

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: P674543

Luminaire Tested: **CCP-SA-2B-730-U-T2R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674543
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-730-U-T2R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T2R distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5092 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

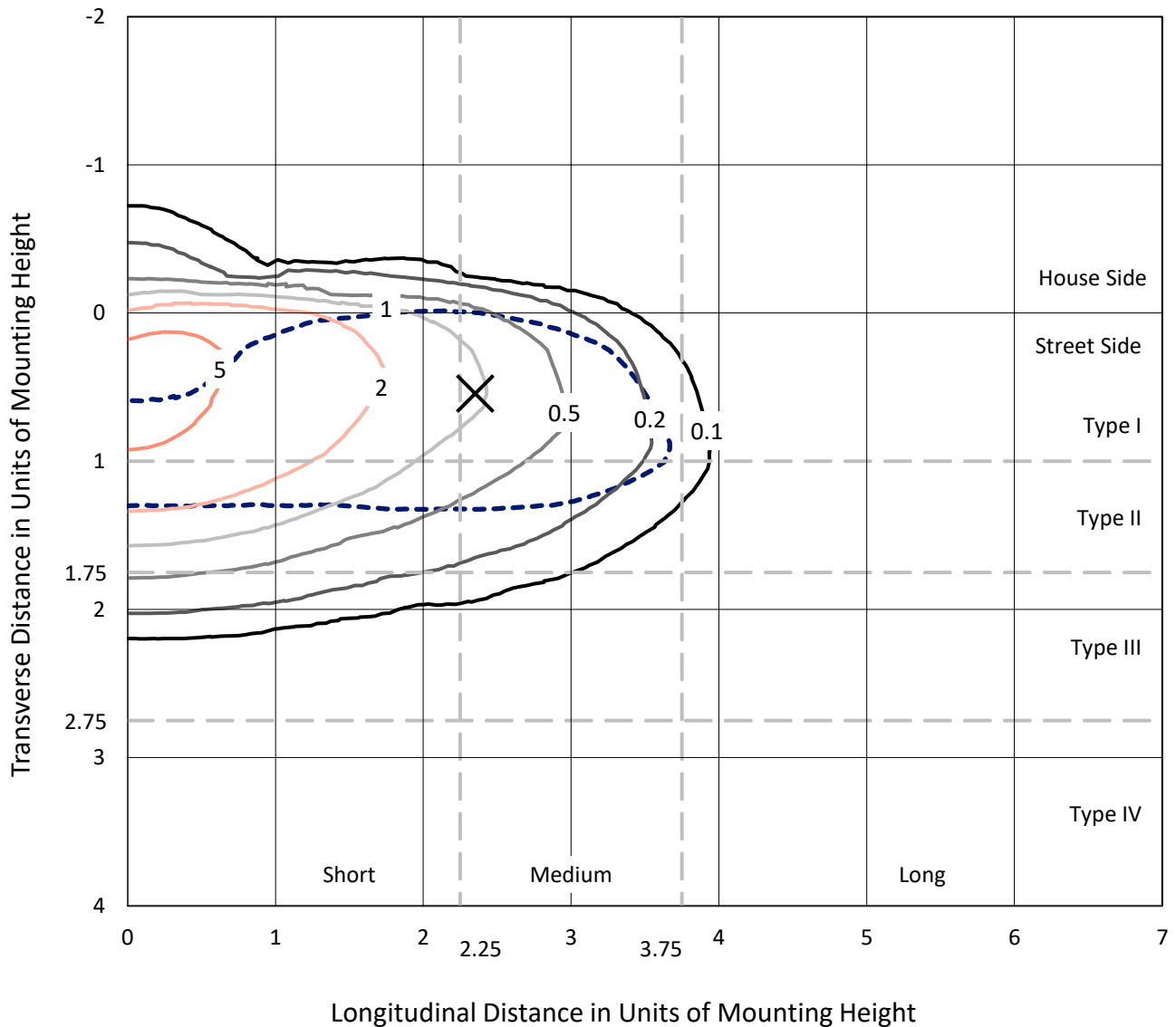
Input Watts (W): 46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

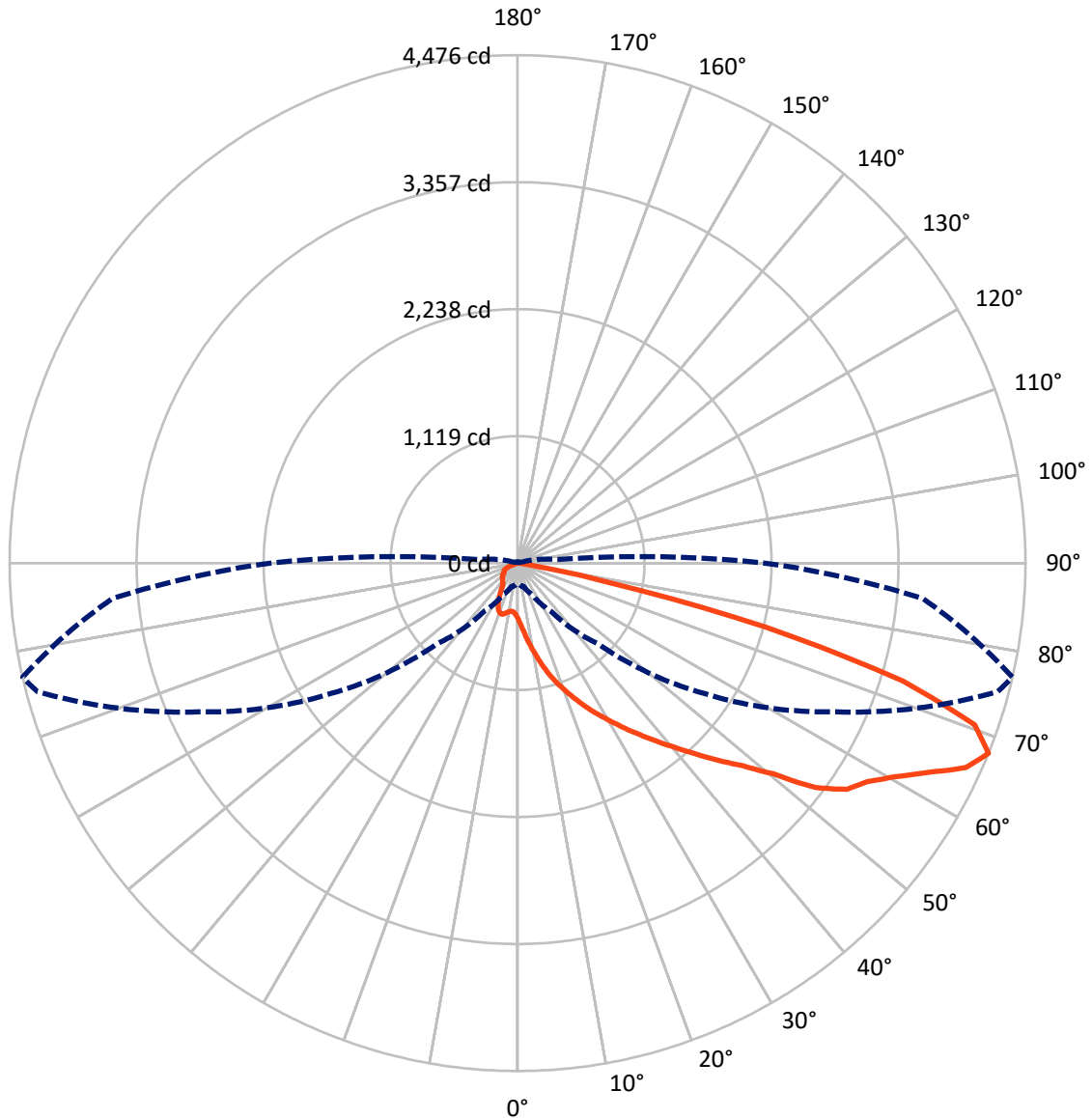
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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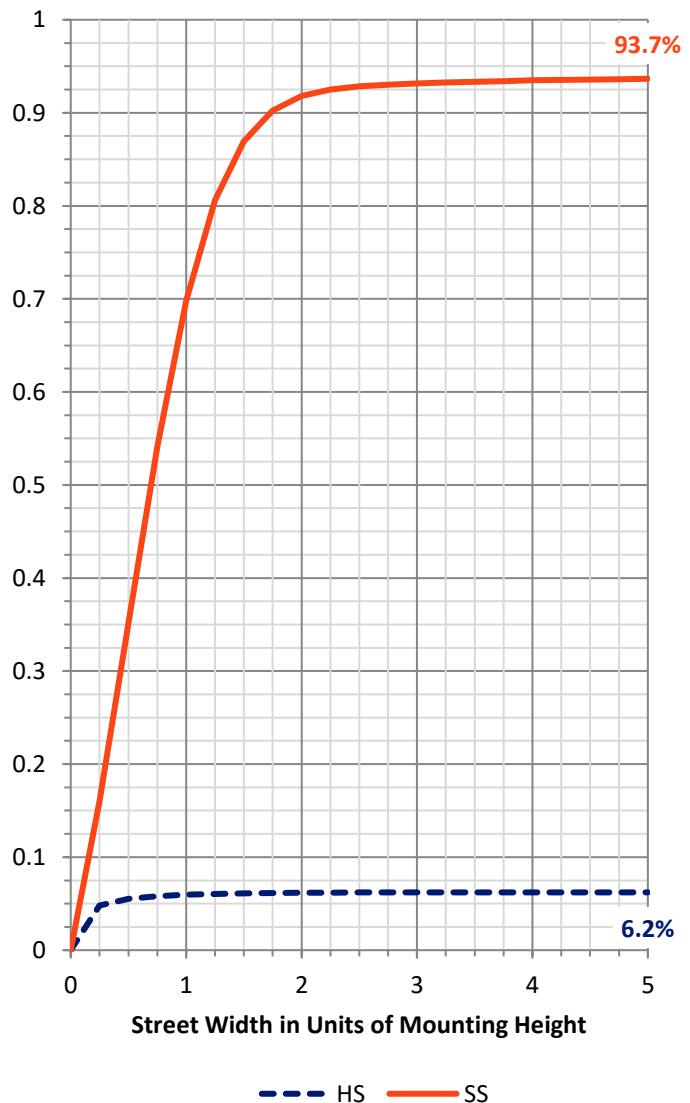
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 318.2 | 0.0 | 318.2 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 4773.8 | 0.0 | 4773.8 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 5092.0 | 0.0 | 5092.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.3 | 1.1 |
| 10°-20° | 212.0 | 4.2 |
| 20°-30° | 414.1 | 8.1 |
| 30°-40° | 724.0 | 14.2 |
| 40°-50° | 1055.9 | 20.7 |
| 50°-60° | 1234.7 | 24.2 |
| 60°-70° | 1000.9 | 19.7 |
| 70°-80° | 376.0 | 7.4 |
| 80°-90° | 17.1 | 0.3 |
| 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° | 5092.0 | 100.0 |
