

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: P674632

Luminaire Tested: **CCP-SA-2C-840-U-T2R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674632
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2C-840-U-T2R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ T2R distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

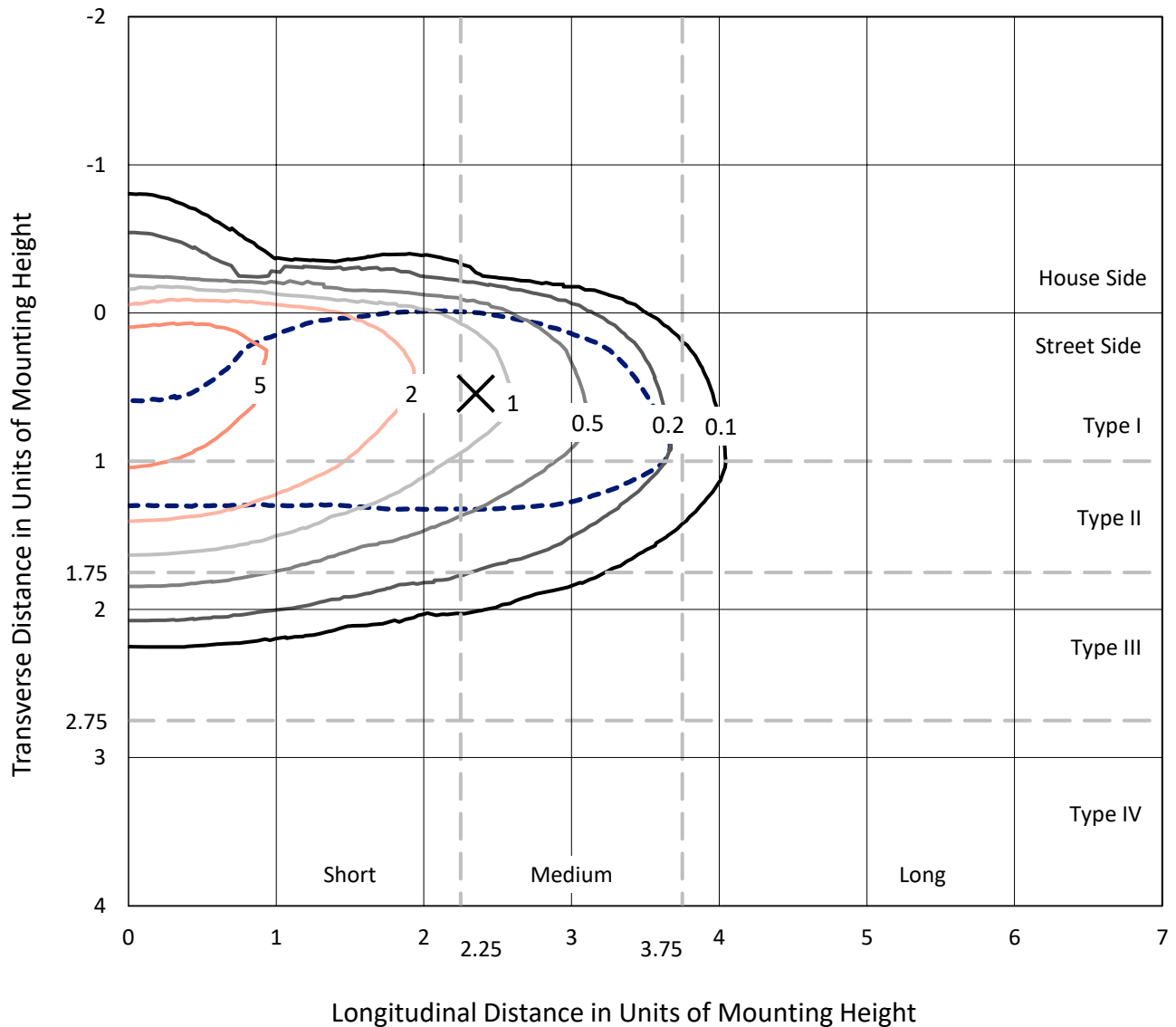
Lumens per Lamp: N/A
Luminaire Lumens: 6241.9 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 62.1
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

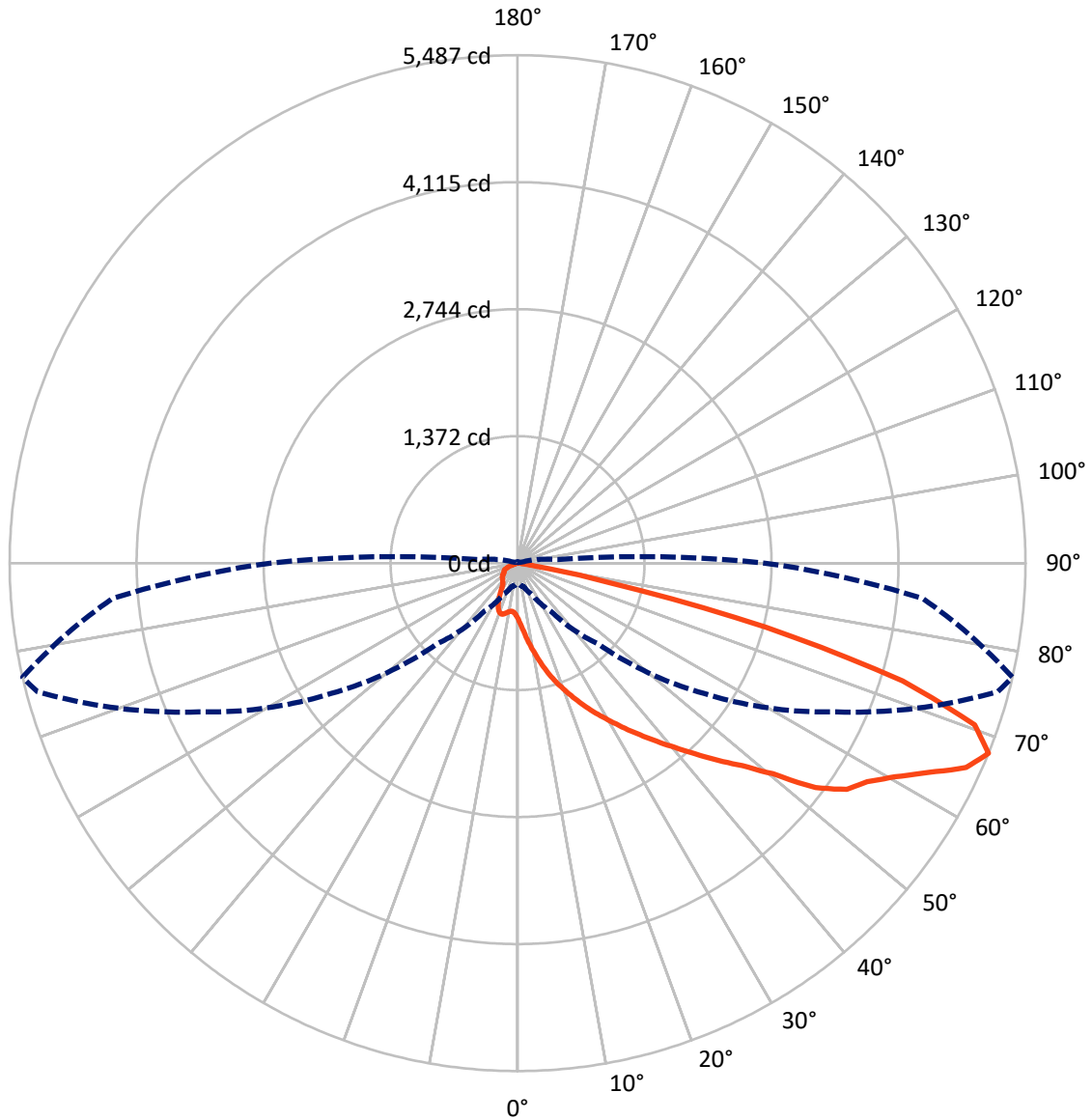
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.7 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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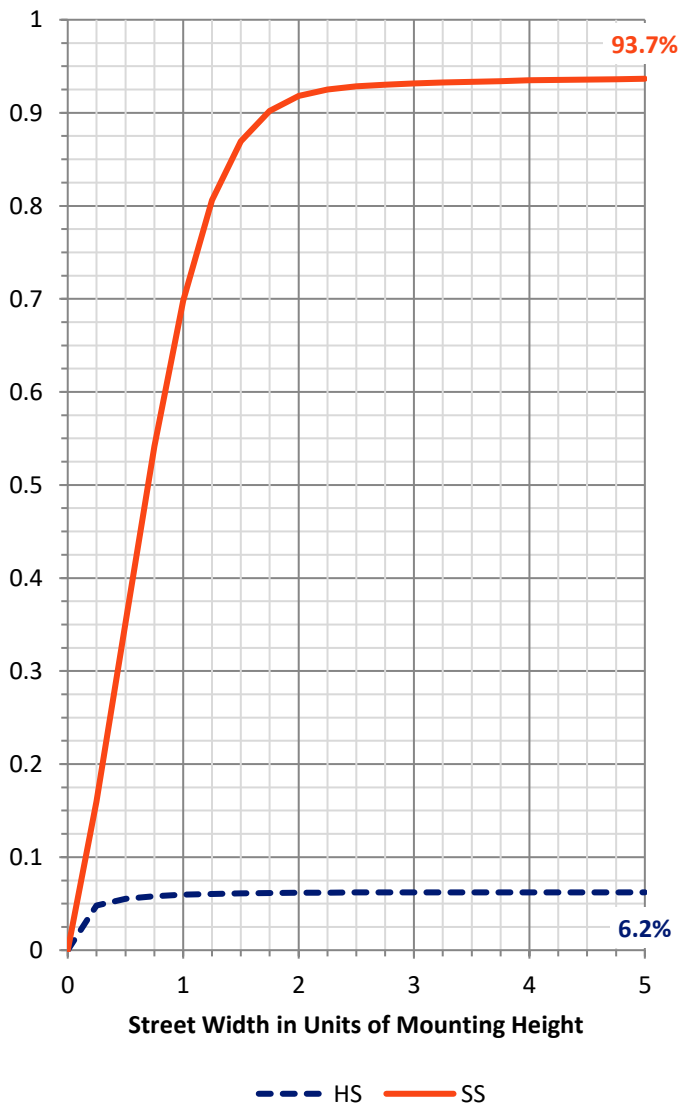
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 390.1 | 0.0 | 390.1 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 5851.8 | 0.0 | 5851.8 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 6241.9 | 0.0 | 6241.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 70.3 | 1.1 |
| 10°-20° | 259.8 | 4.2 |
| 20°-30° | 507.6 | 8.1 |
| 30°-40° | 887.5 | 14.2 |
| 40°-50° | 1294.3 | 20.7 |
| 50°-60° | 1513.5 | 24.2 |
| 60°-70° | 1226.9 | 19.7 |
| 70°-80° | 460.9 | 7.4 |
