

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: P534566

Luminaire Tested: **GLAN-SA1A-AMB-U-SL3**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1A-AMB-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1194 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

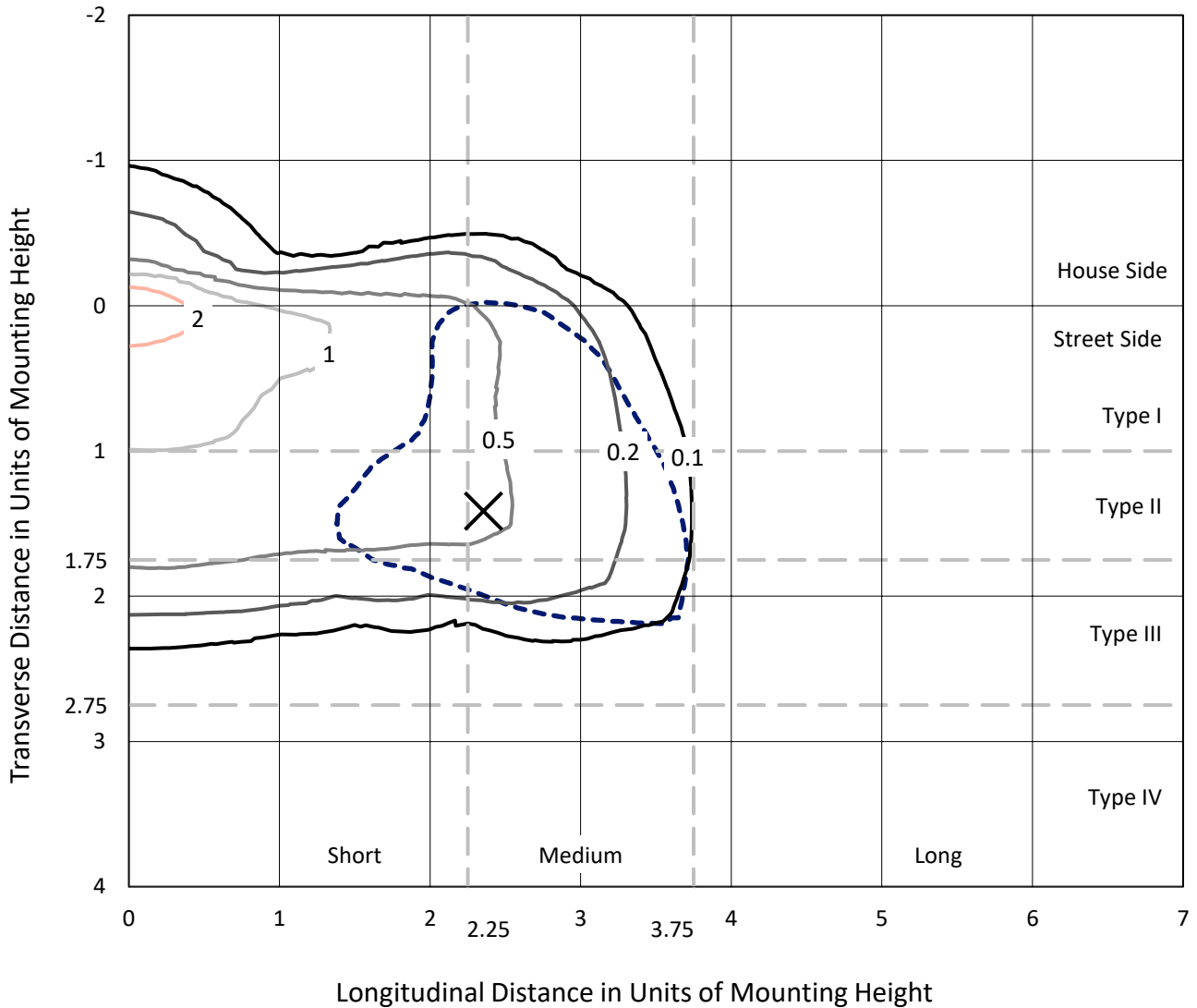
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

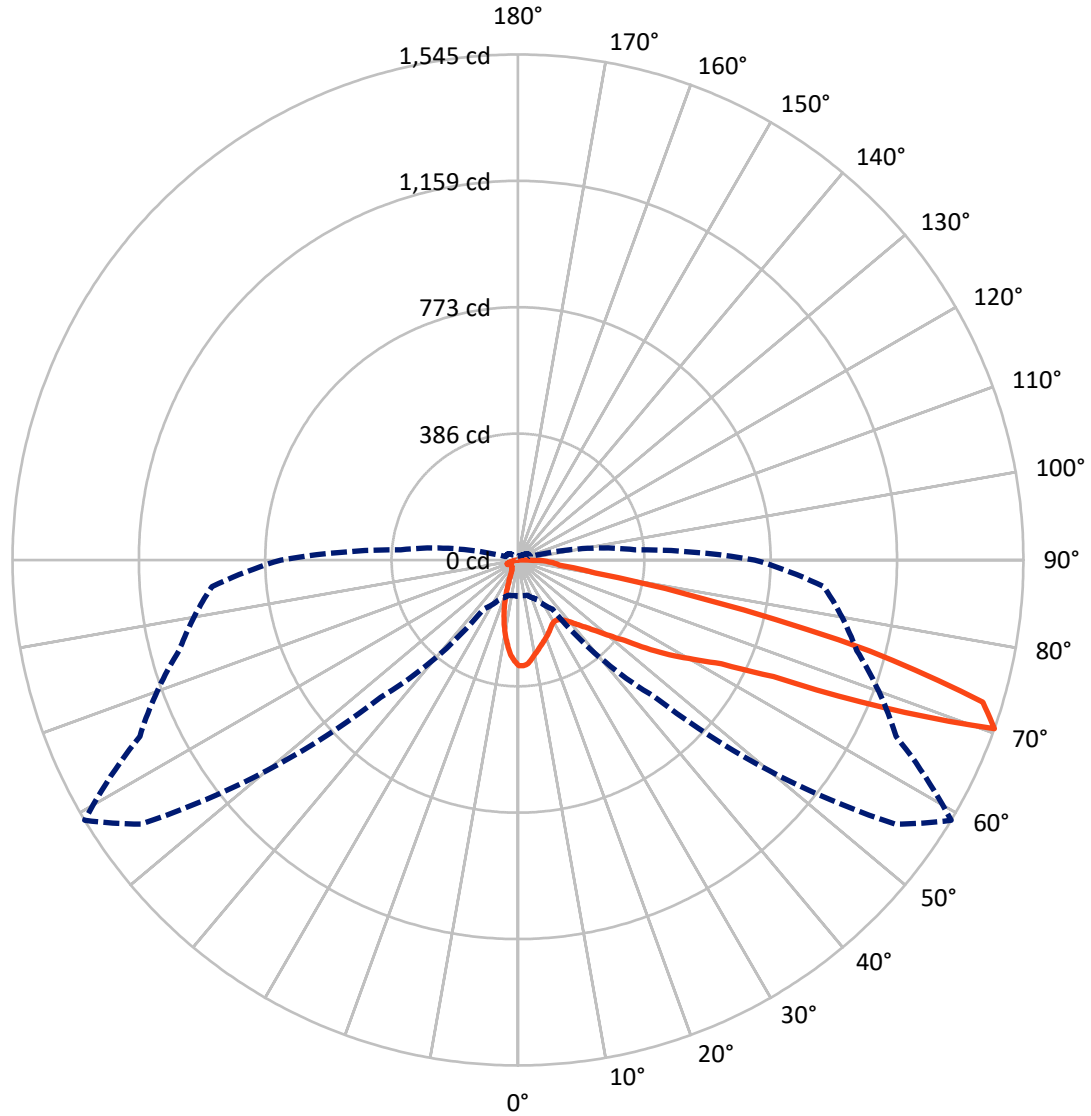
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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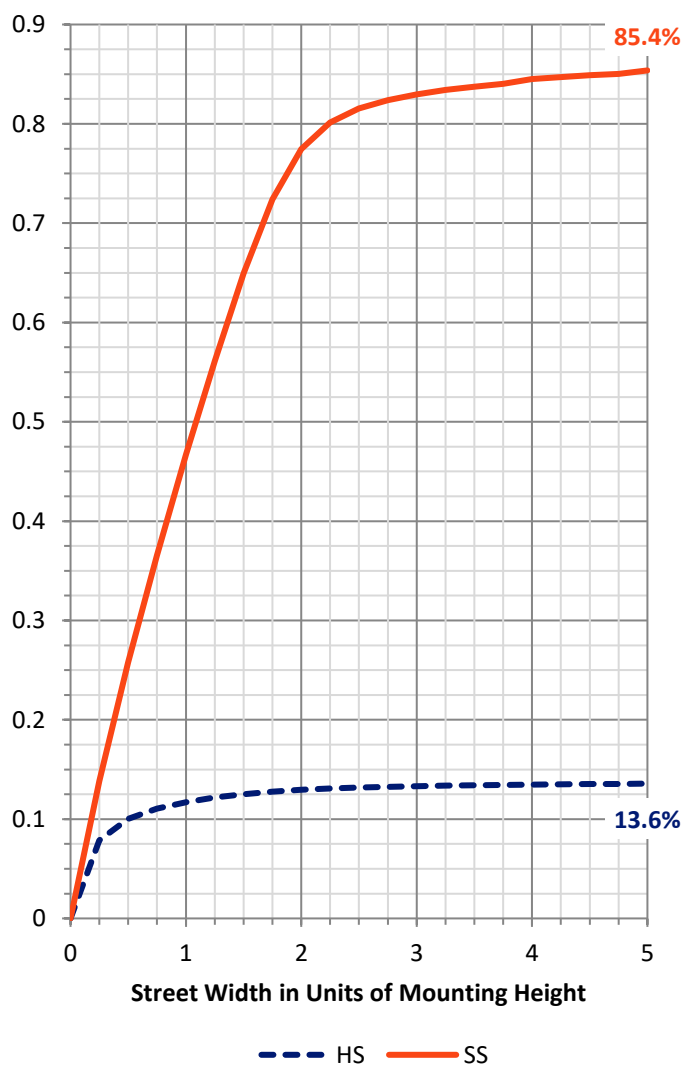
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 163.6 | 0.0 | 163.6 |
| | % Fixture | 13.7 | 0.0 | 13.7 |
| Street Side | Lumens | 1030.4 | 0.0 | 1030.4 |
| | % Fixture | 86.3 | 0.0 | 86.3 |
| Total | Lumens | 1194.0 | 0.0 | 1194.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 26.5 | 2.2 |
| 10°-20° | 55.5 | 4.6 |
| 20°-30° | 70.1 | 5.9 |
| 30°-40° | 91.7 | 7.7 |
| 40°-50° | 136.3 | 11.4 |
| 50°-60° | 223.3 | 18.7 |
| 60°-70° | 347.4 | 29.1 |
| 70°-80° | 215.2 | 18.0 |
| 80°-90° | 28.0 | 2.3 |
| 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° | 1194.0 | 100.0 |
| 0°-180° | 1194.0 | 100.0 |

Coefficient of Utilization

