

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: P318510

Luminaire Tested: **GLEON-SA6A-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20494 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

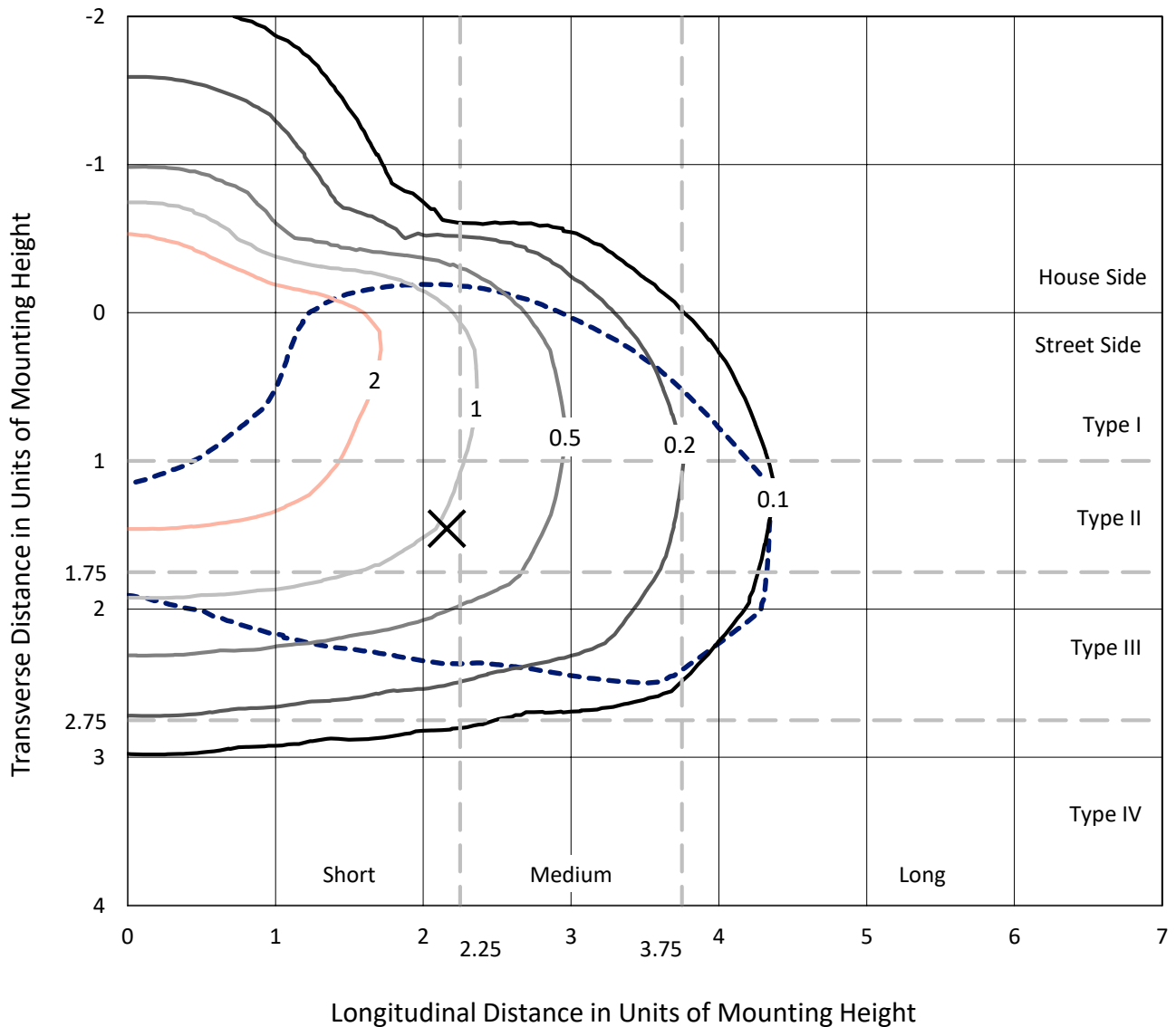
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

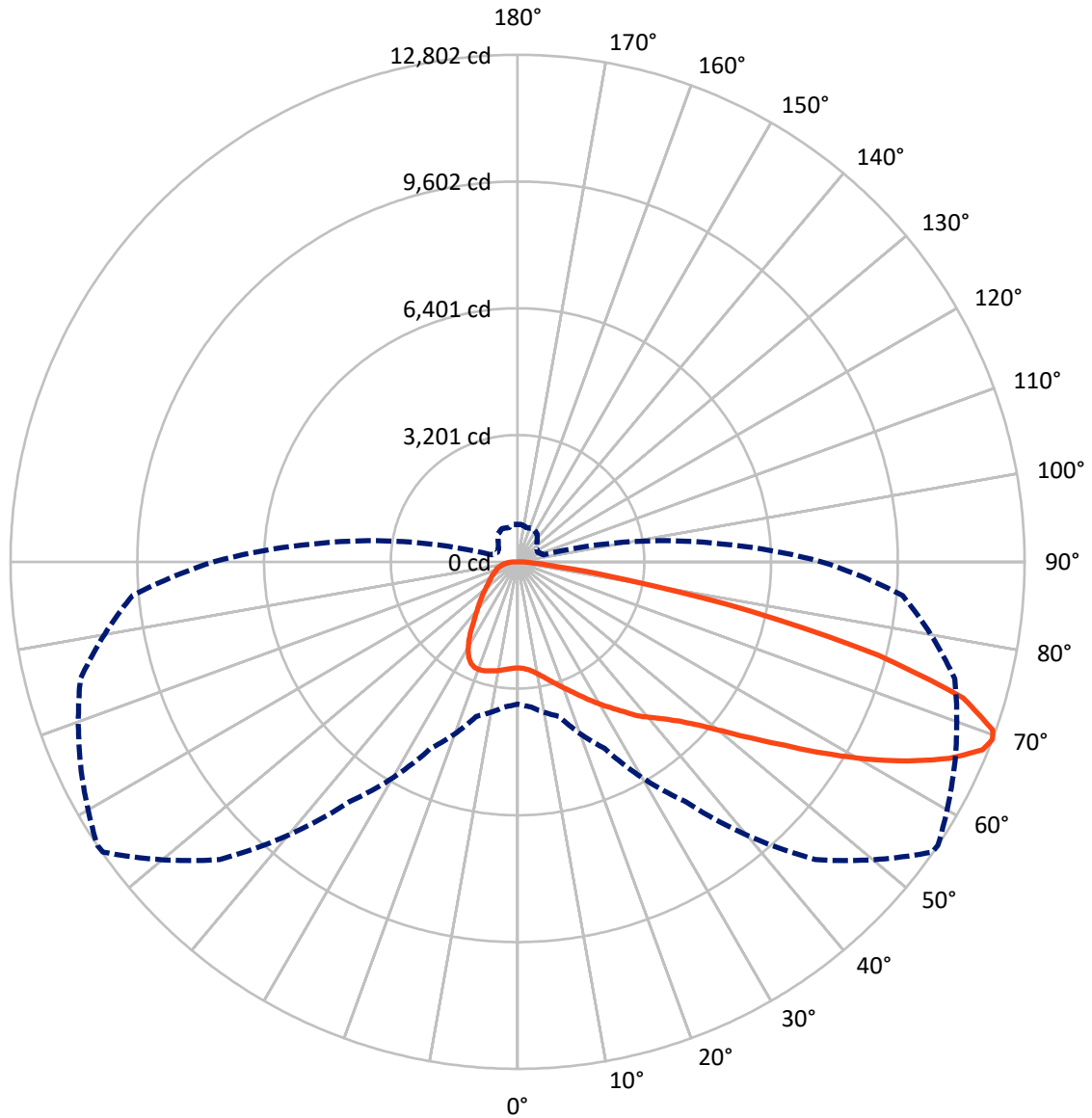
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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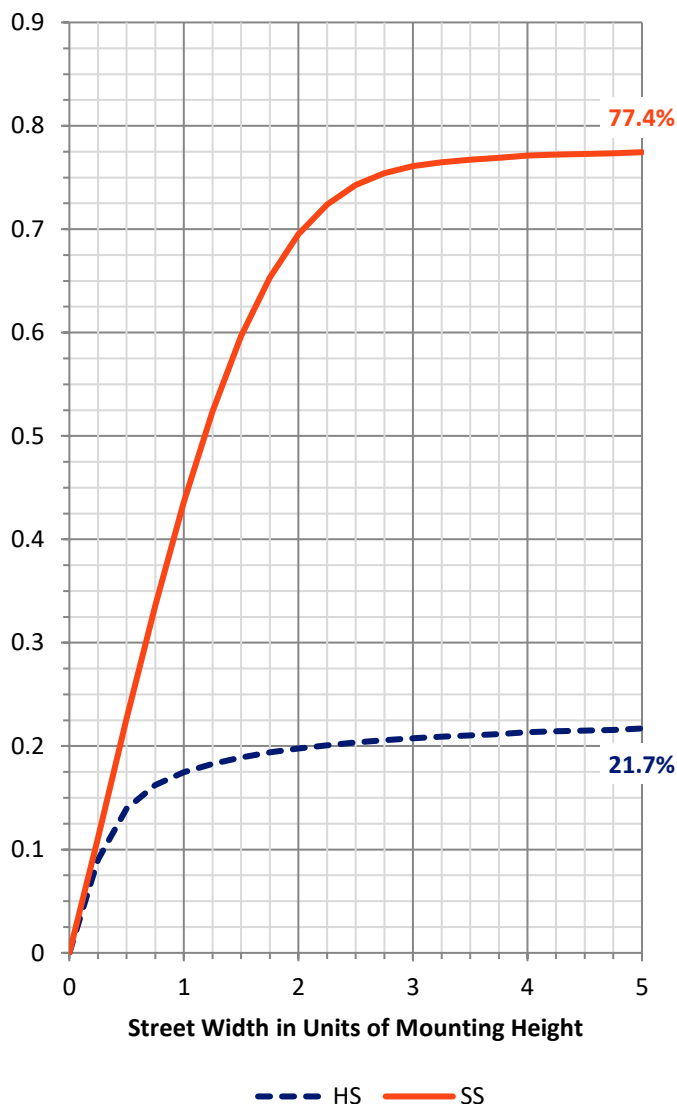
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4564.0 | 0.0 | 4564.0 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 15930.0 | 0.0 | 15930.0 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 20494.0 | 0.0 | 20494.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 263.1 | 1.3 |
| 10°-20° | 846.2 | 4.1 |
| 20°-30° | 1477.1 | 7.2 |
| 30°-40° | 2121.8 | 10.4 |
| 40°-50° | 2936.5 | 14.3 |
| 50°-60° | 4302.3 | 21.0 |
| 60°-70° | 5245.4 | 25.6 |
| 70°-80° | 2900.0 | 14.2 |
| 80°-90° | 401.6 | 2.0 |
| 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° | 20494.0 | 100.0 |
| 0°-180° | 20494.0 | 100.0 |

Coefficient of Utilization



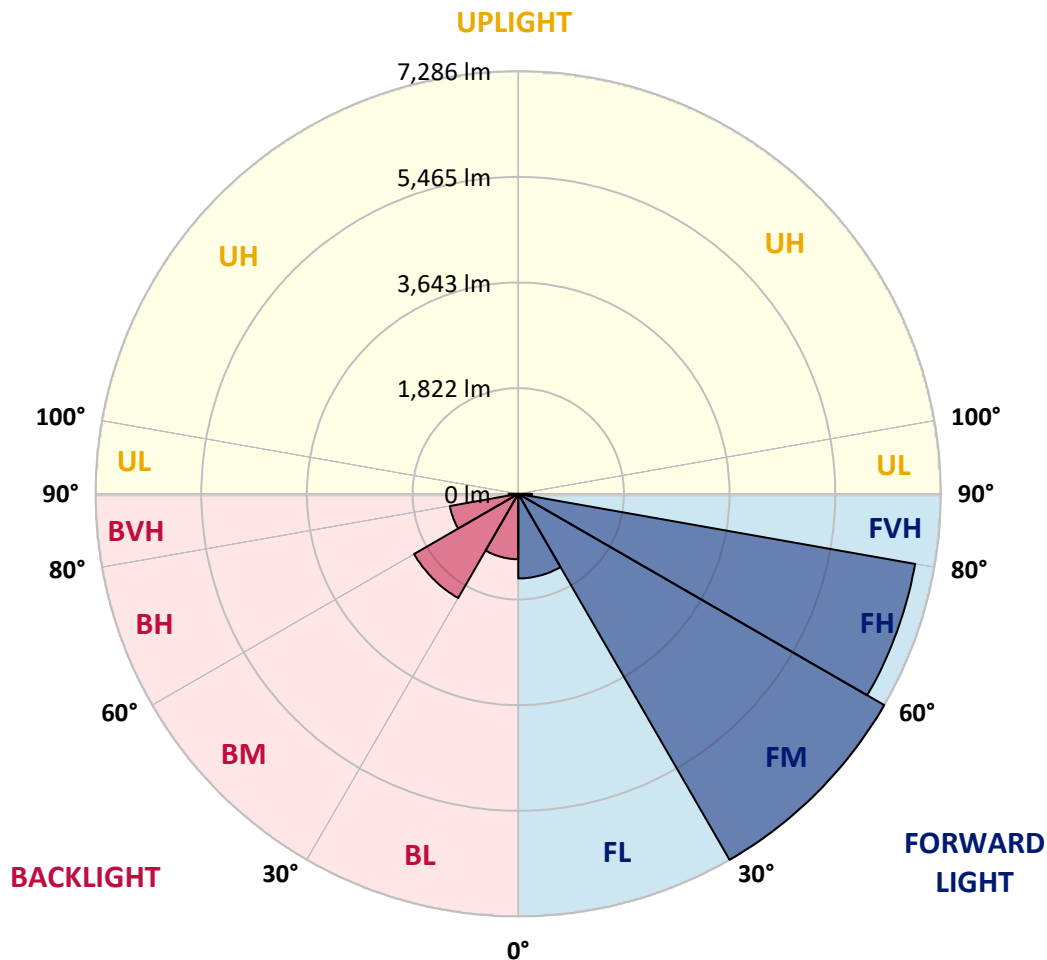
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1458.6 | 7.1 | | | |
| FM (30°-60°) | 7286.4 | 35.6 | | | |
| FH (60°-80°) | 6948.5 | 33.9 | | | G3/7500 |
