
| 0°-180° | 23779.0 | 100.0 |



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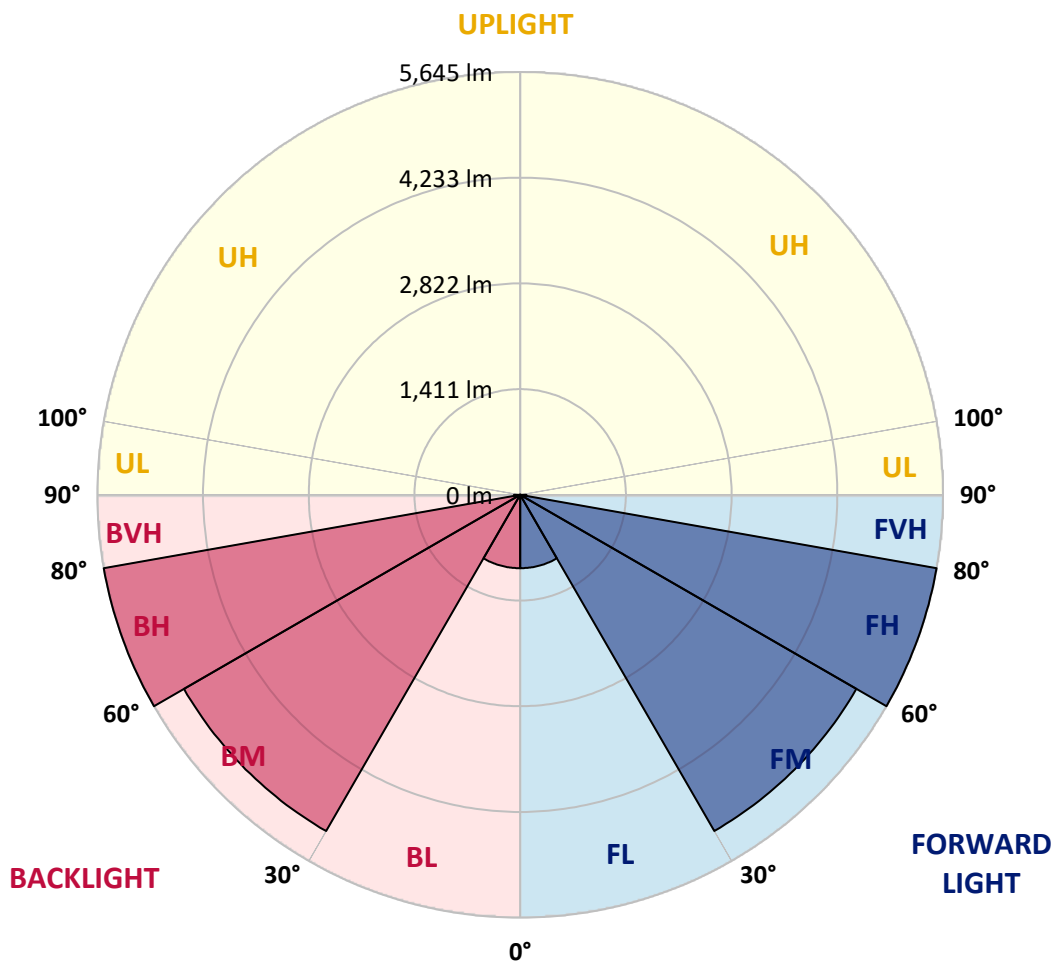
CATALOG NUMBER: GLEON-AF-07-LED-E1-5MQ-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 979.7 | 4.1 | | | |
| FM | (30°-60°) | 5182.3 | 21.8 | | | |
| FH | (60°-80°) | 5644.6 | 23.7 | | | G3/7500 |
| FVH | (80°-90°) | 82.9 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 979.7 | 4.1 | B2/1000 | | |
| BM | (30°-60°) | 5182.3 | 21.8 | B4/8500 | | |
| BH | (60°-80°) | 5644.6 | 23.7 | B5 | | G3/7500 |
| BVH | (80°-90°) | 82.9 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 2369.7 | 2369.7 | 2369.7 | 2369.7 | 2369.7 | 2369.7 | 2369.7 | 2369.7 | 2369.7 | 2369.7 | 2369.7 |
| 2.5° | 2360.9 | 2363.1 | 2363.1 | 2363.1 | 2362.0 | 2362.0 | 2359.8 | 2362.0 | 2360.9 | 2357.6 | 2358.7 |
| 5° | 2341.2 | 2343.4 | 2343.4 | 2342.3 | 2345.6 | 2344.5 | 2341.2 | 2343.4 | 2342.3 | 2340.2 | 2341.2 |
| 7.5° | 2312.8 | 2316.1 | 2316.1 | 2315.0 | 2318.3 | 2317.2 | 2315.0 | 2316.1 | 2316.1 | 2312.8 | 2312.8 |
| 10° | 2281.1 | 2283.3 | 2283.3 | 2282.2 | 2287.7 | 2287.7 | 2286.6 | 2289.9 | 2290.9 | 2287.7 | 2285.5 |
| 12.5° | 2251.6 | 2254.9 | 2254.9 | 2259.2 | 2264.7 | 2266.9 | 2272.4 | 2276.7 | 2281.1 | 2280.0 | 2275.6 |
| 15° | 2234.1 | 2236.3 | 2240.6 | 2246.1 | 2254.9 | 2262.5 | 2271.3 | 2281.1 | 2289.9 | 2292.0 | 2285.5 |
| 17.5° | 2223.1 | 2226.4 | 2233.0 | 2240.6 | 2252.7 | 2265.8 | 2278.9 | 2292.0 | 2304.1 | 2308.4 | 2300.8 |
| 20° | 2219.9 | 2222.1 | 2228.6 | 2241.7 | 2258.1 | 2277.8 | 2296.4 | 2311.7 | 2328.1 | 2333.6 | 2328.1 |
| 22.5° | 2226.4 | 2230.8 | 2238.5 | 2253.8 | 2275.6 | 2300.8 | 2322.7 | 2343.4 | 2364.2 | 2374.1 | 2366.4 |
| 25° | 2256.0 | 2260.3 | 2270.2 | 2289.9 | 2313.9 | 2340.2 | 2365.3 | 2389.4 | 2408.0 | 2417.8 | 2412.3 |
