

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: P683310

Luminaire Tested: **CCP-SA-1-AMB-U-AFL-HSS**

Issue Date: 04/26/2023



Test Information

Test Method: LM-79-08
Report Number: P683310
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/26/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1-AMB-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @500mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 1620 CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

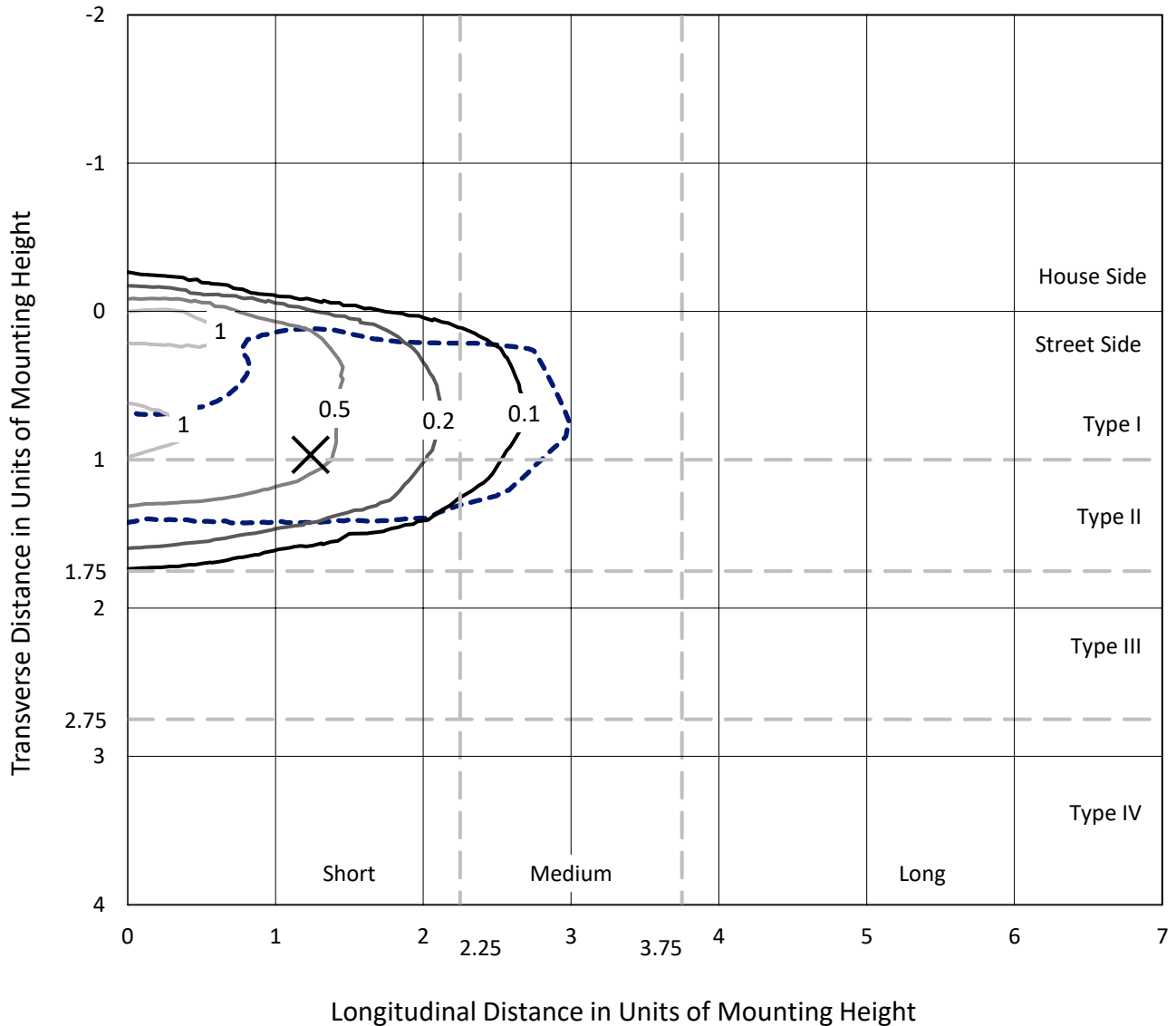
Lumens per Lamp: N/A
Luminaire Lumens: 960.4 lumens
Efficiency: N/A
Efficacy: 42.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

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

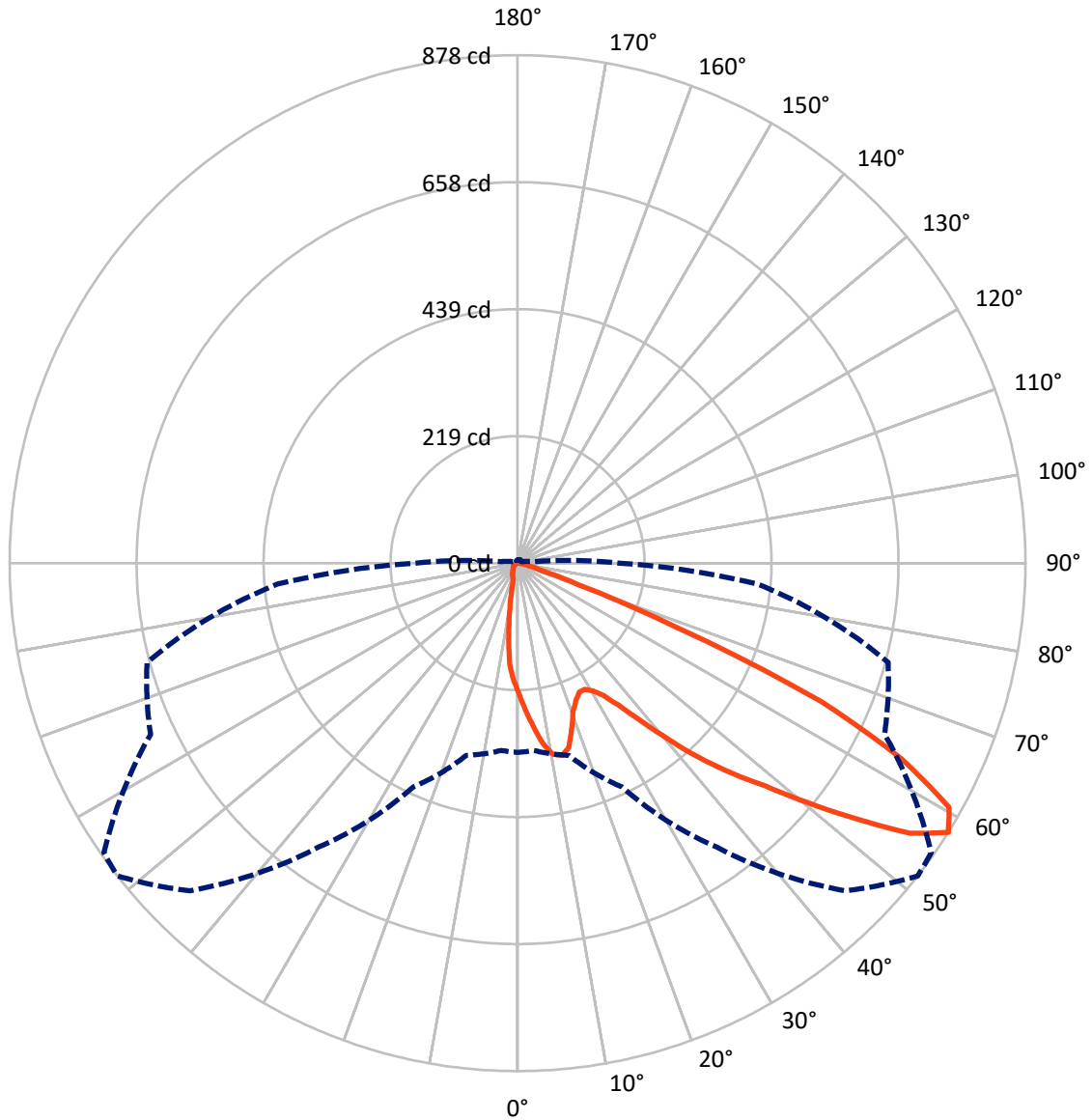
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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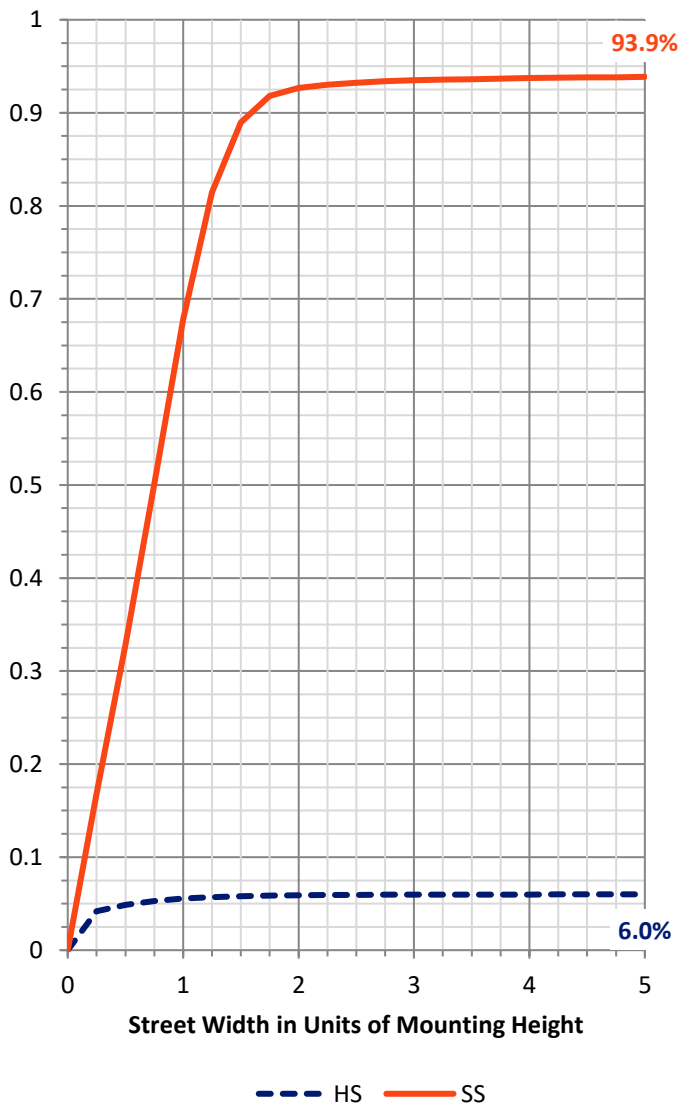
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|-------|
| House Side | Lumens | 57.9 | 0.0 | 57.9 |
| | % Fixture | 6.0 | 0.0 | 6.0 |
| Street Side | Lumens | 902.5 | 0.0 | 902.5 |
| | % Fixture | 94.0 | 0.0 | 94.0 |
| Total | Lumens | 960.4 | 0.0 | 960.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 20.5 | 2.1 |
| 10°-20° | 49.6 | 5.2 |
| 20°-30° | 73.4 | 7.6 |
| 30°-40° | 125.3 | 13.0 |
| 40°-50° | 214.9 | 22.4 |
| 50°-60° | 267.8 | 27.9 |
| 60°-70° | 168.5 | 17.5 |
| 70°-80° | 37.6 | 3.9 |
| 80°-90° | 2.8 | 0.3 |