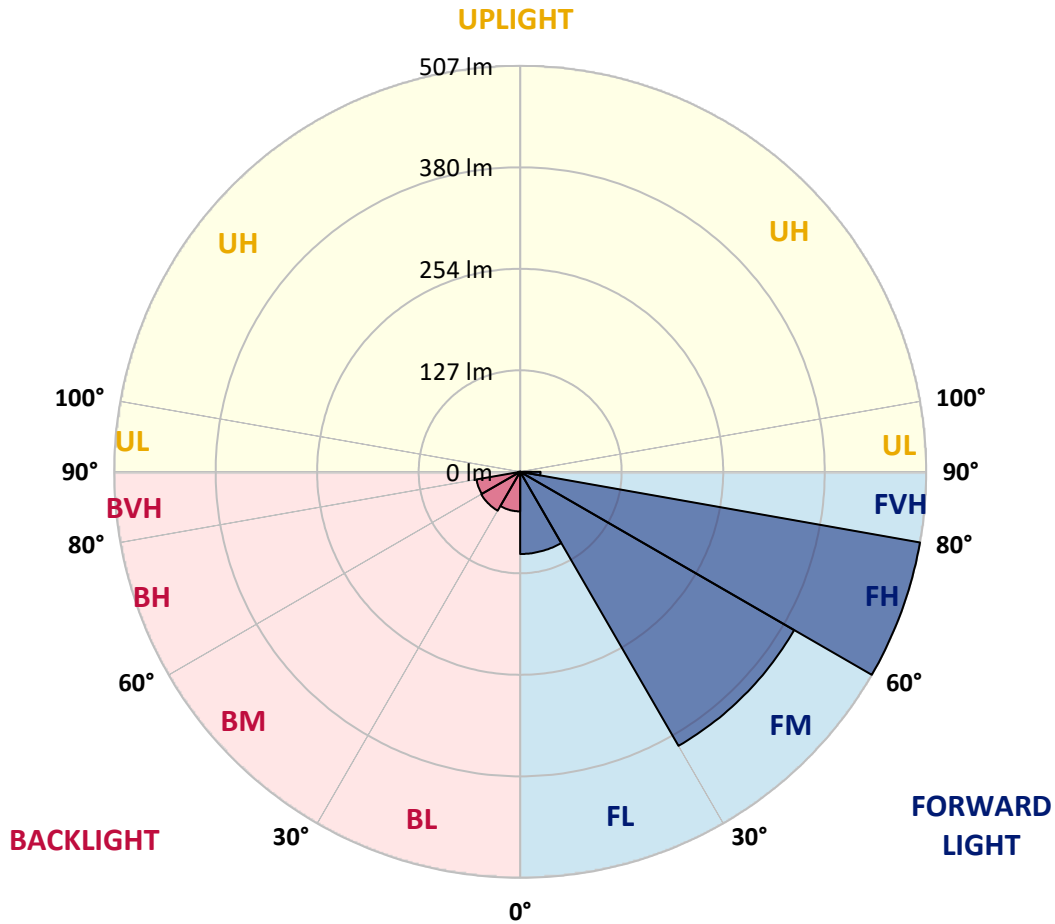


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 102.7 | 8.6 | | | |
| FM (30°-60°) | 395.2 | 33.1 | | | |
| FH (60°-80°) | 507.1 | 42.5 | | | G0/660 |
| FVH (80°-90°) | 25.4 | 2.1 | | | G1/100 |
| BL (0°-30°) | 49.4 | 4.1 | B0/110 | | |
| BM (30°-60°) | 56.1 | 4.7 | B0/220 | | |
| BH (60°-80°) | 55.4 | 4.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.7 | 0.2 | | | 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° | 59° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|
| 0° | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 |
| 2.5° | 324.5 | 324.5 | 324.5 | 321.9 | 326.7 | 325.1 | 325.6 | 324.0 | 325.1 | 323.5 | 321.9 |
| 5° | 308.7 | 308.7 | 307.6 | 308.1 | 312.4 | 315.5 | 317.7 | 318.7 | 316.6 | 317.7 | 314.5 |
| 7.5° | 282.2 | 284.3 | 284.8 | 287.5 | 292.8 | 298.6 | 302.3 | 305.0 | 306.0 | 306.5 | 302.8 |
| 10° | 257.3 | 257.8 | 261.5 | 264.7 | 273.7 | 280.6 | 289.1 | 291.2 | 294.4 | 298.6 | 294.9 |
| 12.5° | 239.3 | 241.9 | 243.0 | 247.2 | 256.8 | 264.7 | 274.8 | 280.1 | 284.8 | 292.8 | 291.2 |
| 15° | 222.9 | 222.4 | 224.5 | 231.4 | 241.4 | 253.1 | 264.7 | 269.0 | 276.4 | 287.0 | 284.8 |
