

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: P676300

Luminaire Tested: **CCW-SA-1E-760-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676300
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-760-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

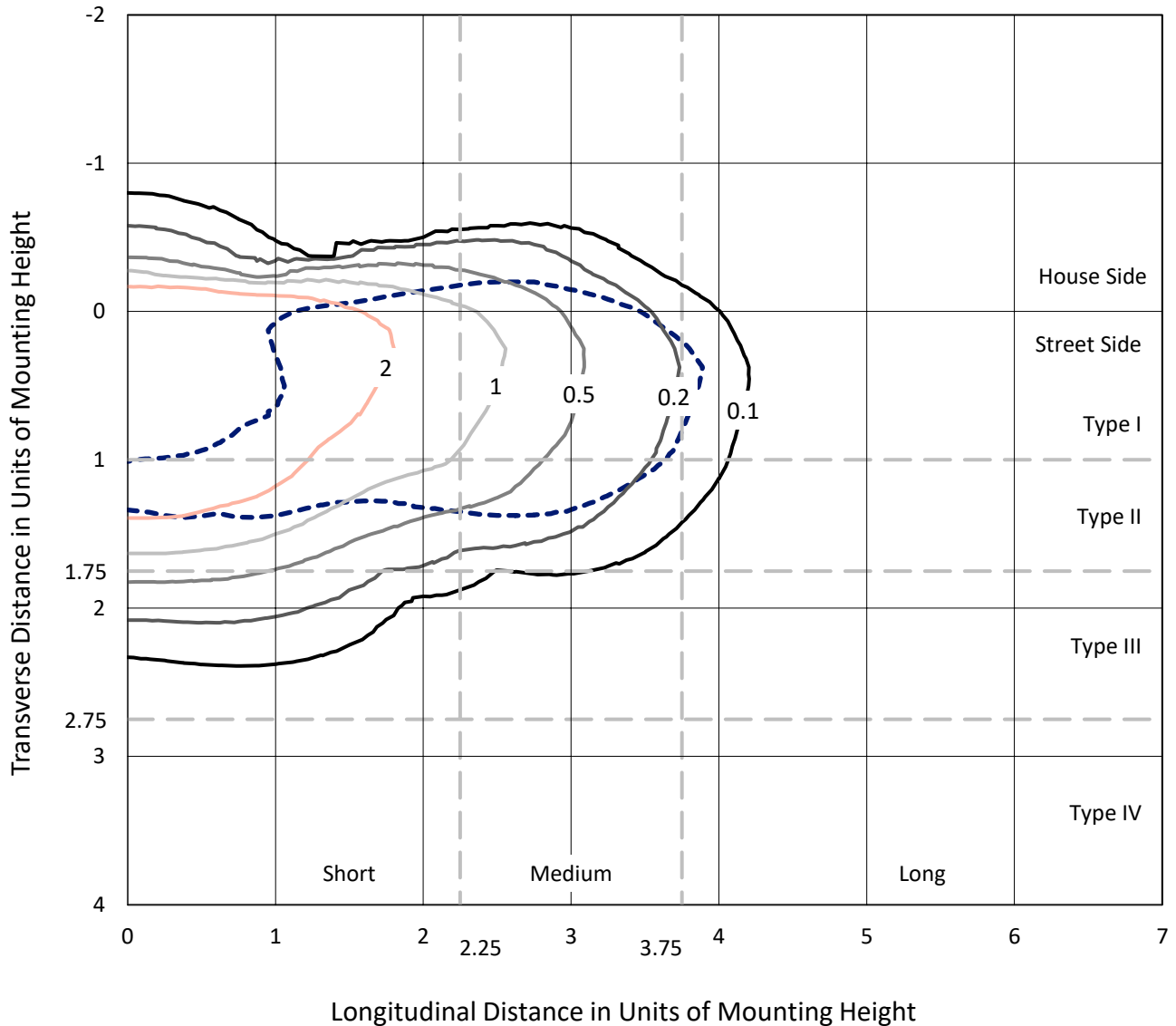
Lumens per Lamp: N/A
Luminaire Lumens: 5399.3 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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

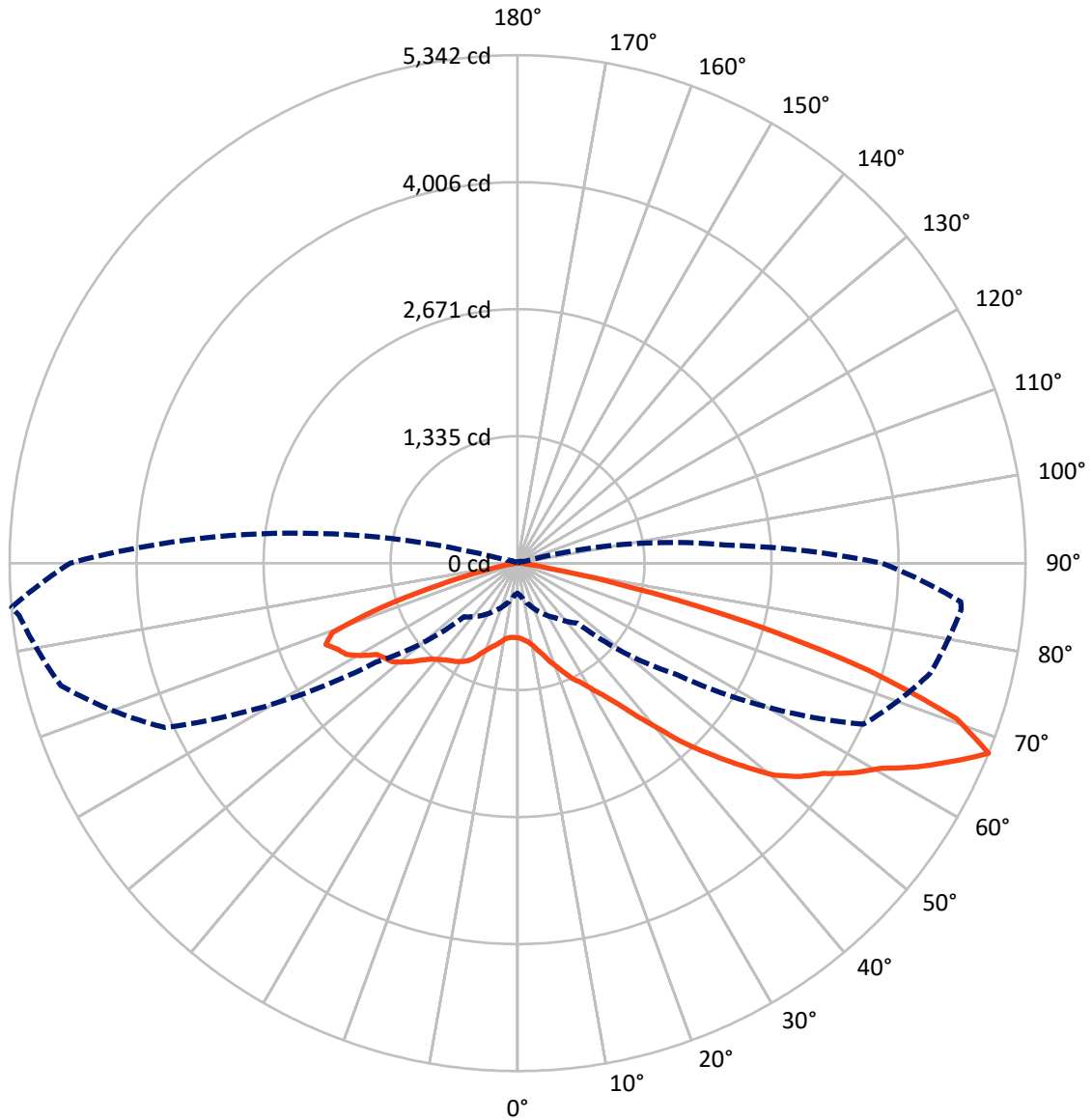
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 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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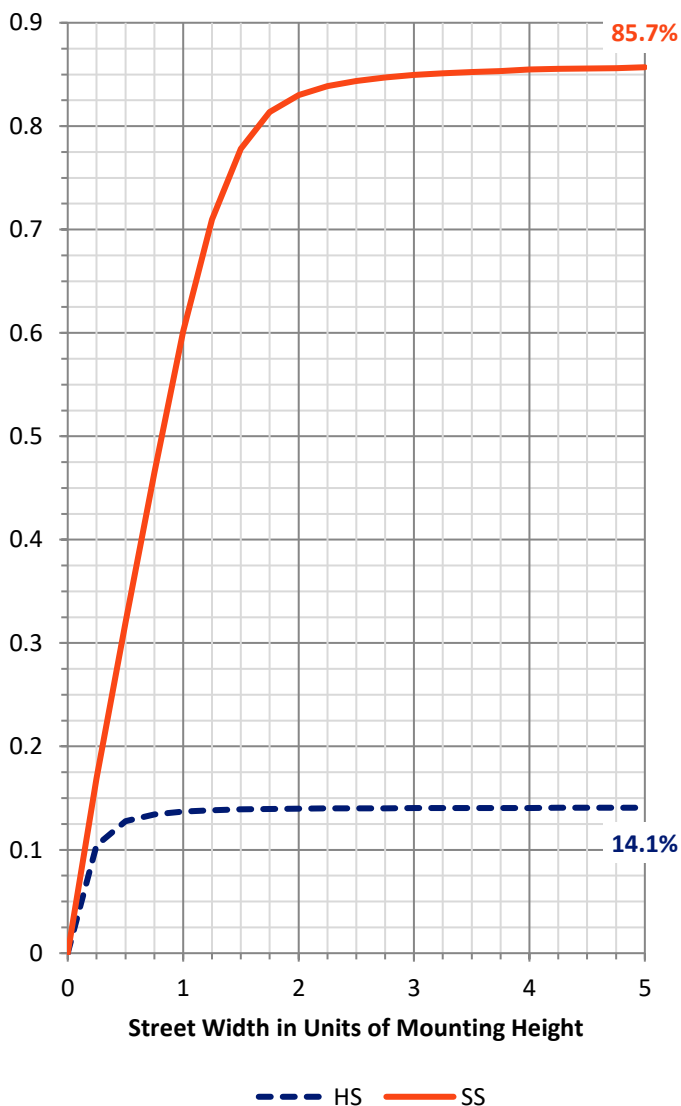
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 767.1 | 0.0 | 767.1 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 4632.3 | 0.0 | 4632.3 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 5399.3 | 0.0 | 5399.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.6 | 1.3 |
| 10°-20° | 192.5 | 3.6 |
| 20°-30° | 319.7 | 5.9 |
| 30°-40° | 550.1 | 10.2 |
| 40°-50° | 988.5 | 18.3 |
| 50°-60° | 1407.2 | 26.1 |
| 60°-70° | 1282.9 | 23.8 |
| 70°-80° | 546.3 | 10.1 |
| 80°-90° | 40.7 | 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° | 5399.3 | 100.0 |
| 0°-180° | 5399.3 | 100.0 |



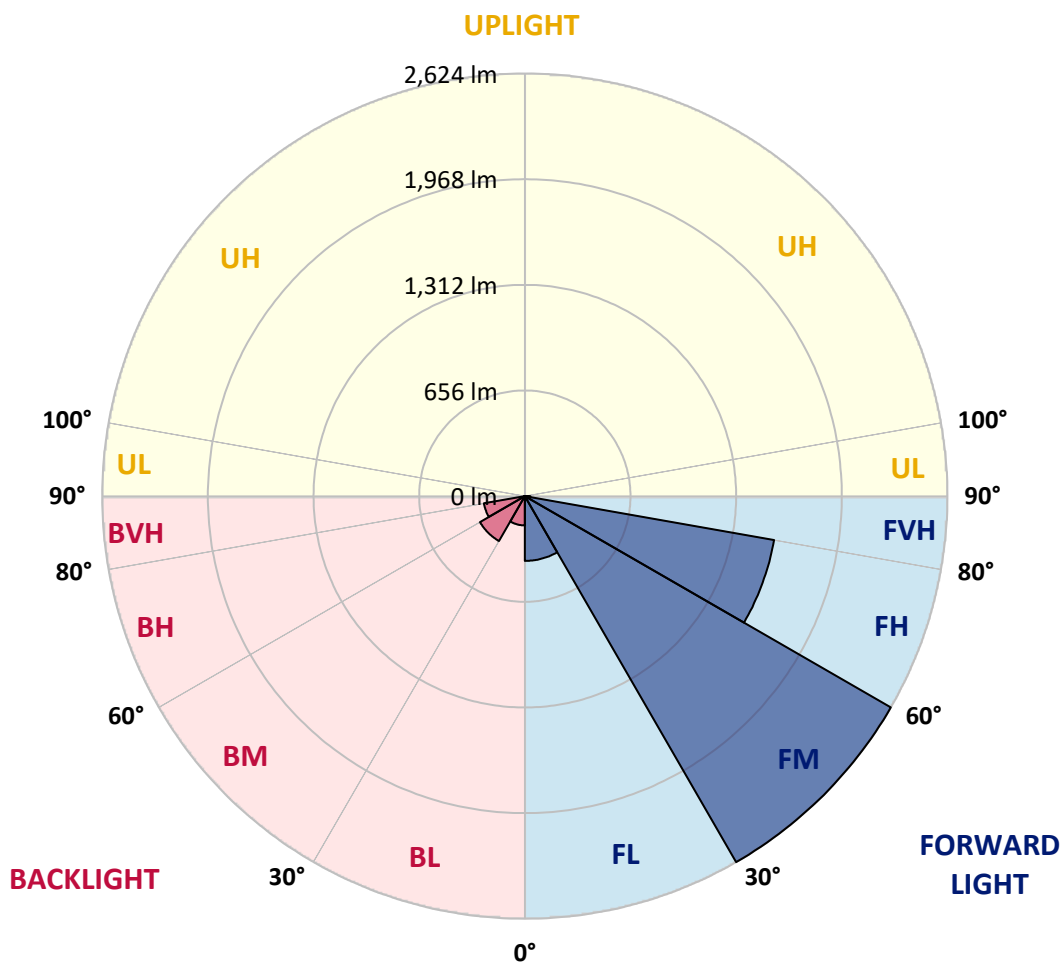
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 402.2 | 7.4 | | | |
| FM (30°-60°) | 2624.1 | 48.6 | | | |
| FH (60°-80°) | 1571.4 | 29.1 | | | G1/1800 |
| FVH (80°-90°) | 34.5 | 0.6 | | | G1/100 |
| BL (0°-30°) | 181.6 | 3.4 | B1/500 | | |
| BM (30°-60°) | 321.6 | 6.0 | B1/1000 | | |
| BH (60°-80°) | 257.7 | 4.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.1 | 0.1 | | | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 84° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 |
| 2.5° | 813.5 | 821.2 | 821.2 | 818.6 | 810.9 | 805.7 | 803.2 | 798.0 | 792.9 | 792.9 | 795.4 |
