

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: P534567

Luminaire Tested: **GLAN-SA1A-AMB-U-SL4-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1A-AMB-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 971 lumens
Efficiency: N/A
Efficacy: 47.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

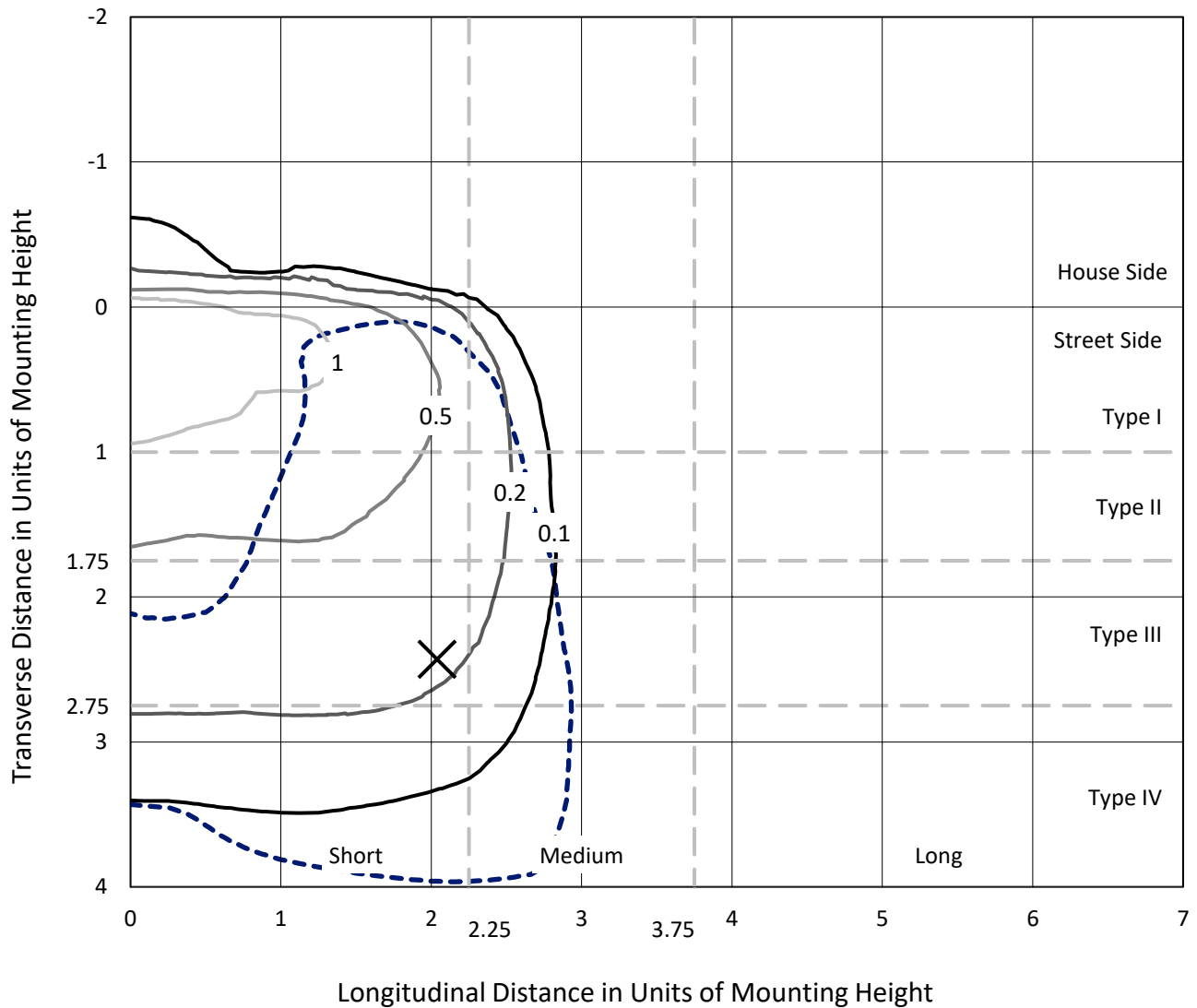
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

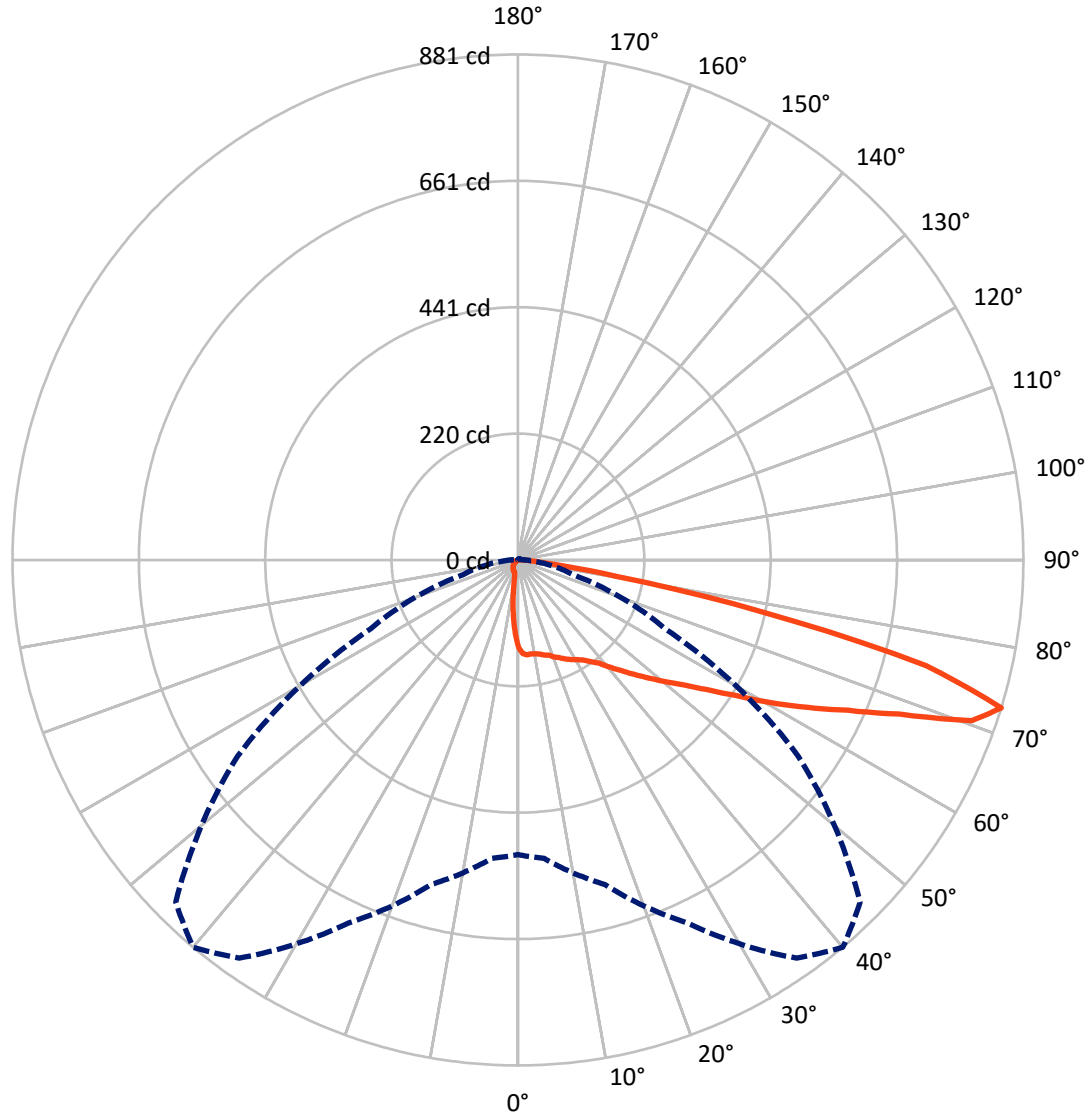
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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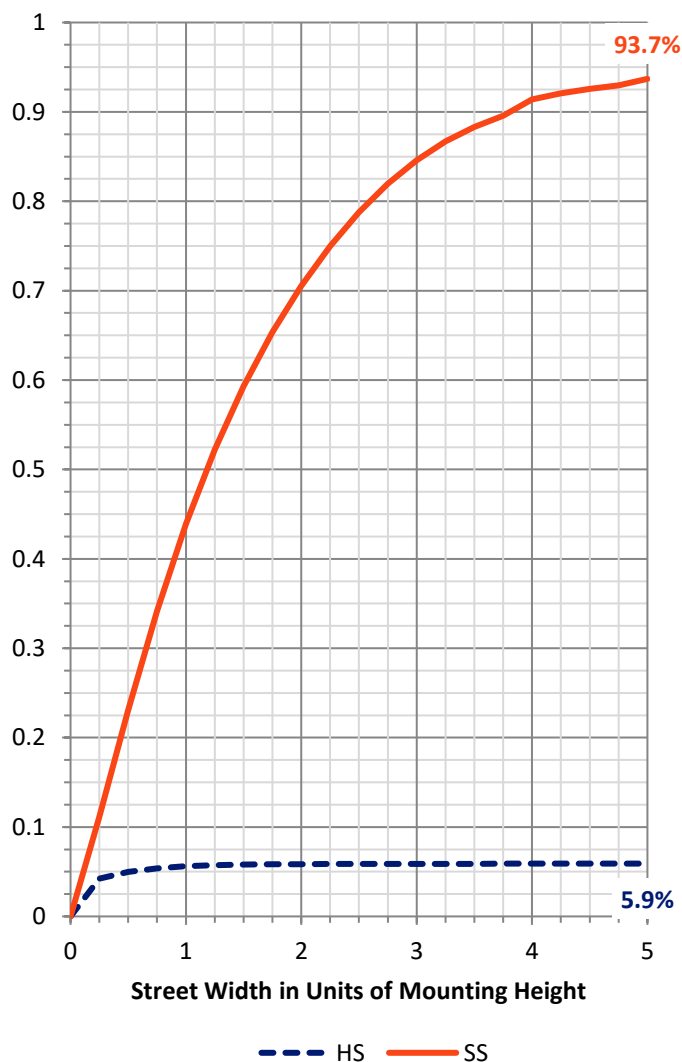
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|-------|
| House Side | Lumens | 57.7 | 0.0 | 57.7 |
| | % Fixture | 5.9 | 0.0 | 5.9 |
| Street Side | Lumens | 913.3 | 0.0 | 913.3 |
| | % Fixture | 94.1 | 0.0 | 94.1 |
| Total | Lumens | 971.0 | 0.0 | 971.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 12.2 | 1.3 |
| 10°-20° | 30.5 | 3.1 |
| 20°-30° | 50.6 | 5.2 |
| 30°-40° | 77.5 | 8.0 |
| 40°-50° | 123.7 | 12.7 |
| 50°-60° | 193.5 | 19.9 |
| 60°-70° | 277.7 | 28.6 |
| 70°-80° | 187.0 | 19.3 |
| 80°-90° | 18.1 | 1.9 |
| 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° | 971.0 | 100.0 |
