

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: INVUE

Report Number: P671544

Luminaire Tested: **CCP-SA-2E-740-U-SL4**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671544
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-740-U-SL4
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ SL4 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

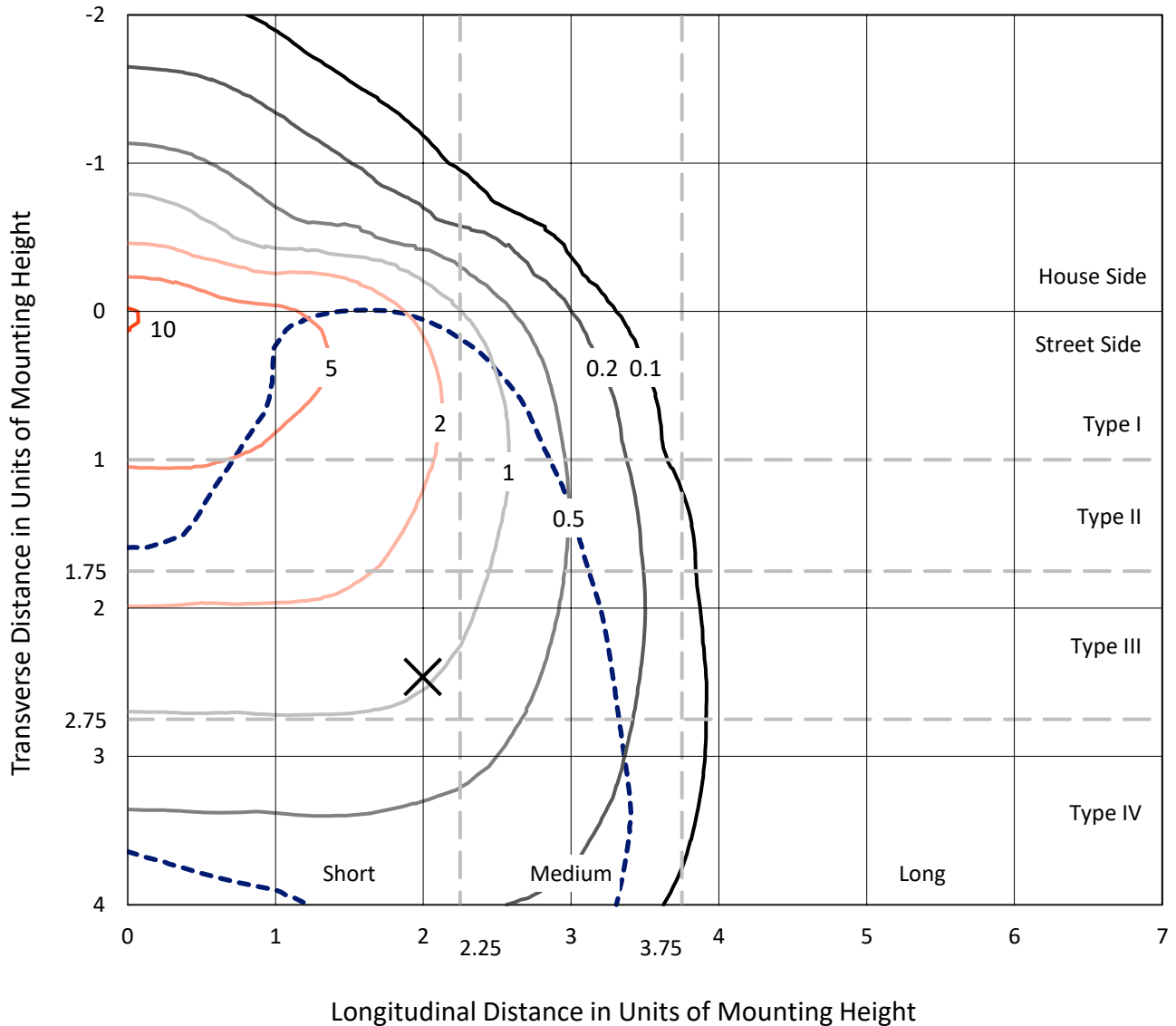
Lumens per Lamp: N/A
Luminaire Lumens: 13398.5 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 106.6
Input Voltage (V): 120
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

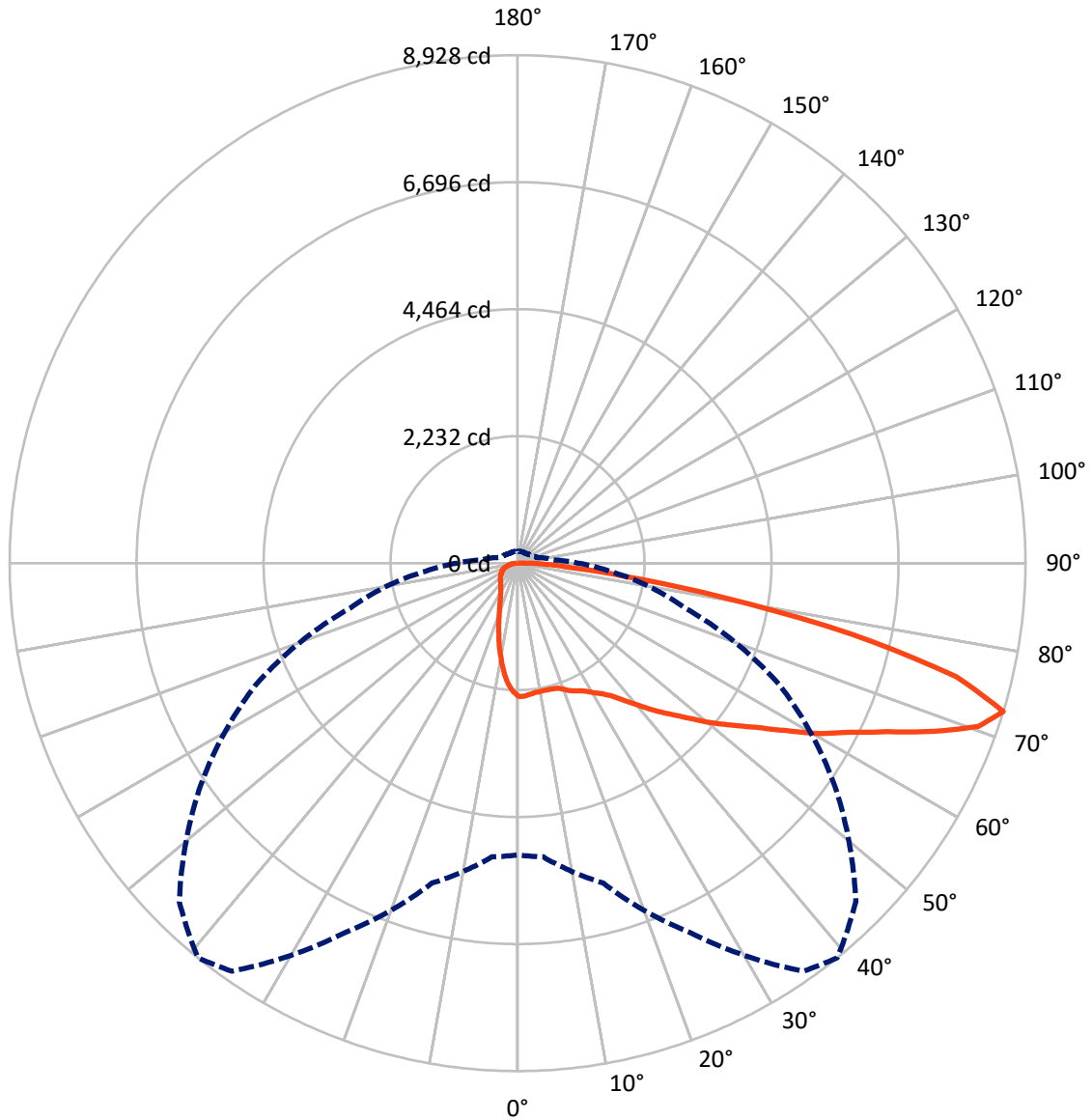
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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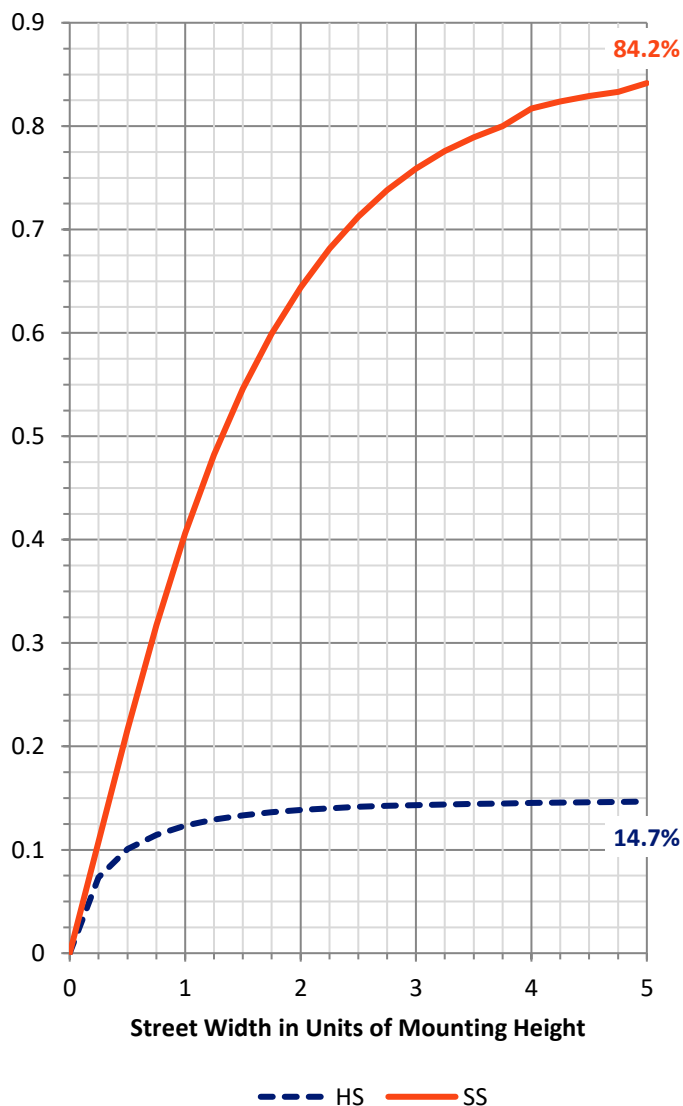
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1991.3 | 0.0 | 1991.3 |
| | % Fixture | 14.9 | 0.0 | 14.9 |
| Street Side | Lumens | 11407.2 | 0.0 | 11407.2 |
| | % Fixture | 85.1 | 0.0 | 85.1 |
| Total | Lumens | 13398.5 | 0.0 | 13398.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 207.2 | 1.5 |
| 10°-20° | 528.9 | 3.9 |
| 20°-30° | 805.8 | 6.0 |
| 30°-40° | 1178.8 | 8.8 |
| 40°-50° | 1804.7 | 13.5 |
| 50°-60° | 2646.9 | 19.8 |
| 60°-70° | 3375.7 | 25.2 |
| 70°-80° | 2439.0 | 18.2 |
| 80°-90° | 411.4 | 3.1 |