| 0°-180° | 5092.0 | 100.0 |



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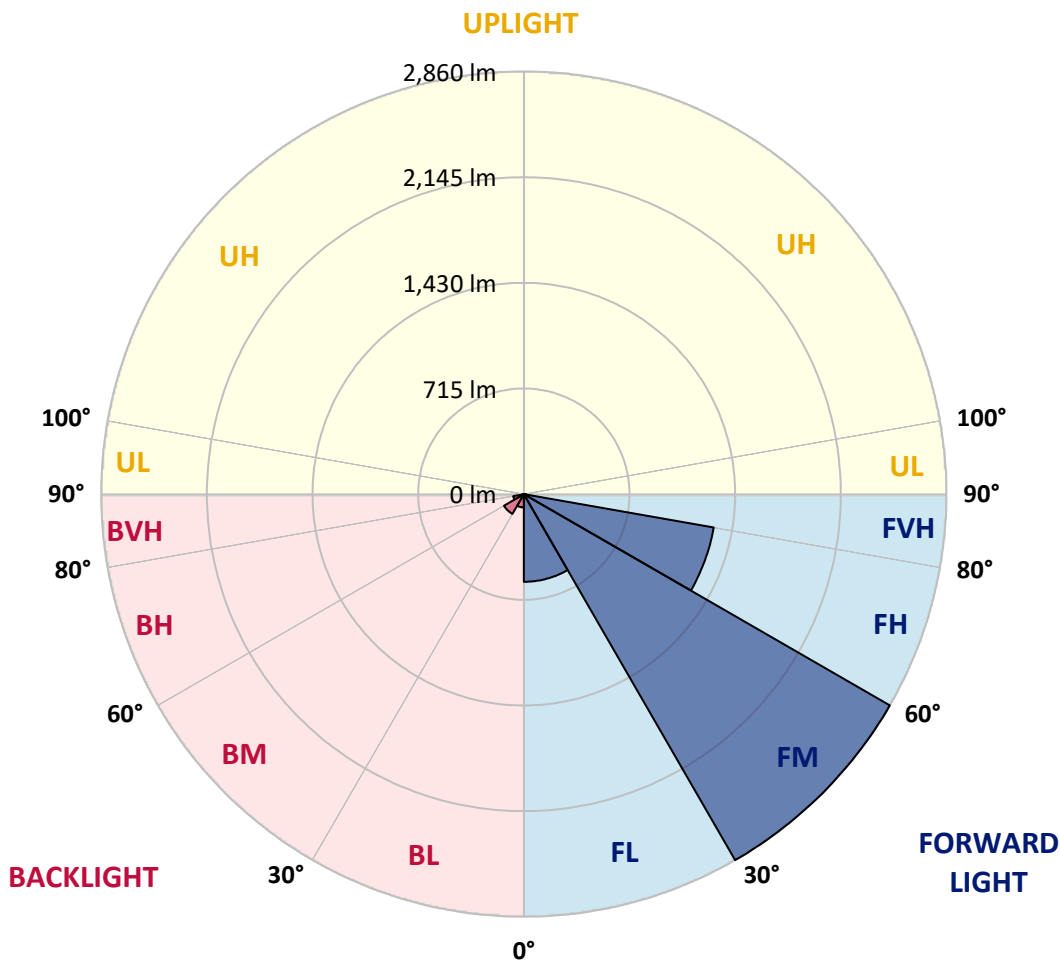
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 593.2 | 11.6 | | | |
| FM (30°-60°) | 2859.8 | 56.2 | | | |
| FH (60°-80°) | 1304.7 | 25.6 | | | G1/1800 |
| FVH (80°-90°) | 16.1 | 0.3 | | | G1/100 |
| BL (0°-30°) | 90.2 | 1.8 | B0/110 | | |
| BM (30°-60°) | 154.8 | 3.0 | B0/220 | | |
| BH (60°-80°) | 72.2 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 487.7 | 487.7 | 487.7 | 487.7 | 487.7 | 487.7 | 487.7 | 487.7 | 487.7 | 487.7 | 487.7 |
| 2.5° | 732.3 | 705.6 | 710.7 | 699.6 | 685.4 | 652.3 | 617.4 | 582.4 | 551.2 | 544.3 | 513.0 |
| 5° | 937.8 | 929.5 | 920.7 | 913.4 | 883.5 | 842.1 | 779.2 | 699.2 | 627.0 | 614.6 | 549.8 |
| 7.5° | 1097.3 | 1084.8 | 1092.7 | 1070.1 | 1038.9 | 998.9 | 918.9 | 833.4 | 722.2 | 703.8 | 603.1 |
| 10° | 1214.9 | 1208.0 | 1211.7 | 1201.1 | 1186.0 | 1146.0 | 1066.9 | 959.8 | 831.1 | 796.2 | 662.9 |
| 12.5° | 1303.2 | 1304.6 | 1320.7 | 1321.6 | 1309.2 | 1276.5 | 1192.9 | 1081.2 | 929.9 | 898.7 | 729.1 |
| 15° | 1367.6 | 1368.9 | 1388.7 | 1409.8 | 1424.1 | 1407.1 | 1331.2 | 1206.2 | 1046.2 | 1003.5 | 798.5 |
