

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: STREETWORKS

Report Number: P595956

Luminaire Tested: **PMM-SA1A-AMB-U-T3-HSS**

Issue Date: 4/29/2022

Test Information

Test Method: LM-79-08
Report Number: P595956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-400-12)
Test Lab: INNOVATIONS CENTER
Issue Date: 4/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1A-AMB-U-T3-HSS
Description: POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH
AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 1549K CCT, -21.5 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 654 lumens
Efficiency: N/A
Efficacy: 31.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G0

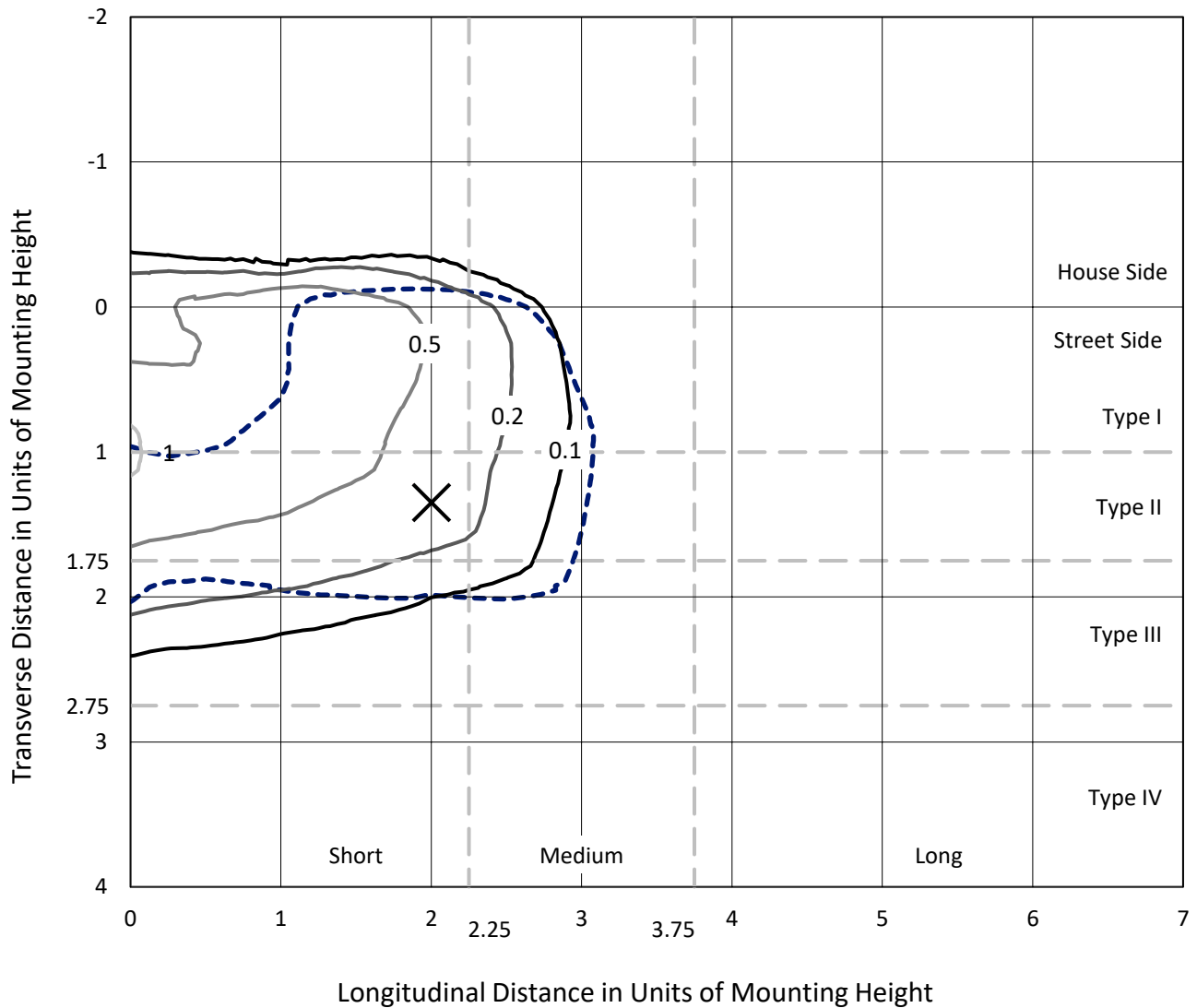
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

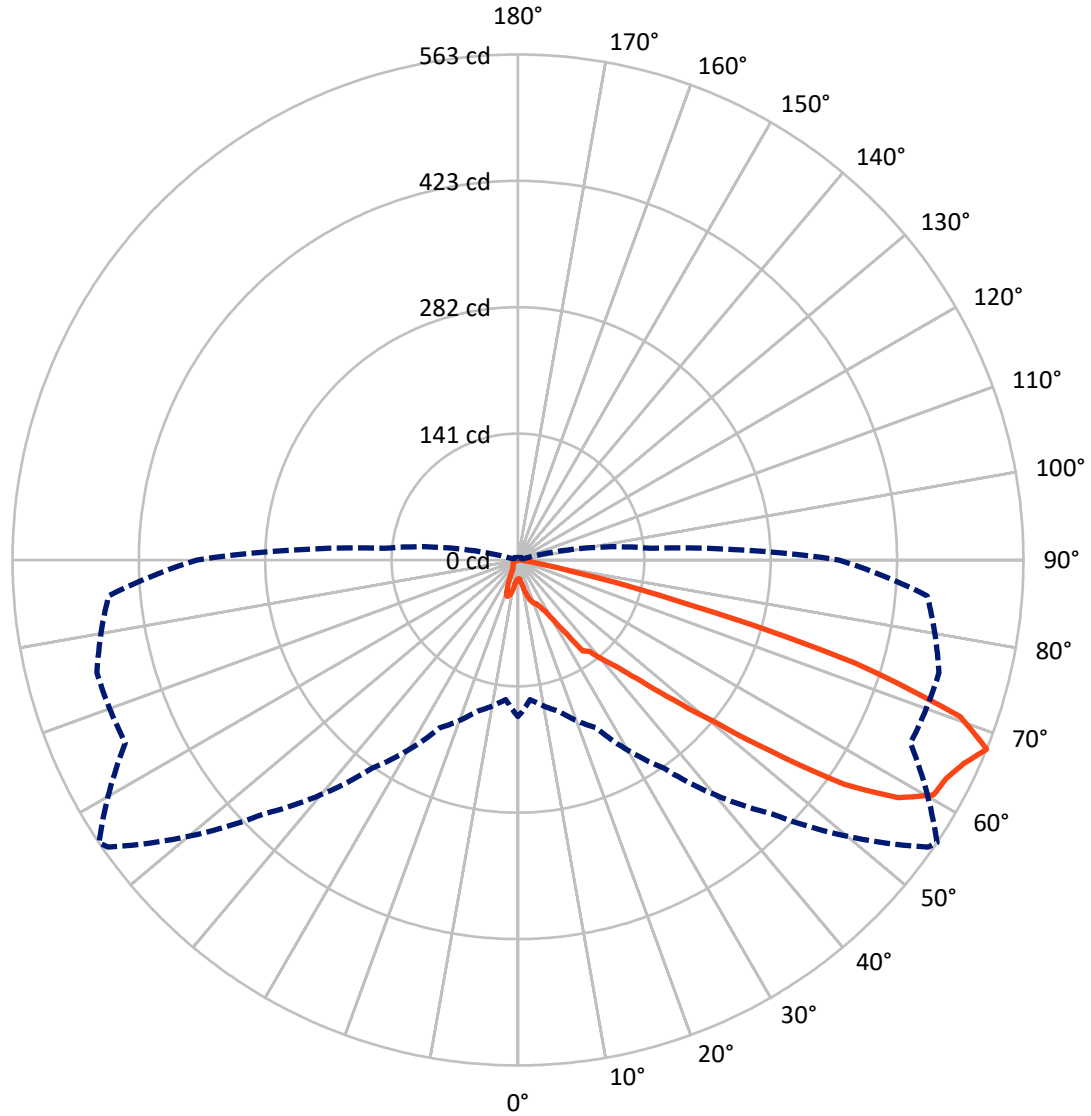
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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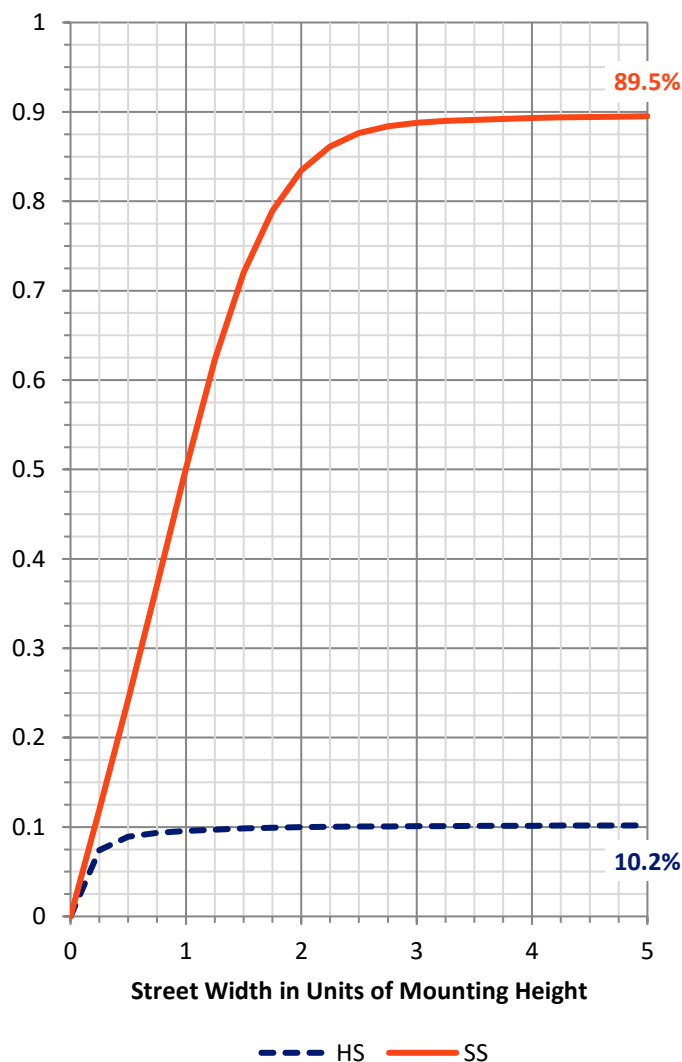
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|-------|
| House Side | Lumens | 67.5 | 0.0 | 67.5 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 586.6 | 0.0 | 586.6 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 654.0 | 0.0 | 654.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2.7 | 0.4 |