| 0°-180° | 971.0 | 100.0 |

Coefficient of Utilization

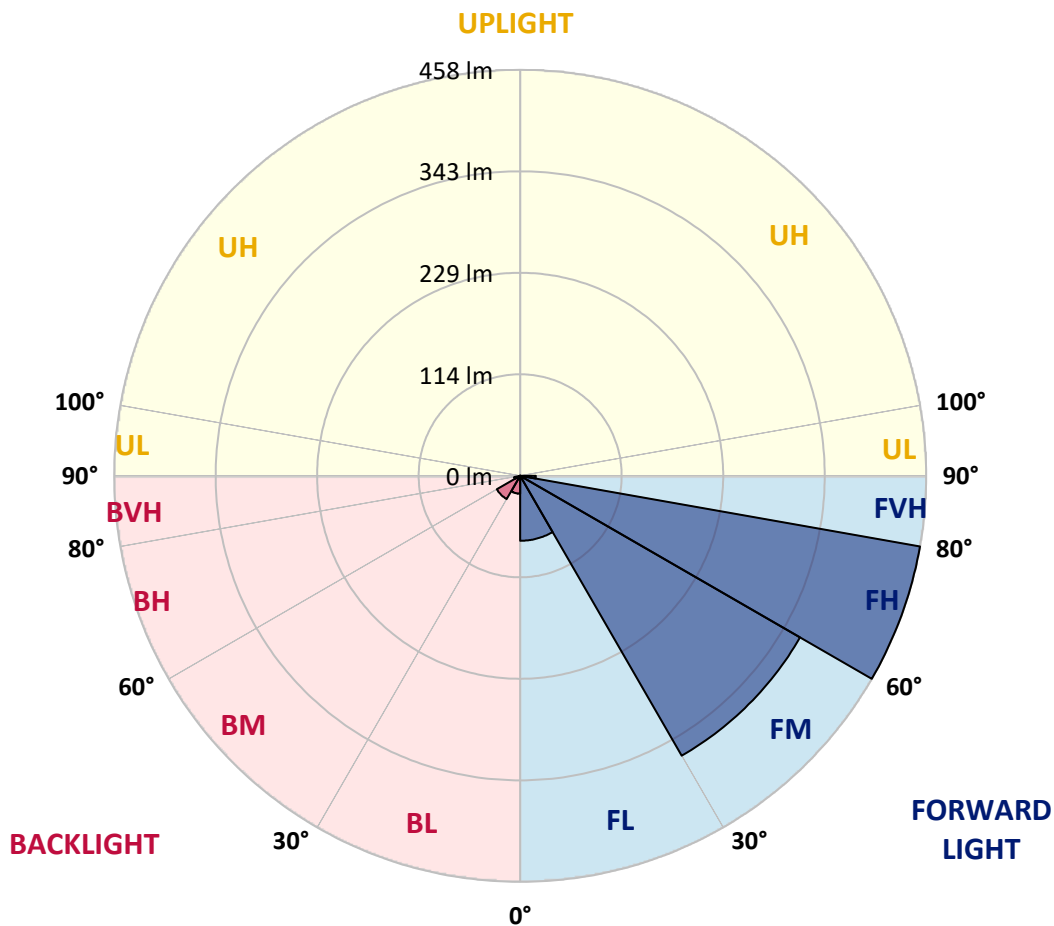


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 73.3 | 7.5 | | | |
| FM (30°-60°) | 364.4 | 37.5 | | | |
| FH (60°-80°) | 457.8 | 47.2 | | | G0/660 |
| FVH (80°-90°) | 17.7 | 1.8 | | | G1/100 |
| BL (0°-30°) | 20.1 | 2.1 | B0/110 | | |
| BM (30°-60°) | 30.3 | 3.1 | B0/220 | | |
| BH (60°-80°) | 6.9 | 0.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.4 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 153.1 | 153.1 | 153.1 | 153.1 | 153.1 | 153.1 | 153.1 | 153.1 | 153.1 | 153.1 | 153.1 |
| 2.5° | 168.4 | 167.4 | 165.3 | 164.7 | 164.7 | 163.1 | 163.1 | 161.0 | 158.9 | 155.7 | 152.0 |
| 5° | 170.0 | 169.5 | 169.0 | 169.5 | 167.4 | 166.3 | 164.7 | 162.1 | 158.4 | 155.2 | 150.4 |
| 7.5° | 170.0 | 170.0 | 169.0 | 167.4 | 167.4 | 165.3 | 164.7 | 161.5 | 158.4 | 154.7 | 148.8 |
| 10° | 166.3 | 166.3 | 166.8 | 167.4 | 167.9 | 166.3 | 165.8 | 161.0 | 158.9 | 156.8 | 149.9 |
| 12.5° | 162.6 | 162.1 | 165.3 | 167.4 | 169.0 | 168.4 | 166.8 | 165.3 | 161.0 | 156.3 | 150.4 |
| 15° | 161.5 | 161.5 | 164.7 | 169.5 | 171.6 | 172.1 | 170.6 | 167.9 | 163.1 | 158.9 | 152.0 |
