

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: P454312

Luminaire Tested: **GLAN-SA5B-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22866 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

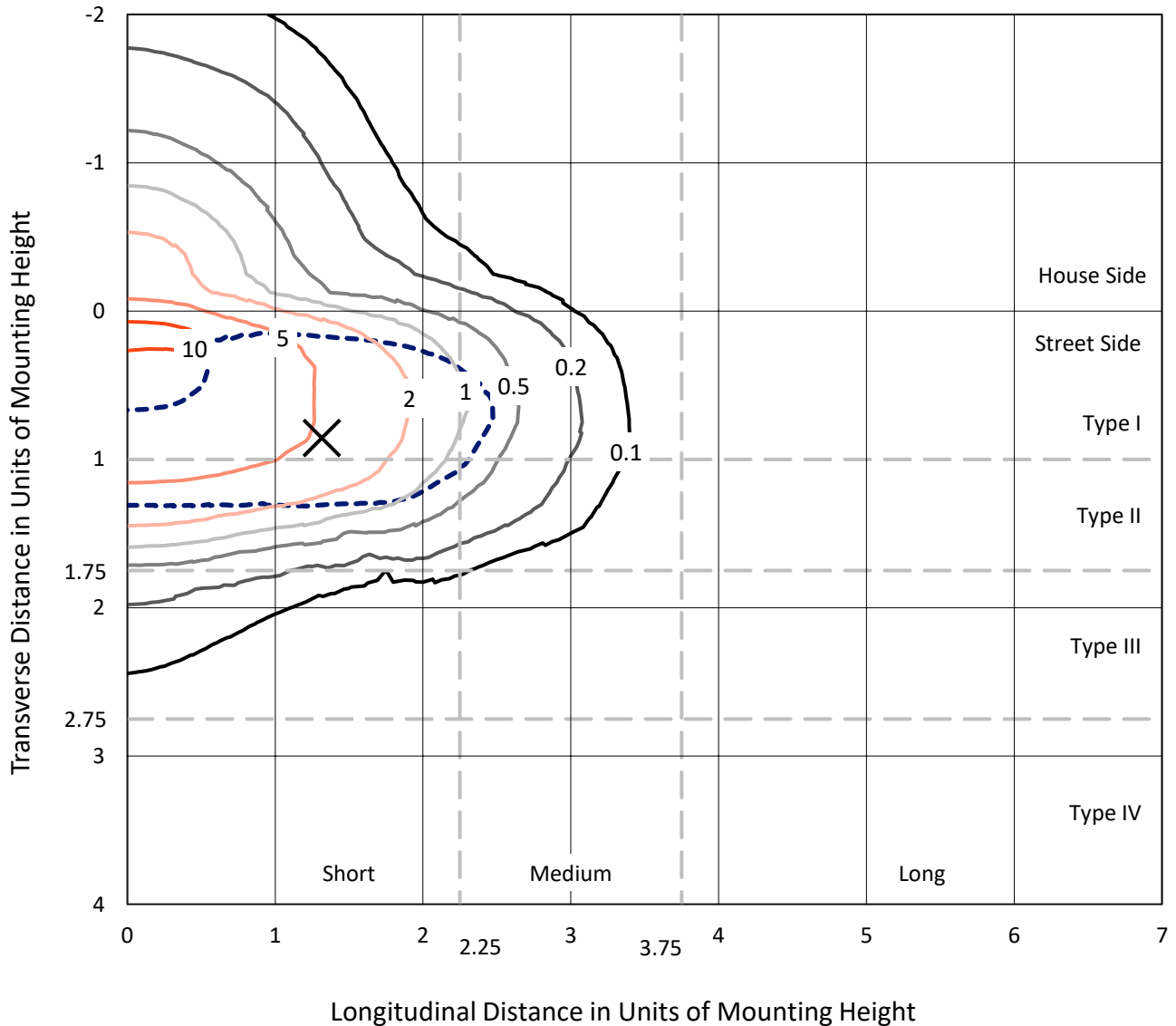
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

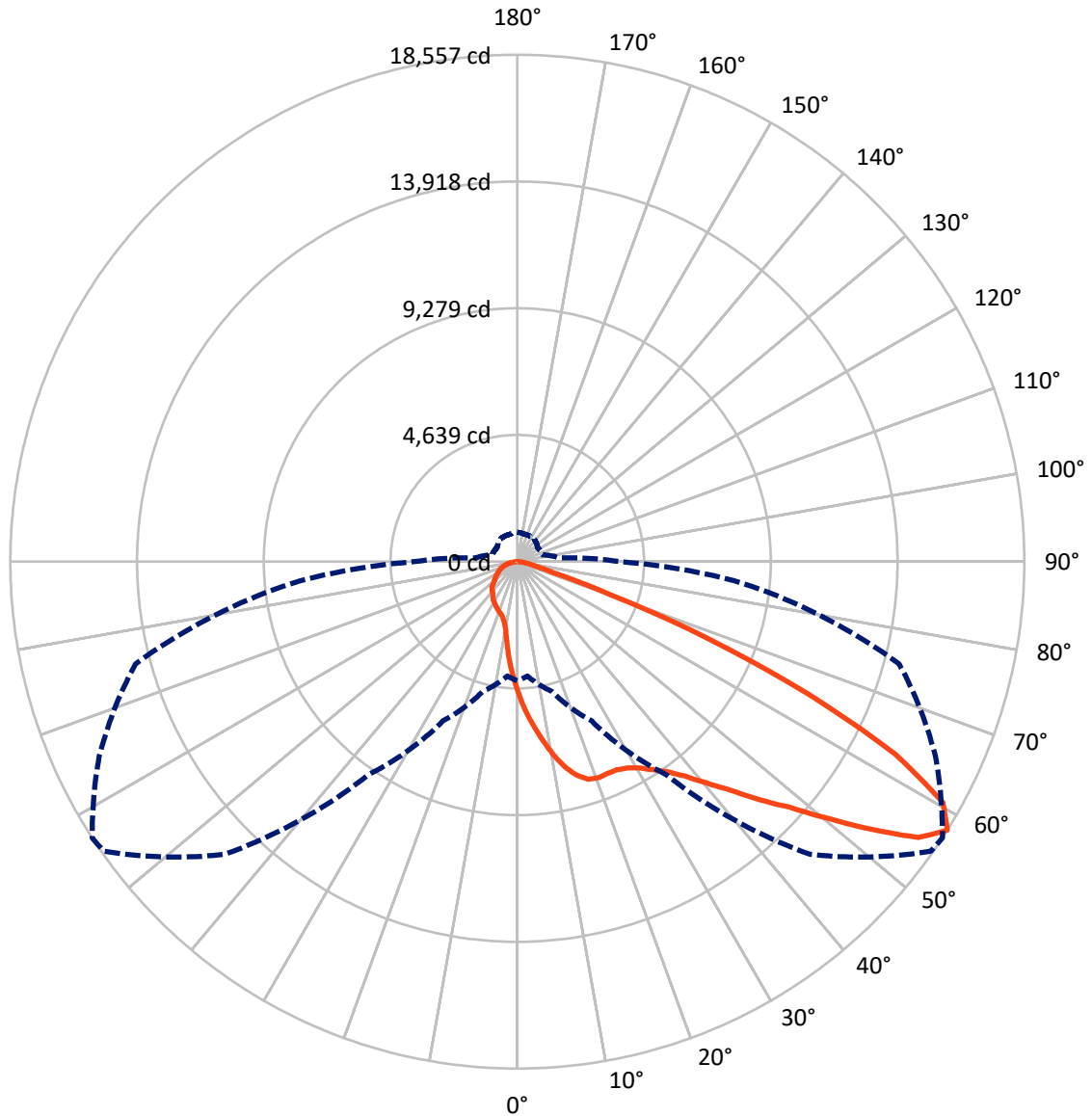
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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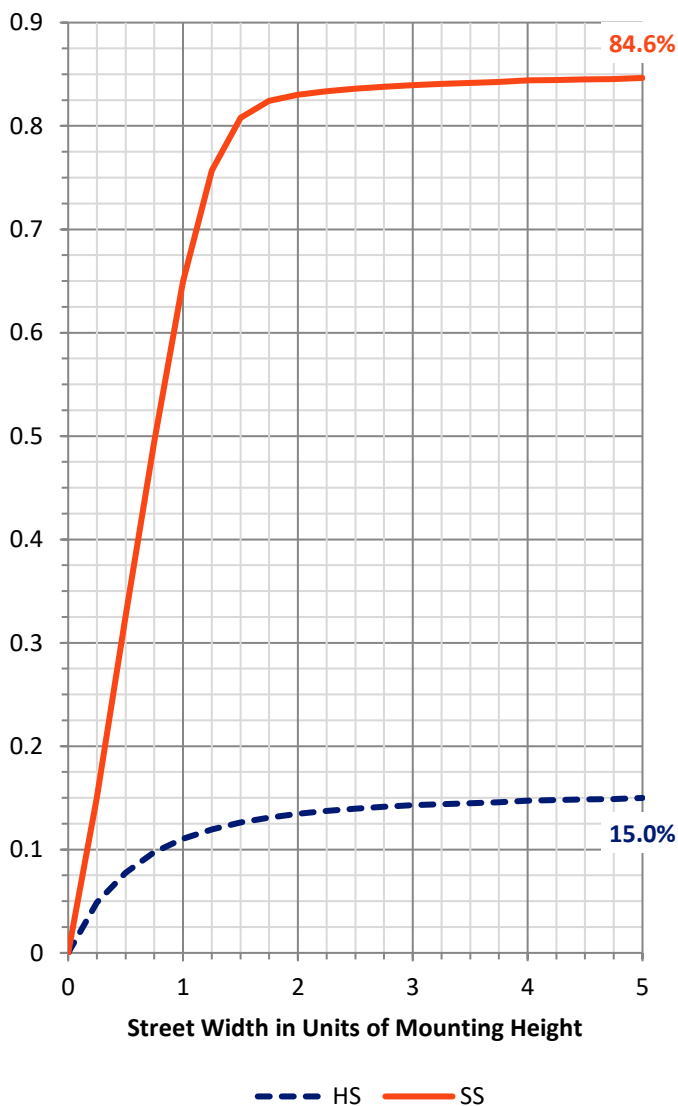
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3477.3 | 0.0 | 3477.3 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 19388.7 | 0.0 | 19388.7 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 22866.0 | 0.0 | 22866.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 461.7 | 2.0 |
| 10°-20° | 1360.7 | 6.0 |
| 20°-30° | 2259.4 | 9.9 |
| 30°-40° | 3403.3 | 14.9 |
| 40°-50° | 5109.7 | 22.3 |
| 50°-60° | 5727.4 | 25.0 |
| 60°-70° | 3351.9 | 14.7 |
| 70°-80° | 991.5 | 4.3 |
| 80°-90° | 200.4 | 0.9 |
| 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° | 22866.0 | 100.0 |
| 0°-180° | 22866.0 | 100.0 |

Coefficient of Utilization



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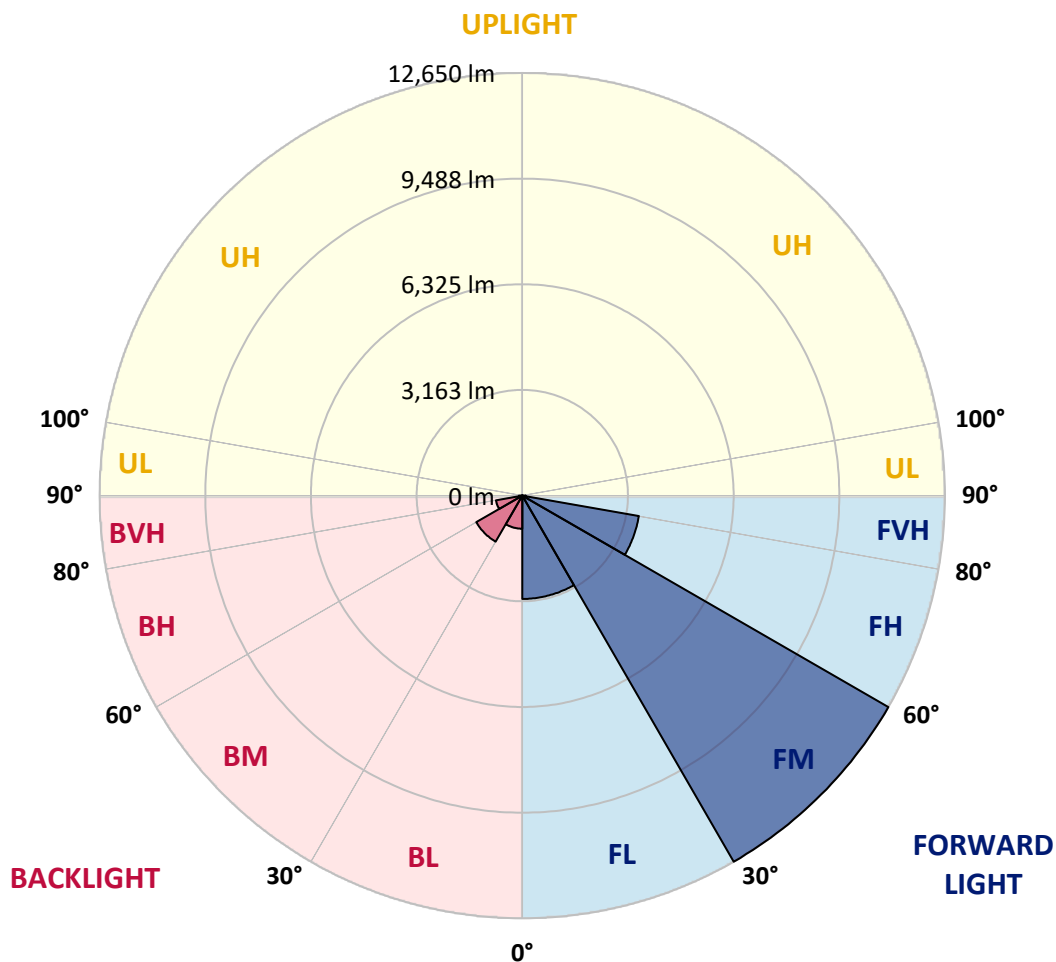
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3091.0 | 13.5 | | | |
| FM | (30°-60°) | 12650.5 | 55.3 | | | |
