

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: P451543

Luminaire Tested: **GLAN-SA2B-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7280 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

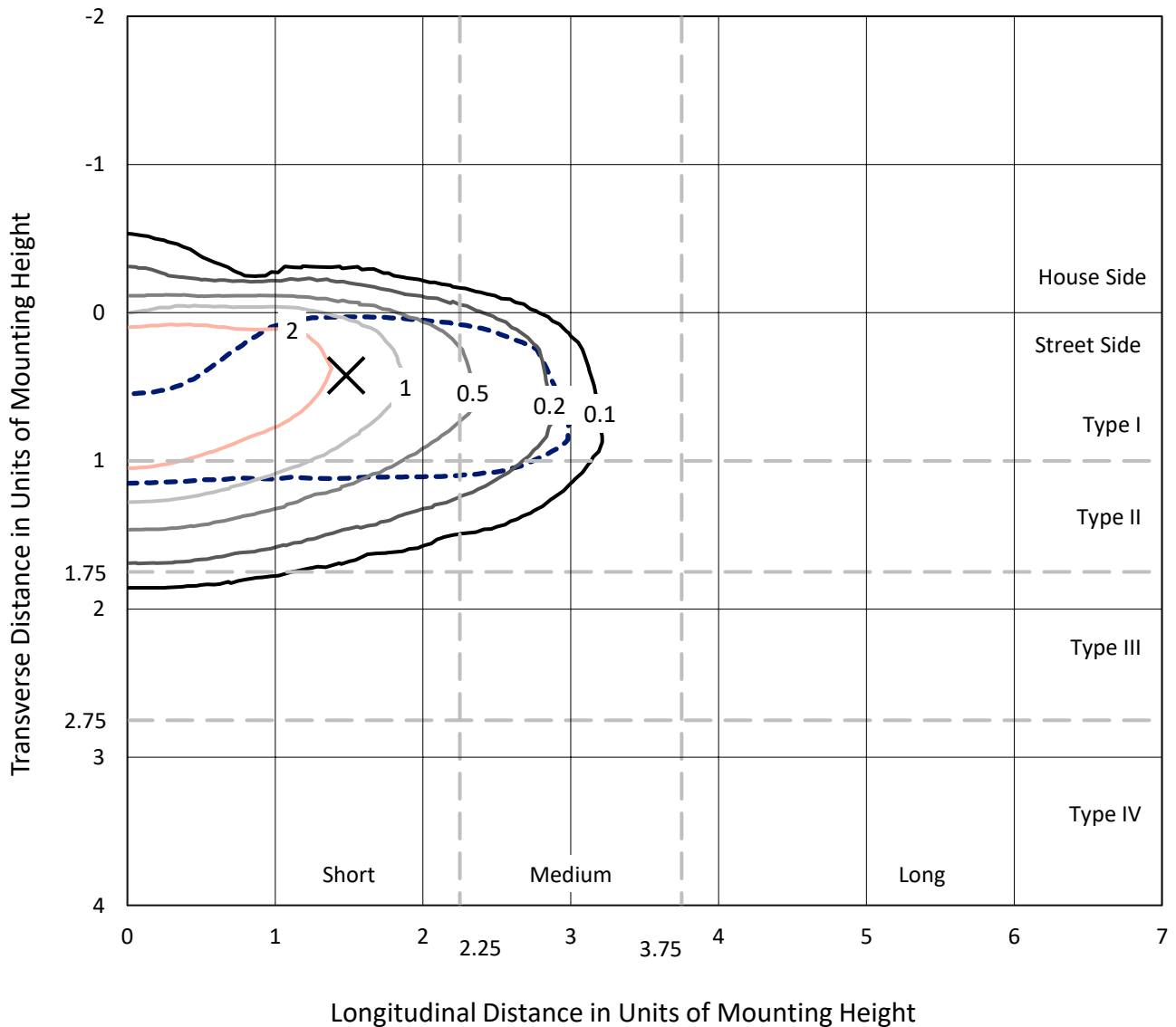
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

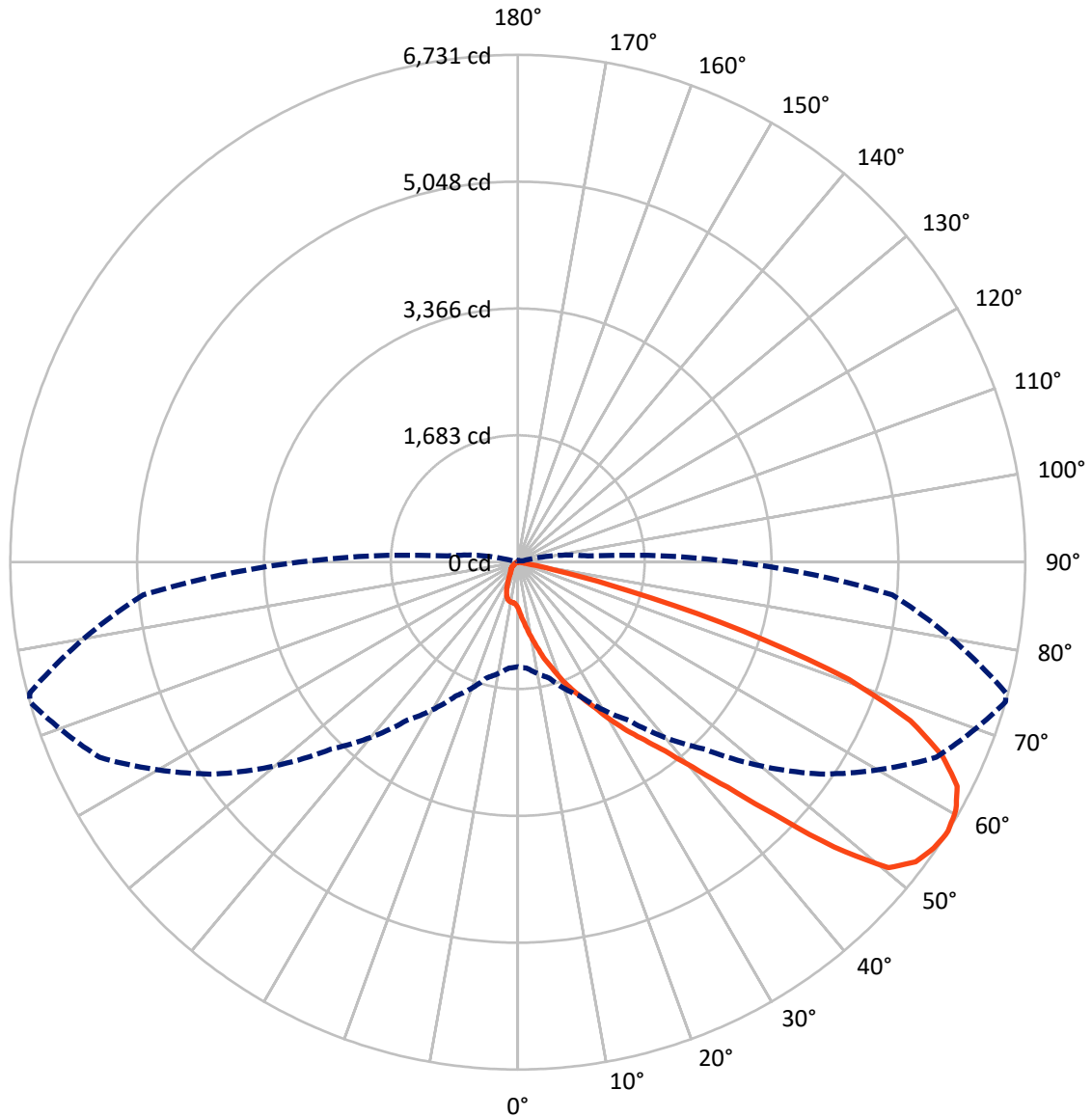
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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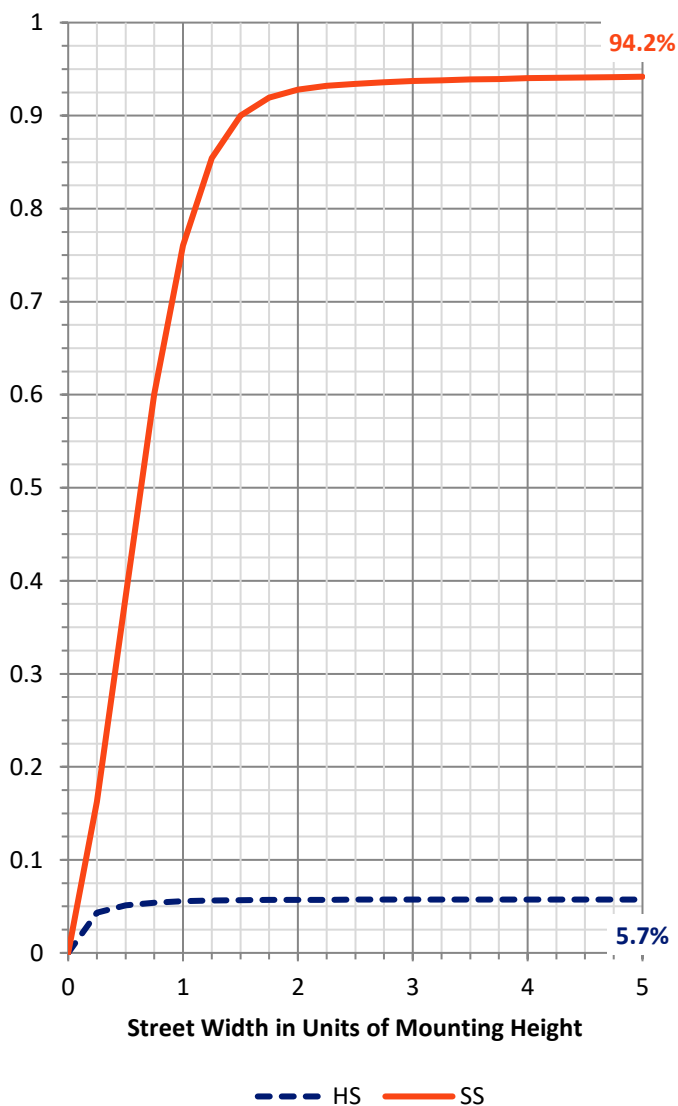
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 419.9 | 0.0 | 419.9 |
| | % Fixture | 5.8 | 0.0 | 5.8 |
| Street Side | Lumens | 6860.1 | 0.0 | 6860.1 |
| | % Fixture | 94.2 | 0.0 | 94.2 |
| Total | Lumens | 7280.0 | 0.0 | 7280.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.6 | 1.0 |
| 10°-20° | 290.1 | 4.0 |
| 20°-30° | 620.7 | 8.5 |
| 30°-40° | 1140.8 | 15.7 |
| 40°-50° | 1748.8 | 24.0 |
| 50°-60° | 1850.0 | 25.4 |
| 60°-70° | 1208.1 | 16.6 |
| 70°-80° | 330.1 | 4.5 |
| 80°-90° | 17.8 | 0.2 |
| 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° | 7280.0 | 100.0 |
| 0°-180° | 7280.0 | 100.0 |

Coefficient of Utilization



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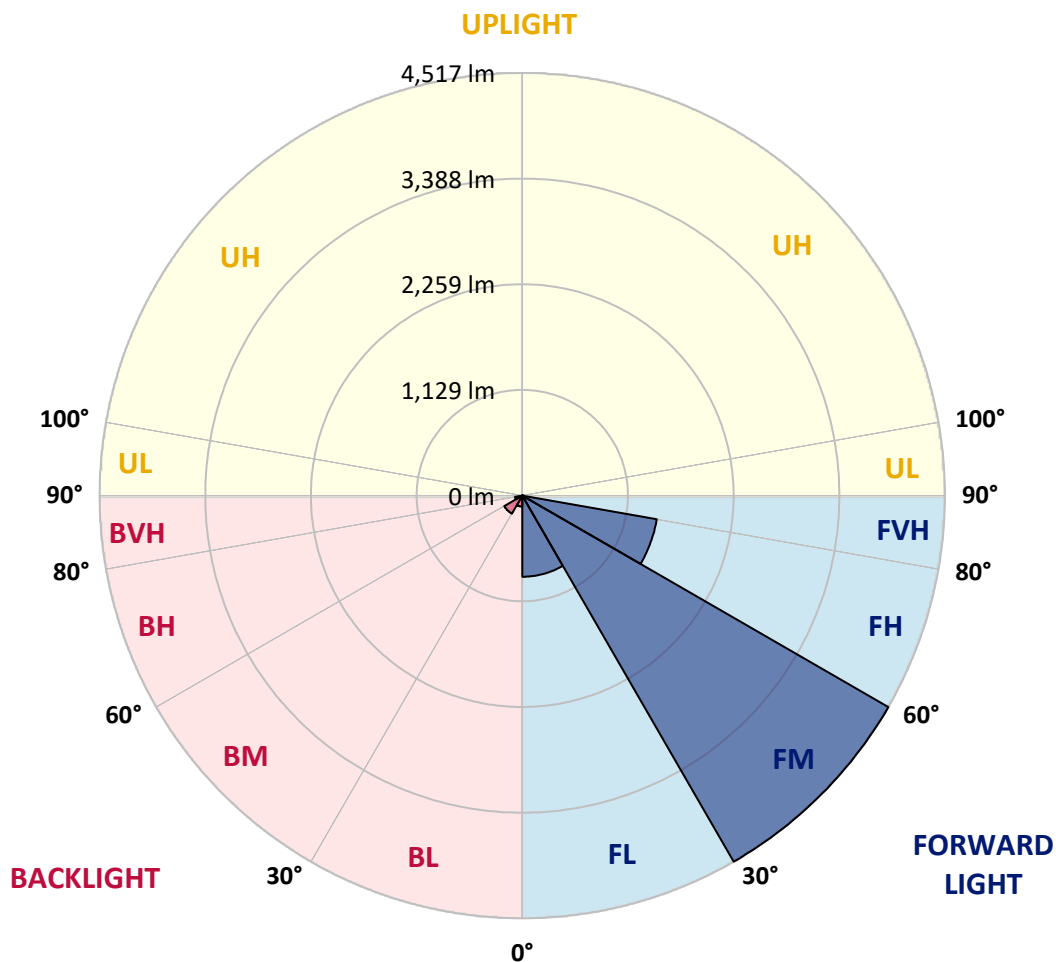