| 17.5° | 162.1 | 162.1 | 166.3 | 172.1 | 175.3 | 174.3 | 174.8 | 170.0 | 165.3 | 161.5 | 155.2 |
| 20° | 166.3 | 165.3 | 171.6 | 178.5 | 181.1 | 180.6 | 178.5 | 173.2 | 168.4 | 165.3 | 158.4 |
| 22.5° | 169.5 | 169.0 | 176.4 | 183.3 | 187.5 | 184.9 | 183.3 | 175.3 | 170.6 | 169.0 | 162.1 |
| 25° | 177.4 | 178.0 | 183.3 | 191.2 | 192.8 | 191.2 | 188.6 | 178.5 | 174.3 | 175.3 | 165.3 |
| 27.5° | 185.9 | 187.0 | 192.8 | 198.1 | 198.1 | 196.5 | 193.9 | 183.3 | 179.6 | 180.6 | 171.1 |
| 30° | 197.0 | 195.4 | 201.3 | 204.5 | 203.9 | 201.8 | 199.7 | 188.6 | 187.0 | 190.7 | 178.0 |
| 32.5° | 210.3 | 208.7 | 211.9 | 212.9 | 209.2 | 207.6 | 207.1 | 196.5 | 194.9 | 202.9 | 186.4 |
| 35° | 224.6 | 221.4 | 222.5 | 220.9 | 218.2 | 217.2 | 214.5 | 205.5 | 207.6 | 218.2 | 199.7 |
| 37.5° | 235.2 | 234.1 | 234.1 | 229.3 | 227.8 | 227.8 | 227.8 | 219.8 | 224.6 | 243.1 | 219.8 |
| 40° | 246.8 | 244.7 | 242.1 | 238.9 | 242.6 | 245.2 | 245.2 | 237.8 | 247.9 | 272.3 | 243.6 |
| 42.5° | 255.8 | 254.8 | 251.1 | 250.0 | 259.0 | 263.8 | 265.4 | 259.0 | 275.4 | 310.9 | 277.0 |
| 45° | 266.4 | 263.8 | 257.9 | 263.2 | 276.5 | 284.4 | 287.1 | 286.0 | 309.9 | 353.8 | 314.6 |
