

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: P673128

Luminaire Tested: **CCP-SA-2E-740-U-T2-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673128  
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-T2-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T2 distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

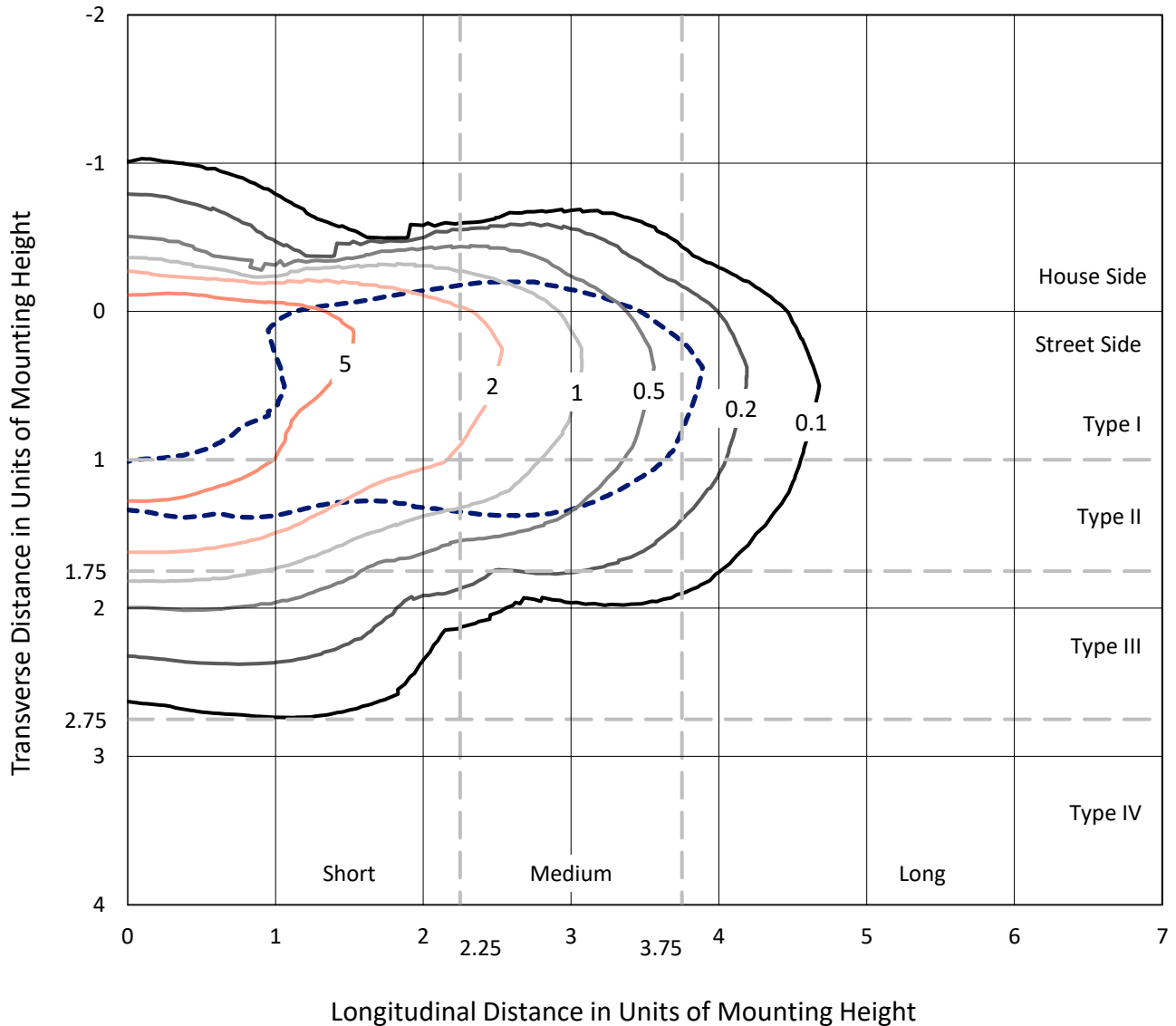
Lumens per Lamp: N/A  
Luminaire Lumens: 10556.1 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

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

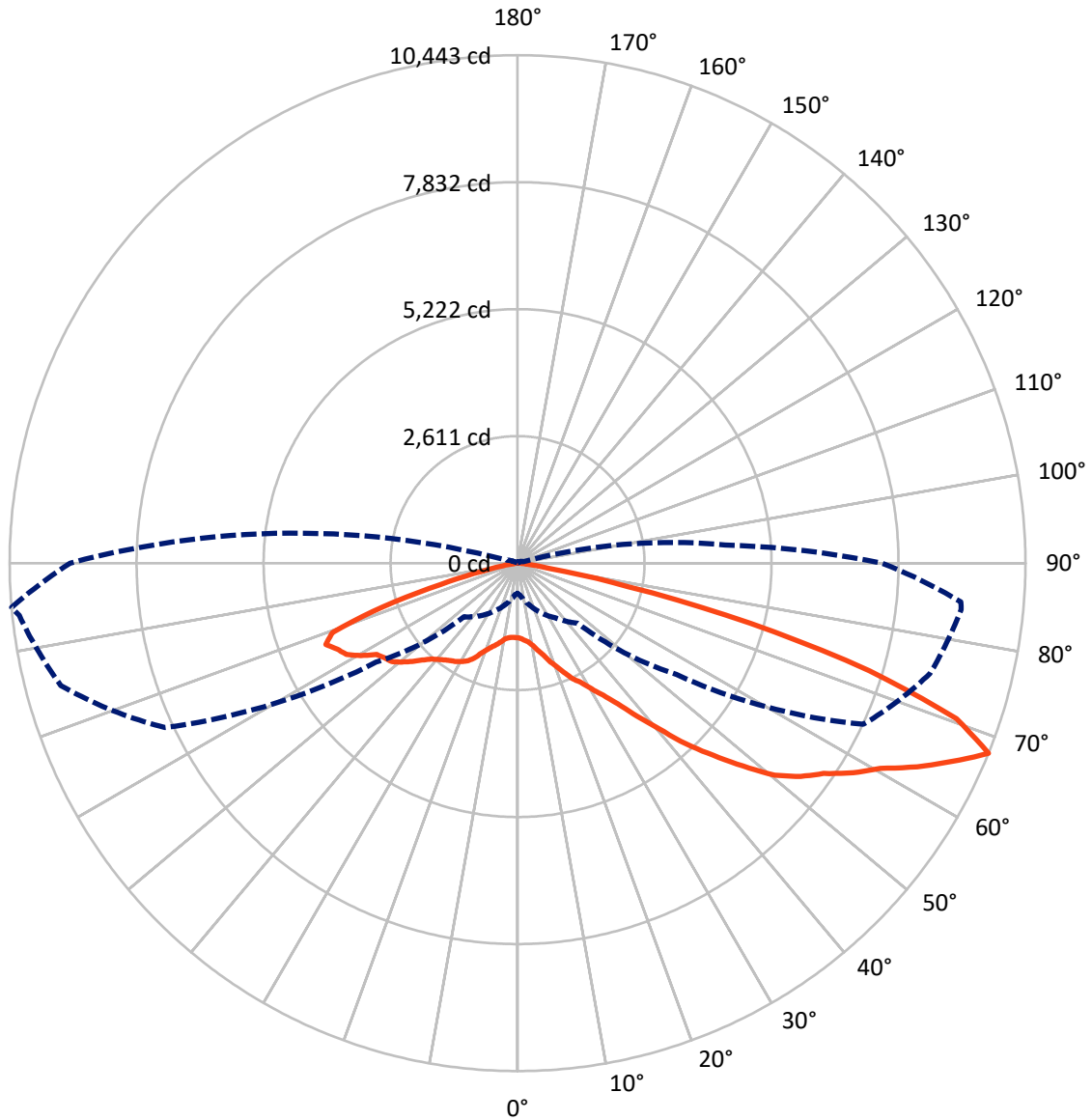
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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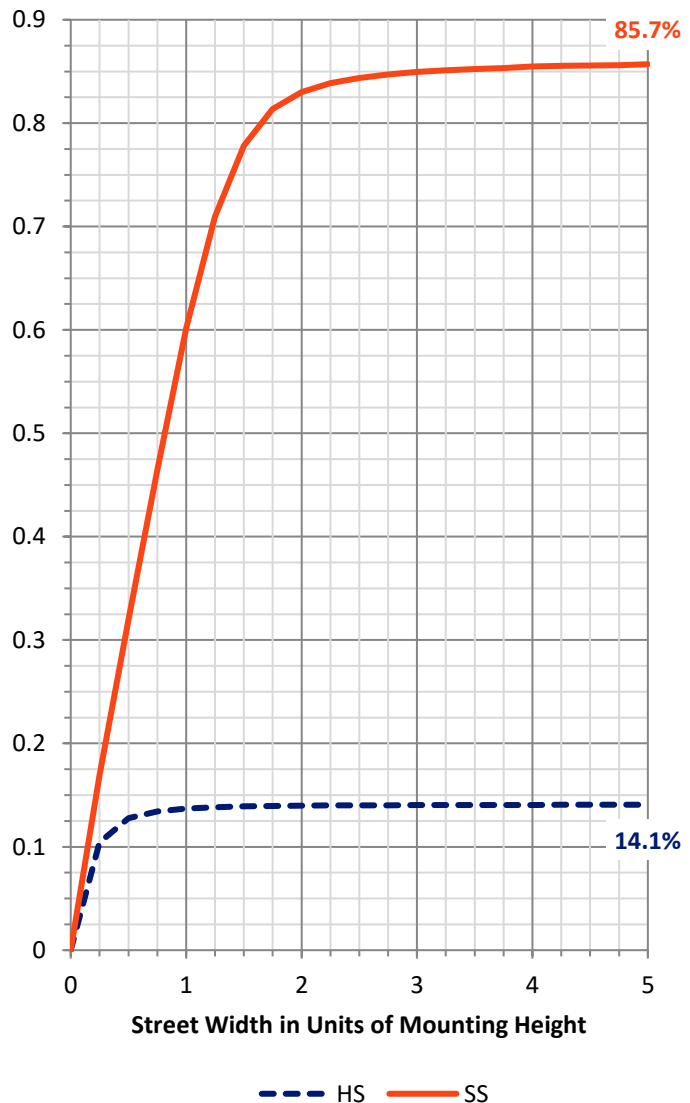
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1499.7   | 0.0    | 1499.7  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 9056.5   | 0.0    | 9056.5  |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 10556.1  | 0.0    | 10556.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 140.0   | 1.3       |
| 10°-20°   | 376.4   | 3.6       |
| 20°-30°   | 625.1   | 5.9       |
| 30°-40°   | 1075.4  | 10.2      |
| 40°-50°   | 1932.5  | 18.3      |
| 50°-60°   | 2751.1  | 26.1      |
| 60°-70°   | 2508.2  | 23.8      |
| 70°-80°   | 1068.0  | 10.1      |
| 80°-90°   | 79.5    | 0.8       |
| 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°    | 10556.1 | 100.0     |
| 0°-180°   | 10556.1 | 100.0     |



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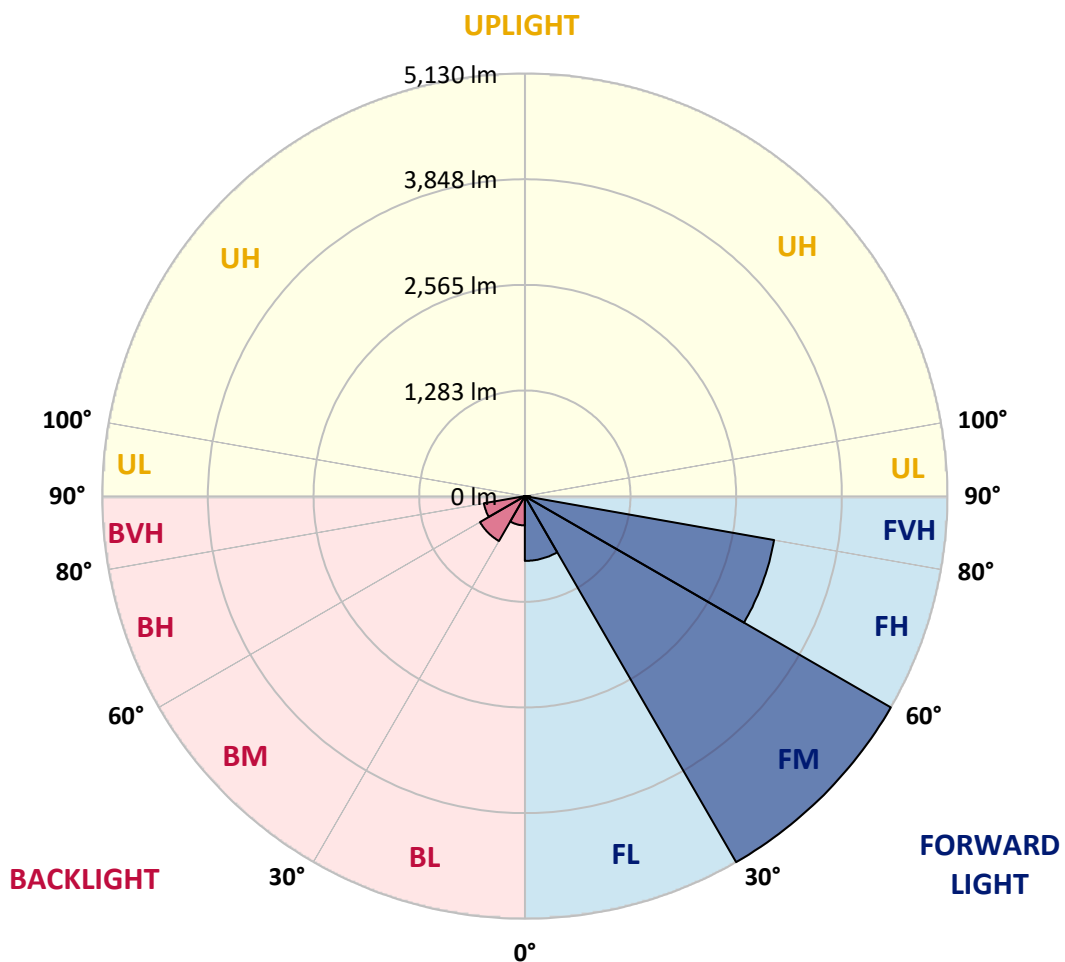
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 786.4  | 7.4       |                         |      |         |
| FM (30°-60°)   | 5130.3 | 48.6      |                         |      |         |
| FH (60°-80°)   | 3072.3 | 29.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 67.5   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 355.0  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 628.7  | 6.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 503.9  | 4.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 12.0   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 84°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 |