| FVH (80°-90°) | 236.6 | 1.2 | | | G3/500 |
| BL (0°-30°) | 1127.9 | 5.5 | B3/2500 | | |
| BM (30°-60°) | 2074.2 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 1196.8 | 5.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 165.1 | 0.8 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 2679.3 | 2679.3 | 2679.3 | 2679.3 | 2679.3 | 2679.3 | 2679.3 | 2679.3 | 2679.3 | 2679.3 | 2679.3 |
| 2.5° | 2696.2 | 2699.1 | 2696.9 | 2702.6 | 2696.2 | 2700.5 | 2696.9 | 2696.9 | 2694.8 | 2688.5 | 2681.4 |
| 5° | 2738.6 | 2744.2 | 2740.7 | 2746.4 | 2738.6 | 2740.0 | 2733.6 | 2733.6 | 2727.3 | 2713.9 | 2699.8 |
| 7.5° | 2805.0 | 2811.3 | 2808.5 | 2814.1 | 2803.5 | 2803.5 | 2795.1 | 2794.4 | 2781.7 | 2759.8 | 2743.5 |
| 10° | 2884.0 | 2892.5 | 2889.7 | 2898.1 | 2889.7 | 2892.5 | 2884.0 | 2884.0 | 2867.1 | 2836.0 | 2815.5 |
| 12.5° | 2999.1 | 3009.7 | 3001.9 | 3001.2 | 2997.7 | 3003.3 | 2996.3 | 2994.9 | 2979.3 | 2937.0 | 2908.7 |
| 15° | 3153.0 | 3164.3 | 3148.1 | 3146.7 | 3126.9 | 3124.8 | 3124.8 | 3122.7 | 3112.8 | 3061.9 | 3015.3 |
| 17.5° | 3330.2 | 3333.7 | 3319.6 | 3297.0 | 3271.6 | 3255.4 | 3253.3 | 3258.9 | 3258.9 | 3199.6 | 3125.5 |
| 20° | 3503.9 | 3510.2 | 3499.0 | 3473.5 | 3441.1 | 3417.1 | 3400.1 | 3411.4 | 3410.7 | 3340.1 | 3234.9 |
| 22.5° | 3693.1 | 3707.9 | 3691.0 | 3658.5 | 3620.4 | 3593.6 | 3563.9 | 3573.8 | 3574.5 | 3487.7 | 3342.2 |