| 27.5° | 2310.6 | 2316.1 | 2328.1 | 2347.8 | 2374.1 | 2402.5 | 2429.8 | 2449.5 | 2464.8 | 2468.1 | 2461.5 |
| 30° | 2392.6 | 2404.7 | 2418.9 | 2440.8 | 2471.4 | 2495.4 | 2522.8 | 2540.3 | 2558.9 | 2558.9 | 2553.4 |
| 32.5° | 2520.6 | 2532.6 | 2547.9 | 2568.7 | 2592.8 | 2619.0 | 2643.1 | 2658.4 | 2678.1 | 2679.1 | 2666.0 |
| 35° | 2712.0 | 2717.4 | 2730.5 | 2743.7 | 2765.5 | 2788.5 | 2809.3 | 2819.1 | 2835.5 | 2836.6 | 2824.6 |
| 37.5° | 2964.6 | 2965.7 | 2974.4 | 2978.8 | 2998.5 | 3023.6 | 3043.3 | 3049.9 | 3065.2 | 3063.0 | 3050.9 |
| 40° | 3258.7 | 3264.2 | 3267.5 | 3274.0 | 3294.8 | 3318.9 | 3339.6 | 3342.9 | 3359.3 | 3356.0 | 3340.7 |
| 42.5° | 3598.8 | 3601.0 | 3619.6 | 3629.4 | 3649.1 | 3661.1 | 3687.4 | 3690.7 | 3710.3 | 3701.6 | 3684.1 |
| 45° | 3980.4 | 4000.1 | 4017.6 | 4037.3 | 4058.1 | 4072.3 | 4093.1 | 4088.7 | 4101.8 | 4088.7 | 4078.9 |
| 47.5° | 4381.8 | 4396.0 | 4435.4 | 4466.0 | 4499.9 | 4511.9 | 4541.4 | 4528.3 | 4541.4 | 4522.8 | 4519.6 |
| 50° | 4823.6 | 4848.7 | 4882.6 | 4917.6 | 4953.7 | 4973.4 | 5011.6 | 4995.2 | 5012.7 | 4995.2 | 4985.4 |
| 52.5° | 5258.8 | 5265.3 | 5339.7 | 5391.1 | 5441.4 | 5464.4 | 5487.3 | 5479.7 | 5480.8 | 5479.7 | 5469.8 |
| 55° | 5672.1 | 5687.4 | 5761.8 | 5831.8 | 5919.3 | 5983.8 | 6023.2 | 6018.8 | 6008.9 | 5999.1 | 5982.7 |
| 57.5° | 6138.0 | 6153.3 | 6238.6 | 6325.0 | 6424.5 | 6516.3 | 6596.2 | 6678.2 | 6709.9 | 6718.6 | 6682.6 |
| 60° | 6767.9 | 6766.8 | 6880.5 | 6985.5 | 7127.6 | 7264.3 | 7439.3 | 7617.5 | 7822.0 | 7917.2 | 7791.4 |
| 62.5° | 7408.7 | 7434.9 | 7598.9 | 7784.8 | 8077.9 | 8363.3 | 8685.9 | 9003.0 | 9326.7 | 9590.3 | 9310.3 |
| 65° | 7332.1 | 7432.7 | 7676.6 | 8097.6 | 8638.9 | 9281.9 | 9977.4 | 10713.3 | 11378.2 | 11835.3 | 11322.4 |
| 67.5° | 6354.5 | 6497.8 | 6746.0 | 7257.8 | 7934.6 | 8862.0 | 10029.8 | 11485.3 | 13177.0 | 13995.0 | 12981.3 |
| 70° | 4605.9 | 4767.8 | 5028.0 | 5527.8 | 6198.1 | 7079.5 | 8348.0 | 10095.5 | 12335.0 | 13159.5 | 12043.0 |
