

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: LUMARK

Report Number: P#

Luminaire Tested: **AXCL8A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29584)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: AXCL8A-W
Description: AXCENT CUTOFF WALLPACK
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8450.3 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.29' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

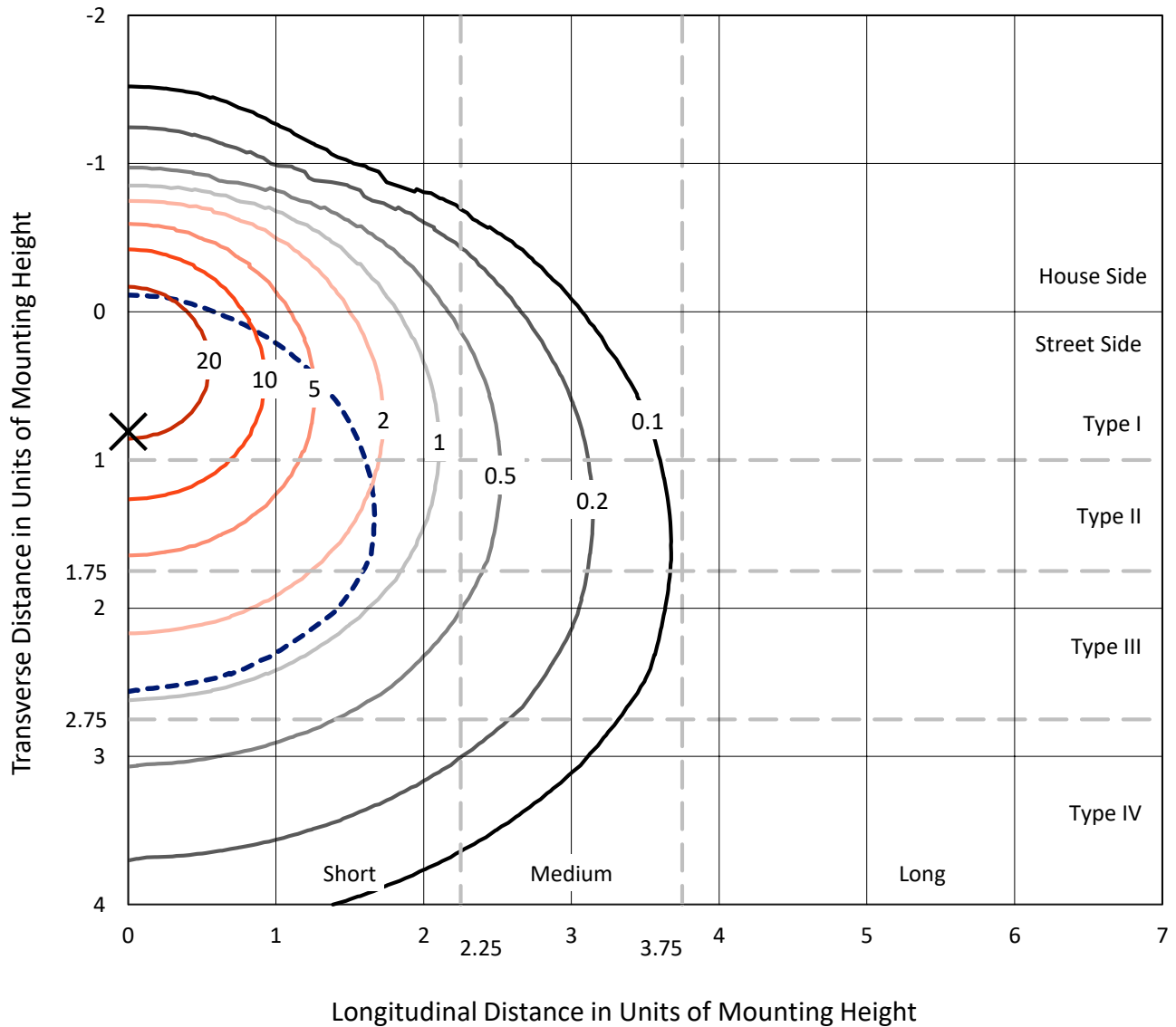
Input Watts (W): 72
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

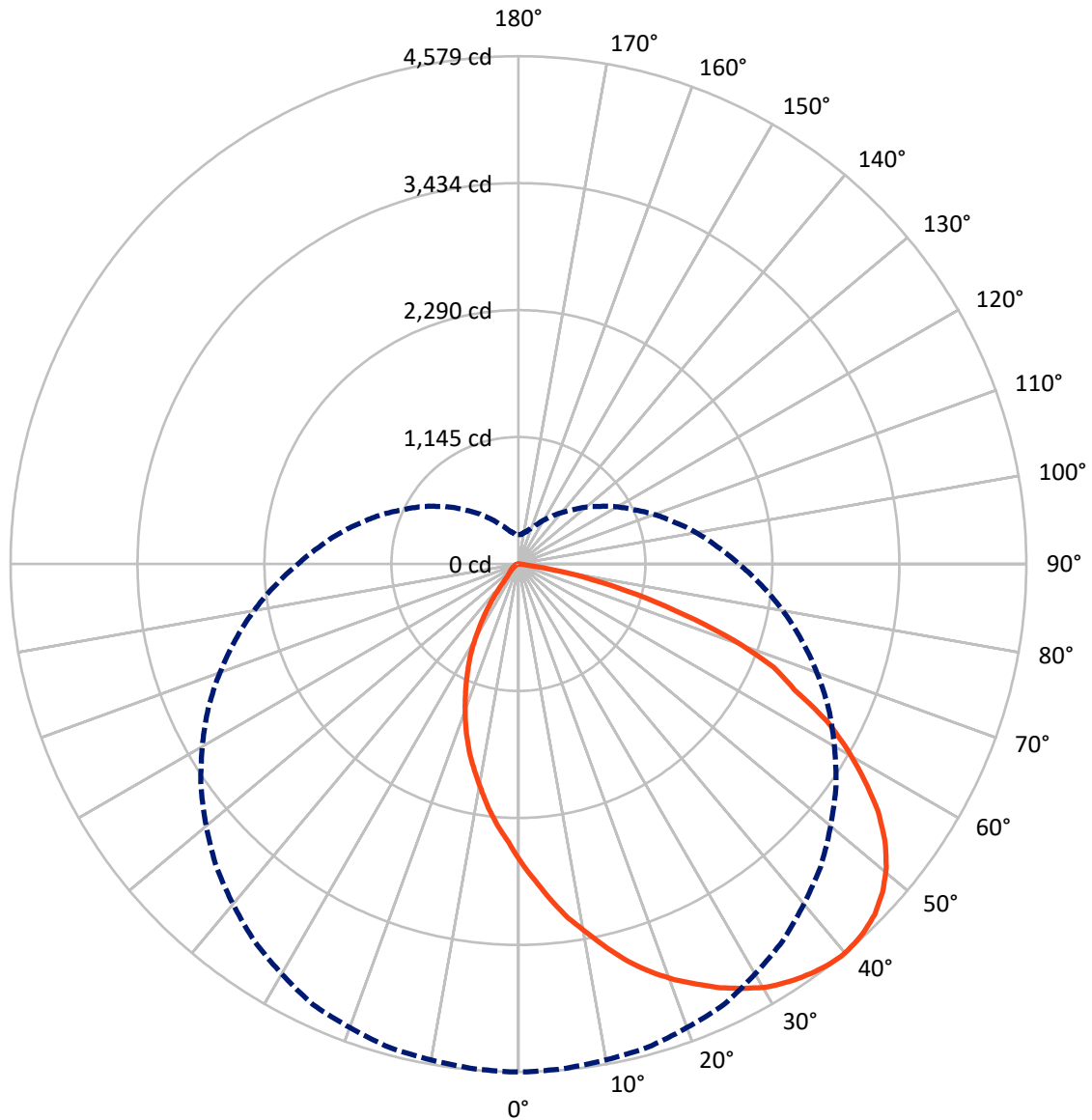
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 39-Deg Vertical

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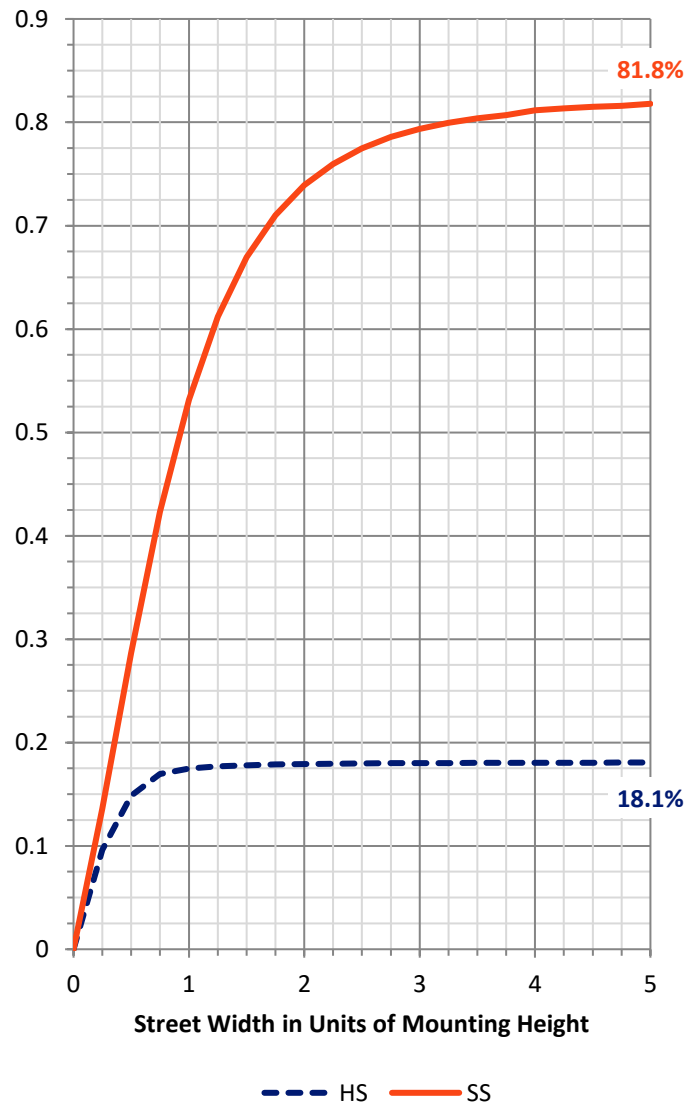
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1541.3 | 0.0 | 1541.3 |
| | % Fixture | 18.2 | 0.0 | 18.2 |
| Street Side | Lumens | 6909.0 | 0.0 | 6909.0 |
| | % Fixture | 81.8 | 0.0 | 81.8 |
| Total | Lumens | 8450.3 | 0.0 | 8450.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 257.5 | 3.0 |
| 10°-20° | 759.5 | 9.0 |
| 20°-30° | 1185.1 | 14.0 |
| 30°-40° | 1473.9 | 17.4 |
| 40°-50° | 1586.3 | 18.8 |
| 50°-60° | 1490.5 | 17.6 |
| 60°-70° | 1129.0 | 13.4 |
| 70°-80° | 522.7 | 6.2 |
| 80°-90° | 45.9 | 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° | 8450.3 | 100.0 |
