

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: P674179

Luminaire Tested: **CCP-SA-2D-830-U-SLL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674179
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-830-U-SLL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ SLL distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

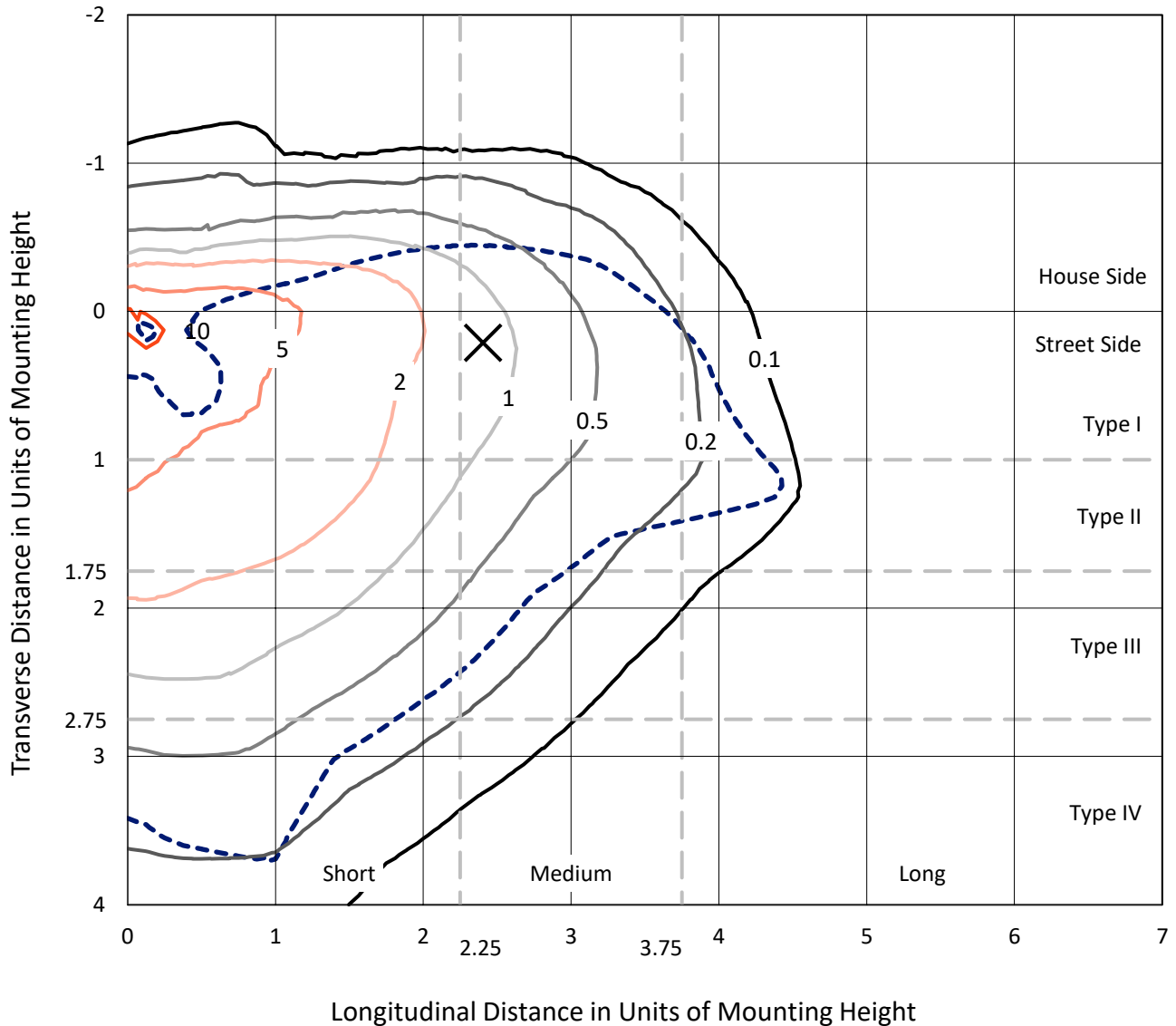
Lumens per Lamp: N/A
Luminaire Lumens: 6429.7 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
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

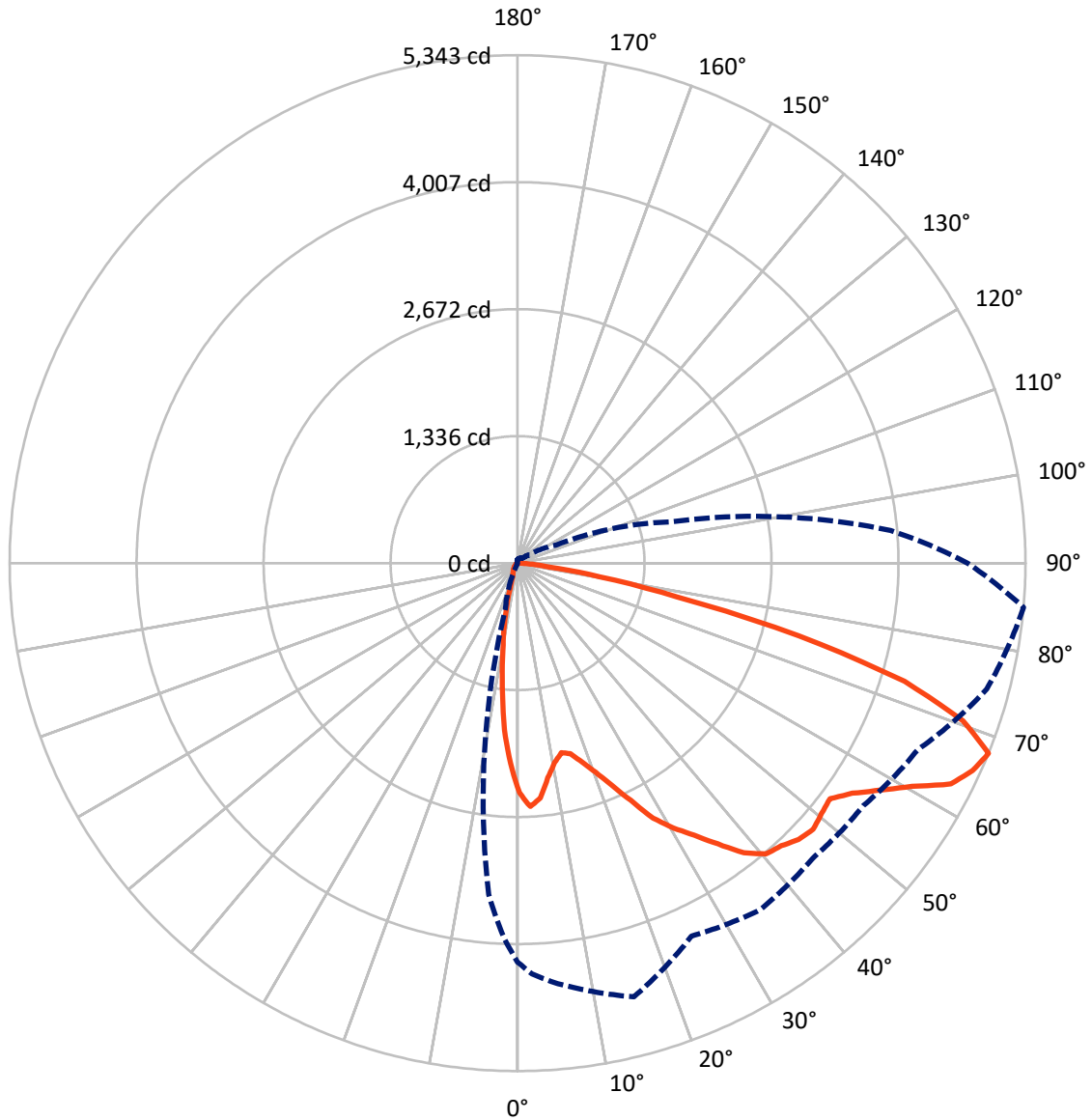
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1116.4 | 0.0 | 1116.4 |
| | % Fixture | 17.4 | 0.0 | 17.4 |
| Street Side | Lumens | 5313.3 | 0.0 | 5313.3 |
| | % Fixture | 82.6 | 0.0 | 82.6 |
| Total | Lumens | 6429.7 | 0.0 | 6429.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 183.7 | 2.9 |
| 10°-20° | 360.1 | 5.6 |
| 20°-30° | 498.4 | 7.8 |
| 30°-40° | 704.3 | 11.0 |
| 40°-50° | 959.0 | 14.9 |
| 50°-60° | 1270.1 | 19.8 |
| 60°-70° | 1474.7 | 22.9 |
| 70°-80° | 835.1 | 13.0 |
| 80°-90° | 144.3 | 2.2 |
| 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° | 6429.7 | 100.0 |
| 0°-180° | 6429.7 | 100.0 |

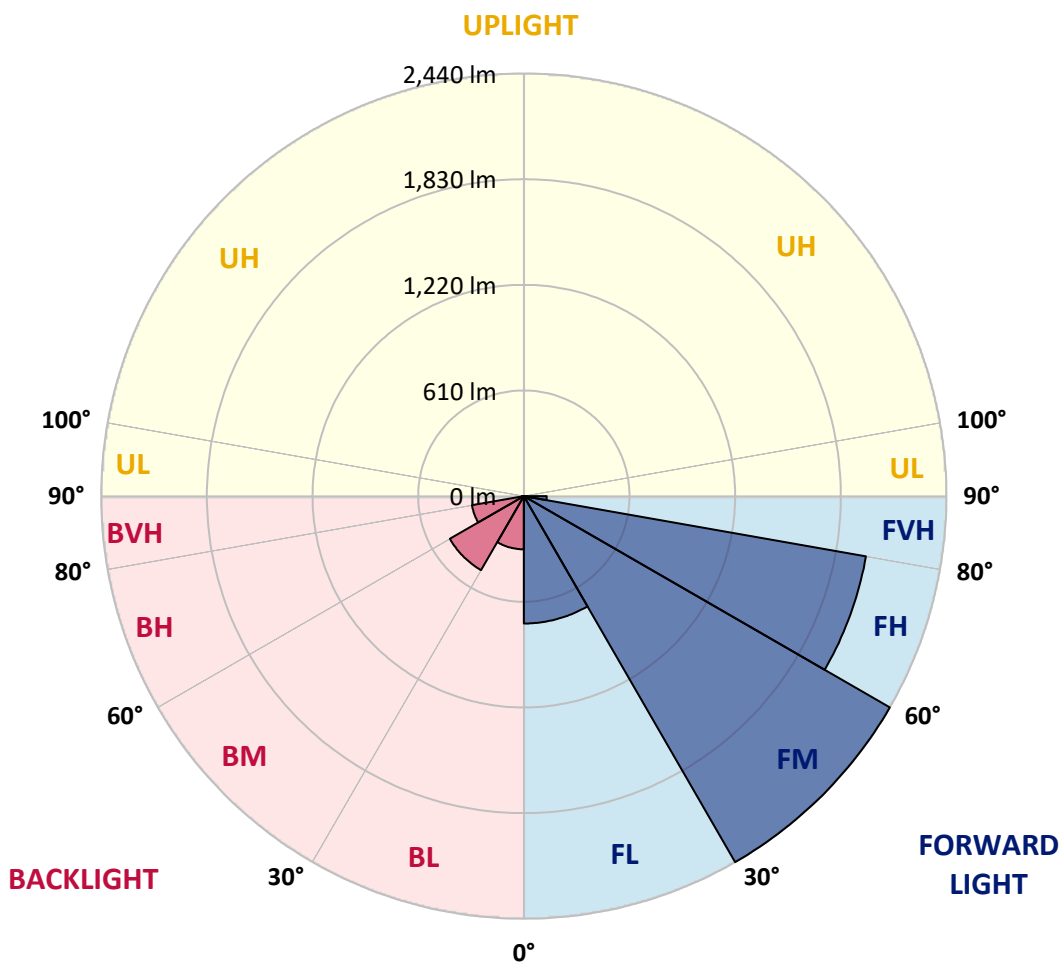


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 735.3 | 11.4 | | | |
| FM (30°-60°) | 2440.1 | 38.0 | | | |
| FH (60°-80°) | 2005.8 | 31.2 | | | G2/5000 |
| FVH (80°-90°) | 132.1 | 2.1 | | | G2/225 |
| BL (0°-30°) | 306.9 | 4.8 | B1/500 | | |
| BM (30°-60°) | 493.3 | 7.7 | B1/1000 | | |
| BH (60°-80°) | 304.0 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.2 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 |
| 2.5° | 2512.0 | 2565.2 | 2566.9 | 2591.0 | 2615.0 | 2615.0 | 2671.7 | 2657.9 | 2608.1 | 2599.5 | 2563.5 |
