

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: P649721

Luminaire Tested: **GLAN-SA1A-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1A-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2836.8 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

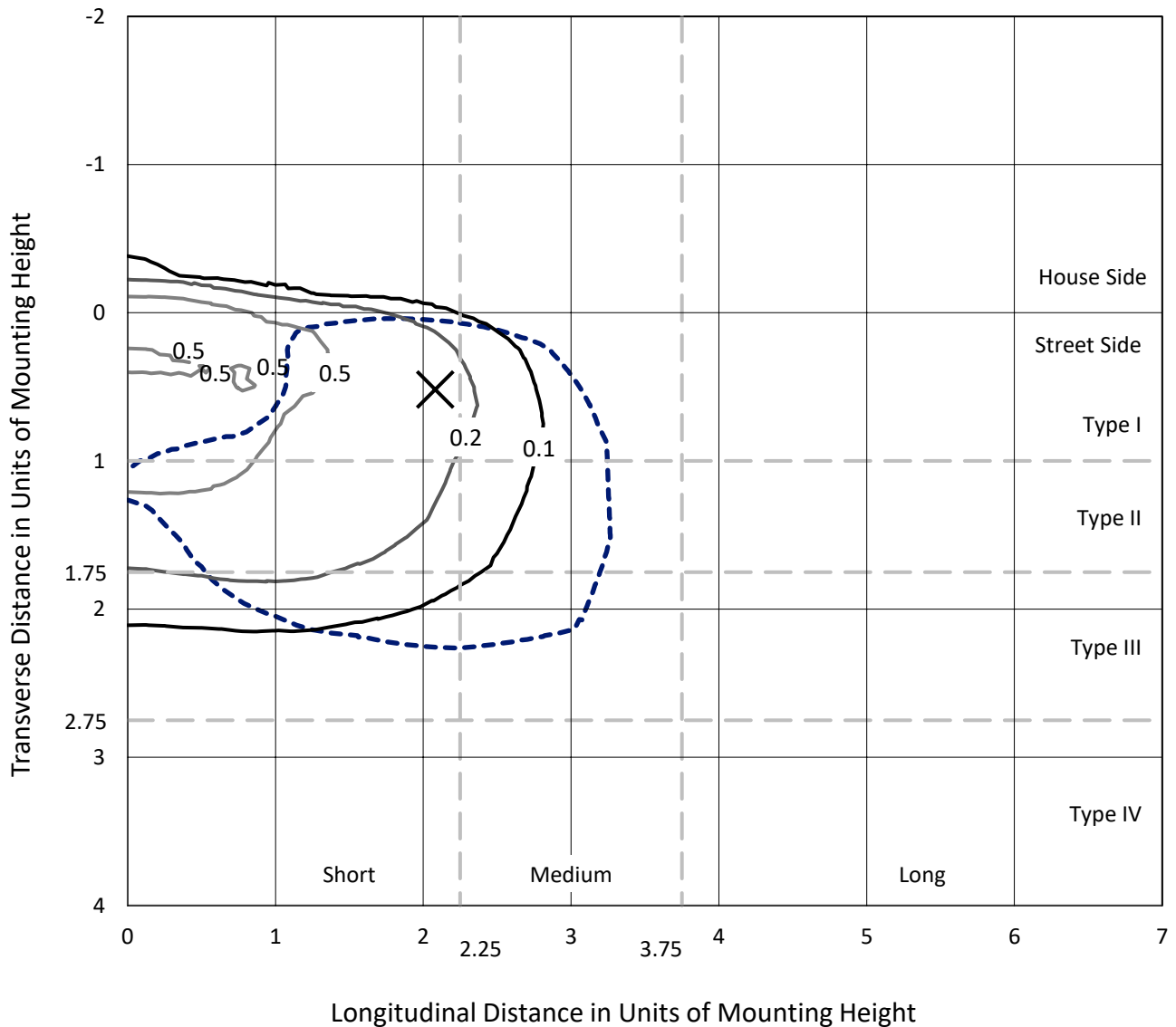
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

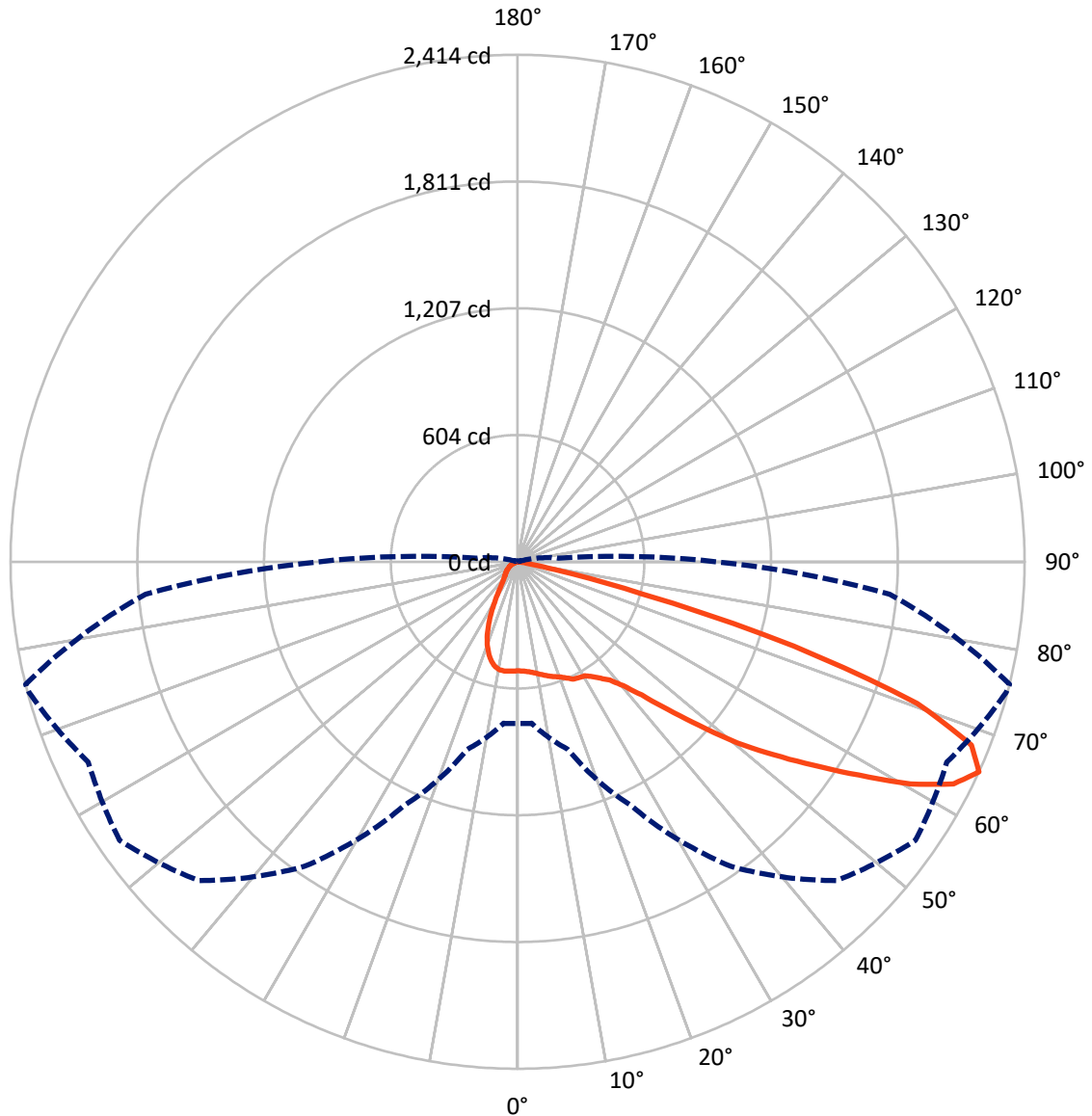
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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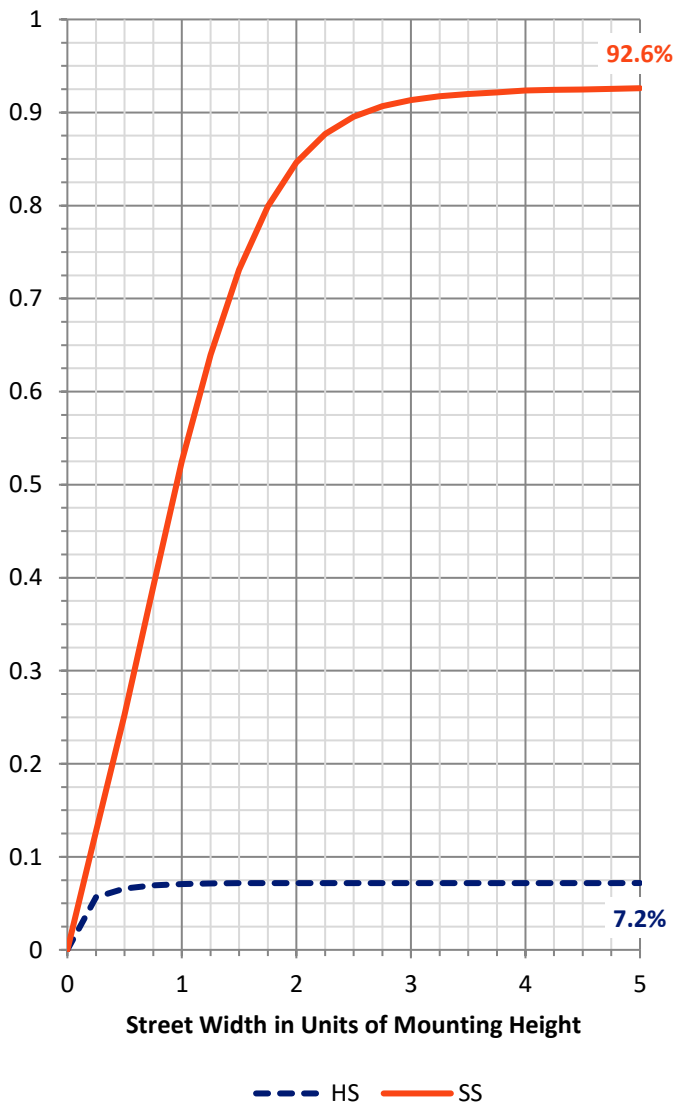
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 204.9 | 0.0 | 204.9 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 2631.9 | 0.0 | 2631.9 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 2836.8 | 0.0 | 2836.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.7 | 1.5 |
| 10°-20° | 95.2 | 3.4 |
| 20°-30° | 153.4 | 5.4 |
| 30°-40° | 266.7 | 9.4 |
| 40°-50° | 440.7 | 15.5 |
| 50°-60° | 680.8 | 24.0 |
| 60°-70° | 831.3 | 29.3 |
| 70°-80° | 315.5 | 11.1 |
| 80°-90° | 10.5 | 0.4 |
| 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° | 2836.8 | 100.0 |
| 0°-180° | 2836.8 | 100.0 |

Coefficient of Utilization



