

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: P526577

Luminaire Tested: **GLAN-SA1C-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4383 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

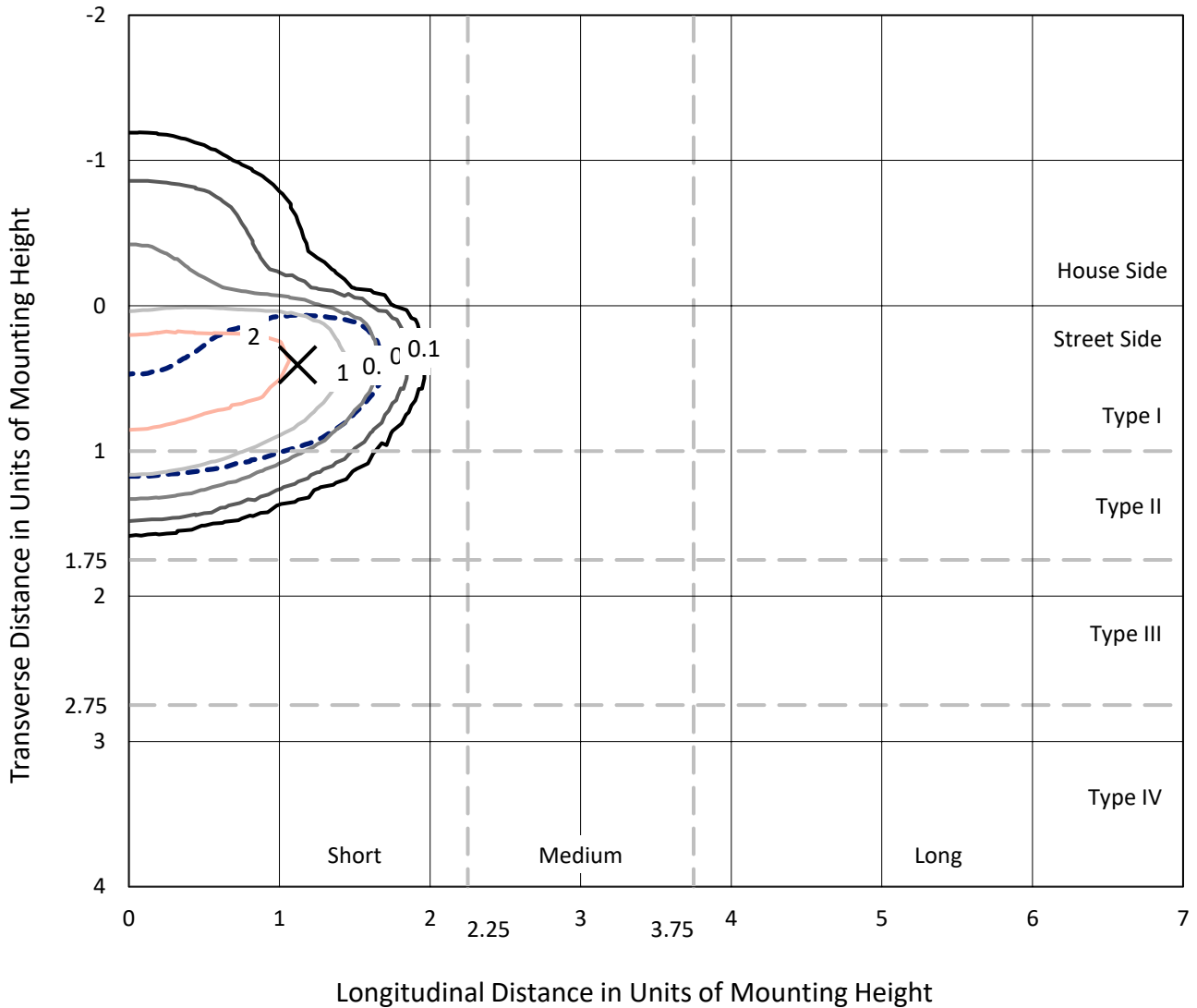
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

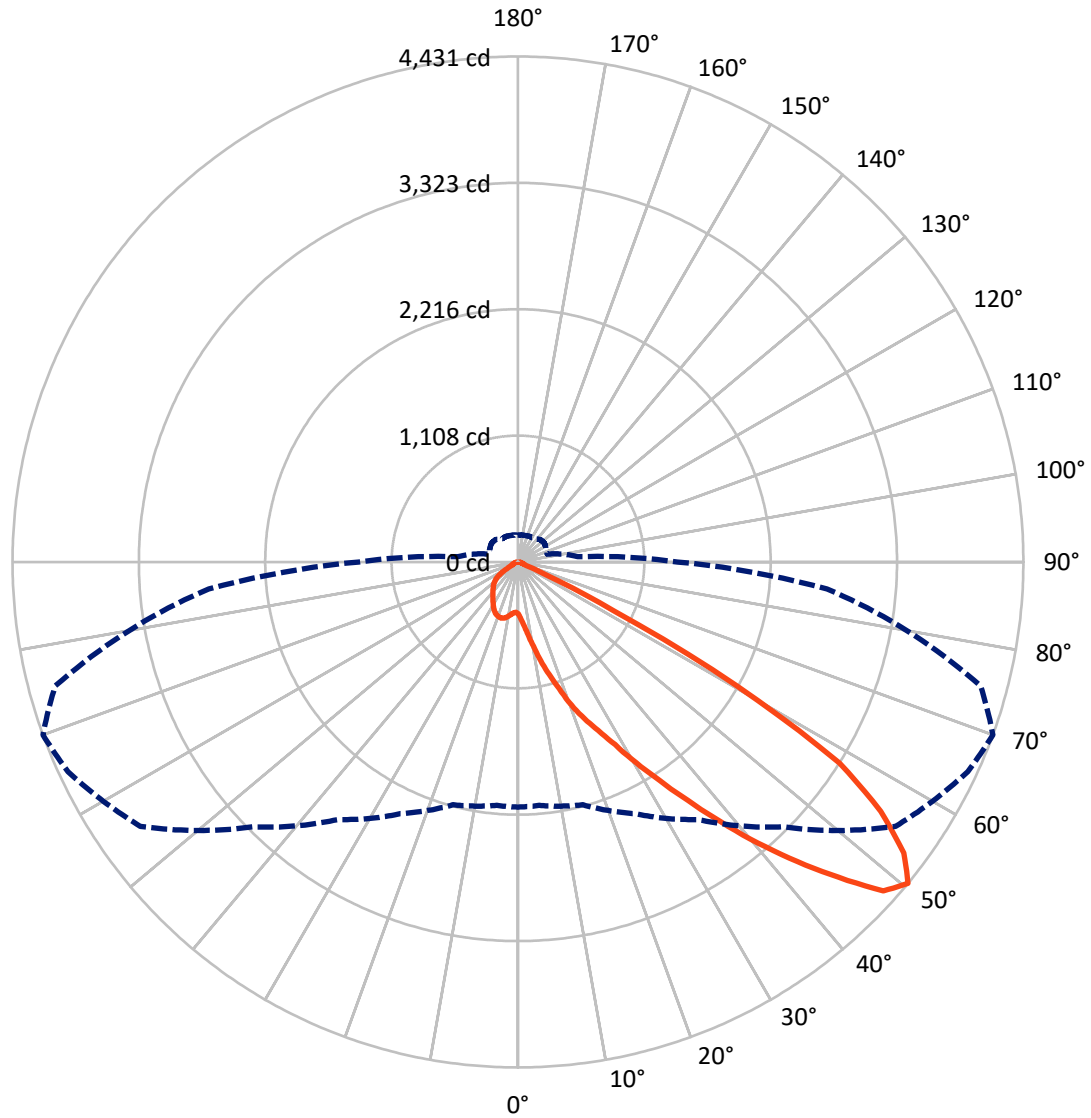
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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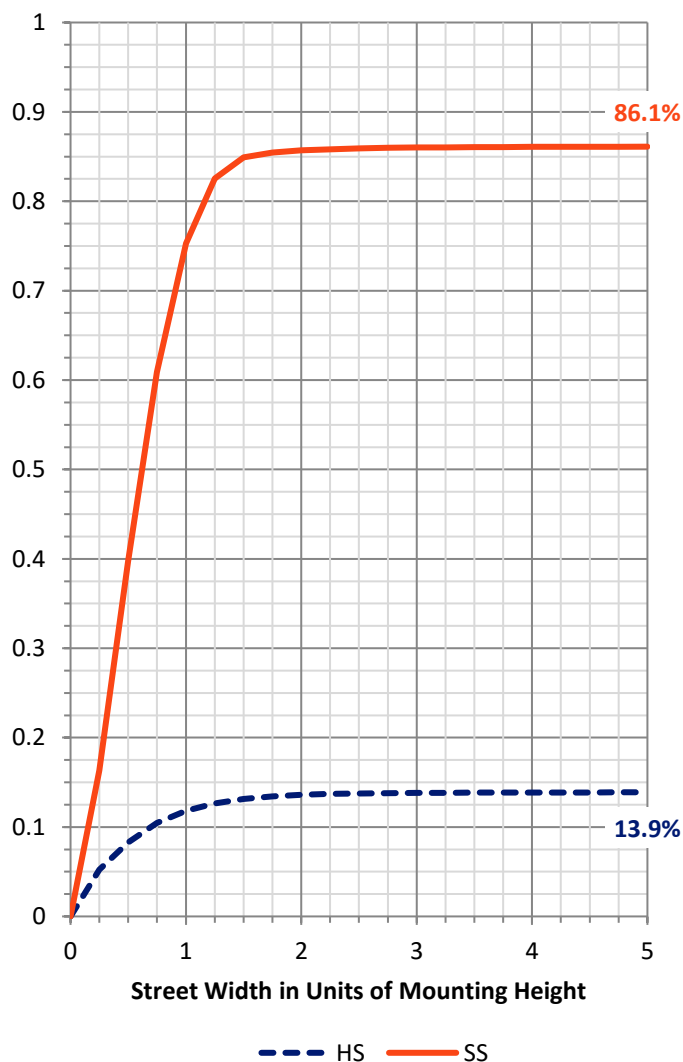
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 612.1 | 0.0 | 612.1 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 3770.9 | 0.0 | 3770.9 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 4383.0 | 0.0 | 4383.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.0 | 1.3 |
| 10°-20° | 255.4 | 5.8 |
| 20°-30° | 535.7 | 12.2 |
| 30°-40° | 923.4 | 21.1 |
| 40°-50° | 1349.5 | 30.8 |
| 50°-60° | 1051.1 | 24.0 |
| 60°-70° | 178.1 | 4.1 |
| 70°-80° | 24.5 | 0.6 |
| 80°-90° | 6.3 | 0.1 |
| 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° | 4383.0 | 100.0 |
| 0°-180° | 4383.0 | 100.0 |

Coefficient of Utilization



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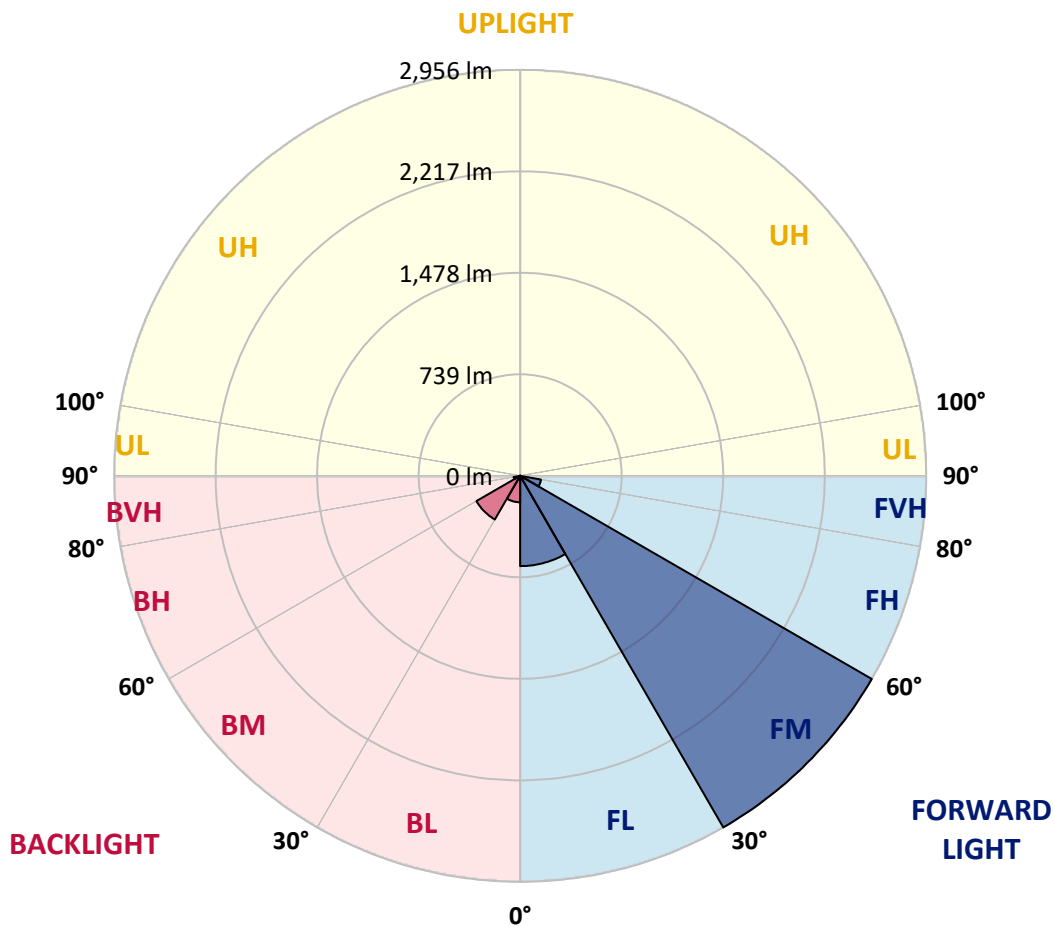