| 5° | 2530.9 | 2549.7 | 2563.5 | 2685.4 | 2788.4 | 2778.1 | 2809.0 | 2788.4 | 2692.3 | 2568.6 | 2484.5 |
| 7.5° | 2367.7 | 2388.3 | 2443.3 | 2651.0 | 2790.1 | 2836.5 | 2894.9 | 2766.1 | 2664.8 | 2441.6 | 2280.2 |
| 10° | 2151.4 | 2190.9 | 2292.2 | 2529.1 | 2700.8 | 2848.5 | 2848.5 | 2745.5 | 2549.7 | 2331.7 | 2134.2 |
| 12.5° | 2031.2 | 2110.2 | 2165.1 | 2405.5 | 2628.7 | 2730.0 | 2726.6 | 2671.7 | 2544.6 | 2269.9 | 2046.7 |
| 15° | 2051.8 | 2074.1 | 2190.9 | 2378.0 | 2525.7 | 2520.6 | 2582.4 | 2565.2 | 2475.9 | 2324.8 | 2079.3 |
| 17.5° | 2146.2 | 2180.6 | 2281.9 | 2378.0 | 2448.4 | 2427.8 | 2426.1 | 2508.5 | 2513.7 | 2417.5 | 2201.2 |
| 20° | 2300.8 | 2402.1 | 2450.2 | 2479.3 | 2393.5 | 2305.9 | 2295.6 | 2410.7 | 2500.0 | 2536.0 | 2347.1 |
| 22.5° | 2548.0 | 2615.0 | 2712.9 | 2563.5 | 2340.3 | 2230.4 | 2209.8 | 2336.8 | 2517.1 | 2676.8 | 2536.0 |
| 25° | 2790.1 | 2841.6 | 2936.1 | 2743.8 | 2400.4 | 2214.9 | 2178.9 | 2288.8 | 2582.4 | 2872.5 | 2764.4 |
| 27.5° | 3046.0 | 3090.6 | 3100.9 | 2876.0 | 2433.0 | 2184.0 | 2141.1 | 2288.8 | 2637.3 | 2975.6 | 3037.4 |
| 30° | 3202.2 | 3255.4 | 3265.7 | 2992.7 | 2486.2 | 2209.8 | 2189.2 | 2299.1 | 2675.1 | 3063.1 | 3233.1 |
| 32.5° | 3377.3 | 3391.1 | 3382.5 | 3013.3 | 2544.6 | 2285.3 | 2199.5 | 2367.7 | 2718.0 | 3167.9 | 3411.7 |
| 35° | 3586.8 | 3610.8 | 3523.3 | 3107.8 | 2675.1 | 2333.4 | 2302.5 | 2451.9 | 2791.8 | 3215.9 | 3628.0 |
| 37.5° | 3746.5 | 3822.0 | 3624.6 | 3143.8 | 2700.8 | 2434.7 | 2439.9 | 2627.0 | 2843.4 | 3274.3 | 3866.7 |
| 40° | 4047.0 | 3919.9 | 3796.3 | 3267.4 | 2798.7 | 2606.4 | 2578.9 | 2807.3 | 3016.8 | 3312.1 | 4022.9 |
| 42.5° | 4211.8 | 4144.8 | 3863.2 | 3279.5 | 2949.8 | 2843.4 | 2850.2 | 3011.6 | 3107.8 | 3418.5 | 4065.9 |