| 17.5° | 210.2 | 210.2 | 212.8 | 218.7 | 226.6 | 238.8 | 254.7 | 259.4 | 269.5 | 283.2 | 279.0 |
| 20° | 203.8 | 204.4 | 205.4 | 207.0 | 213.4 | 227.7 | 242.5 | 250.4 | 261.5 | 280.1 | 274.8 |
| 22.5° | 202.8 | 202.2 | 201.7 | 202.2 | 205.9 | 213.9 | 230.8 | 240.9 | 255.7 | 278.5 | 269.5 |
| 25° | 204.4 | 203.8 | 203.3 | 202.8 | 202.8 | 208.1 | 222.9 | 231.4 | 248.8 | 278.0 | 264.2 |
| 27.5° | 208.6 | 209.7 | 207.0 | 204.4 | 201.7 | 203.8 | 213.9 | 222.9 | 241.9 | 280.1 | 261.5 |
| 30° | 216.0 | 216.5 | 215.5 | 211.8 | 206.5 | 203.8 | 210.2 | 218.1 | 236.1 | 282.2 | 259.4 |
| 32.5° | 224.5 | 224.5 | 224.5 | 221.3 | 214.9 | 207.5 | 210.7 | 218.1 | 235.6 | 287.5 | 257.8 |
| 35° | 233.5 | 235.6 | 235.6 | 232.4 | 227.1 | 214.9 | 217.1 | 223.9 | 239.8 | 294.4 | 262.1 |
| 37.5° | 246.2 | 246.7 | 246.2 | 246.7 | 240.9 | 228.2 | 228.7 | 234.5 | 247.2 | 304.4 | 268.4 |
| 40° | 258.4 | 256.8 | 260.5 | 263.7 | 260.0 | 245.7 | 244.1 | 250.4 | 260.5 | 320.8 | 280.1 |
| 42.5° | 269.5 | 270.0 | 272.7 | 278.5 | 281.7 | 268.4 | 265.8 | 270.5 | 277.4 | 340.4 | 299.7 |
| 45° | 280.1 | 281.7 | 291.7 | 298.1 | 304.4 | 291.2 | 289.6 | 294.9 | 302.3 | 363.7 | 328.8 |
| 47.5° | 289.6 | 290.7 | 303.4 | 318.7 | 329.8 | 324.0 | 321.9 | 325.6 | 329.3 | 397.6 | 365.3 |
