

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: P677548

Luminaire Tested: **CCW-SA-1-AMB-U-T1**

Issue Date: 04/26/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677548  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/26/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1-AMB-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @500mA w/  
T1 distribution lens  
Light Source: (16) 1620 CCT, 0 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

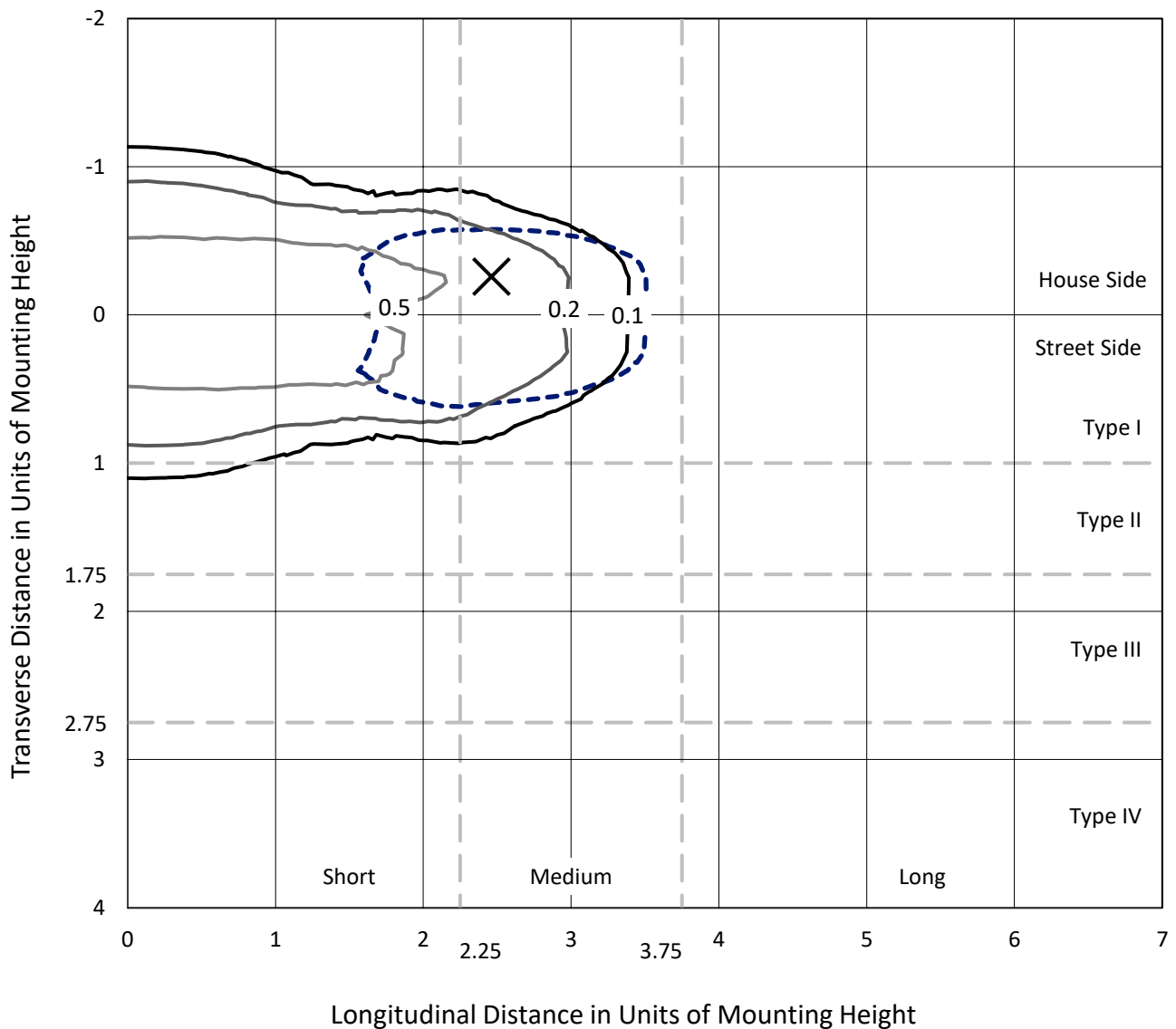
Lumens per Lamp: N/A  
Luminaire Lumens: 1159.9 lumens  
Efficiency: N/A  
Efficacy: 51.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 22.6  
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

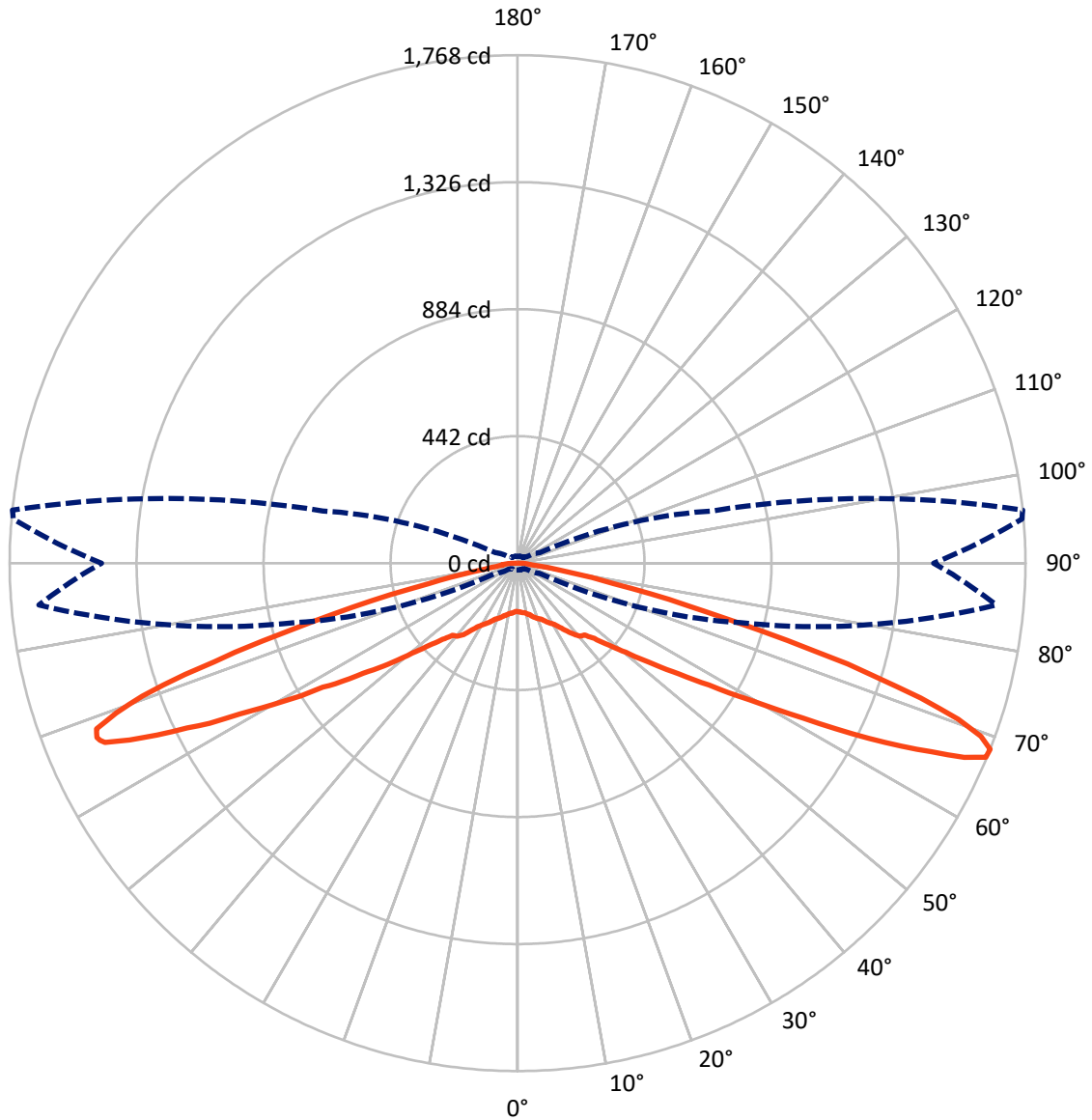
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 96-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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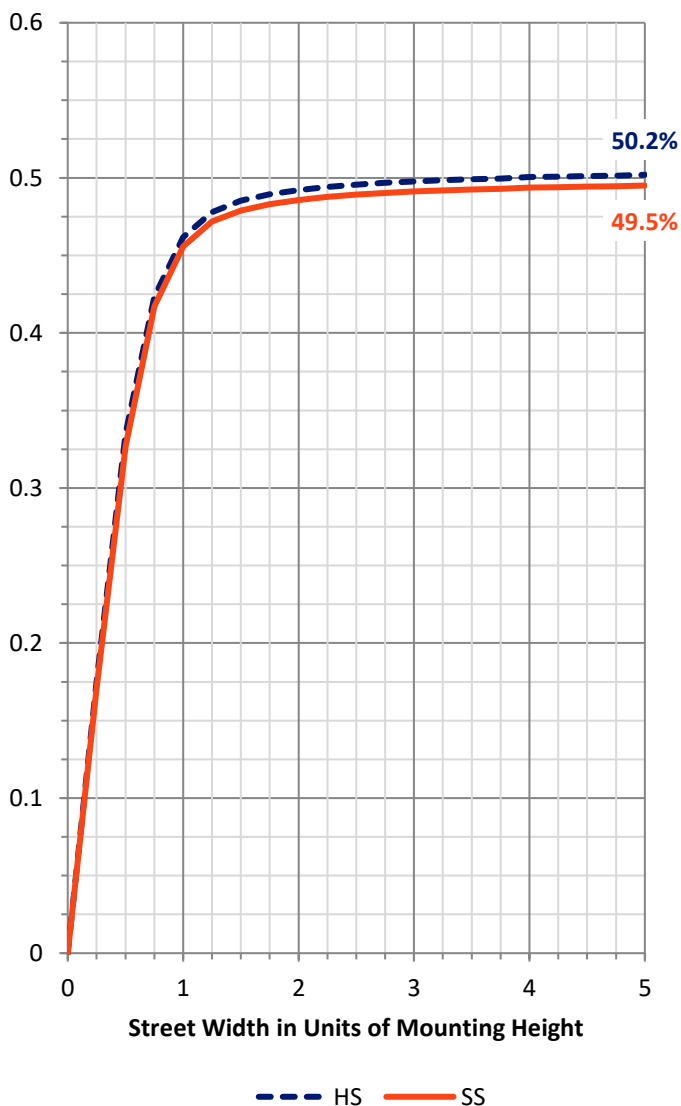
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 587.5    | 0.0    | 587.5  |
|                    | % Fixture | 50.6     | 0.0    | 50.6   |
| <b>Street Side</b> | Lumens    | 572.5    | 0.0    | 572.5  |
|                    | % Fixture | 49.4     | 0.0    | 49.4   |
| <b>Total</b>       | Lumens    | 1159.9   | 0.0    | 1159.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 17.2   | 1.5       |
| 10°-20°   | 57.0   | 4.9       |
| 20°-30°   | 98.2   | 8.5       |
| 30°-40°   | 139.8  | 12.1      |
| 40°-50°   | 180.8  | 15.6      |
| 50°-60°   | 226.8  | 19.6      |
| 60°-70°   | 289.9  | 25.0      |
| 70°-80°   | 135.8  | 11.7      |
| 80°-90°   | 14.3   | 1.2       |