| 0°-180° | 8450.3 | 100.0 |



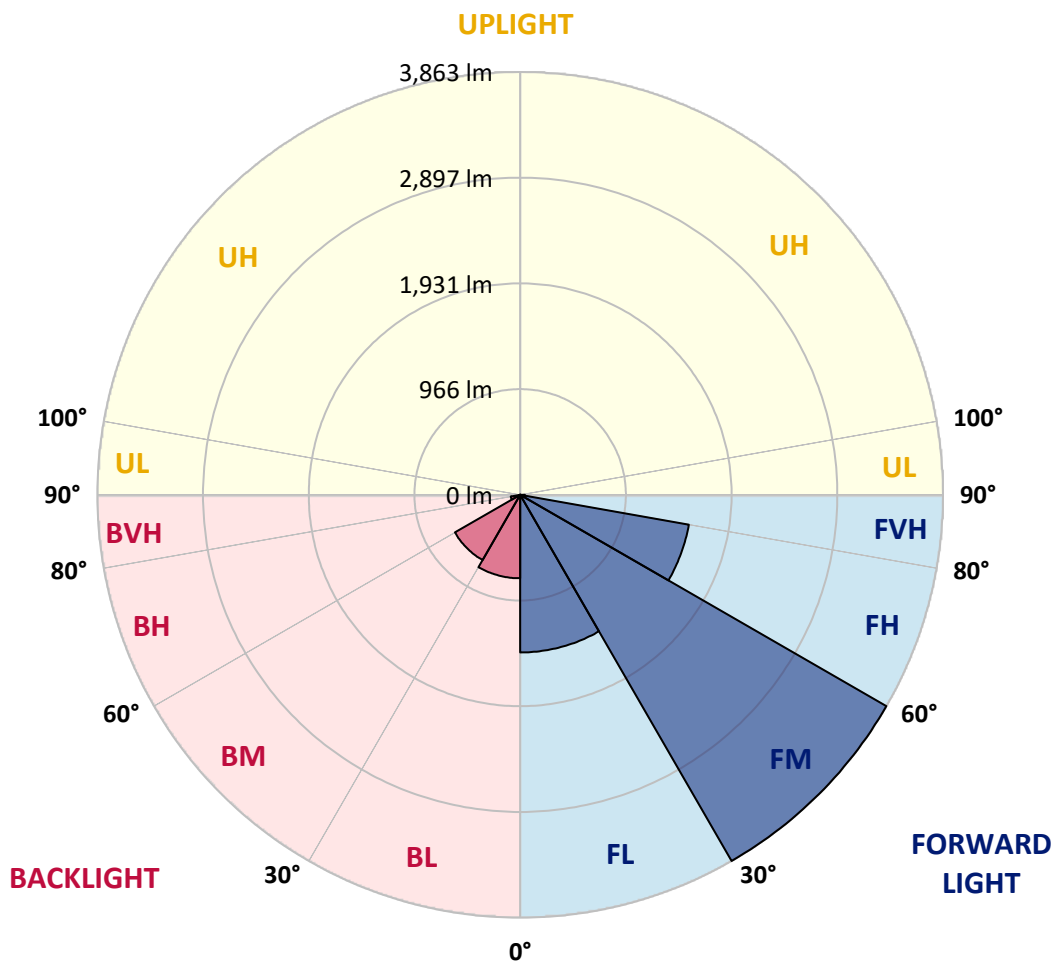
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1439.8 | 17.0 | | | |
| FM | (30°-60°) | 3862.6 | 45.7 | | | |
| FH | (60°-80°) | 1564.4 | 18.5 | | | G1/1800 |
| FVH | (80°-90°) | 42.2 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 762.4 | 9.0 | B2/1000 | | |
| BM | (30°-60°) | 688.0 | 8.1 | B1/1000 | | |
| BH | (60°-80°) | 87.3 | 1.0 | B0/110 | | G0/110 |
| 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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2688.7 | 2688.7 | 2688.7 | 2688.7 | 2688.7 | 2688.7 | 2688.7 | 2688.7 | 2688.7 | 2688.7 | 2688.7 |
| 2.5° | 2856.0 | 2844.7 | 2850.6 | 2840.4 | 2839.3 | 2827.5 | 2806.0 | 2789.9 | 2769.4 | 2737.1 | 2703.3 |
| 5° | 3041.0 | 3028.7 | 3034.0 | 3016.3 | 3005.5 | 2978.6 | 2935.1 | 2895.3 | 2849.0 | 2786.6 | 2724.8 |
| 7.5° | 3222.3 | 3213.2 | 3214.8 | 3192.7 | 3170.1 | 3124.9 | 3060.9 | 2994.8 | 2919.5 | 2829.7 | 2736.1 |
| 10° | 3379.3 | 3375.0 | 3381.5 | 3345.5 | 3313.7 | 3253.0 | 3170.7 | 3077.1 | 2972.7 | 2851.7 | 2731.2 |
| 12.5° | 3553.6 | 3541.2 | 3547.2 | 3507.4 | 3465.4 | 3385.8 | 3281.5 | 3162.1 | 3027.6 | 2875.9 | 2723.7 |
| 15° | 3720.9 | 3723.0 | 3719.8 | 3677.9 | 3624.6 | 3526.2 | 3399.2 | 3250.3 | 3084.6 | 2898.5 | 2714.6 |
| 17.5° | 3867.2 | 3875.3 | 3873.1 | 3829.5 | 3756.9 | 3648.3 | 3502.0 | 3323.4 | 3124.9 | 2906.0 | 2687.7 |
