

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: P653831

Luminaire Tested: **GLAN-SA4A-840-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-840-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13114.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

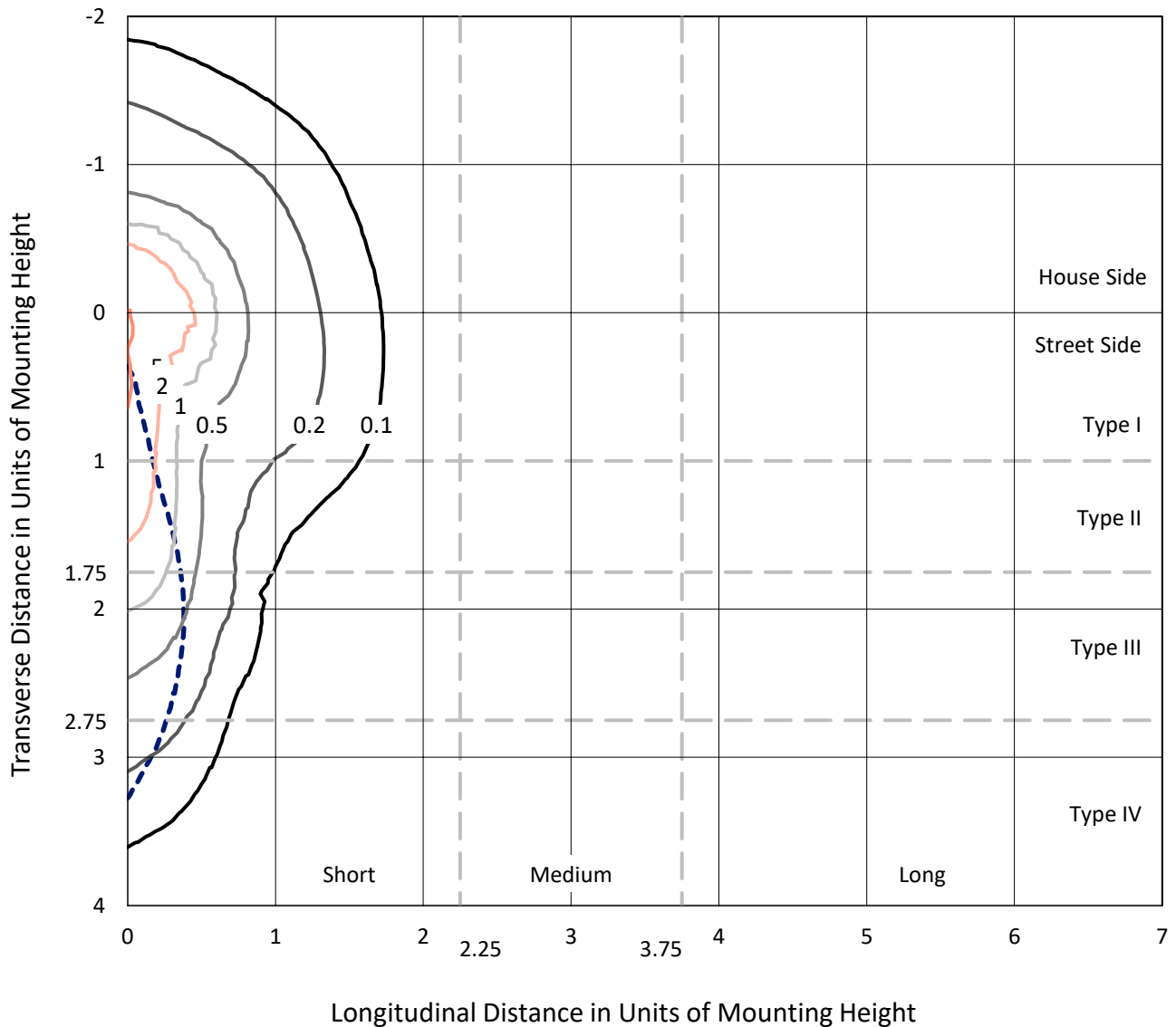
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P653831
 CATALOG NUMBER: GLAN-SA4A-840-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

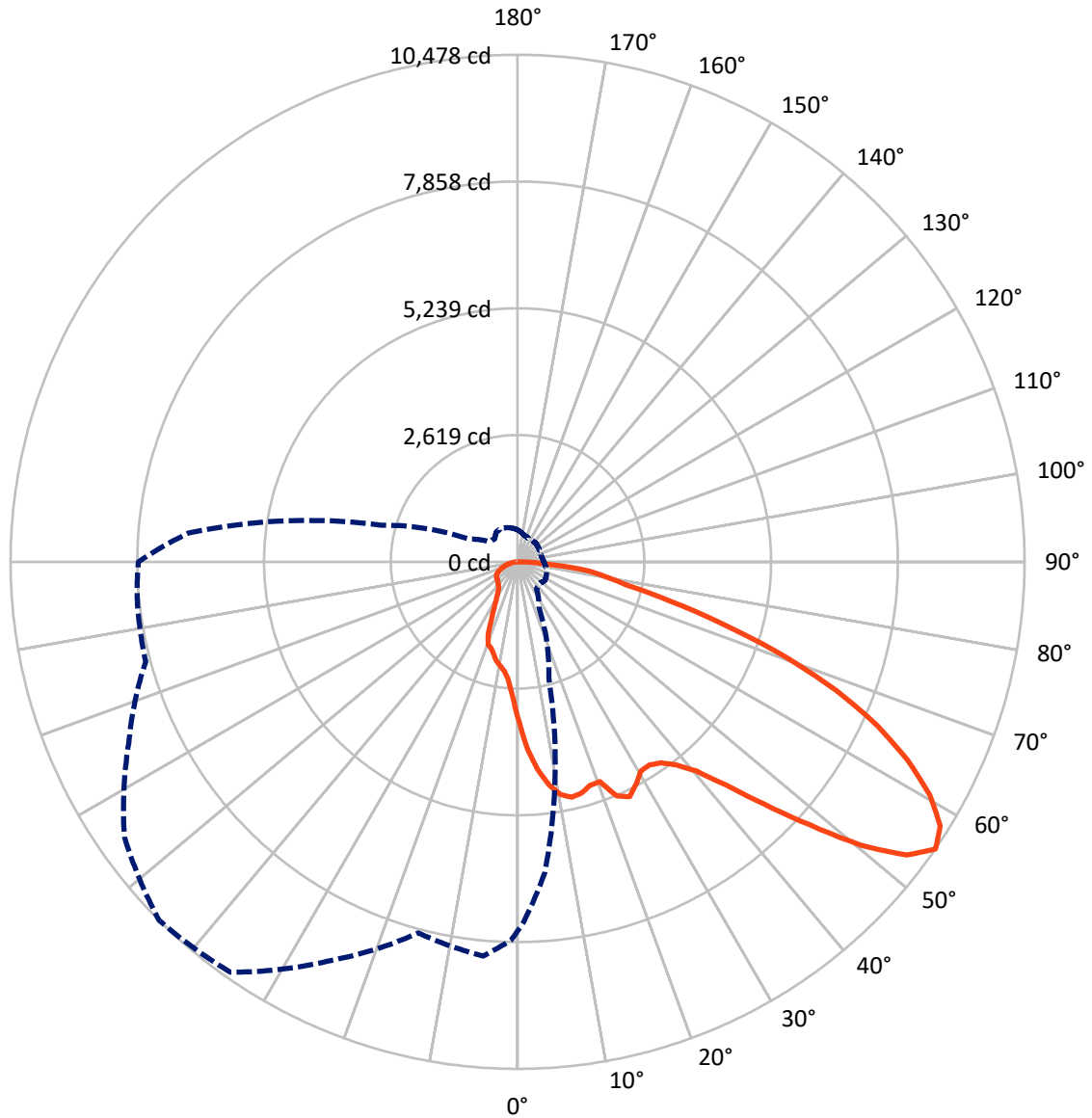
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P653831
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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2868.7 | 0.0 | 2868.7 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 10245.8 | 0.0 | 10245.8 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 13114.5 | 0.0 | 13114.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 278.9 | 2.1 |
| 10°-20° | 740.0 | 5.6 |
| 20°-30° | 1278.5 | 9.7 |
| 30°-40° | 1485.8 | 11.3 |
| 40°-50° | 2072.9 | 15.8 |
| 50°-60° | 2812.8 | 21.4 |
| 60°-70° | 2676.0 | 20.4 |
| 70°-80° | 1445.6 | 11.0 |
| 80°-90° | 324.0 | 2.5 |
| 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° | 13114.5 | 100.0 |
| 0°-180° | 13114.5 | 100.0 |

Coefficient of Utilization



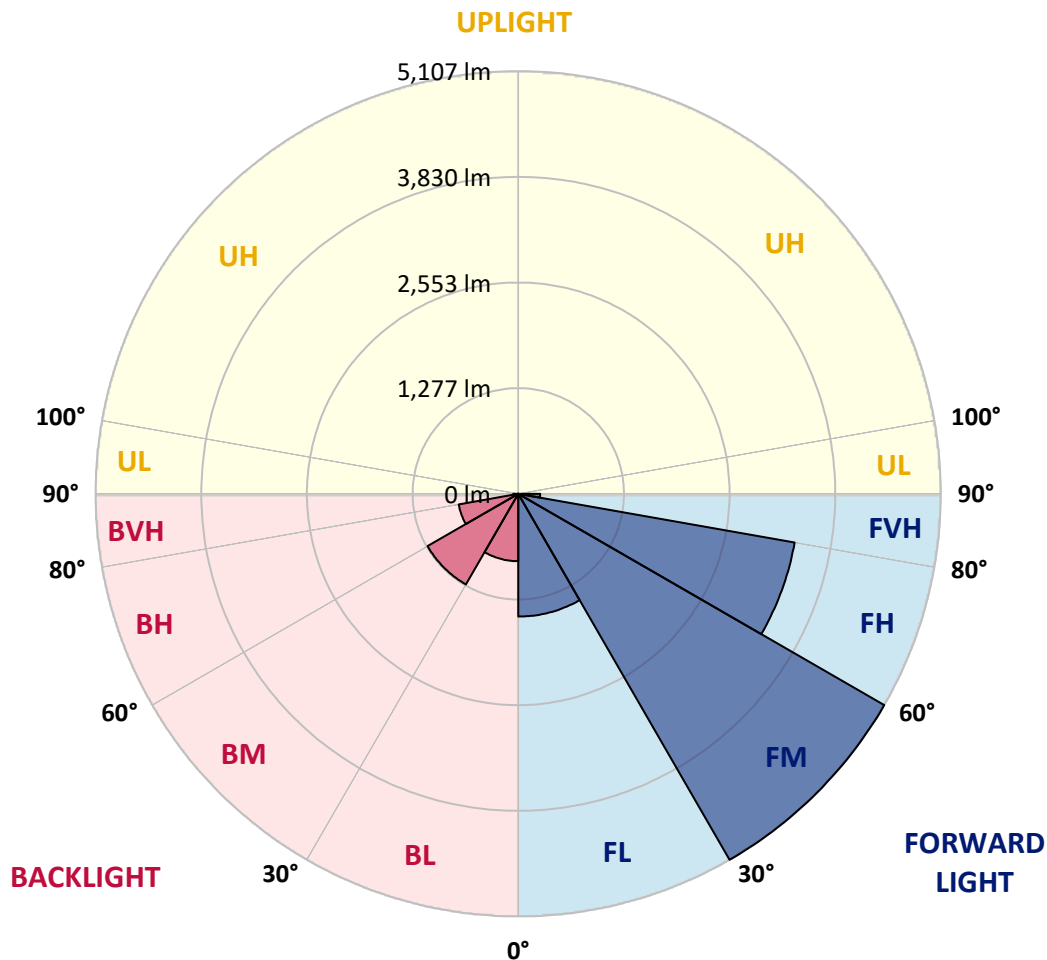
REPORT NUMBER: P653831
 CATALOG NUMBER: GLAN-SA4A-840-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1483.3 | 11.3 | | | |
| FM (30°-60°) | 5106.5 | 38.9 | | | |
| FH (60°-80°) | 3391.2 | 25.9 | | | G2/5000 |
| FVH (80°-90°) | 264.8 | 2.0 | | | G3/500 |
| BL (0°-30°) | 814.2 | 6.2 | B2/1000 | | |
| BM (30°-60°) | 1264.9 | 9.6 | B2/2500 | | |
| BH (60°-80°) | 730.4 | 5.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 59.2 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P653831

CATALOG NUMBER: GLAN-SA4A-840-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 |
| 2.5° | 3656.3 | 3642.5 | 3603.6 | 3501.5 | 3398.6 | 3293.9 | 3213.4 | 3113.0 | 3008.3 | 2952.1 | 2880.3 |
| 5° | 3706.5 | 3691.0 | 3599.2 | 3369.1 | 3160.6 | 2941.7 | 2766.9 | 2613.7 | 2551.5 | 2459.8 | 2386.3 |
