

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: P671765

Luminaire Tested: **CCP-SA-2E-850-U-SLL**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671765
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-850-U-SLL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ SLL distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

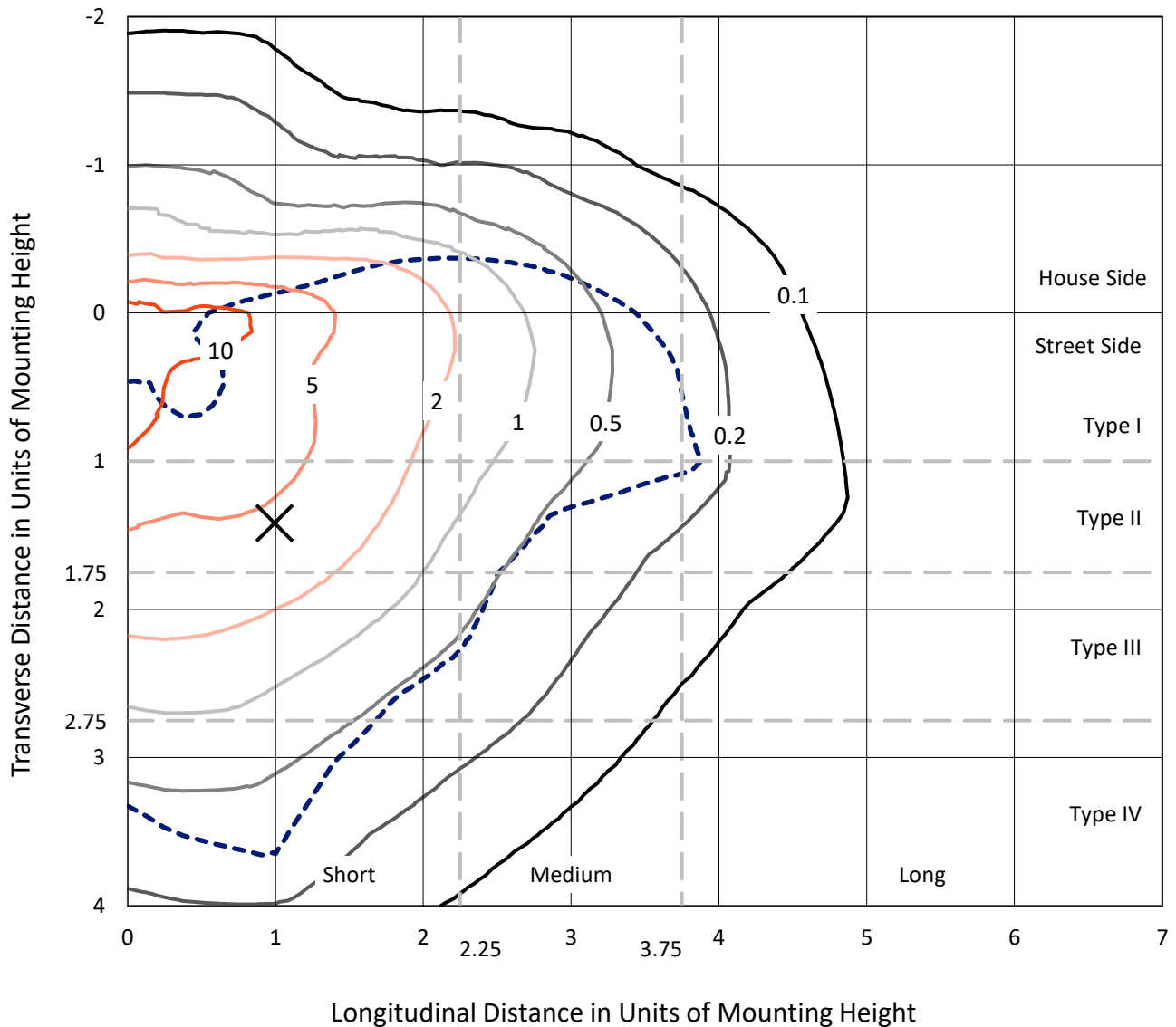
Lumens per Lamp: N/A
Luminaire Lumens: 9899.6 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

REPORT NUMBER: P671765
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Iso-Footcandle Lines of Horizontal Illumination

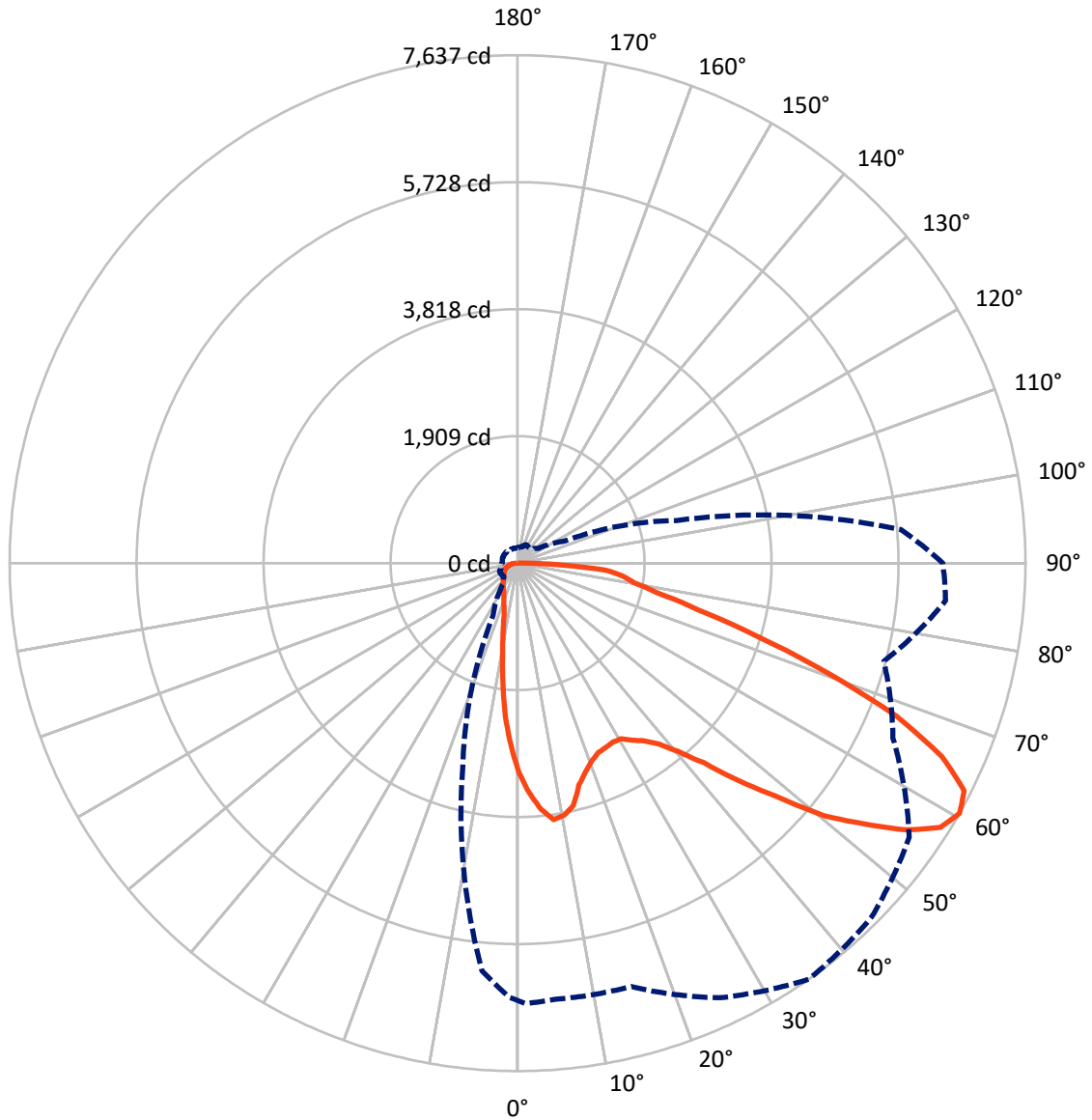
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 16 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 | 1884.0 | 0.0 | 1884.0 |
| | % Fixture | 19.0 | 0.0 | 19.0 |
| Street Side | Lumens | 8015.5 | 0.0 | 8015.5 |
| | % Fixture | 81.0 | 0.0 | 81.0 |
| Total | Lumens | 9899.6 | 0.0 | 9899.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 245.6 | 2.5 |
| 10°-20° | 518.6 | 5.2 |
| 20°-30° | 758.8 | 7.7 |
| 30°-40° | 1069.1 | 10.8 |
| 40°-50° | 1469.3 | 14.8 |
| 50°-60° | 2002.4 | 20.2 |
| 60°-70° | 2191.6 | 22.1 |
| 70°-80° | 1265.3 | 12.8 |
| 80°-90° | 378.9 | 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° | 9899.6 | 100.0 |
| 0°-180° | 9899.6 | 100.0 |



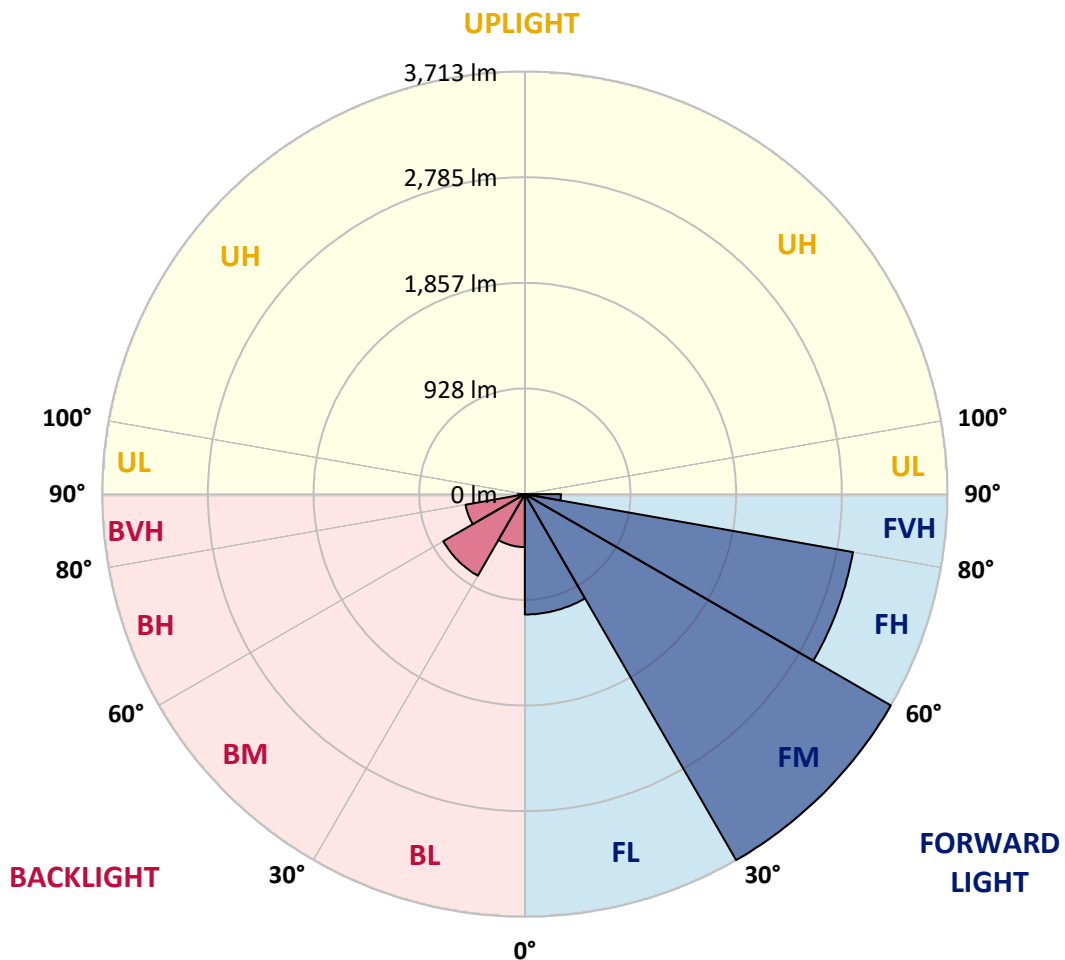
REPORT NUMBER: P671765
 CATALOG NUMBER: CCP-SA-2E-850-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1057.6 | 10.7 | | | |
| FM (30°-60°) | 3713.1 | 37.5 | | | |
| FH (60°-80°) | 2927.7 | 29.6 | | | G2/5000 |
| FVH (80°-90°) | 317.2 | 3.2 | | | G3/500 |
| BL (0°-30°) | 465.5 | 4.7 | B1/500 | | |
| BM (30°-60°) | 827.6 | 8.4 | B1/1000 | | |
| BH (60°-80°) | 529.2 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 61.7 | 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





REPORT NUMBER: P671765