| 25° | 3938.1 | 3924.7 | 3914.1 | 3868.2 | 3813.8 | 3786.3 | 3758.8 | 3768.6 | 3765.8 | 3646.5 | 3453.1 |
| 27.5° | 4154.8 | 4157.7 | 4143.5 | 4094.8 | 4032.0 | 3971.3 | 3969.9 | 3976.2 | 3965.6 | 3811.7 | 3557.5 |
| 30° | 4406.9 | 4408.3 | 4388.5 | 4344.7 | 4276.3 | 4197.9 | 4179.5 | 4190.1 | 4167.5 | 3968.4 | 3667.7 |
| 32.5° | 4657.5 | 4664.6 | 4642.7 | 4589.7 | 4534.7 | 4439.3 | 4402.6 | 4409.7 | 4353.2 | 4128.7 | 3781.4 |
| 35° | 4877.1 | 4887.0 | 4879.9 | 4844.6 | 4784.6 | 4702.7 | 4658.9 | 4654.7 | 4584.8 | 4325.0 | 3931.7 |
| 37.5° | 5100.9 | 5110.1 | 5102.3 | 5072.6 | 5048.6 | 4961.8 | 4938.5 | 4938.5 | 4817.1 | 4525.5 | 4123.1 |
| 40° | 5331.0 | 5345.1 | 5336.0 | 5295.0 | 5274.5 | 5235.0 | 5179.2 | 5165.8 | 5034.5 | 4766.2 | 4435.1 |
| 42.5° | 5544.9 | 5563.3 | 5600.0 | 5576.0 | 5534.4 | 5540.0 | 5427.8 | 5420.7 | 5324.7 | 5122.1 | 4826.9 |
| 45° | 5848.5 | 5875.4 | 5937.5 | 5919.1 | 5910.7 | 5879.6 | 5746.2 | 5739.8 | 5703.1 | 5600.7 | 5313.4 |
| 47.5° | 6179.6 | 6216.4 | 6328.6 | 6332.1 | 6423.2 | 6364.6 | 6183.2 | 6161.3 | 6169.8 | 6174.0 | 5907.1 |
| 50° | 6484.6 | 6524.9 | 6709.1 | 6796.0 | 7010.6 | 7023.3 | 6733.2 | 6713.4 | 6746.6 | 6844.0 | 6599.0 |
| 52.5° | 6728.2 | 6779.0 | 7009.2 | 7277.5 | 7645.3 | 7749.8 | 7410.2 | 7395.4 | 7420.1 | 7588.1 | 7381.3 |
| 55° | 6906.8 | 6961.9 | 7212.5 | 7701.1 | 8288.5 | 8472.7 | 8189.6 | 8175.5 | 8191.0 | 8405.0 | 8232.0 |