| 80°-90° | 21.0 | 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° | 6241.9 | 100.0 |
| 0°-180° | 6241.9 | 100.0 |



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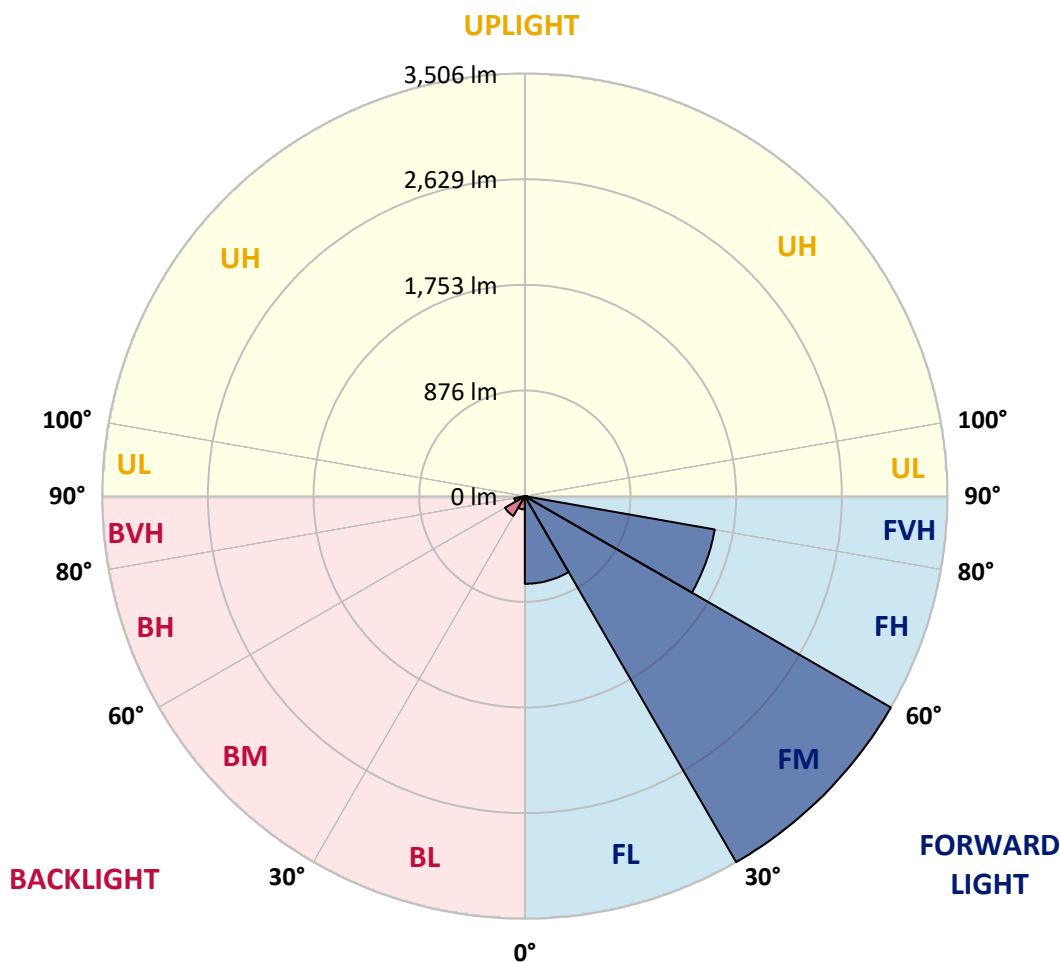
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 727.1 | 11.6 | | | |
| FM (30°-60°) | 3505.6 | 56.2 | | | |
| FH (60°-80°) | 1599.4 | 25.6 | | | G1/1800 |
| FVH (80°-90°) | 19.7 | 0.3 | | | G1/100 |
| BL (0°-30°) | 110.6 | 1.8 | B1/500 | | |
| BM (30°-60°) | 189.8 | 3.0 | B0/220 | | |
| BH (60°-80°) | 88.5 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 597.9 | 597.9 | 597.9 | 597.9 | 597.9 | 597.9 | 597.9 | 597.9 | 597.9 | 597.9 | 597.9 |
| 2.5° | 897.6 | 864.9 | 871.1 | 857.6 | 840.1 | 799.6 | 756.8 | 713.9 | 675.6 | 667.2 | 628.8 |
| 5° | 1149.5 | 1139.4 | 1128.6 | 1119.6 | 1083.0 | 1032.3 | 955.1 | 857.1 | 768.6 | 753.4 | 673.9 |
| 7.5° | 1345.0 | 1329.8 | 1339.4 | 1311.8 | 1273.5 | 1224.4 | 1126.4 | 1021.6 | 885.2 | 862.7 | 739.3 |
| 10° | 1489.3 | 1480.8 | 1485.3 | 1472.4 | 1453.8 | 1404.8 | 1307.8 | 1176.5 | 1018.8 | 975.9 | 812.5 |
| 12.5° | 1597.5 | 1599.2 | 1618.9 | 1620.0 | 1604.8 | 1564.8 | 1462.2 | 1325.3 | 1139.9 | 1101.6 | 893.7 |
| 15° | 1676.3 | 1678.0 | 1702.3 | 1728.2 | 1745.7 | 1724.8 | 1631.8 | 1478.6 | 1282.5 | 1230.1 | 978.8 |