| 10°-20° | 11.0 | 1.7 |
| 20°-30° | 24.0 | 3.7 |
| 30°-40° | 50.8 | 7.8 |
| 40°-50° | 102.9 | 15.7 |
| 50°-60° | 197.1 | 30.1 |
| 60°-70° | 204.9 | 31.3 |
| 70°-80° | 57.5 | 8.8 |
| 80°-90° | 3.1 | 0.5 |
| 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° | 654.0 | 100.0 |
| 0°-180° | 654.0 | 100.0 |

Coefficient of Utilization

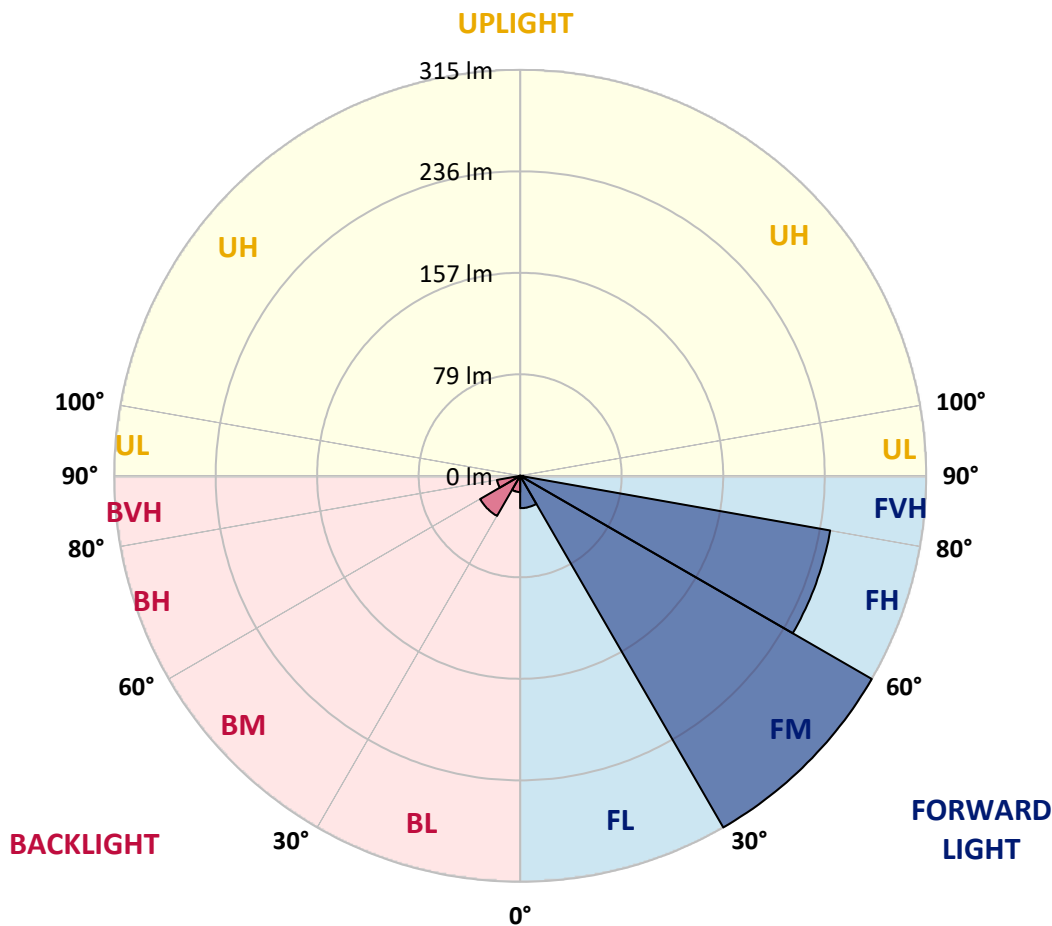


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 25.1 | 3.8 | | | |
| FM (30°-60°) | 314.9 | 48.1 | | | |
| FH (60°-80°) | 244.1 | 37.3 | | | G0/660 |
| FVH (80°-90°) | 2.5 | 0.4 | | | G0/10 |
| BL (0°-30°) | 12.6 | 1.9 | B0/110 | | |
| BM (30°-60°) | 35.9 | 5.5 | B0/220 | | |
| BH (60°-80°) | 18.3 | 2.8 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.7 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 |
| 2.5° | 26.1 | 23.7 | 22.8 | 20.4 | 20.1 | 21.0 | 21.3 | 21.3 | 21.3 | 23.4 | 24.6 |
| 5° | 28.2 | 25.5 | 25.5 | 23.1 | 19.8 | 19.8 | 21.3 | 21.6 | 24.9 | 29.1 | 30.9 |
| 7.5° | 30.9 | 28.5 | 28.2 | 25.2 | 22.5 | 22.5 | 25.2 | 25.2 | 30.0 | 34.5 | 36.9 |
