

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: P673693

Luminaire Tested: **CCP-SA-2E-735-U-SL2-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673693
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-735-U-SL2-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ SL2 distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

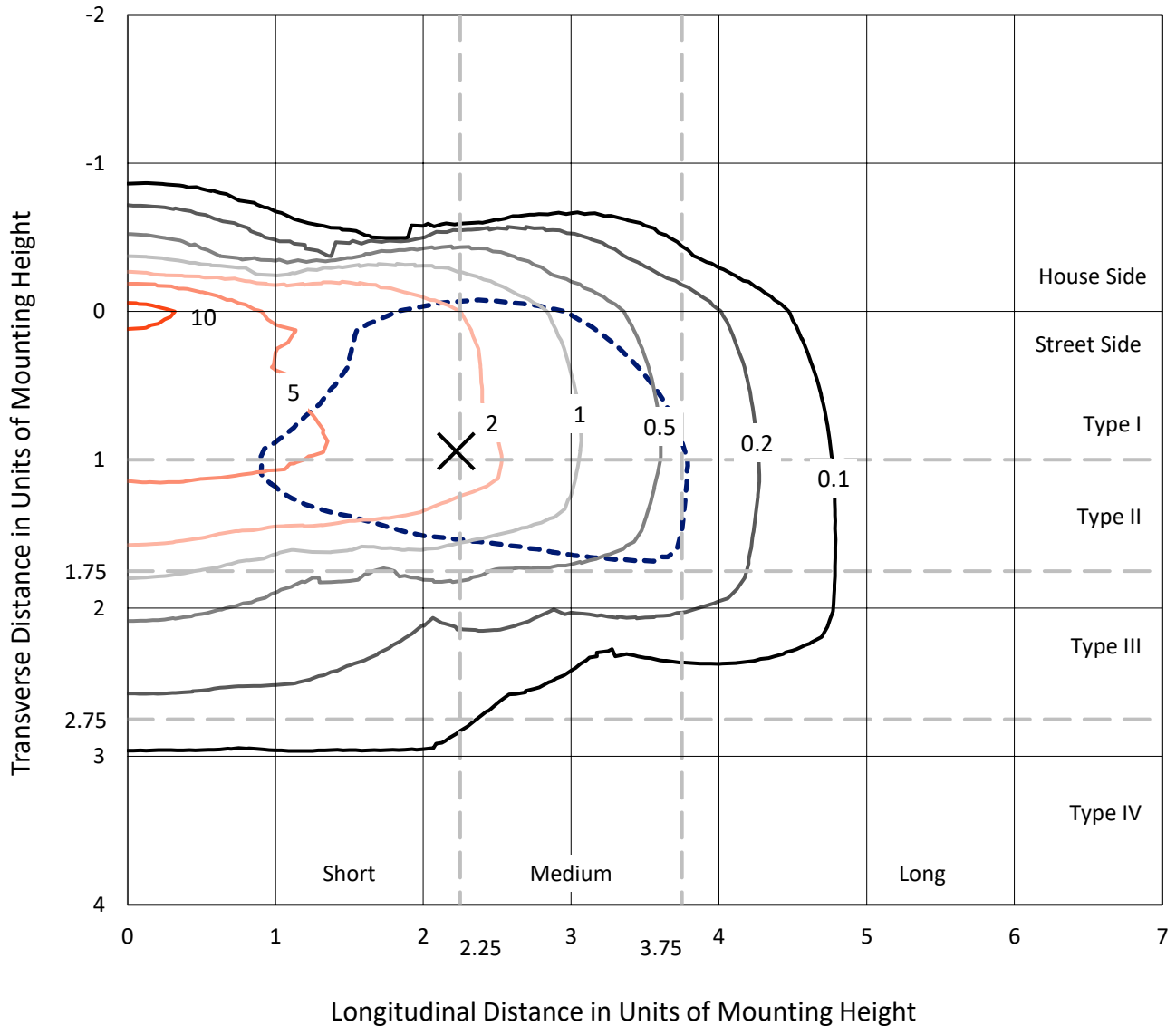
Lumens per Lamp: N/A
Luminaire Lumens: 10844.7 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (A_{in}): 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

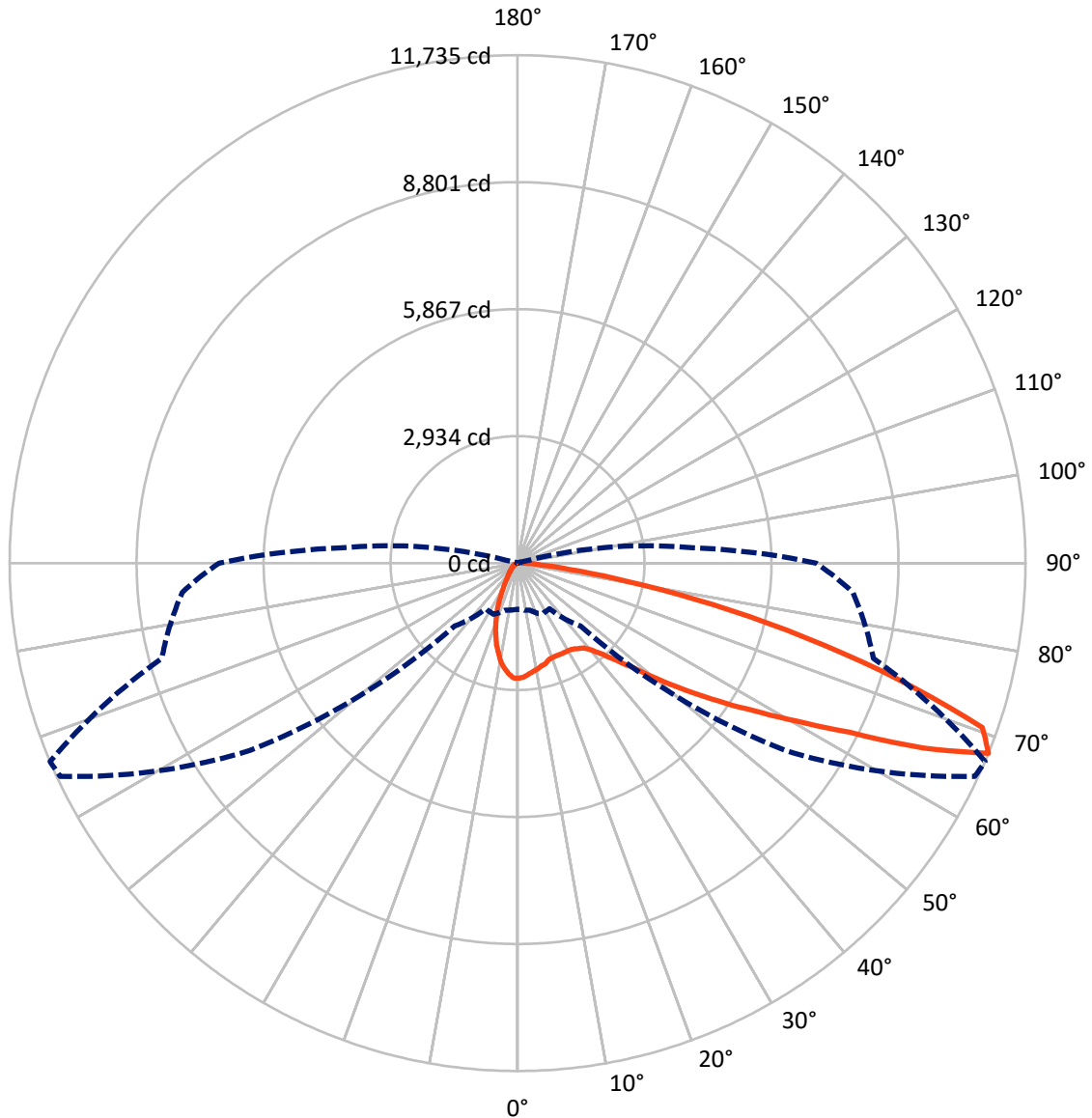
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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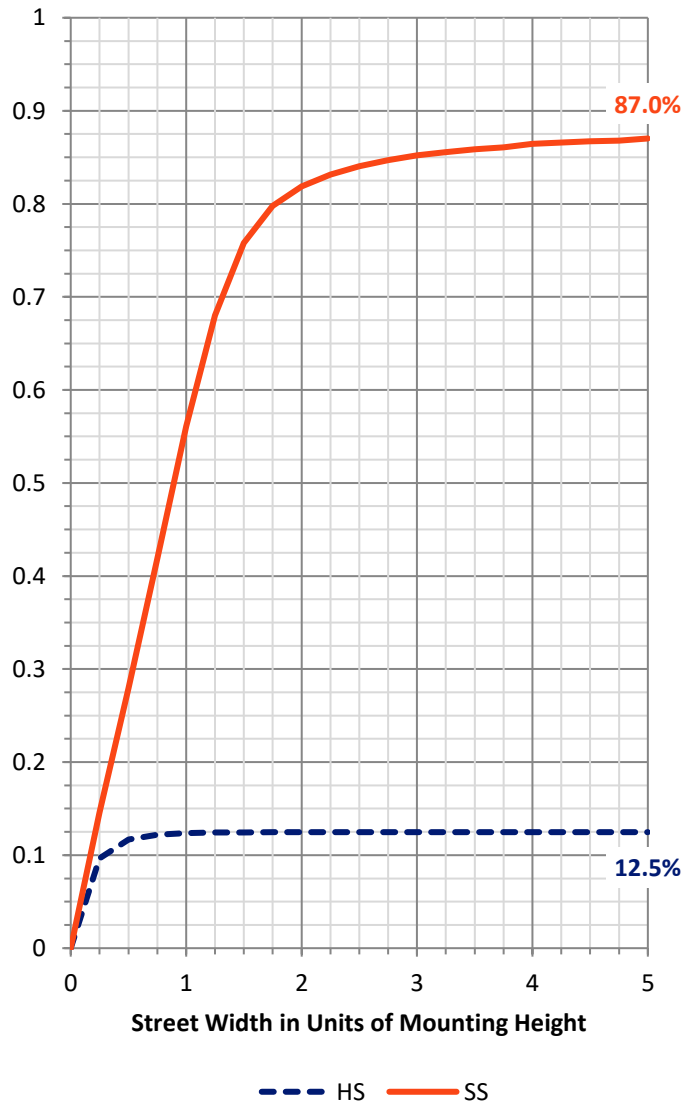
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1364.8 | 0.0 | 1364.8 |
| | % Fixture | 12.6 | 0.0 | 12.6 |
| Street Side | Lumens | 9479.8 | 0.0 | 9479.8 |
| | % Fixture | 87.4 | 0.0 | 87.4 |
| Total | Lumens | 10844.7 | 0.0 | 10844.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 224.1 | 2.1 |
| 10°-20° | 497.9 | 4.6 |
| 20°-30° | 708.0 | 6.5 |
| 30°-40° | 1030.9 | 9.5 |
| 40°-50° | 1595.5 | 14.7 |
| 50°-60° | 2448.6 | 22.6 |
| 60°-70° | 2654.2 | 24.5 |
| 70°-80° | 1497.4 | 13.8 |
| 80°-90° | 188.1 | 1.7 |
| 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° | 10844.7 | 100.0 |