CATALOG NUMBER: GLAN-SA1C-735-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 657.5 | 15.0 | | | |
| FM (30°-60°) | 2956.3 | 67.4 | | | |
| FH (60°-80°) | 154.2 | 3.5 | | | G0/660 |
| FVH (80°-90°) | 2.9 | 0.1 | | | G0/10 |
| BL (0°-30°) | 192.6 | 4.4 | B1/500 | | |
| BM (30°-60°) | 367.7 | 8.4 | B1/1000 | | |
| BH (60°-80°) | 48.4 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 3.4 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 |
| 2.5° | 594.5 | 590.2 | 580.8 | 563.5 | 556.3 | 539.0 | 528.9 | 509.5 | 497.2 | 483.5 | 468.4 |
| 5° | 837.4 | 815.0 | 801.3 | 781.9 | 724.9 | 689.6 | 631.3 | 581.5 | 558.5 | 533.3 | 498.7 |
| 7.5° | 1088.1 | 1073.7 | 1055.0 | 1013.2 | 974.3 | 900.8 | 800.6 | 691.1 | 644.2 | 601.0 | 532.5 |
| 10° | 1295.7 | 1255.3 | 1253.2 | 1222.2 | 1179.7 | 1091.7 | 971.4 | 835.2 | 751.6 | 688.2 | 580.8 |
| 12.5° | 1440.5 | 1403.8 | 1420.3 | 1416.7 | 1377.1 | 1296.4 | 1157.3 | 977.2 | 890.0 | 791.2 | 630.5 |
| 15° | 1572.4 | 1557.3 | 1552.2 | 1547.9 | 1532.0 | 1472.2 | 1347.6 | 1150.1 | 1024.0 | 905.1 | 686.8 |
| 17.5° | 1701.4 | 1662.5 | 1681.2 | 1684.8 | 1683.4 | 1629.3 | 1512.6 | 1314.4 | 1166.0 | 1025.4 | 745.8 |