| 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°    | 1159.9 | 100.0     |
| 0°-180°   | 1159.9 | 100.0     |



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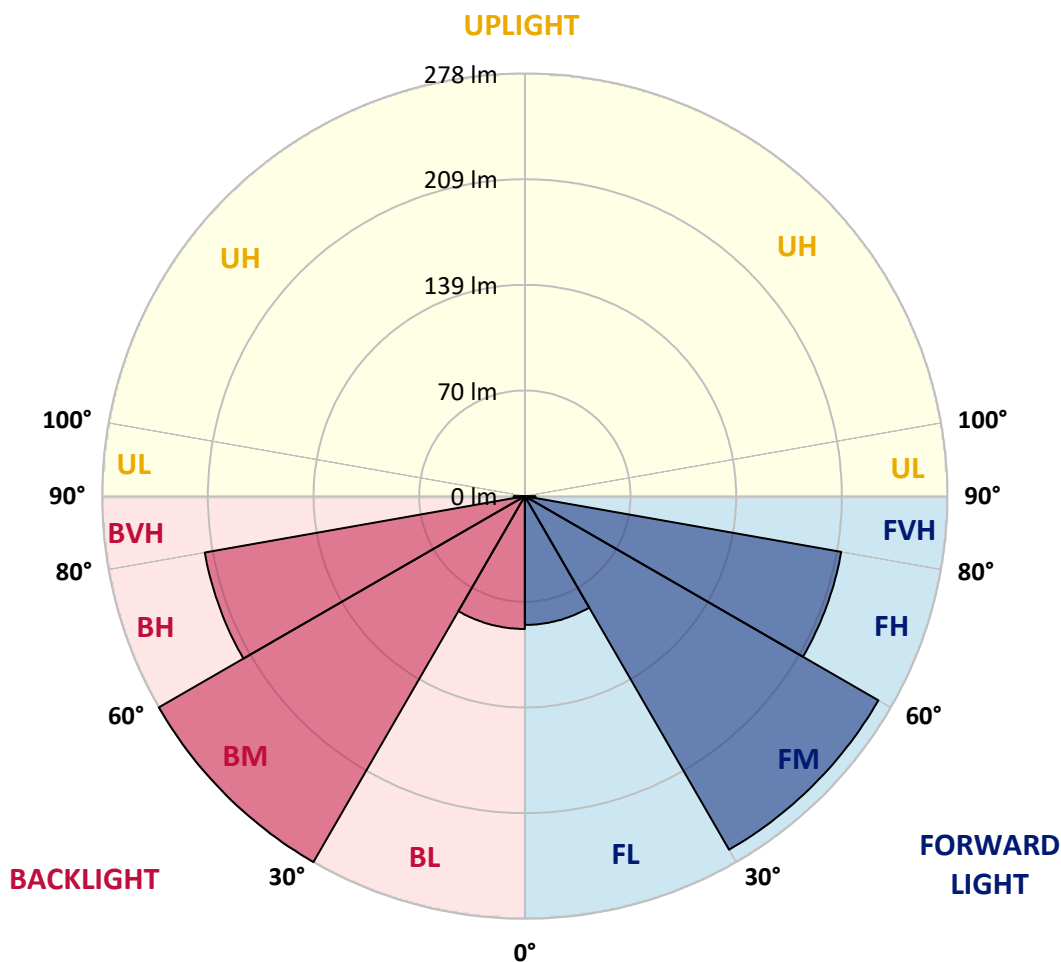
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 84.8   | 7.3       |                         |      |        |
| FM   | (30°-60°)   | 269.0  | 23.2      |                         |      |        |
| FH   | (60°-80°)   | 211.6  | 18.2      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 7.0    | 0.6       |                         |      | G0/10  |
| BL   | (0°-30°)    | 87.5   | 7.5       | B0/110                  |      |        |
| BM   | (30°-60°)   | 278.5  | 24.0      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 214.1  | 18.5      | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 7.4    | 0.6       |                         |      | 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 I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°    | 85°    | 90°    |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0°    | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0  | 169.0  | 169.0  |
| 2.5°  | 170.3 | 170.3 | 171.0 | 171.0 | 171.7 | 171.7 | 170.3 | 170.3 | 169.7  | 167.7  | 171.0  |
| 5°    | 177.7 | 175.7 | 177.0 | 176.3 | 177.0 | 175.0 | 173.0 | 172.3 | 172.3  | 172.3  | 171.0  |
| 7.5°  | 185.0 | 180.4 | 182.4 | 181.0 | 183.0 | 181.7 | 179.7 | 177.7 | 175.7  | 175.7  | 173.7  |
| 10°   | 187.0 | 186.4 | 189.7 | 190.4 | 189.7 | 189.7 | 185.7 | 182.4 | 181.0  | 178.4  | 178.4  |
| 12.5° | 191.0 | 189.7 | 192.4 | 195.7 | 197.7 | 199.1 | 195.7 | 193.0 | 187.0  | 183.7  | 183.0  |