CATALOG NUMBER: GLAN-SA2B-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 867.0 | 11.9 | | | |
| FM | (30°-60°) | 4517.4 | 62.1 | | | |
| FH | (60°-80°) | 1459.4 | 20.0 | | | G1/1800 |
| FVH | (80°-90°) | 16.3 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 117.3 | 1.6 | B1/500 | | |
| BM | (30°-60°) | 222.3 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 78.8 | 1.1 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 1.5 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 |
| 2.5° | 892.2 | 884.1 | 868.0 | 862.5 | 838.9 | 802.2 | 770.0 | 726.8 | 692.6 | 689.1 | 647.9 |
| 5° | 1194.8 | 1176.7 | 1169.1 | 1132.9 | 1076.1 | 1022.9 | 931.4 | 862.0 | 782.1 | 776.1 | 693.1 |
| 7.5° | 1486.3 | 1461.1 | 1453.6 | 1419.4 | 1353.1 | 1269.1 | 1150.5 | 1024.4 | 897.7 | 886.1 | 753.9 |
| 10° | 1697.4 | 1700.9 | 1687.3 | 1664.7 | 1610.9 | 1525.5 | 1379.2 | 1206.8 | 1026.4 | 1011.8 | 822.3 |
| 12.5° | 1848.7 | 1848.2 | 1850.7 | 1850.2 | 1821.5 | 1756.7 | 1602.9 | 1404.3 | 1168.1 | 1139.5 | 900.7 |
| 15° | 1947.2 | 1948.7 | 1956.2 | 1982.4 | 1985.4 | 1945.2 | 1817.0 | 1593.3 | 1332.5 | 1296.8 | 985.7 |
| 17.5° | 2046.7 | 2057.3 | 2069.3 | 2094.0 | 2116.1 | 2100.0 | 2009.5 | 1790.4 | 1481.3 | 1454.6 | 1076.6 |