| 20° | 1816.0 | 1819.6 | 1794.4 | 1789.3 | 1785.0 | 1782.8 | 1669.0 | 1477.3 | 1340.4 | 1151.6 | 823.0 |
| 22.5° | 1963.0 | 1937.8 | 1960.1 | 1945.7 | 1917.6 | 1900.3 | 1813.1 | 1621.4 | 1491.7 | 1303.6 | 901.5 |
| 25° | 2136.6 | 2156.8 | 2104.2 | 2098.5 | 2067.5 | 2007.7 | 1929.1 | 1782.8 | 1637.3 | 1444.8 | 986.5 |
| 27.5° | 2350.7 | 2315.4 | 2301.7 | 2270.0 | 2213.8 | 2188.5 | 2096.3 | 1949.3 | 1813.1 | 1593.3 | 1068.7 |
| 30° | 2534.4 | 2525.1 | 2456.6 | 2419.1 | 2370.1 | 2369.4 | 2240.4 | 2174.8 | 2042.2 | 1826.1 | 1181.8 |
| 32.5° | 2684.3 | 2643.2 | 2618.0 | 2592.1 | 2552.4 | 2563.3 | 2454.4 | 2419.9 | 2286.5 | 2042.2 | 1315.1 |
| 35° | 2784.5 | 2754.9 | 2739.8 | 2700.2 | 2688.6 | 2736.9 | 2691.5 | 2677.1 | 2567.6 | 2346.3 | 1471.5 |
| 37.5° | 2816.2 | 2825.6 | 2822.7 | 2773.0 | 2797.5 | 2927.9 | 2986.3 | 2948.8 | 2891.1 | 2667.0 | 1640.9 |
| 40° | 2844.3 | 2850.8 | 2836.4 | 2894.7 | 2964.6 | 3113.1 | 3324.2 | 3262.3 | 3240.6 | 2992.0 | 1876.5 |
| 42.5° | 2860.2 | 2855.1 | 2855.1 | 2956.0 | 3061.9 | 3360.3 | 3650.7 | 3609.6 | 3593.0 | 3337.9 | 2148.9 |
| 45° | 2791.7 | 2742.7 | 2795.3 | 2932.2 | 3145.5 | 3482.1 | 3911.5 | 3968.5 | 3944.7 | 3749.4 | 2467.4 |
| 47.5° | 2535.9 | 2566.1 | 2595.7 | 2778.7 | 3043.9 | 3444.6 | 4071.5 | 4265.4 | 4309.3 | 4095.3 | 2676.4 |