| 2.5°  | 1590.4 | 1605.5 | 1605.5 | 1600.4 | 1585.3 | 1575.3 | 1570.2 | 1560.2 | 1550.1 | 1550.1 | 1555.1 |
| 5°    | 1605.5 | 1590.4 | 1610.5 | 1585.3 | 1585.3 | 1585.3 | 1605.5 | 1595.4 | 1590.4 | 1565.2 | 1565.2 |
| 7.5°  | 1605.5 | 1590.4 | 1590.4 | 1605.5 | 1590.4 | 1600.4 | 1625.6 | 1615.5 | 1635.7 | 1590.4 | 1600.4 |
| 10°   | 1560.2 | 1555.1 | 1565.2 | 1585.3 | 1590.4 | 1610.5 | 1635.7 | 1686.0 | 1691.0 | 1660.8 | 1655.8 |
| 12.5° | 1469.6 | 1464.6 | 1499.8 | 1509.9 | 1570.2 | 1620.6 | 1696.1 | 1736.3 | 1781.6 | 1766.5 | 1736.3 |
| 15°   | 1404.2 | 1414.2 | 1439.4 | 1479.7 | 1535.0 | 1625.6 | 1711.2 | 1801.8 | 1882.3 | 1862.1 | 1852.1 |
| 17.5° | 1429.3 | 1424.3 | 1429.3 | 1454.5 | 1524.9 | 1615.5 | 1761.5 | 1867.2 | 1982.9 | 1982.9 | 1993.0 |
| 20°   | 1504.8 | 1519.9 | 1514.9 | 1499.8 | 1535.0 | 1610.5 | 1761.5 | 1947.7 | 2139.0 | 2123.9 | 2123.9 |
| 22.5° | 1635.7 | 1640.7 | 1610.5 | 1600.4 | 1595.4 | 1640.7 | 1791.7 | 2048.4 | 2269.8 | 2300.0 | 2289.9 |
| 25°   | 1771.6 | 1776.6 | 1766.5 | 1736.3 | 1696.1 | 1706.1 | 1847.1 | 2128.9 | 2451.0 | 2501.3 | 2491.3 |
| 27.5° | 1998.0 | 1993.0 | 1967.8 | 1932.6 | 1872.2 | 1826.9 | 1932.6 | 2189.3 | 2591.9 | 2677.5 | 2652.3 |
| 30°   | 2224.5 | 2209.4 | 2174.2 | 2128.9 | 2073.5 | 1988.0 | 2038.3 | 2305.0 | 2768.1 | 2848.6 | 2793.2 |
| 32.5° | 2501.3 | 2471.1 | 2481.2 | 2410.7 | 2295.0 | 2159.1 | 2149.0 | 2410.7 | 2909.0 | 3024.7 | 2979.4 |
| 35°   | 2853.6 | 2818.4 | 2768.1 | 2702.6 | 2591.9 | 2410.7 | 2355.4 | 2581.8 | 3145.5 | 3231.1 | 3231.1 |
| 37.5° | 3316.6 | 3351.9 | 3291.5 | 3019.7 | 2898.9 | 2727.8 | 2612.0 | 2758.0 | 3351.9 | 3558.2 | 3507.9 |
| 40°   | 3789.7 | 3819.9 | 3709.2 | 3507.9 | 3246.2 | 3034.8 | 2964.3 | 3044.9 | 3663.9 | 3910.5 | 3814.9 |
| 42.5° | 4172.2 | 4212.5 | 4172.2 | 3910.5 | 3704.2 | 3432.4 | 3306.6 | 3382.1 | 4066.5 | 4363.5 | 4237.6 |
| 45°   | 4574.8 | 4615.1 | 4569.8 | 4398.7 | 4197.4 | 4041.4 | 3724.3 | 3819.9 | 4489.3 | 4932.2 | 4791.3 |
| 47.5° | 4876.8 | 4927.1 | 4846.6 | 4811.4 | 4650.3 | 4625.2 | 4086.7 | 4192.4 | 4932.2 | 5505.9 | 5329.8 |
| 50°   | 4947.3 | 5002.6 | 5073.1 | 5113.4 | 5058.0 | 5118.4 | 4574.8 | 4665.4 | 5395.2 | 6034.4 | 5863.3 |
| 52.5° | 4781.2 | 4836.6 | 4992.6 | 5178.8 | 5435.5 | 5616.6 | 5068.1 | 5143.6 | 5878.4 | 6472.2 | 6381.6 |