| 57.5° | 6948.5 | 6961.9 | 7325.5 | 7986.3 | 8831.4 | 9274.1 | 9143.4 | 9115.2 | 9039.0 | 9225.3 | 9171.0 |
| 60° | 6752.9 | 6806.6 | 7232.3 | 8086.6 | 9251.5 | 10064.1 | 10140.3 | 10105.0 | 9891.1 | 10043.6 | 9999.8 |
| 62.5° | 6356.1 | 6452.2 | 6884.2 | 7934.1 | 9416.0 | 10709.4 | 11118.1 | 11075.8 | 10707.2 | 10806.1 | 10595.7 |
| 65° | 5708.0 | 5749.0 | 6202.9 | 7408.1 | 9207.0 | 11122.4 | 11990.1 | 11968.9 | 11505.0 | 11350.4 | 10705.8 |
| 67.5° | 4548.8 | 4625.7 | 5011.2 | 6308.8 | 8352.0 | 11073.7 | 12664.3 | 12662.2 | 12026.1 | 11552.3 | 10315.4 |
| 69° | 3593.6 | 3673.3 | 4040.5 | 5196.9 | 7390.4 | 10628.2 | 12777.2 | 12802.0 | 12172.9 | 11429.5 | 9757.7 |
| 70° | 2865.0 | 2957.4 | 3209.5 | 4377.2 | 6536.9 | 10040.8 | 12683.3 | 12727.8 | 12144.7 | 11226.9 | 9243.0 |
| 72.5° | 1219.3 | 1294.1 | 1473.4 | 2256.4 | 3984.0 | 7497.8 | 11596.8 | 11764.8 | 11490.2 | 10275.2 | 7639.0 |
| 75° | 532.3 | 555.6 | 636.8 | 919.9 | 1768.5 | 4080.7 | 9084.8 | 9395.5 | 9824.7 | 8685.3 | 5690.4 |
| 77.5° | 389.7 | 399.6 | 444.1 | 540.1 | 793.5 | 1541.2 | 5842.2 | 6022.9 | 7085.4 | 6320.1 | 3490.5 |
| 80° | 301.5 | 308.5 | 343.1 | 396.8 | 518.2 | 623.4 | 2664.5 | 2819.8 | 3984.0 | 3246.2 | 1453.7 |
| 82.5° | 240.0 | 245.0 | 269.0 | 292.3 | 357.9 | 377.7 | 884.6 | 981.3 | 1470.6 | 896.6 | 384.8 |
