

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: P450447

Luminaire Tested: **GLAN-SA1B-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3467 lumens
Efficiency: N/A
Efficacy: 78.8 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

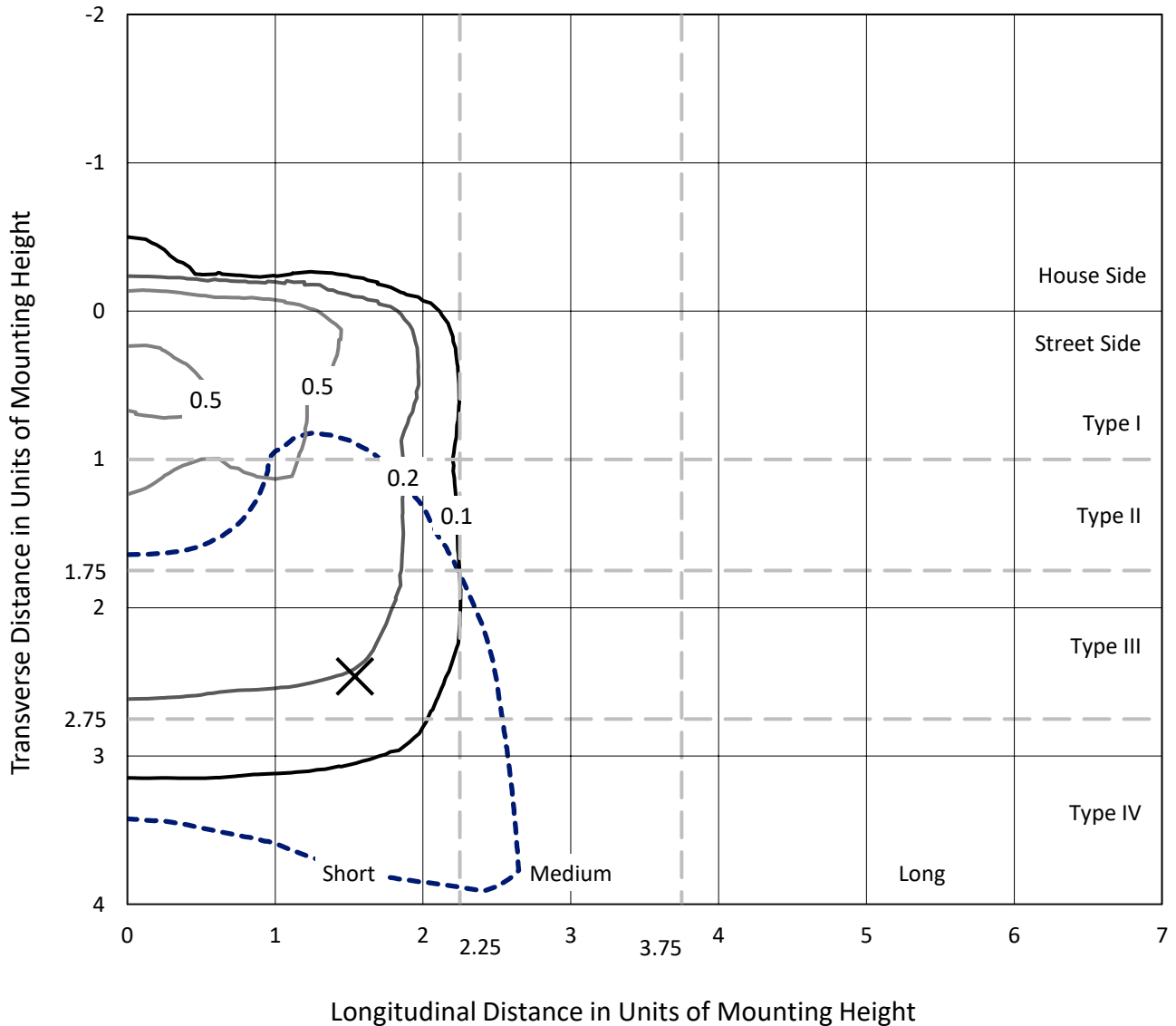
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

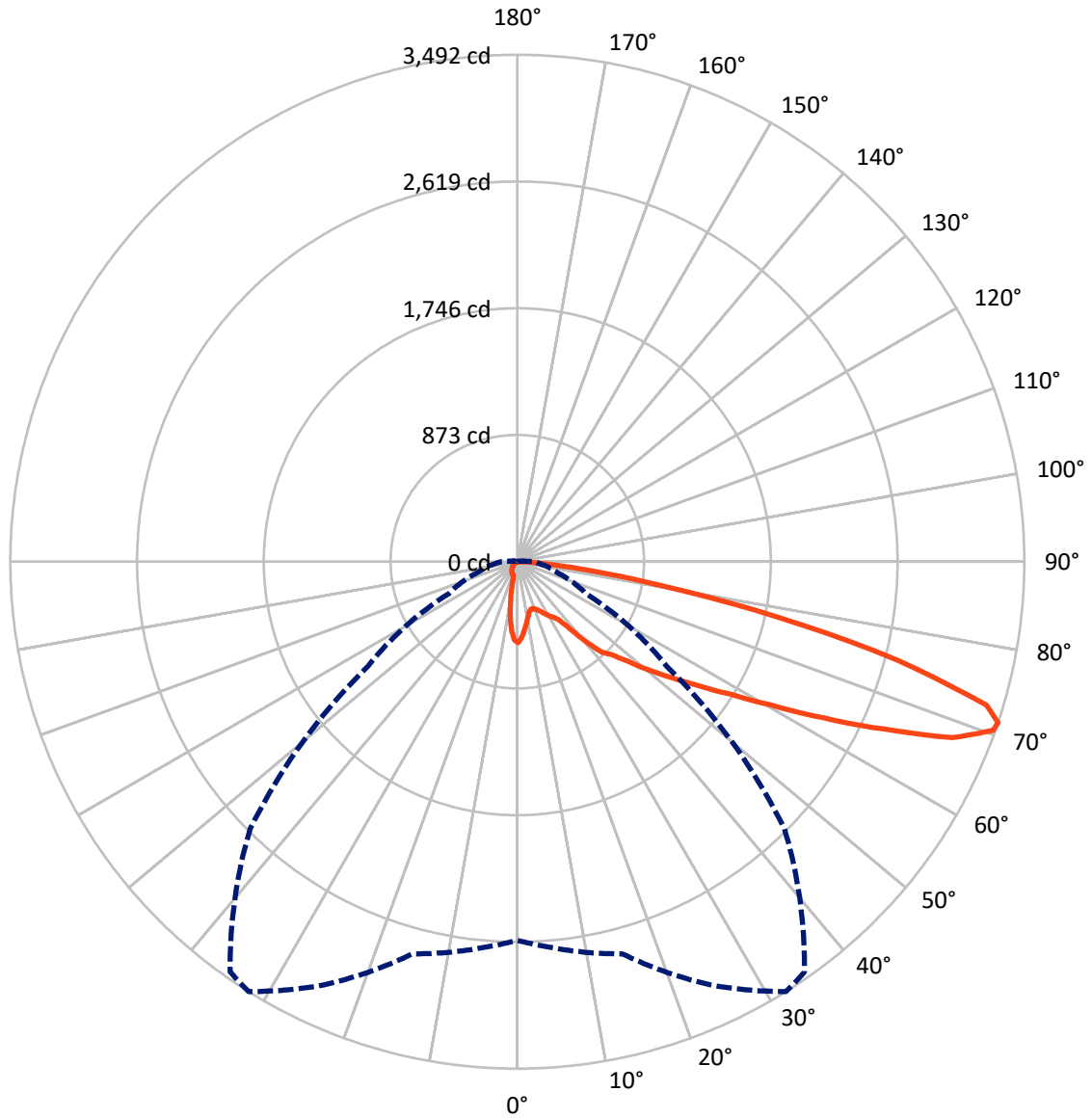
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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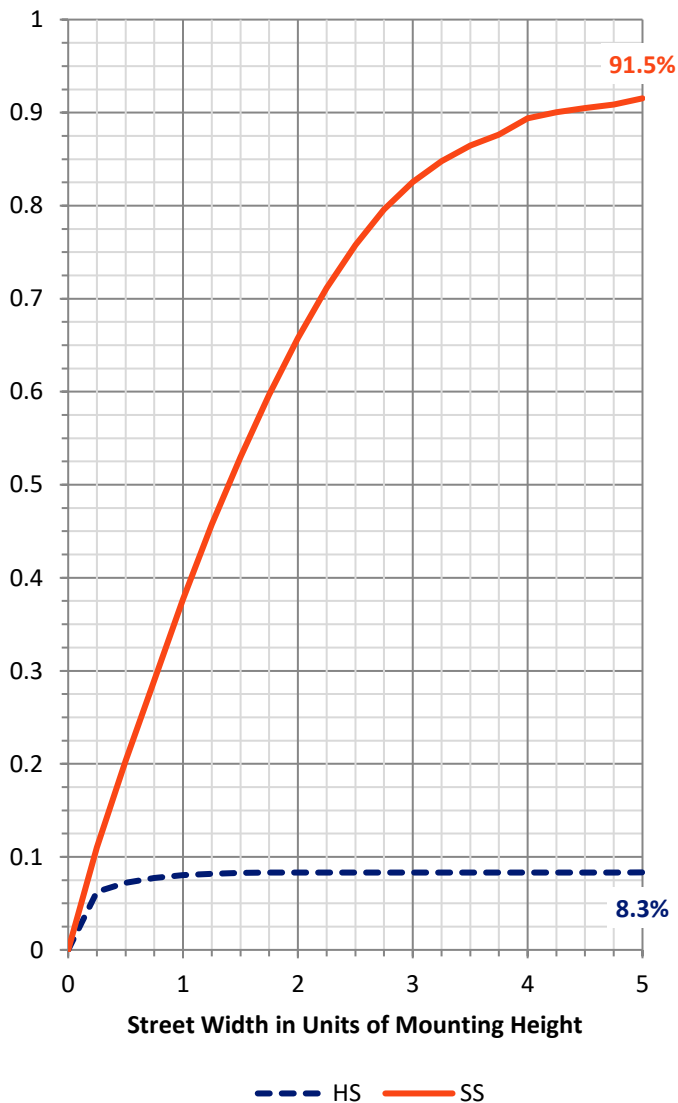
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 290.4 | 0.0 | 290.4 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 3176.6 | 0.0 | 3176.6 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 3467.0 | 0.0 | 3467.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.3 | 1.3 |
| 10°-20° | 98.4 | 2.8 |
| 20°-30° | 153.1 | 4.4 |
| 30°-40° | 255.0 | 7.4 |
| 40°-50° | 474.4 | 13.7 |
| 50°-60° | 761.6 | 22.0 |
| 60°-70° | 1024.4 | 29.5 |
| 70°-80° | 607.8 | 17.5 |
| 80°-90° | 47.0 | 1.4 |
| 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° | 3467.0 | 100.0 |
| 0°-180° | 3467.0 | 100.0 |

Coefficient of Utilization

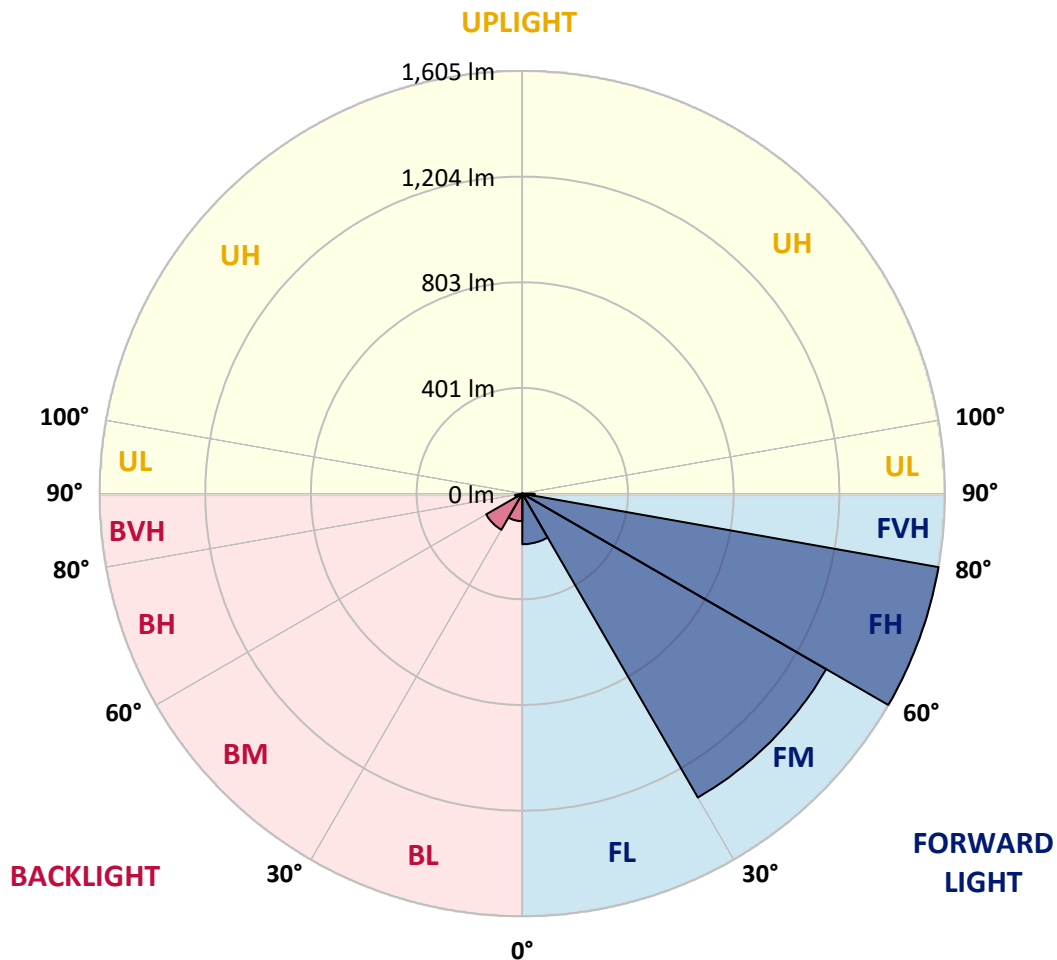