| 45° | 4253.0 | 4182.6 | 3954.2 | 3288.1 | 3099.2 | 3123.2 | 3241.7 | 3272.6 | 3241.7 | 3488.9 | 4146.6 |
| 47.5° | 4357.7 | 4204.9 | 3943.9 | 3403.1 | 3341.3 | 3434.0 | 3585.1 | 3652.1 | 3423.7 | 3463.2 | 4184.3 |
| 50° | 4337.1 | 4249.6 | 3921.6 | 3451.2 | 3636.6 | 3882.1 | 3983.4 | 3956.0 | 3626.3 | 3410.0 | 4143.1 |
| 52.5° | 4251.3 | 4156.9 | 3990.3 | 3581.7 | 3913.0 | 4210.1 | 4350.9 | 4282.2 | 3806.6 | 3530.2 | 4115.6 |
| 55° | 4376.6 | 4304.5 | 4079.6 | 3758.5 | 4120.8 | 4498.5 | 4598.1 | 4546.6 | 4028.1 | 3641.8 | 4271.9 |
| 57.5° | 4512.3 | 4496.8 | 4321.7 | 3966.3 | 4366.3 | 4795.6 | 4795.6 | 4732.0 | 4220.4 | 3803.2 | 4503.7 |
| 60° | 4708.0 | 4742.4 | 4500.3 | 4103.6 | 4450.5 | 4778.4 | 5027.4 | 4953.5 | 4414.4 | 4086.5 | 4766.4 |
| 62.5° | 4644.5 | 4754.4 | 4730.3 | 4399.0 | 4546.6 | 4862.5 | 4998.2 | 5053.1 | 4654.8 | 4431.6 | 5116.7 |
| 65° | 4440.2 | 4556.9 | 4728.6 | 4593.0 | 4474.5 | 4658.2 | 4726.9 | 4893.4 | 4775.0 | 4756.1 | 5260.9 |
| 67.5° | 4196.3 | 4323.4 | 4429.9 | 4723.5 | 4328.6 | 4450.5 | 4390.4 | 4443.6 | 4644.5 | 5111.5 | 5343.3 |
| 70° | 3664.1 | 3786.0 | 3954.2 | 4433.3 | 3942.2 | 3832.3 | 3816.9 | 3791.1 | 4103.6 | 4984.4 | 4969.0 |
| 72.5° | 3013.3 | 3070.0 | 3348.1 | 3604.0 | 2917.2 | 2896.6 | 2920.6 | 2891.4 | 3253.7 | 4512.3 | 4256.4 |
| 75° | 2256.1 | 2312.8 | 2470.8 | 2767.8 | 1986.6 | 1868.1 | 2005.5 | 2141.1 | 2484.5 | 3502.7 | 3058.0 |
| 77.5° | 1696.4 | 1768.5 | 1868.1 | 2070.7 | 1457.7 | 1272.3 | 1291.2 | 1420.0 | 1796.0 | 2805.6 | 1713.6 |
| 80° | 1100.6 | 1092.0 | 1284.3 | 1425.1 | 1097.2 | 1131.5 | 1083.4 | 1177.9 | 1301.5 | 1500.7 | 875.7 |
| 82.5° | 635.3 | 643.9 | 724.6 | 817.3 | 764.1 | 874.0 | 630.1 | 1052.5 | 928.9 | 611.3 | 326.2 |
| 85° | 357.1 | 372.6 | 446.4 | 566.6 | 479.0 | 321.1 | 262.7 | 522.0 | 583.8 | 250.7 | 158.0 |