| 55°   | 4293.0 | 4343.3 | 4660.4 | 4912.0 | 5526.1 | 5823.0 | 5541.2 | 5858.2 | 6225.6 | 6930.2 | 6708.8 |
| 57.5° | 3472.7 | 3533.1 | 3950.8 | 4338.3 | 5224.1 | 5707.2 | 5823.0 | 6452.1 | 6799.4 | 7267.4 | 7010.7 |
| 60°   | 2466.1 | 2501.3 | 2863.7 | 3548.1 | 4388.6 | 5128.5 | 5767.6 | 6895.0 | 7252.3 | 7720.4 | 7584.5 |
| 62.5° | 1419.3 | 1449.5 | 1826.9 | 2471.1 | 3311.6 | 4282.9 | 5521.0 | 7312.7 | 7740.5 | 8218.6 | 8143.1 |
| 65°   | 941.1  | 951.2  | 1207.9 | 1560.2 | 2154.1 | 3155.6 | 4896.9 | 7685.1 | 8223.7 | 8616.2 | 8530.7 |
| 67.5° | 619.0  | 674.4  | 875.7  | 1117.3 | 1379.0 | 1746.4 | 3991.0 | 7841.2 | 8777.3 | 9169.8 | 9149.7 |
| 70°   | 442.9  | 463.0  | 629.1  | 860.6  | 1036.8 | 981.4  | 2335.2 | 6739.0 | 8752.1 | 9320.8 | 9154.7 |
| 72.5° | 261.7  | 281.8  | 417.7  | 644.2  | 815.3  | 624.1  | 1092.1 | 4766.1 | 7252.3 | 7438.5 | 7393.2 |
| 75°   | 191.2  | 191.2  | 256.7  | 463.0  | 593.9  | 447.9  | 513.3  | 3014.7 | 4816.4 | 5229.1 | 5224.1 |
| 77.5° | 135.9  | 140.9  | 176.1  | 276.8  | 458.0  | 327.1  | 281.8  | 1675.9 | 2632.2 | 2878.8 | 2742.9 |
| 80°   | 80.5   | 85.6   | 120.8  | 166.1  | 332.2  | 236.5  | 186.2  | 765.0  | 1011.6 | 1021.7 | 971.3  |
| 82.5° | 60.4   | 60.4   | 80.5   | 115.8  | 231.5  | 161.1  | 115.8  | 291.9  | 327.1  | 296.9  | 251.6  |
| 85°   | 35.2   | 30.2   | 60.4   | 85.6   | 135.9  | 90.6   | 80.5   | 135.9  | 151.0  | 110.7  | 100.7  |
| 87.5° | 10.1   | 10.1   | 25.2   | 30.2   | 60.4   | 50.3   | 35.2   | 50.3   | 70.5   | 40.3   | 30.2   |
| 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°    | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 |
| 2.5°  | 1545.1 | 1530.0 | 1504.8 | 1494.8 | 1459.5 | 1444.4 | 1434.4 | 1409.2 | 1414.2 | 1399.1 | 1399.1 |
| 5°    | 1530.0 | 1530.0 | 1479.7 | 1424.3 | 1368.9 | 1333.7 | 1293.4 | 1243.1 | 1243.1 | 1223.0 | 1228.0 |
| 7.5°  | 1585.3 | 1545.1 | 1479.7 | 1379.0 | 1288.4 | 1207.9 | 1172.7 | 1122.3 | 1092.1 | 1077.0 | 1077.0 |
| 10°   | 1620.6 | 1580.3 | 1469.6 | 1348.8 | 1233.0 | 1132.4 | 1056.9 | 986.4  | 946.2  | 946.2  | 941.1  |
| 12.5° | 1716.2 | 1655.8 | 1509.9 | 1343.8 | 1172.7 | 1021.7 | 905.9  | 825.4  | 770.0  | 729.8  | 739.8  |