| FH | (60°-80°) | 3543.3 | 15.5 | | | G2/5000 |
| FVH | (80°-90°) | 104.0 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 990.8 | 4.3 | B2/1000 | | |
| BM | (30°-60°) | 1590.0 | 7.0 | B2/2500 | | |
| BH | (60°-80°) | 800.1 | 3.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 96.4 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4803.9 | 4803.9 | 4803.9 | 4803.9 | 4803.9 | 4803.9 | 4803.9 | 4803.9 | 4803.9 | 4803.9 | 4803.9 |
| 2.5° | 5969.2 | 5904.1 | 5852.8 | 5807.7 | 5748.9 | 5589.9 | 5431.0 | 5428.5 | 5302.0 | 5106.8 | 4906.5 |
| 5° | 6941.7 | 6854.1 | 6865.4 | 6725.2 | 6585.0 | 6354.7 | 6018.0 | 6000.5 | 5731.4 | 5365.9 | 4994.1 |
| 7.5° | 7575.1 | 7576.3 | 7541.3 | 7461.2 | 7309.7 | 7048.1 | 6666.4 | 6580.0 | 6205.7 | 5651.3 | 5094.3 |
| 10° | 7542.5 | 7576.3 | 7635.1 | 7704.0 | 7750.3 | 7621.4 | 7273.4 | 7168.3 | 6681.4 | 5996.7 | 5205.7 |
| 12.5° | 7109.4 | 7162.0 | 7245.9 | 7418.6 | 7697.7 | 7910.5 | 7791.6 | 7706.5 | 7232.1 | 6340.9 | 5328.3 |
| 15° | 6839.1 | 6870.4 | 6916.7 | 7033.1 | 7333.5 | 7842.9 | 8150.8 | 8105.8 | 7751.6 | 6730.2 | 5466.0 |
| 17.5° | 6756.5 | 6787.8 | 6802.8 | 6874.1 | 7088.2 | 7610.1 | 8292.3 | 8372.4 | 8212.2 | 7088.2 | 5604.9 |
| 20° | 6839.1 | 6854.1 | 6854.1 | 6896.7 | 7064.4 | 7473.7 | 8286.0 | 8447.5 | 8590.2 | 7517.5 | 5735.1 |