| 7.5° | 3588.9 | 3582.0 | 3444.4 | 3113.9 | 2828.4 | 2542.0 | 2343.9 | 2221.0 | 2109.4 | 2067.9 | 2076.5 |
| 10° | 3481.6 | 3453.9 | 3281.8 | 2850.0 | 2516.9 | 2284.2 | 2142.3 | 2022.0 | 1943.2 | 1922.5 | 1926.8 |
| 12.5° | 3392.5 | 3355.3 | 3152.0 | 2672.6 | 2381.0 | 2195.0 | 2014.2 | 1888.7 | 1816.9 | 1836.8 | 1904.3 |
| 15° | 3374.3 | 3324.1 | 3097.4 | 2612.1 | 2306.6 | 2067.0 | 1868.9 | 1724.4 | 1670.7 | 1714.0 | 1822.1 |
| 17.5° | 3492.0 | 3428.8 | 3190.8 | 2632.0 | 2235.7 | 1936.3 | 1693.2 | 1527.9 | 1482.9 | 1552.1 | 1693.2 |
| 20° | 3870.0 | 3776.6 | 3482.4 | 2747.0 | 2228.7 | 1871.5 | 1591.1 | 1425.0 | 1444.0 | 1575.5 | 1722.6 |
| 22.5° | 4569.2 | 4429.0 | 3992.9 | 2914.9 | 2265.1 | 1855.0 | 1570.3 | 1483.9 | 1588.5 | 1700.2 | 1797.0 |
| 25° | 4707.6 | 4597.7 | 4084.7 | 2952.9 | 2257.3 | 1843.7 | 1629.2 | 1672.4 | 1789.2 | 1844.6 | 1810.8 |
| 27.5° | 4785.5 | 4660.0 | 4078.6 | 2764.4 | 2018.5 | 1672.4 | 1557.4 | 1629.2 | 1658.6 | 1605.0 | 1513.2 |
| 30° | 4967.1 | 4836.5 | 4181.5 | 2566.2 | 1662.1 | 1240.7 | 1087.6 | 1058.1 | 1078.1 | 1088.4 | 1055.5 |
| 32.5° | 5217.2 | 5088.3 | 4375.3 | 2436.4 | 1437.1 | 1026.1 | 875.6 | 834.0 | 824.5 | 813.3 | 800.3 |
| 35° | 5540.8 | 5342.6 | 4565.7 | 2353.4 | 1344.5 | 949.2 | 810.7 | 778.7 | 765.7 | 750.2 | 736.3 |
| 37.5° | 5869.6 | 5661.9 | 4806.2 | 2266.0 | 1283.1 | 895.5 | 767.4 | 752.7 | 730.2 | 713.8 | 693.9 |
| 40° | 6219.1 | 5986.3 | 5025.1 | 2189.8 | 1223.4 | 860.8 | 736.3 | 734.5 | 705.2 | 686.1 | 662.7 |
| 42.5° | 6522.0 | 6282.3 | 5220.7 | 2143.1 | 1177.6 | 824.5 | 717.3 | 722.4 | 692.1 | 663.6 | 633.4 |
| 45° | 6762.5 | 6527.1 | 5401.5 | 2143.1 | 1140.3 | 788.2 | 713.8 | 710.3 | 680.0 | 644.5 | 610.0 |
| 47.5° | 6973.6 | 6730.4 | 5578.0 | 2197.6 | 1117.0 | 757.9 | 694.8 | 700.8 | 669.7 | 624.7 | 591.0 |
| 50° | 7137.1 | 6922.5 | 5815.9 | 2282.4 | 1093.6 | 733.7 | 670.5 | 703.4 | 661.0 | 614.3 | 575.3 |
| 52.5° | 7345.6 | 7153.5 | 6102.3 | 2398.4 | 1073.7 | 706.9 | 648.9 | 703.4 | 660.2 | 615.2 | 572.8 |
| 55° | 7634.6 | 7432.1 | 6447.5 | 2494.4 | 1041.7 | 681.8 | 629.9 | 683.5 | 657.6 | 610.8 | 565.8 |