| 20° | 3998.4 | 4004.3 | 4000.6 | 3953.8 | 3870.9 | 3747.2 | 3581.6 | 3376.7 | 3145.4 | 2892.6 | 2645.2 |
| 22.5° | 4114.1 | 4117.8 | 4114.6 | 4063.0 | 3970.5 | 3832.8 | 3648.8 | 3416.5 | 3155.1 | 2874.8 | 2602.1 |
| 25° | 4233.5 | 4232.4 | 4229.7 | 4173.8 | 4072.6 | 3918.8 | 3713.4 | 3454.1 | 3168.5 | 2861.4 | 2561.8 |
| 27.5° | 4333.5 | 4342.1 | 4335.1 | 4282.4 | 4172.1 | 4000.0 | 3770.4 | 3487.5 | 3179.3 | 2844.7 | 2516.6 |
| 30° | 4427.1 | 4423.9 | 4418.5 | 4362.5 | 4246.4 | 4059.7 | 3807.5 | 3504.1 | 3175.0 | 2815.7 | 2462.8 |
| 32.5° | 4487.9 | 4487.9 | 4475.5 | 4421.7 | 4301.8 | 4100.6 | 3829.0 | 3511.1 | 3159.9 | 2775.3 | 2396.1 |
| 35° | 4537.4 | 4535.7 | 4523.9 | 4470.1 | 4347.0 | 4135.0 | 3846.7 | 3512.2 | 3140.0 | 2730.7 | 2325.2 |
| 37.5° | 4571.2 | 4570.2 | 4558.9 | 4502.9 | 4374.9 | 4150.1 | 3854.8 | 3504.1 | 3110.4 | 2676.9 | 2248.2 |
| 39° | 4579.3 | 4579.3 | 4568.5 | 4511.5 | 4384.1 | 4151.2 | 3854.8 | 3495.0 | 3086.8 | 2641.9 | 2199.3 |
| 40° | 4578.2 | 4578.2 | 4567.5 | 4512.1 | 4383.5 | 4146.3 | 3849.4 | 3483.7 | 3068.5 | 2615.6 | 2165.4 |
| 42.5° | 4555.6 | 4556.7 | 4546.0 | 4493.2 | 4365.8 | 4123.2 | 3819.3 | 3445.0 | 3012.5 | 2542.4 | 2074.5 |
| 45° | 4505.1 | 4505.1 | 4495.4 | 4445.9 | 4315.2 | 4072.6 | 3767.1 | 3381.5 | 2941.0 | 2454.8 | 1976.1 |