| 22.5° | 7055.6 | 7061.9 | 7053.1 | 7068.1 | 7193.3 | 7511.2 | 8227.2 | 8427.5 | 8895.6 | 7881.7 | 5836.5 |
| 25° | 7407.3 | 7417.4 | 7359.8 | 7324.7 | 7416.1 | 7676.5 | 8259.7 | 8443.7 | 9134.6 | 8229.7 | 5904.1 |
| 27.5° | 7806.6 | 7819.1 | 7749.0 | 7667.7 | 7710.2 | 7880.5 | 8387.4 | 8552.6 | 9313.6 | 8572.6 | 5946.7 |
| 30° | 8296.0 | 8301.0 | 8183.4 | 8085.7 | 8058.2 | 8184.6 | 8605.2 | 8759.1 | 9536.4 | 8976.9 | 6010.5 |
| 32.5° | 8796.7 | 8834.2 | 8682.8 | 8545.1 | 8498.8 | 8537.6 | 8926.9 | 9075.8 | 9801.8 | 9411.3 | 6113.1 |
| 35° | 9477.6 | 9483.9 | 9302.4 | 9134.6 | 8981.9 | 9032.0 | 9338.7 | 9446.3 | 10168.5 | 9913.2 | 6258.3 |
| 37.5° | 10327.5 | 10385.1 | 10134.7 | 9821.8 | 9634.1 | 9561.5 | 9836.8 | 9954.5 | 10682.9 | 10529.0 | 6477.4 |
| 40° | 11271.2 | 11292.5 | 11078.5 | 10883.2 | 10540.3 | 10330.0 | 10520.2 | 10647.9 | 11317.5 | 11263.7 | 6731.4 |
| 42.5° | 11864.5 | 11910.8 | 11927.1 | 11907.1 | 11649.2 | 11296.3 | 11368.9 | 11428.9 | 12068.5 | 11953.4 | 6991.8 |
| 45° | 12064.8 | 12133.6 | 12366.4 | 12859.6 | 12887.1 | 12539.2 | 12370.2 | 12427.8 | 12887.1 | 12649.3 | 7240.9 |
| 47.5° | 11733.1 | 11850.8 | 12280.1 | 13291.4 | 14048.7 | 14075.0 | 13565.5 | 13439.1 | 13633.1 | 13226.3 | 7421.1 |
| 50° | 10875.7 | 10900.7 | 11557.9 | 13022.3 | 14593.1 | 15543.2 | 15016.2 | 14780.9 | 14341.6 | 13653.1 | 7545.0 |
