

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: P675830

Luminaire Tested: **CCW-SA-2E-730-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675830
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-730-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SLL distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

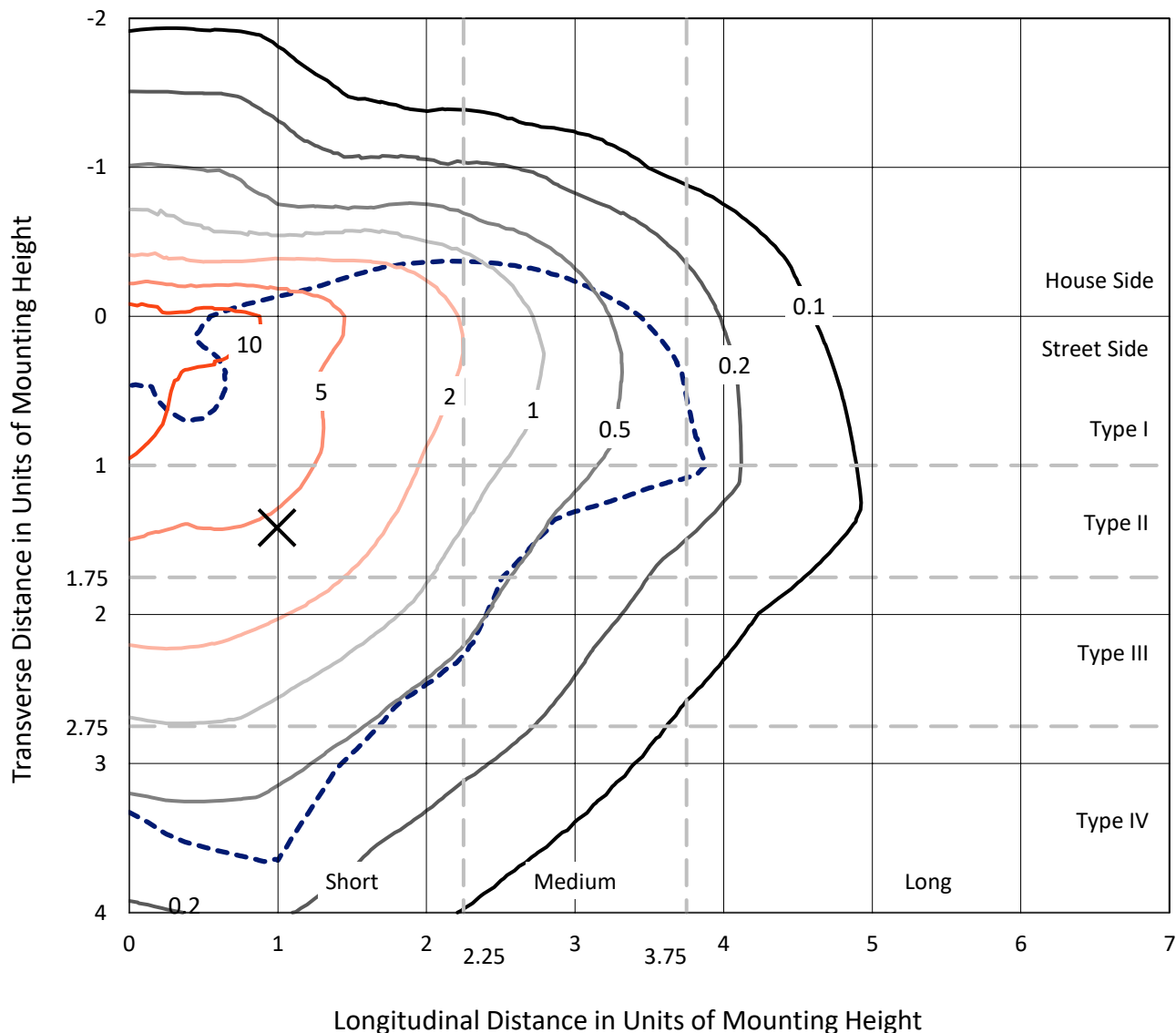
Lumens per Lamp: N/A
Luminaire Lumens: 10330.7 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

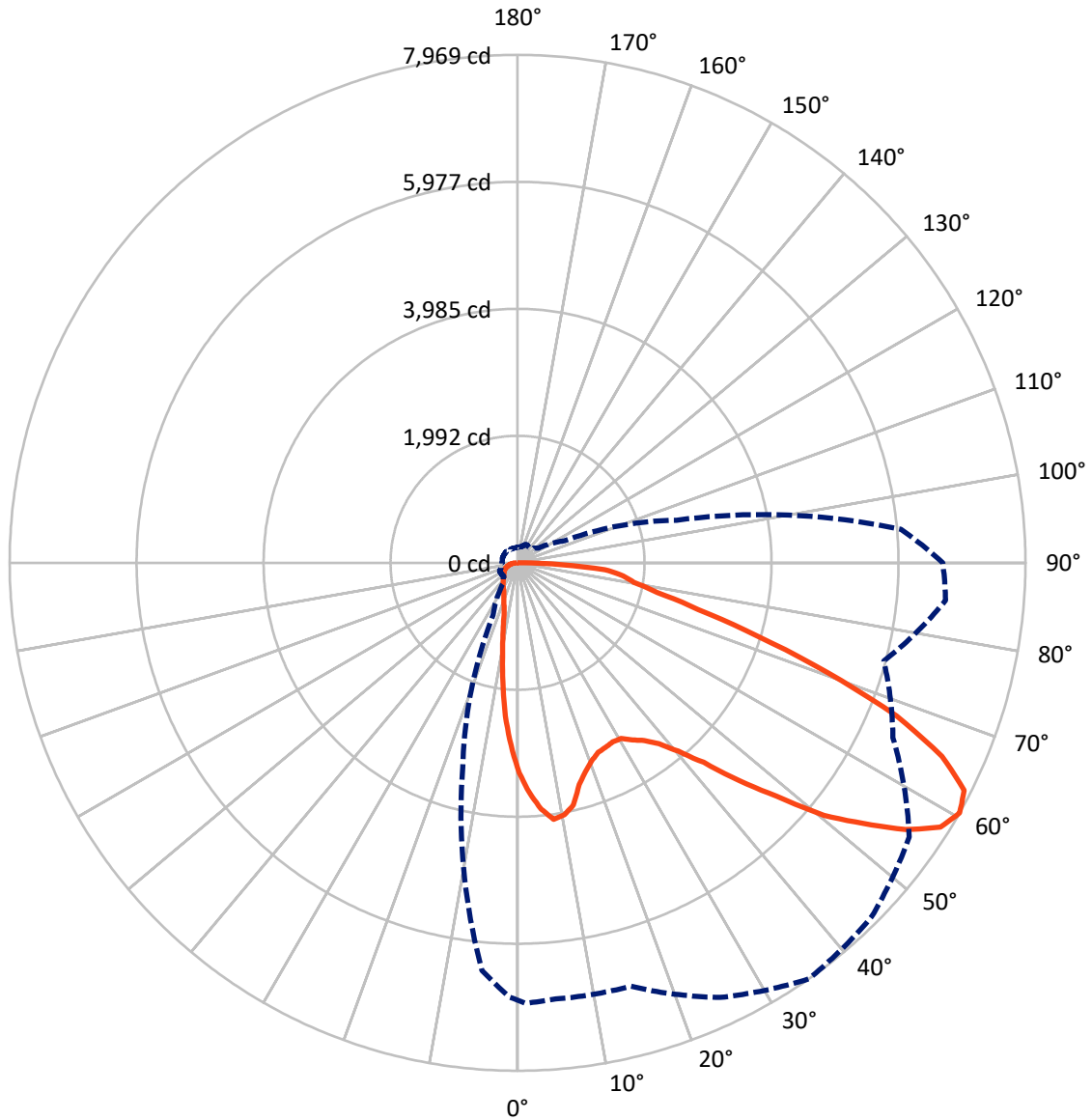
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 16.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1966.1 | 0.0 | 1966.1 |
| | % Fixture | 19.0 | 0.0 | 19.0 |
| Street Side | Lumens | 8364.6 | 0.0 | 8364.6 |
| | % Fixture | 81.0 | 0.0 | 81.0 |
| Total | Lumens | 10330.7 | 0.0 | 10330.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 256.3 | 2.5 |
| 10°-20° | 541.2 | 5.2 |
| 20°-30° | 791.8 | 7.7 |
| 30°-40° | 1115.7 | 10.8 |
| 40°-50° | 1533.2 | 14.8 |
| 50°-60° | 2089.6 | 20.2 |
| 60°-70° | 2287.0 | 22.1 |
| 70°-80° | 1320.4 | 12.8 |
| 80°-90° | 395.4 | 3.8 |
| 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° | 10330.7 | 100.0 |
| 0°-180° | 10330.7 | 100.0 |

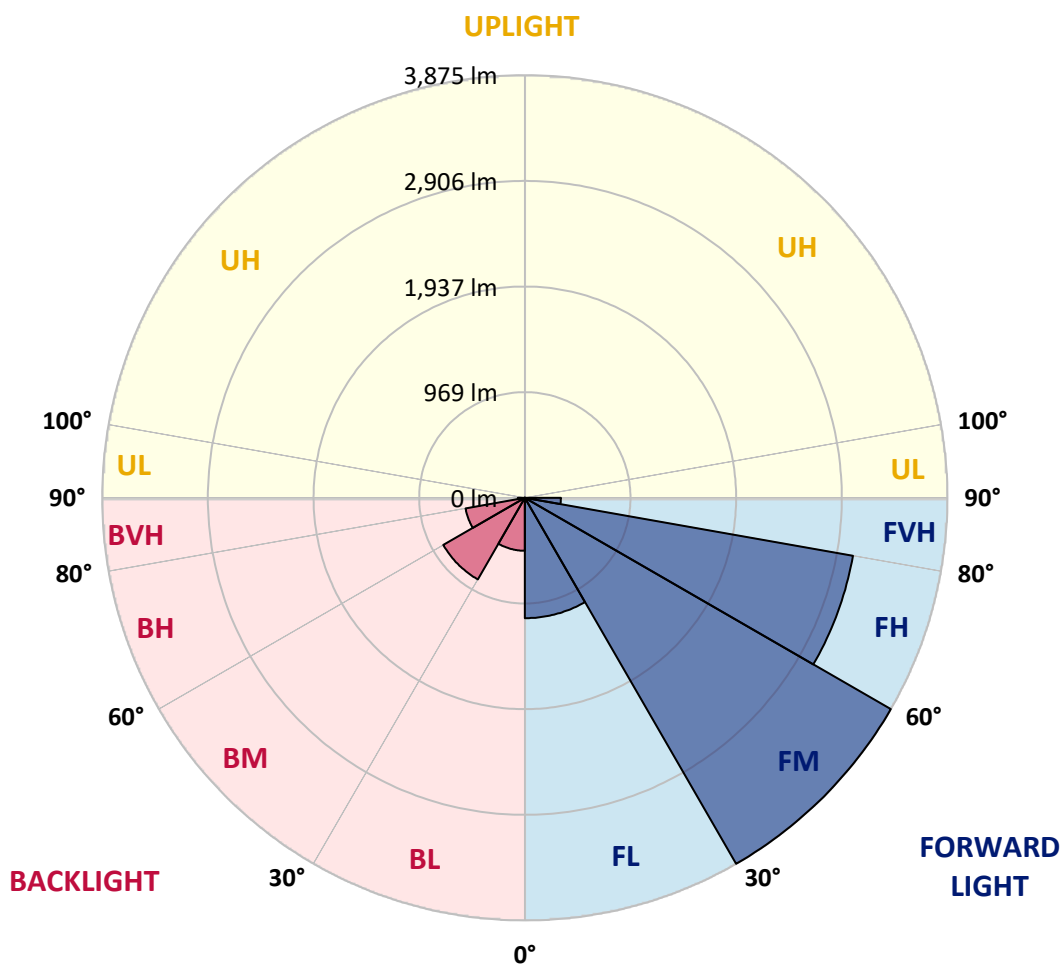


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1103.6 | 10.7 | | | |
| FM (30°-60°) | 3874.9 | 37.5 | | | |
| FH (60°-80°) | 3055.2 | 29.6 | | | G2/5000 |
| FVH (80°-90°) | 331.0 | 3.2 | | | G3/500 |
| BL (0°-30°) | 485.7 | 4.7 | B1/500 | | |
| BM (30°-60°) | 863.7 | 8.4 | B1/1000 | | |
| BH (60°-80°) | 552.2 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 64.4 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 |
| 2.5° | 3533.3 | 3519.5 | 3533.3 | 3583.7 | 3597.4 | 3620.3 | 3620.3 | 3588.3 | 3528.7 | 3501.2 | 3455.4 |
| 5° | 3611.2 | 3588.3 | 3702.8 | 3808.2 | 3890.7 | 3881.6 | 3803.7 | 3739.5 | 3620.3 | 3441.6 | 3272.1 |