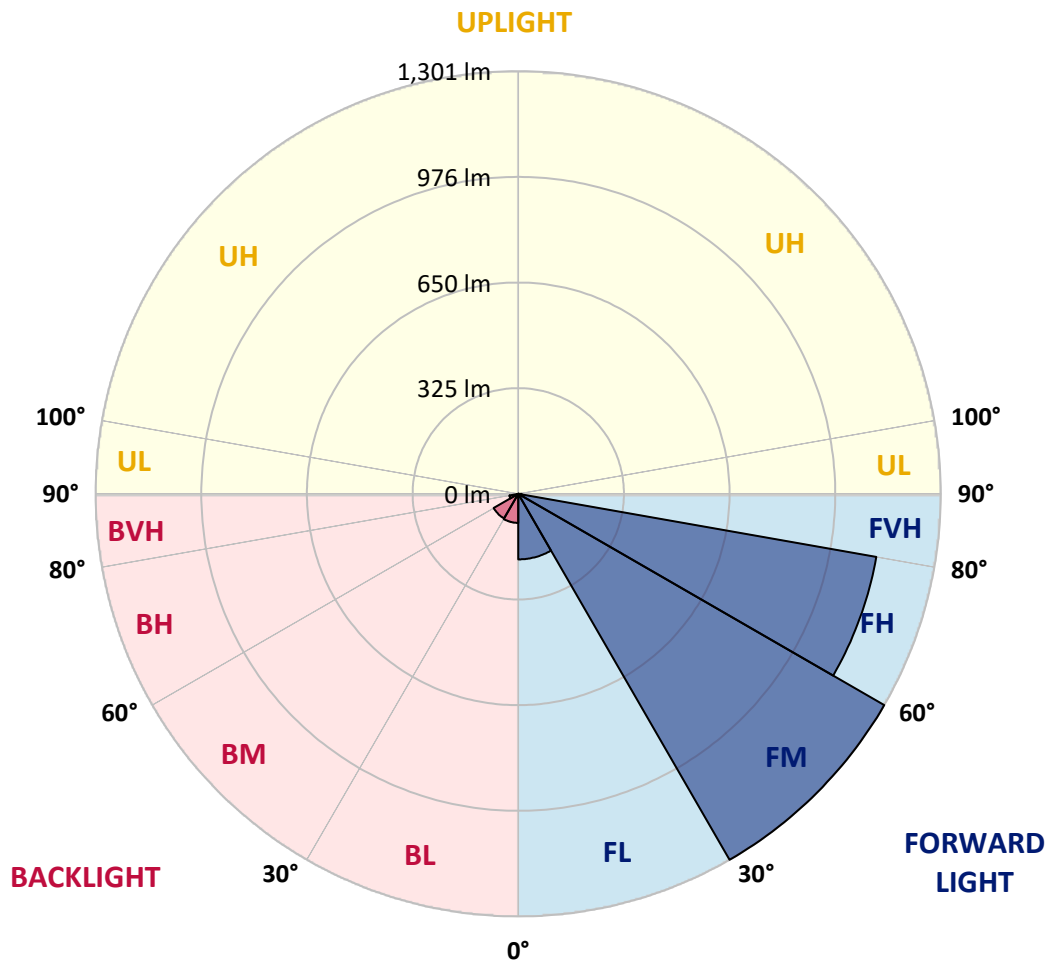
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 201.8 | 7.1 | | | |
| FM (30°-60°) | 1300.7 | 45.9 | | | |
| FH (60°-80°) | 1119.0 | 39.4 | | | G1/1800 |
| FVH (80°-90°) | 10.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 89.5 | 3.2 | B0/110 | | |
| BM (30°-60°) | 87.4 | 3.1 | B0/220 | | |
| BH (60°-80°) | 27.8 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.1 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 |
| 2.5° | 495.9 | 496.1 | 497.3 | 500.3 | 505.0 | 508.7 | 511.9 | 517.2 | 520.8 | 521.2 | 522.3 |
| 5° | 461.7 | 459.2 | 461.7 | 469.5 | 476.5 | 487.1 | 500.1 | 513.1 | 524.8 | 525.5 | 531.2 |
| 7.5° | 423.2 | 425.2 | 429.0 | 437.0 | 450.2 | 466.4 | 485.3 | 508.6 | 530.6 | 532.6 | 543.6 |
| 10° | 384.1 | 388.5 | 394.8 | 407.0 | 425.4 | 446.5 | 472.1 | 505.3 | 539.8 | 542.5 | 561.6 |
| 12.5° | 348.1 | 350.1 | 357.7 | 374.1 | 397.0 | 426.6 | 462.0 | 503.5 | 550.0 | 553.4 | 580.8 |
| 15° | 320.5 | 323.1 | 329.6 | 344.5 | 370.0 | 408.0 | 453.8 | 502.9 | 560.0 | 564.8 | 600.1 |
| 17.5° | 315.2 | 316.9 | 319.6 | 329.6 | 351.9 | 393.1 | 446.5 | 502.7 | 569.6 | 575.4 | 617.9 |