| 0°-180° | 10844.7 | 100.0 |



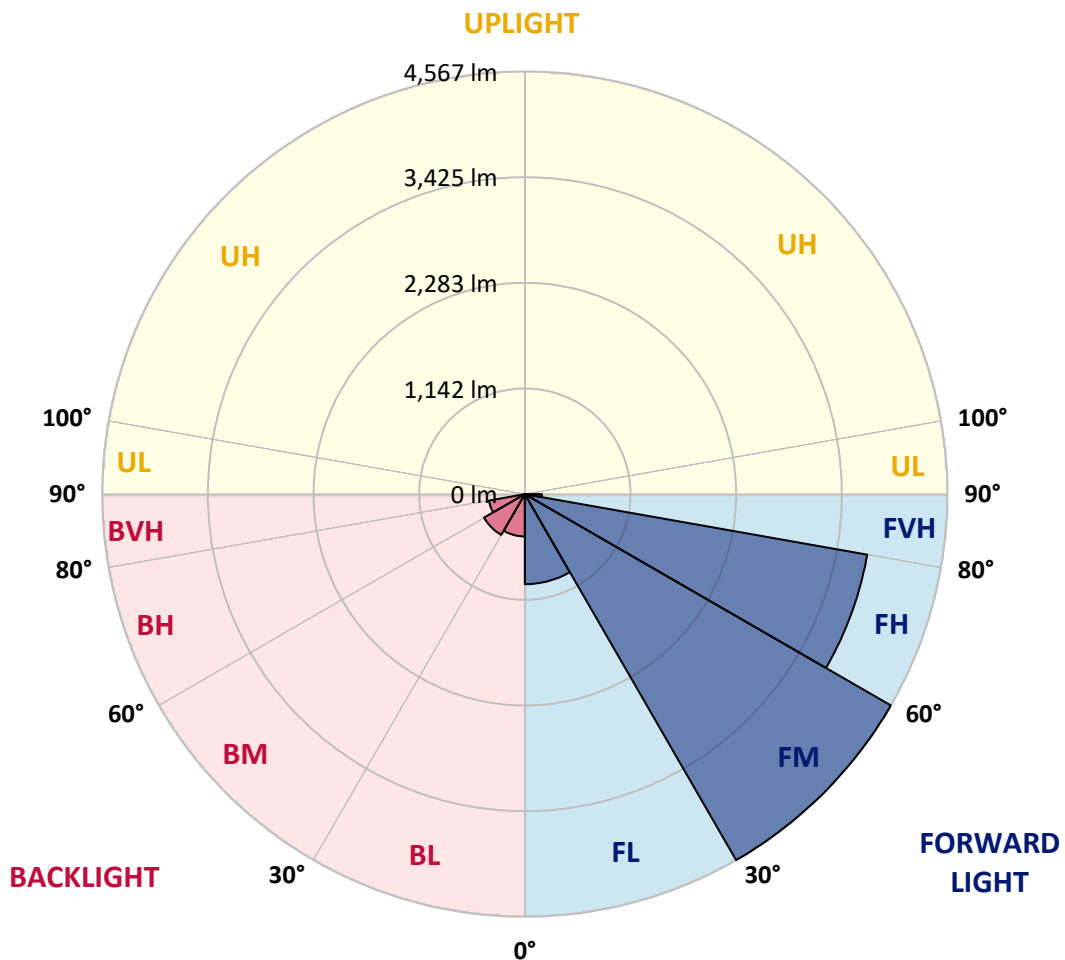
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 973.1 | 9.0 | | | |
| FM (30°-60°) | 4566.5 | 42.1 | | | |
| FH (60°-80°) | 3757.5 | 34.6 | | | G2/5000 |
| FVH (80°-90°) | 182.7 | 1.7 | | | G2/225 |
| BL (0°-30°) | 456.9 | 4.2 | B1/500 | | |
| BM (30°-60°) | 508.4 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 394.2 | 3.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.4 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0° | 2660.0 | 2660.0 | 2660.0 | 2660.0 | 2660.0 | 2660.0 | 2660.0 | 2660.0 | 2660.0 | 2660.0 | 2660.0 |
| 2.5° | 2545.0 | 2558.1 | 2576.4 | 2602.5 | 2620.8 | 2610.3 | 2618.2 | 2662.6 | 2639.1 | 2660.0 | 2649.5 |
| 5° | 2403.9 | 2417.0 | 2443.1 | 2440.5 | 2461.4 | 2500.6 | 2552.9 | 2610.3 | 2584.2 | 2646.9 | 2670.4 |
| 7.5° | 2257.6 | 2252.4 | 2252.4 | 2307.2 | 2351.7 | 2406.5 | 2435.3 | 2529.3 | 2532.0 | 2586.8 | 2644.3 |
| 10° | 2124.3 | 2140.0 | 2166.1 | 2187.0 | 2228.9 | 2307.2 | 2390.9 | 2464.0 | 2492.8 | 2602.5 | 2618.2 |
| 12.5° | 2043.3 | 2051.2 | 2082.5 | 2100.8 | 2155.7 | 2231.5 | 2320.3 | 2414.4 | 2437.9 | 2550.2 | 2626.0 |
| 15° | 2009.4 | 2027.7 | 2038.1 | 2072.1 | 2100.8 | 2171.4 | 2236.7 | 2343.8 | 2411.8 | 2500.6 | 2594.7 |