| 7.5° | 3455.4 | 3478.3 | 3560.8 | 3835.7 | 4028.2 | 4064.9 | 3941.1 | 3812.8 | 3556.2 | 3308.7 | 3079.6 |
| 10° | 3162.1 | 3194.2 | 3372.9 | 3657.0 | 3959.5 | 4019.0 | 3941.1 | 3785.3 | 3478.3 | 3171.2 | 2905.4 |
| 12.5° | 3020.0 | 3093.3 | 3198.7 | 3542.4 | 3757.8 | 3899.9 | 3863.2 | 3762.4 | 3418.7 | 3056.7 | 2800.0 |
| 15° | 3020.0 | 3038.3 | 3194.2 | 3482.9 | 3606.6 | 3611.2 | 3624.9 | 3643.3 | 3437.0 | 3107.1 | 2763.4 |
| 17.5° | 3116.2 | 3166.7 | 3299.6 | 3478.3 | 3501.2 | 3446.2 | 3446.2 | 3524.1 | 3473.7 | 3249.1 | 2896.3 |
| 20° | 3350.0 | 3331.6 | 3505.8 | 3579.1 | 3455.4 | 3317.9 | 3304.1 | 3437.0 | 3514.9 | 3400.4 | 3139.2 |
| 22.5° | 3583.7 | 3666.2 | 3808.2 | 3643.3 | 3414.1 | 3230.8 | 3212.5 | 3377.5 | 3638.7 | 3661.6 | 3418.7 |
| 25° | 3936.6 | 4019.0 | 4092.4 | 3890.7 | 3409.5 | 3207.9 | 3221.6 | 3350.0 | 3789.9 | 4032.8 | 3886.1 |
| 27.5° | 4316.9 | 4367.3 | 4472.7 | 4161.1 | 3519.5 | 3180.4 | 3194.2 | 3386.6 | 3932.0 | 4275.7 | 4252.8 |
| 30° | 4532.3 | 4587.3 | 4564.4 | 4211.5 | 3592.8 | 3198.7 | 3162.1 | 3437.0 | 3854.1 | 4275.7 | 4491.1 |
| 32.5° | 4743.1 | 4711.0 | 4697.3 | 4294.0 | 3684.5 | 3313.3 | 3221.6 | 3542.4 | 3899.9 | 4344.4 | 4798.1 |
| 35° | 4999.7 | 4953.9 | 4917.3 | 4454.4 | 3835.7 | 3423.3 | 3382.0 | 3679.9 | 4000.7 | 4486.5 | 5045.6 |
| 37.5° | 5283.9 | 5283.9 | 5105.1 | 4573.6 | 4014.5 | 3602.0 | 3556.2 | 3877.0 | 4161.1 | 4573.6 | 5384.7 |
| 40° | 5618.4 | 5632.2 | 5316.0 | 4733.9 | 4216.1 | 3886.1 | 3872.4 | 4133.6 | 4316.9 | 4701.9 | 5710.1 |
| 42.5° | 5865.9 | 5875.0 | 5499.3 | 4793.5 | 4449.8 | 4280.3 | 4339.8 | 4546.1 | 4495.6 | 4816.4 | 5733.0 |
| 45° | 6035.4 | 5989.6 | 5627.6 | 4963.1 | 4706.4 | 4871.4 | 4889.8 | 4949.3 | 4729.4 | 4885.2 | 5824.6 |
| 47.5° | 6117.9 | 6108.8 | 5682.6 | 5160.1 | 5247.2 | 5471.8 | 5577.2 | 5494.7 | 4944.8 | 4811.9 | 5824.6 |