| 57.5° | 7837.0 | 7685.6 | 6691.5 | 2558.4 | 995.8 | 649.8 | 612.6 | 664.5 | 646.3 | 594.4 | 545.1 |
| 58° | 7846.5 | 7698.6 | 6727.0 | 2573.1 | 984.6 | 643.7 | 608.2 | 655.8 | 641.1 | 587.4 | 538.2 |
| 60° | 7737.5 | 7610.4 | 6733.9 | 2552.4 | 920.6 | 613.4 | 585.8 | 620.3 | 613.4 | 546.8 | 501.0 |
| 62.5° | 7341.3 | 7205.4 | 6454.4 | 2383.6 | 835.8 | 576.3 | 551.1 | 572.8 | 557.2 | 489.7 | 447.3 |
| 65° | 6778.0 | 6528.0 | 5879.9 | 2118.9 | 775.2 | 536.4 | 504.4 | 506.1 | 489.7 | 441.3 | 404.0 |
| 67.5° | 6027.9 | 5748.4 | 4978.4 | 1785.8 | 729.4 | 492.3 | 449.0 | 444.7 | 424.8 | 393.7 | 363.4 |
| 70° | 5104.7 | 4913.5 | 4045.7 | 1452.7 | 678.4 | 443.9 | 386.8 | 384.2 | 372.1 | 348.7 | 321.9 |
| 72.5° | 4137.4 | 3894.3 | 3267.0 | 1162.9 | 616.0 | 397.1 | 328.7 | 334.0 | 318.4 | 301.9 | 277.7 |
| 75° | 3053.3 | 2894.1 | 2525.5 | 932.7 | 532.1 | 346.1 | 274.3 | 276.0 | 269.1 | 251.8 | 232.7 |
| 77.5° | 2010.7 | 1963.1 | 1806.6 | 612.6 | 409.2 | 275.2 | 224.1 | 225.8 | 220.6 | 205.0 | 185.2 |
| 80° | 1353.2 | 1321.1 | 1224.2 | 394.5 | 273.4 | 199.0 | 173.1 | 174.8 | 173.9 | 157.4 | 130.6 |
| 82.5° | 834.0 | 820.2 | 789.0 | 266.5 | 189.5 | 142.7 | 114.2 | 119.4 | 128.9 | 110.8 | 89.1 |
| 85° | 393.7 | 394.5 | 476.8 | 145.3 | 111.6 | 91.8 | 62.3 | 66.6 | 66.6 | 66.6 | 50.2 |
| 87.5° | 51.0 | 53.7 | 65.8 | 61.4 | 40.7 | 34.6 | 22.5 | 19.0 | 16.4 | 21.6 | 15.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P653831
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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 |
| 2.5° | 2855.2 | 2837.9 | 2800.7 | 2792.0 | 2786.8 | 2801.5 | 2762.6 | 2772.9 | 2755.7 | 2804.1 | 2796.3 |
| 5° | 2390.5 | 2392.3 | 2422.6 | 2442.5 | 2449.4 | 2442.5 | 2416.5 | 2371.5 | 2336.9 | 2323.1 | 2326.5 |
| 7.5° | 2060.0 | 2090.3 | 2142.3 | 2200.2 | 2253.0 | 2268.6 | 2253.9 | 2168.2 | 2074.7 | 2016.0 | 1996.9 |
| 10° | 1950.2 | 1990.8 | 2050.5 | 2096.4 | 2143.1 | 2180.3 | 2188.1 | 2121.5 | 2010.7 | 1871.5 | 1816.9 |
| 12.5° | 1956.3 | 2011.6 | 2068.7 | 2083.4 | 2079.1 | 2093.8 | 2086.9 | 2075.6 | 2002.9 | 1825.6 | 1734.7 |
| 15° | 1899.1 | 1964.9 | 2004.7 | 1996.9 | 1983.1 | 1970.0 | 1951.9 | 1923.4 | 1897.4 | 1772.8 | 1672.4 |
