

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: P648990

Luminaire Tested: **GLAN-SA6C-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6C-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23443 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

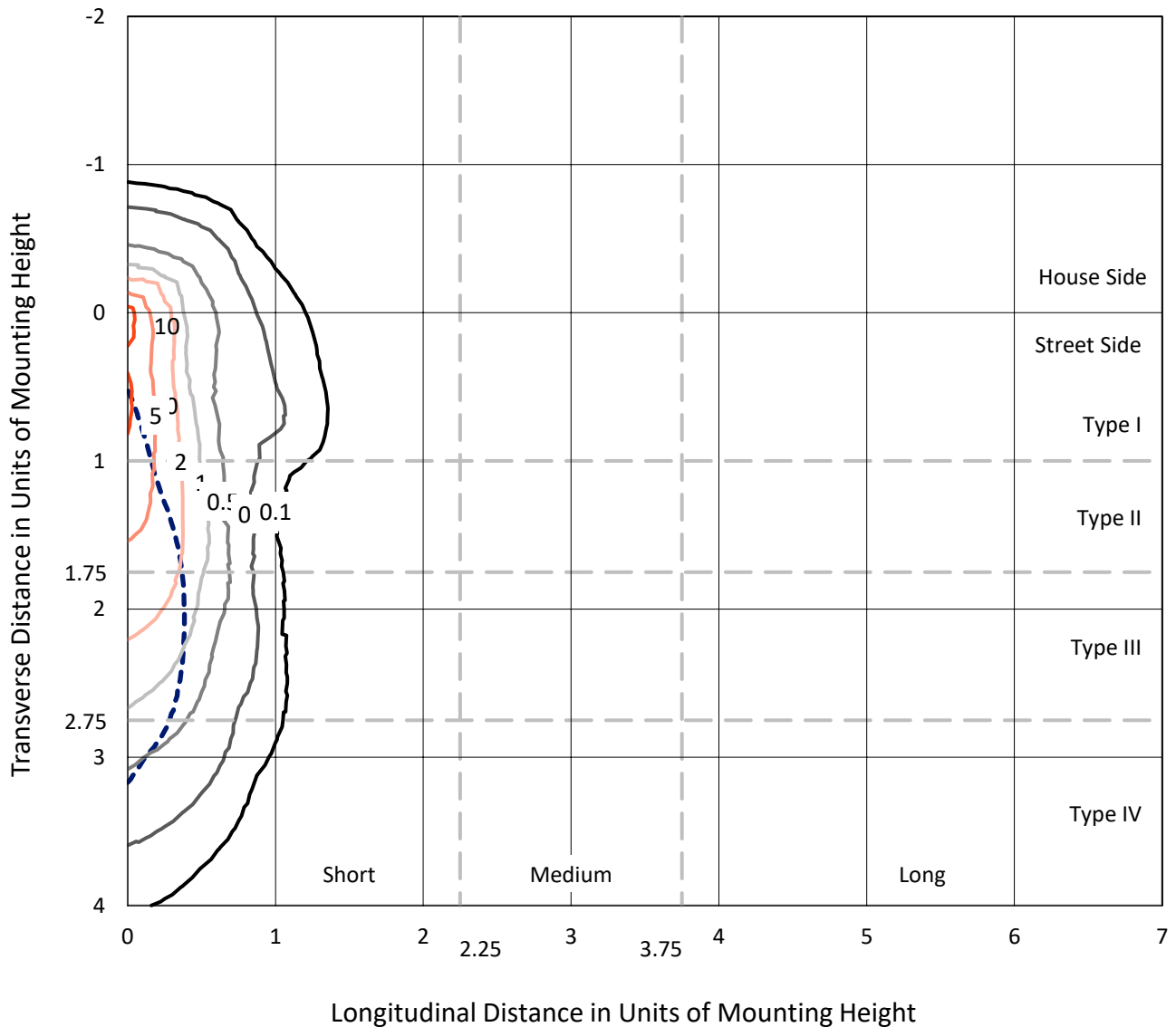
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

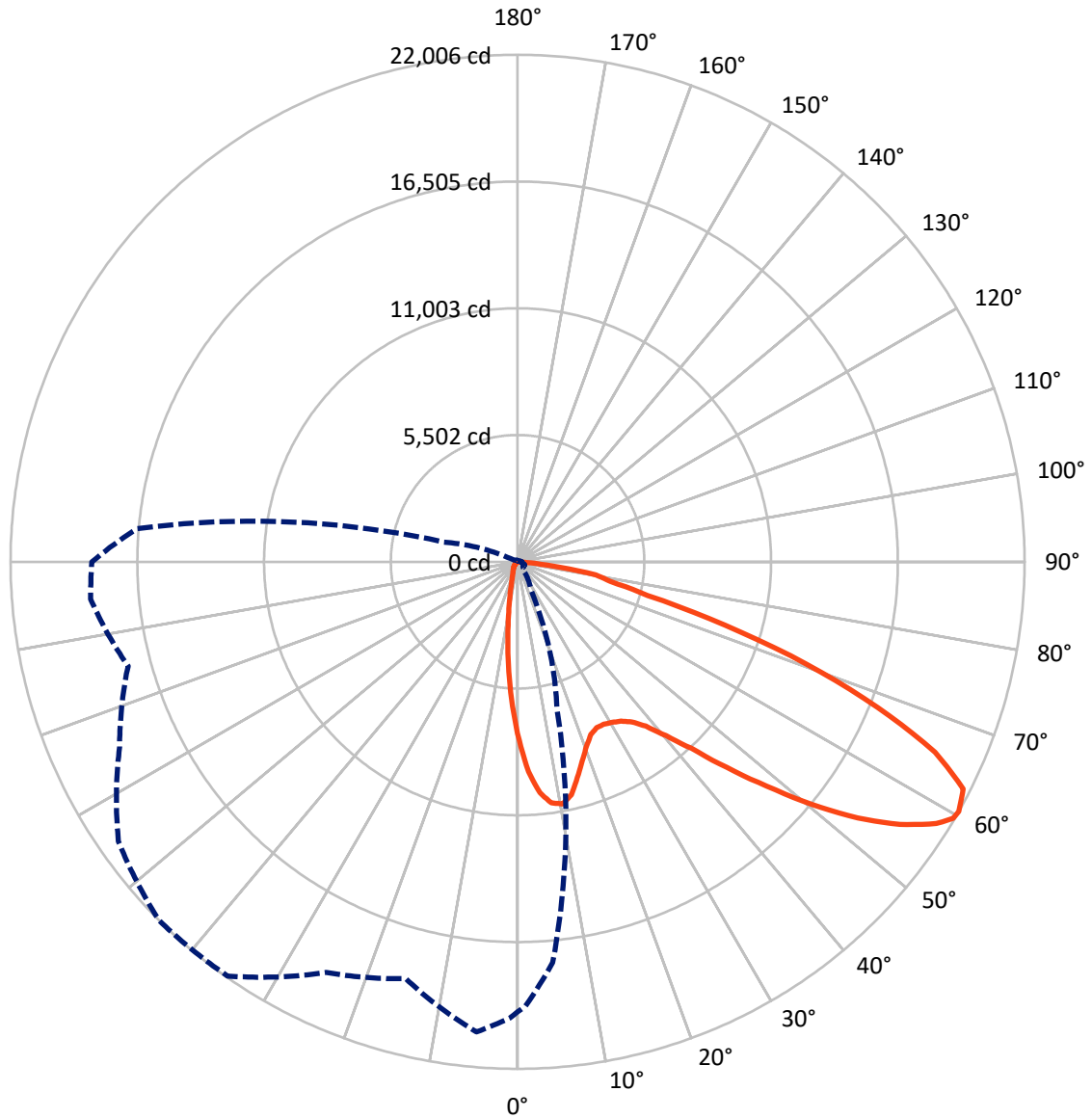
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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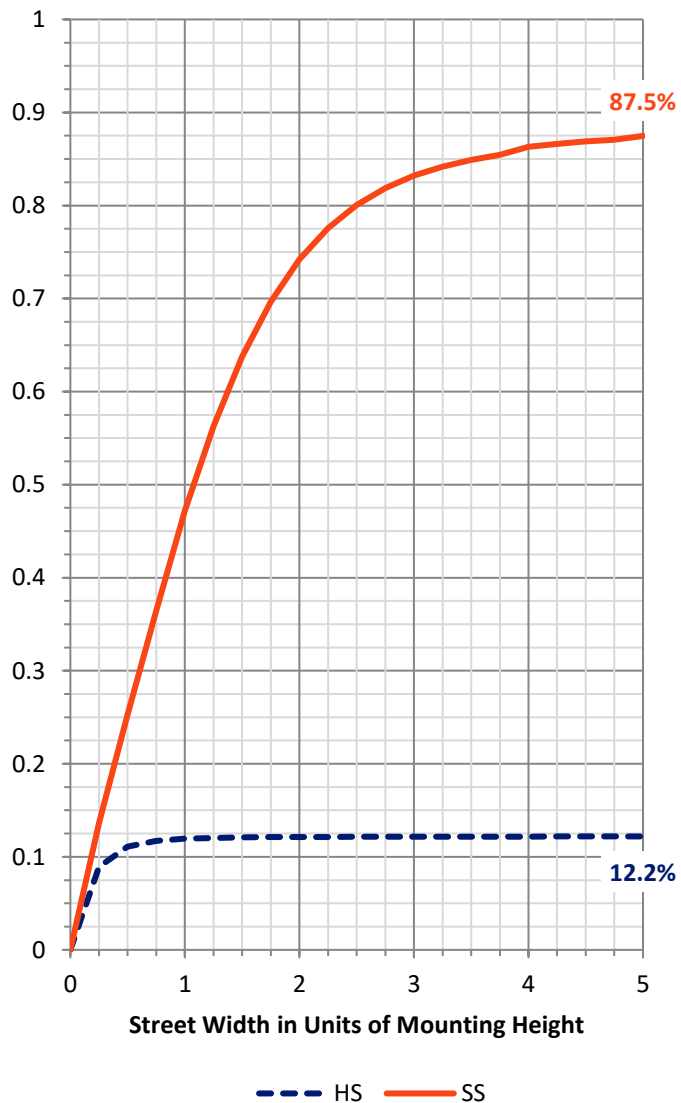
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2891.5 | 0.0 | 2891.5 |
| | % Fixture | 12.3 | 0.0 | 12.3 |
| Street Side | Lumens | 20551.6 | 0.0 | 20551.6 |
| | % Fixture | 87.7 | 0.0 | 87.7 |
| Total | Lumens | 23443.0 | 0.0 | 23443.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 576.3 | 2.5 |
| 10°-20° | 1144.5 | 4.9 |
| 20°-30° | 1678.2 | 7.2 |
| 30°-40° | 2495.7 | 10.6 |
| 40°-50° | 3632.1 | 15.5 |
| 50°-60° | 5237.7 | 22.3 |
| 60°-70° | 5760.9 | 24.6 |
| 70°-80° | 2580.4 | 11.0 |
| 80°-90° | 337.2 | 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° | 23443.0 | 100.0 |
| 0°-180° | 23443.0 | 100.0 |

Coefficient of Utilization

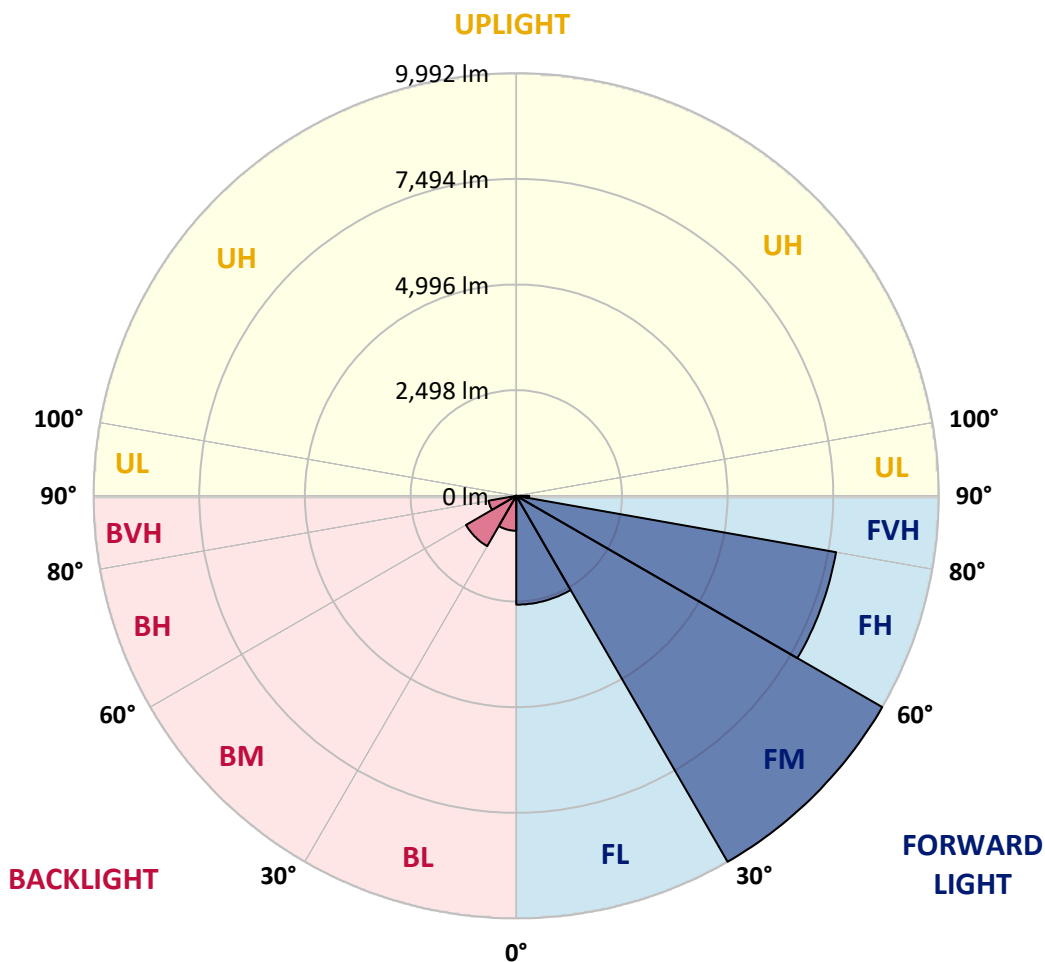


REPORT NUMBER: P648990
 CATALOG NUMBER: GLAN-SA6C-835-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2572.8 | 11.0 | | | |
| FM (30°-60°) | 9992.1 | 42.6 | | | |
| FH (60°-80°) | 7678.3 | 32.8 | | | G4/12000 |
| FVH (80°-90°) | 308.3 | 1.3 | | | G3/500 |
| BL (0°-30°) | 826.2 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 1373.4 | 5.9 | B2/2500 | | |
| BH (60°-80°) | 663.1 | 2.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 28.8 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type IV Short





REPORT NUMBER: P648990

CATALOG NUMBER: GLAN-SA6C-835-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 |
| 2.5° | 8518.1 | 8480.7 | 8395.1 | 8135.0 | 7908.6 | 7612.8 | 7313.5 | 7078.2 | 6933.9 | 6668.3 | 6547.1 |
| 5° | 8252.6 | 8270.4 | 8022.7 | 7488.1 | 6892.9 | 6486.6 | 6042.9 | 5690.0 | 5301.5 | 5055.6 | 4797.2 |