| 50° | 6200.4 | 6122.5 | 5733.0 | 5430.5 | 5774.2 | 6227.9 | 6205.0 | 6053.8 | 5242.6 | 4903.5 | 5737.6 |
| 52.5° | 6255.4 | 6186.7 | 5833.8 | 5673.4 | 6278.3 | 6791.6 | 6883.2 | 6603.7 | 5590.9 | 5073.1 | 5778.8 |
| 55° | 6452.5 | 6397.5 | 6136.3 | 6003.4 | 6860.3 | 7387.3 | 7401.1 | 7011.6 | 5957.5 | 5352.6 | 6049.2 |
| 57.5° | 6690.8 | 6722.8 | 6553.3 | 6470.8 | 7304.8 | 7822.7 | 7772.3 | 7314.0 | 6269.2 | 5691.7 | 6360.8 |
| 60° | 6860.3 | 6910.7 | 6869.5 | 6878.7 | 7524.8 | 7969.3 | 7854.8 | 7501.9 | 6498.3 | 5948.4 | 6741.2 |
| 62.5° | 6768.7 | 6869.5 | 7039.1 | 7002.4 | 7534.0 | 7863.9 | 7703.5 | 7254.4 | 6525.8 | 6282.9 | 7029.9 |
| 65° | 6516.6 | 6525.8 | 6855.7 | 7057.4 | 7121.5 | 7318.6 | 7107.8 | 6736.6 | 6241.7 | 6489.1 | 6988.6 |
| 67.5° | 5870.5 | 5943.8 | 6241.7 | 6635.8 | 6365.4 | 6411.2 | 6392.9 | 5856.7 | 5810.9 | 6347.1 | 6672.4 |
| 70° | 5183.1 | 5233.5 | 5558.8 | 6021.7 | 5375.5 | 5160.1 | 5201.4 | 4802.7 | 4990.6 | 5907.1 | 6035.4 |
| 72.5° | 4284.8 | 4316.9 | 4688.1 | 5096.0 | 4312.3 | 3927.4 | 4023.6 | 3698.3 | 3964.0 | 5169.3 | 5091.4 |
| 75° | 3235.4 | 3295.0 | 3583.7 | 4064.9 | 3175.8 | 2928.4 | 3024.6 | 2891.7 | 3139.2 | 4257.3 | 3950.3 |
| 77.5° | 2300.5 | 2254.7 | 2612.1 | 3180.4 | 2387.6 | 2240.9 | 2250.1 | 2273.0 | 2538.8 | 3588.3 | 2836.7 |
| 80° | 1567.3 | 1581.0 | 1901.8 | 2332.6 | 1874.3 | 1851.4 | 1828.5 | 2011.8 | 2131.0 | 2841.3 | 2062.2 |
| 82.5° | 930.3 | 930.3 | 1283.2 | 1658.9 | 1480.2 | 1668.1 | 1562.7 | 1727.7 | 1668.1 | 2089.7 | 1351.9 |
| 85° | 435.4 | 435.4 | 659.9 | 1196.1 | 1145.7 | 1374.8 | 1168.6 | 1306.1 | 1232.8 | 1457.3 | 609.5 |
| 87.5° | 73.3 | 64.2 | 132.9 | 586.6 | 472.0 | 536.2 | 210.8 | 696.6 | 774.5 | 1017.4 | 151.2 |
| 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° | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 |
| 2.5° | 3405.0 | 3372.9 | 3308.7 | 3226.2 | 3157.5 | 3070.4 | 3042.9 | 2983.3 | 2900.9 | 2891.7 | 2855.0 |