| 17.5° | 1767.6 | 1835.1 | 1867.9 | 1870.6 | 1870.6 | 1867.1 | 1823.0 | 1812.6 | 1809.2 | 1748.6 | 1687.1 |
| 20° | 1791.8 | 1829.0 | 1814.4 | 1790.1 | 1797.0 | 1820.4 | 1794.4 | 1789.2 | 1809.2 | 1836.0 | 1824.7 |
| 22.5° | 1805.7 | 1792.7 | 1682.0 | 1574.7 | 1550.5 | 1623.1 | 1637.8 | 1695.8 | 1776.3 | 1873.2 | 1936.3 |
| 25° | 1720.0 | 1615.3 | 1417.2 | 1296.1 | 1227.7 | 1295.2 | 1383.4 | 1490.8 | 1611.0 | 1735.6 | 1809.2 |
| 27.5° | 1437.9 | 1358.4 | 1216.5 | 1107.4 | 1047.8 | 1058.1 | 1133.4 | 1231.2 | 1342.8 | 1426.8 | 1480.3 |
| 30° | 1083.2 | 1047.8 | 974.2 | 937.0 | 900.7 | 892.0 | 924.0 | 961.3 | 1010.5 | 1021.0 | 1034.8 |
| 32.5° | 797.7 | 792.6 | 796.8 | 784.7 | 777.8 | 776.9 | 767.4 | 776.1 | 781.3 | 787.3 | 775.2 |
| 35° | 721.6 | 714.7 | 702.6 | 699.1 | 694.8 | 696.5 | 692.1 | 687.9 | 691.3 | 696.5 | 700.0 |
| 37.5° | 682.6 | 672.3 | 655.0 | 648.9 | 648.9 | 651.5 | 644.5 | 642.9 | 648.9 | 665.3 | 674.0 |
| 40° | 652.4 | 640.3 | 620.3 | 612.6 | 617.7 | 624.7 | 615.2 | 611.7 | 626.4 | 643.7 | 657.6 |
| 42.5° | 623.9 | 614.3 | 595.3 | 586.6 | 591.0 | 603.9 | 590.0 | 587.4 | 606.5 | 625.5 | 642.0 |
| 45° | 599.5 | 590.0 | 572.8 | 568.4 | 570.2 | 582.3 | 572.8 | 572.8 | 591.0 | 611.7 | 626.4 |
| 47.5° | 580.5 | 568.4 | 557.2 | 553.7 | 555.5 | 562.4 | 560.7 | 560.7 | 577.9 | 599.5 | 614.3 |
| 50° | 561.5 | 551.1 | 536.4 | 538.2 | 542.4 | 552.0 | 551.1 | 553.7 | 571.0 | 597.9 | 613.4 |
| 52.5° | 552.9 | 537.3 | 520.8 | 522.6 | 535.5 | 546.8 | 543.4 | 546.0 | 565.8 | 616.0 | 638.5 |
| 55° | 543.4 | 522.6 | 503.6 | 506.1 | 520.8 | 537.3 | 532.9 | 536.4 | 559.8 | 628.1 | 659.3 |
| 57.5° | 525.2 | 501.0 | 480.2 | 481.9 | 503.6 | 520.8 | 513.9 | 518.2 | 546.0 | 615.2 | 648.1 |
| 58° | 517.4 | 496.6 | 476.8 | 477.6 | 498.4 | 517.4 | 509.6 | 513.1 | 541.6 | 611.7 | 642.9 |
| 60° | 484.5 | 472.4 | 455.1 | 456.0 | 475.8 | 492.3 | 487.9 | 491.4 | 519.1 | 586.6 | 610.0 |
| 62.5° | 439.5 | 432.6 | 428.2 | 428.2 | 440.3 | 456.0 | 460.3 | 464.7 | 489.7 | 530.3 | 551.1 |
| 65° | 391.1 | 391.1 | 391.9 | 391.9 | 399.7 | 419.7 | 422.2 | 433.5 | 456.8 | 476.8 | 492.3 |