| 20° | 336.7 | 335.3 | 332.5 | 331.4 | 343.7 | 381.7 | 441.1 | 504.3 | 578.8 | 585.4 | 636.7 |
| 22.5° | 390.3 | 392.1 | 375.8 | 356.3 | 352.3 | 379.9 | 440.2 | 511.9 | 593.4 | 601.3 | 657.7 |
| 25° | 504.3 | 490.5 | 464.9 | 418.4 | 383.4 | 391.0 | 449.2 | 529.9 | 610.5 | 619.1 | 676.7 |
| 27.5° | 630.3 | 626.1 | 586.2 | 509.7 | 444.4 | 414.2 | 465.3 | 543.8 | 616.1 | 624.9 | 687.6 |
| 30° | 754.1 | 759.1 | 713.4 | 628.9 | 533.1 | 457.3 | 480.3 | 549.0 | 621.1 | 630.3 | 701.4 |
| 32.5° | 868.8 | 874.8 | 834.8 | 751.1 | 637.7 | 531.7 | 506.1 | 569.2 | 642.1 | 651.5 | 724.4 |
| 35° | 959.2 | 960.0 | 929.7 | 863.0 | 751.9 | 622.3 | 562.0 | 604.6 | 670.6 | 681.6 | 748.9 |
| 37.5° | 1042.1 | 1040.9 | 1005.5 | 948.0 | 847.0 | 712.2 | 632.3 | 645.5 | 703.0 | 714.4 | 784.1 |
| 40° | 1103.6 | 1104.3 | 1093.0 | 1038.9 | 935.8 | 795.4 | 688.0 | 683.8 | 757.5 | 775.3 | 835.4 |
| 42.5° | 1144.7 | 1152.0 | 1157.7 | 1130.2 | 1047.3 | 897.7 | 773.5 | 765.7 | 852.0 | 866.9 | 907.9 |
| 45° | 1177.9 | 1191.1 | 1219.1 | 1217.7 | 1154.5 | 1023.3 | 890.9 | 874.8 | 986.0 | 1001.8 | 1000.2 |
| 47.5° | 1202.1 | 1215.5 | 1262.0 | 1290.1 | 1255.2 | 1145.1 | 1038.5 | 1024.6 | 1146.1 | 1163.3 | 1102.2 |
