

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: P452472

Luminaire Tested: **GLAN-SA3B-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3B-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13756 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

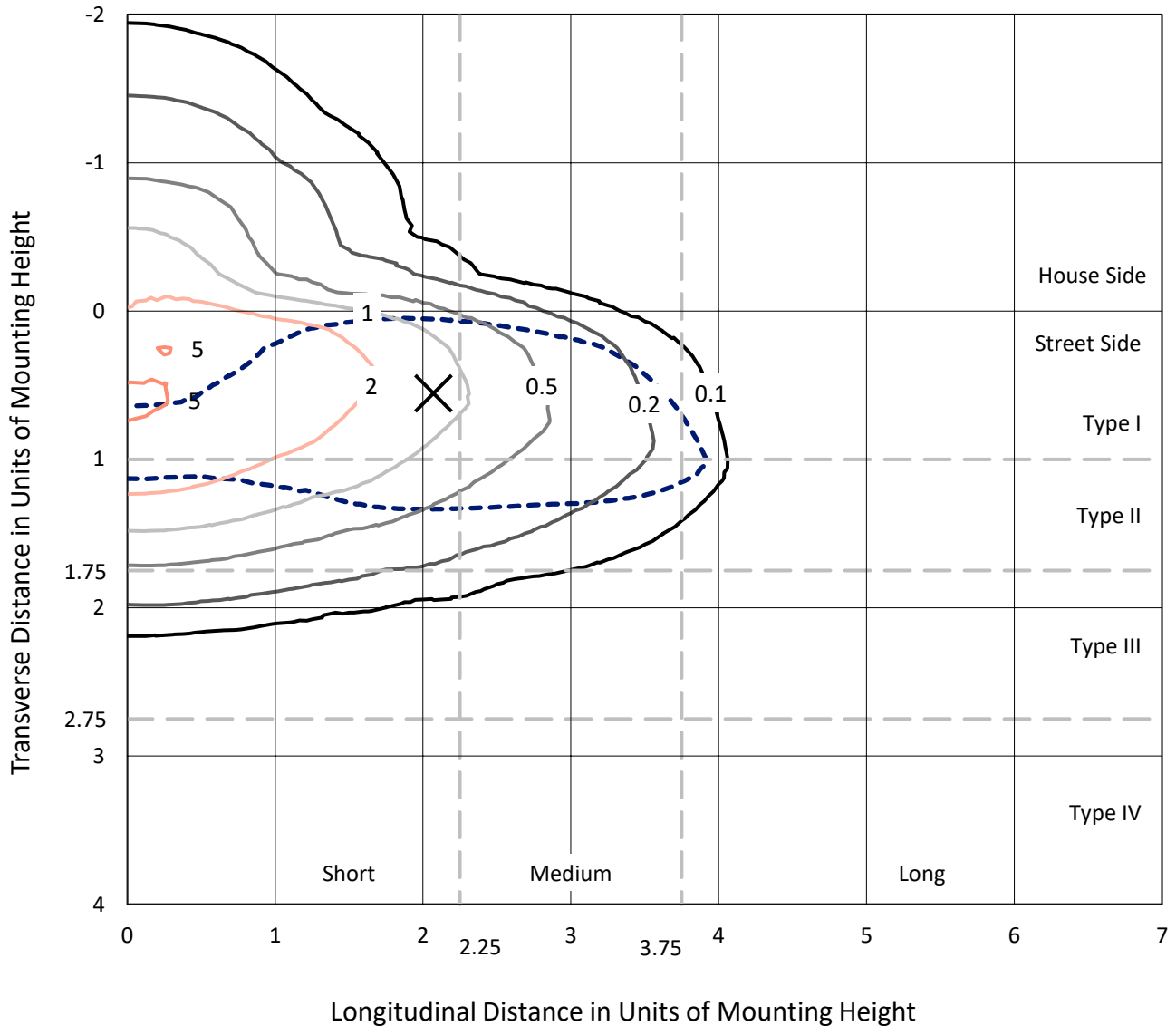
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

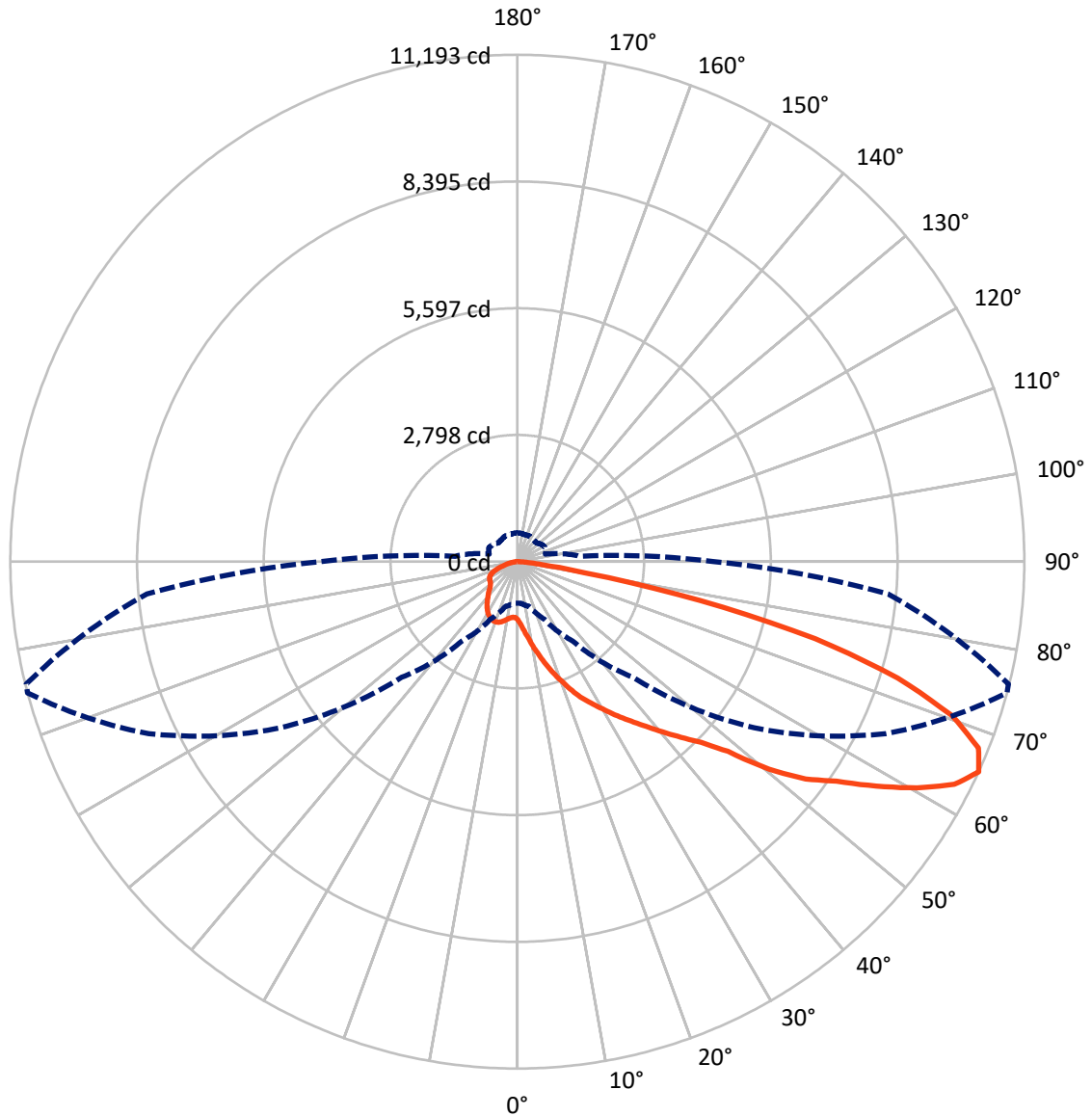
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2312.6 | 0.0 | 2312.6 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 11443.4 | 0.0 | 11443.4 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 13756.0 | 0.0 | 13756.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 155.3 | 1.1 |
| 10°-20° | 608.2 | 4.4 |
| 20°-30° | 1174.9 | 8.5 |
| 30°-40° | 1908.4 | 13.9 |
| 40°-50° | 2625.2 | 19.1 |
| 50°-60° | 3099.4 | 22.5 |
| 60°-70° | 2715.6 | 19.7 |
| 70°-80° | 1296.4 | 9.4 |
| 80°-90° | 172.5 | 1.3 |
| 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° | 13756.0 | 100.0 |
| 0°-180° | 13756.0 | 100.0 |

Coefficient of Utilization



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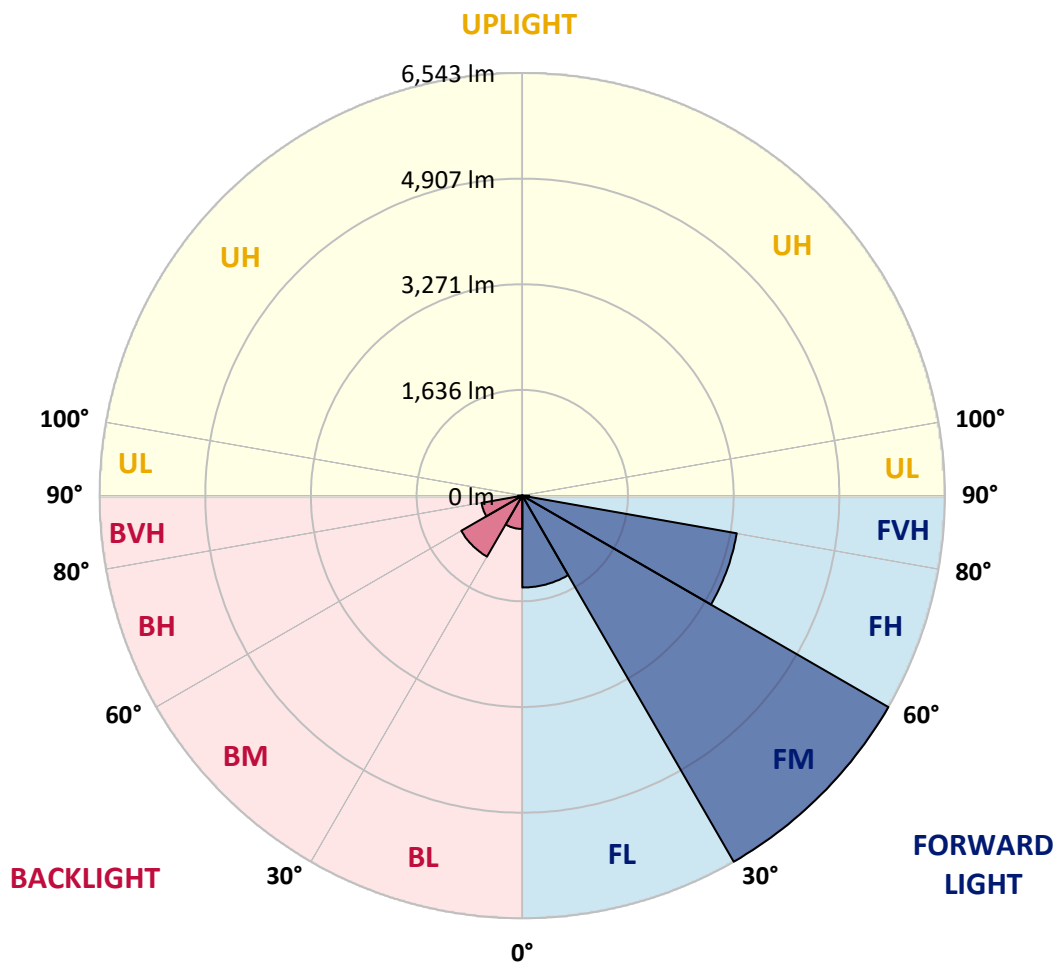
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1422.1 | 10.3 | | | |
| FM | (30°-60°) | 6542.6 | 47.6 | | | |
| FH | (60°-80°) | 3370.8 | 24.5 | | | G2/5000 |
| FVH | (80°-90°) | 107.8 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 516.3 | 3.8 | B2/1000 | | |
| BM | (30°-60°) | 1090.4 | 7.9 | B2/2500 | | |
