

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: P676475

Luminaire Tested: **CCW-SA-1C-835-U-T3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676475
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-835-U-T3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T3 distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

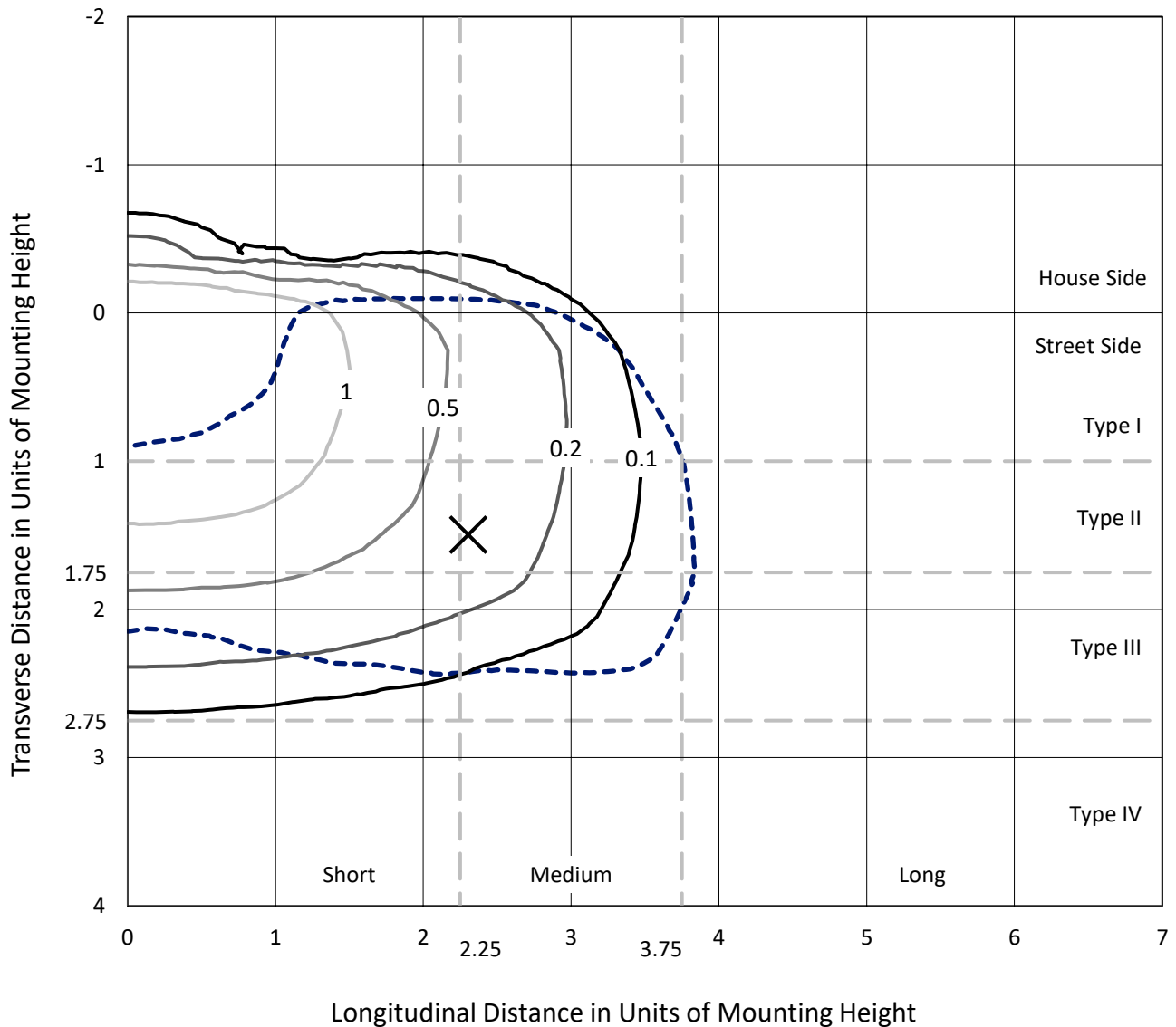
Lumens per Lamp: N/A
Luminaire Lumens: 2683.9 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 32
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

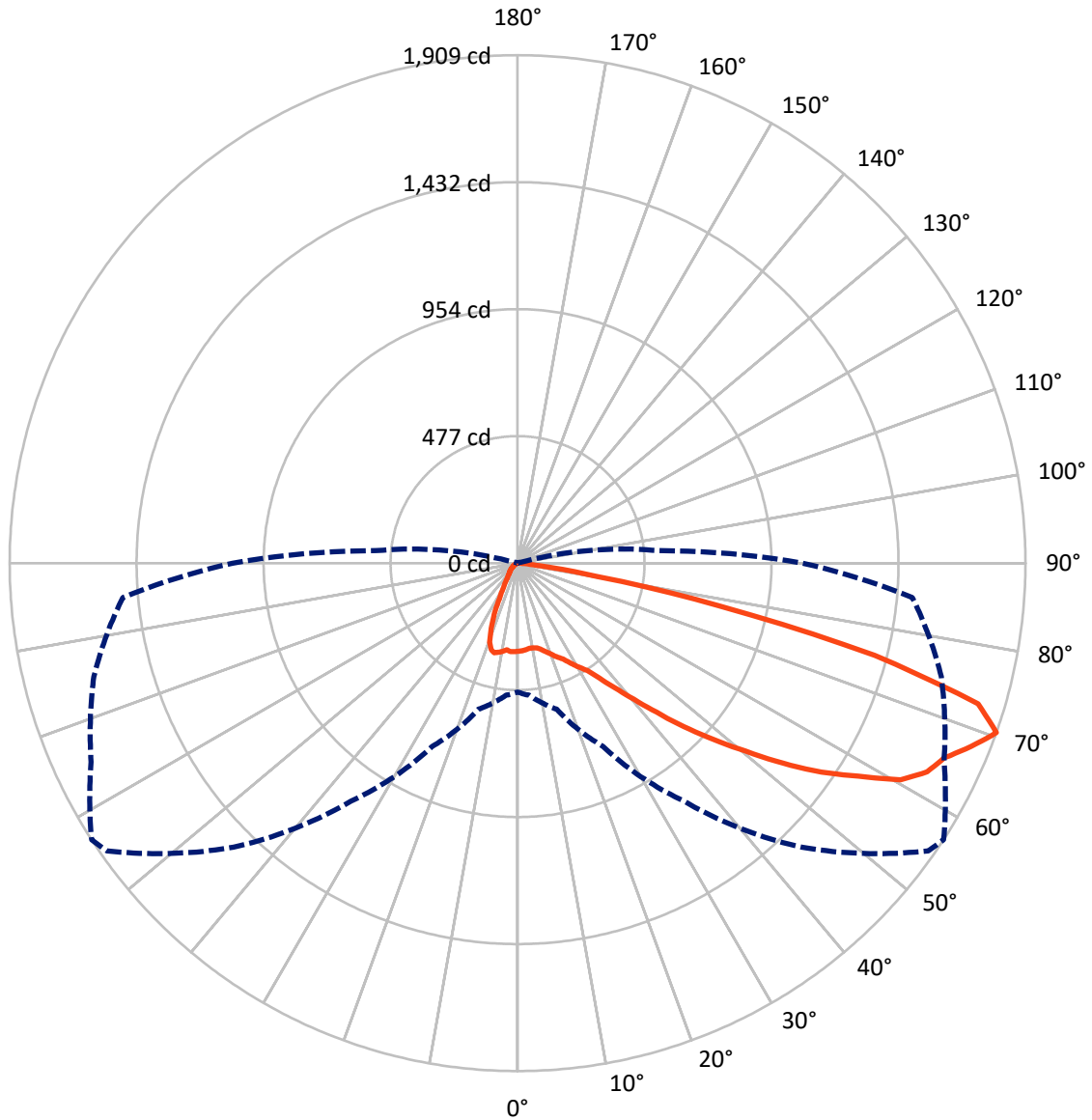
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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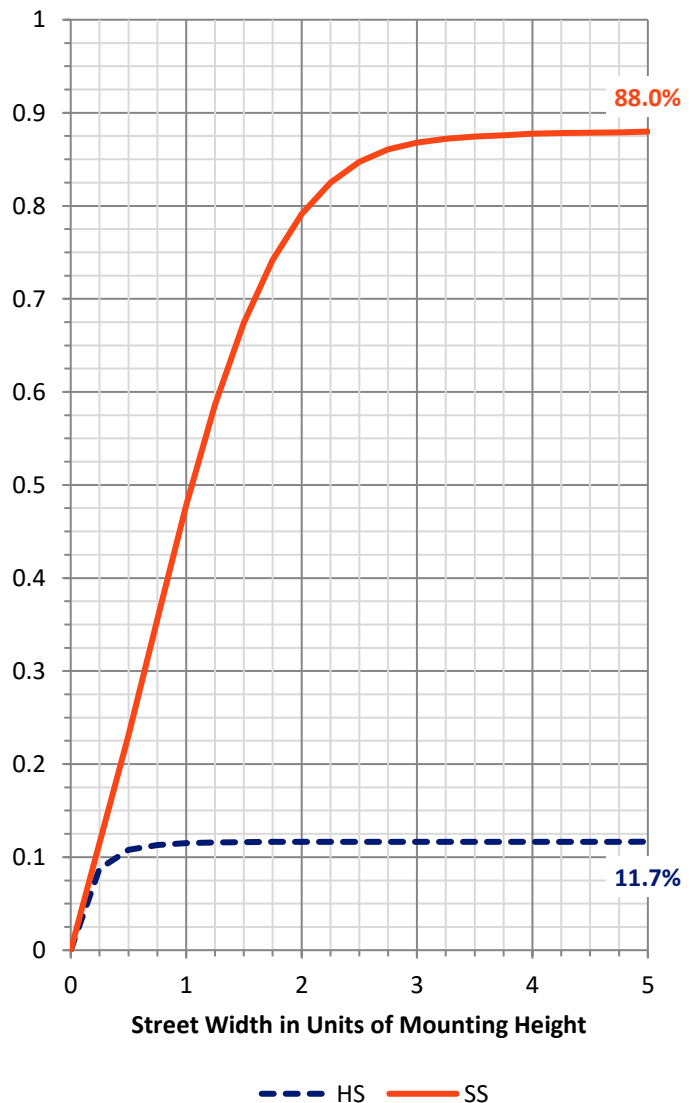
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 316.4 | 0.0 | 316.4 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 2367.5 | 0.0 | 2367.5 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 2683.9 | 0.0 | 2683.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 31.0 | 1.2 |
| 10°-20° | 86.5 | 3.2 |
| 20°-30° | 145.7 | 5.4 |
| 30°-40° | 249.4 | 9.3 |
| 40°-50° | 418.8 | 15.6 |
| 50°-60° | 642.9 | 24.0 |
| 60°-70° | 742.3 | 27.7 |
| 70°-80° | 350.6 | 13.1 |