| 87.5° | 36.1 | 30.9 | 60.1 | 214.6 | 130.5 | 53.2 | 79.0 | 125.3 | 140.8 | 94.4 | 46.4 |
| 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° | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 |
| 2.5° | 2512.0 | 2512.0 | 2469.0 | 2396.9 | 2367.7 | 2316.2 | 2245.8 | 2268.2 | 2244.1 | 2156.6 | 2134.2 |
| 5° | 2408.9 | 2326.5 | 2237.2 | 2127.4 | 2063.8 | 1933.3 | 1892.1 | 1818.3 | 1830.3 | 1756.5 | 1759.9 |
| 7.5° | 2194.3 | 2129.1 | 1978.0 | 1833.8 | 1708.4 | 1595.1 | 1435.4 | 1375.3 | 1316.9 | 1287.7 | 1322.1 |
| 10° | 2069.0 | 1947.1 | 1741.0 | 1552.2 | 1385.6 | 1284.3 | 1177.9 | 1095.4 | 1019.9 | 963.2 | 951.2 |
| 12.5° | 1978.0 | 1869.8 | 1620.8 | 1390.8 | 1260.3 | 1177.9 | 1080.0 | 966.7 | 892.8 | 795.0 | 765.8 |
| 15° | 1950.5 | 1818.3 | 1555.6 | 1327.2 | 1200.2 | 1064.5 | 952.9 | 841.3 | 745.2 | 642.2 | 606.1 |
| 17.5° | 2044.9 | 1892.1 | 1553.9 | 1275.7 | 1097.2 | 951.2 | 796.7 | 671.3 | 573.5 | 479.0 | 456.7 |
| 20° | 2204.6 | 1971.1 | 1603.7 | 1244.8 | 999.3 | 803.6 | 628.4 | 503.1 | 393.2 | 331.4 | 315.9 |
| 22.5° | 2386.6 | 2105.0 | 1608.8 | 1162.4 | 901.4 | 655.9 | 458.4 | 331.4 | 269.6 | 240.4 | 231.8 |
| 25° | 2609.8 | 2319.7 | 1670.6 | 1095.4 | 786.4 | 497.9 | 326.2 | 254.1 | 218.1 | 200.9 | 197.5 |
| 27.5° | 2793.6 | 2469.0 | 1737.6 | 1025.0 | 673.1 | 369.2 | 255.8 | 207.8 | 188.9 | 171.7 | 170.0 |
| 30° | 2984.1 | 2640.7 | 1756.5 | 982.1 | 575.2 | 303.9 | 219.8 | 183.7 | 163.1 | 154.5 | 152.8 |
| 32.5° | 3150.7 | 2827.9 | 1816.6 | 911.7 | 482.5 | 267.9 | 199.2 | 164.8 | 151.1 | 137.4 | 135.6 |
| 35° | 3365.3 | 2936.1 | 1845.8 | 874.0 | 448.1 | 242.1 | 182.0 | 151.1 | 130.5 | 121.9 | 118.5 |
| 37.5° | 3595.4 | 3040.8 | 1864.7 | 844.8 | 418.9 | 226.6 | 171.7 | 142.5 | 123.6 | 111.6 | 108.2 |