| 67.5° | 358.2 | 356.5 | 358.2 | 353.9 | 357.3 | 369.5 | 382.4 | 392.8 | 417.1 | 430.8 | 436.1 |
| 70° | 315.8 | 315.0 | 315.8 | 309.7 | 314.0 | 324.5 | 333.1 | 350.4 | 375.5 | 385.9 | 388.5 |
| 72.5° | 274.3 | 274.3 | 276.0 | 271.6 | 271.6 | 282.9 | 289.0 | 308.0 | 331.4 | 337.4 | 338.3 |
| 75° | 231.0 | 233.6 | 233.6 | 227.6 | 229.3 | 236.2 | 244.0 | 259.5 | 281.2 | 285.5 | 285.5 |
| 77.5° | 183.4 | 192.9 | 192.9 | 186.9 | 189.5 | 190.3 | 200.7 | 208.5 | 225.0 | 226.6 | 219.8 |
| 80° | 133.2 | 142.7 | 150.5 | 145.3 | 149.7 | 144.5 | 150.5 | 155.8 | 172.2 | 164.4 | 153.1 |
| 82.5° | 95.2 | 102.1 | 108.2 | 109.0 | 104.7 | 95.2 | 102.9 | 103.9 | 111.6 | 101.3 | 95.2 |
| 85° | 52.8 | 58.9 | 66.6 | 63.2 | 56.3 | 50.2 | 52.8 | 54.5 | 53.7 | 51.0 | 47.6 |
| 87.5° | 13.9 | 14.7 | 16.4 | 12.1 | 11.3 | 9.5 | 13.0 | 13.0 | 14.7 | 15.6 | 14.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P653831
 CATALOG NUMBER: GLAN-SA4A-840-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 |
| 2.5° | 2802.4 | 2840.5 | 2922.6 | 2985.0 | 3061.1 | 3153.7 | 3262.7 | 3372.6 | 3491.1 | 3528.3 | 3580.2 |
| 5° | 2318.7 | 2413.9 | 2453.7 | 2567.1 | 2679.5 | 2848.2 | 3028.2 | 3236.8 | 3465.2 | 3575.0 | 3680.6 |
| 7.5° | 1981.3 | 2032.4 | 2073.9 | 2157.0 | 2291.9 | 2497.0 | 2722.8 | 2983.2 | 3306.8 | 3466.9 | 3621.8 |
| 10° | 1799.7 | 1804.8 | 1855.8 | 1958.9 | 2076.5 | 2257.3 | 2471.0 | 2762.6 | 3123.4 | 3318.1 | 3499.7 |
| 12.5° | 1679.4 | 1656.9 | 1712.3 | 1819.5 | 1952.8 | 2119.7 | 2316.1 | 2593.9 | 2991.0 | 3190.8 | 3410.7 |
| 15° | 1573.8 | 1538.4 | 1579.9 | 1689.7 | 1821.3 | 2017.6 | 2228.7 | 2522.9 | 2939.1 | 3171.8 | 3415.8 |
| 17.5° | 1576.4 | 1478.6 | 1493.4 | 1586.0 | 1716.6 | 1916.5 | 2172.6 | 2520.3 | 3017.8 | 3286.0 | 3575.0 |
| 20° | 1771.1 | 1614.5 | 1547.9 | 1565.2 | 1691.5 | 1909.5 | 2198.5 | 2641.5 | 3276.5 | 3667.6 | 3976.5 |
| 22.5° | 1962.3 | 1867.9 | 1760.7 | 1725.2 | 1794.4 | 2022.9 | 2363.7 | 2927.9 | 3838.9 | 4428.1 | 4986.2 |
| 25° | 1895.7 | 1976.1 | 1949.3 | 1899.1 | 1914.7 | 2104.2 | 2476.2 | 3163.2 | 4275.8 | 4939.4 | 5463.8 |