| 10° | 31.5 | 30.3 | 29.1 | 26.7 | 27.3 | 29.1 | 29.7 | 29.4 | 32.7 | 38.7 | 41.4 |
| 12.5° | 32.7 | 32.4 | 33.3 | 32.4 | 33.6 | 36.0 | 37.2 | 37.5 | 41.4 | 45.6 | 45.9 |
| 15° | 35.7 | 36.0 | 36.0 | 36.9 | 37.8 | 40.8 | 42.9 | 43.5 | 48.0 | 53.0 | 53.3 |
| 17.5° | 42.9 | 44.1 | 42.0 | 42.0 | 42.9 | 44.7 | 48.0 | 48.3 | 53.3 | 60.8 | 62.6 |
| 20° | 55.1 | 55.1 | 51.5 | 47.1 | 47.4 | 48.0 | 51.2 | 51.5 | 56.3 | 66.5 | 68.9 |
| 22.5° | 77.0 | 74.9 | 65.3 | 57.2 | 52.4 | 50.6 | 53.3 | 53.0 | 59.9 | 70.4 | 75.8 |
| 25° | 96.5 | 95.3 | 85.1 | 72.8 | 61.7 | 56.9 | 57.2 | 58.4 | 67.1 | 78.2 | 81.2 |
| 27.5° | 119.3 | 119.3 | 104.0 | 95.0 | 77.6 | 63.8 | 64.1 | 64.4 | 75.2 | 82.7 | 89.3 |
| 30° | 136.4 | 133.1 | 117.8 | 114.2 | 99.8 | 81.8 | 77.0 | 77.3 | 83.3 | 95.3 | 101.6 |
| 32.5° | 154.3 | 153.1 | 129.2 | 125.0 | 116.0 | 105.8 | 95.6 | 94.4 | 101.9 | 119.0 | 117.2 |
| 35° | 172.3 | 168.7 | 152.8 | 142.1 | 125.9 | 119.9 | 124.1 | 124.4 | 136.4 | 141.5 | 125.3 |
| 37.5° | 194.8 | 193.0 | 172.6 | 158.8 | 147.7 | 135.5 | 131.6 | 129.2 | 134.9 | 143.6 | 142.4 |
| 40° | 226.3 | 216.4 | 193.3 | 178.6 | 163.3 | 160.0 | 144.8 | 145.7 | 143.0 | 161.8 | 167.8 |