| 5° | 3207.9 | 3097.9 | 2960.4 | 2790.9 | 2676.3 | 2557.2 | 2456.3 | 2396.8 | 2328.0 | 2318.9 | 2300.5 |
| 7.5° | 2992.5 | 2855.0 | 2625.9 | 2424.3 | 2227.2 | 2039.3 | 1947.7 | 1833.1 | 1755.2 | 1695.6 | 1668.1 |
| 10° | 2790.9 | 2662.6 | 2378.4 | 2103.5 | 1929.3 | 1805.6 | 1695.6 | 1576.5 | 1480.2 | 1406.9 | 1379.4 |
| 12.5° | 2658.0 | 2506.7 | 2199.7 | 1938.5 | 1810.2 | 1668.1 | 1544.4 | 1416.1 | 1292.3 | 1196.1 | 1145.7 |
| 15° | 2598.4 | 2456.3 | 2144.7 | 1856.0 | 1668.1 | 1471.1 | 1329.0 | 1200.7 | 1049.4 | 980.7 | 957.8 |
| 17.5° | 2740.5 | 2529.7 | 2126.4 | 1759.8 | 1494.0 | 1269.4 | 1095.3 | 957.8 | 847.8 | 779.1 | 751.6 |
| 20° | 2923.8 | 2662.6 | 2158.5 | 1645.2 | 1329.0 | 1076.9 | 884.5 | 737.8 | 664.5 | 614.1 | 609.5 |
| 22.5° | 3157.5 | 2859.6 | 2208.9 | 1562.7 | 1145.7 | 866.1 | 692.0 | 604.9 | 554.5 | 549.9 | 540.8 |
| 25° | 3574.5 | 3217.1 | 2291.4 | 1452.7 | 999.0 | 714.9 | 591.2 | 540.8 | 517.8 | 504.1 | 513.3 |
| 27.5° | 3932.0 | 3450.8 | 2350.9 | 1384.0 | 939.5 | 673.7 | 572.8 | 517.8 | 494.9 | 490.4 | 494.9 |
| 30° | 4142.8 | 3666.2 | 2332.6 | 1255.7 | 820.3 | 641.6 | 609.5 | 591.2 | 545.3 | 508.7 | 508.7 |
| 32.5° | 4335.2 | 3803.7 | 2328.0 | 1141.1 | 701.2 | 536.2 | 508.7 | 494.9 | 522.4 | 540.8 | 527.0 |
| 35° | 4601.0 | 4019.0 | 2314.3 | 1076.9 | 650.7 | 494.9 | 449.1 | 412.4 | 394.1 | 384.9 | 398.7 |
| 37.5° | 4885.2 | 4165.7 | 2277.6 | 1067.8 | 623.2 | 472.0 | 435.4 | 398.7 | 380.4 | 371.2 | 366.6 |
| 40° | 5196.8 | 4321.5 | 2236.4 | 1021.9 | 609.5 | 458.3 | 421.6 | 389.5 | 366.6 | 352.9 | 348.3 |
| 42.5° | 5398.4 | 4445.2 | 2195.1 | 999.0 | 582.0 | 449.1 | 407.9 | 380.4 | 357.5 | 339.1 | 339.1 |
| 45° | 5513.0 | 4591.9 | 2153.9 | 976.1 | 549.9 | 453.7 | 407.9 | 371.2 | 343.7 | 334.5 | 325.4 |
| 47.5° | 5563.4 | 4701.9 | 2140.1 | 939.5 | 522.4 | 435.4 | 398.7 | 362.0 | 334.5 | 316.2 | 311.6 |