| 17.5° | 1689.3 | 1690.4 | 1733.3 | 1785.7 | 1839.8 | 1857.8 | 1786.2 | 1630.7 | 1412.6 | 1352.9 | 1076.2 |
| 20° | 1697.8 | 1707.3 | 1745.7 | 1805.9 | 1891.6 | 1947.4 | 1908.5 | 1776.6 | 1538.9 | 1469.6 | 1172.0 |
| 22.5° | 1800.3 | 1800.3 | 1822.9 | 1865.7 | 1933.9 | 2021.2 | 2013.3 | 1910.8 | 1661.7 | 1593.0 | 1267.3 |
| 25° | 2017.8 | 2017.8 | 1995.8 | 1984.6 | 2021.2 | 2089.9 | 2109.7 | 2053.9 | 1802.0 | 1720.9 | 1367.6 |
| 27.5° | 2305.8 | 2305.8 | 2271.4 | 2188.5 | 2157.0 | 2185.7 | 2206.6 | 2178.4 | 1931.6 | 1851.6 | 1473.5 |
| 30° | 2604.4 | 2614.5 | 2554.8 | 2449.4 | 2339.0 | 2317.0 | 2296.7 | 2290.5 | 2069.7 | 1979.5 | 1581.1 |
| 32.5° | 2904.2 | 2903.0 | 2828.7 | 2697.4 | 2553.1 | 2475.4 | 2409.4 | 2402.1 | 2216.2 | 2127.7 | 1683.1 |
| 35° | 3143.6 | 3144.2 | 3065.9 | 2931.2 | 2764.4 | 2665.3 | 2559.3 | 2524.9 | 2376.8 | 2278.1 | 1804.8 |
| 37.5° | 3351.0 | 3339.2 | 3254.6 | 3126.7 | 2971.2 | 2868.7 | 2736.8 | 2647.2 | 2543.0 | 2442.7 | 1926.5 |
| 40° | 3469.9 | 3454.1 | 3371.9 | 3250.1 | 3132.4 | 3054.1 | 2938.0 | 2794.9 | 2725.5 | 2617.4 | 2065.1 |
| 42.5° | 3487.4 | 3473.8 | 3419.2 | 3345.9 | 3249.6 | 3180.8 | 3149.8 | 2961.6 | 2917.1 | 2819.1 | 2230.8 |