| 52.5° | 9548.9 | 9577.7 | 10128.5 | 11771.9 | 14257.7 | 16569.5 | 16713.5 | 16292.9 | 15061.3 | 13984.8 | 7626.4 |
| 55° | 7088.2 | 7254.6 | 7860.4 | 9448.8 | 12668.1 | 16473.1 | 18062.8 | 17823.7 | 15931.2 | 14247.7 | 7754.1 |
| 57.5° | 4358.3 | 4205.6 | 4924.0 | 6428.5 | 9527.7 | 15148.9 | 18479.6 | 18557.2 | 16888.7 | 14468.0 | 7968.1 |
| 60° | 2005.2 | 2035.2 | 2331.8 | 3315.7 | 5807.7 | 11850.8 | 17405.6 | 17896.3 | 17418.2 | 14460.5 | 8021.9 |
| 62.5° | 1381.8 | 1354.3 | 1279.2 | 1455.7 | 2648.5 | 7495.0 | 14702.0 | 15533.1 | 16356.7 | 14011.1 | 7807.9 |
| 65° | 1235.4 | 1207.9 | 1062.7 | 1013.8 | 1216.6 | 3266.8 | 10688.0 | 11736.8 | 13772.1 | 12877.1 | 7274.7 |
| 67.5° | 1154.0 | 1116.5 | 966.3 | 871.2 | 868.7 | 1300.5 | 6302.1 | 7565.1 | 10214.8 | 10887.0 | 6303.4 |
| 70° | 1068.9 | 1038.9 | 889.9 | 784.8 | 739.7 | 817.3 | 2769.9 | 3626.1 | 6632.6 | 7845.4 | 4910.3 |
| 72.5° | 983.8 | 948.8 | 814.8 | 702.2 | 643.4 | 612.1 | 1061.4 | 1380.6 | 3747.5 | 4703.8 | 3010.3 |
| 75° | 859.9 | 842.4 | 728.5 | 635.8 | 572.0 | 494.4 | 673.4 | 768.5 | 1792.4 | 2160.4 | 1510.8 |
| 77.5° | 752.2 | 733.5 | 647.1 | 555.7 | 509.4 | 401.8 | 478.1 | 521.9 | 756.0 | 876.2 | 682.2 |
| 80° | 550.7 | 569.5 | 545.7 | 490.7 | 454.4 | 315.4 | 321.7 | 358.0 | 449.3 | 496.9 | 416.8 |
| 82.5° | 349.2 | 384.3 | 420.6 | 378.0 | 344.2 | 249.1 | 222.8 | 236.6 | 306.7 | 325.4 | 185.2 |