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 192.2 | 5.5 | | | |
| FM (30°-60°) | 1332.6 | 38.4 | | | |
| FH (60°-80°) | 1605.1 | 46.3 | | | G1/1800 |
| FVH (80°-90°) | 46.8 | 1.3 | | | G1/100 |
| BL (0°-30°) | 104.6 | 3.0 | B0/110 | | |
| BM (30°-60°) | 158.4 | 4.6 | B0/220 | | |
| BH (60°-80°) | 27.2 | 0.8 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.2 | 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° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 |
| 2.5° | 517.1 | 522.4 | 521.6 | 523.5 | 528.0 | 529.9 | 534.9 | 540.5 | 548.2 | 553.6 | 557.0 |
| 5° | 463.1 | 467.1 | 467.6 | 476.9 | 481.4 | 486.5 | 501.4 | 517.6 | 535.7 | 550.1 | 559.7 |
| 7.5° | 405.3 | 407.4 | 411.7 | 423.9 | 435.4 | 440.4 | 463.1 | 491.3 | 519.8 | 546.6 | 563.9 |
| 10° | 357.7 | 360.1 | 367.8 | 380.8 | 391.5 | 398.1 | 429.5 | 464.9 | 504.9 | 544.8 | 570.1 |
| 12.5° | 330.5 | 331.9 | 334.8 | 346.5 | 360.1 | 367.3 | 401.1 | 441.5 | 492.9 | 545.6 | 580.4 |
| 15° | 328.7 | 328.1 | 324.7 | 329.5 | 341.7 | 349.2 | 382.2 | 425.5 | 482.2 | 548.2 | 592.7 |
| 17.5° | 338.5 | 337.2 | 328.9 | 328.9 | 339.1 | 345.2 | 374.2 | 417.0 | 476.9 | 554.4 | 610.0 |
| 20° | 353.7 | 351.6 | 338.0 | 336.9 | 346.8 | 353.2 | 379.0 | 417.6 | 478.0 | 565.8 | 633.1 |