| 45° | 3438.3 | 3416.4 | 3398.3 | 3360.0 | 3333.0 | 3299.7 | 3342.0 | 3139.1 | 3136.9 | 3039.4 | 2394.8 |
| 47.5° | 3316.6 | 3286.8 | 3291.3 | 3333.5 | 3364.0 | 3393.8 | 3525.7 | 3371.9 | 3358.3 | 3267.0 | 2610.0 |
| 50° | 3108.7 | 3094.1 | 3143.6 | 3227.0 | 3347.6 | 3467.1 | 3708.8 | 3609.6 | 3663.2 | 3577.5 | 2907.0 |
| 52.5° | 2686.1 | 2704.1 | 2852.3 | 3052.9 | 3261.4 | 3501.5 | 3880.7 | 3964.6 | 4101.6 | 4031.1 | 3205.6 |
| 55° | 2179.0 | 2172.2 | 2370.0 | 2726.1 | 3059.1 | 3479.5 | 3955.6 | 4173.7 | 4388.9 | 4315.1 | 3371.9 |
| 57.5° | 1755.2 | 1767.1 | 1900.6 | 2252.8 | 2716.0 | 3309.9 | 3973.1 | 4283.0 | 4504.4 | 4455.4 | 3525.7 |
| 60° | 1317.4 | 1328.7 | 1450.4 | 1756.9 | 2259.5 | 2956.0 | 3828.8 | 4321.3 | 4721.4 | 4684.2 | 3771.4 |
| 62.5° | 838.5 | 853.1 | 975.4 | 1273.5 | 1727.1 | 2406.1 | 3504.8 | 4281.3 | 4947.9 | 4978.9 | 4106.6 |
| 65° | 412.5 | 425.4 | 515.6 | 743.8 | 1154.6 | 1799.2 | 3052.9 | 4128.6 | 5236.4 | 5324.9 | 4375.4 |
| 67.5° | 228.2 | 234.4 | 265.4 | 378.7 | 644.1 | 1234.0 | 2453.4 | 3802.4 | 5368.8 | 5487.2 | 4393.4 |
| 70° | 177.5 | 179.2 | 191.0 | 220.9 | 313.9 | 724.1 | 1745.1 | 3259.2 | 5094.4 | 5237.5 | 4027.7 |
| 72.5° | 149.3 | 151.6 | 157.2 | 167.4 | 196.1 | 377.0 | 1096.5 | 2518.7 | 4286.4 | 4351.2 | 3116.0 |