| 50° | 2148.9 | 2142.4 | 2203.7 | 2434.3 | 2756.4 | 3283.2 | 4040.5 | 4351.1 | 4431.1 | 4199.1 | 2720.4 |
| 52.5° | 1563.0 | 1610.6 | 1676.9 | 1906.0 | 2288.0 | 2865.2 | 3640.6 | 4129.9 | 4236.5 | 4071.5 | 2691.5 |
| 55° | 910.1 | 857.5 | 1006.7 | 1200.6 | 1560.9 | 2161.1 | 3077.8 | 3660.8 | 3858.2 | 3839.5 | 2546.0 |
| 57.5° | 364.6 | 353.1 | 404.3 | 544.8 | 814.3 | 1339.6 | 2238.3 | 3007.9 | 3324.2 | 3516.6 | 2237.5 |
| 60° | 160.0 | 156.4 | 183.8 | 222.0 | 332.9 | 617.6 | 1224.3 | 1870.7 | 2200.8 | 2457.3 | 1540.0 |
| 62.5° | 115.3 | 113.9 | 127.6 | 141.2 | 175.8 | 268.8 | 514.5 | 753.8 | 939.7 | 1135.0 | 689.6 |
| 65° | 93.0 | 96.6 | 105.9 | 113.1 | 129.7 | 149.2 | 181.6 | 209.7 | 257.3 | 266.6 | 152.1 |
| 67.5° | 75.7 | 78.5 | 87.2 | 95.1 | 98.0 | 80.7 | 83.6 | 73.5 | 73.5 | 65.6 | 52.6 |
| 70° | 55.5 | 56.2 | 66.3 | 75.7 | 60.5 | 32.4 | 56.9 | 56.9 | 51.2 | 49.0 | 44.7 |
| 72.5° | 41.1 | 41.8 | 49.7 | 46.8 | 23.8 | 20.2 | 41.8 | 46.1 | 41.8 | 39.6 | 36.0 |
| 75° | 30.3 | 31.0 | 25.9 | 10.8 | 10.1 | 13.0 | 24.5 | 31.7 | 30.3 | 29.5 | 27.4 |
| 77.5° | 5.8 | 4.3 | 3.6 | 5.0 | 7.2 | 10.8 | 15.9 | 19.5 | 20.2 | 21.6 | 20.2 |
| 80° | 0.7 | 0.7 | 2.2 | 4.3 | 7.9 | 11.5 | 16.6 | 18.7 | 19.5 | 20.2 | 18.7 |