| 20° | 2211.1 | 2225.6 | 2218.6 | 2233.7 | 2245.2 | 2246.8 | 2176.9 | 1972.3 | 1661.7 | 1617.0 | 1180.7 |
| 22.5° | 2473.9 | 2473.4 | 2455.3 | 2428.2 | 2405.6 | 2404.6 | 2341.3 | 2159.3 | 1825.6 | 1782.3 | 1285.2 |
| 25° | 2806.2 | 2807.7 | 2772.5 | 2695.1 | 2638.8 | 2569.9 | 2497.1 | 2323.2 | 2001.0 | 1947.7 | 1395.3 |
| 27.5° | 3187.2 | 3177.6 | 3124.3 | 3017.8 | 2906.2 | 2788.6 | 2683.5 | 2513.7 | 2186.9 | 2142.7 | 1521.5 |
| 30° | 3529.5 | 3526.0 | 3463.6 | 3333.4 | 3186.7 | 3068.6 | 2916.3 | 2752.4 | 2427.7 | 2373.4 | 1662.7 |
| 32.5° | 3848.1 | 3853.2 | 3766.7 | 3632.0 | 3490.3 | 3354.1 | 3193.2 | 2980.6 | 2663.9 | 2587.0 | 1816.5 |
| 35° | 4096.9 | 4102.0 | 4012.5 | 3900.4 | 3754.6 | 3641.6 | 3488.3 | 3223.9 | 2897.2 | 2832.3 | 1993.4 |
| 37.5° | 4229.6 | 4236.2 | 4184.4 | 4100.0 | 4009.0 | 3952.2 | 3809.4 | 3537.0 | 3180.6 | 3141.4 | 2202.5 |
| 40° | 4254.8 | 4262.3 | 4239.7 | 4217.1 | 4212.0 | 4252.8 | 4211.0 | 3905.9 | 3573.7 | 3512.4 | 2514.2 |
| 42.5° | 4179.4 | 4189.4 | 4199.5 | 4249.7 | 4352.3 | 4501.6 | 4646.8 | 4406.6 | 4079.8 | 3997.4 | 2895.2 |
| 45° | 3981.3 | 3980.3 | 4020.0 | 4150.2 | 4379.9 | 4698.6 | 5102.2 | 5033.3 | 4769.5 | 4671.4 | 3433.5 |
| 47.5° | 3642.6 | 3637.5 | 3723.5 | 3909.0 | 4266.8 | 4734.8 | 5473.6 | 5794.3 | 5649.6 | 5559.1 | 4012.0 |