| 50° | 1214.5 | 1230.6 | 1289.8 | 1344.1 | 1333.9 | 1262.4 | 1206.8 | 1207.5 | 1339.3 | 1355.9 | 1220.4 |
| 52.5° | 1185.5 | 1206.3 | 1304.6 | 1402.4 | 1422.2 | 1374.8 | 1364.4 | 1390.8 | 1511.3 | 1525.6 | 1327.1 |
| 55° | 1092.8 | 1119.0 | 1284.4 | 1452.1 | 1524.6 | 1507.4 | 1543.4 | 1583.7 | 1699.4 | 1708.7 | 1436.6 |
| 57.5° | 1034.1 | 1061.9 | 1224.8 | 1494.4 | 1647.6 | 1674.0 | 1731.1 | 1760.5 | 1893.5 | 1916.9 | 1562.4 |
| 60° | 984.6 | 1006.5 | 1175.7 | 1503.4 | 1772.6 | 1877.9 | 1933.4 | 1963.8 | 2133.0 | 2148.2 | 1700.8 |
| 62.5° | 902.3 | 927.3 | 1092.8 | 1440.5 | 1835.4 | 2041.1 | 2156.1 | 2142.4 | 2318.3 | 2329.0 | 1785.8 |
| 65° | 769.9 | 772.1 | 924.5 | 1282.4 | 1770.5 | 2147.1 | 2312.5 | 2255.4 | 2406.9 | 2414.1 | 1779.1 |
| 67.5° | 574.6 | 595.9 | 711.2 | 1008.0 | 1495.5 | 2056.5 | 2363.2 | 2258.4 | 2351.0 | 2330.9 | 1638.0 |
| 70° | 370.1 | 386.3 | 482.1 | 699.0 | 1078.3 | 1716.3 | 2195.1 | 2103.6 | 2063.4 | 2018.9 | 1340.7 |
| 72.5° | 170.9 | 191.7 | 286.4 | 399.4 | 639.6 | 1222.6 | 1782.0 | 1709.1 | 1485.1 | 1375.3 | 852.2 |
| 75° | 74.5 | 79.7 | 141.4 | 210.7 | 299.8 | 646.5 | 1174.9 | 1060.9 | 670.8 | 612.7 | 341.1 |