| 50° | 298.6 | 302.3 | 318.7 | 338.3 | 357.4 | 363.7 | 359.5 | 363.7 | 363.2 | 432.0 | 405.5 |
| 52.5° | 323.5 | 327.2 | 345.2 | 364.8 | 387.0 | 404.5 | 411.4 | 408.7 | 405.0 | 470.1 | 451.6 |
| 55° | 377.5 | 375.9 | 385.4 | 397.6 | 423.0 | 445.8 | 479.7 | 475.4 | 459.0 | 509.8 | 497.1 |
| 57.5° | 430.4 | 438.9 | 438.9 | 435.7 | 461.1 | 500.3 | 545.3 | 546.4 | 515.1 | 552.7 | 551.1 |
| 60° | 451.6 | 461.1 | 482.8 | 511.4 | 541.6 | 562.8 | 615.7 | 615.7 | 572.3 | 601.4 | 606.7 |
| 62.5° | 402.9 | 416.7 | 450.5 | 508.8 | 616.8 | 728.5 | 722.7 | 698.3 | 649.1 | 671.3 | 694.6 |
| 65° | 248.8 | 252.5 | 294.9 | 410.3 | 588.2 | 875.7 | 929.2 | 858.7 | 766.1 | 789.4 | 840.2 |
| 67.5° | 149.8 | 151.9 | 161.5 | 210.7 | 373.8 | 860.3 | 1248.4 | 1202.3 | 981.0 | 953.0 | 958.8 |
| 70° | 110.7 | 109.1 | 111.7 | 131.8 | 183.2 | 593.5 | 1407.8 | 1545.4 | 1275.4 | 1072.6 | 939.2 |
| 72.5° | 87.9 | 88.9 | 90.0 | 109.6 | 136.6 | 246.7 | 1226.7 | 1486.1 | 1369.1 | 1010.2 | 711.6 |
| 75° | 68.8 | 69.4 | 74.6 | 92.7 | 130.8 | 132.9 | 776.7 | 1110.2 | 1018.1 | 682.4 | 312.4 |
| 77.5° | 51.4 | 52.9 | 58.2 | 77.3 | 125.5 | 127.6 | 338.3 | 608.3 | 517.3 | 280.6 | 83.7 |