| 80°-90° | 16.6 | 0.6 |
| 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° | 2683.9 | 100.0 |
| 0°-180° | 2683.9 | 100.0 |



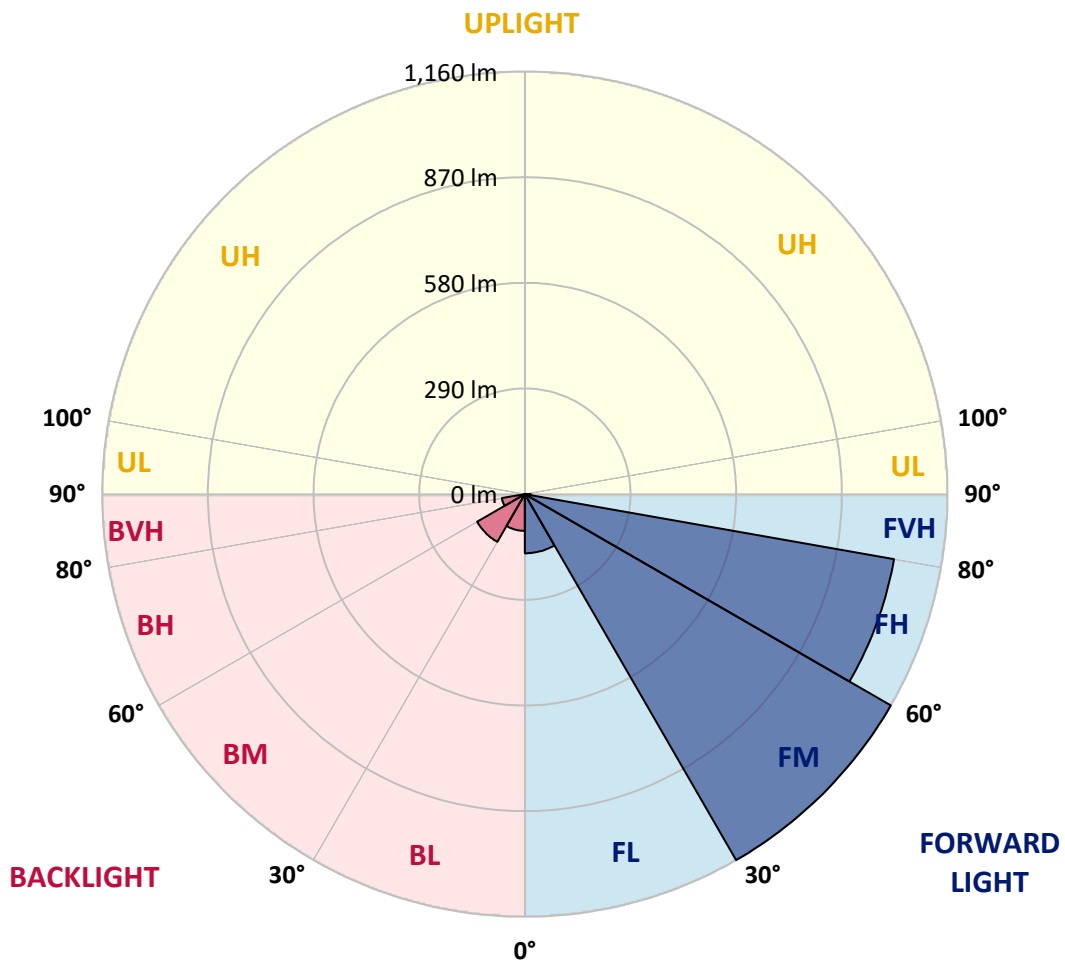
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 162.4 | 6.0 | | | |
| FM (30°-60°) | 1159.9 | 43.2 | | | |
| FH (60°-80°) | 1028.9 | 38.3 | | | G1/1800 |
| FVH (80°-90°) | 16.3 | 0.6 | | | G1/100 |
| BL (0°-30°) | 100.9 | 3.8 | B0/110 | | |
| BM (30°-60°) | 151.2 | 5.6 | B0/220 | | |
| BH (60°-80°) | 64.0 | 2.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 |
| 2.5° | 326.4 | 324.3 | 326.4 | 329.1 | 326.4 | 328.4 | 327.7 | 329.8 | 327.0 | 327.0 | 329.1 |
| 5° | 305.1 | 308.5 | 309.9 | 313.3 | 316.8 | 322.9 | 327.0 | 327.0 | 331.2 | 333.2 | 336.0 |
| 7.5° | 297.6 | 292.1 | 297.6 | 300.3 | 303.7 | 314.0 | 320.2 | 322.9 | 328.4 | 336.0 | 340.1 |
| 10° | 286.6 | 290.7 | 290.7 | 299.6 | 304.4 | 310.6 | 321.6 | 323.6 | 336.0 | 343.5 | 347.6 |
| 12.5° | 285.9 | 285.9 | 289.3 | 295.5 | 305.1 | 316.8 | 330.5 | 326.4 | 339.4 | 353.1 | 360.0 |
| 15° | 288.0 | 292.8 | 292.8 | 301.0 | 308.5 | 325.0 | 336.6 | 337.3 | 355.8 | 369.6 | 375.7 |
| 17.5° | 296.9 | 294.8 | 297.6 | 302.4 | 314.0 | 329.8 | 349.0 | 351.0 | 372.3 | 390.8 | 399.7 |