| 50° | 3126.4 | 3151.0 | 3286.2 | 3545.1 | 3985.9 | 4625.2 | 5588.2 | 6293.4 | 6371.8 | 6275.8 | 4479.4 |
| 52.5° | 2521.7 | 2520.7 | 2732.8 | 3084.1 | 3569.7 | 4383.9 | 5508.3 | 6383.9 | 6606.6 | 6533.2 | 4709.6 |
| 55° | 1866.3 | 1879.3 | 2100.0 | 2454.3 | 3029.4 | 3943.6 | 5247.5 | 6290.9 | 6696.0 | 6644.3 | 4861.4 |
| 57° | 1388.3 | 1411.4 | 1588.3 | 1963.3 | 2558.9 | 3507.9 | 4900.1 | 6124.5 | 6731.2 | 6703.1 | 4987.6 |
| 57.5° | 1295.8 | 1296.8 | 1469.2 | 1810.0 | 2421.2 | 3340.5 | 4800.6 | 6055.2 | 6730.2 | 6714.6 | 5008.2 |
| 60° | 797.7 | 822.8 | 941.9 | 1223.4 | 1772.3 | 2607.1 | 4133.6 | 5656.6 | 6677.9 | 6700.6 | 5096.2 |
| 62.5° | 477.5 | 488.1 | 565.5 | 737.4 | 1142.5 | 1903.0 | 3382.7 | 5146.4 | 6541.7 | 6610.6 | 5090.1 |
| 65° | 307.1 | 309.6 | 344.8 | 446.3 | 714.2 | 1286.2 | 2606.6 | 4472.4 | 6189.4 | 6316.1 | 4891.1 |
| 67.5° | 237.2 | 241.3 | 255.3 | 293.0 | 414.2 | 801.2 | 1843.6 | 3753.1 | 5619.4 | 5782.8 | 4408.6 |
| 70° | 210.6 | 212.6 | 217.6 | 229.7 | 273.9 | 452.4 | 1147.0 | 2931.8 | 4659.9 | 4706.1 | 3450.1 |
| 72.5° | 171.9 | 177.4 | 193.0 | 197.0 | 217.1 | 282.5 | 638.3 | 1967.8 | 3130.9 | 3142.4 | 1930.1 |
| 75° | 133.2 | 134.2 | 157.3 | 168.9 | 183.0 | 194.5 | 285.0 | 992.2 | 1503.9 | 1423.4 | 743.9 |