| BH | (60°-80°) | 641.2 | 4.7 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 64.7 | 0.5 | | | 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° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 1278.1 | 1278.1 | 1278.1 | 1278.1 | 1278.1 | 1278.1 | 1278.1 | 1278.1 | 1278.1 | 1278.1 | 1278.1 |
| 2.5° | 1698.2 | 1687.0 | 1675.0 | 1642.2 | 1607.1 | 1567.6 | 1510.9 | 1456.4 | 1384.1 | 1381.8 | 1328.1 |
| 5° | 2169.0 | 2161.5 | 2108.5 | 2077.9 | 1996.6 | 1888.4 | 1796.7 | 1654.2 | 1522.1 | 1506.4 | 1402.0 |
| 7.5° | 2601.7 | 2572.6 | 2552.5 | 2497.3 | 2416.7 | 2277.9 | 2100.3 | 1907.8 | 1687.0 | 1666.1 | 1493.0 |
| 10° | 2927.8 | 2924.8 | 2914.4 | 2866.6 | 2806.2 | 2668.1 | 2471.2 | 2195.1 | 1895.9 | 1854.9 | 1603.4 |
| 12.5° | 3171.8 | 3174.0 | 3172.5 | 3171.8 | 3128.5 | 3011.3 | 2798.0 | 2507.0 | 2107.0 | 2077.9 | 1731.0 |
| 15° | 3332.2 | 3354.6 | 3363.5 | 3400.8 | 3404.6 | 3326.2 | 3142.7 | 2808.4 | 2345.1 | 2301.8 | 1868.3 |
| 17.5° | 3438.1 | 3449.3 | 3491.1 | 3554.5 | 3606.0 | 3591.8 | 3428.4 | 3087.5 | 2588.3 | 2515.9 | 2010.8 |
| 20° | 3539.6 | 3559.0 | 3591.1 | 3677.6 | 3768.7 | 3810.4 | 3695.5 | 3373.2 | 2829.3 | 2783.0 | 2168.2 |
| 22.5° | 3750.8 | 3778.4 | 3789.6 | 3833.6 | 3911.2 | 3985.0 | 3932.8 | 3647.0 | 3093.4 | 3030.7 | 2335.4 |
| 25° | 4108.1 | 4137.2 | 4105.9 | 4095.5 | 4120.8 | 4157.4 | 4146.2 | 3905.2 | 3342.6 | 3253.1 | 2493.5 |
| 27.5° | 4573.7 | 4577.5 | 4516.3 | 4458.1 | 4395.4 | 4376.7 | 4342.4 | 4134.3 | 3559.0 | 3484.4 | 2652.5 |
| 30° | 5073.6 | 5055.7 | 4954.2 | 4849.0 | 4743.1 | 4638.6 | 4540.1 | 4355.1 | 3800.0 | 3714.2 | 2808.4 |