| 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° | 960.4 | 100.0 |
| 0°-180° | 960.4 | 100.0 |

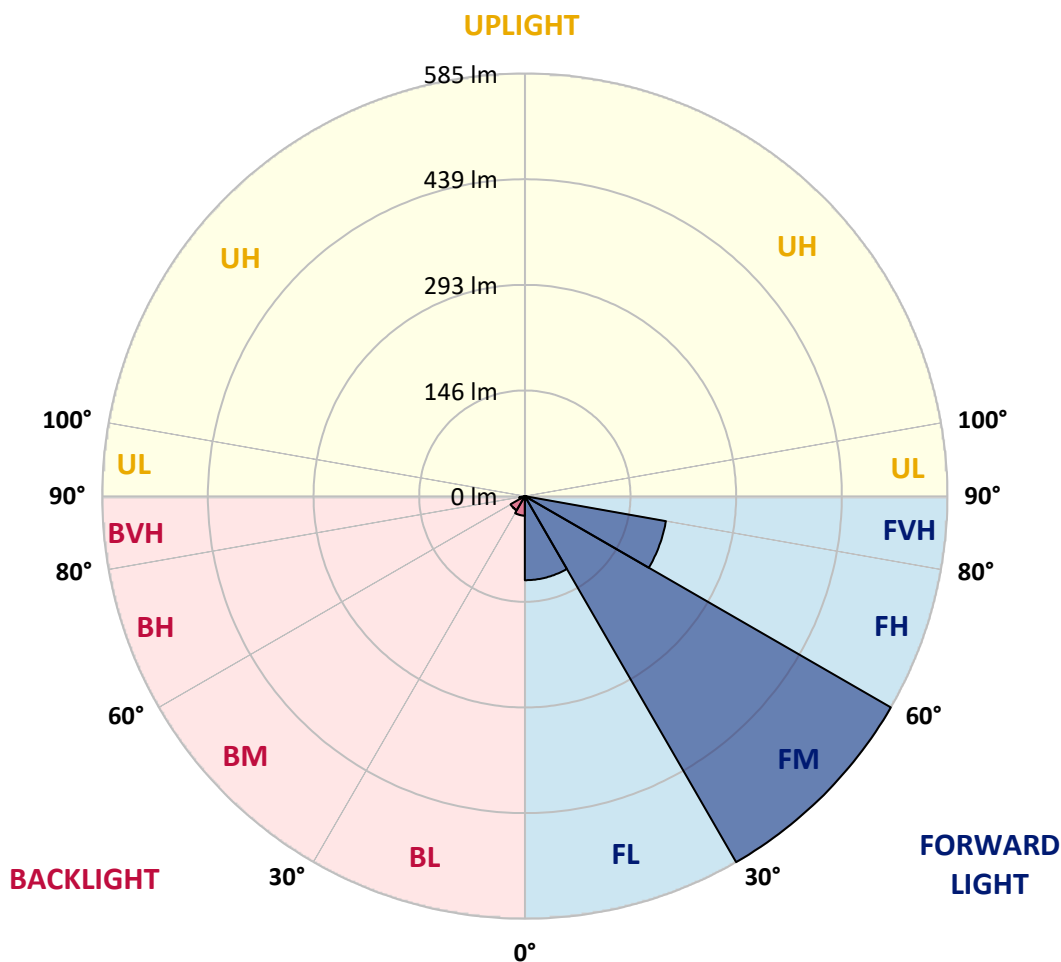


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 116.5 | 12.1 | | | |
| FM (30°-60°) | 585.3 | 60.9 | | | |
| FH (60°-80°) | 198.4 | 20.7 | | | G0/660 |
| FVH (80°-90°) | 2.2 | 0.2 | | | G0/10 |
| BL (0°-30°) | 27.0 | 2.8 | B0/110 | | |
| BM (30°-60°) | 22.7 | 2.4 | B0/220 | | |
| BH (60°-80°) | 7.7 | 0.8 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.5 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 223.9 | 223.9 | 223.9 | 223.9 | 223.9 | 223.9 | 223.9 | 223.9 | 223.9 | 223.9 | 223.9 |
| 2.5° | 272.9 | 266.9 | 262.9 | 262.9 | 257.9 | 255.9 | 252.9 | 251.9 | 244.9 | 234.9 | 228.9 |
| 5° | 310.9 | 307.9 | 303.9 | 303.9 | 296.9 | 291.9 | 282.9 | 280.9 | 270.9 | 255.9 | 241.9 |
| 7.5° | 310.9 | 309.9 | 311.9 | 316.9 | 321.9 | 322.9 | 314.9 | 312.9 | 296.9 | 275.9 | 254.9 |
| 10° | 268.9 | 269.9 | 278.9 | 294.9 | 313.9 | 330.9 | 335.9 | 337.9 | 325.9 | 297.9 | 268.9 |
| 12.5° | 223.9 | 222.9 | 230.9 | 251.9 | 278.9 | 318.9 | 340.9 | 346.9 | 351.9 | 321.9 | 284.9 |
| 15° | 200.9 | 199.9 | 203.9 | 216.9 | 243.9 | 289.9 | 330.9 | 346.9 | 372.8 | 344.9 | 299.9 |
| 17.5° | 187.9 | 187.9 | 190.9 | 200.9 | 217.9 | 259.9 | 301.9 | 326.9 | 381.8 | 365.8 | 311.9 |
| 20° | 181.9 | 181.9 | 182.9 | 191.9 | 204.9 | 235.9 | 273.9 | 299.9 | 382.8 | 378.8 | 316.9 |