| 85° | 146.4 | 148.9 | 244.1 | 230.3 | 196.5 | 147.7 | 133.9 | 141.4 | 164.0 | 171.5 | 86.4 |
| 87.5° | 56.3 | 55.1 | 86.4 | 80.1 | 61.3 | 42.6 | 42.6 | 47.6 | 65.1 | 60.1 | 27.5 |
| 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-SA5B-830-U-AFL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4803.9 | 4803.9 | 4803.9 | 4803.9 | 4803.9 | 4803.9 | 4803.9 | 4803.9 | 4803.9 | 4803.9 | 4803.9 |
| 2.5° | 4820.2 | 4731.3 | 4554.8 | 4335.8 | 4175.5 | 3995.3 | 3836.3 | 3722.4 | 3679.9 | 3659.9 | 3622.3 |
| 5° | 4816.4 | 4641.2 | 4275.7 | 3892.7 | 3584.8 | 3269.3 | 3002.7 | 2830.0 | 2815.0 | 2699.8 | 2688.6 |
| 7.5° | 4817.7 | 4549.8 | 3967.8 | 3404.5 | 2935.2 | 2612.2 | 2391.9 | 2334.4 | 2265.5 | 2248.0 | 2256.7 |
| 10° | 4821.4 | 4433.4 | 3637.3 | 2921.4 | 2467.0 | 2255.5 | 2172.9 | 2150.4 | 2152.9 | 2160.4 | 2161.6 |
| 12.5° | 4826.4 | 4320.7 | 3294.4 | 2554.6 | 2204.2 | 2116.6 | 2107.8 | 2127.8 | 2149.1 | 2165.4 | 2169.1 |
| 15° | 4832.7 | 4191.8 | 2960.2 | 2259.3 | 2072.8 | 2065.2 | 2094.0 | 2127.8 | 2157.9 | 2181.6 | 2185.4 |
| 17.5° | 4825.2 | 4041.6 | 2679.8 | 2077.8 | 2000.2 | 2036.5 | 2084.0 | 2126.6 | 2154.1 | 2176.6 | 2179.1 |
| 20° | 4807.6 | 3873.9 | 2409.5 | 1950.1 | 1955.1 | 2013.9 | 2065.2 | 2105.3 | 2135.3 | 2146.6 | 2155.4 |
| 22.5° | 4740.1 | 3673.6 | 2174.1 | 1851.2 | 1901.3 | 1982.6 | 2044.0 | 2067.7 | 2034.0 | 2010.2 | 2016.4 |