| 32.5° | 5537.7 | 5528.0 | 5415.3 | 5251.9 | 5072.9 | 4974.4 | 4775.2 | 4578.2 | 4058.2 | 3975.3 | 2968.8 |
| 35° | 5885.4 | 5899.6 | 5775.7 | 5597.4 | 5401.9 | 5314.6 | 5063.2 | 4812.5 | 4325.3 | 4235.0 | 3143.4 |
| 37.5° | 6132.4 | 6124.9 | 6015.2 | 5860.8 | 5689.2 | 5613.1 | 5399.7 | 5068.4 | 4612.5 | 4526.0 | 3334.4 |
| 40° | 6220.4 | 6215.9 | 6134.6 | 6021.9 | 5913.0 | 5886.2 | 5751.9 | 5344.5 | 4941.6 | 4840.1 | 3564.2 |
| 42.5° | 6164.5 | 6174.2 | 6120.4 | 6089.8 | 6069.7 | 6089.1 | 6101.8 | 5706.3 | 5300.4 | 5207.2 | 3813.4 |
| 45° | 5992.8 | 5987.6 | 5980.2 | 6030.2 | 6143.6 | 6271.2 | 6448.0 | 6048.1 | 5690.7 | 5616.1 | 4147.7 |
| 47.5° | 5686.2 | 5723.5 | 5742.2 | 5880.2 | 6127.9 | 6430.1 | 6846.4 | 6506.2 | 6257.0 | 6192.1 | 4657.3 |
| 50° | 5257.2 | 5287.0 | 5397.4 | 5642.9 | 6012.2 | 6489.8 | 7235.9 | 7255.3 | 7201.6 | 7079.9 | 5210.9 |
| 52.5° | 4587.2 | 4633.4 | 4861.0 | 5310.9 | 5775.0 | 6465.1 | 7471.7 | 7897.7 | 7968.6 | 7877.6 | 5756.3 |
| 55° | 3837.3 | 3902.2 | 4142.5 | 4732.6 | 5448.2 | 6330.8 | 7634.3 | 8270.0 | 8552.8 | 8468.5 | 6281.6 |
| 57.5° | 3103.1 | 3171.8 | 3418.7 | 3990.3 | 4878.1 | 6033.9 | 7741.0 | 8684.9 | 9348.2 | 9238.5 | 6935.2 |
| 60° | 2325.7 | 2397.3 | 2609.2 | 3197.9 | 4066.4 | 5453.4 | 7668.6 | 9044.5 | 10142.8 | 10095.8 | 7589.5 |
| 62.5° | 1500.5 | 1579.5 | 1763.8 | 2251.0 | 3125.5 | 4660.3 | 7281.4 | 9243.0 | 10830.7 | 10774.0 | 8067.1 |
| 65° | 914.0 | 923.0 | 1024.4 | 1397.5 | 2139.1 | 3608.2 | 6395.8 | 8979.6 | 11193.3 | 11176.2 | 8212.6 |
| 67.5° | 590.9 | 605.1 | 651.4 | 837.1 | 1282.6 | 2506.2 | 5113.9 | 8110.3 | 10981.4 | 10975.4 | 7911.9 |