| 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° | 13398.5 | 100.0 |
| 0°-180° | 13398.5 | 100.0 |



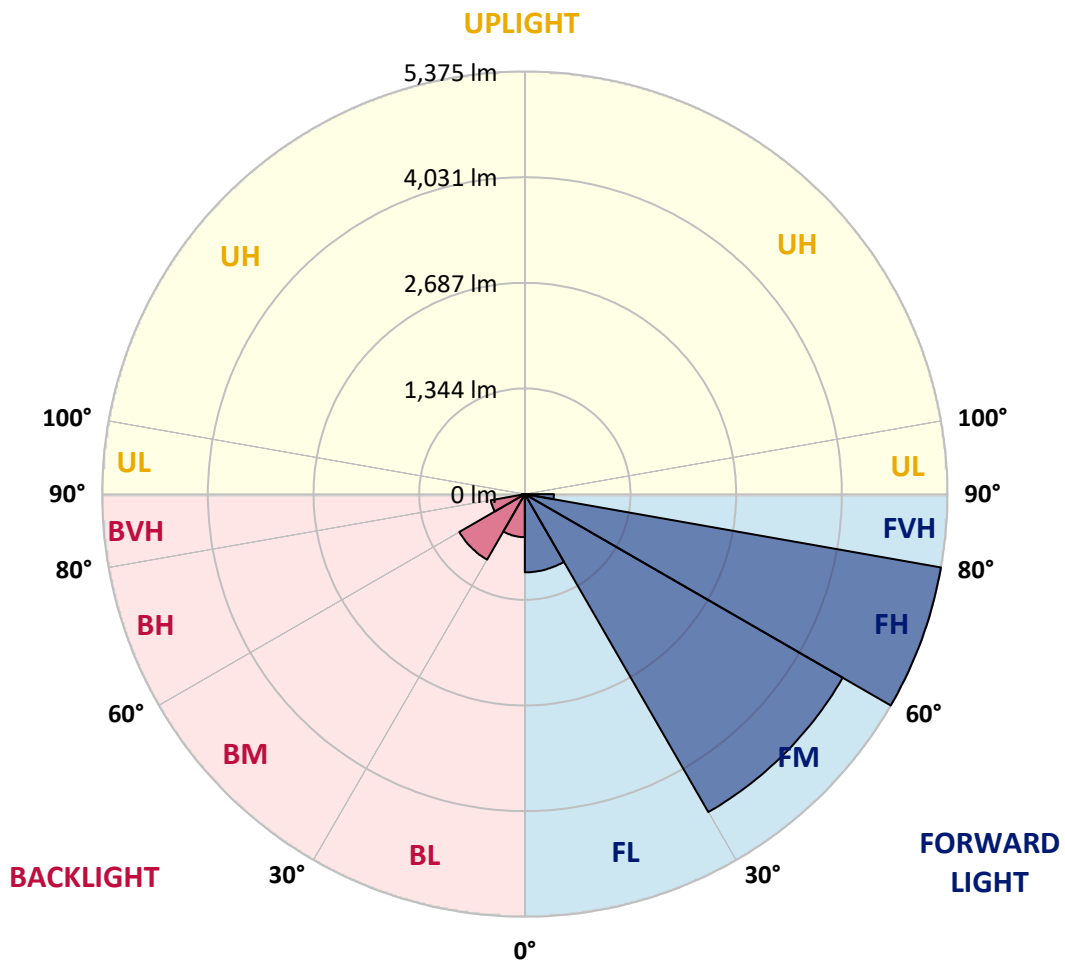
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 994.4 | 7.4 | | | |
| FM (30°-60°) | 4668.4 | 34.8 | | | |
| FH (60°-80°) | 5374.7 | 40.1 | | | G3/7500 |
| FVH (80°-90°) | 369.7 | 2.8 | | | G3/500 |
| BL (0°-30°) | 547.6 | 4.1 | B2/1000 | | |
| BM (30°-60°) | 962.0 | 7.2 | B1/1000 | | |
| BH (60°-80°) | 440.0 | 3.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 41.7 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 |
| 2.5° | 2380.6 | 2385.6 | 2375.5 | 2365.5 | 2360.4 | 2340.3 | 2360.4 | 2350.4 | 2340.3 | 2340.3 | 2340.3 |
| 5° | 2350.4 | 2355.4 | 2355.4 | 2345.3 | 2350.4 | 2315.1 | 2310.1 | 2315.1 | 2300.0 | 2290.0 | 2284.9 |
| 7.5° | 2305.1 | 2315.1 | 2335.3 | 2330.2 | 2310.1 | 2295.0 | 2300.0 | 2295.0 | 2269.8 | 2254.7 | 2214.5 |
| 10° | 2269.8 | 2279.9 | 2290.0 | 2300.0 | 2295.0 | 2290.0 | 2284.9 | 2264.8 | 2259.8 | 2224.5 | 2184.3 |
| 12.5° | 2234.6 | 2234.6 | 2239.6 | 2279.9 | 2284.9 | 2284.9 | 2254.7 | 2254.7 | 2239.6 | 2234.6 | 2174.2 |
| 15° | 2199.4 | 2214.5 | 2254.7 | 2264.8 | 2284.9 | 2295.0 | 2279.9 | 2279.9 | 2254.7 | 2219.5 | 2174.2 |
| 17.5° | 2209.4 | 2234.6 | 2274.9 | 2300.0 | 2310.1 | 2310.1 | 2330.2 | 2315.1 | 2279.9 | 2259.8 | 2214.5 |