| 20° | 315.4 | 318.8 | 314.7 | 312.0 | 316.8 | 337.3 | 362.0 | 366.1 | 390.1 | 407.9 | 416.9 |
| 22.5° | 384.6 | 381.9 | 365.4 | 346.2 | 338.0 | 347.6 | 374.4 | 384.0 | 412.1 | 433.3 | 440.9 |
| 25° | 462.8 | 458.0 | 438.8 | 410.0 | 372.3 | 368.2 | 399.0 | 399.0 | 439.5 | 462.8 | 460.7 |
| 27.5° | 536.8 | 535.5 | 512.9 | 482.7 | 429.2 | 399.7 | 418.9 | 426.5 | 470.3 | 489.5 | 480.6 |
| 30° | 612.3 | 613.6 | 593.1 | 556.7 | 500.5 | 450.5 | 447.0 | 453.2 | 493.7 | 523.8 | 505.3 |
| 32.5° | 700.0 | 687.7 | 673.3 | 623.2 | 571.8 | 515.6 | 483.4 | 480.6 | 519.7 | 547.1 | 522.4 |
| 35° | 778.2 | 770.6 | 754.9 | 709.6 | 650.7 | 583.5 | 538.2 | 531.4 | 552.6 | 589.0 | 562.2 |
| 37.5° | 846.8 | 839.2 | 818.6 | 788.5 | 742.5 | 667.8 | 604.0 | 593.8 | 602.7 | 641.1 | 608.8 |
| 40° | 905.7 | 907.8 | 902.3 | 872.8 | 830.3 | 762.4 | 689.1 | 672.6 | 665.1 | 699.3 | 663.0 |
| 42.5° | 948.2 | 968.1 | 969.5 | 933.1 | 898.9 | 861.8 | 779.6 | 766.5 | 748.7 | 777.5 | 752.1 |
| 45° | 1037.4 | 1026.4 | 1033.2 | 1020.2 | 982.5 | 977.0 | 883.8 | 876.2 | 851.6 | 861.2 | 834.4 |
| 47.5° | 1107.3 | 1105.2 | 1118.3 | 1097.0 | 1086.7 | 1087.4 | 1002.4 | 989.4 | 954.4 | 972.2 | 942.1 |