| 72.5° | 2292.0 | 2379.5 | 2540.3 | 2858.5 | 3365.9 | 4081.1 | 5231.4 | 6911.1 | 8892.6 | 9649.3 | 8629.0 |
| 75° | 778.6 | 819.1 | 846.4 | 950.3 | 1111.0 | 1392.1 | 1964.0 | 3021.4 | 4609.2 | 5525.6 | 4543.6 |
| 77.5° | 449.4 | 450.5 | 469.1 | 487.7 | 515.1 | 545.7 | 622.2 | 816.9 | 1412.8 | 2006.6 | 1462.0 |
| 80° | 290.9 | 289.8 | 305.1 | 319.3 | 337.9 | 353.2 | 357.6 | 378.4 | 436.3 | 517.2 | 462.6 |
| 82.5° | 150.9 | 169.5 | 203.4 | 222.0 | 257.0 | 263.5 | 254.8 | 247.1 | 261.4 | 271.2 | 277.8 |
| 85° | 83.1 | 72.2 | 108.3 | 140.0 | 155.3 | 157.5 | 157.5 | 148.7 | 154.2 | 150.9 | 164.0 |
| 87.5° | 38.3 | 35.0 | 42.6 | 68.9 | 73.3 | 62.3 | 65.6 | 58.0 | 41.6 | 40.5 | 45.9 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2369.7 | 2369.7 | 2369.7 | 2369.7 | 2369.7 | 2369.7 | 2369.7 | 2369.7 |
| 2.5° | 2358.7 | 2359.8 | 2359.8 | 2363.1 | 2364.2 | 2366.4 | 2368.6 | 2369.7 |
| 5° | 2340.2 | 2343.4 | 2341.2 | 2344.5 | 2344.5 | 2346.7 | 2346.7 | 2347.8 |
| 7.5° | 2312.8 | 2316.1 | 2316.1 | 2316.1 | 2315.0 | 2318.3 | 2318.3 | 2318.3 |
| 10° | 2284.4 | 2286.6 | 2285.5 | 2283.3 | 2281.1 | 2284.4 | 2283.3 | 2282.2 |
| 12.5° | 2275.6 | 2270.2 | 2265.8 | 2263.6 | 2259.2 | 2260.3 | 2257.0 | 2257.0 |
| 15° | 2281.1 | 2271.3 | 2263.6 | 2260.3 | 2256.0 | 2253.8 | 2251.6 | 2252.7 |
| 17.5° | 2295.3 | 2283.3 | 2273.4 | 2268.0 | 2262.5 | 2259.2 | 2254.9 | 2256.0 |
| 20° | 2320.5 | 2306.3 | 2292.0 | 2281.1 | 2271.3 | 2265.8 | 2262.5 | 2261.4 |
| 22.5° | 2357.6 | 2336.9 | 2316.1 | 2299.7 | 2286.6 | 2278.9 | 2275.6 | 2273.4 |
| 25° | 2400.3 | 2377.3 | 2353.3 | 2334.7 | 2321.6 | 2311.7 | 2305.2 | 2305.2 |
| 27.5° | 2453.9 | 2435.3 | 2413.4 | 2391.5 | 2379.5 | 2369.7 | 2365.3 | 2363.1 |
| 30° | 2543.5 | 2526.1 | 2508.6 | 2487.8 | 2472.5 | 2462.6 | 2455.0 | 2448.4 |