CATALOG NUMBER: CCP-SA-2E-850-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 |
| 2.5° | 3385.8 | 3372.7 | 3385.8 | 3434.1 | 3447.3 | 3469.3 | 3469.3 | 3438.5 | 3381.4 | 3355.1 | 3311.2 |
| 5° | 3460.5 | 3438.5 | 3548.3 | 3649.3 | 3728.4 | 3719.6 | 3644.9 | 3583.4 | 3469.3 | 3298.0 | 3135.5 |
| 7.5° | 3311.2 | 3333.1 | 3412.2 | 3675.7 | 3860.1 | 3895.2 | 3776.7 | 3653.7 | 3407.8 | 3170.6 | 2951.1 |
| 10° | 3030.1 | 3060.9 | 3232.1 | 3504.4 | 3794.2 | 3851.3 | 3776.7 | 3627.4 | 3333.1 | 3038.9 | 2784.2 |
| 12.5° | 2894.0 | 2964.2 | 3065.3 | 3394.6 | 3601.0 | 3737.1 | 3702.0 | 3605.4 | 3276.0 | 2929.1 | 2683.2 |
| 15° | 2894.0 | 2911.5 | 3060.9 | 3337.5 | 3456.1 | 3460.5 | 3473.7 | 3491.2 | 3293.6 | 2977.4 | 2648.1 |
| 17.5° | 2986.2 | 3034.5 | 3161.9 | 3333.1 | 3355.1 | 3302.4 | 3302.4 | 3377.0 | 3328.7 | 3113.6 | 2775.4 |
| 20° | 3210.2 | 3192.6 | 3359.5 | 3429.7 | 3311.2 | 3179.4 | 3166.3 | 3293.6 | 3368.3 | 3258.5 | 3008.2 |
| 22.5° | 3434.1 | 3513.2 | 3649.3 | 3491.2 | 3271.6 | 3096.0 | 3078.4 | 3236.5 | 3486.8 | 3508.8 | 3276.0 |
| 25° | 3772.3 | 3851.3 | 3921.6 | 3728.4 | 3267.3 | 3074.0 | 3087.2 | 3210.2 | 3631.8 | 3864.5 | 3724.0 |
| 27.5° | 4136.8 | 4185.1 | 4286.1 | 3987.5 | 3372.7 | 3047.7 | 3060.9 | 3245.3 | 3767.9 | 4097.2 | 4075.3 |
| 30° | 4343.2 | 4395.9 | 4373.9 | 4035.8 | 3442.9 | 3065.3 | 3030.1 | 3293.6 | 3693.2 | 4097.2 | 4303.6 |
| 32.5° | 4545.2 | 4514.4 | 4501.3 | 4114.8 | 3530.7 | 3175.0 | 3087.2 | 3394.6 | 3737.1 | 4163.1 | 4597.9 |
| 35° | 4791.1 | 4747.2 | 4712.1 | 4268.5 | 3675.7 | 3280.4 | 3240.9 | 3526.4 | 3833.8 | 4299.3 | 4835.0 |
| 37.5° | 5063.4 | 5063.4 | 4892.1 | 4382.7 | 3846.9 | 3451.7 | 3407.8 | 3715.2 | 3987.5 | 4382.7 | 5160.0 |
| 40° | 5383.9 | 5397.1 | 5094.1 | 4536.4 | 4040.2 | 3724.0 | 3710.8 | 3961.1 | 4136.8 | 4505.7 | 5471.8 |
| 42.5° | 5621.1 | 5629.9 | 5269.8 | 4593.5 | 4264.1 | 4101.6 | 4158.7 | 4356.3 | 4308.0 | 4615.4 | 5493.7 |