| 50° | 1147.7 | 1136.8 | 1184.1 | 1200.5 | 1198.5 | 1206.7 | 1122.4 | 1111.4 | 1077.8 | 1103.9 | 1039.4 |
| 52.5° | 1157.3 | 1177.2 | 1221.8 | 1281.4 | 1306.8 | 1324.0 | 1253.3 | 1249.2 | 1212.9 | 1229.3 | 1140.2 |
| 55° | 1181.3 | 1200.5 | 1226.6 | 1324.6 | 1418.6 | 1422.7 | 1382.2 | 1386.3 | 1354.1 | 1350.0 | 1236.2 |
| 57.5° | 1180.7 | 1176.5 | 1248.5 | 1362.3 | 1492.6 | 1551.6 | 1529.6 | 1509.8 | 1474.8 | 1434.3 | 1297.9 |
| 60° | 1137.5 | 1135.4 | 1210.1 | 1367.1 | 1533.1 | 1668.1 | 1677.1 | 1653.7 | 1566.0 | 1506.3 | 1370.6 |
| 62.5° | 1051.8 | 1060.0 | 1135.4 | 1326.0 | 1571.5 | 1710.0 | 1742.9 | 1727.1 | 1618.1 | 1554.3 | 1456.3 |
| 65° | 953.7 | 936.6 | 1024.3 | 1223.2 | 1485.1 | 1697.6 | 1768.9 | 1763.4 | 1679.8 | 1606.4 | 1535.1 |
| 67.5° | 765.2 | 772.7 | 839.9 | 1052.4 | 1337.7 | 1652.4 | 1829.9 | 1838.2 | 1729.2 | 1652.4 | 1559.1 |
| 70° | 484.7 | 498.5 | 568.4 | 760.4 | 1092.2 | 1509.8 | 1884.8 | 1908.8 | 1768.2 | 1648.3 | 1489.2 |
| 72.5° | 141.2 | 146.7 | 242.0 | 379.2 | 695.9 | 1210.8 | 1797.0 | 1809.4 | 1692.1 | 1496.0 | 1151.9 |
| 75° | 46.6 | 49.4 | 71.3 | 123.4 | 272.9 | 626.0 | 1327.4 | 1385.7 | 1346.6 | 1084.7 | 658.9 |