| 47.5° | 4419.0 | 4421.2 | 4410.4 | 4364.7 | 4232.4 | 4002.2 | 3697.8 | 3303.5 | 2853.3 | 2358.0 | 1864.2 |
| 50° | 4299.1 | 4302.3 | 4291.6 | 4246.9 | 4126.4 | 3904.3 | 3602.6 | 3205.6 | 2744.1 | 2250.4 | 1743.7 |
| 52.5° | 4137.2 | 4138.3 | 4133.4 | 4095.2 | 3986.6 | 3774.7 | 3480.5 | 3085.7 | 2623.7 | 2122.4 | 1615.2 |
| 55° | 3933.3 | 3937.6 | 3931.2 | 3895.2 | 3804.8 | 3613.3 | 3332.0 | 2942.1 | 2481.7 | 1987.9 | 1474.8 |
| 57.5° | 3680.0 | 3684.8 | 3680.5 | 3652.0 | 3581.6 | 3417.5 | 3154.0 | 2775.3 | 2339.1 | 1833.6 | 1327.4 |
| 60° | 3414.3 | 3420.8 | 3415.9 | 3389.6 | 3321.8 | 3191.1 | 2950.7 | 2586.5 | 2156.8 | 1668.4 | 1175.8 |
| 62.5° | 3121.7 | 3127.1 | 3122.8 | 3116.3 | 3052.3 | 2938.8 | 2731.8 | 2380.0 | 1970.2 | 1497.9 | 1021.4 |
| 65° | 2736.1 | 2743.6 | 2728.5 | 2756.5 | 2745.2 | 2632.8 | 2472.0 | 2158.4 | 1758.3 | 1302.7 | 870.3 |
| 67.5° | 2481.1 | 2483.3 | 2460.7 | 2435.4 | 2356.3 | 2335.9 | 2197.1 | 1919.6 | 1540.4 | 1118.2 | 718.6 |
| 70° | 2064.3 | 2024.0 | 2029.3 | 2063.2 | 2092.8 | 1978.8 | 1901.3 | 1659.3 | 1311.8 | 925.1 | 573.4 |
| 72.5° | 1566.8 | 1532.9 | 1541.5 | 1561.4 | 1612.5 | 1664.7 | 1546.9 | 1396.8 | 1079.5 | 746.5 | 429.2 |
| 75° | 1103.1 | 1068.7 | 1078.9 | 1095.6 | 1134.9 | 1182.7 | 1212.9 | 1084.3 | 833.1 | 563.7 | 312.5 |
| 77.5° | 687.9 | 677.7 | 665.9 | 676.6 | 706.7 | 749.2 | 785.8 | 779.4 | 596.5 | 393.7 | 204.4 |