| 45° | 5783.6 | 5739.7 | 5392.7 | 4756.0 | 4510.0 | 4668.1 | 4685.7 | 4742.8 | 4532.0 | 4681.3 | 5581.6 |
| 47.5° | 5862.6 | 5853.8 | 5445.4 | 4944.8 | 5028.2 | 5243.4 | 5344.4 | 5265.4 | 4738.4 | 4611.0 | 5581.6 |
| 50° | 5941.7 | 5867.0 | 5493.7 | 5203.9 | 5533.3 | 5968.0 | 5946.1 | 5801.1 | 5023.8 | 4698.9 | 5498.1 |
| 52.5° | 5994.4 | 5928.5 | 5590.3 | 5436.6 | 6016.3 | 6508.2 | 6596.0 | 6328.1 | 5357.6 | 4861.4 | 5537.7 |
| 55° | 6183.2 | 6130.5 | 5880.2 | 5752.8 | 6574.0 | 7079.1 | 7092.2 | 6719.0 | 5708.9 | 5129.2 | 5796.7 |
| 57.5° | 6411.6 | 6442.3 | 6279.8 | 6200.8 | 7000.0 | 7496.2 | 7447.9 | 7008.8 | 6007.5 | 5454.2 | 6095.4 |
| 60° | 6574.0 | 6622.3 | 6582.8 | 6591.6 | 7210.8 | 7636.8 | 7527.0 | 7188.8 | 6227.1 | 5700.1 | 6459.9 |
| 62.5° | 6486.2 | 6582.8 | 6745.3 | 6710.2 | 7219.6 | 7535.8 | 7382.1 | 6951.7 | 6253.5 | 6020.7 | 6736.5 |
| 65° | 6244.7 | 6253.5 | 6569.6 | 6762.9 | 6824.4 | 7013.2 | 6811.2 | 6455.5 | 5981.2 | 6218.3 | 6697.0 |
| 67.5° | 5625.5 | 5695.7 | 5981.2 | 6358.9 | 6099.8 | 6143.7 | 6126.1 | 5612.3 | 5568.4 | 6082.2 | 6394.0 |
| 70° | 4966.8 | 5015.1 | 5326.9 | 5770.4 | 5151.2 | 4944.8 | 4984.3 | 4602.3 | 4782.3 | 5660.6 | 5783.6 |
| 72.5° | 4106.0 | 4136.8 | 4492.5 | 4883.3 | 4132.4 | 3763.5 | 3855.7 | 3543.9 | 3798.6 | 4953.6 | 4878.9 |
| 75° | 3100.4 | 3157.5 | 3434.1 | 3895.2 | 3043.3 | 2806.2 | 2898.4 | 2771.0 | 3008.2 | 4079.7 | 3785.5 |
| 77.5° | 2204.5 | 2160.6 | 2503.1 | 3047.7 | 2288.0 | 2147.4 | 2156.2 | 2178.2 | 2432.9 | 3438.5 | 2718.3 |
| 80° | 1501.9 | 1515.1 | 1822.5 | 2235.3 | 1796.1 | 1774.2 | 1752.2 | 1927.9 | 2042.0 | 2722.7 | 1976.2 |
| 82.5° | 891.5 | 891.5 | 1229.6 | 1589.7 | 1418.4 | 1598.5 | 1497.5 | 1655.6 | 1598.5 | 2002.5 | 1295.5 |
| 85° | 417.2 | 417.2 | 632.4 | 1146.2 | 1097.9 | 1317.4 | 1119.8 | 1251.6 | 1181.3 | 1396.5 | 584.1 |
| 87.5° | 70.3 | 61.5 | 127.4 | 562.1 | 452.3 | 513.8 | 202.0 | 667.5 | 742.2 | 974.9 | 144.9 |