| 22.5° | 372.9 | 370.5 | 350.0 | 350.5 | 361.1 | 367.5 | 392.8 | 427.1 | 484.6 | 579.9 | 657.9 |
| 25° | 397.9 | 395.2 | 371.0 | 369.9 | 381.1 | 386.7 | 413.3 | 444.2 | 493.9 | 597.5 | 690.3 |
| 27.5° | 431.1 | 425.5 | 396.5 | 394.9 | 406.9 | 414.1 | 438.1 | 467.1 | 510.4 | 621.7 | 734.0 |
| 30° | 458.5 | 452.4 | 424.7 | 420.5 | 433.3 | 438.9 | 463.6 | 497.9 | 542.9 | 664.0 | 794.4 |
| 32.5° | 494.5 | 485.4 | 453.0 | 441.8 | 455.4 | 462.5 | 500.6 | 555.4 | 591.1 | 708.7 | 866.3 |
| 35° | 575.4 | 569.8 | 530.1 | 491.0 | 490.2 | 499.3 | 555.2 | 613.4 | 640.6 | 778.4 | 964.2 |
| 37.5° | 691.1 | 687.2 | 645.1 | 592.7 | 577.5 | 573.2 | 621.4 | 677.3 | 719.6 | 874.2 | 1078.1 |
| 40° | 825.5 | 816.2 | 777.6 | 733.2 | 713.5 | 701.0 | 699.7 | 772.3 | 822.9 | 1004.4 | 1196.8 |
| 42.5° | 921.9 | 904.9 | 858.0 | 854.8 | 850.6 | 837.5 | 799.7 | 911.2 | 956.2 | 1144.4 | 1323.7 |
| 45° | 1023.0 | 997.2 | 927.5 | 915.5 | 913.9 | 913.1 | 950.9 | 1075.7 | 1101.5 | 1296.1 | 1454.1 |
| 47.5° | 1101.5 | 1081.0 | 1023.8 | 1018.5 | 1025.1 | 1043.2 | 1150.8 | 1250.3 | 1245.0 | 1431.3 | 1563.5 |
| 50° | 1206.1 | 1190.7 | 1127.1 | 1137.2 | 1171.5 | 1201.1 | 1376.2 | 1440.6 | 1362.9 | 1537.7 | 1643.1 |