| 27.5° | 1516.7 | 1662.9 | 1692.3 | 1691.5 | 1697.6 | 1853.2 | 2227.1 | 3004.9 | 4330.4 | 5037.3 | 5538.2 |
| 30° | 1066.0 | 1078.9 | 1094.5 | 1124.8 | 1152.4 | 1291.8 | 1742.6 | 2638.0 | 4306.1 | 5081.3 | 5583.1 |
| 32.5° | 769.2 | 786.5 | 808.1 | 849.7 | 915.4 | 1092.8 | 1524.5 | 2521.2 | 4434.2 | 5263.9 | 5714.7 |
| 35° | 703.4 | 723.3 | 744.1 | 791.6 | 854.0 | 1018.4 | 1437.9 | 2472.8 | 4644.4 | 5559.8 | 5950.9 |
| 37.5° | 682.6 | 705.2 | 723.3 | 757.9 | 808.1 | 964.7 | 1359.2 | 2439.9 | 4859.9 | 5873.0 | 6267.6 |
| 40° | 667.9 | 693.9 | 708.6 | 736.3 | 770.9 | 915.4 | 1289.2 | 2413.9 | 5068.4 | 6159.4 | 6522.0 |
| 42.5° | 655.0 | 681.8 | 700.8 | 720.7 | 749.2 | 871.3 | 1226.9 | 2387.9 | 5249.2 | 6437.1 | 6775.4 |
| 45° | 639.4 | 673.1 | 697.4 | 712.9 | 738.1 | 834.0 | 1179.3 | 2367.2 | 5455.1 | 6683.7 | 7031.5 |
| 47.5° | 626.4 | 663.6 | 693.9 | 712.1 | 721.6 | 808.1 | 1141.2 | 2395.8 | 5702.6 | 6941.5 | 7269.4 |
| 50° | 627.3 | 662.7 | 700.8 | 729.4 | 704.3 | 786.5 | 1117.9 | 2509.1 | 6024.4 | 7247.8 | 7457.2 |
| 52.5° | 655.0 | 698.2 | 728.5 | 735.5 | 680.0 | 760.5 | 1105.7 | 2707.3 | 6405.1 | 7518.6 | 7646.7 |
| 55° | 686.1 | 731.1 | 764.0 | 759.7 | 667.1 | 727.6 | 1103.1 | 2918.4 | 6822.1 | 7834.4 | 7893.3 |
| 57.5° | 674.8 | 740.6 | 790.8 | 768.3 | 667.9 | 695.6 | 1091.9 | 3088.7 | 7170.8 | 8070.7 | 8137.3 |
| 58° | 671.4 | 737.1 | 794.2 | 766.6 | 665.3 | 686.1 | 1089.3 | 3103.5 | 7219.3 | 8087.1 | 8171.8 |
| 60° | 637.6 | 706.9 | 791.6 | 753.6 | 650.6 | 660.2 | 1060.8 | 3151.1 | 7206.3 | 8002.3 | 8192.6 |
| 62.5° | 576.3 | 633.4 | 731.9 | 690.5 | 605.6 | 625.5 | 996.8 | 3092.3 | 6855.0 | 7593.9 | 7888.9 |
| 65° | 507.0 | 549.4 | 615.2 | 607.4 | 541.6 | 590.0 | 909.3 | 2859.5 | 6151.6 | 6931.2 | 7241.8 |
| 67.5° | 455.1 | 489.7 | 531.3 | 520.0 | 487.1 | 542.4 | 815.0 | 2465.8 | 5362.6 | 6135.2 | 6526.2 |
| 70° | 402.3 | 429.2 | 449.9 | 442.1 | 431.8 | 495.8 | 731.1 | 2001.2 | 4606.3 | 5379.0 | 5757.9 |
| 72.5° | 348.7 | 373.7 | 391.1 | 379.8 | 373.7 | 446.5 | 662.7 | 1553.1 | 3638.2 | 4437.6 | 4924.7 |
| 75° | 291.6 | 316.6 | 328.7 | 315.8 | 312.3 | 393.7 | 561.5 | 1160.2 | 2729.7 | 3421.0 | 3841.5 |