| 75° | 109.3 | 112.7 | 128.5 | 137.5 | 155.0 | 228.8 | 483.5 | 1513.5 | 2832.6 | 2768.9 | 1743.4 |
| 77.5° | 91.8 | 94.7 | 98.6 | 111.6 | 127.9 | 156.1 | 169.6 | 634.5 | 1152.9 | 1002.4 | 457.5 |
| 80° | 62.5 | 65.9 | 76.6 | 83.4 | 108.2 | 103.1 | 70.4 | 170.2 | 231.6 | 188.8 | 87.9 |
| 82.5° | 44.5 | 47.3 | 53.0 | 68.2 | 78.3 | 54.7 | 38.3 | 51.8 | 55.8 | 53.0 | 28.7 |
| 85° | 14.1 | 18.0 | 38.3 | 56.3 | 42.3 | 18.6 | 24.2 | 19.7 | 17.5 | 16.9 | 11.3 |
| 87.5° | 2.8 | 2.8 | 19.2 | 22.5 | 16.9 | 9.6 | 8.5 | 6.2 | 7.9 | 7.9 | 6.2 |
| 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° | 597.9 | 597.9 | 597.9 | 597.9 | 597.9 | 597.9 | 597.9 | 597.9 | 597.9 | 597.9 | 597.9 |
| 2.5° | 610.8 | 585.5 | 548.8 | 514.5 | 479.5 | 454.7 | 437.3 | 419.8 | 413.0 | 410.2 | 402.9 |
| 5° | 637.9 | 589.4 | 516.7 | 458.1 | 415.3 | 388.2 | 371.9 | 357.8 | 348.8 | 346.0 | 342.0 |
| 7.5° | 676.7 | 606.9 | 502.6 | 435.0 | 392.2 | 362.9 | 336.4 | 306.0 | 281.7 | 272.2 | 268.2 |
| 10° | 719.0 | 633.3 | 504.9 | 430.5 | 373.6 | 309.3 | 250.2 | 201.2 | 179.7 | 171.9 | 166.2 |
| 12.5° | 781.0 | 662.7 | 514.5 | 425.4 | 317.8 | 220.9 | 160.0 | 139.7 | 134.7 | 133.5 | 132.4 |
| 15° | 843.0 | 703.8 | 530.2 | 391.6 | 237.2 | 150.4 | 133.0 | 125.7 | 122.8 | 120.0 | 120.0 |