| 22.5° | 193.9 | 192.9 | 189.9 | 191.9 | 201.9 | 224.9 | 257.9 | 278.9 | 374.8 | 389.8 | 317.9 |
| 25° | 225.9 | 223.9 | 214.9 | 208.9 | 209.9 | 222.9 | 246.9 | 265.9 | 359.9 | 394.8 | 314.9 |
| 27.5° | 267.9 | 261.9 | 252.9 | 237.9 | 227.9 | 229.9 | 246.9 | 259.9 | 345.9 | 399.8 | 311.9 |
| 30° | 320.9 | 319.9 | 299.9 | 275.9 | 256.9 | 249.9 | 255.9 | 264.9 | 335.9 | 406.8 | 312.9 |
| 32.5° | 386.8 | 382.8 | 359.9 | 335.9 | 299.9 | 274.9 | 272.9 | 277.9 | 334.9 | 413.8 | 313.9 |
| 35° | 453.8 | 442.8 | 421.8 | 391.8 | 351.9 | 311.9 | 301.9 | 301.9 | 338.9 | 425.8 | 318.9 |
| 37.5° | 513.8 | 505.8 | 478.8 | 449.8 | 410.8 | 366.8 | 344.9 | 336.9 | 356.9 | 442.8 | 326.9 |
| 40° | 561.8 | 550.8 | 529.8 | 507.8 | 466.8 | 422.8 | 398.8 | 388.8 | 382.8 | 467.8 | 340.9 |
| 42.5° | 600.8 | 590.8 | 576.8 | 565.8 | 520.8 | 479.8 | 458.8 | 446.8 | 425.8 | 501.8 | 359.9 |
| 45° | 625.7 | 612.7 | 608.7 | 612.7 | 582.8 | 535.8 | 516.8 | 505.8 | 488.8 | 542.8 | 382.8 |
| 47.5° | 623.7 | 609.7 | 616.7 | 646.7 | 637.7 | 602.8 | 574.8 | 570.8 | 552.8 | 595.8 | 406.8 |
| 50° | 562.8 | 551.8 | 594.8 | 657.7 | 685.7 | 674.7 | 650.7 | 641.7 | 613.7 | 650.7 | 430.8 |
| 52.5° | 506.8 | 494.8 | 526.8 | 632.7 | 705.7 | 742.7 | 734.7 | 720.7 | 654.7 | 687.7 | 441.8 |
| 55° | 438.8 | 423.8 | 452.8 | 550.8 | 687.7 | 793.7 | 823.7 | 805.7 | 684.7 | 688.7 | 430.8 |
| 57.5° | 326.9 | 324.9 | 343.9 | 426.8 | 598.8 | 800.7 | 877.6 | 872.6 | 699.7 | 662.7 | 415.8 |