| 77.5° | 225.8 | 252.6 | 268.2 | 263.9 | 265.6 | 323.6 | 453.4 | 794.2 | 1951.9 | 2331.8 | 2774.7 |
| 80° | 158.4 | 187.7 | 198.1 | 193.8 | 205.9 | 246.6 | 320.1 | 504.4 | 1346.3 | 1513.2 | 1825.6 |
| 82.5° | 97.8 | 125.5 | 127.2 | 131.5 | 140.2 | 182.6 | 241.4 | 307.1 | 845.3 | 873.9 | 1100.5 |
| 85° | 49.3 | 59.7 | 64.0 | 71.0 | 78.7 | 111.6 | 137.6 | 190.3 | 544.2 | 411.8 | 615.2 |
| 87.5° | 16.4 | 17.3 | 20.8 | 26.0 | 32.0 | 45.8 | 58.9 | 77.9 | 135.0 | 74.4 | 190.3 |
| 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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| 0° | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 | 3291.3 |
| 2.5° | 3684.9 | 3758.4 | 3812.1 | 3861.5 | 3813.9 | 3809.5 | 3762.8 | 3687.5 | 3656.3 | 3656.3 |
| 5° | 3902.1 | 4074.2 | 4213.6 | 4302.6 | 4264.6 | 4172.9 | 4021.5 | 3828.6 | 3724.7 | 3706.5 |
| 7.5° | 3961.8 | 4301.8 | 4560.5 | 4652.2 | 4588.2 | 4385.7 | 4095.9 | 3770.5 | 3621.8 | 3588.9 |
| 10° | 3925.5 | 4367.6 | 4747.4 | 4892.8 | 4803.6 | 4497.3 | 4102.0 | 3703.1 | 3519.7 | 3481.6 |
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| 15° | 3915.0 | 4379.7 | 4739.6 | 4956.8 | 4993.9 | 4695.5 | 4218.7 | 3691.0 | 3432.3 | 3374.3 |
| 17.5° | 4089.9 | 4445.4 | 4679.1 | 4854.7 | 4985.3 | 4842.6 | 4425.5 | 3844.1 | 3563.8 | 3492.0 |
| 20° | 4454.9 | 4602.9 | 4713.6 | 4849.5 | 5059.7 | 5142.8 | 4848.6 | 4264.6 | 3933.2 | 3870.0 |
| 22.5° | 5512.3 | 5485.4 | 5258.7 | 5256.1 | 5560.7 | 5893.8 | 5873.9 | 5119.4 | 4621.0 | 4569.2 |
| 25° | 5908.4 | 5783.9 | 5456.0 | 5376.3 | 5510.5 | 6024.4 | 5950.0 | 5294.2 | 4833.9 | 4707.6 |
| 27.5° | 5753.6 | 5444.7 | 5229.3 | 5211.2 | 5167.0 | 5652.4 | 5831.5 | 5365.2 | 4908.3 | 4785.5 |
| 30° | 5744.1 | 5289.9 | 4981.8 | 5018.2 | 5060.5 | 5524.4 | 5897.3 | 5587.5 | 5098.6 | 4967.1 |
| 32.5° | 5767.5 | 5311.5 | 5000.0 | 5007.0 | 5133.3 | 5543.4 | 5969.9 | 5829.7 | 5348.7 | 5217.2 |
| 35° | 5861.8 | 5434.4 | 5116.0 | 5099.5 | 5296.8 | 5667.9 | 6093.6 | 6210.4 | 5690.5 | 5540.8 |
| 37.5° | 6014.1 | 5679.2 | 5327.9 | 5323.6 | 5610.0 | 5892.9 | 6247.6 | 6594.6 | 6030.5 | 5869.6 |