| 17.5° | 905.5 | 743.2 | 536.4 | 325.7 | 164.0 | 130.2 | 121.1 | 114.9 | 110.4 | 108.2 | 106.5 |
| 20° | 975.9 | 784.9 | 518.4 | 245.1 | 131.3 | 118.9 | 108.8 | 101.4 | 97.5 | 95.2 | 93.5 |
| 22.5° | 1052.0 | 826.1 | 479.0 | 170.7 | 119.5 | 107.1 | 97.5 | 90.2 | 86.2 | 84.0 | 83.4 |
| 25° | 1123.6 | 861.6 | 415.8 | 128.5 | 107.6 | 95.8 | 86.8 | 80.6 | 77.8 | 75.5 | 74.9 |
| 27.5° | 1197.4 | 892.0 | 333.6 | 113.3 | 98.0 | 86.8 | 77.8 | 72.7 | 69.9 | 68.2 | 67.6 |
| 30° | 1269.5 | 912.8 | 248.5 | 103.7 | 89.6 | 78.3 | 70.4 | 66.5 | 63.7 | 62.0 | 61.4 |
| 32.5° | 1343.9 | 924.7 | 167.9 | 95.2 | 81.1 | 71.0 | 64.2 | 60.3 | 58.6 | 56.9 | 56.9 |
| 35° | 1415.5 | 923.0 | 121.1 | 87.3 | 74.4 | 64.2 | 58.0 | 55.2 | 54.7 | 53.0 | 53.0 |
| 37.5° | 1493.8 | 911.1 | 103.1 | 80.0 | 67.1 | 58.0 | 53.0 | 51.3 | 50.7 | 49.6 | 49.0 |
| 40° | 1582.8 | 884.7 | 94.1 | 74.4 | 60.9 | 53.0 | 48.5 | 47.3 | 46.8 | 45.6 | 45.6 |
| 42.5° | 1680.3 | 850.3 | 89.0 | 68.2 | 55.8 | 47.9 | 44.5 | 42.8 | 42.3 | 41.1 | 41.1 |
| 45° | 1793.6 | 817.6 | 85.6 | 62.0 | 51.3 | 44.0 | 40.6 | 38.9 | 38.3 | 37.2 | 37.2 |
| 47.5° | 1947.9 | 799.0 | 80.0 | 56.3 | 46.2 | 40.0 | 36.6 | 35.5 | 34.4 | 33.2 | 33.2 |
| 50° | 2160.4 | 777.0 | 72.7 | 50.7 | 42.3 | 36.1 | 33.8 | 32.1 | 31.6 | 30.4 | 30.4 |