| 15°   | 1796.7 | 1731.3 | 1530.0 | 1303.5 | 1067.0 | 855.6  | 714.7  | 563.7  | 488.2  | 447.9  | 432.8  |
| 17.5° | 1922.5 | 1801.8 | 1575.3 | 1233.0 | 905.9  | 669.4  | 463.0  | 337.2  | 307.0  | 302.0  | 302.0  |
| 20°   | 2028.2 | 1887.3 | 1580.3 | 1097.2 | 744.9  | 427.8  | 296.9  | 276.8  | 261.7  | 256.7  | 251.6  |
| 22.5° | 2174.2 | 1998.0 | 1560.2 | 941.1  | 533.5  | 286.9  | 251.6  | 231.5  | 221.4  | 206.3  | 206.3  |
| 25°   | 2325.2 | 2144.0 | 1519.9 | 795.2  | 327.1  | 246.6  | 221.4  | 201.3  | 181.2  | 171.1  | 176.1  |
| 27.5° | 2486.2 | 2254.7 | 1404.2 | 619.0  | 251.6  | 216.4  | 181.2  | 166.1  | 156.0  | 151.0  | 151.0  |
| 30°   | 2617.1 | 2325.2 | 1233.0 | 412.7  | 226.5  | 191.2  | 161.1  | 146.0  | 135.9  | 130.9  | 130.9  |
| 32.5° | 2712.7 | 2385.6 | 1041.8 | 276.8  | 206.3  | 171.1  | 146.0  | 130.9  | 120.8  | 115.8  | 115.8  |
| 35°   | 2873.7 | 2430.9 | 865.6  | 236.5  | 186.2  | 151.0  | 125.8  | 115.8  | 105.7  | 105.7  | 105.7  |
| 37.5° | 3120.4 | 2491.3 | 689.5  | 216.4  | 171.1  | 135.9  | 120.8  | 105.7  | 100.7  | 95.6   | 95.6   |
| 40°   | 3336.8 | 2566.7 | 493.2  | 196.3  | 156.0  | 125.8  | 105.7  | 95.6   | 90.6   | 85.6   | 85.6   |
| 42.5° | 3648.8 | 2652.3 | 322.1  | 176.1  | 140.9  | 115.8  | 95.6   | 85.6   | 80.5   | 75.5   | 75.5   |
| 45°   | 4046.4 | 2793.2 | 251.6  | 156.0  | 125.8  | 105.7  | 90.6   | 80.5   | 70.5   | 70.5   | 65.4   |
| 47.5° | 4469.2 | 2964.3 | 226.5  | 146.0  | 115.8  | 95.6   | 80.5   | 70.5   | 65.4   | 60.4   | 60.4   |
| 50°   | 4861.7 | 3130.4 | 211.4  | 135.9  | 105.7  | 90.6   | 75.5   | 65.4   | 55.4   | 50.3   | 50.3   |
| 52.5° | 5214.0 | 3286.4 | 201.3  | 125.8  | 100.7  | 80.5   | 65.4   | 55.4   | 50.3   | 45.3   | 45.3   |
| 55°   | 5400.2 | 3356.9 | 196.3  | 120.8  | 90.6   | 75.5   | 60.4   | 50.3   | 45.3   | 40.3   | 40.3   |
| 57.5° | 5692.1 | 3447.5 | 191.2  | 115.8  | 85.6   | 65.4   | 55.4   | 45.3   | 40.3   | 35.2   | 35.2   |
| 60°   | 6165.2 | 3744.4 | 186.2  | 110.7  | 80.5   | 65.4   | 50.3   | 40.3   | 30.2   | 25.2   | 25.2   |
| 62.5° | 6557.8 | 3991.0 | 166.1  | 95.6   | 70.5   | 55.4   | 40.3   | 30.2   | 20.1   | 15.1   | 15.1   |