| 17.5° | 1378.1 | 1379.0 | 1414.0 | 1456.7 | 1500.9 | 1515.6 | 1457.2 | 1330.3 | 1152.4 | 1103.7 | 878.0 |
| 20° | 1385.0 | 1392.8 | 1424.1 | 1473.3 | 1543.2 | 1588.7 | 1556.9 | 1449.4 | 1255.4 | 1198.8 | 956.1 |
| 22.5° | 1468.7 | 1468.7 | 1487.1 | 1522.0 | 1577.6 | 1648.9 | 1642.4 | 1558.8 | 1355.6 | 1299.5 | 1033.8 |
| 25° | 1646.1 | 1646.1 | 1628.2 | 1619.0 | 1648.9 | 1705.0 | 1721.0 | 1675.5 | 1470.1 | 1403.9 | 1115.6 |
| 27.5° | 1881.0 | 1881.0 | 1853.0 | 1785.4 | 1759.7 | 1783.1 | 1800.1 | 1777.1 | 1575.8 | 1510.5 | 1202.1 |
| 30° | 2124.6 | 2132.9 | 2084.2 | 1998.2 | 1908.1 | 1890.2 | 1873.7 | 1868.6 | 1688.4 | 1614.9 | 1289.9 |
| 32.5° | 2369.2 | 2368.3 | 2307.6 | 2200.5 | 2082.8 | 2019.4 | 1965.6 | 1959.6 | 1807.9 | 1735.8 | 1373.1 |
| 35° | 2564.6 | 2565.0 | 2501.1 | 2391.3 | 2255.2 | 2174.3 | 2087.9 | 2059.8 | 1938.9 | 1858.5 | 1472.4 |
| 37.5° | 2733.7 | 2724.1 | 2655.1 | 2550.8 | 2423.9 | 2340.2 | 2232.7 | 2159.6 | 2074.5 | 1992.7 | 1571.7 |
| 40° | 2830.7 | 2817.8 | 2750.7 | 2651.4 | 2555.4 | 2491.5 | 2396.8 | 2280.0 | 2223.5 | 2135.2 | 1684.7 |
| 42.5° | 2845.0 | 2833.9 | 2789.3 | 2729.6 | 2651.0 | 2594.9 | 2569.6 | 2416.1 | 2379.8 | 2299.8 | 1819.9 |
| 45° | 2805.0 | 2787.1 | 2772.3 | 2741.1 | 2719.0 | 2691.9 | 2726.4 | 2560.9 | 2559.0 | 2479.5 | 1953.6 |
