

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: P654222

Luminaire Tested: **GLAN-SA2B-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2B-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8457.1 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

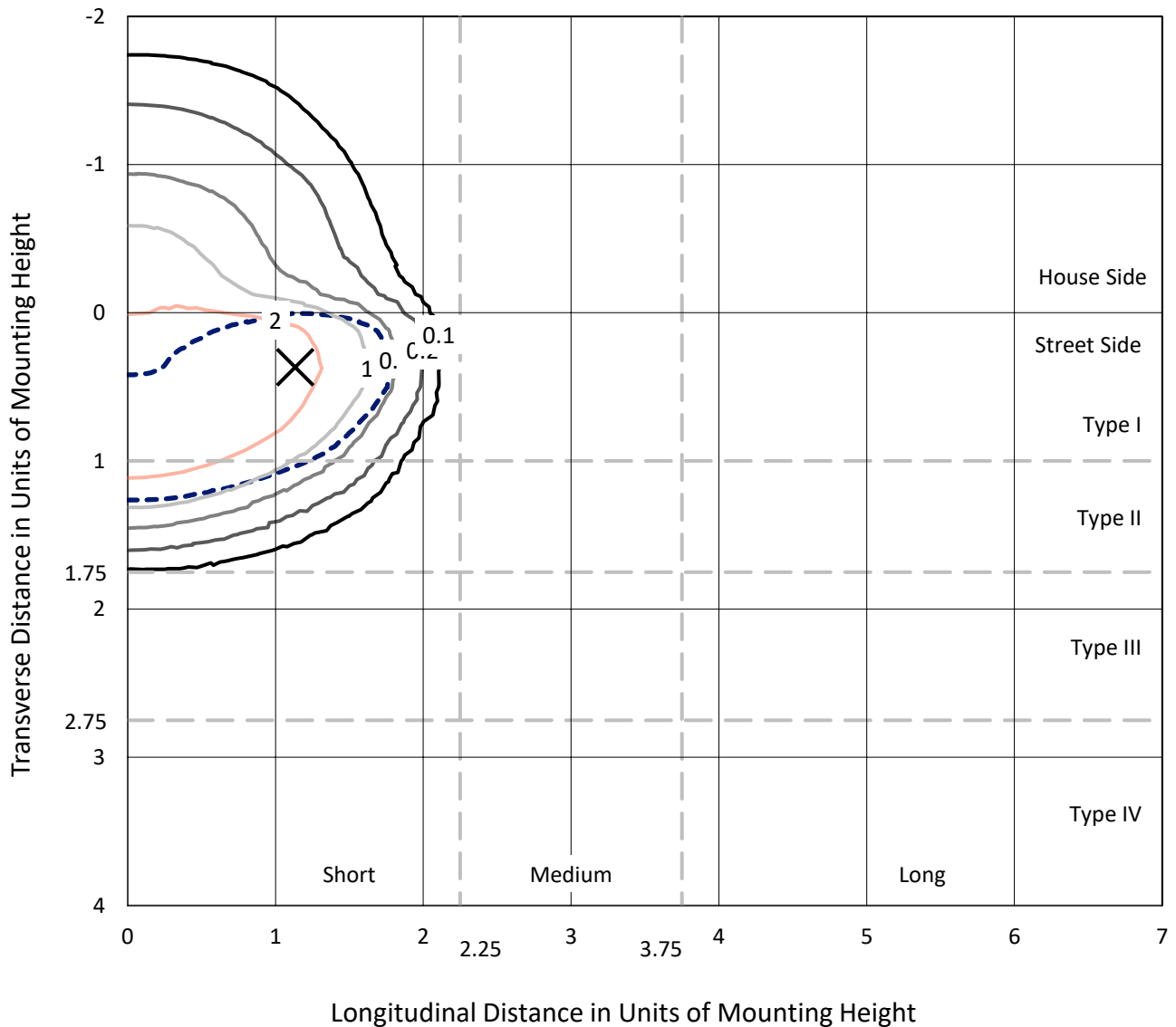
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

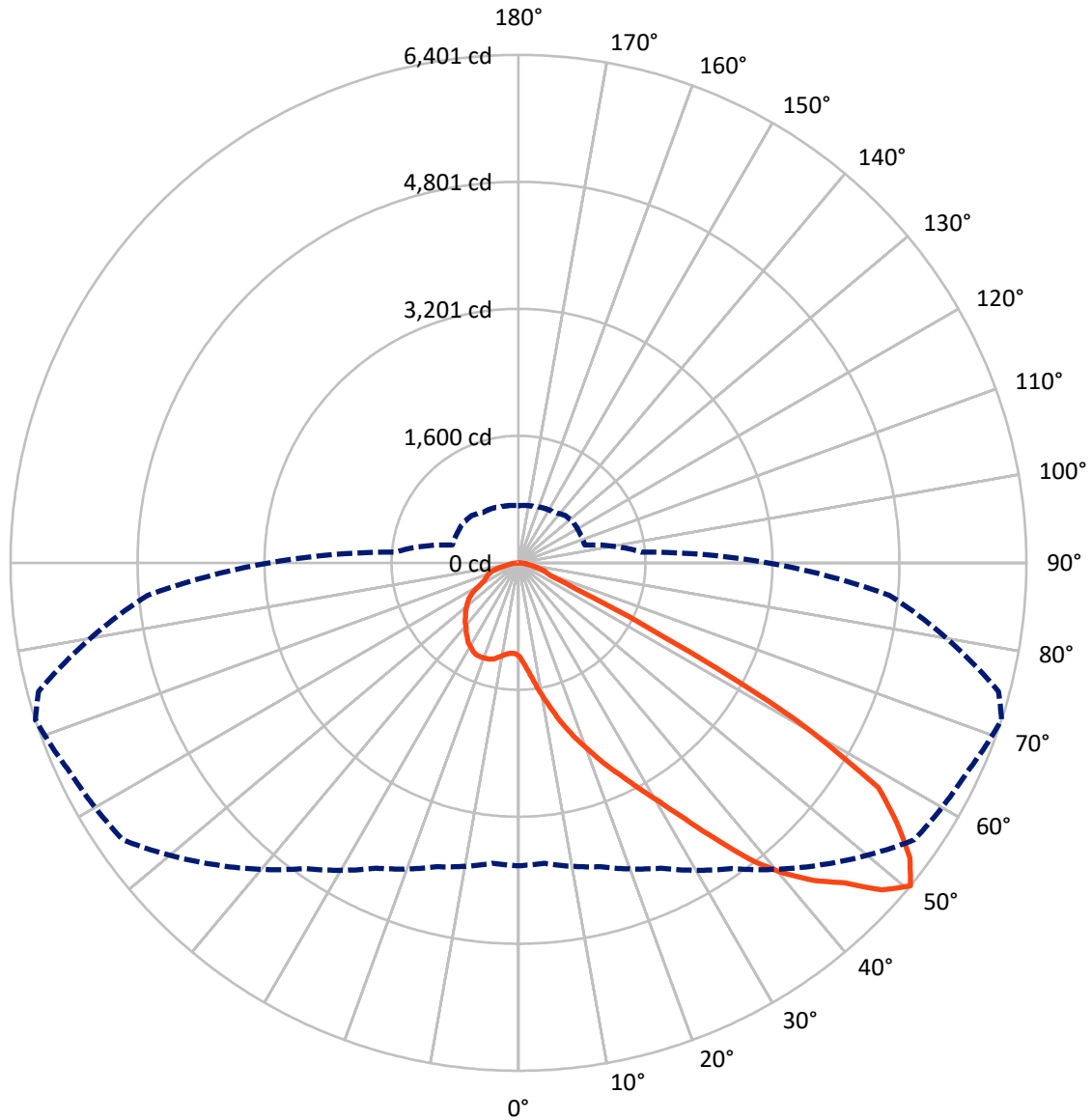
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1937.6 | 0.0 | 1937.6 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 6519.5 | 0.0 | 6519.5 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 8457.1 | 0.0 | 8457.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 138.5 | 1.6 |
| 10°-20° | 517.7 | 6.1 |
| 20°-30° | 1003.8 | 11.9 |
| 30°-40° | 1662.9 | 19.7 |
| 40°-50° | 2326.7 | 27.5 |
| 50°-60° | 1962.9 | 23.2 |
| 60°-70° | 598.3 | 7.1 |
| 70°-80° | 209.9 | 2.5 |
| 80°-90° | 36.5 | 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° | 8457.1 | 100.0 |
| 0°-180° | 8457.1 | 100.0 |

Coefficient of Utilization



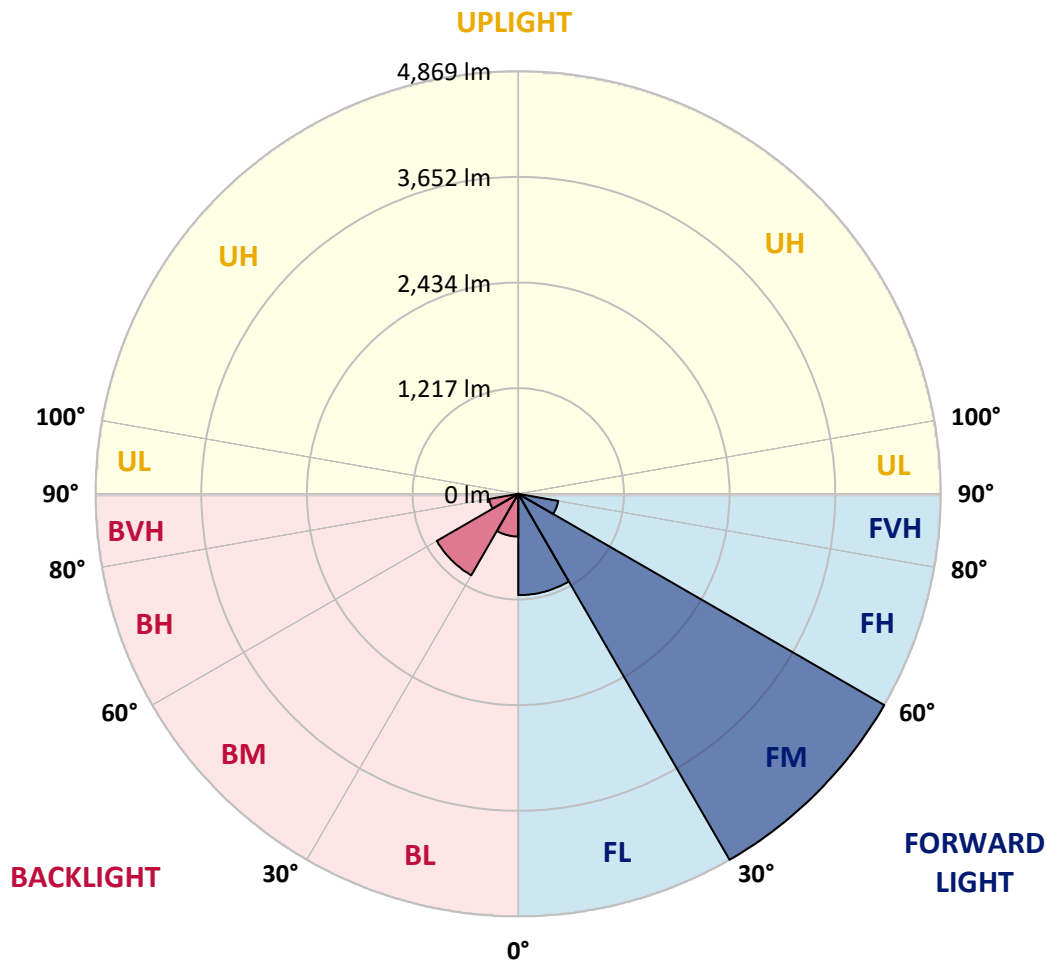
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1167.4 | 13.8 | | | |
| FM (30°-60°) | 4869.0 | 57.6 | | | |
| FH (60°-80°) | 466.8 | 5.5 | | | G0/660 |