| 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-2E-850-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 |
| 2.5° | 3262.9 | 3232.1 | 3170.6 | 3091.6 | 3025.7 | 2942.3 | 2915.9 | 2858.9 | 2779.8 | 2771.0 | 2735.9 |
| 5° | 3074.0 | 2968.6 | 2836.9 | 2674.4 | 2564.6 | 2450.4 | 2353.8 | 2296.7 | 2230.9 | 2222.1 | 2204.5 |
| 7.5° | 2867.6 | 2735.9 | 2516.3 | 2323.1 | 2134.3 | 1954.2 | 1866.4 | 1756.6 | 1681.9 | 1624.8 | 1598.5 |
| 10° | 2674.4 | 2551.4 | 2279.2 | 2015.7 | 1848.8 | 1730.2 | 1624.8 | 1510.7 | 1418.4 | 1348.2 | 1321.8 |
| 12.5° | 2547.1 | 2402.1 | 2107.9 | 1857.6 | 1734.6 | 1598.5 | 1479.9 | 1357.0 | 1238.4 | 1146.2 | 1097.9 |
| 15° | 2490.0 | 2353.8 | 2055.2 | 1778.5 | 1598.5 | 1409.7 | 1273.5 | 1150.6 | 1005.6 | 939.8 | 917.8 |
| 17.5° | 2626.1 | 2424.1 | 2037.6 | 1686.3 | 1431.6 | 1216.4 | 1049.6 | 917.8 | 812.4 | 746.6 | 720.2 |
| 20° | 2801.8 | 2551.4 | 2068.4 | 1576.5 | 1273.5 | 1032.0 | 847.6 | 707.0 | 636.8 | 588.5 | 584.1 |
| 22.5° | 3025.7 | 2740.3 | 2116.7 | 1497.5 | 1097.9 | 830.0 | 663.1 | 579.7 | 531.4 | 527.0 | 518.2 |
| 25° | 3425.4 | 3082.8 | 2195.7 | 1392.1 | 957.3 | 685.1 | 566.5 | 518.2 | 496.2 | 483.1 | 491.8 |
| 27.5° | 3767.9 | 3306.8 | 2252.8 | 1326.2 | 900.3 | 645.5 | 548.9 | 496.2 | 474.3 | 469.9 | 474.3 |
| 30° | 3969.9 | 3513.2 | 2235.3 | 1203.3 | 786.1 | 614.8 | 584.1 | 566.5 | 522.6 | 487.5 | 487.5 |
| 32.5° | 4154.3 | 3644.9 | 2230.9 | 1093.5 | 671.9 | 513.8 | 487.5 | 474.3 | 500.6 | 518.2 | 505.0 |
| 35° | 4409.0 | 3851.3 | 2217.7 | 1032.0 | 623.6 | 474.3 | 430.4 | 395.2 | 377.7 | 368.9 | 382.1 |
| 37.5° | 4681.3 | 3991.9 | 2182.6 | 1023.2 | 597.2 | 452.3 | 417.2 | 382.1 | 364.5 | 355.7 | 351.3 |
| 40° | 4979.9 | 4141.2 | 2143.0 | 979.3 | 584.1 | 439.1 | 404.0 | 373.3 | 351.3 | 338.1 | 333.8 |
| 42.5° | 5173.2 | 4259.7 | 2103.5 | 957.3 | 557.7 | 430.4 | 390.8 | 364.5 | 342.5 | 325.0 | 325.0 |
| 45° | 5282.9 | 4400.3 | 2064.0 | 935.4 | 527.0 | 434.8 | 390.8 | 355.7 | 329.4 | 320.6 | 311.8 |