| 7.5° | 7559.4 | 7523.7 | 7254.7 | 6509.7 | 5786.2 | 5198.2 | 4636.8 | 4180.7 | 3893.7 | 3663.8 | 3471.4 |
| 10° | 6966.0 | 6939.2 | 6595.3 | 5636.6 | 4859.6 | 4419.4 | 4039.9 | 3640.7 | 3332.4 | 2995.6 | 2726.5 |
| 12.5° | 6593.5 | 6532.9 | 6137.3 | 5135.8 | 4503.2 | 4093.3 | 3679.9 | 3264.6 | 2838.8 | 2498.4 | 2172.3 |
| 15° | 6468.8 | 6381.4 | 5941.2 | 4963.0 | 4275.1 | 3754.7 | 3236.1 | 2758.6 | 2268.5 | 1892.5 | 1646.6 |
| 17.5° | 6695.0 | 6550.7 | 6082.0 | 4932.7 | 4002.5 | 3312.8 | 2674.8 | 2052.9 | 1543.2 | 1256.3 | 1104.9 |
| 20° | 7213.6 | 7047.9 | 6438.5 | 4902.4 | 3699.5 | 2817.4 | 2033.3 | 1450.6 | 1067.5 | 910.6 | 826.8 |
| 22.5° | 7983.5 | 7755.4 | 6966.0 | 4950.4 | 3419.7 | 2334.4 | 1468.4 | 1024.6 | 848.2 | 750.3 | 691.4 |
| 25° | 8908.3 | 8717.7 | 7634.2 | 5121.5 | 3198.7 | 1954.9 | 1135.1 | 837.6 | 714.6 | 654.0 | 609.5 |
| 27.5° | 9922.3 | 9617.6 | 8498.5 | 5326.5 | 2997.4 | 1660.8 | 996.1 | 748.5 | 636.2 | 580.9 | 557.8 |
| 30° | 10644.0 | 10407.0 | 9222.0 | 5469.0 | 2746.1 | 1439.9 | 910.6 | 737.7 | 638.0 | 572.1 | 529.2 |
| 32.5° | 11356.9 | 11053.9 | 9827.9 | 5534.9 | 2562.5 | 1286.6 | 787.6 | 643.3 | 559.5 | 525.7 | 483.0 |
| 35° | 12119.6 | 11802.4 | 10432.0 | 5499.3 | 2425.3 | 1185.1 | 714.6 | 573.8 | 479.4 | 422.4 | 379.6 |
| 37.5° | 12891.2 | 12556.2 | 11032.5 | 5371.1 | 2339.8 | 1144.0 | 657.6 | 545.3 | 452.7 | 393.8 | 347.5 |
| 40° | 13807.1 | 13359.9 | 11595.7 | 5265.9 | 2250.7 | 1122.7 | 620.1 | 527.5 | 433.0 | 370.7 | 324.3 |
| 42.5° | 14555.6 | 14129.7 | 12128.5 | 5210.6 | 2190.1 | 1072.8 | 620.1 | 513.3 | 420.5 | 351.1 | 302.9 |
| 45° | 15264.8 | 14822.9 | 12704.1 | 5255.2 | 2165.2 | 1010.4 | 627.3 | 511.5 | 411.6 | 336.8 | 288.7 |
| 47.5° | 15858.3 | 15475.1 | 13295.7 | 5422.7 | 2133.0 | 942.7 | 589.8 | 536.4 | 406.3 | 324.3 | 274.4 |
| 50° | 16558.6 | 16187.9 | 14078.0 | 5761.3 | 2076.0 | 875.0 | 543.5 | 577.4 | 404.5 | 313.7 | 262.0 |
| 52.5° | 17545.9 | 17144.9 | 15157.9 | 6146.2 | 1985.1 | 771.6 | 500.7 | 572.1 | 397.4 | 295.8 | 249.5 |
| 55° | 18752.3 | 18427.9 | 16408.9 | 6607.7 | 1860.4 | 655.8 | 433.0 | 507.9 | 376.0 | 265.5 | 228.1 |