| 85° | 223.1 | 228.7 | 237.2 | 213.2 | 229.5 | 221.7 | 382.7 | 400.3 | 444.1 | 352.3 | 161.0 |
| 87.5° | 101.0 | 119.3 | 235.1 | 165.9 | 122.1 | 97.4 | 156.7 | 163.8 | 184.3 | 185.0 | 71.3 |
| 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° | 2679.3 | 2679.3 | 2679.3 | 2679.3 | 2679.3 | 2679.3 | 2679.3 | 2679.3 | 2679.3 | 2679.3 | 2679.3 |
| 2.5° | 2685.6 | 2683.5 | 2687.0 | 2678.6 | 2689.2 | 2688.5 | 2684.9 | 2686.3 | 2693.4 | 2692.7 | 2693.4 |
| 5° | 2701.9 | 2700.5 | 2704.7 | 2698.3 | 2711.1 | 2715.3 | 2716.0 | 2722.3 | 2730.1 | 2732.2 | 2732.2 |
| 7.5° | 2742.8 | 2742.8 | 2744.9 | 2736.5 | 2744.9 | 2744.2 | 2740.7 | 2747.1 | 2754.8 | 2755.5 | 2754.8 |
| 10° | 2813.4 | 2814.1 | 2810.6 | 2788.7 | 2781.7 | 2762.6 | 2744.9 | 2745.6 | 2755.5 | 2763.3 | 2765.4 |
| 12.5° | 2902.4 | 2899.6 | 2884.0 | 2843.8 | 2814.1 | 2775.3 | 2756.9 | 2756.2 | 2766.1 | 2772.5 | 2774.6 |
| 15° | 3004.0 | 2996.3 | 2956.0 | 2890.4 | 2838.1 | 2800.0 | 2770.4 | 2763.3 | 2757.6 | 2750.6 | 2751.3 |
| 17.5° | 3100.1 | 3082.4 | 3015.3 | 2924.3 | 2869.2 | 2818.4 | 2761.2 | 2715.3 | 2683.5 | 2665.2 | 2659.5 |
| 20° | 3197.5 | 3162.9 | 3066.2 | 2956.0 | 2886.1 | 2793.7 | 2683.5 | 2590.3 | 2532.4 | 2505.6 | 2500.7 |
| 22.5° | 3286.4 | 3230.7 | 3113.5 | 2989.2 | 2872.7 | 2710.3 | 2537.4 | 2401.8 | 2321.3 | 2285.3 | 2288.2 |
| 25° | 3373.3 | 3295.6 | 3162.9 | 3012.5 | 2805.0 | 2563.5 | 2334.0 | 2167.4 | 2074.2 | 2034.0 | 2032.6 |