| 70° | 499.2 | 503.6 | 524.5 | 564.8 | 745.4 | 1519.8 | 3591.1 | 6724.8 | 10176.4 | 10176.4 | 7188.9 |
| 72.5° | 446.2 | 452.1 | 459.6 | 472.3 | 532.0 | 861.0 | 2142.9 | 5234.8 | 8786.3 | 8844.5 | 6118.9 |
| 75° | 405.1 | 403.7 | 408.1 | 410.4 | 453.6 | 562.6 | 1108.0 | 3871.6 | 6797.2 | 6680.8 | 4431.2 |
| 77.5° | 346.9 | 349.2 | 346.9 | 356.6 | 400.7 | 428.3 | 562.6 | 2598.0 | 4119.3 | 3968.6 | 2224.2 |
| 80° | 285.0 | 288.7 | 292.5 | 298.4 | 342.5 | 325.3 | 338.0 | 1184.1 | 1523.6 | 1491.5 | 687.2 |
| 82.5° | 214.1 | 219.4 | 225.3 | 239.5 | 269.3 | 214.9 | 213.4 | 505.9 | 549.9 | 503.6 | 252.9 |
| 85° | 86.6 | 102.2 | 154.4 | 168.6 | 169.4 | 117.9 | 131.3 | 211.2 | 224.6 | 219.4 | 99.2 |
| 87.5° | 20.1 | 23.9 | 50.0 | 75.4 | 69.4 | 44.0 | 48.5 | 68.6 | 78.3 | 72.4 | 33.6 |
| 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-SA3B-830-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1278.1 | 1278.1 | 1278.1 | 1278.1 | 1278.1 | 1278.1 | 1278.1 | 1278.1 | 1278.1 | 1278.1 | 1278.1 |
| 2.5° | 1303.5 | 1277.4 | 1232.6 | 1198.3 | 1173.6 | 1152.0 | 1138.6 | 1130.4 | 1127.4 | 1126.6 | 1127.4 |
| 5° | 1347.5 | 1301.2 | 1230.4 | 1185.6 | 1161.0 | 1146.8 | 1138.6 | 1137.8 | 1138.6 | 1139.3 | 1137.1 |
| 7.5° | 1407.9 | 1341.5 | 1249.0 | 1207.2 | 1188.6 | 1178.1 | 1174.4 | 1172.9 | 1173.6 | 1172.9 | 1172.9 |
| 10° | 1488.5 | 1397.5 | 1285.6 | 1242.3 | 1226.6 | 1214.7 | 1208.7 | 1205.0 | 1202.0 | 1199.0 | 1197.5 |
| 12.5° | 1577.3 | 1459.4 | 1325.1 | 1283.3 | 1260.9 | 1242.3 | 1228.9 | 1219.2 | 1212.4 | 1205.7 | 1204.2 |