| 60° | 177.9 | 167.9 | 195.9 | 270.9 | 428.8 | 710.7 | 856.6 | 873.6 | 690.7 | 632.7 | 412.8 |
| 62.5° | 78.0 | 79.0 | 89.0 | 126.9 | 223.9 | 515.8 | 744.7 | 805.7 | 697.7 | 623.7 | 420.8 |
| 65° | 46.0 | 44.0 | 44.0 | 53.0 | 96.0 | 263.9 | 576.8 | 671.7 | 708.7 | 627.7 | 433.8 |
| 67.5° | 36.0 | 35.0 | 33.0 | 34.0 | 43.0 | 104.0 | 297.9 | 459.8 | 651.7 | 639.7 | 449.8 |
| 70° | 28.0 | 28.0 | 27.0 | 26.0 | 29.0 | 44.0 | 112.0 | 205.9 | 504.8 | 610.7 | 432.8 |
| 72.5° | 21.0 | 22.0 | 22.0 | 21.0 | 22.0 | 27.0 | 43.0 | 69.0 | 245.9 | 412.8 | 244.9 |
| 75° | 16.0 | 16.0 | 18.0 | 17.0 | 17.0 | 18.0 | 25.0 | 28.0 | 59.0 | 101.0 | 49.0 |
| 77.5° | 13.0 | 14.0 | 14.0 | 13.0 | 12.0 | 11.0 | 15.0 | 18.0 | 22.0 | 21.0 | 15.0 |
| 80° | 10.0 | 10.0 | 10.0 | 10.0 | 9.0 | 7.0 | 7.0 | 8.0 | 11.0 | 10.0 | 8.0 |
| 82.5° | 8.0 | 8.0 | 8.0 | 9.0 | 7.0 | 5.0 | 5.0 | 5.0 | 6.0 | 6.0 | 5.0 |
| 85° | 2.0 | 3.0 | 5.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 3.0 |
| 87.5° | 1.0 | 1.0 | 2.0 | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 223.9 | 223.9 | 223.9 | 223.9 | 223.9 | 223.9 | 223.9 | 223.9 | 223.9 | 223.9 | 223.9 |
| 2.5° | 226.9 | 221.9 | 214.9 | 210.9 | 202.9 | 196.9 | 190.9 | 187.9 | 183.9 | 183.9 | 182.9 |
| 5° | 235.9 | 225.9 | 211.9 | 198.9 | 180.9 | 159.9 | 140.9 | 125.9 | 114.0 | 111.0 | 109.0 |
| 7.5° | 244.9 | 230.9 | 209.9 | 179.9 | 135.9 | 100.0 | 74.0 | 63.0 | 55.0 | 53.0 | 52.0 |