| 50° | 5696.3 | 4935.6 | 2190.5 | 912.0 | 490.4 | 417.0 | 421.6 | 357.5 | 330.0 | 307.0 | 302.5 |
| 52.5° | 5774.2 | 5123.5 | 2300.5 | 870.7 | 467.4 | 394.1 | 412.4 | 348.3 | 316.2 | 293.3 | 293.3 |
| 55° | 6058.4 | 5435.1 | 2419.7 | 838.6 | 439.9 | 362.0 | 380.4 | 330.0 | 293.3 | 279.5 | 279.5 |
| 57.5° | 6420.4 | 5765.1 | 2520.5 | 824.9 | 421.6 | 339.1 | 339.1 | 320.8 | 279.5 | 261.2 | 256.6 |
| 60° | 6672.4 | 6035.4 | 2580.1 | 815.7 | 403.3 | 316.2 | 302.5 | 320.8 | 265.8 | 247.5 | 242.9 |
| 62.5° | 6699.9 | 5879.6 | 2520.5 | 811.1 | 398.7 | 293.3 | 275.0 | 307.0 | 252.0 | 233.7 | 224.6 |
| 65° | 6525.8 | 5563.4 | 2355.5 | 792.8 | 394.1 | 270.4 | 256.6 | 265.8 | 233.7 | 220.0 | 210.8 |
| 67.5° | 6177.5 | 5050.2 | 2117.2 | 783.6 | 389.5 | 252.0 | 233.7 | 229.1 | 215.4 | 201.6 | 192.5 |
| 70° | 5366.4 | 4381.1 | 1837.7 | 742.4 | 380.4 | 238.3 | 210.8 | 206.2 | 192.5 | 183.3 | 178.7 |
| 72.5° | 4504.8 | 3583.7 | 1516.9 | 687.4 | 362.0 | 215.4 | 192.5 | 183.3 | 178.7 | 165.0 | 160.4 |
| 75° | 3450.8 | 2758.8 | 1214.4 | 609.5 | 316.2 | 192.5 | 169.6 | 160.4 | 155.8 | 146.6 | 142.1 |
| 77.5° | 2424.3 | 2053.1 | 898.2 | 494.9 | 265.8 | 174.1 | 151.2 | 142.1 | 137.5 | 123.7 | 123.7 |
| 80° | 1645.2 | 1439.0 | 609.5 | 343.7 | 206.2 | 142.1 | 132.9 | 123.7 | 114.6 | 105.4 | 105.4 |
| 82.5° | 1021.9 | 1008.2 | 439.9 | 224.6 | 151.2 | 114.6 | 105.4 | 105.4 | 91.7 | 82.5 | 82.5 |
| 85° | 467.4 | 618.7 | 307.0 | 155.8 | 114.6 | 87.1 | 87.1 | 82.5 | 73.3 | 59.6 | 59.6 |
| 87.5° | 146.6 | 206.2 | 160.4 | 68.7 | 64.2 | 50.4 | 50.4 | 45.8 | 45.8 | 36.7 | 36.7 |
| 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-2E-730-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 | 3299.6 |
| 2.5° | 2891.7 | 2887.1 | 2887.1 | 2868.8 | 2914.6 | 2914.6 | 2942.1 | 2919.2 | 2932.9 | 2937.5 | 2974.2 |
| 5° | 2295.9 | 2332.6 | 2360.1 | 2415.1 | 2447.2 | 2460.9 | 2460.9 | 2497.6 | 2483.8 | 2511.3 | 2566.3 |