| 20° | 2259.8 | 2264.8 | 2315.1 | 2360.4 | 2370.5 | 2370.5 | 2350.4 | 2335.3 | 2310.1 | 2274.9 | 2214.5 |
| 22.5° | 2290.0 | 2325.2 | 2385.6 | 2410.8 | 2441.0 | 2441.0 | 2415.8 | 2380.6 | 2345.3 | 2310.1 | 2244.7 |
| 25° | 2420.8 | 2425.9 | 2451.0 | 2491.3 | 2506.4 | 2486.3 | 2461.1 | 2420.8 | 2375.5 | 2340.3 | 2279.9 |
| 27.5° | 2511.4 | 2536.6 | 2566.8 | 2586.9 | 2561.7 | 2546.6 | 2526.5 | 2481.2 | 2446.0 | 2415.8 | 2330.2 |
| 30° | 2677.5 | 2647.3 | 2667.4 | 2677.5 | 2632.2 | 2642.3 | 2586.9 | 2546.6 | 2506.4 | 2506.4 | 2410.8 |
| 32.5° | 2778.2 | 2803.3 | 2783.2 | 2778.2 | 2742.9 | 2737.9 | 2702.7 | 2657.4 | 2632.2 | 2662.4 | 2531.6 |
| 35° | 2954.3 | 2939.2 | 2939.2 | 2934.2 | 2893.9 | 2868.8 | 2868.8 | 2788.2 | 2813.4 | 2878.8 | 2717.8 |
| 37.5° | 3044.9 | 3039.9 | 3070.1 | 3095.2 | 3055.0 | 3070.1 | 3055.0 | 3019.7 | 3029.8 | 3145.6 | 2949.3 |
| 40° | 3135.5 | 3170.7 | 3231.1 | 3241.2 | 3266.4 | 3286.5 | 3276.4 | 3271.4 | 3311.7 | 3497.9 | 3261.3 |
| 42.5° | 3221.1 | 3251.3 | 3341.8 | 3422.4 | 3482.8 | 3548.2 | 3553.2 | 3553.2 | 3684.1 | 3950.8 | 3638.8 |
| 45° | 3331.8 | 3356.9 | 3482.8 | 3643.8 | 3744.5 | 3789.8 | 3830.0 | 3875.3 | 4051.5 | 4368.6 | 4041.4 |
| 47.5° | 3482.8 | 3502.9 | 3653.9 | 3855.2 | 4051.5 | 4076.7 | 4157.2 | 4207.5 | 4474.3 | 4796.4 | 4454.1 |