| 47.5° | 2705.7 | 2681.3 | 2685.0 | 2719.5 | 2744.3 | 2768.7 | 2876.2 | 2750.7 | 2739.7 | 2665.2 | 2129.2 |
| 50° | 2536.1 | 2524.1 | 2564.6 | 2632.6 | 2731.0 | 2828.4 | 3025.6 | 2944.7 | 2988.4 | 2918.5 | 2371.5 |
| 52.5° | 2191.3 | 2206.0 | 2326.9 | 2490.6 | 2660.6 | 2856.5 | 3165.8 | 3234.3 | 3346.0 | 3288.6 | 2615.1 |
| 55° | 1777.6 | 1772.1 | 1933.4 | 2223.9 | 2495.6 | 2838.5 | 3227.0 | 3404.9 | 3580.5 | 3520.2 | 2750.7 |
| 57.5° | 1431.9 | 1441.6 | 1550.5 | 1837.8 | 2215.7 | 2700.2 | 3241.2 | 3494.0 | 3674.7 | 3634.7 | 2876.2 |
| 60° | 1074.7 | 1083.9 | 1183.2 | 1433.3 | 1843.3 | 2411.5 | 3123.5 | 3525.3 | 3851.7 | 3821.3 | 3076.6 |
| 62.5° | 684.0 | 696.0 | 795.7 | 1038.9 | 1408.9 | 1962.8 | 2859.2 | 3492.7 | 4036.5 | 4061.7 | 3350.2 |
| 65° | 336.5 | 347.1 | 420.6 | 606.8 | 941.9 | 1467.8 | 2490.6 | 3368.1 | 4271.8 | 4344.0 | 3569.4 |
| 67.5° | 186.2 | 191.2 | 216.5 | 308.9 | 525.4 | 1006.7 | 2001.5 | 3101.9 | 4379.8 | 4476.4 | 3584.1 |
| 70° | 144.8 | 146.2 | 155.8 | 180.2 | 256.0 | 590.7 | 1423.6 | 2658.8 | 4156.0 | 4272.7 | 3285.8 |
| 72.5° | 121.8 | 123.7 | 128.3 | 136.5 | 160.0 | 307.5 | 894.5 | 2054.8 | 3496.8 | 3549.7 | 2542.0 |
| 75° | 89.2 | 91.9 | 104.8 | 112.2 | 126.4 | 186.6 | 394.4 | 1234.7 | 2310.8 | 2258.9 | 1422.3 |