| 52.5° | 1329.6 | 1301.1 | 1242.0 | 1269.5 | 1322.1 | 1371.4 | 1615.4 | 1607.2 | 1445.6 | 1617.8 | 1702.5 |
| 55° | 1436.6 | 1416.4 | 1396.1 | 1424.6 | 1503.4 | 1564.9 | 1831.5 | 1732.0 | 1505.8 | 1682.2 | 1728.5 |
| 57.5° | 1617.6 | 1612.8 | 1592.0 | 1621.0 | 1716.6 | 1780.4 | 2025.0 | 1828.9 | 1544.4 | 1715.8 | 1697.9 |
| 60° | 1885.3 | 1877.6 | 1839.0 | 1876.0 | 2000.5 | 2100.9 | 2203.3 | 1915.9 | 1553.1 | 1702.7 | 1609.8 |
| 62.5° | 2207.3 | 2181.0 | 2148.0 | 2202.5 | 2373.4 | 2417.5 | 2371.2 | 1967.5 | 1520.4 | 1598.9 | 1397.5 |
| 65° | 2508.0 | 2480.9 | 2481.7 | 2596.7 | 2782.7 | 2812.8 | 2567.1 | 1959.8 | 1424.6 | 1338.9 | 1030.7 |
| 67.5° | 2738.2 | 2733.7 | 2766.2 | 2990.5 | 3233.8 | 3213.0 | 2742.2 | 1844.3 | 1140.6 | 867.9 | 547.7 |
| 70° | 2749.9 | 2758.7 | 2851.9 | 3230.6 | 3477.6 | 3444.6 | 2727.3 | 1499.1 | 711.1 | 399.2 | 215.8 |
| 71° | 2608.4 | 2667.4 | 2796.3 | 3223.1 | 3491.9 | 3449.1 | 2601.7 | 1255.6 | 521.6 | 278.4 | 155.7 |
| 72.5° | 2222.7 | 2253.9 | 2532.3 | 3033.4 | 3378.3 | 3286.7 | 2283.2 | 880.1 | 334.0 | 170.3 | 89.4 |
| 75° | 1224.2 | 1300.9 | 1695.8 | 2379.8 | 2702.0 | 2621.7 | 1487.9 | 418.1 | 166.6 | 93.1 | 37.0 |
| 77.5° | 582.8 | 567.9 | 827.4 | 1415.3 | 1832.1 | 1827.8 | 749.7 | 185.8 | 97.1 | 63.1 | 18.6 |