| 17.5° | 2035.5 | 2027.7 | 2032.9 | 2043.3 | 2077.3 | 2140.0 | 2210.6 | 2317.7 | 2341.2 | 2490.1 | 2631.2 |
| 20° | 2069.5 | 2072.1 | 2056.4 | 2051.2 | 2043.3 | 2103.4 | 2160.9 | 2299.4 | 2325.5 | 2490.1 | 2654.8 |
| 22.5° | 2160.9 | 2132.2 | 2160.9 | 2119.1 | 2077.3 | 2103.4 | 2158.3 | 2302.0 | 2320.3 | 2487.5 | 2678.3 |
| 25° | 2273.3 | 2278.5 | 2286.3 | 2197.5 | 2137.4 | 2119.1 | 2176.6 | 2309.9 | 2325.5 | 2508.4 | 2688.7 |
| 27.5° | 2432.7 | 2456.2 | 2417.0 | 2372.6 | 2252.4 | 2160.9 | 2174.0 | 2304.6 | 2333.4 | 2498.0 | 2714.9 |
| 30° | 2646.9 | 2628.6 | 2633.9 | 2532.0 | 2414.4 | 2270.7 | 2234.1 | 2317.7 | 2338.6 | 2511.1 | 2764.5 |
| 32.5° | 2832.4 | 2811.5 | 2848.1 | 2811.5 | 2626.0 | 2427.4 | 2304.6 | 2343.8 | 2367.3 | 2542.4 | 2806.3 |
| 35° | 2947.4 | 2973.5 | 3031.0 | 3070.2 | 2913.4 | 2631.2 | 2422.2 | 2414.4 | 2424.8 | 2558.1 | 2837.7 |
| 37.5° | 3125.1 | 3172.1 | 3219.2 | 3318.5 | 3182.6 | 2882.1 | 2607.7 | 2505.8 | 2487.5 | 2633.9 | 2853.3 |
| 40° | 3318.5 | 3305.4 | 3443.9 | 3561.5 | 3556.2 | 3234.8 | 2866.4 | 2667.8 | 2641.7 | 2754.1 | 2957.9 |
| 42.5° | 3480.5 | 3467.4 | 3621.6 | 3814.9 | 3835.8 | 3574.5 | 3161.7 | 2897.8 | 2874.3 | 2939.6 | 3085.9 |
| 45° | 3692.1 | 3702.6 | 3885.5 | 4115.4 | 4191.2 | 4024.0 | 3561.5 | 3227.0 | 3213.9 | 3193.0 | 3328.9 |
| 47.5° | 3880.2 | 3937.7 | 4094.5 | 4366.3 | 4640.6 | 4489.1 | 4031.8 | 3707.8 | 3616.3 | 3569.3 | 3705.2 |