| 7.5° | 1681.9 | 1727.7 | 1810.2 | 1878.9 | 1933.9 | 1952.2 | 1947.7 | 1956.8 | 1970.6 | 1938.5 | 1947.7 |
| 10° | 1361.1 | 1329.0 | 1356.5 | 1420.6 | 1471.1 | 1530.6 | 1484.8 | 1480.2 | 1494.0 | 1480.2 | 1507.7 |
| 12.5° | 1136.5 | 1099.9 | 1076.9 | 1076.9 | 1113.6 | 1141.1 | 1127.3 | 1150.3 | 1200.7 | 1214.4 | 1246.5 |
| 15° | 921.1 | 889.0 | 870.7 | 847.8 | 884.5 | 893.6 | 907.4 | 939.5 | 976.1 | 994.4 | 1031.1 |
| 17.5° | 737.8 | 737.8 | 737.8 | 719.5 | 733.2 | 747.0 | 751.6 | 792.8 | 797.4 | 815.7 | 829.5 |
| 20° | 604.9 | 618.7 | 641.6 | 650.7 | 664.5 | 664.5 | 655.3 | 678.2 | 659.9 | 673.7 | 682.8 |
| 22.5° | 545.3 | 563.7 | 572.8 | 577.4 | 595.8 | 600.3 | 577.4 | 582.0 | 586.6 | 572.8 | 577.4 |
| 25° | 513.3 | 522.4 | 513.3 | 517.8 | 522.4 | 513.3 | 517.8 | 527.0 | 522.4 | 531.6 | 527.0 |
| 27.5° | 499.5 | 490.4 | 485.8 | 481.2 | 481.2 | 472.0 | 476.6 | 476.6 | 485.8 | 490.4 | 490.4 |
| 30° | 499.5 | 485.8 | 467.4 | 453.7 | 453.7 | 439.9 | 449.1 | 458.3 | 462.9 | 472.0 | 472.0 |
| 32.5° | 513.3 | 485.8 | 453.7 | 439.9 | 426.2 | 417.0 | 426.2 | 439.9 | 458.3 | 462.9 | 467.4 |
| 35° | 407.9 | 421.6 | 417.0 | 398.7 | 394.1 | 394.1 | 389.5 | 389.5 | 375.8 | 375.8 | 371.2 |
| 37.5° | 366.6 | 362.0 | 371.2 | 375.8 | 380.4 | 366.6 | 366.6 | 348.3 | 343.7 | 348.3 | 348.3 |
| 40° | 343.7 | 343.7 | 343.7 | 357.5 | 362.0 | 352.9 | 339.1 | 330.0 | 330.0 | 330.0 | 334.5 |
| 42.5° | 334.5 | 325.4 | 320.8 | 330.0 | 343.7 | 334.5 | 320.8 | 316.2 | 316.2 | 320.8 | 320.8 |
| 45° | 320.8 | 316.2 | 311.6 | 307.0 | 325.4 | 311.6 | 307.0 | 302.5 | 302.5 | 302.5 | 307.0 |
| 47.5° | 307.0 | 302.5 | 293.3 | 293.3 | 297.9 | 293.3 | 288.7 | 288.7 | 288.7 | 297.9 | 297.9 |
| 50° | 297.9 | 293.3 | 284.1 | 284.1 | 284.1 | 284.1 | 279.5 | 279.5 | 279.5 | 284.1 | 288.7 |
| 52.5° | 284.1 | 279.5 | 275.0 | 270.4 | 270.4 | 270.4 | 270.4 | 270.4 | 270.4 | 275.0 | 279.5 |