| 80° | 327.0 | 317.9 | 312.0 | 320.6 | 339.9 | 390.5 | 422.2 | 422.2 | 366.8 | 241.0 | 116.2 |
| 82.5° | 60.2 | 58.6 | 58.1 | 65.6 | 74.2 | 116.7 | 153.8 | 171.6 | 166.2 | 111.3 | 47.9 |
| 85° | 28.0 | 26.4 | 26.9 | 27.4 | 28.0 | 31.2 | 32.8 | 39.3 | 46.3 | 30.7 | 15.6 |
| 87.5° | 9.7 | 10.2 | 10.2 | 11.3 | 10.8 | 11.8 | 12.4 | 13.4 | 12.4 | 9.7 | 8.1 |
| 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° | 2688.7 | 2688.7 | 2688.7 | 2688.7 | 2688.7 | 2688.7 | 2688.7 | 2688.7 | 2688.7 | 2688.7 | 2688.7 |
| 2.5° | 2686.1 | 2671.0 | 2642.5 | 2612.4 | 2585.5 | 2555.9 | 2537.1 | 2526.8 | 2514.5 | 2516.6 | 2509.6 |
| 5° | 2694.1 | 2662.9 | 2607.5 | 2552.1 | 2503.2 | 2453.7 | 2419.3 | 2395.6 | 2375.7 | 2374.1 | 2367.6 |
| 7.5° | 2690.4 | 2643.6 | 2561.3 | 2481.7 | 2410.7 | 2340.2 | 2290.2 | 2256.3 | 2226.7 | 2221.3 | 2215.4 |
| 10° | 2671.5 | 2612.4 | 2504.3 | 2397.8 | 2307.9 | 2218.7 | 2154.7 | 2108.9 | 2071.3 | 2062.1 | 2053.5 |
| 12.5° | 2649.5 | 2578.5 | 2444.0 | 2316.0 | 2209.0 | 2110.0 | 2028.3 | 1970.2 | 1927.1 | 1906.2 | 1904.0 |
| 15° | 2625.8 | 2540.3 | 2379.5 | 2234.3 | 2105.2 | 1997.1 | 1904.5 | 1836.8 | 1785.7 | 1761.5 | 1757.7 |
| 17.5° | 2585.5 | 2485.4 | 2302.6 | 2136.4 | 1991.1 | 1871.7 | 1768.5 | 1692.6 | 1634.5 | 1607.7 | 1601.7 |
| 20° | 2527.9 | 2417.1 | 2212.2 | 2026.1 | 1865.8 | 1733.0 | 1622.7 | 1541.0 | 1477.5 | 1444.7 | 1437.2 |