| 15° | 1676.5 | 1525.1 | 1369.1 | 1310.9 | 1278.9 | 1251.2 | 1228.1 | 1212.4 | 1200.5 | 1190.8 | 1190.1 |
| 17.5° | 1771.3 | 1587.0 | 1399.0 | 1323.6 | 1276.6 | 1237.8 | 1207.2 | 1185.6 | 1170.7 | 1158.0 | 1156.5 |
| 20° | 1872.8 | 1645.9 | 1412.4 | 1315.4 | 1254.2 | 1207.2 | 1166.9 | 1140.8 | 1123.7 | 1109.5 | 1107.2 |
| 22.5° | 1975.0 | 1695.9 | 1410.9 | 1289.3 | 1215.4 | 1160.2 | 1117.7 | 1090.1 | 1069.9 | 1055.8 | 1050.5 |
| 25° | 2072.7 | 1736.2 | 1392.3 | 1247.5 | 1161.7 | 1104.3 | 1061.0 | 1035.6 | 1017.7 | 1000.5 | 1000.5 |
| 27.5° | 2160.8 | 1760.1 | 1357.2 | 1196.8 | 1106.5 | 1046.1 | 1011.7 | 988.6 | 972.2 | 961.0 | 954.3 |
| 30° | 2247.3 | 1771.3 | 1309.4 | 1132.6 | 1048.3 | 996.8 | 969.2 | 955.8 | 940.9 | 928.2 | 926.7 |
| 32.5° | 2324.9 | 1769.1 | 1249.8 | 1069.9 | 993.1 | 956.5 | 945.3 | 934.9 | 919.2 | 901.3 | 896.8 |
| 35° | 2400.3 | 1754.1 | 1178.9 | 1001.3 | 946.8 | 932.7 | 935.6 | 920.7 | 892.4 | 870.0 | 866.2 |
| 37.5° | 2482.3 | 1727.3 | 1101.3 | 945.3 | 908.0 | 921.5 | 928.9 | 896.1 | 849.8 | 814.8 | 806.6 |
| 40° | 2577.1 | 1696.7 | 1020.7 | 889.4 | 877.4 | 911.0 | 911.0 | 850.6 | 787.2 | 765.5 | 759.6 |
| 42.5° | 2688.3 | 1671.3 | 953.5 | 842.4 | 852.1 | 885.6 | 881.9 | 790.1 | 764.0 | 752.8 | 749.9 |
| 45° | 2864.4 | 1662.4 | 884.2 | 801.3 | 831.2 | 855.8 | 825.2 | 769.3 | 754.3 | 745.4 | 742.4 |
| 47.5° | 3142.7 | 1672.8 | 823.0 | 770.7 | 807.3 | 826.0 | 761.8 | 755.1 | 744.6 | 731.9 | 730.5 |
| 50° | 3400.8 | 1663.1 | 779.7 | 753.6 | 786.4 | 790.1 | 735.7 | 737.9 | 731.9 | 717.8 | 714.8 |