| 82.5° | 0.0 | 0.7 | 2.2 | 4.3 | 7.9 | 10.8 | 14.4 | 16.6 | 18.0 | 18.7 | 18.0 |
| 85° | 0.0 | 0.7 | 1.4 | 3.6 | 6.5 | 7.9 | 7.2 | 5.0 | 4.3 | 5.0 | 3.6 |
| 87.5° | 0.0 | 0.0 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 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° | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 |
| 2.5° | 459.8 | 456.9 | 446.8 | 436.0 | 426.6 | 430.9 | 426.6 | 423.0 | 424.4 | 423.0 | 421.6 |
| 5° | 485.0 | 472.0 | 450.4 | 441.0 | 433.1 | 432.4 | 430.2 | 429.5 | 430.2 | 430.2 | 423.7 |
| 7.5° | 508.8 | 487.9 | 464.8 | 454.7 | 445.3 | 446.1 | 441.0 | 441.0 | 440.3 | 436.7 | 435.3 |
| 10° | 544.8 | 516.7 | 487.1 | 469.1 | 457.6 | 455.4 | 450.4 | 445.3 | 445.3 | 445.3 | 438.1 |
| 12.5° | 584.4 | 549.1 | 508.8 | 487.9 | 474.2 | 463.4 | 455.4 | 454.0 | 446.1 | 444.6 | 441.0 |
| 15° | 619.0 | 574.3 | 523.2 | 494.3 | 477.1 | 462.6 | 450.4 | 442.5 | 438.9 | 436.7 | 433.8 |
| 17.5° | 652.9 | 596.0 | 531.1 | 494.3 | 475.6 | 459.0 | 446.1 | 438.9 | 430.2 | 431.7 | 425.9 |
| 20° | 698.3 | 619.0 | 533.3 | 485.0 | 461.9 | 446.1 | 428.8 | 425.2 | 420.1 | 415.8 | 417.2 |
| 22.5° | 742.2 | 635.6 | 526.8 | 473.4 | 440.3 | 421.6 | 412.9 | 408.6 | 406.4 | 402.8 | 397.8 |