| 32.5° | 2658.4 | 2644.2 | 2629.9 | 2614.6 | 2600.4 | 2587.3 | 2575.3 | 2569.8 |
| 35° | 2820.2 | 2809.3 | 2799.4 | 2781.9 | 2776.5 | 2768.8 | 2762.3 | 2756.8 |
| 37.5° | 3043.3 | 3038.9 | 3038.9 | 3020.3 | 3016.0 | 3012.7 | 3006.1 | 3007.2 |
| 40° | 3336.4 | 3340.7 | 3335.3 | 3328.7 | 3325.4 | 3316.7 | 3316.7 | 3324.3 |
| 42.5° | 3683.0 | 3686.3 | 3698.3 | 3687.4 | 3699.4 | 3688.5 | 3681.9 | 3687.4 |
| 45° | 4085.4 | 4097.5 | 4121.5 | 4110.6 | 4118.2 | 4099.6 | 4076.7 | 4077.8 |
| 47.5° | 4537.1 | 4548.0 | 4557.8 | 4550.2 | 4551.3 | 4520.6 | 4490.0 | 4482.4 |
| 50° | 5006.2 | 5010.6 | 5016.0 | 5005.1 | 5007.3 | 4973.4 | 4938.4 | 4939.5 |
| 52.5° | 5469.8 | 5490.6 | 5512.5 | 5483.0 | 5476.4 | 5438.1 | 5388.9 | 5369.2 |
| 55° | 6000.2 | 6029.7 | 6004.6 | 5953.2 | 5901.8 | 5850.4 | 5785.9 | 5774.9 |
| 57.5° | 6654.1 | 6603.8 | 6525.1 | 6427.8 | 6356.7 | 6284.5 | 6218.9 | 6191.6 |
| 60° | 7563.9 | 7374.8 | 7232.6 | 7088.3 | 6997.5 | 6908.9 | 6822.5 | 6809.4 |
| 62.5° | 8849.9 | 8523.0 | 8239.7 | 7941.2 | 7697.4 | 7507.1 | 7355.1 | 7312.4 |
| 65° | 10461.8 | 9688.7 | 9018.3 | 8392.8 | 7849.4 | 7439.3 | 7181.2 | 7067.5 |
| 67.5° | 11155.1 | 9628.5 | 8479.2 | 7591.3 | 6880.5 | 6384.0 | 6105.2 | 5966.3 |
| 70° | 9802.4 | 7984.9 | 6735.0 | 5846.0 | 5198.6 | 4669.4 | 4416.8 | 4268.0 |
| 72.5° | 6743.8 | 5079.4 | 4016.5 | 3278.4 | 2761.2 | 2318.3 | 2143.3 | 2130.2 |
| 75° | 3028.0 | 2005.5 | 1382.2 | 1065.1 | 896.7 | 779.7 | 743.6 | 716.3 |
| 77.5° | 847.5 | 626.6 | 558.8 | 522.7 | 487.7 | 447.3 | 431.9 | 435.2 |
| 80° | 412.3 | 389.3 | 374.0 | 351.0 | 319.3 | 285.4 | 270.1 | 276.7 |
| 82.5° | 273.4 | 270.1 | 279.9 | 263.5 | 217.6 | 184.8 | 155.3 | 142.2 |
| 85° | 166.2 | 168.4 | 171.7 | 172.8 | 146.5 | 102.8 | 70.0 | 78.7 |
| 87.5° | 65.6 | 75.5 | 82.0 | 85.3 | 79.8 | 49.2 | 39.4 | 40.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)