| 50° | 3699.2 | 3684.1 | 3804.9 | 4096.8 | 4288.0 | 4408.8 | 4524.6 | 4615.2 | 4876.9 | 5229.2 | 4776.2 |
| 52.5° | 3875.3 | 3875.3 | 3965.9 | 4353.5 | 4615.2 | 4730.9 | 4851.7 | 4977.5 | 5279.5 | 5662.0 | 5037.9 |
| 55° | 4177.3 | 4147.1 | 4202.5 | 4605.1 | 4982.6 | 5093.3 | 5324.8 | 5430.5 | 5722.4 | 5984.1 | 5259.4 |
| 57.5° | 4383.7 | 4398.8 | 4464.2 | 4937.3 | 5415.4 | 5551.3 | 5782.8 | 5858.3 | 6115.0 | 6321.3 | 5420.4 |
| 60° | 4655.4 | 4605.1 | 4746.0 | 5304.7 | 5893.5 | 6084.8 | 6276.0 | 6321.3 | 6512.6 | 6537.7 | 5495.9 |
| 62.5° | 4917.1 | 4907.1 | 5027.9 | 5672.1 | 6406.9 | 6542.8 | 6739.1 | 6789.4 | 6869.9 | 6708.9 | 5390.2 |
| 65° | 5078.2 | 5143.6 | 5370.1 | 6074.7 | 6990.7 | 7141.7 | 7338.0 | 7237.3 | 7146.7 | 6557.9 | 4871.9 |
| 67.5° | 5299.6 | 5329.8 | 5677.1 | 6512.6 | 7665.1 | 7891.6 | 8062.7 | 7665.1 | 6990.7 | 5938.8 | 4101.8 |
| 70° | 5350.0 | 5430.5 | 5883.5 | 6970.6 | 8359.7 | 8591.2 | 8601.2 | 7519.2 | 6422.0 | 4831.6 | 2974.4 |
| 72.5° | 5128.5 | 5183.9 | 5823.1 | 7161.8 | 8757.3 | 8928.4 | 8410.0 | 6799.5 | 5088.3 | 3044.9 | 1620.6 |
| 75° | 4313.2 | 4469.2 | 5068.1 | 6573.0 | 8027.5 | 7962.1 | 7126.6 | 5188.9 | 3055.0 | 1348.8 | 684.5 |
| 77.5° | 3004.6 | 3009.7 | 3633.8 | 4781.3 | 6009.3 | 5994.2 | 5083.2 | 3009.7 | 1308.6 | 543.6 | 402.6 |
| 80° | 1333.7 | 1429.3 | 1806.8 | 2576.8 | 3648.9 | 3648.9 | 2964.4 | 1494.8 | 654.3 | 352.3 | 276.8 |