| 5° | 821.2 | 813.5 | 823.8 | 810.9 | 810.9 | 810.9 | 821.2 | 816.0 | 813.5 | 800.6 | 800.6 |
| 7.5° | 821.2 | 813.5 | 813.5 | 821.2 | 813.5 | 818.6 | 831.5 | 826.3 | 836.6 | 813.5 | 818.6 |
| 10° | 798.0 | 795.4 | 800.6 | 810.9 | 813.5 | 823.8 | 836.6 | 862.4 | 864.9 | 849.5 | 846.9 |
| 12.5° | 751.7 | 749.1 | 767.1 | 772.3 | 803.2 | 828.9 | 867.5 | 888.1 | 911.3 | 903.6 | 888.1 |
| 15° | 718.2 | 723.4 | 736.2 | 756.8 | 785.1 | 831.5 | 875.2 | 921.6 | 962.8 | 952.5 | 947.3 |
| 17.5° | 731.1 | 728.5 | 731.1 | 744.0 | 780.0 | 826.3 | 901.0 | 955.0 | 1014.2 | 1014.2 | 1019.4 |
| 20° | 769.7 | 777.4 | 774.8 | 767.1 | 785.1 | 823.8 | 901.0 | 996.2 | 1094.0 | 1086.3 | 1086.3 |
| 22.5° | 836.6 | 839.2 | 823.8 | 818.6 | 816.0 | 839.2 | 916.4 | 1047.7 | 1161.0 | 1176.4 | 1171.3 |
| 25° | 906.1 | 908.7 | 903.6 | 888.1 | 867.5 | 872.7 | 944.7 | 1088.9 | 1253.7 | 1279.4 | 1274.2 |
| 27.5° | 1022.0 | 1019.4 | 1006.5 | 988.5 | 957.6 | 934.4 | 988.5 | 1119.8 | 1325.7 | 1369.5 | 1356.6 |
| 30° | 1137.8 | 1130.1 | 1112.1 | 1088.9 | 1060.6 | 1016.8 | 1042.6 | 1179.0 | 1415.8 | 1457.0 | 1428.7 |
| 32.5° | 1279.4 | 1263.9 | 1269.1 | 1233.1 | 1173.9 | 1104.3 | 1099.2 | 1233.1 | 1487.9 | 1547.1 | 1523.9 |
| 35° | 1459.6 | 1441.6 | 1415.8 | 1382.4 | 1325.7 | 1233.1 | 1204.7 | 1320.6 | 1608.9 | 1652.7 | 1652.7 |
| 37.5° | 1696.4 | 1714.4 | 1683.5 | 1544.5 | 1482.8 | 1395.2 | 1336.0 | 1410.7 | 1714.4 | 1820.0 | 1794.2 |
| 40° | 1938.4 | 1953.8 | 1897.2 | 1794.2 | 1660.4 | 1552.3 | 1516.2 | 1557.4 | 1874.0 | 2000.2 | 1951.3 |
| 42.5° | 2134.0 | 2154.6 | 2134.0 | 2000.2 | 1894.6 | 1755.6 | 1691.3 | 1729.9 | 2080.0 | 2231.9 | 2167.5 |
| 45° | 2340.0 | 2360.6 | 2337.4 | 2249.9 | 2146.9 | 2067.1 | 1904.9 | 1953.8 | 2296.2 | 2522.7 | 2450.7 |
| 47.5° | 2494.4 | 2520.2 | 2479.0 | 2461.0 | 2378.6 | 2365.7 | 2090.3 | 2144.3 | 2522.7 | 2816.2 | 2726.1 |
| 50° | 2530.5 | 2558.8 | 2594.8 | 2615.4 | 2587.1 | 2618.0 | 2340.0 | 2386.3 | 2759.6 | 3086.5 | 2999.0 |