| 40° | 3810.0 | 3188.5 | 1837.2 | 808.7 | 396.6 | 207.8 | 164.8 | 132.2 | 115.0 | 103.0 | 97.9 |
| 42.5° | 3974.9 | 3332.7 | 1828.6 | 774.4 | 372.6 | 200.9 | 156.2 | 127.1 | 108.2 | 94.4 | 92.7 |
| 45° | 4067.6 | 3430.6 | 1768.5 | 746.9 | 353.7 | 204.3 | 152.8 | 120.2 | 103.0 | 91.0 | 84.1 |
| 47.5° | 4045.2 | 3506.1 | 1784.0 | 738.3 | 327.9 | 190.6 | 151.1 | 115.0 | 94.4 | 84.1 | 79.0 |
| 50° | 4168.9 | 3658.9 | 1758.2 | 710.8 | 309.1 | 171.7 | 164.8 | 115.0 | 92.7 | 80.7 | 75.5 |
| 52.5° | 4189.5 | 3798.0 | 1813.2 | 661.0 | 279.9 | 158.0 | 163.1 | 113.3 | 89.3 | 77.3 | 70.4 |
| 55° | 4361.2 | 3959.4 | 1919.6 | 633.6 | 255.8 | 137.4 | 149.4 | 109.9 | 80.7 | 70.4 | 67.0 |
| 57.5° | 4594.7 | 4294.2 | 1988.3 | 607.8 | 223.2 | 120.2 | 125.3 | 108.2 | 73.8 | 65.2 | 60.1 |
| 60° | 4819.6 | 4428.1 | 1993.4 | 561.5 | 192.3 | 108.2 | 97.9 | 108.2 | 68.7 | 58.4 | 53.2 |
| 62.5° | 4987.9 | 4428.1 | 1959.1 | 522.0 | 168.3 | 96.2 | 85.8 | 103.0 | 61.8 | 51.5 | 48.1 |
| 65° | 4896.9 | 4309.7 | 1869.8 | 489.3 | 152.8 | 84.1 | 73.8 | 79.0 | 54.9 | 44.6 | 41.2 |
| 67.5° | 4733.8 | 3940.5 | 1672.4 | 449.9 | 151.1 | 73.8 | 63.5 | 58.4 | 48.1 | 39.5 | 36.1 |
| 70° | 4472.8 | 3442.6 | 1392.5 | 405.2 | 147.7 | 67.0 | 56.7 | 49.8 | 42.9 | 34.3 | 30.9 |
| 72.5° | 3604.0 | 2843.4 | 1143.5 | 379.5 | 144.2 | 58.4 | 48.1 | 42.9 | 36.1 | 29.2 | 25.8 |
| 75° | 2496.5 | 1816.6 | 880.8 | 324.5 | 140.8 | 53.2 | 44.6 | 37.8 | 30.9 | 24.0 | 22.3 |
| 77.5° | 1497.2 | 1213.9 | 568.3 | 243.8 | 92.7 | 42.9 | 37.8 | 29.2 | 25.8 | 20.6 | 18.9 |
| 80° | 700.5 | 573.5 | 230.1 | 94.4 | 44.6 | 30.9 | 25.8 | 22.3 | 20.6 | 17.2 | 15.5 |
| 82.5° | 274.7 | 242.1 | 111.6 | 54.9 | 36.1 | 24.0 | 20.6 | 18.9 | 17.2 | 13.7 | 12.0 |
| 85° | 147.7 | 130.5 | 53.2 | 37.8 | 25.8 | 17.2 | 17.2 | 15.5 | 13.7 | 12.0 | 10.3 |