| 40° | 6238.1 | 5965.5 | 5705.2 | 5681.8 | 6035.7 | 6258.9 | 6447.5 | 7003.8 | 6425.9 | 6219.1 |
| 42.5° | 6508.9 | 6309.1 | 6202.6 | 6295.2 | 6635.2 | 6669.9 | 6758.9 | 7382.0 | 6762.5 | 6522.0 |
| 45° | 6759.9 | 6750.4 | 6898.3 | 7144.0 | 7342.1 | 7134.5 | 7084.3 | 7635.4 | 7023.7 | 6762.5 |
| 47.5° | 7058.3 | 7316.2 | 7762.6 | 8122.5 | 8330.2 | 7675.2 | 7362.0 | 7800.7 | 7214.1 | 6973.6 |
| 50° | 7361.2 | 7993.6 | 8706.5 | 9208.4 | 9252.5 | 8262.7 | 7553.3 | 7956.4 | 7387.1 | 7137.1 |
| 52.5° | 7679.6 | 8534.4 | 9483.5 | 10066.7 | 9981.0 | 8774.1 | 7738.4 | 8062.0 | 7565.4 | 7345.6 |
| 55° | 7956.4 | 8865.7 | 9917.8 | 10477.6 | 10352.2 | 9085.5 | 7938.3 | 8176.2 | 7819.7 | 7634.6 |
| 57.5° | 8111.3 | 8893.4 | 9809.7 | 10298.5 | 10162.7 | 9024.9 | 8030.0 | 8261.0 | 7982.4 | 7837.0 |
| 58° | 8133.8 | 8856.2 | 9713.6 | 10194.7 | 10056.3 | 8973.9 | 8029.1 | 8257.5 | 7992.8 | 7846.5 |
| 60° | 8113.9 | 8614.9 | 9356.3 | 9784.6 | 9639.3 | 8653.8 | 7996.2 | 8192.6 | 7861.2 | 7737.5 |
| 62.5° | 7929.6 | 8196.0 | 8739.4 | 9050.9 | 9009.4 | 8153.7 | 7861.2 | 7947.8 | 7460.7 | 7341.3 |
| 65° | 7687.3 | 7625.1 | 7949.5 | 8170.1 | 8201.3 | 7779.1 | 7727.1 | 7418.3 | 6946.7 | 6778.0 |
| 67.5° | 7393.1 | 6977.9 | 6977.0 | 7102.5 | 7154.4 | 7202.8 | 7447.7 | 6842.9 | 6206.1 | 6027.9 |
| 70° | 6893.9 | 5980.3 | 5705.2 | 5853.1 | 5809.9 | 6219.1 | 6948.4 | 6034.8 | 5313.2 | 5104.7 |
| 72.5° | 5978.6 | 4745.7 | 4305.2 | 4495.6 | 4386.6 | 4877.1 | 6079.8 | 4966.3 | 4393.6 | 4137.4 |
| 75° | 4846.0 | 3549.9 | 3095.7 | 3270.5 | 3202.9 | 3699.6 | 5058.9 | 3607.0 | 3151.1 | 3053.3 |
| 77.5° | 3762.8 | 2572.3 | 2308.4 | 2284.2 | 2334.4 | 2753.1 | 3710.8 | 2435.5 | 2077.4 | 2010.7 |
| 80° | 2417.4 | 1841.1 | 1856.8 | 1825.6 | 1851.5 | 1735.6 | 2253.0 | 1553.9 | 1406.8 | 1353.2 |
| 82.5° | 1591.1 | 1283.1 | 1529.7 | 1412.0 | 1341.1 | 1167.1 | 1477.8 | 1017.4 | 863.5 | 834.0 |
| 85° | 1084.1 | 944.8 | 860.0 | 657.6 | 774.4 | 898.9 | 1108.4 | 547.7 | 434.3 | 393.7 |
| 87.5° | 489.7 | 328.7 | 241.4 | 148.9 | 235.3 | 271.6 | 538.2 | 64.0 | 49.3 | 51.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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