| 47.5° | 274.4 | 273.8 | 266.4 | 276.5 | 295.0 | 307.7 | 314.6 | 314.1 | 346.9 | 406.8 | 354.9 |
| 50° | 288.7 | 285.5 | 277.0 | 295.0 | 315.2 | 333.2 | 342.7 | 349.1 | 395.7 | 457.6 | 389.3 |
| 52.5° | 302.4 | 299.8 | 288.7 | 315.2 | 340.0 | 361.8 | 376.6 | 397.8 | 447.0 | 501.1 | 407.8 |
| 55° | 322.0 | 320.5 | 311.4 | 339.5 | 373.4 | 398.3 | 416.9 | 450.8 | 501.1 | 530.7 | 424.8 |
| 57.5° | 346.4 | 340.0 | 336.9 | 371.8 | 415.8 | 444.9 | 468.2 | 507.4 | 539.2 | 556.7 | 449.2 |
| 60° | 373.4 | 366.0 | 360.2 | 408.4 | 469.3 | 504.8 | 531.3 | 557.7 | 573.1 | 593.8 | 486.2 |
| 62.5° | 402.6 | 396.2 | 391.4 | 442.3 | 524.9 | 566.2 | 584.8 | 597.5 | 625.0 | 656.3 | 495.8 |
| 65° | 442.3 | 433.3 | 431.2 | 491.5 | 591.6 | 631.9 | 644.6 | 671.1 | 692.8 | 674.8 | 444.9 |
| 67.5° | 475.6 | 485.7 | 494.7 | 565.7 | 683.8 | 716.6 | 742.6 | 765.4 | 711.9 | 569.4 | 283.9 |
| 70° | 530.2 | 532.3 | 563.6 | 654.7 | 783.9 | 839.5 | 853.8 | 770.7 | 549.8 | 314.6 | 107.5 |
| 72.5° | 513.8 | 522.3 | 585.8 | 698.1 | 847.5 | 881.4 | 843.8 | 596.9 | 282.8 | 99.6 | 28.1 |
| 75° | 360.7 | 371.8 | 509.0 | 619.7 | 766.4 | 735.2 | 609.1 | 305.1 | 96.4 | 23.8 | 11.7 |
| 77.5° | 178.5 | 189.1 | 284.4 | 398.8 | 509.5 | 434.9 | 303.0 | 127.1 | 38.7 | 12.7 | 7.9 |