| 47.5° | 5331.3 | 4505.7 | 2050.8 | 900.3 | 500.6 | 417.2 | 382.1 | 346.9 | 320.6 | 303.0 | 298.6 |
| 50° | 5458.6 | 4729.6 | 2099.1 | 873.9 | 469.9 | 399.6 | 404.0 | 342.5 | 316.2 | 294.2 | 289.8 |
| 52.5° | 5533.3 | 4909.7 | 2204.5 | 834.4 | 447.9 | 377.7 | 395.2 | 333.8 | 303.0 | 281.1 | 281.1 |
| 55° | 5805.5 | 5208.3 | 2318.7 | 803.6 | 421.6 | 346.9 | 364.5 | 316.2 | 281.1 | 267.9 | 267.9 |
| 57.5° | 6152.5 | 5524.5 | 2415.3 | 790.5 | 404.0 | 325.0 | 325.0 | 307.4 | 267.9 | 250.3 | 245.9 |
| 60° | 6394.0 | 5783.6 | 2472.4 | 781.7 | 386.4 | 303.0 | 289.8 | 307.4 | 254.7 | 237.1 | 232.7 |
| 62.5° | 6420.3 | 5634.3 | 2415.3 | 777.3 | 382.1 | 281.1 | 263.5 | 294.2 | 241.5 | 224.0 | 215.2 |
| 65° | 6253.5 | 5331.3 | 2257.2 | 759.7 | 377.7 | 259.1 | 245.9 | 254.7 | 224.0 | 210.8 | 202.0 |
| 67.5° | 5919.7 | 4839.4 | 2028.9 | 750.9 | 373.3 | 241.5 | 224.0 | 219.6 | 206.4 | 193.2 | 184.4 |
| 70° | 5142.4 | 4198.3 | 1761.0 | 711.4 | 364.5 | 228.4 | 202.0 | 197.6 | 184.4 | 175.7 | 171.3 |
| 72.5° | 4316.8 | 3434.1 | 1453.6 | 658.7 | 346.9 | 206.4 | 184.4 | 175.7 | 171.3 | 158.1 | 153.7 |
| 75° | 3306.8 | 2643.7 | 1163.7 | 584.1 | 303.0 | 184.4 | 162.5 | 153.7 | 149.3 | 140.5 | 136.1 |
| 77.5° | 2323.1 | 1967.4 | 860.7 | 474.3 | 254.7 | 166.9 | 144.9 | 136.1 | 131.7 | 118.6 | 118.6 |
| 80° | 1576.5 | 1378.9 | 584.1 | 329.4 | 197.6 | 136.1 | 127.4 | 118.6 | 109.8 | 101.0 | 101.0 |
| 82.5° | 979.3 | 966.1 | 421.6 | 215.2 | 144.9 | 109.8 | 101.0 | 101.0 | 87.8 | 79.0 | 79.0 |
| 85° | 447.9 | 592.8 | 294.2 | 149.3 | 109.8 | 83.4 | 83.4 | 79.0 | 70.3 | 57.1 | 57.1 |
| 87.5° | 140.5 | 197.6 | 153.7 | 65.9 | 61.5 | 48.3 | 48.3 | 43.9 | 43.9 | 35.1 | 35.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P671765

CATALOG NUMBER: CCP-SA-2E-850-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 | 3161.9 |
| 2.5° | 2771.0 | 2766.6 | 2766.6 | 2749.1 | 2793.0 | 2793.0 | 2819.3 | 2797.4 | 2810.5 | 2814.9 | 2850.1 |