| 77.5° | 45.5 | 48.9 | 74.1 | 113.0 | 117.8 | 246.3 | 632.9 | 462.8 | 207.3 | 182.8 | 92.6 |
| 80° | 30.9 | 34.7 | 53.9 | 59.1 | 40.2 | 68.7 | 237.6 | 123.6 | 41.9 | 40.1 | 19.8 |
| 82.5° | 15.0 | 19.0 | 39.9 | 33.0 | 17.5 | 22.0 | 69.1 | 26.5 | 12.2 | 11.4 | 7.0 |
| 85° | 2.2 | 3.8 | 22.4 | 21.6 | 7.8 | 5.2 | 12.2 | 6.6 | 4.2 | 4.0 | 3.2 |
| 87.5° | 0.0 | 0.0 | 7.6 | 3.4 | 0.8 | 0.8 | 1.4 | 1.4 | 1.6 | 1.4 | 1.6 |
| 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-SA1A-835-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 |
| 2.5° | 523.0 | 524.0 | 520.1 | 514.7 | 509.0 | 503.2 | 494.9 | 487.5 | 483.1 | 485.7 | 479.3 |
| 5° | 532.4 | 531.6 | 521.6 | 505.1 | 483.3 | 457.0 | 431.0 | 408.8 | 401.6 | 390.8 | 389.5 |
| 7.5° | 545.4 | 543.2 | 521.9 | 484.3 | 435.0 | 385.8 | 337.7 | 305.8 | 287.6 | 272.2 | 272.6 |
| 10° | 563.6 | 557.2 | 517.3 | 447.6 | 366.5 | 292.2 | 230.9 | 188.9 | 170.6 | 164.8 | 160.2 |
| 12.5° | 582.4 | 570.0 | 504.5 | 398.2 | 285.4 | 199.7 | 140.4 | 114.8 | 103.5 | 99.9 | 99.5 |
| 15° | 599.2 | 579.7 | 482.1 | 338.6 | 207.5 | 127.6 | 95.8 | 87.3 | 85.9 | 86.1 | 85.9 |
| 17.5° | 615.9 | 587.2 | 451.0 | 275.6 | 141.0 | 91.5 | 82.3 | 80.3 | 80.9 | 81.7 | 81.5 |