| 57.5° | 19525.7 | 19249.4 | 17346.3 | 6807.3 | 1669.7 | 536.4 | 381.3 | 425.9 | 343.9 | 237.0 | 203.2 |
| 59° | 19616.6 | 19367.0 | 17542.3 | 6741.4 | 1545.0 | 490.1 | 356.4 | 365.3 | 335.0 | 221.0 | 188.9 |
| 60° | 19539.9 | 19281.5 | 17463.9 | 6613.1 | 1429.2 | 458.0 | 335.0 | 324.3 | 336.8 | 212.0 | 178.2 |
| 62.5° | 19048.1 | 18606.1 | 16703.0 | 5962.6 | 1249.2 | 420.5 | 297.6 | 265.5 | 297.6 | 190.7 | 158.6 |
| 65° | 18098.3 | 17435.4 | 15197.1 | 5046.7 | 1177.9 | 399.2 | 253.1 | 222.8 | 226.3 | 167.5 | 137.2 |
| 67.5° | 16439.2 | 15603.4 | 13192.4 | 4100.4 | 1147.6 | 401.0 | 213.8 | 199.6 | 174.6 | 142.6 | 121.2 |
| 70° | 13816.0 | 12982.1 | 10585.2 | 3373.4 | 1133.4 | 401.0 | 181.7 | 171.1 | 146.1 | 119.4 | 105.2 |
| 72.5° | 9790.5 | 8892.3 | 7140.6 | 2649.9 | 1021.1 | 399.2 | 155.0 | 155.0 | 119.4 | 99.8 | 85.5 |
| 75° | 5531.4 | 5538.6 | 4488.9 | 1874.7 | 848.2 | 329.6 | 124.7 | 122.9 | 87.3 | 76.7 | 64.1 |
| 77.5° | 3223.7 | 3166.7 | 3025.9 | 805.5 | 393.8 | 149.7 | 87.3 | 74.9 | 60.6 | 55.3 | 46.4 |
| 80° | 1657.3 | 1363.3 | 1327.6 | 292.2 | 140.8 | 94.4 | 60.6 | 42.8 | 39.2 | 35.6 | 32.1 |
| 82.5° | 490.1 | 491.8 | 438.4 | 117.6 | 78.4 | 62.4 | 30.3 | 23.2 | 21.4 | 19.6 | 19.6 |
| 85° | 33.8 | 21.4 | 25.0 | 35.6 | 48.1 | 25.0 | 1.8 | 5.3 | 5.3 | 7.1 | 8.9 |
| 87.5° | 3.6 | 1.8 | 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 |



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CATALOG NUMBER: GLAN-SA6C-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 |
| 2.5° | 6413.6 | 6491.9 | 6345.8 | 6349.3 | 6228.2 | 6267.4 | 6124.9 | 6171.1 | 6087.4 | 6151.6 | 6340.4 |
| 5° | 4825.7 | 4843.6 | 4726.0 | 4688.5 | 4706.3 | 4779.4 | 4807.9 | 4677.8 | 4733.1 | 4624.4 | 4617.2 |
| 7.5° | 3400.1 | 3421.5 | 3353.7 | 3344.9 | 3473.2 | 3442.9 | 3498.1 | 3364.5 | 3237.9 | 3293.2 | 3191.6 |
| 10° | 2641.0 | 2551.9 | 2412.9 | 2373.7 | 2348.7 | 2364.7 | 2364.7 | 2243.6 | 2225.8 | 2177.6 | 2250.7 |
| 12.5° | 2085.0 | 1976.3 | 1844.4 | 1666.2 | 1621.7 | 1618.1 | 1552.1 | 1445.3 | 1411.4 | 1370.4 | 1430.9 |