| 50° | 4010.9 | 4063.1 | 4253.9 | 4543.9 | 5045.6 | 5142.3 | 4559.6 | 4219.9 | 4222.5 | 4107.6 | 4180.7 |
| 52.5° | 4010.9 | 4008.3 | 4162.4 | 4543.9 | 5327.8 | 5824.3 | 5265.1 | 4865.3 | 4886.2 | 4766.0 | 4771.3 |
| 55° | 3624.2 | 3616.3 | 3804.5 | 4209.5 | 5296.5 | 6480.1 | 6333.8 | 5683.2 | 5630.9 | 5398.4 | 5421.9 |
| 57.5° | 2918.7 | 2937.0 | 3080.7 | 3566.7 | 4888.8 | 6785.9 | 7606.3 | 6602.9 | 6425.3 | 5944.5 | 5944.5 |
| 60° | 2129.6 | 2113.9 | 2221.0 | 2560.7 | 3916.8 | 6670.9 | 8651.5 | 7687.3 | 7407.7 | 6396.5 | 6328.6 |
| 62.5° | 1620.0 | 1617.4 | 1646.2 | 1761.1 | 2484.9 | 5816.4 | 9100.9 | 9067.0 | 8612.3 | 6840.7 | 6744.0 |
| 65° | 1309.1 | 1314.3 | 1353.5 | 1434.5 | 1518.1 | 3966.5 | 8863.2 | 10713.1 | 10297.7 | 7501.8 | 7185.6 |
| 67.5° | 1068.7 | 1081.8 | 1128.8 | 1303.9 | 1285.6 | 2053.8 | 7548.8 | 11656.4 | 11734.8 | 8510.4 | 7778.8 |
| 70° | 823.1 | 844.0 | 898.9 | 1147.1 | 1238.5 | 1366.6 | 5233.8 | 11186.1 | 11395.1 | 9137.5 | 7420.8 |
| 72.5° | 559.2 | 556.6 | 674.1 | 930.2 | 1251.6 | 1251.6 | 2913.4 | 9009.5 | 9208.1 | 8424.2 | 6446.2 |
| 75° | 303.1 | 321.4 | 446.8 | 702.9 | 1147.1 | 1209.8 | 1659.2 | 6592.5 | 6872.1 | 6550.7 | 4985.5 |
| 77.5° | 164.6 | 167.2 | 248.2 | 459.9 | 953.7 | 1154.9 | 1107.9 | 4483.8 | 4593.6 | 3950.8 | 2730.5 |