| 15°   | 185.0 | 185.7 | 192.4 | 197.7 | 206.4 | 208.4 | 209.1 | 200.4 | 195.1  | 189.0  | 189.0  |
| 17.5° | 177.0 | 179.7 | 185.7 | 196.4 | 209.1 | 217.1 | 218.4 | 217.1 | 203.7  | 197.1  | 195.7  |
| 20°   | 170.3 | 171.0 | 175.0 | 191.0 | 205.7 | 224.4 | 229.8 | 227.1 | 215.1  | 203.1  | 201.7  |
| 22.5° | 164.3 | 164.3 | 172.3 | 186.4 | 201.7 | 223.1 | 239.1 | 239.1 | 223.8  | 209.1  | 206.4  |
| 25°   | 153.6 | 157.6 | 165.0 | 177.0 | 198.4 | 219.1 | 248.5 | 255.8 | 235.8  | 221.8  | 221.8  |
| 27.5° | 149.0 | 149.6 | 155.6 | 170.3 | 190.4 | 219.8 | 255.2 | 267.2 | 248.5  | 233.1  | 229.8  |
| 30°   | 141.6 | 141.6 | 148.3 | 161.7 | 183.7 | 215.8 | 258.5 | 282.6 | 265.9  | 244.5  | 239.8  |
| 32.5° | 133.6 | 132.3 | 141.6 | 155.0 | 176.3 | 211.1 | 263.2 | 299.9 | 287.2  | 257.8  | 253.8  |
| 35°   | 125.6 | 126.9 | 132.3 | 145.6 | 168.3 | 205.7 | 265.9 | 320.0 | 316.0  | 278.6  | 275.2  |
| 37.5° | 119.6 | 120.2 | 126.2 | 140.9 | 159.0 | 198.4 | 265.2 | 340.7 | 346.7  | 307.3  | 298.6  |
| 40°   | 110.9 | 112.2 | 118.9 | 134.3 | 154.3 | 191.0 | 261.9 | 356.0 | 367.4  | 325.3  | 321.3  |
| 42.5° | 100.2 | 102.9 | 110.2 | 126.9 | 147.0 | 181.7 | 253.2 | 374.1 | 400.8  | 331.3  | 326.0  |
| 45°   | 89.5  | 89.5  | 98.2  | 114.9 | 139.6 | 174.3 | 241.1 | 382.1 | 453.6  | 362.7  | 356.7  |
| 47.5° | 74.8  | 76.2  | 82.8  | 100.9 | 124.2 | 160.3 | 226.4 | 392.8 | 505.7  | 408.1  | 396.1  |
| 50°   | 60.1  | 60.8  | 67.5  | 83.5  | 104.9 | 140.9 | 211.8 | 394.8 | 587.2  | 471.6  | 451.6  |
| 52.5° | 47.4  | 48.1  | 52.8  | 64.8  | 84.2  | 116.9 | 189.7 | 390.1 | 669.3  | 561.1  | 528.4  |