| 80° | 33.9 | 34.4 | 39.7 | 63.5 | 118.6 | 128.1 | 153.0 | 238.2 | 159.4 | 59.8 | 30.7 |
| 82.5° | 19.1 | 20.1 | 24.9 | 39.7 | 97.9 | 124.4 | 128.7 | 127.6 | 72.5 | 29.6 | 16.4 |
| 85° | 10.6 | 10.6 | 14.8 | 23.3 | 58.2 | 120.7 | 121.8 | 107.5 | 50.3 | 16.4 | 9.0 |
| 87.5° | 4.8 | 4.8 | 6.9 | 10.6 | 27.5 | 79.9 | 90.0 | 76.8 | 31.8 | 6.9 | 3.2 |
| 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° | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 | 323.5 |
| 2.5° | 319.2 | 317.1 | 314.5 | 308.7 | 308.1 | 303.9 | 302.8 | 298.1 | 295.4 | 299.1 | 296.0 |
| 5° | 313.4 | 310.8 | 300.7 | 297.0 | 284.3 | 276.4 | 270.5 | 263.1 | 257.8 | 257.8 | 258.4 |
| 7.5° | 302.3 | 297.5 | 283.8 | 270.5 | 254.7 | 241.4 | 228.2 | 213.4 | 206.5 | 205.4 | 200.7 |
| 10° | 292.2 | 284.8 | 265.8 | 245.1 | 223.4 | 200.1 | 180.0 | 160.4 | 145.1 | 133.9 | 134.5 |
| 12.5° | 283.8 | 274.8 | 248.8 | 220.8 | 188.5 | 158.8 | 128.7 | 105.4 | 90.0 | 86.3 | 86.3 |
| 15° | 277.4 | 262.6 | 229.8 | 193.2 | 155.1 | 116.5 | 87.4 | 70.9 | 63.5 | 59.8 | 59.8 |
| 17.5° | 267.4 | 248.8 | 210.7 | 166.8 | 118.6 | 82.1 | 64.6 | 57.2 | 54.0 | 52.9 | 52.4 |
| 20° | 257.3 | 236.1 | 185.8 | 133.9 | 85.8 | 59.8 | 52.4 | 49.2 | 48.2 | 48.2 | 48.7 |