| 15° | 1514.7 | 1470.2 | 1359.7 | 1259.9 | 1158.3 | 1138.7 | 1031.8 | 944.5 | 828.6 | 812.6 | 807.3 |
| 17.5° | 1065.7 | 999.7 | 997.9 | 940.9 | 882.1 | 842.9 | 743.1 | 643.3 | 598.8 | 593.4 | 593.4 |
| 20° | 798.3 | 775.2 | 737.7 | 730.6 | 712.8 | 668.3 | 579.2 | 525.7 | 504.3 | 506.1 | 513.3 |
| 22.5° | 671.8 | 655.8 | 621.9 | 605.9 | 598.8 | 559.5 | 493.6 | 458.0 | 447.3 | 447.3 | 449.1 |
| 25° | 600.6 | 586.3 | 548.9 | 523.9 | 515.0 | 486.5 | 434.8 | 408.1 | 399.2 | 399.2 | 399.2 |
| 27.5° | 547.1 | 529.2 | 490.1 | 468.7 | 452.7 | 420.5 | 388.4 | 361.7 | 352.8 | 352.8 | 354.6 |
| 30° | 509.7 | 490.1 | 454.5 | 425.9 | 401.0 | 372.5 | 345.7 | 322.5 | 311.9 | 310.1 | 311.9 |
| 32.5° | 459.8 | 441.9 | 406.3 | 388.4 | 359.9 | 326.1 | 304.7 | 283.4 | 272.6 | 274.4 | 272.6 |
| 35° | 358.2 | 352.8 | 327.9 | 333.2 | 317.2 | 288.7 | 269.1 | 245.9 | 233.4 | 231.7 | 235.2 |
| 37.5° | 326.1 | 304.7 | 276.2 | 278.0 | 272.6 | 262.0 | 229.9 | 204.9 | 196.0 | 196.0 | 197.8 |
| 40° | 301.1 | 279.8 | 247.7 | 231.7 | 233.4 | 233.4 | 199.6 | 172.9 | 164.0 | 162.2 | 165.8 |
| 42.5° | 279.8 | 258.4 | 222.8 | 196.0 | 188.9 | 197.8 | 169.3 | 142.6 | 133.7 | 130.1 | 133.7 |
| 45° | 265.5 | 242.3 | 201.4 | 171.1 | 149.7 | 160.4 | 139.0 | 117.6 | 107.0 | 107.0 | 105.2 |
| 47.5° | 251.3 | 229.9 | 185.3 | 147.9 | 124.7 | 119.4 | 114.1 | 94.4 | 83.8 | 82.0 | 83.8 |
| 50° | 238.8 | 217.4 | 167.5 | 128.3 | 105.2 | 92.6 | 92.6 | 74.9 | 67.7 | 64.1 | 65.9 |
| 52.5° | 226.3 | 203.2 | 151.5 | 114.1 | 90.9 | 74.9 | 65.9 | 60.6 | 55.3 | 53.5 | 55.3 |
| 55° | 208.5 | 185.3 | 135.5 | 98.0 | 78.4 | 62.4 | 51.7 | 49.9 | 46.4 | 42.8 | 46.4 |
| 57.5° | 187.1 | 165.8 | 119.4 | 83.8 | 62.4 | 48.1 | 42.8 | 41.0 | 37.4 | 35.6 | 35.6 |
| 59° | 174.6 | 155.0 | 110.5 | 73.1 | 55.3 | 42.8 | 39.2 | 37.4 | 33.8 | 30.3 | 32.1 |
| 60° | 167.5 | 151.5 | 105.2 | 67.7 | 49.9 | 39.2 | 35.6 | 33.8 | 30.3 | 28.5 | 30.3 |
| 62.5° | 147.9 | 135.5 | 92.6 | 55.3 | 39.2 | 28.5 | 25.0 | 26.7 | 25.0 | 23.2 | 25.0 |
| 65° | 130.1 | 119.4 | 78.4 | 42.8 | 30.3 | 19.6 | 17.9 | 23.2 | 21.4 | 19.6 | 21.4 |
| 67.5° | 115.8 | 103.4 | 65.9 | 32.1 | 21.4 | 10.7 | 12.4 | 19.6 | 19.6 | 17.9 | 19.6 |