| 55°   | 37.4  | 38.7  | 42.1  | 50.8  | 66.1  | 93.5  | 159.6 | 368.7 | 768.2  | 647.3  | 621.9  |
| 56°   | 35.4  | 36.1  | 38.7  | 45.4  | 58.8  | 84.2  | 144.3 | 354.0 | 810.9  | 699.4  | 663.3  |
| 57°   | 34.7  | 34.1  | 36.1  | 40.7  | 52.8  | 76.2  | 129.6 | 330.0 | 851.0  | 750.8  | 712.7  |
| 58°   | 32.1  | 32.1  | 34.1  | 38.1  | 46.1  | 67.5  | 116.2 | 308.6 | 891.1  | 793.6  | 759.5  |
| 59°   | 31.4  | 31.4  | 32.7  | 36.1  | 42.1  | 60.8  | 102.9 | 281.9 | 931.2  | 878.4  | 806.3  |
| 60°   | 30.1  | 30.7  | 30.7  | 34.1  | 38.7  | 53.4  | 91.5  | 255.8 | 966.6  | 945.2  | 872.4  |
| 61°   | 29.4  | 30.1  | 30.1  | 32.1  | 36.1  | 47.4  | 82.2  | 229.1 | 995.3  | 1026.0 | 923.2  |
| 62°   | 29.4  | 29.4  | 29.4  | 30.7  | 34.1  | 42.8  | 72.1  | 200.4 | 1012.0 | 1110.2 | 1000.0 |
| 63°   | 28.1  | 28.1  | 28.7  | 30.1  | 32.1  | 38.7  | 63.5  | 172.3 | 1024.0 | 1228.4 | 1073.5 |
| 64°   | 27.4  | 28.1  | 28.1  | 28.7  | 30.7  | 36.1  | 55.4  | 148.3 | 1025.4 | 1314.6 | 1141.6 |
| 65°   | 26.7  | 26.7  | 27.4  | 28.1  | 29.4  | 33.4  | 49.4  | 129.6 | 1010.7 | 1431.5 | 1231.8 |
| 66°   | 26.1  | 26.1  | 26.1  | 26.7  | 28.1  | 30.7  | 44.1  | 114.2 | 970.6  | 1541.0 | 1315.3 |
| 67°   | 25.4  | 24.7  | 25.4  | 26.7  | 27.4  | 28.7  | 40.7  | 98.2  | 901.1  | 1639.9 | 1382.7 |
| 67.5° | 24.7  | 24.7  | 24.7  | 26.1  | 26.7  | 28.1  | 38.7  | 89.5  | 861.0  | 1658.6 | 1419.5 |
| 68°   | 24.0  | 24.0  | 24.0  | 25.4  | 26.1  | 27.4  | 36.7  | 85.5  | 800.9  | 1672.6 | 1448.2 |
| 69°   | 22.7  | 22.7  | 23.4  | 24.0  | 24.7  | 26.1  | 34.1  | 75.5  | 692.7  | 1673.3 | 1462.9 |
| 70°   | 22.0  | 21.4  | 22.0  | 23.4  | 24.0  | 25.4  | 31.4  | 66.8  | 585.2  | 1592.5 | 1423.5 |