| 5° | 2200.1 | 2235.3 | 2261.6 | 2314.3 | 2345.0 | 2358.2 | 2358.2 | 2393.4 | 2380.2 | 2406.5 | 2459.2 |
| 7.5° | 1611.7 | 1655.6 | 1734.6 | 1800.5 | 1853.2 | 1870.8 | 1866.4 | 1875.2 | 1888.3 | 1857.6 | 1866.4 |
| 10° | 1304.3 | 1273.5 | 1299.9 | 1361.4 | 1409.7 | 1466.8 | 1422.8 | 1418.4 | 1431.6 | 1418.4 | 1444.8 |
| 12.5° | 1089.1 | 1054.0 | 1032.0 | 1032.0 | 1067.1 | 1093.5 | 1080.3 | 1102.3 | 1150.6 | 1163.7 | 1194.5 |
| 15° | 882.7 | 851.9 | 834.4 | 812.4 | 847.6 | 856.3 | 869.5 | 900.3 | 935.4 | 953.0 | 988.1 |
| 17.5° | 707.0 | 707.0 | 707.0 | 689.5 | 702.6 | 715.8 | 720.2 | 759.7 | 764.1 | 781.7 | 794.9 |
| 20° | 579.7 | 592.8 | 614.8 | 623.6 | 636.8 | 636.8 | 628.0 | 649.9 | 632.4 | 645.5 | 654.3 |
| 22.5° | 522.6 | 540.2 | 548.9 | 553.3 | 570.9 | 575.3 | 553.3 | 557.7 | 562.1 | 548.9 | 553.3 |
| 25° | 491.8 | 500.6 | 491.8 | 496.2 | 500.6 | 491.8 | 496.2 | 505.0 | 500.6 | 509.4 | 505.0 |
| 27.5° | 478.7 | 469.9 | 465.5 | 461.1 | 461.1 | 452.3 | 456.7 | 456.7 | 465.5 | 469.9 | 469.9 |
| 30° | 478.7 | 465.5 | 447.9 | 434.8 | 434.8 | 421.6 | 430.4 | 439.1 | 443.5 | 452.3 | 452.3 |
| 32.5° | 491.8 | 465.5 | 434.8 | 421.6 | 408.4 | 399.6 | 408.4 | 421.6 | 439.1 | 443.5 | 447.9 |
| 35° | 390.8 | 404.0 | 399.6 | 382.1 | 377.7 | 377.7 | 373.3 | 373.3 | 360.1 | 360.1 | 355.7 |
| 37.5° | 351.3 | 346.9 | 355.7 | 360.1 | 364.5 | 351.3 | 351.3 | 333.8 | 329.4 | 333.8 | 333.8 |
| 40° | 329.4 | 329.4 | 329.4 | 342.5 | 346.9 | 338.1 | 325.0 | 316.2 | 316.2 | 316.2 | 320.6 |
| 42.5° | 320.6 | 311.8 | 307.4 | 316.2 | 329.4 | 320.6 | 307.4 | 303.0 | 303.0 | 307.4 | 307.4 |
| 45° | 307.4 | 303.0 | 298.6 | 294.2 | 311.8 | 298.6 | 294.2 | 289.8 | 289.8 | 289.8 | 294.2 |
| 47.5° | 294.2 | 289.8 | 281.1 | 281.1 | 285.4 | 281.1 | 276.7 | 276.7 | 276.7 | 285.4 | 285.4 |
| 50° | 285.4 | 281.1 | 272.3 | 272.3 | 272.3 | 272.3 | 267.9 | 267.9 | 267.9 | 272.3 | 276.7 |