| 25° | 781.9 | 653.6 | 516.7 | 452.6 | 417.2 | 403.5 | 395.6 | 394.9 | 389.9 | 389.9 | 380.5 |
| 27.5° | 822.2 | 660.1 | 499.4 | 428.1 | 397.1 | 389.1 | 385.5 | 384.1 | 381.9 | 376.9 | 370.4 |
| 30° | 868.4 | 662.3 | 474.2 | 402.8 | 379.0 | 370.4 | 375.4 | 379.0 | 369.7 | 360.3 | 363.2 |
| 32.5° | 906.5 | 657.2 | 443.9 | 379.0 | 366.1 | 361.8 | 371.8 | 375.4 | 364.6 | 354.5 | 349.5 |
| 35° | 952.7 | 645.0 | 414.4 | 360.3 | 353.1 | 361.8 | 370.4 | 370.4 | 348.8 | 336.5 | 333.6 |
| 37.5° | 1022.6 | 631.3 | 387.0 | 344.5 | 339.4 | 357.4 | 369.0 | 361.0 | 327.2 | 312.0 | 308.4 |
| 40° | 1097.5 | 622.6 | 360.3 | 328.6 | 332.2 | 350.2 | 356.7 | 332.2 | 297.6 | 288.2 | 285.4 |
| 42.5° | 1206.3 | 605.3 | 336.5 | 314.9 | 325.7 | 340.1 | 340.1 | 296.2 | 283.2 | 278.2 | 277.4 |
| 45° | 1341.8 | 593.1 | 315.6 | 303.4 | 316.4 | 320.0 | 308.4 | 277.4 | 268.1 | 266.6 | 267.4 |
| 47.5° | 1408.1 | 569.3 | 294.0 | 289.7 | 299.1 | 299.8 | 269.5 | 262.3 | 254.4 | 252.2 | 250.8 |
| 50° | 1398.0 | 526.8 | 265.9 | 271.7 | 284.6 | 277.4 | 245.7 | 247.2 | 240.0 | 239.2 | 235.6 |
| 52.5° | 1327.4 | 459.8 | 237.8 | 251.5 | 265.9 | 245.0 | 226.3 | 224.8 | 224.8 | 215.5 | 211.9 |