| 22.5° | 2470.4 | 2347.7 | 2122.4 | 1918.0 | 1742.1 | 1596.4 | 1475.3 | 1387.7 | 1319.4 | 1283.3 | 1276.3 |
| 25° | 2417.7 | 2285.9 | 2035.8 | 1814.7 | 1622.7 | 1463.0 | 1330.7 | 1229.0 | 1164.5 | 1125.2 | 1117.1 |
| 27.5° | 2359.6 | 2216.0 | 1945.4 | 1707.7 | 1501.7 | 1328.5 | 1185.4 | 1076.8 | 1007.4 | 964.9 | 971.9 |
| 30° | 2290.2 | 2134.7 | 1845.9 | 1586.1 | 1371.5 | 1188.7 | 1036.4 | 923.0 | 850.9 | 804.6 | 811.6 |
| 32.5° | 2211.1 | 2046.0 | 1739.4 | 1466.7 | 1244.1 | 1046.1 | 892.8 | 771.8 | 697.6 | 655.1 | 654.0 |
| 35° | 2128.8 | 1953.5 | 1627.0 | 1347.9 | 1113.4 | 905.2 | 744.9 | 625.5 | 537.3 | 500.2 | 497.5 |
| 37.5° | 2041.2 | 1856.7 | 1524.3 | 1227.4 | 984.8 | 769.7 | 606.7 | 476.0 | 394.2 | 349.1 | 345.8 |
| 39° | 1987.4 | 1799.1 | 1457.1 | 1153.2 | 906.8 | 689.0 | 523.3 | 391.0 | 307.7 | 266.2 | 264.1 |
| 40° | 1949.2 | 1759.3 | 1410.8 | 1104.2 | 855.2 | 636.8 | 467.4 | 334.5 | 256.0 | 217.3 | 214.6 |
| 42.5° | 1854.5 | 1653.9 | 1295.2 | 980.5 | 726.6 | 508.8 | 334.0 | 213.0 | 163.5 | 149.5 | 148.4 |
| 45° | 1742.7 | 1538.3 | 1169.3 | 860.6 | 601.3 | 381.3 | 216.2 | 146.3 | 126.9 | 119.9 | 118.9 |
| 47.5° | 1627.0 | 1418.3 | 1044.0 | 740.1 | 483.0 | 264.1 | 143.6 | 116.7 | 104.9 | 100.6 | 100.0 |
| 50° | 1503.3 | 1293.0 | 930.5 | 622.3 | 367.4 | 167.3 | 112.9 | 96.3 | 89.3 | 86.6 | 86.1 |