| 77.5° | 30.9 | 32.2 | 39.1 | 59.0 | 103.5 | 196.1 | 711.7 | 774.1 | 759.0 | 508.1 | 212.5 |
| 80° | 22.6 | 23.3 | 28.8 | 39.8 | 63.1 | 70.6 | 262.6 | 303.7 | 293.4 | 116.6 | 42.5 |
| 82.5° | 14.4 | 14.4 | 21.3 | 28.1 | 39.8 | 35.0 | 76.1 | 84.3 | 82.3 | 44.6 | 16.5 |
| 85° | 9.6 | 10.3 | 15.8 | 21.9 | 21.9 | 16.5 | 21.9 | 25.4 | 27.4 | 24.0 | 7.5 |
| 87.5° | 2.7 | 3.4 | 8.9 | 15.1 | 8.9 | 8.2 | 7.5 | 8.2 | 9.6 | 13.0 | 4.1 |
| 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: P676475
 CATALOG NUMBER: CCW-SA-1C-835-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 |
| 2.5° | 331.2 | 333.9 | 333.2 | 334.6 | 332.5 | 330.5 | 332.5 | 332.5 | 332.5 | 330.5 | 329.1 |
| 5° | 333.9 | 332.5 | 333.9 | 331.2 | 333.9 | 331.2 | 329.8 | 325.7 | 325.0 | 325.0 | 327.7 |
| 7.5° | 338.0 | 339.4 | 333.2 | 333.2 | 327.0 | 328.4 | 325.0 | 325.7 | 324.3 | 322.2 | 320.9 |
| 10° | 344.2 | 349.7 | 343.5 | 341.4 | 334.6 | 329.1 | 320.9 | 316.8 | 316.8 | 314.0 | 316.8 |
| 12.5° | 361.3 | 359.3 | 355.8 | 349.0 | 340.8 | 329.8 | 309.9 | 290.0 | 273.6 | 261.2 | 267.4 |
| 15° | 375.0 | 374.4 | 369.6 | 356.5 | 345.6 | 312.0 | 261.9 | 210.5 | 183.1 | 170.7 | 168.7 |
| 17.5° | 396.3 | 394.2 | 386.0 | 368.9 | 332.5 | 258.5 | 179.6 | 136.4 | 109.7 | 103.5 | 101.5 |