| 70° | 99.8 | 89.1 | 53.5 | 23.2 | 10.7 | 5.3 | 8.9 | 14.3 | 17.9 | 16.1 | 17.9 |
| 72.5° | 82.0 | 69.5 | 41.0 | 16.1 | 5.3 | 0.0 | 5.3 | 12.4 | 17.9 | 16.1 | 17.9 |
| 75° | 64.1 | 51.7 | 30.3 | 8.9 | 0.0 | 0.0 | 1.8 | 10.7 | 17.9 | 16.1 | 17.9 |
| 77.5° | 46.4 | 37.4 | 17.9 | 1.8 | 0.0 | 0.0 | 1.8 | 10.7 | 17.9 | 16.1 | 17.9 |
| 80° | 30.3 | 26.7 | 7.1 | 0.0 | 0.0 | 0.0 | 1.8 | 10.7 | 17.9 | 17.9 | 19.6 |
| 82.5° | 19.6 | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 14.3 | 19.6 | 21.4 | 21.4 |
| 85° | 8.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.1 | 17.9 | 23.2 | 23.2 | 23.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 12.4 | 21.4 | 26.7 | 26.7 | 26.7 |
| 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-SA6C-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 |
| 2.5° | 6372.5 | 6484.8 | 6643.4 | 6887.5 | 7085.4 | 7397.2 | 7636.0 | 7962.1 | 8291.7 | 8391.6 | 8546.6 |
| 5° | 4690.3 | 4834.6 | 5194.6 | 5522.5 | 5729.2 | 6388.6 | 6805.5 | 7463.2 | 8053.0 | 8336.3 | 8644.6 |
| 7.5° | 3257.5 | 3428.6 | 3703.0 | 4161.0 | 4595.8 | 5132.3 | 5805.9 | 6557.9 | 7422.1 | 7826.6 | 8261.5 |
| 10° | 2286.4 | 2500.2 | 2886.9 | 3262.9 | 3810.0 | 4319.7 | 4984.3 | 5814.8 | 6768.2 | 7245.7 | 7791.0 |
| 12.5° | 1443.5 | 1634.1 | 2145.6 | 2567.9 | 3250.4 | 3842.0 | 4455.0 | 5207.1 | 6311.9 | 6802.0 | 7374.1 |
| 15° | 825.0 | 985.5 | 1224.2 | 1766.0 | 2523.4 | 3305.7 | 4070.1 | 4943.3 | 6078.5 | 6682.6 | 7300.9 |
| 17.5° | 614.8 | 657.6 | 764.5 | 1071.0 | 1760.7 | 2674.8 | 3715.5 | 4863.1 | 6237.1 | 6946.3 | 7652.0 |
| 20° | 516.8 | 545.3 | 595.2 | 716.4 | 1122.7 | 2060.0 | 3369.8 | 4877.4 | 6750.3 | 7641.3 | 8311.4 |
| 22.5° | 463.3 | 481.2 | 522.1 | 600.6 | 766.2 | 1500.5 | 2965.3 | 4961.2 | 7372.3 | 8494.9 | 9268.3 |
| 25° | 406.3 | 429.5 | 465.1 | 532.8 | 638.0 | 1040.7 | 2566.1 | 5148.3 | 8243.7 | 9578.4 | 10305.5 |
| 27.5° | 361.7 | 383.1 | 418.7 | 481.2 | 559.5 | 794.7 | 2101.0 | 5308.7 | 9163.2 | 10669.0 | 11264.2 |
| 30° | 317.2 | 338.6 | 374.2 | 424.2 | 495.4 | 643.3 | 1600.3 | 5403.1 | 10056.0 | 11486.9 | 11944.9 |