| 77.5° | 99.5 | 104.0 | 114.6 | 129.2 | 149.3 | 139.2 | 127.7 | 374.0 | 466.9 | 458.4 | 216.1 |
| 80° | 63.8 | 66.3 | 79.9 | 97.0 | 116.1 | 91.0 | 71.9 | 109.6 | 102.5 | 105.6 | 51.8 |
| 82.5° | 32.2 | 32.7 | 51.3 | 78.9 | 73.9 | 45.7 | 45.2 | 44.7 | 38.2 | 37.7 | 24.1 |
| 85° | 3.5 | 7.5 | 33.2 | 45.2 | 33.2 | 15.1 | 21.1 | 20.6 | 20.1 | 20.6 | 14.1 |
| 87.5° | 0.5 | 0.5 | 5.5 | 6.5 | 4.5 | 5.0 | 6.0 | 6.5 | 8.0 | 7.5 | 6.0 |
| 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-SA2B-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 | 609.7 |
| 2.5° | 627.8 | 607.7 | 570.5 | 534.8 | 508.2 | 491.1 | 469.0 | 460.9 | 449.4 | 447.8 | 442.3 |
| 5° | 654.9 | 616.7 | 551.9 | 500.6 | 459.4 | 428.2 | 401.1 | 378.5 | 360.4 | 356.4 | 358.4 |
| 7.5° | 693.6 | 636.8 | 546.4 | 476.5 | 419.2 | 365.9 | 322.7 | 296.0 | 276.9 | 269.9 | 270.9 |
| 10° | 737.4 | 663.5 | 545.4 | 450.9 | 363.4 | 298.1 | 250.8 | 227.2 | 216.1 | 212.1 | 207.6 |
| 12.5° | 789.1 | 694.1 | 542.8 | 411.2 | 302.1 | 237.7 | 204.1 | 190.0 | 179.4 | 176.4 | 176.4 |
| 15° | 847.4 | 726.8 | 530.8 | 361.9 | 245.3 | 196.5 | 173.9 | 162.9 | 159.3 | 156.3 | 156.3 |
| 17.5° | 908.3 | 759.0 | 505.6 | 301.1 | 203.6 | 168.4 | 154.3 | 147.8 | 142.7 | 139.2 | 139.2 |