| 87.5° | 32.6 | 24.0 | 22.3 | 22.3 | 18.9 | 13.7 | 13.7 | 12.0 | 10.3 | 8.6 | 6.9 |
| 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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 CATALOG NUMBER: CCP-SA-2D-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 | 2417.5 |
| 2.5° | 2122.2 | 2148.0 | 2106.8 | 2132.5 | 2096.5 | 2123.9 | 2127.4 | 2101.6 | 2108.5 | 2142.8 | 2158.3 |
| 5° | 1808.0 | 1790.8 | 1753.1 | 1741.0 | 1742.8 | 1720.4 | 1729.0 | 1741.0 | 1759.9 | 1770.2 | 1801.1 |
| 7.5° | 1303.2 | 1342.7 | 1341.0 | 1370.2 | 1371.9 | 1368.4 | 1344.4 | 1292.9 | 1310.1 | 1296.3 | 1313.5 |
| 10° | 932.3 | 949.5 | 982.1 | 1001.0 | 1035.4 | 1016.5 | 961.5 | 940.9 | 930.6 | 928.9 | 946.1 |
| 12.5° | 745.2 | 704.0 | 700.5 | 707.4 | 724.6 | 702.3 | 674.8 | 650.7 | 662.8 | 686.8 | 705.7 |
| 15° | 576.9 | 542.6 | 497.9 | 491.1 | 494.5 | 484.2 | 455.0 | 424.1 | 432.7 | 456.7 | 470.5 |
| 17.5° | 443.0 | 403.5 | 372.6 | 352.0 | 345.1 | 309.1 | 266.1 | 240.4 | 233.5 | 231.8 | 243.8 |
| 20° | 298.8 | 291.9 | 286.7 | 261.0 | 261.0 | 209.5 | 173.4 | 154.5 | 154.5 | 158.0 | 159.7 |
| 22.5° | 223.2 | 214.6 | 216.3 | 211.2 | 197.5 | 156.2 | 137.4 | 132.2 | 132.2 | 135.6 | 135.6 |
| 25° | 194.0 | 182.0 | 178.6 | 176.9 | 163.1 | 133.9 | 120.2 | 115.0 | 115.0 | 118.5 | 118.5 |
| 27.5° | 164.8 | 161.4 | 156.2 | 149.4 | 137.4 | 115.0 | 106.5 | 101.3 | 103.0 | 104.7 | 103.0 |
| 30° | 151.1 | 142.5 | 135.6 | 135.6 | 121.9 | 103.0 | 96.2 | 92.7 | 89.3 | 92.7 | 94.4 |
| 32.5° | 133.9 | 128.8 | 125.3 | 120.2 | 104.7 | 91.0 | 84.1 | 80.7 | 79.0 | 79.0 | 80.7 |
| 35° | 115.0 | 115.0 | 111.6 | 104.7 | 91.0 | 82.4 | 73.8 | 70.4 | 68.7 | 70.4 | 70.4 |
| 37.5° | 103.0 | 97.9 | 99.6 | 92.7 | 80.7 | 72.1 | 63.5 | 60.1 | 60.1 | 58.4 | 60.1 |
| 40° | 96.2 | 87.6 | 82.4 | 79.0 | 72.1 | 61.8 | 54.9 | 51.5 | 49.8 | 49.8 | 49.8 |