| 32.5° | 279.8 | 297.6 | 331.4 | 376.0 | 434.8 | 545.3 | 1261.6 | 5305.1 | 10738.5 | 12230.1 | 12536.5 |
| 35° | 242.3 | 263.7 | 292.2 | 333.2 | 384.9 | 465.1 | 1049.6 | 4966.5 | 11324.8 | 12994.5 | 13105.0 |
| 37.5° | 203.2 | 228.1 | 258.4 | 295.8 | 336.8 | 427.7 | 842.9 | 4592.3 | 11952.0 | 13947.9 | 13766.2 |
| 40° | 171.1 | 194.3 | 222.8 | 263.7 | 301.1 | 392.0 | 648.6 | 4193.1 | 12629.2 | 14842.5 | 14487.8 |
| 42.5° | 139.0 | 164.0 | 197.8 | 235.2 | 297.6 | 342.2 | 502.5 | 3779.7 | 13236.9 | 15621.2 | 15140.1 |
| 45° | 110.5 | 131.9 | 167.5 | 215.6 | 295.8 | 294.0 | 388.4 | 3371.6 | 13694.9 | 16177.2 | 15626.6 |
| 47.5° | 87.3 | 105.2 | 140.8 | 210.3 | 272.6 | 249.5 | 311.9 | 3118.5 | 14176.1 | 16678.0 | 15999.0 |
| 50° | 69.5 | 87.3 | 121.2 | 219.2 | 238.8 | 213.8 | 262.0 | 3159.6 | 14641.2 | 16932.8 | 16152.3 |
| 52.5° | 58.8 | 76.7 | 105.2 | 172.9 | 183.5 | 187.1 | 229.9 | 3348.4 | 15241.6 | 17205.5 | 16457.0 |
| 55° | 51.7 | 67.7 | 89.1 | 121.2 | 142.6 | 167.5 | 210.3 | 3485.7 | 16045.4 | 17790.0 | 17128.8 |
| 57.5° | 41.0 | 58.8 | 80.2 | 103.4 | 117.6 | 146.1 | 194.3 | 3496.3 | 16772.4 | 18540.2 | 18021.6 |
| 59° | 37.4 | 53.5 | 74.9 | 98.0 | 105.2 | 131.9 | 183.5 | 3405.4 | 16799.2 | 18652.5 | 18431.5 |
| 60° | 33.8 | 51.7 | 71.3 | 90.9 | 99.8 | 124.7 | 174.6 | 3300.3 | 16556.8 | 18474.3 | 18600.8 |
| 62.5° | 28.5 | 44.6 | 62.4 | 73.1 | 85.5 | 103.4 | 151.5 | 2918.9 | 15382.4 | 17667.0 | 18287.1 |
| 65° | 25.0 | 39.2 | 53.5 | 60.6 | 71.3 | 89.1 | 133.7 | 2336.2 | 14085.2 | 16572.8 | 17389.0 |
| 67.5° | 23.2 | 35.6 | 46.4 | 51.7 | 62.4 | 82.0 | 119.4 | 1650.2 | 12404.7 | 15184.6 | 16040.0 |
| 70° | 21.4 | 33.8 | 41.0 | 48.1 | 55.3 | 69.5 | 101.6 | 962.3 | 9555.3 | 12750.4 | 13653.9 |
| 72.5° | 21.4 | 32.1 | 35.6 | 41.0 | 48.1 | 62.4 | 94.4 | 520.4 | 6532.9 | 9726.3 | 10893.6 |
| 75° | 21.4 | 30.3 | 32.1 | 35.6 | 42.8 | 57.0 | 83.8 | 272.6 | 4223.4 | 6757.4 | 8339.9 |
| 77.5° | 21.4 | 28.5 | 32.1 | 33.8 | 41.0 | 49.9 | 73.1 | 171.1 | 2813.8 | 4733.1 | 5636.6 |
| 80° | 23.2 | 28.5 | 30.3 | 33.8 | 39.2 | 46.4 | 60.6 | 114.1 | 1653.7 | 2847.7 | 3430.4 |