| 80° | 166.6 | 187.4 | 316.7 | 672.8 | 1017.2 | 1028.3 | 288.0 | 89.7 | 67.3 | 49.2 | 9.6 |
| 82.5° | 50.3 | 51.4 | 116.3 | 297.5 | 505.9 | 476.9 | 108.0 | 45.8 | 48.4 | 39.1 | 5.6 |
| 85° | 8.8 | 10.9 | 34.3 | 104.9 | 192.9 | 146.4 | 27.1 | 21.8 | 31.9 | 25.8 | 3.2 |
| 87.5° | 0.5 | 0.8 | 11.4 | 12.0 | 17.0 | 9.8 | 4.8 | 3.2 | 6.9 | 6.9 | 1.9 |
| 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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CATALOG NUMBER: GLAN-SA1B-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 |
| 2.5° | 559.4 | 561.0 | 559.9 | 557.5 | 553.6 | 548.8 | 542.4 | 537.1 | 532.5 | 530.1 | 533.1 |
| 5° | 562.9 | 565.0 | 559.7 | 547.7 | 529.6 | 509.9 | 487.6 | 470.3 | 456.7 | 452.4 | 450.8 |
| 7.5° | 568.2 | 569.5 | 555.2 | 528.5 | 490.2 | 443.6 | 402.9 | 368.6 | 342.0 | 334.0 | 322.3 |
| 10° | 575.1 | 574.3 | 547.2 | 497.7 | 430.3 | 360.3 | 297.3 | 250.4 | 215.0 | 202.3 | 201.2 |
| 12.5° | 585.8 | 581.5 | 537.1 | 455.6 | 359.0 | 267.5 | 189.5 | 148.2 | 125.9 | 118.4 | 116.8 |
| 15° | 599.1 | 589.0 | 521.1 | 406.4 | 274.9 | 172.7 | 116.8 | 104.3 | 101.4 | 100.9 | 100.3 |
| 17.5° | 614.8 | 598.8 | 500.1 | 346.0 | 193.2 | 112.0 | 97.7 | 97.4 | 97.7 | 97.1 | 96.9 |