| 55° | 270.4 | 265.8 | 261.2 | 261.2 | 265.8 | 265.8 | 261.2 | 265.8 | 261.2 | 265.8 | 270.4 |
| 57.5° | 256.6 | 252.0 | 247.5 | 252.0 | 256.6 | 252.0 | 252.0 | 252.0 | 252.0 | 252.0 | 256.6 |
| 60° | 238.3 | 238.3 | 238.3 | 238.3 | 247.5 | 247.5 | 247.5 | 247.5 | 238.3 | 242.9 | 247.5 |
| 62.5° | 229.1 | 224.6 | 224.6 | 229.1 | 233.7 | 233.7 | 238.3 | 233.7 | 229.1 | 233.7 | 233.7 |
| 65° | 210.8 | 210.8 | 210.8 | 215.4 | 215.4 | 220.0 | 220.0 | 220.0 | 215.4 | 220.0 | 220.0 |
| 67.5° | 197.1 | 197.1 | 197.1 | 197.1 | 206.2 | 206.2 | 206.2 | 206.2 | 201.6 | 201.6 | 206.2 |
| 70° | 174.1 | 178.7 | 174.1 | 183.3 | 192.5 | 187.9 | 192.5 | 192.5 | 187.9 | 183.3 | 192.5 |
| 72.5° | 160.4 | 160.4 | 160.4 | 160.4 | 174.1 | 174.1 | 174.1 | 178.7 | 174.1 | 169.6 | 174.1 |
| 75° | 142.1 | 142.1 | 142.1 | 146.6 | 155.8 | 155.8 | 155.8 | 155.8 | 155.8 | 151.2 | 151.2 |
| 77.5° | 123.7 | 128.3 | 123.7 | 128.3 | 137.5 | 132.9 | 137.5 | 142.1 | 137.5 | 132.9 | 132.9 |
| 80° | 105.4 | 105.4 | 105.4 | 110.0 | 114.6 | 114.6 | 114.6 | 119.2 | 114.6 | 110.0 | 110.0 |
| 82.5° | 82.5 | 82.5 | 87.1 | 87.1 | 91.7 | 91.7 | 91.7 | 96.2 | 91.7 | 87.1 | 87.1 |
| 85° | 64.2 | 64.2 | 64.2 | 68.7 | 68.7 | 73.3 | 73.3 | 77.9 | 77.9 | 73.3 | 73.3 |
| 87.5° | 41.2 | 36.7 | 41.2 | 41.2 | 45.8 | 45.8 | 41.2 | 36.7 | 41.2 | 36.7 | 32.1 |
| 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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| 27.5° | 504.1 | 522.4 | 591.2 | 792.8 | 1173.2 | 1750.6 | 2763.4 | 3945.7 | 4252.8 | 4316.9 |
| 30° | 494.9 | 540.8 | 577.4 | 705.7 | 1067.8 | 1636.0 | 2873.4 | 4211.5 | 4527.7 | 4532.3 |
| 32.5° | 485.8 | 476.6 | 504.1 | 614.1 | 939.5 | 1516.9 | 2965.0 | 4481.9 | 4729.4 | 4743.1 |
| 35° | 380.4 | 398.7 | 444.5 | 540.8 | 843.2 | 1429.8 | 3010.8 | 4628.5 | 4986.0 | 4999.7 |