| 71°   | 21.4  | 20.7  | 21.4  | 22.0  | 22.7  | 24.0  | 28.7  | 59.5  | 483.6  | 1486.3 | 1366.7 |
| 72°   | 20.0  | 20.0  | 20.0  | 20.7  | 22.0  | 23.4  | 26.1  | 52.8  | 391.4  | 1313.3 | 1251.8 |
| 72.5° | 19.4  | 19.4  | 19.4  | 20.0  | 20.7  | 22.7  | 25.4  | 48.8  | 340.0  | 1195.7 | 1159.6 |
| 73°   | 19.4  | 18.7  | 18.7  | 20.0  | 20.0  | 22.0  | 24.7  | 46.1  | 309.3  | 1111.5 | 1088.8 |
| 74°   | 18.0  | 18.0  | 18.0  | 18.7  | 19.4  | 20.0  | 22.7  | 40.1  | 246.5  | 892.4  | 895.8  |
| 75°   | 16.7  | 16.7  | 16.7  | 17.4  | 18.0  | 19.4  | 21.4  | 34.7  | 185.7  | 720.8  | 709.4  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°   | 85°   | 90°   |
|-------|------|------|------|------|------|------|------|------|-------|-------|-------|
| 77.5° | 14.0 | 14.0 | 14.0 | 14.7 | 15.4 | 16.0 | 17.4 | 23.4 | 104.2 | 341.3 | 320.0 |
| 80°   | 10.7 | 11.4 | 11.4 | 12.0 | 12.0 | 12.0 | 14.0 | 16.7 | 48.1  | 122.9 | 118.9 |
| 82.5° | 8.7  | 9.4  | 8.7  | 9.4  | 9.4  | 8.7  | 10.0 | 11.4 | 21.4  | 54.8  | 91.5  |
| 85°   | 6.0  | 6.0  | 4.7  | 5.3  | 6.0  | 5.3  | 6.7  | 7.3  | 11.4  | 60.1  | 101.5 |
| 87.5° | 2.7  | 2.7  | 2.0  | 2.0  | 2.7  | 2.7  | 3.3  | 2.7  | 5.3   | 30.1  | 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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**CANDELA DISTRIBUTION (continued):**

|       | 95°    | 96°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 169.0  | 169.0  | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 |
| 2.5°  | 169.7  | 170.3  | 171.0 | 171.0 | 173.0 | 172.3 | 174.3 | 172.3 | 174.3 | 172.3 | 171.7 |