| 27.5° | 3449.5 | 3361.3 | 3216.6 | 2993.5 | 2678.6 | 2354.5 | 2093.3 | 1930.9 | 1853.3 | 1818.7 | 1813.0 |
| 30° | 3537.1 | 3443.9 | 3287.9 | 2920.7 | 2493.6 | 2113.1 | 1858.2 | 1743.8 | 1688.8 | 1654.2 | 1647.8 |
| 32.5° | 3643.7 | 3556.1 | 3346.5 | 2788.7 | 2257.1 | 1861.0 | 1674.6 | 1594.9 | 1544.7 | 1505.9 | 1498.8 |
| 35° | 3799.0 | 3704.4 | 3361.3 | 2599.5 | 1997.3 | 1661.9 | 1539.8 | 1457.9 | 1390.1 | 1340.0 | 1335.1 |
| 37.5° | 3993.9 | 3890.1 | 3327.4 | 2354.5 | 1745.2 | 1532.7 | 1427.5 | 1326.6 | 1238.3 | 1167.7 | 1156.4 |
| 40° | 4274.8 | 4118.1 | 3233.5 | 2072.1 | 1559.6 | 1433.2 | 1318.1 | 1203.0 | 1093.6 | 1011.0 | 994.8 |
| 42.5° | 4612.3 | 4385.7 | 3089.5 | 1791.1 | 1423.3 | 1332.2 | 1209.4 | 1066.8 | 962.3 | 903.7 | 895.2 |
| 45° | 5041.6 | 4663.9 | 2889.7 | 1545.4 | 1289.2 | 1231.3 | 1092.2 | 960.9 | 895.9 | 852.9 | 845.8 |
| 47.5° | 5531.5 | 4975.9 | 2680.0 | 1345.6 | 1175.5 | 1136.7 | 998.3 | 913.6 | 862.0 | 828.1 | 821.8 |
| 50° | 6133.8 | 5328.2 | 2457.6 | 1181.8 | 1061.1 | 1023.0 | 953.8 | 887.4 | 846.5 | 820.4 | 814.0 |
| 52.5° | 6812.9 | 5725.7 | 2297.3 | 1052.7 | 966.5 | 939.0 | 930.5 | 873.3 | 840.1 | 820.4 | 814.0 |
| 55° | 7544.3 | 6130.2 | 2124.4 | 943.9 | 884.6 | 892.4 | 915.0 | 874.7 | 852.1 | 828.1 | 819.0 |
| 57.5° | 8276.5 | 6548.2 | 1931.6 | 852.1 | 819.7 | 857.8 | 904.4 | 877.6 | 858.5 | 835.2 | 826.7 |