| 42.5° | 258.0 | 249.9 | 223.0 | 207.4 | 184.9 | 175.0 | 163.9 | 164.2 | 164.8 | 188.5 | 194.5 |
| 45° | 295.5 | 280.2 | 250.8 | 241.6 | 214.0 | 203.2 | 198.1 | 192.1 | 195.7 | 225.4 | 232.6 |
| 47.5° | 337.2 | 318.9 | 292.2 | 279.0 | 254.7 | 253.8 | 233.2 | 232.6 | 238.3 | 284.1 | 285.3 |
| 50° | 375.8 | 353.9 | 329.1 | 306.0 | 303.0 | 316.8 | 289.2 | 282.9 | 291.0 | 352.7 | 353.6 |
| 52.5° | 396.5 | 368.3 | 347.6 | 342.5 | 357.8 | 362.6 | 362.9 | 355.1 | 360.5 | 419.9 | 416.6 |
| 55° | 397.1 | 371.6 | 354.2 | 362.9 | 403.4 | 418.1 | 439.9 | 441.7 | 440.2 | 478.9 | 469.3 |
| 57.5° | 380.0 | 353.0 | 349.4 | 364.7 | 413.0 | 454.3 | 495.4 | 499.9 | 493.6 | 520.6 | 509.8 |
| 60° | 336.6 | 312.0 | 318.6 | 348.2 | 411.5 | 453.1 | 526.6 | 532.0 | 512.2 | 543.6 | 544.2 |
| 62.5° | 306.3 | 276.9 | 284.4 | 315.9 | 391.7 | 449.2 | 539.1 | 535.9 | 502.0 | 541.2 | 550.2 |
| 65° | 254.1 | 229.9 | 235.0 | 276.9 | 357.5 | 436.1 | 546.3 | 546.3 | 478.0 | 517.0 | 526.6 |
| 67.5° | 174.7 | 156.1 | 174.4 | 206.5 | 283.2 | 400.1 | 558.0 | 563.4 | 482.8 | 485.8 | 457.9 |
| 70° | 84.8 | 76.4 | 92.6 | 120.5 | 186.4 | 302.7 | 518.2 | 522.7 | 437.0 | 410.9 | 325.8 |