| FVH (80°-90°) | 16.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 492.5 | 5.8 | B1/500 | | |
| BM (30°-60°) | 1083.5 | 12.8 | B2/2500 | | |
| BH (60°-80°) | 341.4 | 4.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 20.1 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1177.3 | 1177.3 | 1177.3 | 1177.3 | 1177.3 | 1177.3 | 1177.3 | 1177.3 | 1177.3 | 1177.3 | 1177.3 |
| 2.5° | 1514.3 | 1504.9 | 1476.6 | 1467.2 | 1433.7 | 1373.0 | 1352.1 | 1290.3 | 1264.2 | 1240.1 | 1211.8 |
| 5° | 1915.0 | 1871.1 | 1867.9 | 1814.6 | 1737.2 | 1692.2 | 1558.2 | 1468.2 | 1385.5 | 1343.7 | 1266.2 |
| 7.5° | 2170.5 | 2171.5 | 2171.5 | 2127.5 | 2065.7 | 1951.7 | 1831.4 | 1669.1 | 1544.6 | 1482.9 | 1351.0 |
| 10° | 2413.2 | 2392.3 | 2380.8 | 2376.6 | 2334.7 | 2223.8 | 2095.1 | 1894.2 | 1723.5 | 1651.4 | 1414.8 |
| 12.5° | 2584.8 | 2567.1 | 2593.2 | 2579.6 | 2549.2 | 2477.0 | 2355.6 | 2126.5 | 1913.0 | 1815.6 | 1517.4 |
| 15° | 2666.5 | 2679.0 | 2699.9 | 2737.6 | 2724.0 | 2696.8 | 2562.9 | 2365.1 | 2117.0 | 2007.1 | 1608.4 |
| 17.5° | 2792.0 | 2757.5 | 2782.6 | 2829.7 | 2867.4 | 2854.9 | 2778.4 | 2537.7 | 2319.1 | 2184.0 | 1730.9 |
| 20° | 2879.9 | 2860.1 | 2872.6 | 2927.0 | 2955.3 | 3026.4 | 2986.6 | 2763.8 | 2512.7 | 2370.3 | 1875.3 |
| 22.5° | 3131.1 | 3101.8 | 3061.0 | 3069.3 | 3079.8 | 3130.0 | 3139.5 | 3011.8 | 2737.6 | 2586.9 | 2012.4 |