| 55° | 1176.8 | 370.4 | 203.9 | 221.2 | 238.5 | 206.1 | 201.1 | 199.6 | 196.0 | 187.4 | 185.2 |
| 57.5° | 931.8 | 271.7 | 153.5 | 172.2 | 202.5 | 175.1 | 174.4 | 167.9 | 158.5 | 152.1 | 152.1 |
| 60° | 554.2 | 156.4 | 96.6 | 105.2 | 134.0 | 142.0 | 157.8 | 154.9 | 139.1 | 129.0 | 126.1 |
| 62.5° | 252.9 | 80.7 | 61.3 | 62.7 | 72.1 | 92.2 | 123.9 | 143.4 | 121.1 | 103.8 | 102.3 |
| 65° | 85.0 | 59.8 | 50.4 | 48.3 | 49.7 | 55.5 | 74.2 | 101.6 | 96.6 | 80.0 | 77.1 |
| 67.5° | 51.9 | 53.3 | 47.6 | 44.0 | 44.0 | 43.2 | 42.5 | 46.1 | 56.9 | 55.5 | 56.2 |
| 70° | 44.7 | 49.0 | 44.0 | 39.6 | 38.2 | 36.0 | 30.3 | 25.2 | 21.6 | 25.2 | 26.7 |
| 72.5° | 36.0 | 38.9 | 37.5 | 33.9 | 30.3 | 27.4 | 21.6 | 16.6 | 12.3 | 10.8 | 10.8 |
| 75° | 26.7 | 28.8 | 30.3 | 25.9 | 23.1 | 19.5 | 15.9 | 10.8 | 6.5 | 4.3 | 4.3 |
| 77.5° | 19.5 | 21.6 | 22.3 | 20.2 | 17.3 | 13.7 | 10.1 | 7.2 | 3.6 | 1.4 | 1.4 |
| 80° | 16.6 | 19.5 | 21.6 | 20.2 | 18.0 | 13.0 | 9.4 | 5.0 | 2.9 | 0.7 | 0.7 |
| 82.5° | 15.9 | 19.5 | 21.6 | 19.5 | 17.3 | 12.3 | 9.4 | 5.8 | 2.2 | 0.7 | 0.7 |
| 85° | 3.6 | 5.0 | 6.5 | 7.9 | 9.4 | 9.4 | 7.2 | 4.3 | 2.2 | 0.7 | 0.7 |
| 87.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 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)