| 80° | 86.2 | 88.8 | 130.6 | 300.5 | 658.5 | 1071.3 | 922.4 | 2673.1 | 2568.5 | 1515.5 | 901.5 |
| 82.5° | 39.2 | 41.8 | 65.3 | 188.1 | 420.7 | 844.0 | 797.0 | 1290.8 | 1191.5 | 423.3 | 274.4 |
| 85° | 15.7 | 15.7 | 28.7 | 112.4 | 245.6 | 415.5 | 682.0 | 648.0 | 540.9 | 128.0 | 135.9 |
| 87.5° | 5.2 | 5.2 | 7.8 | 44.4 | 99.3 | 248.2 | 363.2 | 342.3 | 235.2 | 47.0 | 73.2 |
| 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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 CATALOG NUMBER: CCP-SA-2E-735-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2660.0 | 2660.0 | 2660.0 | 2660.0 | 2660.0 | 2660.0 | 2660.0 | 2660.0 | 2660.0 | 2660.0 | 2660.0 |
| 2.5° | 2639.1 | 2667.8 | 2660.0 | 2654.8 | 2605.1 | 2599.9 | 2594.7 | 2547.6 | 2563.3 | 2524.1 | 2550.2 |
| 5° | 2654.8 | 2670.4 | 2628.6 | 2550.2 | 2479.7 | 2401.3 | 2341.2 | 2299.4 | 2223.6 | 2194.9 | 2189.7 |
| 7.5° | 2639.1 | 2639.1 | 2552.9 | 2427.4 | 2289.0 | 2160.9 | 1998.9 | 1883.9 | 1797.7 | 1732.4 | 1755.9 |
| 10° | 2618.2 | 2586.8 | 2498.0 | 2275.9 | 2025.0 | 1831.7 | 1599.1 | 1429.3 | 1301.3 | 1259.4 | 1233.3 |
| 12.5° | 2618.2 | 2563.3 | 2364.7 | 2061.6 | 1737.6 | 1445.0 | 1168.0 | 945.9 | 823.1 | 749.9 | 739.5 |
| 15° | 2594.7 | 2513.7 | 2268.0 | 1860.4 | 1458.0 | 1060.9 | 744.7 | 553.9 | 449.4 | 420.7 | 410.2 |