| 72.5° | 31.5 | 27.3 | 35.7 | 51.8 | 94.1 | 157.6 | 378.2 | 393.2 | 330.9 | 285.0 | 169.0 |
| 75° | 14.1 | 13.8 | 16.2 | 20.7 | 36.3 | 45.0 | 172.6 | 188.5 | 173.8 | 135.5 | 56.6 |
| 77.5° | 10.2 | 9.6 | 11.1 | 14.4 | 18.3 | 17.7 | 52.4 | 60.8 | 57.2 | 35.7 | 13.8 |
| 80° | 7.2 | 6.9 | 7.8 | 10.2 | 12.3 | 10.8 | 17.4 | 18.9 | 21.0 | 14.4 | 7.2 |
| 82.5° | 3.9 | 3.9 | 5.4 | 7.5 | 7.5 | 6.0 | 8.7 | 9.0 | 10.5 | 8.7 | 3.9 |
| 85° | 1.2 | 1.5 | 3.3 | 4.8 | 3.9 | 3.0 | 4.2 | 4.5 | 4.8 | 5.4 | 2.4 |
| 87.5° | 0.3 | 0.6 | 1.5 | 1.8 | 1.5 | 0.9 | 1.8 | 1.8 | 1.8 | 2.1 | 1.5 |
| 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° | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 |
| 2.5° | 26.1 | 23.4 | 24.3 | 21.9 | 21.6 | 22.8 | 22.5 | 21.9 | 23.1 | 23.7 | 25.5 |
| 5° | 33.9 | 30.3 | 29.7 | 27.3 | 23.7 | 21.9 | 22.5 | 26.4 | 29.4 | 30.0 | 32.7 |
| 7.5° | 39.3 | 36.9 | 35.7 | 31.5 | 25.8 | 24.6 | 25.8 | 28.8 | 31.5 | 32.1 | 34.2 |
| 10° | 42.3 | 40.5 | 39.0 | 33.9 | 33.3 | 31.8 | 28.8 | 27.9 | 30.0 | 30.6 | 31.2 |
| 12.5° | 47.1 | 46.8 | 45.0 | 41.1 | 38.1 | 35.7 | 32.1 | 29.1 | 26.4 | 25.5 | 25.5 |
| 15° | 53.0 | 52.1 | 51.8 | 45.6 | 40.5 | 36.3 | 28.5 | 21.3 | 19.2 | 17.4 | 16.5 |