| 20° | 977.6 | 790.6 | 465.4 | 247.3 | 171.9 | 150.3 | 139.2 | 131.7 | 127.7 | 124.7 | 123.6 |
| 22.5° | 1043.5 | 816.3 | 414.2 | 203.1 | 149.8 | 135.2 | 125.2 | 117.1 | 113.1 | 111.6 | 111.6 |
| 25° | 1111.8 | 831.9 | 352.3 | 167.9 | 136.7 | 122.6 | 111.6 | 105.0 | 101.5 | 100.5 | 100.0 |
| 27.5° | 1178.2 | 840.9 | 298.1 | 146.8 | 124.7 | 111.1 | 100.5 | 95.5 | 92.0 | 91.0 | 91.5 |
| 30° | 1258.6 | 842.4 | 245.3 | 131.7 | 114.1 | 100.0 | 90.5 | 85.9 | 83.9 | 82.9 | 82.4 |
| 32.5° | 1340.0 | 840.4 | 206.1 | 122.6 | 104.0 | 90.5 | 82.4 | 78.9 | 77.4 | 75.9 | 75.9 |
| 35° | 1431.5 | 829.8 | 175.4 | 113.6 | 94.5 | 82.4 | 75.4 | 72.4 | 70.4 | 68.9 | 68.4 |
| 37.5° | 1545.1 | 824.3 | 157.8 | 103.5 | 85.9 | 74.9 | 68.4 | 65.3 | 63.8 | 61.8 | 61.3 |
| 40° | 1724.0 | 848.9 | 152.3 | 94.5 | 77.4 | 67.9 | 61.8 | 58.3 | 56.3 | 54.3 | 53.8 |
| 42.5° | 1947.2 | 892.2 | 143.2 | 85.4 | 69.9 | 61.3 | 55.3 | 51.3 | 47.7 | 45.2 | 44.2 |
| 45° | 2236.2 | 949.0 | 129.2 | 75.9 | 63.3 | 54.3 | 48.8 | 43.7 | 39.2 | 37.2 | 36.7 |
| 47.5° | 2539.3 | 1003.8 | 116.6 | 68.4 | 56.3 | 48.3 | 42.2 | 36.7 | 32.7 | 31.2 | 30.7 |
| 50° | 2725.3 | 1014.8 | 108.6 | 59.8 | 49.3 | 41.7 | 35.7 | 30.7 | 28.1 | 26.6 | 26.6 |
| 52.5° | 2810.2 | 997.2 | 97.5 | 52.3 | 42.7 | 36.7 | 30.7 | 26.6 | 25.1 | 24.1 | 23.6 |