| 52.5° | 2445.5 | 2473.8 | 2553.6 | 2648.9 | 2780.2 | 2872.8 | 2592.3 | 2630.9 | 3006.7 | 3310.5 | 3264.1 |
| 55° | 2195.8 | 2221.6 | 2383.7 | 2512.5 | 2826.5 | 2978.4 | 2834.2 | 2996.4 | 3184.3 | 3544.7 | 3431.5 |
| 57.5° | 1776.2 | 1807.1 | 2020.8 | 2219.0 | 2672.1 | 2919.2 | 2978.4 | 3300.2 | 3477.8 | 3717.2 | 3585.9 |
| 60° | 1261.4 | 1279.4 | 1464.7 | 1814.8 | 2244.7 | 2623.1 | 2950.1 | 3526.7 | 3709.5 | 3948.9 | 3879.4 |
| 62.5° | 725.9 | 741.4 | 934.4 | 1263.9 | 1693.8 | 2190.7 | 2823.9 | 3740.4 | 3959.2 | 4203.7 | 4165.1 |
| 65° | 481.4 | 486.5 | 617.8 | 798.0 | 1101.8 | 1614.0 | 2504.7 | 3930.9 | 4206.3 | 4407.1 | 4363.3 |
| 67.5° | 316.6 | 344.9 | 447.9 | 571.5 | 705.3 | 893.3 | 2041.4 | 4010.7 | 4489.5 | 4690.3 | 4680.0 |
| 70° | 226.5 | 236.8 | 321.8 | 440.2 | 530.3 | 502.0 | 1194.4 | 3446.9 | 4476.6 | 4767.5 | 4682.5 |
| 72.5° | 133.9 | 144.2 | 213.7 | 329.5 | 417.0 | 319.2 | 558.6 | 2437.8 | 3709.5 | 3804.7 | 3781.5 |
| 75° | 97.8 | 97.8 | 131.3 | 236.8 | 303.8 | 229.1 | 262.6 | 1542.0 | 2463.5 | 2674.6 | 2672.1 |
| 77.5° | 69.5 | 72.1 | 90.1 | 141.6 | 234.3 | 167.3 | 144.2 | 857.2 | 1346.3 | 1472.5 | 1403.0 |
| 80° | 41.2 | 43.8 | 61.8 | 84.9 | 169.9 | 121.0 | 95.2 | 391.3 | 517.4 | 522.6 | 496.8 |
| 82.5° | 30.9 | 30.9 | 41.2 | 59.2 | 118.4 | 82.4 | 59.2 | 149.3 | 167.3 | 151.9 | 128.7 |
| 85° | 18.0 | 15.4 | 30.9 | 43.8 | 69.5 | 46.3 | 41.2 | 69.5 | 77.2 | 56.6 | 51.5 |
| 87.5° | 5.1 | 5.1 | 12.9 | 15.4 | 30.9 | 25.7 | 18.0 | 25.7 | 36.0 | 20.6 | 15.4 |
| 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° | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 |
| 2.5° | 790.3 | 782.6 | 769.7 | 764.5 | 746.5 | 738.8 | 733.7 | 720.8 | 723.4 | 715.6 | 715.6 |
| 5° | 782.6 | 782.6 | 756.8 | 728.5 | 700.2 | 682.2 | 661.6 | 635.8 | 635.8 | 625.5 | 628.1 |
| 7.5° | 810.9 | 790.3 | 756.8 | 705.3 | 659.0 | 617.8 | 599.8 | 574.1 | 558.6 | 550.9 | 550.9 |