| 22.5° | 248.3 | 220.2 | 162.0 | 100.6 | 61.4 | 49.2 | 45.0 | 43.9 | 44.5 | 45.5 | 45.0 |
| 25° | 239.8 | 207.0 | 138.7 | 73.6 | 47.6 | 41.3 | 40.2 | 40.2 | 41.3 | 42.4 | 42.9 |
| 27.5° | 231.9 | 196.9 | 113.3 | 54.5 | 40.2 | 36.5 | 36.5 | 37.6 | 39.2 | 39.7 | 40.2 |
| 30° | 226.1 | 185.3 | 89.5 | 43.4 | 34.9 | 33.9 | 33.9 | 34.9 | 35.5 | 36.5 | 36.5 |
| 32.5° | 221.3 | 175.8 | 68.3 | 37.1 | 32.3 | 31.8 | 31.8 | 32.3 | 32.8 | 33.4 | 33.9 |
| 35° | 219.7 | 165.7 | 53.5 | 32.8 | 30.7 | 30.2 | 30.2 | 30.2 | 30.7 | 31.2 | 31.2 |
| 37.5° | 221.3 | 158.3 | 43.4 | 30.7 | 29.1 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 |
| 40° | 228.7 | 153.0 | 37.6 | 29.6 | 28.1 | 27.5 | 27.0 | 27.0 | 27.0 | 27.5 | 27.5 |
| 42.5° | 244.1 | 148.2 | 34.9 | 28.6 | 27.5 | 26.5 | 25.9 | 25.4 | 25.4 | 26.5 | 26.5 |
| 45° | 264.7 | 148.8 | 33.4 | 28.1 | 27.0 | 25.4 | 24.4 | 24.4 | 24.9 | 25.9 | 26.5 |
| 47.5° | 290.7 | 154.1 | 32.3 | 27.5 | 25.9 | 24.4 | 23.8 | 23.8 | 24.4 | 25.9 | 25.9 |
| 50° | 322.4 | 164.1 | 32.3 | 27.5 | 25.9 | 23.8 | 23.3 | 23.3 | 23.8 | 25.4 | 25.9 |
| 52.5° | 358.4 | 181.6 | 32.8 | 27.5 | 25.9 | 23.8 | 22.8 | 22.8 | 23.3 | 24.9 | 24.9 |
| 55° | 405.5 | 205.9 | 33.9 | 28.1 | 25.4 | 23.8 | 22.8 | 21.7 | 22.2 | 23.3 | 23.3 |