| 17.5° | 2599.9 | 2503.2 | 2124.3 | 1622.6 | 1131.4 | 705.5 | 454.7 | 350.1 | 324.0 | 310.9 | 313.6 |
| 20° | 2610.3 | 2503.2 | 1996.3 | 1390.1 | 815.2 | 439.0 | 313.6 | 295.3 | 282.2 | 277.0 | 279.6 |
| 22.5° | 2644.3 | 2453.6 | 1865.7 | 1152.3 | 551.3 | 316.2 | 277.0 | 258.7 | 248.2 | 240.4 | 237.8 |
| 25° | 2649.5 | 2445.7 | 1740.2 | 917.1 | 378.9 | 266.5 | 243.0 | 222.1 | 209.0 | 198.6 | 196.0 |
| 27.5° | 2641.7 | 2411.8 | 1565.2 | 682.0 | 284.8 | 237.8 | 206.4 | 185.5 | 167.2 | 159.4 | 156.8 |
| 30° | 2670.4 | 2349.0 | 1416.2 | 491.2 | 240.4 | 206.4 | 175.1 | 151.6 | 135.9 | 125.4 | 125.4 |
| 32.5° | 2673.1 | 2294.2 | 1251.6 | 350.1 | 219.5 | 182.9 | 148.9 | 122.8 | 107.1 | 101.9 | 101.9 |
| 35° | 2675.7 | 2244.5 | 1068.7 | 266.5 | 196.0 | 156.8 | 122.8 | 101.9 | 91.5 | 83.6 | 83.6 |
| 37.5° | 2683.5 | 2207.9 | 901.5 | 224.7 | 175.1 | 133.3 | 101.9 | 83.6 | 73.2 | 70.5 | 70.5 |
| 40° | 2699.2 | 2158.3 | 726.4 | 198.6 | 151.6 | 112.4 | 86.2 | 70.5 | 60.1 | 57.5 | 54.9 |
| 42.5° | 2741.0 | 2145.2 | 580.1 | 177.7 | 135.9 | 94.1 | 70.5 | 57.5 | 49.6 | 44.4 | 41.8 |
| 45° | 2913.4 | 2179.2 | 449.4 | 164.6 | 115.0 | 78.4 | 60.1 | 47.0 | 36.6 | 34.0 | 31.4 |
| 47.5° | 3195.6 | 2291.6 | 355.4 | 146.3 | 96.7 | 65.3 | 49.6 | 36.6 | 28.7 | 26.1 | 23.5 |
| 50° | 3624.2 | 2547.6 | 290.0 | 130.6 | 81.0 | 54.9 | 39.2 | 28.7 | 20.9 | 18.3 | 18.3 |