| 80° | 96.4 | 100.6 | 113.9 | 170.0 | 225.6 | 174.3 | 111.8 | 75.2 | 27.0 | 8.5 | 5.8 |
| 82.5° | 52.4 | 56.7 | 73.1 | 66.2 | 73.6 | 63.0 | 55.6 | 72.6 | 17.5 | 6.4 | 5.3 |
| 85° | 11.7 | 12.7 | 40.8 | 41.8 | 38.7 | 26.0 | 25.4 | 69.9 | 6.9 | 3.2 | 3.2 |
| 87.5° | 0.0 | 0.0 | 7.4 | 15.9 | 16.9 | 14.3 | 17.5 | 29.7 | 1.1 | 1.1 | 1.1 |
| 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° | 153.1 | 153.1 | 153.1 | 153.1 | 153.1 | 153.1 | 153.1 | 153.1 | 153.1 | 153.1 | 153.1 |
| 2.5° | 150.4 | 148.8 | 144.1 | 139.3 | 134.5 | 130.8 | 126.6 | 123.9 | 121.8 | 121.3 | 120.8 |
| 5° | 147.2 | 143.0 | 135.1 | 125.0 | 114.4 | 104.3 | 95.3 | 88.5 | 84.7 | 81.6 | 81.0 |
| 7.5° | 145.7 | 141.4 | 127.1 | 111.2 | 92.7 | 77.3 | 63.0 | 51.9 | 44.0 | 41.8 | 40.3 |
| 10° | 146.2 | 139.3 | 119.7 | 95.9 | 71.0 | 48.7 | 34.4 | 27.5 | 24.9 | 24.4 | 24.4 |
| 12.5° | 145.1 | 137.2 | 111.2 | 80.0 | 48.7 | 29.1 | 23.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 15° | 146.2 | 135.6 | 103.3 | 63.0 | 31.8 | 22.8 | 22.2 | 21.7 | 21.7 | 21.7 | 22.2 |
| 17.5° | 148.8 | 136.1 | 94.8 | 47.1 | 23.3 | 21.7 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 |