| 20° | 636.1 | 609.2 | 475.0 | 274.4 | 127.7 | 94.5 | 93.1 | 93.1 | 93.4 | 93.1 | 93.1 |
| 22.5° | 658.7 | 621.4 | 444.2 | 209.4 | 96.3 | 89.7 | 89.4 | 90.0 | 90.5 | 90.2 | 90.2 |
| 25° | 686.6 | 637.4 | 403.5 | 143.4 | 86.2 | 85.7 | 86.0 | 87.0 | 88.1 | 88.4 | 88.1 |
| 27.5° | 727.1 | 657.1 | 359.8 | 98.7 | 79.0 | 79.6 | 82.2 | 84.9 | 86.5 | 86.8 | 86.8 |
| 30° | 772.6 | 678.9 | 302.9 | 80.1 | 73.2 | 73.2 | 76.4 | 81.4 | 84.9 | 85.4 | 85.7 |
| 32.5° | 831.1 | 704.2 | 239.8 | 72.1 | 67.6 | 67.1 | 70.0 | 76.1 | 82.5 | 84.4 | 84.4 |
| 35° | 903.5 | 734.0 | 178.3 | 67.1 | 63.6 | 62.3 | 63.9 | 68.9 | 77.2 | 82.5 | 83.0 |
| 37.5° | 988.4 | 762.2 | 130.4 | 62.5 | 59.9 | 58.0 | 59.1 | 63.1 | 69.7 | 77.7 | 79.8 |
| 40° | 1066.9 | 787.2 | 97.4 | 58.8 | 56.2 | 54.8 | 55.6 | 57.5 | 63.1 | 70.5 | 71.9 |
| 42.5° | 1152.6 | 806.6 | 77.4 | 54.8 | 52.4 | 51.9 | 51.9 | 52.7 | 56.4 | 60.7 | 60.9 |
| 45° | 1238.0 | 813.6 | 64.9 | 50.0 | 48.4 | 49.0 | 48.7 | 48.2 | 49.8 | 49.2 | 49.2 |
| 47.5° | 1299.0 | 805.3 | 53.8 | 45.5 | 45.5 | 46.3 | 45.0 | 43.1 | 42.3 | 39.1 | 39.4 |
| 50° | 1340.8 | 775.2 | 44.2 | 40.2 | 42.3 | 43.4 | 40.7 | 37.8 | 34.9 | 31.4 | 30.6 |
| 52.5° | 1358.1 | 721.8 | 36.2 | 33.3 | 37.5 | 38.9 | 35.7 | 32.2 | 27.7 | 24.8 | 24.0 |