| 10° | 828.9 | 808.3 | 751.7 | 689.9 | 630.7 | 579.2 | 540.6 | 504.5 | 484.0 | 484.0 | 481.4 |
| 12.5° | 877.8 | 846.9 | 772.3 | 687.3 | 599.8 | 522.6 | 463.4 | 422.2 | 393.9 | 373.3 | 378.4 |
| 15° | 919.0 | 885.5 | 782.6 | 666.7 | 545.7 | 437.6 | 365.5 | 288.3 | 249.7 | 229.1 | 221.4 |
| 17.5° | 983.4 | 921.6 | 805.7 | 630.7 | 463.4 | 342.4 | 236.8 | 172.5 | 157.0 | 154.5 | 154.5 |
| 20° | 1037.4 | 965.3 | 808.3 | 561.2 | 381.0 | 218.8 | 151.9 | 141.6 | 133.9 | 131.3 | 128.7 |
| 22.5° | 1112.1 | 1022.0 | 798.0 | 481.4 | 272.9 | 146.7 | 128.7 | 118.4 | 113.3 | 105.5 | 105.5 |
| 25° | 1189.3 | 1096.6 | 777.4 | 406.7 | 167.3 | 126.1 | 113.3 | 103.0 | 92.7 | 87.5 | 90.1 |
| 27.5° | 1271.7 | 1153.3 | 718.2 | 316.6 | 128.7 | 110.7 | 92.7 | 84.9 | 79.8 | 77.2 | 77.2 |
| 30° | 1338.6 | 1189.3 | 630.7 | 211.1 | 115.8 | 97.8 | 82.4 | 74.7 | 69.5 | 66.9 | 66.9 |
| 32.5° | 1387.5 | 1220.2 | 532.9 | 141.6 | 105.5 | 87.5 | 74.7 | 66.9 | 61.8 | 59.2 | 59.2 |
| 35° | 1469.9 | 1243.4 | 442.8 | 121.0 | 95.2 | 77.2 | 64.4 | 59.2 | 54.1 | 54.1 | 54.1 |
| 37.5° | 1596.0 | 1274.2 | 352.7 | 110.7 | 87.5 | 69.5 | 61.8 | 54.1 | 51.5 | 48.9 | 48.9 |
| 40° | 1706.7 | 1312.9 | 252.3 | 100.4 | 79.8 | 64.4 | 54.1 | 48.9 | 46.3 | 43.8 | 43.8 |
| 42.5° | 1866.3 | 1356.6 | 164.8 | 90.1 | 72.1 | 59.2 | 48.9 | 43.8 | 41.2 | 38.6 | 38.6 |
| 45° | 2069.7 | 1428.7 | 128.7 | 79.8 | 64.4 | 54.1 | 46.3 | 41.2 | 36.0 | 36.0 | 33.5 |
| 47.5° | 2285.9 | 1516.2 | 115.8 | 74.7 | 59.2 | 48.9 | 41.2 | 36.0 | 33.5 | 30.9 | 30.9 |
| 50° | 2486.7 | 1601.2 | 108.1 | 69.5 | 54.1 | 46.3 | 38.6 | 33.5 | 28.3 | 25.7 | 25.7 |
| 52.5° | 2666.9 | 1681.0 | 103.0 | 64.4 | 51.5 | 41.2 | 33.5 | 28.3 | 25.7 | 23.2 | 23.2 |
| 55° | 2762.2 | 1717.0 | 100.4 | 61.8 | 46.3 | 38.6 | 30.9 | 25.7 | 23.2 | 20.6 | 20.6 |
| 57.5° | 2911.5 | 1763.3 | 97.8 | 59.2 | 43.8 | 33.5 | 28.3 | 23.2 | 20.6 | 18.0 | 18.0 |
| 60° | 3153.4 | 1915.2 | 95.2 | 56.6 | 41.2 | 33.5 | 25.7 | 20.6 | 15.4 | 12.9 | 12.9 |