| 20° | 150.4 | 135.6 | 84.7 | 33.4 | 21.7 | 20.7 | 20.7 | 20.1 | 20.1 | 20.1 | 20.7 |
| 22.5° | 151.5 | 134.0 | 73.1 | 24.4 | 20.7 | 20.1 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 |
| 25° | 154.1 | 132.4 | 60.4 | 21.2 | 19.6 | 19.1 | 19.1 | 19.1 | 18.5 | 18.5 | 18.5 |
| 27.5° | 156.8 | 132.4 | 47.1 | 20.1 | 19.1 | 18.5 | 18.0 | 18.0 | 18.0 | 18.0 | 17.5 |
| 30° | 160.0 | 130.3 | 36.0 | 19.1 | 18.0 | 17.5 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 |
| 32.5° | 164.2 | 129.2 | 26.0 | 18.0 | 16.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 |
| 35° | 171.6 | 128.2 | 20.7 | 16.9 | 15.4 | 14.8 | 14.8 | 14.8 | 14.3 | 14.3 | 14.3 |
| 37.5° | 183.8 | 129.2 | 18.0 | 15.4 | 14.3 | 13.8 | 13.2 | 13.2 | 13.2 | 12.7 | 12.7 |
| 40° | 201.8 | 132.4 | 16.9 | 14.3 | 13.2 | 12.7 | 12.2 | 12.2 | 11.7 | 11.1 | 11.1 |
| 42.5° | 221.9 | 134.5 | 15.9 | 13.2 | 12.2 | 11.7 | 11.1 | 11.1 | 10.1 | 9.5 | 9.5 |
| 45° | 246.8 | 135.1 | 14.8 | 12.7 | 11.1 | 10.6 | 10.1 | 9.5 | 8.5 | 7.9 | 7.9 |
| 47.5° | 276.0 | 135.1 | 13.2 | 11.1 | 10.6 | 9.5 | 9.5 | 7.9 | 6.9 | 6.4 | 6.4 |
| 50° | 298.2 | 130.3 | 12.2 | 10.6 | 9.5 | 9.0 | 7.9 | 6.9 | 5.3 | 5.3 | 4.8 |