| 25° | 3440.9 | 3413.6 | 3365.5 | 3316.3 | 3286.0 | 3276.5 | 3309.0 | 3206.5 | 2953.2 | 2797.3 | 2159.9 |
| 27.5° | 3782.0 | 3736.0 | 3705.6 | 3604.1 | 3522.4 | 3509.9 | 3494.2 | 3438.8 | 3208.5 | 3040.0 | 2326.4 |
| 30° | 4113.8 | 4077.1 | 4036.3 | 3874.1 | 3789.4 | 3775.8 | 3698.3 | 3714.0 | 3485.9 | 3298.6 | 2514.7 |
| 32.5° | 4364.9 | 4368.1 | 4274.9 | 4152.4 | 4073.0 | 4000.7 | 3972.5 | 4017.5 | 3841.7 | 3691.0 | 2725.1 |
| 35° | 4567.9 | 4577.3 | 4488.4 | 4377.5 | 4291.6 | 4341.9 | 4329.3 | 4350.2 | 4266.6 | 4082.4 | 2969.9 |
| 37.5° | 4765.7 | 4718.6 | 4623.4 | 4570.0 | 4525.0 | 4607.7 | 4714.4 | 4732.2 | 4747.9 | 4531.3 | 3254.6 |
| 40° | 4798.2 | 4802.4 | 4746.9 | 4784.5 | 4728.0 | 4852.6 | 5100.6 | 5077.5 | 5141.4 | 4952.0 | 3563.3 |
| 42.5° | 4752.1 | 4761.5 | 4783.5 | 4836.8 | 4972.9 | 5122.5 | 5490.9 | 5396.8 | 5474.2 | 5305.7 | 3863.6 |
| 45° | 4676.7 | 4638.0 | 4665.3 | 4868.3 | 5103.7 | 5436.5 | 5847.8 | 5774.6 | 5749.4 | 5608.1 | 4221.6 |
| 47.5° | 4316.8 | 4356.5 | 4441.3 | 4691.4 | 5045.2 | 5490.9 | 6101.0 | 6084.3 | 6159.7 | 6060.2 | 4547.0 |
| 50° | 3817.6 | 3801.9 | 3965.1 | 4246.6 | 4703.0 | 5384.2 | 6087.4 | 6239.1 | 6401.4 | 6263.3 | 4692.4 |
| 52.5° | 2859.0 | 2942.7 | 3082.9 | 3432.5 | 4083.4 | 4802.4 | 5790.2 | 6043.5 | 6175.3 | 6146.0 | 4575.2 |