| 5°    | 172.3  | 173.0  | 174.3 | 173.0 | 176.3 | 177.7 | 177.7 | 179.7 | 179.0 | 178.4 | 180.4 |
| 7.5°  | 175.0  | 173.7  | 177.7 | 181.7 | 183.7 | 184.4 | 187.7 | 189.7 | 188.4 | 188.4 | 189.0 |
| 10°   | 180.4  | 179.7  | 181.0 | 185.7 | 191.7 | 194.4 | 195.7 | 198.4 | 197.7 | 197.7 | 197.7 |
| 12.5° | 184.4  | 183.7  | 188.4 | 193.7 | 201.7 | 204.4 | 207.7 | 205.1 | 200.4 | 198.4 | 198.4 |
| 15°   | 190.4  | 192.4  | 198.4 | 207.7 | 213.1 | 215.1 | 211.8 | 203.1 | 200.4 | 193.7 | 196.4 |
| 17.5° | 200.4  | 199.7  | 206.4 | 221.1 | 229.1 | 225.1 | 213.8 | 201.7 | 193.0 | 188.4 | 187.7 |
| 20°   | 205.1  | 206.4  | 217.8 | 234.5 | 236.5 | 229.1 | 215.8 | 198.4 | 187.0 | 180.4 | 180.4 |
| 22.5° | 209.1  | 211.8  | 228.5 | 247.8 | 247.8 | 229.8 | 210.4 | 191.0 | 181.0 | 174.3 | 176.3 |
| 25°   | 221.1  | 223.8  | 239.8 | 260.5 | 257.8 | 225.8 | 207.1 | 187.7 | 173.7 | 171.0 | 167.7 |
| 27.5° | 232.5  | 235.8  | 253.8 | 275.9 | 260.5 | 225.1 | 201.7 | 179.7 | 166.3 | 161.7 | 160.3 |
| 30°   | 243.1  | 245.8  | 269.2 | 289.2 | 267.2 | 221.1 | 193.0 | 173.0 | 161.0 | 156.3 | 155.0 |
| 32.5° | 259.8  | 264.5  | 289.9 | 309.9 | 267.9 | 219.1 | 186.4 | 167.0 | 154.3 | 146.3 | 147.6 |
| 35°   | 282.6  | 287.2  | 322.6 | 334.0 | 270.5 | 212.4 | 179.0 | 157.6 | 144.3 | 138.9 | 138.3 |
| 37.5° | 307.3  | 312.0  | 348.7 | 351.4 | 273.2 | 209.1 | 172.3 | 150.3 | 136.9 | 130.3 | 128.3 |
| 40°   | 330.0  | 334.7  | 384.8 | 376.1 | 269.9 | 201.7 | 163.0 | 142.3 | 126.9 | 120.2 | 118.2 |
| 42.5° | 336.0  | 341.3  | 418.2 | 399.5 | 263.9 | 188.4 | 152.3 | 130.3 | 113.6 | 107.5 | 105.5 |
| 45°   | 370.1  | 374.1  | 475.6 | 412.8 | 251.2 | 179.7 | 141.6 | 118.2 | 102.2 | 96.2  | 93.5  |