| 17.5° | 60.5 | 61.1 | 54.8 | 46.8 | 41.7 | 31.5 | 20.1 | 14.1 | 12.9 | 12.6 | 12.3 |
| 20° | 67.1 | 66.5 | 57.8 | 47.4 | 36.9 | 21.3 | 13.2 | 11.7 | 12.0 | 12.6 | 12.3 |
| 22.5° | 74.6 | 71.0 | 57.5 | 46.2 | 26.7 | 13.2 | 11.4 | 11.4 | 11.7 | 12.3 | 12.3 |
| 25° | 78.8 | 75.2 | 58.1 | 43.8 | 18.3 | 11.1 | 11.1 | 11.1 | 11.4 | 11.7 | 11.7 |
| 27.5° | 85.4 | 77.9 | 57.5 | 37.5 | 12.0 | 10.2 | 10.5 | 10.2 | 9.6 | 9.9 | 9.9 |
| 30° | 92.9 | 87.2 | 60.2 | 27.3 | 10.2 | 9.3 | 9.3 | 9.0 | 8.1 | 8.4 | 8.4 |
| 32.5° | 104.0 | 89.6 | 65.9 | 17.1 | 9.6 | 9.0 | 8.4 | 7.5 | 7.2 | 7.2 | 7.2 |
| 35° | 110.6 | 97.7 | 64.7 | 12.0 | 9.3 | 8.4 | 7.2 | 6.6 | 6.3 | 6.3 | 6.3 |
| 37.5° | 127.7 | 111.2 | 59.9 | 10.5 | 9.0 | 7.8 | 6.6 | 6.0 | 5.7 | 6.0 | 6.0 |
| 40° | 151.3 | 132.8 | 50.6 | 10.2 | 8.4 | 7.2 | 6.0 | 5.4 | 5.4 | 5.4 | 5.7 |
| 42.5° | 178.9 | 156.7 | 38.1 | 9.9 | 7.8 | 6.6 | 5.4 | 5.1 | 5.1 | 5.4 | 5.4 |
| 45° | 215.5 | 179.2 | 25.8 | 9.3 | 7.5 | 6.3 | 5.1 | 4.8 | 4.8 | 5.1 | 5.1 |
| 47.5° | 268.8 | 202.3 | 18.9 | 8.7 | 7.2 | 5.7 | 5.1 | 4.8 | 4.8 | 5.1 | 5.1 |
| 50° | 324.6 | 229.6 | 14.7 | 8.4 | 6.9 | 5.7 | 5.1 | 4.8 | 4.8 | 5.1 | 5.1 |
| 52.5° | 376.1 | 243.6 | 12.3 | 7.8 | 6.6 | 5.4 | 5.1 | 4.8 | 4.8 | 5.1 | 5.1 |