| 37.5° | 357.5 | 380.4 | 417.0 | 499.5 | 779.1 | 1356.5 | 3024.6 | 4912.7 | 5256.4 | 5283.9 |
| 40° | 348.3 | 366.6 | 394.1 | 462.9 | 728.7 | 1264.8 | 3052.1 | 5206.0 | 5655.1 | 5618.4 |
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| 45° | 325.4 | 339.1 | 371.2 | 444.5 | 641.6 | 1136.5 | 2983.3 | 5526.8 | 6108.8 | 6035.4 |
| 47.5° | 307.0 | 334.5 | 362.0 | 430.8 | 586.6 | 1076.9 | 2896.3 | 5609.2 | 6140.8 | 6117.9 |
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| 52.5° | 293.3 | 320.8 | 389.5 | 389.5 | 513.3 | 1012.8 | 2965.0 | 5907.1 | 6218.7 | 6255.4 |
| 55° | 279.5 | 320.8 | 362.0 | 357.5 | 476.6 | 967.0 | 3061.3 | 6145.4 | 6461.6 | 6452.5 |
| 57.5° | 270.4 | 311.6 | 343.7 | 325.4 | 435.4 | 934.9 | 3203.3 | 6374.6 | 6754.9 | 6690.8 |
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| 62.5° | 247.5 | 325.4 | 270.4 | 279.5 | 375.8 | 893.6 | 3272.1 | 6076.7 | 6732.0 | 6768.7 |
| 65° | 238.3 | 279.5 | 247.5 | 256.6 | 366.6 | 866.1 | 3075.0 | 5664.2 | 6356.2 | 6516.6 |
| 67.5° | 220.0 | 229.1 | 229.1 | 238.3 | 357.5 | 802.0 | 2671.7 | 4921.8 | 5783.4 | 5870.5 |
| 70° | 201.6 | 206.2 | 206.2 | 220.0 | 348.3 | 728.7 | 2204.3 | 4257.3 | 5018.1 | 5183.1 |
| 72.5° | 183.3 | 183.3 | 183.3 | 201.6 | 320.8 | 669.1 | 1814.8 | 3272.1 | 4170.3 | 4284.8 |
| 75° | 160.4 | 160.4 | 160.4 | 178.7 | 288.7 | 609.5 | 1429.8 | 2433.4 | 3070.4 | 3235.4 |
| 77.5° | 142.1 | 142.1 | 137.5 | 160.4 | 252.0 | 494.9 | 1031.1 | 1718.5 | 2163.0 | 2300.5 |
| 80° | 119.2 | 114.6 | 114.6 | 128.3 | 197.1 | 357.5 | 664.5 | 1214.4 | 1507.7 | 1567.3 |
| 82.5° | 96.2 | 91.7 | 87.1 | 96.2 | 142.1 | 224.6 | 412.4 | 847.8 | 967.0 | 930.3 |
| 85° | 91.7 | 96.2 | 77.9 | 73.3 | 100.8 | 146.6 | 261.2 | 522.4 | 435.4 | 435.4 |
| 87.5° | 36.7 | 32.1 | 32.1 | 27.5 | 50.4 | 55.0 | 114.6 | 96.2 | 73.3 | 73.3 |
| 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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