| 47.5° | 416.8  | 424.2  | 535.7 | 419.5 | 237.8 | 165.0 | 126.9 | 104.2 | 90.2  | 84.2  | 83.5  |
| 50°   | 472.9  | 488.3  | 615.9 | 411.5 | 215.1 | 147.0 | 110.2 | 90.2  | 75.5  | 70.8  | 69.5  |
| 52.5° | 565.8  | 571.8  | 694.0 | 398.1 | 191.0 | 124.9 | 92.9  | 73.5  | 61.5  | 55.4  | 54.8  |
| 55°   | 664.0  | 681.3  | 772.9 | 366.1 | 161.7 | 102.2 | 75.5  | 57.4  | 48.1  | 44.8  | 44.1  |
| 56°   | 708.1  | 736.1  | 814.9 | 344.7 | 147.6 | 94.9  | 67.5  | 51.4  | 44.1  | 41.4  | 40.7  |
| 57°   | 758.2  | 789.6  | 844.3 | 327.3 | 136.3 | 86.2  | 59.5  | 47.4  | 40.7  | 38.1  | 38.1  |
| 58°   | 818.3  | 864.4  | 875.1 | 300.6 | 122.2 | 76.8  | 54.8  | 43.4  | 37.4  | 35.4  | 34.7  |
| 59°   | 897.8  | 936.5  | 899.1 | 278.6 | 110.2 | 69.5  | 48.8  | 39.4  | 34.1  | 32.7  | 33.4  |
| 60°   | 982.6  | 1032.0 | 929.2 | 248.5 | 97.5  | 62.1  | 43.4  | 36.1  | 32.1  | 31.4  | 31.4  |
| 61°   | 1079.5 | 1130.2 | 935.9 | 222.4 | 89.5  | 55.4  | 40.1  | 33.4  | 31.4  | 30.7  | 30.7  |
| 62°   | 1183.0 | 1249.8 | 946.5 | 194.4 | 79.5  | 48.8  | 36.1  | 31.4  | 30.1  | 29.4  | 29.4  |
| 63°   | 1287.2 | 1366.7 | 961.9 | 172.3 | 70.1  | 43.4  | 34.1  | 30.7  | 28.7  | 28.1  | 28.1  |
| 64°   | 1414.8 | 1480.9 | 939.9 | 149.6 | 62.1  | 39.4  | 32.1  | 28.7  | 28.1  | 27.4  | 27.4  |
| 65°   | 1522.3 | 1583.8 | 919.8 | 130.9 | 55.4  | 36.1  | 29.4  | 28.1  | 27.4  | 26.7  | 26.7  |
| 66°   | 1631.2 | 1696.0 | 864.4 | 114.2 | 49.4  | 33.4  | 28.7  | 27.4  | 26.1  | 26.1  | 26.1  |
| 67°   | 1722.1 | 1764.8 | 780.9 | 101.5 | 44.1  | 30.7  | 27.4  | 26.1  | 25.4  | 25.4  | 25.4  |