| 25° | 4624.9 | 3413.3 | 1955.1 | 1771.1 | 1852.5 | 1938.8 | 2001.4 | 1943.8 | 1916.3 | 1906.3 | 1911.3 |
| 27.5° | 4481.0 | 3127.9 | 1789.9 | 1687.2 | 1789.9 | 1890.0 | 1872.5 | 1862.5 | 1850.0 | 1833.7 | 1837.4 |
| 30° | 4325.7 | 2848.8 | 1649.7 | 1622.2 | 1722.3 | 1779.9 | 1787.4 | 1803.6 | 1789.9 | 1764.8 | 1774.9 |
| 32.5° | 4181.8 | 2585.9 | 1543.3 | 1567.1 | 1674.7 | 1666.0 | 1722.3 | 1741.1 | 1677.2 | 1593.4 | 1597.1 |
| 35° | 4059.1 | 2341.9 | 1463.2 | 1513.3 | 1593.4 | 1597.1 | 1653.4 | 1588.4 | 1519.5 | 1479.5 | 1482.0 |
| 37.5° | 3966.5 | 2151.6 | 1410.6 | 1466.9 | 1489.5 | 1537.0 | 1507.0 | 1473.2 | 1464.4 | 1436.9 | 1438.2 |
| 40° | 3911.4 | 1985.1 | 1376.8 | 1430.7 | 1426.9 | 1459.4 | 1363.1 | 1396.9 | 1409.4 | 1400.6 | 1401.9 |
| 42.5° | 3856.4 | 1867.5 | 1341.8 | 1380.6 | 1379.3 | 1315.5 | 1294.2 | 1323.0 | 1355.6 | 1359.3 | 1356.8 |
| 45° | 3812.6 | 1776.1 | 1305.5 | 1304.2 | 1329.3 | 1229.1 | 1222.9 | 1240.4 | 1286.7 | 1309.2 | 1308.0 |
| 47.5° | 3763.8 | 1699.8 | 1250.4 | 1215.4 | 1222.9 | 1175.3 | 1165.3 | 1172.8 | 1229.1 | 1265.4 | 1275.4 |
| 50° | 3702.4 | 1623.4 | 1181.6 | 1134.0 | 1102.7 | 1125.2 | 1127.7 | 1129.0 | 1185.3 | 1226.6 | 1235.4 |
| 52.5° | 3653.6 | 1565.8 | 1102.7 | 1067.7 | 1030.1 | 1080.2 | 1099.0 | 1101.5 | 1135.3 | 1169.1 | 1175.3 |
| 55° | 3682.4 | 1533.3 | 1025.1 | 1000.1 | 966.3 | 1033.9 | 1070.2 | 1075.2 | 1082.7 | 1107.7 | 1111.5 |