| 62.5° | 3354.2 | 2041.4 | 84.9 | 48.9 | 36.0 | 28.3 | 20.6 | 15.4 | 10.3 | 7.7 | 7.7 |
| 65° | 3583.3 | 2100.6 | 74.7 | 43.8 | 30.9 | 23.2 | 15.4 | 10.3 | 7.7 | 2.6 | 2.6 |
| 67.5° | 3833.0 | 2190.7 | 61.8 | 38.6 | 28.3 | 18.0 | 12.9 | 7.7 | 2.6 | 0.0 | 0.0 |
| 70° | 3701.7 | 2077.4 | 51.5 | 33.5 | 25.7 | 15.4 | 10.3 | 5.1 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2901.2 | 1487.9 | 41.2 | 30.9 | 23.2 | 15.4 | 10.3 | 2.6 | 0.0 | 0.0 | 0.0 |
| 75° | 1938.4 | 841.8 | 36.0 | 25.7 | 18.0 | 12.9 | 7.7 | 2.6 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1052.9 | 378.4 | 30.9 | 23.2 | 15.4 | 10.3 | 7.7 | 2.6 | 0.0 | 0.0 | 0.0 |
| 80° | 342.4 | 149.3 | 25.7 | 20.6 | 15.4 | 10.3 | 7.7 | 2.6 | 0.0 | 0.0 | 0.0 |
| 82.5° | 92.7 | 46.3 | 25.7 | 20.6 | 15.4 | 10.3 | 7.7 | 2.6 | 0.0 | 0.0 | 0.0 |
| 85° | 38.6 | 30.9 | 25.7 | 20.6 | 15.4 | 10.3 | 7.7 | 2.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 15.4 | 10.3 | 10.3 | 12.9 | 10.3 | 7.7 | 5.1 | 2.6 | 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 |



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 CATALOG NUMBER: CCW-SA-1E-760-U-T2-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 |
| 2.5° | 718.2 | 723.4 | 725.9 | 725.9 | 738.8 | 751.7 | 767.1 | 780.0 | 780.0 | 787.7 | 795.4 |
| 5° | 630.7 | 635.8 | 643.6 | 666.7 | 692.5 | 720.8 | 749.1 | 769.7 | 798.0 | 810.9 | 818.6 |
| 7.5° | 558.6 | 563.8 | 584.4 | 607.5 | 643.6 | 692.5 | 741.4 | 787.7 | 816.0 | 828.9 | 839.2 |
| 10° | 484.0 | 491.7 | 514.8 | 556.0 | 602.4 | 661.6 | 718.2 | 798.0 | 844.3 | 870.1 | 880.4 |
| 12.5° | 375.8 | 396.4 | 427.3 | 471.1 | 530.3 | 620.4 | 725.9 | 808.3 | 888.1 | 919.0 | 939.6 |
| 15° | 236.8 | 254.8 | 303.8 | 373.3 | 453.1 | 558.6 | 705.3 | 823.8 | 934.4 | 965.3 | 998.8 |
| 17.5° | 151.9 | 154.5 | 169.9 | 244.6 | 347.5 | 481.4 | 674.4 | 846.9 | 985.9 | 1029.7 | 1081.2 |