| 52.5° | 1379.6 | 1164.5 | 805.2 | 502.9 | 257.6 | 118.9 | 93.6 | 82.3 | 78.0 | 76.4 | 75.8 |
| 55° | 1236.0 | 1034.8 | 683.1 | 397.5 | 165.1 | 95.7 | 78.5 | 71.5 | 68.8 | 66.2 | 66.2 |
| 57.5° | 1104.2 | 903.6 | 569.6 | 293.7 | 109.7 | 78.5 | 67.2 | 62.4 | 59.2 | 57.0 | 56.5 |
| 60° | 963.3 | 772.9 | 458.3 | 199.5 | 85.5 | 65.6 | 58.6 | 54.9 | 51.6 | 49.5 | 48.9 |
| 62.5° | 821.8 | 643.3 | 354.4 | 119.9 | 68.3 | 55.4 | 51.6 | 47.9 | 45.2 | 43.0 | 43.0 |
| 65° | 684.2 | 521.2 | 258.7 | 79.1 | 55.4 | 47.3 | 44.1 | 41.4 | 39.3 | 37.6 | 37.6 |
| 67.5° | 550.2 | 401.8 | 175.3 | 60.2 | 44.6 | 40.3 | 38.2 | 36.0 | 33.9 | 32.8 | 32.8 |
| 70° | 424.4 | 299.0 | 105.4 | 45.2 | 36.6 | 33.9 | 32.8 | 30.7 | 29.6 | 28.0 | 28.0 |
| 72.5° | 310.3 | 207.6 | 57.6 | 35.0 | 29.6 | 28.0 | 27.4 | 25.8 | 24.7 | 23.7 | 23.7 |
| 75° | 217.8 | 131.8 | 36.0 | 26.9 | 23.1 | 22.6 | 22.6 | 21.5 | 20.4 | 19.4 | 19.4 |
| 77.5° | 135.0 | 73.1 | 24.7 | 19.4 | 17.7 | 17.7 | 17.7 | 16.7 | 15.6 | 15.1 | 14.5 |
| 80° | 72.1 | 35.0 | 16.7 | 14.0 | 12.9 | 12.9 | 12.9 | 12.4 | 11.3 | 10.8 | 10.2 |
| 82.5° | 30.1 | 16.1 | 10.8 | 9.1 | 8.1 | 8.6 | 8.6 | 7.5 | 6.5 | 5.4 | 5.4 |
| 85° | 11.3 | 9.1 | 7.5 | 6.5 | 5.9 | 5.4 | 4.8 | 3.8 | 2.7 | 2.2 | 2.2 |
| 87.5° | 7.0 | 6.5 | 5.9 | 5.4 | 4.8 | 3.8 | 3.2 | 2.2 | 1.1 | 0.5 | 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)