| 57.5° | 3768.8 | 1540.8 | 962.5 | 930.0 | 905.0 | 978.8 | 1040.1 | 1043.9 | 1038.9 | 1068.9 | 1073.9 |
| 60° | 3795.0 | 1537.0 | 916.2 | 852.4 | 837.4 | 920.0 | 996.3 | 1003.8 | 1002.6 | 1046.4 | 1055.2 |
| 62.5° | 3684.9 | 1489.5 | 869.9 | 787.3 | 777.3 | 859.9 | 935.0 | 965.0 | 971.3 | 1033.9 | 1045.1 |
| 65° | 3425.8 | 1391.8 | 808.6 | 718.5 | 718.5 | 796.1 | 876.2 | 917.5 | 935.0 | 1018.9 | 1031.4 |
| 67.5° | 3084.1 | 1276.7 | 746.0 | 659.6 | 657.1 | 734.7 | 813.6 | 856.1 | 883.7 | 997.6 | 1005.1 |
| 70° | 2559.7 | 1121.5 | 668.4 | 595.8 | 595.8 | 665.9 | 737.2 | 788.5 | 828.6 | 957.5 | 957.5 |
| 72.5° | 1753.6 | 932.5 | 574.5 | 523.2 | 524.4 | 589.5 | 662.1 | 719.7 | 767.3 | 877.4 | 879.9 |
| 75° | 1109.0 | 728.5 | 471.9 | 445.6 | 450.6 | 511.9 | 587.0 | 647.1 | 742.2 | 867.4 | 871.2 |
| 77.5° | 589.5 | 511.9 | 375.5 | 369.2 | 375.5 | 431.8 | 515.7 | 598.3 | 744.7 | 752.2 | 739.7 |
| 80° | 381.8 | 363.0 | 296.6 | 284.1 | 286.6 | 348.0 | 459.4 | 568.3 | 598.3 | 605.8 | 578.3 |
| 82.5° | 207.8 | 230.3 | 210.3 | 197.8 | 197.8 | 271.6 | 391.8 | 451.9 | 429.3 | 356.7 | 340.5 |
| 85° | 88.9 | 107.6 | 108.9 | 95.1 | 91.4 | 167.7 | 262.8 | 246.6 | 229.1 | 219.0 | 216.5 |
| 87.5° | 25.0 | 35.0 | 35.0 | 26.3 | 20.0 | 46.3 | 52.6 | 15.0 | 0.0 | 1.3 | 2.5 |
| 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)