| 65°   | 7005.7 | 4106.8 | 146.0  | 85.6   | 60.4   | 45.3   | 30.2   | 20.1   | 15.1   | 5.0    | 5.0    |
| 67.5° | 7493.9 | 4282.9 | 120.8  | 75.5   | 55.4   | 35.2   | 25.2   | 15.1   | 5.0    | 0.0    | 0.0    |
| 70°   | 7237.2 | 4061.5 | 100.7  | 65.4   | 50.3   | 30.2   | 20.1   | 10.1   | 0.0    | 0.0    | 0.0    |
| 72.5° | 5672.0 | 2909.0 | 80.5   | 60.4   | 45.3   | 30.2   | 20.1   | 5.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 3789.7 | 1645.7 | 70.5   | 50.3   | 35.2   | 25.2   | 15.1   | 5.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 2058.4 | 739.8  | 60.4   | 45.3   | 30.2   | 20.1   | 15.1   | 5.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 669.4  | 291.9  | 50.3   | 40.3   | 30.2   | 20.1   | 15.1   | 5.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 181.2  | 90.6   | 50.3   | 40.3   | 30.2   | 20.1   | 15.1   | 5.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 75.5   | 60.4   | 50.3   | 40.3   | 30.2   | 20.1   | 15.1   | 5.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 30.2   | 20.1   | 20.1   | 25.2   | 20.1   | 15.1   | 10.1   | 5.0    | 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    |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0°    | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0  |
| 2.5°  | 1404.2 | 1414.2 | 1419.3 | 1419.3 | 1444.4 | 1469.6 | 1499.8 | 1524.9 | 1524.9 | 1540.0 | 1555.1  |
| 5°    | 1233.0 | 1243.1 | 1258.2 | 1303.5 | 1353.8 | 1409.2 | 1464.6 | 1504.8 | 1560.2 | 1585.3 | 1600.4  |
| 7.5°  | 1092.1 | 1102.2 | 1142.5 | 1187.7 | 1258.2 | 1353.8 | 1449.5 | 1540.0 | 1595.4 | 1620.6 | 1640.7  |
| 10°   | 946.2  | 961.3  | 1006.6 | 1087.1 | 1177.7 | 1293.4 | 1404.2 | 1560.2 | 1650.8 | 1701.1 | 1721.2  |
| 12.5° | 734.8  | 775.1  | 835.5  | 921.0  | 1036.8 | 1212.9 | 1419.3 | 1580.3 | 1736.3 | 1796.7 | 1837.0  |
| 15°   | 463.0  | 498.3  | 593.9  | 729.8  | 885.8  | 1092.1 | 1379.0 | 1610.5 | 1826.9 | 1887.3 | 1952.7  |
| 17.5° | 296.9  | 302.0  | 332.2  | 478.1  | 679.4  | 941.1  | 1318.6 | 1655.8 | 1927.6 | 2013.1 | 2113.8  |
| 20°   | 251.6  | 261.7  | 266.7  | 286.9  | 453.0  | 775.1  | 1192.8 | 1711.2 | 2048.4 | 2164.1 | 2259.7  |
| 22.5° | 211.4  | 216.4  | 226.5  | 241.6  | 271.8  | 563.7  | 1021.7 | 1711.2 | 2154.1 | 2325.2 | 2435.9  |