| 52.5° | 272.3 | 267.9 | 263.5 | 259.1 | 259.1 | 259.1 | 259.1 | 259.1 | 259.1 | 263.5 | 267.9 |
| 55° | 259.1 | 254.7 | 250.3 | 250.3 | 254.7 | 254.7 | 250.3 | 254.7 | 250.3 | 254.7 | 259.1 |
| 57.5° | 245.9 | 241.5 | 237.1 | 241.5 | 245.9 | 241.5 | 241.5 | 241.5 | 241.5 | 241.5 | 245.9 |
| 60° | 228.4 | 228.4 | 228.4 | 228.4 | 237.1 | 237.1 | 237.1 | 237.1 | 228.4 | 232.7 | 237.1 |
| 62.5° | 219.6 | 215.2 | 215.2 | 219.6 | 224.0 | 224.0 | 228.4 | 224.0 | 219.6 | 224.0 | 224.0 |
| 65° | 202.0 | 202.0 | 202.0 | 206.4 | 206.4 | 210.8 | 210.8 | 210.8 | 206.4 | 210.8 | 210.8 |
| 67.5° | 188.8 | 188.8 | 188.8 | 188.8 | 197.6 | 197.6 | 197.6 | 197.6 | 193.2 | 193.2 | 197.6 |
| 70° | 166.9 | 171.3 | 166.9 | 175.7 | 184.4 | 180.1 | 184.4 | 184.4 | 180.1 | 175.7 | 184.4 |
| 72.5° | 153.7 | 153.7 | 153.7 | 153.7 | 166.9 | 166.9 | 166.9 | 171.3 | 166.9 | 162.5 | 166.9 |
| 75° | 136.1 | 136.1 | 136.1 | 140.5 | 149.3 | 149.3 | 149.3 | 149.3 | 149.3 | 144.9 | 144.9 |
| 77.5° | 118.6 | 123.0 | 118.6 | 123.0 | 131.7 | 127.4 | 131.7 | 136.1 | 131.7 | 127.4 | 127.4 |
| 80° | 101.0 | 101.0 | 101.0 | 105.4 | 109.8 | 109.8 | 109.8 | 114.2 | 109.8 | 105.4 | 105.4 |
| 82.5° | 79.0 | 79.0 | 83.4 | 83.4 | 87.8 | 87.8 | 87.8 | 92.2 | 87.8 | 83.4 | 83.4 |
| 85° | 61.5 | 61.5 | 61.5 | 65.9 | 65.9 | 70.3 | 70.3 | 74.7 | 74.7 | 70.3 | 70.3 |
| 87.5° | 39.5 | 35.1 | 39.5 | 39.5 | 43.9 | 43.9 | 39.5 | 35.1 | 39.5 | 35.1 | 30.7 |
| 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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| 27.5° | 483.1 | 500.6 | 566.5 | 759.7 | 1124.2 | 1677.5 | 2648.1 | 3781.1 | 4075.3 | 4136.8 |
| 30° | 474.3 | 518.2 | 553.3 | 676.3 | 1023.2 | 1567.8 | 2753.5 | 4035.8 | 4338.8 | 4343.2 |
| 32.5° | 465.5 | 456.7 | 483.1 | 588.5 | 900.3 | 1453.6 | 2841.3 | 4294.9 | 4532.0 | 4545.2 |
| 35° | 364.5 | 382.1 | 426.0 | 518.2 | 808.0 | 1370.1 | 2885.2 | 4435.4 | 4777.9 | 4791.1 |