| 20° | 416.2 | 415.5 | 397.7 | 375.7 | 299.6 | 188.5 | 117.2 | 89.8 | 82.3 | 83.0 | 81.6 |
| 22.5° | 437.4 | 434.0 | 412.7 | 367.5 | 238.6 | 125.5 | 83.6 | 80.2 | 77.5 | 76.8 | 78.2 |
| 25° | 461.4 | 449.1 | 427.8 | 349.0 | 175.5 | 86.4 | 78.8 | 76.1 | 73.4 | 72.7 | 72.7 |
| 27.5° | 471.0 | 462.8 | 434.7 | 304.4 | 111.1 | 75.4 | 74.0 | 70.6 | 67.2 | 65.1 | 64.4 |
| 30° | 493.0 | 479.3 | 441.5 | 239.3 | 78.8 | 69.2 | 67.2 | 63.1 | 58.3 | 54.9 | 54.9 |
| 32.5° | 514.9 | 498.5 | 442.2 | 167.3 | 65.8 | 62.4 | 59.0 | 53.5 | 47.3 | 43.9 | 44.6 |
| 35° | 542.3 | 519.7 | 434.7 | 108.3 | 59.0 | 54.9 | 48.0 | 41.8 | 36.3 | 33.6 | 33.6 |
| 37.5° | 589.0 | 567.7 | 403.8 | 71.3 | 53.5 | 46.6 | 39.8 | 32.9 | 28.1 | 26.1 | 26.1 |
| 40° | 647.9 | 620.5 | 361.3 | 56.2 | 47.3 | 39.8 | 31.5 | 25.4 | 22.6 | 20.6 | 20.6 |
| 42.5° | 718.5 | 684.3 | 298.2 | 50.1 | 41.8 | 32.9 | 24.7 | 19.9 | 17.1 | 17.1 | 16.5 |
| 45° | 789.2 | 732.9 | 233.8 | 45.9 | 37.0 | 27.4 | 19.2 | 15.8 | 14.4 | 13.7 | 13.7 |
| 47.5° | 889.9 | 791.9 | 167.3 | 41.8 | 32.2 | 21.3 | 15.8 | 13.0 | 11.7 | 11.0 | 11.7 |
| 50° | 986.6 | 847.4 | 118.6 | 37.7 | 26.7 | 17.1 | 13.0 | 11.7 | 10.3 | 9.6 | 9.6 |