| 55° | 1807.3 | 1832.4 | 1917.1 | 2332.6 | 2918.7 | 3854.2 | 4963.5 | 5550.6 | 5786.0 | 5895.9 | 4467.5 |
| 57.5° | 878.0 | 830.9 | 934.5 | 1268.3 | 1685.9 | 2592.1 | 3828.1 | 4834.7 | 5346.5 | 5545.4 | 4233.0 |
| 60° | 458.3 | 476.2 | 517.0 | 636.3 | 871.7 | 1345.8 | 2386.0 | 3222.1 | 4003.8 | 4309.5 | 3208.5 |
| 62.5° | 379.9 | 386.2 | 413.4 | 473.0 | 579.8 | 774.4 | 1218.1 | 1570.8 | 2041.7 | 2317.0 | 1825.1 |
| 65° | 322.4 | 325.5 | 354.7 | 394.5 | 462.6 | 545.2 | 626.9 | 656.1 | 794.3 | 815.2 | 648.8 |
| 67.5° | 269.0 | 272.1 | 303.5 | 341.2 | 385.1 | 407.0 | 428.0 | 425.9 | 441.6 | 435.3 | 434.3 |
| 70° | 207.2 | 210.3 | 242.8 | 282.6 | 304.5 | 292.0 | 356.8 | 371.5 | 377.8 | 383.0 | 391.4 |
| 72.5° | 149.6 | 155.9 | 181.1 | 209.3 | 197.8 | 227.1 | 294.1 | 316.0 | 324.4 | 327.6 | 338.0 |
| 75° | 108.8 | 110.9 | 117.2 | 108.8 | 125.6 | 158.0 | 207.2 | 234.4 | 244.9 | 248.0 | 263.7 |
| 77.5° | 48.1 | 49.2 | 50.2 | 62.8 | 80.6 | 98.4 | 123.5 | 145.5 | 160.1 | 164.3 | 168.5 |
| 80° | 25.1 | 26.2 | 32.5 | 42.9 | 57.5 | 72.2 | 90.0 | 102.5 | 111.9 | 113.0 | 117.2 |
| 82.5° | 15.7 | 16.7 | 23.0 | 30.4 | 40.8 | 53.4 | 65.9 | 76.4 | 83.7 | 84.8 | 85.8 |
| 85° | 7.3 | 9.4 | 13.6 | 18.8 | 27.2 | 34.6 | 35.6 | 30.4 | 32.5 | 33.5 | 31.4 |