| 77.5° | 74.9 | 77.2 | 80.4 | 91.0 | 104.3 | 127.3 | 138.4 | 517.6 | 940.5 | 817.8 | 373.3 |
| 80° | 51.0 | 53.8 | 62.5 | 68.0 | 88.3 | 84.1 | 57.5 | 138.8 | 188.9 | 154.0 | 71.7 |
| 82.5° | 36.3 | 38.6 | 43.2 | 55.6 | 63.9 | 44.6 | 31.3 | 42.3 | 45.5 | 43.2 | 23.4 |
| 85° | 11.5 | 14.7 | 31.3 | 46.0 | 34.5 | 15.2 | 19.8 | 16.1 | 14.3 | 13.8 | 9.2 |
| 87.5° | 2.3 | 2.3 | 15.6 | 18.4 | 13.8 | 7.8 | 6.9 | 5.1 | 6.4 | 6.4 | 5.1 |
| 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° | 487.7 | 487.7 | 487.7 | 487.7 | 487.7 | 487.7 | 487.7 | 487.7 | 487.7 | 487.7 | 487.7 |
| 2.5° | 498.3 | 477.6 | 447.7 | 419.7 | 391.2 | 371.0 | 356.7 | 342.5 | 336.9 | 334.6 | 328.7 |
| 5° | 520.4 | 480.8 | 421.5 | 373.7 | 338.8 | 316.7 | 303.4 | 291.9 | 284.5 | 282.2 | 279.0 |
| 7.5° | 552.1 | 495.1 | 410.0 | 354.9 | 319.9 | 296.0 | 274.4 | 249.6 | 229.8 | 222.0 | 218.8 |
| 10° | 586.6 | 516.7 | 411.9 | 351.2 | 304.8 | 252.4 | 204.1 | 164.1 | 146.6 | 140.2 | 135.6 |
| 12.5° | 637.1 | 540.6 | 419.7 | 347.1 | 259.3 | 180.2 | 130.5 | 114.0 | 109.9 | 108.9 | 108.0 |
| 15° | 687.7 | 574.1 | 432.6 | 319.5 | 193.5 | 122.7 | 108.5 | 102.5 | 100.2 | 97.9 | 97.9 |
| 17.5° | 738.7 | 606.3 | 437.6 | 265.7 | 133.8 | 106.2 | 98.8 | 93.8 | 90.1 | 88.3 | 86.9 |