| 42.5° | 85.8 | 79.0 | 68.7 | 67.0 | 65.2 | 53.2 | 44.6 | 42.9 | 41.2 | 39.5 | 39.5 |
| 45° | 80.7 | 70.4 | 61.8 | 53.2 | 53.2 | 44.6 | 37.8 | 34.3 | 32.6 | 30.9 | 32.6 |
| 47.5° | 73.8 | 63.5 | 53.2 | 44.6 | 42.9 | 36.1 | 29.2 | 25.8 | 24.0 | 24.0 | 24.0 |
| 50° | 70.4 | 56.7 | 46.4 | 37.8 | 32.6 | 29.2 | 22.3 | 18.9 | 17.2 | 17.2 | 17.2 |
| 52.5° | 65.2 | 53.2 | 41.2 | 32.6 | 25.8 | 22.3 | 17.2 | 13.7 | 12.0 | 12.0 | 12.0 |
| 55° | 58.4 | 48.1 | 36.1 | 27.5 | 22.3 | 17.2 | 12.0 | 8.6 | 6.9 | 6.9 | 6.9 |
| 57.5° | 54.9 | 42.9 | 30.9 | 24.0 | 17.2 | 12.0 | 6.9 | 5.2 | 5.2 | 3.4 | 5.2 |
| 60° | 49.8 | 37.8 | 25.8 | 18.9 | 13.7 | 8.6 | 5.2 | 1.7 | 1.7 | 1.7 | 1.7 |
| 62.5° | 42.9 | 32.6 | 22.3 | 15.5 | 10.3 | 5.2 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 36.1 | 25.8 | 17.2 | 12.0 | 6.9 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 30.9 | 22.3 | 13.7 | 8.6 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 27.5 | 18.9 | 10.3 | 6.9 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 22.3 | 15.5 | 8.6 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 18.9 | 12.0 | 5.2 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 15.5 | 8.6 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 12.0 | 6.9 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 10.3 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 6.9 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.2 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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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| 32.5° | 85.8 | 94.4 | 108.2 | 127.1 | 200.9 | 626.7 | 1959.1 | 3094.0 | 3298.4 | 3377.3 |
| 35° | 73.8 | 84.1 | 92.7 | 108.2 | 152.8 | 472.2 | 1924.8 | 3226.2 | 3492.4 | 3586.8 |