| 52.5° | 1071.6 | 885.8 | 83.0 | 32.9 | 22.6 | 14.4 | 11.7 | 10.3 | 9.6 | 8.9 | 8.9 |
| 55° | 1118.3 | 872.8 | 56.9 | 28.1 | 18.5 | 12.3 | 10.3 | 8.9 | 8.2 | 7.5 | 7.5 |
| 57.5° | 1166.3 | 836.5 | 43.2 | 23.3 | 15.1 | 11.7 | 9.6 | 8.2 | 7.5 | 6.9 | 6.9 |
| 60° | 1206.7 | 809.7 | 33.6 | 18.5 | 12.3 | 9.6 | 8.2 | 6.9 | 6.2 | 5.5 | 4.8 |
| 62.5° | 1208.8 | 756.2 | 24.7 | 13.7 | 9.6 | 8.2 | 6.9 | 5.5 | 3.4 | 2.7 | 2.1 |
| 65° | 1217.0 | 700.0 | 17.8 | 10.3 | 6.9 | 6.2 | 4.8 | 2.7 | 1.4 | 0.0 | 0.0 |
| 67.5° | 1188.2 | 633.5 | 14.4 | 7.5 | 4.8 | 3.4 | 2.1 | 0.7 | 0.0 | 0.0 | 0.0 |
| 70° | 1071.0 | 534.8 | 11.0 | 5.5 | 3.4 | 2.1 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 766.5 | 347.6 | 7.5 | 4.1 | 1.4 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 408.6 | 148.1 | 5.5 | 2.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 128.2 | 37.7 | 3.4 | 1.4 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 28.1 | 10.3 | 2.1 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 9.6 | 4.1 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 3.4 | 1.4 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.4 | 0.7 | 0.7 | 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 |

(END OF REPORT)