| 20° | 796.2 | 640.3 | 422.9 | 200.0 | 107.1 | 97.0 | 88.7 | 82.7 | 79.5 | 77.7 | 76.3 |
| 22.5° | 858.2 | 673.9 | 390.7 | 139.3 | 97.5 | 87.3 | 79.5 | 73.5 | 70.3 | 68.5 | 68.0 |
| 25° | 916.6 | 702.9 | 339.2 | 104.8 | 87.8 | 78.1 | 70.8 | 65.7 | 63.4 | 61.6 | 61.1 |
| 27.5° | 976.8 | 727.7 | 272.1 | 92.4 | 80.0 | 70.8 | 63.4 | 59.3 | 57.0 | 55.6 | 55.2 |
| 30° | 1035.7 | 744.7 | 202.7 | 84.6 | 73.1 | 63.9 | 57.5 | 54.2 | 51.9 | 50.6 | 50.1 |
| 32.5° | 1096.3 | 754.3 | 137.0 | 77.7 | 66.2 | 57.9 | 52.4 | 49.2 | 47.8 | 46.4 | 46.4 |
| 35° | 1154.7 | 753.0 | 98.8 | 71.3 | 60.7 | 52.4 | 47.3 | 45.0 | 44.6 | 43.2 | 43.2 |
| 37.5° | 1218.6 | 743.3 | 84.1 | 65.3 | 54.7 | 47.3 | 43.2 | 41.8 | 41.4 | 40.5 | 40.0 |
| 40° | 1291.2 | 721.7 | 76.8 | 60.7 | 49.6 | 43.2 | 39.5 | 38.6 | 38.2 | 37.2 | 37.2 |
| 42.5° | 1370.8 | 693.7 | 72.6 | 55.6 | 45.5 | 39.1 | 36.3 | 34.9 | 34.5 | 33.6 | 33.6 |
| 45° | 1463.2 | 667.0 | 69.9 | 50.6 | 41.8 | 35.9 | 33.1 | 31.7 | 31.3 | 30.3 | 30.3 |
| 47.5° | 1589.1 | 651.8 | 65.3 | 46.0 | 37.7 | 32.6 | 29.9 | 29.0 | 28.0 | 27.1 | 27.1 |
| 50° | 1762.4 | 633.9 | 59.3 | 41.4 | 34.5 | 29.4 | 27.6 | 26.2 | 25.7 | 24.8 | 24.8 |
| 52.5° | 1904.9 | 595.7 | 53.3 | 36.8 | 30.8 | 27.1 | 25.3 | 24.4 | 23.4 | 23.0 | 23.0 |