| 37.5° | 65.2 | 72.1 | 80.7 | 91.0 | 128.8 | 369.2 | 1854.4 | 3384.2 | 3658.9 | 3746.5 |
| 40° | 54.9 | 60.1 | 70.4 | 80.7 | 116.8 | 285.0 | 1773.7 | 3574.8 | 3892.4 | 4047.0 |
| 42.5° | 46.4 | 51.5 | 58.4 | 75.5 | 96.2 | 211.2 | 1610.5 | 3722.5 | 4081.3 | 4211.8 |
| 45° | 36.1 | 42.9 | 53.2 | 75.5 | 77.3 | 156.2 | 1442.3 | 3832.3 | 4187.8 | 4253.0 |
| 47.5° | 27.5 | 34.3 | 51.5 | 65.2 | 61.8 | 108.2 | 1243.1 | 3957.7 | 4297.6 | 4357.7 |
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| 55° | 10.3 | 15.5 | 27.5 | 30.9 | 37.8 | 63.5 | 1052.5 | 4170.6 | 4326.8 | 4376.6 |
| 57.5° | 6.9 | 12.0 | 18.9 | 24.0 | 32.6 | 54.9 | 989.0 | 4325.1 | 4486.5 | 4512.3 |
| 60° | 3.4 | 8.6 | 13.7 | 18.9 | 27.5 | 48.1 | 899.7 | 4438.4 | 4680.5 | 4708.0 |
| 62.5° | 1.7 | 5.2 | 10.3 | 15.5 | 22.3 | 37.8 | 807.0 | 4258.2 | 4596.4 | 4644.5 |
| 65° | 0.0 | 3.4 | 6.9 | 10.3 | 13.7 | 27.5 | 655.9 | 3844.4 | 4263.3 | 4440.2 |
| 67.5° | 0.0 | 0.0 | 3.4 | 6.9 | 8.6 | 20.6 | 494.5 | 3497.5 | 3956.0 | 4196.3 |
| 70° | 0.0 | 0.0 | 1.7 | 1.7 | 5.2 | 15.5 | 315.9 | 2896.6 | 3531.9 | 3664.1 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 10.3 | 183.7 | 2151.4 | 2767.8 | 3013.3 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.6 | 92.7 | 1383.9 | 1926.5 | 2256.1 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.9 | 49.8 | 892.8 | 1420.0 | 1696.4 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 29.2 | 518.5 | 908.3 | 1100.6 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.0 | 254.1 | 542.6 | 635.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 135.6 | 271.3 | 357.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 | 18.9 | 36.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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