| 60° | 8855.4 | 6812.9 | 1633.0 | 775.2 | 768.1 | 819.7 | 879.0 | 856.4 | 831.7 | 832.4 | 831.0 |
| 62.5° | 9125.8 | 6798.8 | 1303.3 | 706.7 | 716.6 | 768.1 | 838.0 | 823.2 | 802.7 | 830.3 | 832.4 |
| 65° | 8974.0 | 6459.9 | 1014.5 | 644.6 | 661.5 | 714.5 | 795.7 | 807.0 | 814.0 | 867.0 | 874.0 |
| 67.5° | 8337.2 | 5800.5 | 785.8 | 590.2 | 611.4 | 677.8 | 799.9 | 879.0 | 888.2 | 943.9 | 943.2 |
| 69° | 7678.5 | 5182.1 | 682.7 | 562.0 | 586.7 | 686.9 | 855.0 | 924.9 | 890.3 | 949.6 | 941.1 |
| 70° | 7126.4 | 4692.8 | 627.6 | 542.9 | 575.4 | 703.2 | 891.7 | 924.2 | 879.7 | 930.5 | 916.4 |
| 72.5° | 5488.5 | 3376.1 | 532.3 | 507.6 | 537.3 | 672.8 | 902.3 | 903.7 | 855.0 | 864.9 | 840.8 |
| 75° | 3764.4 | 2133.5 | 464.6 | 459.6 | 479.4 | 606.5 | 868.4 | 863.4 | 790.7 | 776.6 | 756.8 |
| 77.5° | 2075.6 | 1083.7 | 394.7 | 413.7 | 427.1 | 537.3 | 789.3 | 782.3 | 722.2 | 692.6 | 685.5 |
| 80° | 800.6 | 474.4 | 333.2 | 367.8 | 376.3 | 465.3 | 691.9 | 685.5 | 635.4 | 597.3 | 586.7 |
| 82.5° | 302.2 | 248.5 | 275.3 | 318.4 | 315.6 | 384.1 | 586.0 | 582.5 | 533.7 | 478.0 | 461.0 |
| 85° | 139.8 | 149.0 | 218.2 | 262.6 | 242.2 | 284.5 | 468.8 | 475.1 | 415.8 | 349.5 | 349.5 |
| 87.5° | 59.3 | 83.3 | 154.6 | 198.4 | 163.1 | 192.0 | 343.8 | 328.3 | 301.5 | 209.0 | 196.3 |
| 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)