| 57.5° | 446.8 | 241.9 | 35.5 | 28.1 | 25.4 | 23.8 | 22.2 | 20.6 | 20.6 | 21.7 | 21.7 |
| 60° | 512.5 | 291.7 | 41.8 | 29.6 | 25.4 | 22.8 | 20.6 | 19.1 | 19.1 | 19.6 | 19.6 |
| 62.5° | 599.8 | 376.4 | 48.2 | 32.3 | 27.0 | 22.2 | 19.6 | 18.0 | 17.5 | 17.5 | 17.5 |
| 65° | 746.5 | 469.6 | 49.2 | 35.5 | 29.6 | 22.2 | 18.0 | 16.4 | 15.9 | 15.9 | 15.9 |
| 67.5° | 803.7 | 471.2 | 45.0 | 37.1 | 32.8 | 22.2 | 17.5 | 15.4 | 14.3 | 14.3 | 14.3 |
| 70° | 724.3 | 359.5 | 39.7 | 37.1 | 34.4 | 21.7 | 16.9 | 14.8 | 13.2 | 12.7 | 12.7 |
| 72.5° | 493.4 | 191.7 | 35.5 | 34.9 | 30.7 | 19.1 | 16.4 | 13.8 | 12.2 | 11.6 | 11.1 |
| 75° | 197.5 | 66.7 | 30.7 | 31.8 | 23.8 | 15.4 | 13.8 | 12.2 | 11.1 | 10.1 | 10.1 |
| 77.5° | 49.8 | 32.8 | 23.3 | 24.9 | 16.9 | 12.2 | 11.6 | 11.1 | 9.5 | 9.0 | 9.0 |
| 80° | 27.5 | 22.2 | 17.5 | 16.9 | 11.1 | 8.5 | 8.5 | 8.5 | 7.9 | 7.4 | 7.4 |
| 82.5° | 15.4 | 13.8 | 11.6 | 10.6 | 7.4 | 5.8 | 5.8 | 5.8 | 5.8 | 5.3 | 4.8 |
| 85° | 8.5 | 7.9 | 6.9 | 5.3 | 4.2 | 3.2 | 3.2 | 3.2 | 3.2 | 2.6 | 2.6 |
| 87.5° | 3.2 | 3.2 | 2.6 | 1.6 | 1.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 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)