| 67.5° | 1745.5 | 1766.8 | 755.5 | 95.5  | 42.1  | 30.1  | 27.4  | 26.1  | 24.7  | 24.7  | 25.4  |
| 68°   | 1762.2 | 1768.2 | 702.1 | 87.5  | 39.4  | 28.7  | 26.7  | 25.4  | 24.7  | 24.7  | 24.7  |
| 69°   | 1719.4 | 1721.4 | 610.5 | 77.5  | 36.7  | 26.7  | 25.4  | 24.7  | 24.0  | 23.4  | 24.0  |
| 70°   | 1660.6 | 1627.2 | 505.0 | 66.8  | 32.7  | 26.1  | 24.0  | 24.0  | 23.4  | 22.7  | 22.7  |
| 71°   | 1523.0 | 1479.6 | 423.5 | 58.1  | 29.4  | 24.7  | 23.4  | 22.7  | 22.0  | 22.0  | 22.0  |
| 72°   | 1334.6 | 1291.2 | 337.3 | 48.8  | 26.7  | 23.4  | 22.0  | 22.0  | 21.4  | 21.4  | 21.4  |
| 72.5° | 1237.1 | 1201.7 | 294.6 | 46.8  | 26.1  | 22.7  | 21.4  | 21.4  | 20.7  | 20.7  | 20.7  |
| 73°   | 1148.3 | 1083.5 | 268.5 | 43.4  | 25.4  | 22.0  | 21.4  | 20.7  | 20.0  | 20.0  | 20.0  |
| 74°   | 910.5  | 871.1  | 213.1 | 38.1  | 23.4  | 21.4  | 20.7  | 20.0  | 19.4  | 19.4  | 19.4  |
| 75°   | 700.7  | 676.7  | 165.0 | 34.1  | 22.0  | 20.0  | 19.4  | 18.7  | 18.0  | 18.0  | 18.0  |



REPORT NUMBER: P677548  
 CATALOG NUMBER: CCW-SA-1-AMB-U-T1

**CANDELA DISTRIBUTION (continued):**

|       | 95°   | 96°   | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 77.5° | 345.3 | 341.3 | 94.2 | 25.4 | 18.0 | 16.7 | 16.7 | 16.7 | 16.0 | 15.4 | 16.0 |
| 80°   | 142.9 | 147.6 | 54.1 | 18.7 | 14.7 | 13.4 | 13.4 | 14.0 | 13.4 | 12.7 | 12.7 |
| 82.5° | 50.8  | 48.8  | 27.4 | 13.4 | 10.7 | 10.0 | 10.7 | 10.7 | 10.0 | 10.0 | 9.4  |
| 85°   | 44.1  | 30.7  | 14.0 | 8.7  | 7.3  | 6.7  | 7.3  | 7.3  | 6.0  | 8.0  | 7.3  |
| 87.5° | 23.4  | 17.4  | 6.7  | 3.3  | 4.0  | 3.3  | 3.3  | 3.3  | 3.3  | 4.0  | 4.0  |
| 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)