| 55° | 1346.9 | 655.8 | 30.1 | 27.1 | 31.7 | 33.3 | 30.1 | 26.1 | 21.0 | 17.8 | 17.3 |
| 57.5° | 1297.7 | 577.0 | 25.5 | 21.6 | 25.3 | 26.3 | 24.2 | 20.0 | 14.9 | 11.7 | 11.7 |
| 60° | 1212.5 | 495.5 | 20.8 | 17.0 | 18.9 | 20.5 | 18.4 | 14.4 | 10.1 | 7.2 | 6.7 |
| 62.5° | 1039.8 | 402.4 | 16.8 | 13.3 | 13.3 | 14.6 | 12.8 | 10.4 | 6.4 | 3.7 | 3.5 |
| 65° | 750.8 | 276.0 | 13.3 | 9.8 | 9.6 | 9.6 | 8.0 | 6.9 | 3.7 | 1.6 | 1.1 |
| 67.5° | 408.0 | 155.7 | 10.6 | 7.5 | 6.7 | 6.4 | 5.1 | 4.0 | 1.6 | 0.3 | 0.0 |
| 70° | 160.5 | 59.9 | 8.3 | 5.1 | 4.3 | 4.0 | 2.7 | 1.9 | 1.1 | 0.0 | 0.0 |
| 71° | 108.8 | 41.3 | 7.2 | 4.3 | 3.5 | 2.9 | 2.1 | 1.6 | 0.8 | 0.0 | 0.0 |
| 72.5° | 62.3 | 25.5 | 5.6 | 3.2 | 2.7 | 2.1 | 1.6 | 1.1 | 0.8 | 0.0 | 0.0 |
| 75° | 27.1 | 13.0 | 3.5 | 2.4 | 1.9 | 1.3 | 1.1 | 0.8 | 0.3 | 0.0 | 0.0 |
| 77.5° | 13.8 | 7.2 | 2.4 | 1.9 | 1.1 | 0.8 | 0.5 | 0.3 | 0.0 | 0.0 | 0.0 |
| 80° | 7.7 | 3.7 | 1.6 | 1.1 | 0.8 | 0.5 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| 82.5° | 4.3 | 2.1 | 0.8 | 0.5 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.7 | 1.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.3 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 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)