| 37.5° | 342.5 | 364.5 | 399.6 | 478.7 | 746.6 | 1299.9 | 2898.4 | 4707.7 | 5037.0 | 5063.4 |
| 40° | 333.8 | 351.3 | 377.7 | 443.5 | 698.2 | 1212.0 | 2924.7 | 4988.7 | 5419.1 | 5383.9 |
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| 45° | 311.8 | 325.0 | 355.7 | 426.0 | 614.8 | 1089.1 | 2858.9 | 5296.1 | 5853.8 | 5783.6 |
| 47.5° | 294.2 | 320.6 | 346.9 | 412.8 | 562.1 | 1032.0 | 2775.4 | 5375.2 | 5884.6 | 5862.6 |
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| 52.5° | 281.1 | 307.4 | 373.3 | 373.3 | 491.8 | 970.5 | 2841.3 | 5660.6 | 5959.2 | 5994.4 |
| 55° | 267.9 | 307.4 | 346.9 | 342.5 | 456.7 | 926.6 | 2933.5 | 5889.0 | 6192.0 | 6183.2 |
| 57.5° | 259.1 | 298.6 | 329.4 | 311.8 | 417.2 | 895.9 | 3069.6 | 6108.5 | 6473.0 | 6411.6 |
| 60° | 245.9 | 298.6 | 294.2 | 289.8 | 386.4 | 869.5 | 3183.8 | 6152.5 | 6534.5 | 6574.0 |
| 62.5° | 237.1 | 311.8 | 259.1 | 267.9 | 360.1 | 856.3 | 3135.5 | 5823.1 | 6451.1 | 6486.2 |
| 65° | 228.4 | 267.9 | 237.1 | 245.9 | 351.3 | 830.0 | 2946.7 | 5427.9 | 6091.0 | 6244.7 |
| 67.5° | 210.8 | 219.6 | 219.6 | 228.4 | 342.5 | 768.5 | 2560.2 | 4716.4 | 5542.0 | 5625.5 |
| 70° | 193.2 | 197.6 | 197.6 | 210.8 | 333.8 | 698.2 | 2112.3 | 4079.7 | 4808.7 | 4966.8 |
| 72.5° | 175.7 | 175.7 | 175.7 | 193.2 | 307.4 | 641.2 | 1739.0 | 3135.5 | 3996.2 | 4106.0 |
| 75° | 153.7 | 153.7 | 153.7 | 171.3 | 276.7 | 584.1 | 1370.1 | 2331.9 | 2942.3 | 3100.4 |
| 77.5° | 136.1 | 136.1 | 131.7 | 153.7 | 241.5 | 474.3 | 988.1 | 1646.8 | 2072.8 | 2204.5 |
| 80° | 114.2 | 109.8 | 109.8 | 123.0 | 188.8 | 342.5 | 636.8 | 1163.7 | 1444.8 | 1501.9 |
| 82.5° | 92.2 | 87.8 | 83.4 | 92.2 | 136.1 | 215.2 | 395.2 | 812.4 | 926.6 | 891.5 |
| 85° | 87.8 | 92.2 | 74.7 | 70.3 | 96.6 | 140.5 | 250.3 | 500.6 | 417.2 | 417.2 |
| 87.5° | 35.1 | 30.7 | 30.7 | 26.3 | 48.3 | 52.7 | 109.8 | 92.2 | 70.3 | 70.3 |
| 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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