| 20° | 629.7 | 588.8 | 411.4 | 210.3 | 99.8 | 80.3 | 77.3 | 76.9 | 77.5 | 78.1 | 78.1 |
| 22.5° | 644.7 | 590.1 | 364.3 | 145.6 | 81.5 | 74.7 | 73.1 | 73.1 | 73.9 | 74.7 | 74.9 |
| 25° | 655.9 | 583.4 | 308.0 | 104.5 | 71.9 | 69.3 | 68.5 | 68.7 | 69.5 | 69.9 | 69.7 |
| 27.5° | 657.7 | 564.8 | 248.4 | 80.1 | 65.3 | 62.7 | 61.9 | 62.7 | 61.7 | 62.3 | 61.9 |
| 30° | 659.4 | 541.2 | 187.8 | 67.5 | 59.3 | 55.3 | 54.1 | 52.9 | 52.1 | 51.1 | 50.9 |
| 32.5° | 664.4 | 513.3 | 137.2 | 60.7 | 53.7 | 49.3 | 46.4 | 43.1 | 40.5 | 39.6 | 39.5 |
| 35° | 666.6 | 479.9 | 100.8 | 55.3 | 48.7 | 43.8 | 38.8 | 34.1 | 30.2 | 28.8 | 29.8 |
| 37.5° | 674.9 | 447.4 | 78.1 | 51.3 | 44.2 | 38.3 | 31.9 | 25.8 | 22.2 | 21.5 | 21.8 |
| 40° | 692.2 | 412.2 | 65.5 | 47.8 | 40.5 | 33.0 | 25.2 | 19.4 | 17.0 | 16.2 | 16.1 |
| 42.5° | 719.8 | 377.2 | 58.3 | 44.6 | 36.6 | 27.9 | 19.8 | 15.2 | 13.2 | 12.6 | 12.6 |
| 45° | 753.5 | 343.5 | 53.2 | 41.3 | 32.7 | 22.4 | 15.7 | 12.2 | 11.0 | 10.6 | 10.6 |
| 47.5° | 797.7 | 314.1 | 49.1 | 37.8 | 28.3 | 17.9 | 12.6 | 10.6 | 9.8 | 10.0 | 10.2 |
| 50° | 842.6 | 292.2 | 44.5 | 34.1 | 23.3 | 14.6 | 10.8 | 9.4 | 9.2 | 9.4 | 9.4 |