| 52.5° | 2335.1 | 730.3 | 65.4 | 45.1 | 37.8 | 33.2 | 31.0 | 29.9 | 28.7 | 28.2 | 28.2 |
| 55° | 2396.5 | 675.6 | 58.0 | 40.6 | 34.4 | 31.0 | 28.7 | 27.6 | 27.0 | 26.5 | 26.5 |
| 57.5° | 2494.5 | 658.1 | 51.3 | 36.1 | 31.0 | 28.7 | 26.5 | 25.9 | 25.4 | 24.8 | 24.2 |
| 60° | 2661.9 | 668.3 | 45.1 | 32.1 | 28.2 | 25.9 | 24.2 | 23.7 | 22.5 | 21.4 | 21.4 |
| 62.5° | 2824.2 | 655.9 | 38.3 | 28.2 | 24.2 | 23.1 | 21.4 | 20.3 | 18.0 | 16.3 | 15.2 |
| 65° | 2863.6 | 573.1 | 33.2 | 23.7 | 20.3 | 19.2 | 17.5 | 15.2 | 11.8 | 9.6 | 9.6 |
| 67.5° | 2672.6 | 435.6 | 28.7 | 20.3 | 16.9 | 15.8 | 12.4 | 10.1 | 7.3 | 5.6 | 5.6 |
| 70° | 2205.5 | 276.1 | 23.7 | 15.8 | 14.1 | 10.7 | 7.9 | 7.3 | 5.1 | 4.5 | 3.9 |
| 72.5° | 1591.3 | 151.0 | 19.7 | 13.0 | 10.1 | 6.8 | 5.6 | 4.5 | 3.4 | 2.3 | 2.3 |
| 75° | 805.8 | 71.0 | 14.7 | 10.1 | 6.8 | 4.5 | 3.4 | 2.3 | 2.3 | 1.7 | 1.7 |
| 77.5° | 228.2 | 32.7 | 9.6 | 6.8 | 4.5 | 2.8 | 2.3 | 1.7 | 1.7 | 1.1 | 1.1 |
| 80° | 45.1 | 16.3 | 6.2 | 4.5 | 3.4 | 2.3 | 1.7 | 1.1 | 1.1 | 0.6 | 0.6 |
| 82.5° | 16.3 | 8.5 | 4.5 | 3.4 | 2.8 | 2.3 | 1.1 | 0.6 | 0.6 | 0.0 | 0.0 |
| 85° | 8.5 | 4.5 | 3.4 | 2.8 | 2.3 | 1.7 | 1.1 | 0.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.5 | 3.4 | 2.8 | 2.8 | 2.3 | 1.7 | 1.1 | 0.6 | 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)