| 10° | 254.9 | 237.9 | 203.9 | 143.9 | 88.0 | 60.0 | 41.0 | 32.0 | 30.0 | 29.0 | 29.0 |
| 12.5° | 265.9 | 246.9 | 184.9 | 103.0 | 57.0 | 32.0 | 28.0 | 27.0 | 26.0 | 26.0 | 26.0 |
| 15° | 273.9 | 247.9 | 158.9 | 74.0 | 33.0 | 27.0 | 26.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| 17.5° | 279.9 | 244.9 | 127.9 | 51.0 | 28.0 | 25.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 |
| 20° | 276.9 | 231.9 | 97.0 | 33.0 | 25.0 | 23.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 |
| 22.5° | 270.9 | 214.9 | 72.0 | 27.0 | 23.0 | 22.0 | 21.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| 25° | 262.9 | 190.9 | 53.0 | 24.0 | 21.0 | 20.0 | 19.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 27.5° | 251.9 | 165.9 | 36.0 | 21.0 | 19.0 | 18.0 | 17.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| 30° | 240.9 | 139.9 | 26.0 | 18.0 | 17.0 | 16.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| 32.5° | 230.9 | 115.0 | 22.0 | 17.0 | 15.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |
| 35° | 223.9 | 95.0 | 19.0 | 15.0 | 14.0 | 13.0 | 13.0 | 13.0 | 14.0 | 14.0 | 14.0 |
| 37.5° | 216.9 | 81.0 | 17.0 | 14.0 | 13.0 | 13.0 | 12.0 | 13.0 | 14.0 | 14.0 | 14.0 |
| 40° | 210.9 | 70.0 | 16.0 | 13.0 | 12.0 | 12.0 | 12.0 | 13.0 | 13.0 | 14.0 | 14.0 |
| 42.5° | 204.9 | 60.0 | 15.0 | 13.0 | 12.0 | 11.0 | 11.0 | 12.0 | 13.0 | 13.0 | 13.0 |
| 45° | 200.9 | 50.0 | 14.0 | 12.0 | 11.0 | 10.0 | 10.0 | 11.0 | 11.0 | 11.0 | 12.0 |