| 52.5° | 3612.0 | 1632.5 | 752.1 | 744.6 | 768.5 | 727.5 | 711.1 | 719.3 | 717.0 | 699.1 | 696.1 |
| 55° | 3844.0 | 1613.9 | 738.7 | 744.6 | 756.6 | 673.0 | 687.9 | 699.9 | 696.9 | 684.2 | 683.4 |
| 57.5° | 4125.3 | 1617.6 | 729.0 | 746.9 | 744.6 | 645.4 | 664.8 | 679.0 | 678.2 | 674.5 | 674.5 |
| 60° | 4413.3 | 1619.1 | 714.0 | 746.1 | 730.5 | 623.8 | 640.9 | 661.1 | 662.6 | 664.8 | 664.8 |
| 62.5° | 4508.8 | 1554.2 | 684.9 | 732.7 | 699.1 | 602.9 | 618.5 | 646.1 | 644.6 | 650.6 | 651.4 |
| 65° | 4330.5 | 1374.4 | 641.7 | 702.1 | 658.8 | 587.9 | 601.4 | 626.7 | 618.5 | 634.2 | 637.2 |
| 67.5° | 3941.8 | 1137.1 | 574.5 | 646.9 | 614.1 | 572.3 | 590.2 | 599.9 | 585.0 | 615.6 | 616.3 |
| 70° | 3406.8 | 887.9 | 489.5 | 568.5 | 563.3 | 555.9 | 581.2 | 566.3 | 545.4 | 582.7 | 575.3 |
| 72.5° | 2848.7 | 678.2 | 391.0 | 464.8 | 495.4 | 531.2 | 565.6 | 523.0 | 493.9 | 505.1 | 491.7 |
| 75° | 2139.9 | 501.4 | 314.1 | 364.1 | 412.6 | 496.2 | 551.4 | 470.8 | 426.0 | 415.6 | 412.6 |
| 77.5° | 1090.8 | 327.5 | 235.0 | 272.3 | 309.6 | 448.4 | 532.0 | 409.6 | 352.9 | 336.5 | 329.0 |
| 80° | 389.5 | 203.7 | 165.6 | 188.0 | 208.9 | 385.7 | 464.8 | 338.7 | 273.8 | 270.8 | 273.8 |
| 82.5° | 180.6 | 131.3 | 111.2 | 123.1 | 123.9 | 257.4 | 354.4 | 252.9 | 208.2 | 316.4 | 267.1 |
| 85° | 77.6 | 65.7 | 62.7 | 61.2 | 56.7 | 114.9 | 199.2 | 135.8 | 211.9 | 94.8 | 87.3 |
| 87.5° | 23.1 | 26.1 | 23.1 | 17.2 | 12.7 | 12.7 | 20.1 | 7.5 | 5.2 | 3.7 | 3.7 |
| 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)