| 82.5° | 25.0 | 28.5 | 32.1 | 35.6 | 41.0 | 44.6 | 53.5 | 71.3 | 762.7 | 1883.6 | 2131.3 |
| 85° | 26.7 | 30.3 | 33.8 | 37.4 | 42.8 | 44.6 | 49.9 | 51.7 | 124.7 | 850.0 | 1149.4 |
| 87.5° | 28.5 | 32.1 | 35.6 | 39.2 | 46.4 | 46.4 | 46.4 | 46.4 | 42.8 | 90.9 | 231.7 |
| 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° | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 | 7748.3 |
| 2.5° | 8742.6 | 8944.0 | 9084.8 | 9120.4 | 9018.8 | 8972.5 | 8844.2 | 8644.6 | 8523.4 | 8518.1 |
| 5° | 9213.1 | 9685.3 | 10013.2 | 10068.4 | 9872.5 | 9540.9 | 9147.2 | 8639.2 | 8341.7 | 8252.6 |
| 7.5° | 9132.9 | 9959.8 | 10487.3 | 10563.8 | 10234.2 | 9601.5 | 8838.8 | 8020.9 | 7696.6 | 7559.4 |
| 10° | 8803.2 | 9811.9 | 10565.6 | 10686.9 | 10246.7 | 9355.7 | 8386.2 | 7473.8 | 7071.1 | 6966.0 |
| 12.5° | 8521.6 | 9540.9 | 10211.0 | 10378.5 | 10045.3 | 9156.1 | 8115.3 | 7122.8 | 6691.5 | 6593.5 |
| 15° | 8398.7 | 9220.2 | 9630.0 | 9715.6 | 9660.3 | 9031.3 | 8086.8 | 7069.3 | 6575.7 | 6468.8 |
| 17.5° | 8521.6 | 8947.6 | 8999.3 | 9086.6 | 9209.5 | 9018.8 | 8361.3 | 7359.8 | 6827.0 | 6695.0 |
| 20° | 8844.2 | 8710.6 | 8496.7 | 8534.2 | 8815.7 | 9070.5 | 8849.5 | 8003.1 | 7354.4 | 7213.6 |
| 22.5° | 9393.1 | 8651.8 | 8167.0 | 8135.0 | 8491.3 | 9243.4 | 9565.9 | 8874.5 | 8122.5 | 7983.5 |
| 25° | 10066.6 | 8799.7 | 8045.9 | 7976.3 | 8364.9 | 9496.5 | 10344.7 | 9941.9 | 9120.4 | 8908.3 |
| 27.5° | 10800.9 | 9106.1 | 8045.9 | 7978.1 | 8354.1 | 9720.9 | 11011.2 | 10886.4 | 10154.0 | 9922.3 |
| 30° | 11203.6 | 9359.2 | 8161.7 | 8085.0 | 8486.0 | 9851.1 | 11367.5 | 11725.7 | 10930.9 | 10644.0 |
| 32.5° | 11563.6 | 9710.3 | 8388.0 | 8243.7 | 8762.2 | 10043.5 | 11686.5 | 12438.6 | 11549.3 | 11356.9 |
| 35° | 11895.0 | 10086.3 | 8699.8 | 8532.4 | 9125.8 | 10307.3 | 12039.4 | 13187.0 | 12410.0 | 12119.6 |
| 37.5° | 12260.4 | 10522.9 | 9186.3 | 9043.8 | 9733.4 | 10820.4 | 12458.2 | 14170.7 | 13256.5 | 12891.2 |
| 40° | 12657.7 | 11028.9 | 9986.5 | 9925.9 | 10699.3 | 11401.4 | 12987.4 | 15220.3 | 14222.3 | 13807.1 |
| 42.5° | 13062.2 | 11611.7 | 10966.6 | 11066.4 | 11793.5 | 12215.8 | 13530.9 | 16027.5 | 15013.6 | 14555.6 |