| 25°   | 171.1  | 181.2  | 191.2  | 206.3  | 236.5  | 352.3  | 845.5  | 1681.0 | 2279.9 | 2491.3 | 2632.2  |
| 27.5° | 151.0  | 151.0  | 161.1  | 176.1  | 201.3  | 246.6  | 669.4  | 1590.4 | 2375.5 | 2591.9 | 2778.1  |
| 30°   | 130.9  | 135.9  | 140.9  | 156.0  | 181.2  | 216.4  | 463.0  | 1444.4 | 2476.2 | 2788.2 | 2999.6  |
| 32.5° | 115.8  | 115.8  | 125.8  | 135.9  | 161.1  | 196.3  | 296.9  | 1223.0 | 2607.0 | 2939.2 | 3236.1  |
| 35°   | 105.7  | 105.7  | 110.7  | 120.8  | 146.0  | 176.1  | 231.5  | 1036.8 | 2763.0 | 3226.0 | 3553.2  |
| 37.5° | 95.6   | 95.6   | 100.7  | 110.7  | 130.9  | 156.0  | 211.4  | 890.8  | 2924.1 | 3512.9 | 3991.0  |
| 40°   | 85.6   | 85.6   | 90.6   | 100.7  | 115.8  | 140.9  | 191.2  | 719.7  | 3125.4 | 3935.7 | 4469.2  |
| 42.5° | 75.5   | 75.5   | 80.5   | 90.6   | 105.7  | 125.8  | 166.1  | 538.5  | 3392.1 | 4393.7 | 5088.2  |
| 45°   | 65.4   | 65.4   | 70.5   | 80.5   | 90.6   | 115.8  | 151.0  | 412.7  | 3684.0 | 4902.0 | 5631.7  |
| 47.5° | 55.4   | 60.4   | 65.4   | 75.5   | 85.6   | 105.7  | 135.9  | 362.4  | 3970.9 | 5440.5 | 6235.7  |
| 50°   | 50.3   | 50.3   | 55.4   | 65.4   | 80.5   | 95.6   | 125.8  | 357.3  | 4262.8 | 5853.2 | 6854.7  |
| 52.5° | 45.3   | 45.3   | 50.3   | 60.4   | 75.5   | 90.6   | 120.8  | 367.4  | 4504.4 | 6235.7 | 7287.5  |
| 55°   | 40.3   | 40.3   | 45.3   | 50.3   | 65.4   | 85.6   | 110.7  | 377.5  | 4675.5 | 6623.2 | 7634.8  |
| 57.5° | 35.2   | 35.2   | 40.3   | 50.3   | 60.4   | 75.5   | 100.7  | 387.5  | 4952.3 | 7005.7 | 8138.1  |
| 60°   | 25.2   | 25.2   | 35.2   | 45.3   | 55.4   | 65.4   | 95.6   | 397.6  | 5395.2 | 7534.2 | 8565.9  |
| 62.5° | 15.1   | 15.1   | 20.1   | 35.2   | 45.3   | 60.4   | 85.6   | 377.5  | 5807.9 | 8213.6 | 9220.2  |
| 65°   | 5.0    | 10.1   | 15.1   | 20.1   | 35.2   | 50.3   | 70.5   | 342.2  | 6155.2 | 8893.0 | 9824.1  |
| 67.5° | 0.0    | 0.0    | 5.0    | 15.1   | 30.2   | 40.3   | 60.4   | 251.6  | 6210.5 | 9200.0 | 10443.1 |
| 70°   | 0.0    | 0.0    | 5.0    | 15.1   | 25.2   | 40.3   | 55.4   | 140.9  | 5289.5 | 8218.6 | 9572.5  |
| 72.5° | 0.0    | 0.0    | 0.0    | 10.1   | 25.2   | 35.2   | 50.3   | 105.7  | 3900.4 | 6195.4 | 7564.4  |