| 82.5° | 785.1 | 815.3 | 966.3 | 1202.9 | 1776.6 | 1872.2 | 1419.3 | 996.5 | 447.9 | 221.4 | 171.1 |
| 85° | 578.8 | 629.1 | 719.7 | 724.7 | 840.5 | 855.6 | 785.1 | 865.7 | 307.0 | 120.8 | 140.9 |
| 87.5° | 432.8 | 463.0 | 573.8 | 478.1 | 447.9 | 422.8 | 483.2 | 885.8 | 115.8 | 60.4 | 45.3 |
| 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° | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 |
| 2.5° | 2320.2 | 2320.2 | 2310.1 | 2290.0 | 2290.0 | 2249.7 | 2259.8 | 2269.8 | 2244.7 | 2244.7 | 2249.7 |
| 5° | 2284.9 | 2264.8 | 2239.6 | 2209.4 | 2189.3 | 2134.0 | 2123.9 | 2088.7 | 2083.6 | 2073.6 | 2058.5 |
| 7.5° | 2214.5 | 2184.3 | 2139.0 | 2093.7 | 2028.3 | 1977.9 | 1917.5 | 1867.2 | 1847.1 | 1832.0 | 1826.9 |
| 10° | 2149.0 | 2144.0 | 2068.5 | 1977.9 | 1877.3 | 1781.6 | 1691.1 | 1625.6 | 1585.4 | 1560.2 | 1555.2 |
| 12.5° | 2149.0 | 2108.8 | 2003.1 | 1877.3 | 1731.3 | 1590.4 | 1474.6 | 1384.0 | 1328.7 | 1288.4 | 1273.3 |
| 15° | 2139.0 | 2098.7 | 1957.8 | 1766.5 | 1600.5 | 1409.2 | 1248.2 | 1152.5 | 1072.0 | 1031.7 | 1036.8 |
| 17.5° | 2149.0 | 2088.7 | 1892.4 | 1686.0 | 1454.5 | 1248.2 | 1056.9 | 941.2 | 860.6 | 830.4 | 825.4 |
| 20° | 2154.1 | 2078.6 | 1842.0 | 1575.3 | 1303.5 | 1072.0 | 890.8 | 780.1 | 719.7 | 699.6 | 699.6 |
| 22.5° | 2144.0 | 2048.4 | 1766.5 | 1444.4 | 1172.7 | 926.1 | 775.1 | 679.4 | 639.2 | 614.0 | 624.1 |