| 20° | 128.7 | 133.9 | 136.4 | 146.7 | 231.7 | 396.4 | 610.1 | 875.2 | 1047.7 | 1106.9 | 1155.8 |
| 22.5° | 108.1 | 110.7 | 115.8 | 123.6 | 139.0 | 288.3 | 522.6 | 875.2 | 1101.8 | 1189.3 | 1245.9 |
| 25° | 87.5 | 92.7 | 97.8 | 105.5 | 121.0 | 180.2 | 432.5 | 859.8 | 1166.1 | 1274.2 | 1346.3 |
| 27.5° | 77.2 | 77.2 | 82.4 | 90.1 | 103.0 | 126.1 | 342.4 | 813.5 | 1215.0 | 1325.7 | 1421.0 |
| 30° | 66.9 | 69.5 | 72.1 | 79.8 | 92.7 | 110.7 | 236.8 | 738.8 | 1266.5 | 1426.1 | 1534.2 |
| 32.5° | 59.2 | 59.2 | 64.4 | 69.5 | 82.4 | 100.4 | 151.9 | 625.5 | 1333.5 | 1503.4 | 1655.2 |
| 35° | 54.1 | 54.1 | 56.6 | 61.8 | 74.7 | 90.1 | 118.4 | 530.3 | 1413.3 | 1650.1 | 1817.4 |
| 37.5° | 48.9 | 48.9 | 51.5 | 56.6 | 66.9 | 79.8 | 108.1 | 455.6 | 1495.6 | 1796.8 | 2041.4 |
| 40° | 43.8 | 43.8 | 46.3 | 51.5 | 59.2 | 72.1 | 97.8 | 368.1 | 1598.6 | 2013.1 | 2285.9 |
| 42.5° | 38.6 | 38.6 | 41.2 | 46.3 | 54.1 | 64.4 | 84.9 | 275.4 | 1735.0 | 2247.3 | 2602.5 |
| 45° | 33.5 | 33.5 | 36.0 | 41.2 | 46.3 | 59.2 | 77.2 | 211.1 | 1884.3 | 2507.3 | 2880.6 |
| 47.5° | 28.3 | 30.9 | 33.5 | 38.6 | 43.8 | 54.1 | 69.5 | 185.3 | 2031.1 | 2782.7 | 3189.5 |
| 50° | 25.7 | 25.7 | 28.3 | 33.5 | 41.2 | 48.9 | 64.4 | 182.8 | 2180.4 | 2993.8 | 3506.1 |
| 52.5° | 23.2 | 23.2 | 25.7 | 30.9 | 38.6 | 46.3 | 61.8 | 187.9 | 2303.9 | 3189.5 | 3727.5 |
| 55° | 20.6 | 20.6 | 23.2 | 25.7 | 33.5 | 43.8 | 56.6 | 193.1 | 2391.5 | 3387.7 | 3905.1 |
| 57.5° | 18.0 | 18.0 | 20.6 | 25.7 | 30.9 | 38.6 | 51.5 | 198.2 | 2533.0 | 3583.3 | 4162.5 |
| 60° | 12.9 | 12.9 | 18.0 | 23.2 | 28.3 | 33.5 | 48.9 | 203.4 | 2759.6 | 3853.6 | 4381.3 |
| 62.5° | 7.7 | 7.7 | 10.3 | 18.0 | 23.2 | 30.9 | 43.8 | 193.1 | 2970.7 | 4201.1 | 4716.0 |
| 65° | 2.6 | 5.1 | 7.7 | 10.3 | 18.0 | 25.7 | 36.0 | 175.0 | 3148.3 | 4548.7 | 5024.9 |
| 67.5° | 0.0 | 0.0 | 2.6 | 7.7 | 15.4 | 20.6 | 30.9 | 128.7 | 3176.6 | 4705.7 | 5341.5 |
| 70° | 0.0 | 0.0 | 2.6 | 7.7 | 12.9 | 20.6 | 28.3 | 72.1 | 2705.5 | 4203.7 | 4896.2 |