| 75°   | 0.0    | 0.0    | 0.0    | 5.0    | 20.1   | 30.2   | 45.3   | 80.5   | 2370.5 | 4132.0 | 4937.2  |
| 77.5° | 0.0    | 0.0    | 0.0    | 5.0    | 15.1   | 30.2   | 45.3   | 70.5   | 835.5  | 1967.8 | 2320.1  |
| 80°   | 0.0    | 0.0    | 0.0    | 10.1   | 20.1   | 30.2   | 40.3   | 60.4   | 201.3  | 493.2  | 664.3   |
| 82.5° | 0.0    | 0.0    | 0.0    | 5.0    | 15.1   | 25.2   | 35.2   | 50.3   | 80.5   | 146.0  | 231.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 5.0    | 10.1   | 25.2   | 35.2   | 45.3   | 55.4   | 70.5   | 100.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 5.0    | 10.1   | 15.1   | 20.1   | 20.1   | 20.1   | 35.2    |
| 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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| 0°    | 1535.0  | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 | 1535.0 |
| 2.5°  | 1550.1  | 1570.2 | 1580.3 | 1600.4 | 1610.5 | 1605.5 | 1600.4 | 1615.5 | 1605.5 | 1590.4 |
| 5°    | 1605.5  | 1605.5 | 1620.6 | 1625.6 | 1625.6 | 1610.5 | 1620.6 | 1615.5 | 1605.5 | 1605.5 |
| 7.5°  | 1665.9  | 1691.0 | 1691.0 | 1660.8 | 1655.8 | 1645.7 | 1645.7 | 1605.5 | 1590.4 | 1605.5 |
| 10°   | 1726.3  | 1746.4 | 1751.4 | 1716.2 | 1670.9 | 1650.8 | 1625.6 | 1575.3 | 1550.1 | 1560.2 |
| 12.5° | 1852.1  | 1852.1 | 1796.7 | 1756.5 | 1696.1 | 1625.6 | 1565.2 | 1494.8 | 1459.5 | 1469.6 |
| 15°   | 1942.7  | 1962.8 | 1887.3 | 1796.7 | 1691.0 | 1560.2 | 1494.8 | 1439.4 | 1419.3 | 1404.2 |
| 17.5° | 2118.8  | 2078.6 | 1957.8 | 1826.9 | 1675.9 | 1540.0 | 1494.8 | 1444.4 | 1429.3 | 1429.3 |
| 20°   | 2269.8  | 2249.7 | 2068.5 | 1832.0 | 1670.9 | 1580.3 | 1550.1 | 1524.9 | 1519.9 | 1504.8 |
| 22.5° | 2476.2  | 2385.6 | 2154.1 | 1887.3 | 1726.3 | 1645.7 | 1635.7 | 1660.8 | 1645.7 | 1635.7 |
| 25°   | 2632.2  | 2556.7 | 2219.5 | 1967.8 | 1811.8 | 1786.7 | 1801.8 | 1826.9 | 1786.7 | 1771.6 |
| 27.5° | 2843.6  | 2702.6 | 2345.3 | 2073.5 | 1927.6 | 1952.7 | 2003.1 | 2008.1 | 1982.9 | 1998.0 |
| 30°   | 3039.8  | 2888.8 | 2440.9 | 2194.3 | 2123.9 | 2149.0 | 2224.5 | 2279.9 | 2244.6 | 2224.5 |
| 32.5° | 3321.7  | 3090.2 | 2632.2 | 2395.6 | 2370.5 | 2435.9 | 2521.5 | 2556.7 | 2511.4 | 2501.3 |