| 55° | 2869.5 | 970.1 | 82.9 | 45.2 | 36.7 | 31.2 | 27.1 | 24.1 | 22.1 | 21.1 | 20.6 |
| 57° | 2904.2 | 933.4 | 71.9 | 39.7 | 31.7 | 27.1 | 24.1 | 21.6 | 19.6 | 17.6 | 17.6 |
| 57.5° | 2905.7 | 919.3 | 68.9 | 39.2 | 30.2 | 26.1 | 23.6 | 21.1 | 18.6 | 16.6 | 16.1 |
| 60° | 2861.0 | 822.8 | 55.3 | 33.2 | 24.1 | 22.1 | 19.6 | 16.6 | 13.1 | 11.1 | 10.6 |
| 62.5° | 2717.2 | 700.2 | 45.7 | 28.1 | 19.6 | 17.1 | 14.1 | 12.6 | 9.0 | 6.5 | 6.5 |
| 65° | 2499.6 | 568.0 | 39.2 | 22.6 | 16.1 | 12.6 | 9.5 | 9.0 | 5.5 | 3.0 | 2.5 |
| 67.5° | 2184.9 | 442.3 | 33.2 | 18.6 | 13.6 | 9.0 | 6.5 | 6.0 | 3.0 | 1.0 | 0.0 |
| 70° | 1664.7 | 301.6 | 27.6 | 15.1 | 10.1 | 6.5 | 4.5 | 3.5 | 2.0 | 0.5 | 0.0 |
| 72.5° | 959.5 | 165.9 | 23.1 | 11.6 | 7.5 | 5.0 | 3.5 | 2.0 | 2.0 | 0.0 | 0.0 |
| 75° | 342.8 | 71.4 | 17.6 | 8.5 | 6.0 | 4.0 | 2.5 | 1.0 | 1.5 | 0.5 | 0.0 |
| 77.5° | 109.1 | 38.2 | 11.6 | 6.5 | 5.0 | 3.0 | 2.0 | 1.0 | 1.0 | 0.5 | 0.0 |
| 80° | 32.2 | 20.1 | 7.0 | 5.5 | 3.5 | 2.5 | 1.5 | 0.5 | 1.0 | 0.5 | 0.0 |
| 82.5° | 17.6 | 10.1 | 5.5 | 4.0 | 3.5 | 2.0 | 1.5 | 0.5 | 0.5 | 0.5 | 0.0 |
| 85° | 9.0 | 6.0 | 4.5 | 4.0 | 3.5 | 2.0 | 1.5 | 0.5 | 0.0 | 0.5 | 0.5 |
| 87.5° | 5.0 | 4.5 | 4.5 | 4.0 | 3.5 | 2.5 | 1.5 | 0.5 | 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)