| 55° | 419.3 | 246.9 | 10.8 | 7.5 | 6.3 | 5.4 | 5.1 | 4.8 | 4.8 | 4.8 | 4.8 |
| 57.5° | 452.8 | 243.6 | 9.9 | 6.9 | 6.0 | 5.1 | 4.8 | 4.5 | 4.5 | 4.5 | 4.5 |
| 60° | 469.0 | 234.4 | 8.7 | 6.3 | 5.7 | 5.1 | 4.5 | 4.5 | 4.2 | 4.2 | 4.2 |
| 62.5° | 457.0 | 218.2 | 7.5 | 5.7 | 5.1 | 4.5 | 4.2 | 3.9 | 3.6 | 3.6 | 3.3 |
| 65° | 425.3 | 192.4 | 6.6 | 5.1 | 4.5 | 4.2 | 3.9 | 3.6 | 3.0 | 3.0 | 2.7 |
| 67.5° | 357.8 | 148.9 | 5.7 | 4.5 | 4.2 | 3.9 | 3.3 | 3.0 | 2.7 | 2.4 | 2.1 |
| 70° | 241.9 | 94.4 | 5.1 | 4.2 | 3.6 | 3.3 | 3.0 | 3.0 | 2.7 | 2.4 | 2.1 |
| 72.5° | 110.6 | 37.5 | 4.8 | 3.9 | 3.3 | 3.0 | 2.7 | 3.0 | 2.7 | 2.7 | 2.1 |
| 75° | 35.1 | 12.3 | 4.2 | 3.6 | 3.0 | 2.4 | 2.7 | 2.7 | 2.4 | 2.1 | 1.5 |
| 77.5° | 10.2 | 5.4 | 3.6 | 3.3 | 2.7 | 2.1 | 2.4 | 2.1 | 1.8 | 1.5 | 0.9 |
| 80° | 4.8 | 3.3 | 2.7 | 2.4 | 2.1 | 1.2 | 1.8 | 1.8 | 1.8 | 1.5 | 0.9 |
| 82.5° | 2.4 | 1.8 | 1.8 | 1.8 | 1.2 | 0.6 | 1.5 | 1.8 | 1.5 | 1.5 | 0.9 |
| 85° | 1.5 | 1.5 | 1.5 | 1.5 | 1.2 | 0.3 | 1.2 | 1.5 | 1.5 | 1.5 | 0.9 |
| 87.5° | 0.9 | 1.2 | 1.5 | 1.5 | 1.2 | 0.6 | 1.5 | 1.5 | 1.5 | 1.5 | 0.9 |
| 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)