| 52.5° | 876.5 | 279.4 | 38.3 | 28.8 | 18.2 | 12.2 | 9.6 | 8.8 | 8.6 | 8.2 | 8.2 |
| 55° | 922.1 | 276.6 | 30.5 | 23.4 | 14.4 | 10.2 | 8.6 | 8.0 | 7.4 | 7.0 | 6.8 |
| 57.5° | 980.8 | 279.8 | 23.4 | 18.2 | 11.2 | 8.4 | 7.6 | 6.6 | 5.8 | 5.0 | 5.0 |
| 60° | 1017.3 | 272.6 | 18.2 | 14.0 | 8.2 | 6.8 | 5.8 | 4.8 | 3.8 | 3.2 | 3.0 |
| 62.5° | 1005.6 | 242.2 | 14.4 | 10.4 | 5.8 | 5.0 | 3.8 | 3.2 | 2.2 | 1.6 | 1.4 |
| 65° | 945.8 | 195.5 | 11.6 | 7.2 | 4.2 | 3.0 | 2.0 | 2.0 | 1.0 | 0.2 | 0.0 |
| 67.5° | 827.8 | 144.8 | 9.2 | 4.8 | 2.4 | 1.4 | 1.0 | 0.6 | 0.0 | 0.0 | 0.0 |
| 70° | 673.8 | 104.5 | 7.2 | 3.0 | 1.4 | 1.0 | 0.4 | 0.2 | 0.0 | 0.0 | 0.0 |
| 72.5° | 427.8 | 59.9 | 5.6 | 1.8 | 1.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 165.4 | 23.4 | 3.8 | 1.2 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 46.9 | 11.0 | 2.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 12.2 | 4.8 | 1.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 5.8 | 2.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 3.4 | 0.8 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.6 | 0.2 | 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)