| 45° | 13429.4 | 12356.6 | 12240.7 | 12734.4 | 13069.4 | 13010.6 | 13933.6 | 16596.0 | 15703.2 | 15264.8 |
| 47.5° | 13892.7 | 13441.8 | 13782.2 | 14543.1 | 14552.1 | 13874.8 | 14238.4 | 17061.1 | 16296.7 | 15858.3 |
| 50° | 14411.3 | 14723.1 | 15772.8 | 16547.9 | 16339.4 | 14724.9 | 14594.8 | 17611.8 | 16909.7 | 16558.6 |
| 52.5° | 15011.8 | 16157.7 | 17611.8 | 18472.5 | 17986.0 | 15651.5 | 15188.2 | 18206.9 | 17882.6 | 17545.9 |
| 55° | 15710.3 | 17136.0 | 19445.5 | 20131.6 | 19641.5 | 16802.7 | 16089.9 | 19014.2 | 18982.1 | 18752.3 |
| 57.5° | 16499.8 | 18169.5 | 20507.6 | 21436.0 | 20999.4 | 18153.5 | 17349.8 | 19775.1 | 19654.0 | 19525.7 |
| 59° | 17123.5 | 18700.6 | 20976.3 | 21938.6 | 21674.8 | 19099.8 | 18196.3 | 20249.2 | 19809.0 | 19616.6 |
| 60° | 17501.3 | 19060.6 | 21149.1 | 22006.2 | 21945.7 | 19662.9 | 18732.6 | 20480.9 | 19807.2 | 19539.9 |
| 62.5° | 18622.2 | 19689.6 | 21083.1 | 21705.1 | 21942.1 | 20742.8 | 20306.2 | 20735.6 | 19440.2 | 19048.1 |
| 65° | 19021.3 | 19481.1 | 19990.8 | 19914.1 | 20117.3 | 20687.6 | 21311.2 | 20455.9 | 18656.1 | 18098.3 |
| 67.5° | 18244.4 | 17194.8 | 17374.8 | 16863.3 | 16763.6 | 18392.3 | 20903.2 | 19087.3 | 17121.7 | 16439.2 |
| 70° | 15378.9 | 13172.7 | 13081.9 | 13317.1 | 12672.0 | 14890.6 | 18770.1 | 16451.7 | 14589.5 | 13816.0 |
| 72.5° | 12105.3 | 9309.3 | 8543.0 | 9409.1 | 9389.5 | 11360.4 | 15592.7 | 11674.1 | 9856.4 | 9790.5 |
| 75° | 9519.6 | 6481.2 | 5688.3 | 5829.0 | 6099.9 | 8224.1 | 12418.9 | 7413.2 | 6069.6 | 5531.4 |
| 77.5° | 6390.4 | 4592.3 | 4284.0 | 4111.1 | 4403.4 | 5280.2 | 7856.9 | 4020.2 | 3403.7 | 3223.7 |
| 80° | 3683.5 | 3336.0 | 3788.6 | 3439.3 | 3596.2 | 3327.0 | 3908.0 | 1844.4 | 1530.8 | 1657.3 |
| 82.5° | 2396.8 | 1899.6 | 2024.4 | 1504.1 | 2056.5 | 2074.2 | 1254.5 | 545.3 | 461.6 | 490.1 |
| 85° | 1498.7 | 891.0 | 500.7 | 356.4 | 709.2 | 1304.5 | 392.0 | 33.8 | 39.2 | 33.8 |
| 87.5° | 388.4 | 147.9 | 62.4 | 92.6 | 114.1 | 101.6 | 90.9 | 5.3 | 1.8 | 3.6 |
| 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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