| 52.5° | 308.8 | 118.6 | 11.7 | 9.5 | 8.5 | 7.9 | 6.9 | 5.3 | 4.2 | 3.7 | 3.7 |
| 55° | 317.8 | 105.9 | 10.6 | 9.0 | 7.9 | 6.9 | 5.8 | 4.2 | 3.2 | 2.6 | 2.6 |
| 57.5° | 330.5 | 88.5 | 10.1 | 7.9 | 6.9 | 5.8 | 4.8 | 3.2 | 2.1 | 1.6 | 1.6 |
| 60° | 344.8 | 67.8 | 9.0 | 6.9 | 6.4 | 4.8 | 3.7 | 2.1 | 1.1 | 1.1 | 1.1 |
| 62.5° | 328.9 | 40.8 | 7.9 | 6.4 | 5.3 | 4.2 | 2.6 | 1.6 | 0.5 | 0.5 | 0.5 |
| 65° | 261.1 | 22.8 | 6.9 | 5.3 | 4.8 | 3.7 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 |
| 67.5° | 146.2 | 13.8 | 5.8 | 4.8 | 4.2 | 2.6 | 1.6 | 0.5 | 0.0 | 0.0 | 0.0 |
| 70° | 45.0 | 9.5 | 4.8 | 4.2 | 3.7 | 2.6 | 1.1 | 0.5 | 0.0 | 0.0 | 0.0 |
| 72.5° | 12.2 | 6.9 | 3.7 | 3.2 | 3.2 | 2.1 | 1.1 | 0.5 | 0.0 | 0.0 | 0.0 |
| 75° | 7.9 | 4.8 | 3.2 | 2.6 | 2.6 | 2.1 | 1.1 | 0.5 | 0.0 | 0.0 | 0.0 |
| 77.5° | 5.8 | 4.2 | 2.6 | 2.1 | 2.1 | 2.1 | 1.1 | 0.5 | 0.0 | 0.0 | 0.0 |
| 80° | 5.3 | 3.2 | 2.1 | 1.6 | 2.1 | 2.6 | 1.1 | 0.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 5.3 | 3.2 | 1.6 | 1.6 | 2.1 | 2.6 | 1.1 | 0.5 | 0.0 | 0.0 | 0.0 |
| 85° | 3.2 | 1.1 | 0.5 | 0.5 | 1.1 | 1.1 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.5 | 0.5 | 0.0 | 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)