| 35°   | 3618.6  | 3321.7 | 2828.5 | 2622.1 | 2667.4 | 2758.0 | 2833.5 | 2893.9 | 2823.4 | 2853.6 |
| 37.5° | 4081.6  | 3694.1 | 3160.6 | 2979.4 | 2999.6 | 3034.8 | 3175.7 | 3341.8 | 3377.0 | 3316.6 |
| 40°   | 4564.8  | 4096.7 | 3467.6 | 3326.7 | 3372.0 | 3467.6 | 3633.7 | 3789.7 | 3870.3 | 3789.7 |
| 42.5° | 5123.4  | 4484.3 | 3940.7 | 3774.6 | 3819.9 | 3955.8 | 4177.3 | 4303.1 | 4293.0 | 4172.2 |
| 45°   | 5812.9  | 5022.8 | 4383.6 | 4177.3 | 4343.3 | 4464.1 | 4685.6 | 4700.7 | 4605.0 | 4574.8 |
| 47.5° | 6341.4  | 5475.7 | 4861.7 | 4730.9 | 4957.3 | 4962.4 | 5012.7 | 5017.7 | 4912.0 | 4876.8 |
| 50°   | 6925.2  | 5999.1 | 5395.2 | 5204.0 | 5586.4 | 5410.3 | 5274.4 | 5183.8 | 5022.8 | 4947.3 |
| 52.5° | 7498.9  | 6371.6 | 5888.4 | 5692.1 | 6089.7 | 5621.7 | 5375.1 | 5098.3 | 4861.7 | 4781.2 |
| 55°   | 7805.9  | 6985.6 | 6608.1 | 6150.1 | 6200.5 | 5682.1 | 5063.0 | 4715.8 | 4313.1 | 4293.0 |
| 57.5° | 8168.3  | 7398.3 | 7217.1 | 6462.2 | 6014.2 | 5259.3 | 4413.8 | 3955.8 | 3523.0 | 3472.7 |
| 60°   | 8596.1  | 8052.5 | 7861.3 | 6411.8 | 5354.9 | 4418.8 | 3497.8 | 2909.0 | 2501.3 | 2466.1 |
| 62.5° | 9074.2  | 8827.6 | 8258.9 | 5918.6 | 4252.7 | 3110.3 | 2310.1 | 1816.9 | 1439.4 | 1419.3 |
| 65°   | 9829.1  | 9476.8 | 8470.3 | 4982.5 | 2813.4 | 1993.0 | 1535.0 | 1177.7 | 951.2  | 941.1  |
| 67.5° | 10302.2 | 9723.4 | 7997.2 | 3553.2 | 1560.2 | 1318.6 | 1077.0 | 855.6  | 659.3  | 619.0  |
| 70°   | 9632.8  | 8923.2 | 6326.3 | 2033.3 | 905.9  | 1001.5 | 830.4  | 573.7  | 453.0  | 442.9  |
| 72.5° | 7695.2  | 6623.2 | 4257.8 | 956.2  | 563.7  | 785.1  | 603.9  | 387.5  | 271.8  | 261.7  |
| 75°   | 5249.2  | 4167.2 | 2672.4 | 442.9  | 397.6  | 573.7  | 442.9  | 226.5  | 191.2  | 191.2  |
| 77.5° | 2345.3  | 2123.9 | 1368.9 | 271.8  | 296.9  | 437.9  | 256.7  | 156.0  | 140.9  | 135.9  |
| 80°   | 714.7   | 749.9  | 558.6  | 186.2  | 221.4  | 332.2  | 156.0  | 105.7  | 85.6   | 80.5   |
| 82.5° | 241.6   | 281.8  | 251.6  | 110.7  | 151.0  | 236.5  | 105.7  | 70.5   | 60.4   | 60.4   |
| 85°   | 115.8   | 140.9  | 125.8  | 70.5   | 80.5   | 115.8  | 85.6   | 55.4   | 35.2   | 35.2   |
| 87.5° | 45.3    | 65.4   | 45.3   | 30.2   | 45.3   | 60.4   | 35.2   | 25.2   | 10.1   | 10.1   |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)