| 72.5° | 0.0 | 0.0 | 0.0 | 5.1 | 12.9 | 18.0 | 25.7 | 54.1 | 1995.0 | 3168.9 | 3869.1 |
| 75° | 0.0 | 0.0 | 0.0 | 2.6 | 10.3 | 15.4 | 23.2 | 41.2 | 1212.5 | 2113.4 | 2525.3 |
| 77.5° | 0.0 | 0.0 | 0.0 | 2.6 | 7.7 | 15.4 | 23.2 | 36.0 | 427.3 | 1006.5 | 1186.7 |
| 80° | 0.0 | 0.0 | 0.0 | 5.1 | 10.3 | 15.4 | 20.6 | 30.9 | 103.0 | 252.3 | 339.8 |
| 82.5° | 0.0 | 0.0 | 0.0 | 2.6 | 7.7 | 12.9 | 18.0 | 25.7 | 41.2 | 74.7 | 118.4 |
| 85° | 0.0 | 0.0 | 0.0 | 2.6 | 5.1 | 12.9 | 18.0 | 23.2 | 28.3 | 36.0 | 51.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 5.1 | 7.7 | 10.3 | 10.3 | 10.3 | 18.0 |
| 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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| 0° | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 | 785.1 |
| 2.5° | 792.9 | 803.2 | 808.3 | 818.6 | 823.8 | 821.2 | 818.6 | 826.3 | 821.2 | 813.5 |
| 5° | 821.2 | 821.2 | 828.9 | 831.5 | 831.5 | 823.8 | 828.9 | 826.3 | 821.2 | 821.2 |
| 7.5° | 852.1 | 864.9 | 864.9 | 849.5 | 846.9 | 841.8 | 841.8 | 821.2 | 813.5 | 821.2 |
| 10° | 883.0 | 893.3 | 895.8 | 877.8 | 854.6 | 844.3 | 831.5 | 805.7 | 792.9 | 798.0 |
| 12.5° | 947.3 | 947.3 | 919.0 | 898.4 | 867.5 | 831.5 | 800.6 | 764.5 | 746.5 | 751.7 |
| 15° | 993.7 | 1004.0 | 965.3 | 919.0 | 864.9 | 798.0 | 764.5 | 736.2 | 725.9 | 718.2 |
| 17.5° | 1083.8 | 1063.2 | 1001.4 | 934.4 | 857.2 | 787.7 | 764.5 | 738.8 | 731.1 | 731.1 |
| 20° | 1161.0 | 1150.7 | 1058.0 | 937.0 | 854.6 | 808.3 | 792.9 | 780.0 | 777.4 | 769.7 |
| 22.5° | 1266.5 | 1220.2 | 1101.8 | 965.3 | 883.0 | 841.8 | 836.6 | 849.5 | 841.8 | 836.6 |
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| 30° | 1554.8 | 1477.6 | 1248.5 | 1122.4 | 1086.3 | 1099.2 | 1137.8 | 1166.1 | 1148.1 | 1137.8 |
| 32.5° | 1699.0 | 1580.6 | 1346.3 | 1225.3 | 1212.5 | 1245.9 | 1289.7 | 1307.7 | 1284.5 | 1279.4 |
| 35° | 1850.9 | 1699.0 | 1446.7 | 1341.2 | 1364.3 | 1410.7 | 1449.3 | 1480.2 | 1444.1 | 1459.6 |