| 25° | 2189.3 | 2043.4 | 1696.1 | 1333.7 | 1021.7 | 805.3 | 689.5 | 619.0 | 593.9 | 578.8 | 583.8 |
| 27.5° | 2199.4 | 2043.4 | 1640.7 | 1207.9 | 890.8 | 714.7 | 624.1 | 578.8 | 558.7 | 548.6 | 543.6 |
| 30° | 2239.6 | 2053.4 | 1575.3 | 1082.1 | 785.1 | 644.2 | 573.8 | 548.6 | 533.5 | 528.5 | 528.5 |
| 32.5° | 2350.4 | 2083.6 | 1504.8 | 976.4 | 694.5 | 583.8 | 538.5 | 518.4 | 508.3 | 503.3 | 508.3 |
| 35° | 2481.2 | 2164.1 | 1429.3 | 865.7 | 629.1 | 543.6 | 508.3 | 493.2 | 488.2 | 488.2 | 488.2 |
| 37.5° | 2682.5 | 2284.9 | 1363.9 | 775.1 | 573.8 | 503.3 | 478.1 | 473.1 | 468.1 | 473.1 | 473.1 |
| 40° | 2914.1 | 2415.8 | 1303.5 | 704.6 | 533.5 | 478.1 | 453.0 | 453.0 | 447.9 | 453.0 | 458.0 |
| 42.5° | 3180.8 | 2576.8 | 1243.1 | 634.1 | 498.3 | 458.0 | 437.9 | 432.8 | 427.8 | 437.9 | 442.9 |
| 45° | 3548.2 | 2798.3 | 1202.9 | 593.9 | 473.1 | 437.9 | 417.7 | 417.7 | 412.7 | 412.7 | 422.8 |
| 47.5° | 3855.2 | 3009.7 | 1202.9 | 553.6 | 458.0 | 422.8 | 402.6 | 402.6 | 392.6 | 397.6 | 397.6 |
| 50° | 4111.9 | 3190.9 | 1228.0 | 543.6 | 437.9 | 407.7 | 392.6 | 382.5 | 377.5 | 377.5 | 377.5 |
| 52.5° | 4283.0 | 3301.6 | 1248.2 | 533.5 | 427.8 | 387.5 | 377.5 | 372.4 | 362.4 | 357.3 | 362.4 |
| 55° | 4454.1 | 3377.1 | 1253.2 | 533.5 | 412.7 | 367.4 | 357.3 | 357.3 | 347.3 | 342.2 | 342.2 |