| 47.5° | 196.9 | 40.0 | 13.0 | 11.0 | 10.0 | 9.0 | 9.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| 50° | 193.9 | 35.0 | 12.0 | 10.0 | 9.0 | 8.0 | 9.0 | 9.0 | 9.0 | 10.0 | 10.0 |
| 52.5° | 188.9 | 32.0 | 11.0 | 9.0 | 8.0 | 8.0 | 8.0 | 8.0 | 9.0 | 9.0 | 9.0 |
| 55° | 177.9 | 30.0 | 10.0 | 8.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 6.0 |
| 57.5° | 176.9 | 28.0 | 9.0 | 7.0 | 7.0 | 7.0 | 7.0 | 6.0 | 5.0 | 5.0 | 5.0 |
| 60° | 180.9 | 27.0 | 9.0 | 7.0 | 6.0 | 6.0 | 6.0 | 5.0 | 4.0 | 4.0 | 4.0 |
| 62.5° | 191.9 | 26.0 | 9.0 | 6.0 | 6.0 | 5.0 | 5.0 | 4.0 | 3.0 | 3.0 | 2.0 |
| 65° | 205.9 | 25.0 | 9.0 | 5.0 | 5.0 | 5.0 | 4.0 | 3.0 | 2.0 | 2.0 | 1.0 |
| 67.5° | 205.9 | 21.0 | 8.0 | 5.0 | 5.0 | 4.0 | 3.0 | 2.0 | 1.0 | 1.0 | 1.0 |
| 70° | 174.9 | 17.0 | 7.0 | 4.0 | 4.0 | 3.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 72.5° | 77.0 | 12.0 | 7.0 | 4.0 | 4.0 | 3.0 | 2.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| 75° | 15.0 | 8.0 | 5.0 | 4.0 | 3.0 | 2.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 7.0 | 7.0 | 4.0 | 3.0 | 3.0 | 2.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 80° | 4.0 | 5.0 | 3.0 | 3.0 | 2.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 3.0 | 4.0 | 3.0 | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.0 | 3.0 | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 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)