| 37.5° | 2087.7 | 1889.5 | 1616.6 | 1523.9 | 1534.2 | 1552.3 | 1624.3 | 1709.3 | 1727.3 | 1696.4 |
| 40° | 2334.8 | 2095.4 | 1773.6 | 1701.6 | 1724.7 | 1773.6 | 1858.6 | 1938.4 | 1979.6 | 1938.4 |
| 42.5° | 2620.6 | 2293.6 | 2015.6 | 1930.7 | 1953.8 | 2023.3 | 2136.6 | 2201.0 | 2195.8 | 2134.0 |
| 45° | 2973.2 | 2569.1 | 2242.2 | 2136.6 | 2221.6 | 2283.3 | 2396.6 | 2404.3 | 2355.4 | 2340.0 |
| 47.5° | 3243.5 | 2800.8 | 2486.7 | 2419.8 | 2535.6 | 2538.2 | 2563.9 | 2566.5 | 2512.5 | 2494.4 |
| 50° | 3542.1 | 3068.5 | 2759.6 | 2661.8 | 2857.4 | 2767.3 | 2697.8 | 2651.5 | 2569.1 | 2530.5 |
| 52.5° | 3835.6 | 3259.0 | 3011.9 | 2911.5 | 3114.8 | 2875.4 | 2749.3 | 2607.7 | 2486.7 | 2445.5 |
| 55° | 3992.6 | 3573.0 | 3380.0 | 3145.7 | 3171.5 | 2906.3 | 2589.7 | 2412.1 | 2206.1 | 2195.8 |
| 57.5° | 4178.0 | 3784.1 | 3691.5 | 3305.3 | 3076.2 | 2690.1 | 2257.6 | 2023.3 | 1802.0 | 1776.2 |
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| 62.5° | 4641.3 | 4515.2 | 4224.3 | 3027.3 | 2175.2 | 1590.9 | 1181.6 | 929.3 | 736.2 | 725.9 |
| 65° | 5027.5 | 4847.3 | 4332.4 | 2548.5 | 1439.0 | 1019.4 | 785.1 | 602.4 | 486.5 | 481.4 |
| 67.5° | 5269.5 | 4973.4 | 4090.5 | 1817.4 | 798.0 | 674.4 | 550.9 | 437.6 | 337.2 | 316.6 |
| 70° | 4927.1 | 4564.1 | 3235.8 | 1040.0 | 463.4 | 512.3 | 424.7 | 293.5 | 231.7 | 226.5 |
| 72.5° | 3936.0 | 3387.7 | 2177.8 | 489.1 | 288.3 | 401.6 | 308.9 | 198.2 | 139.0 | 133.9 |
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| 77.5° | 1199.6 | 1086.3 | 700.2 | 139.0 | 151.9 | 224.0 | 131.3 | 79.8 | 72.1 | 69.5 |
| 80° | 365.5 | 383.6 | 285.7 | 95.2 | 113.3 | 169.9 | 79.8 | 54.1 | 43.8 | 41.2 |
| 82.5° | 123.6 | 144.2 | 128.7 | 56.6 | 77.2 | 121.0 | 54.1 | 36.0 | 30.9 | 30.9 |
| 85° | 59.2 | 72.1 | 64.4 | 36.0 | 41.2 | 59.2 | 43.8 | 28.3 | 18.0 | 18.0 |
| 87.5° | 23.2 | 33.5 | 23.2 | 15.4 | 23.2 | 30.9 | 18.0 | 12.9 | 5.1 | 5.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)