| 57.5° | 4519.5 | 3346.9 | 1182.7 | 523.4 | 402.6 | 352.3 | 342.2 | 337.2 | 332.2 | 327.1 | 327.1 |
| 60° | 4489.4 | 3236.2 | 1026.7 | 498.3 | 392.6 | 342.2 | 322.1 | 322.1 | 322.1 | 312.0 | 317.1 |
| 62.5° | 4283.0 | 2858.7 | 825.4 | 458.0 | 377.5 | 322.1 | 302.0 | 312.0 | 312.0 | 307.0 | 307.0 |
| 65° | 3739.4 | 2360.4 | 669.4 | 422.8 | 357.3 | 307.0 | 286.9 | 302.0 | 307.0 | 302.0 | 296.9 |
| 67.5° | 2989.5 | 1816.9 | 553.6 | 382.5 | 332.2 | 281.8 | 266.7 | 281.8 | 286.9 | 281.8 | 281.8 |
| 70° | 2053.4 | 1172.7 | 447.9 | 342.2 | 296.9 | 256.7 | 241.6 | 251.6 | 251.6 | 256.7 | 256.7 |
| 72.5° | 1061.9 | 634.1 | 367.4 | 291.9 | 256.7 | 231.5 | 216.4 | 216.4 | 211.4 | 211.4 | 211.4 |
| 75° | 528.5 | 432.8 | 307.0 | 246.6 | 216.4 | 196.3 | 186.2 | 176.2 | 176.2 | 176.2 | 176.2 |
| 77.5° | 367.4 | 332.2 | 251.6 | 196.3 | 176.2 | 161.1 | 161.1 | 146.0 | 146.0 | 146.0 | 146.0 |
| 80° | 276.8 | 261.7 | 191.3 | 151.0 | 135.9 | 125.8 | 125.8 | 120.8 | 120.8 | 115.8 | 115.8 |
| 82.5° | 196.3 | 211.4 | 146.0 | 110.7 | 100.7 | 95.6 | 95.6 | 90.6 | 90.6 | 80.5 | 80.5 |
| 85° | 156.0 | 176.2 | 110.7 | 80.5 | 75.5 | 65.4 | 65.4 | 60.4 | 60.4 | 55.4 | 50.3 |
| 87.5° | 45.3 | 95.6 | 45.3 | 30.2 | 30.2 | 30.2 | 30.2 | 25.2 | 25.2 | 20.1 | 20.1 |
| 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)