| 55° | 1955.0 | 551.2 | 47.3 | 33.1 | 28.0 | 25.3 | 23.4 | 22.5 | 22.1 | 21.6 | 21.6 |
| 57.5° | 2035.0 | 536.9 | 41.8 | 29.4 | 25.3 | 23.4 | 21.6 | 21.1 | 20.7 | 20.2 | 19.8 |
| 60° | 2171.5 | 545.2 | 36.8 | 26.2 | 23.0 | 21.1 | 19.8 | 19.3 | 18.4 | 17.5 | 17.5 |
| 62.5° | 2303.9 | 535.1 | 31.3 | 23.0 | 19.8 | 18.8 | 17.5 | 16.5 | 14.7 | 13.3 | 12.4 |
| 65° | 2336.1 | 467.5 | 27.1 | 19.3 | 16.5 | 15.6 | 14.3 | 12.4 | 9.7 | 7.8 | 7.8 |
| 67.5° | 2180.3 | 355.3 | 23.4 | 16.5 | 13.8 | 12.9 | 10.1 | 8.3 | 6.0 | 4.6 | 4.6 |
| 70° | 1799.2 | 225.2 | 19.3 | 12.9 | 11.5 | 8.7 | 6.4 | 6.0 | 4.1 | 3.7 | 3.2 |
| 72.5° | 1298.1 | 123.2 | 16.1 | 10.6 | 8.3 | 5.5 | 4.6 | 3.7 | 2.8 | 1.8 | 1.8 |
| 75° | 657.3 | 57.9 | 12.0 | 8.3 | 5.5 | 3.7 | 2.8 | 1.8 | 1.8 | 1.4 | 1.4 |
| 77.5° | 186.2 | 26.7 | 7.8 | 5.5 | 3.7 | 2.3 | 1.8 | 1.4 | 1.4 | 0.9 | 0.9 |
| 80° | 36.8 | 13.3 | 5.1 | 3.7 | 2.8 | 1.8 | 1.4 | 0.9 | 0.9 | 0.5 | 0.5 |
| 82.5° | 13.3 | 6.9 | 3.7 | 2.8 | 2.3 | 1.8 | 0.9 | 0.5 | 0.5 | 0.0 | 0.0 |
| 85° | 6.9 | 3.7 | 2.8 | 2.3 | 1.8 | 1.4 | 0.9 | 0.5 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.7 | 2.8 | 2.3 | 2.3 | 1.8 | 1.4 | 0.9 | 0.5 | 0.0 | 0.0 | 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)