| 52.5° | 4186.0 | 2892.5 | 250.8 | 115.0 | 65.3 | 47.0 | 31.4 | 20.9 | 15.7 | 13.1 | 13.1 |
| 55° | 4760.8 | 3300.2 | 235.2 | 99.3 | 54.9 | 39.2 | 23.5 | 15.7 | 10.5 | 7.8 | 7.8 |
| 57.5° | 5288.6 | 3564.1 | 227.3 | 81.0 | 47.0 | 28.7 | 18.3 | 10.5 | 5.2 | 2.6 | 2.6 |
| 60° | 5617.9 | 3757.4 | 203.8 | 65.3 | 36.6 | 23.5 | 13.1 | 5.2 | 2.6 | 0.0 | 0.0 |
| 62.5° | 6051.6 | 3953.4 | 167.2 | 49.6 | 26.1 | 15.7 | 7.8 | 2.6 | 0.0 | 0.0 | 0.0 |
| 65° | 6623.8 | 4172.9 | 130.6 | 39.2 | 20.9 | 10.5 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 |
| 67.5° | 6898.2 | 4057.9 | 88.8 | 28.7 | 13.1 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 6349.5 | 3417.7 | 62.7 | 20.9 | 7.8 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 5338.3 | 2678.3 | 47.0 | 13.1 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 3935.1 | 1674.9 | 36.6 | 10.5 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2087.8 | 624.5 | 26.1 | 7.8 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 616.7 | 182.9 | 18.3 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 203.8 | 54.9 | 10.5 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 104.5 | 20.9 | 5.2 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 60.1 | 7.8 | 5.2 | 5.2 | 2.6 | 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 |

(END OF REPORT)