| 87.5° | 2.1 | 3.1 | 4.2 | 3.1 | 4.2 | 4.2 | 5.2 | 6.3 | 6.3 | 6.3 | 7.3 |
| 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-840-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1177.3 | 1177.3 | 1177.3 | 1177.3 | 1177.3 | 1177.3 | 1177.3 | 1177.3 | 1177.3 | 1177.3 | 1177.3 |
| 2.5° | 1196.2 | 1186.7 | 1150.1 | 1136.5 | 1100.9 | 1107.2 | 1088.3 | 1087.3 | 1083.1 | 1082.0 | 1081.0 |
| 5° | 1225.4 | 1196.2 | 1152.2 | 1118.7 | 1098.9 | 1096.7 | 1083.1 | 1083.1 | 1087.3 | 1090.4 | 1083.1 |
| 7.5° | 1273.6 | 1240.1 | 1165.8 | 1134.4 | 1116.6 | 1113.5 | 1104.1 | 1096.7 | 1106.2 | 1103.0 | 1094.6 |
| 10° | 1329.0 | 1270.4 | 1191.9 | 1164.7 | 1135.4 | 1128.1 | 1128.1 | 1131.2 | 1115.6 | 1120.8 | 1112.4 |
| 12.5° | 1390.8 | 1312.3 | 1225.4 | 1194.1 | 1159.5 | 1155.3 | 1153.3 | 1130.2 | 1138.5 | 1134.4 | 1113.5 |
| 15° | 1469.3 | 1360.4 | 1268.3 | 1215.0 | 1185.6 | 1166.8 | 1139.6 | 1135.4 | 1130.2 | 1119.7 | 1110.3 |
| 17.5° | 1554.0 | 1412.8 | 1288.2 | 1221.2 | 1177.3 | 1163.7 | 1142.8 | 1120.8 | 1105.1 | 1107.2 | 1099.9 |
| 20° | 1626.2 | 1460.9 | 1295.6 | 1227.5 | 1171.0 | 1144.9 | 1112.4 | 1098.9 | 1082.0 | 1081.0 | 1080.0 |
| 22.5° | 1712.0 | 1525.7 | 1306.0 | 1210.8 | 1152.2 | 1125.0 | 1103.0 | 1078.9 | 1067.4 | 1052.8 | 1060.1 |
| 25° | 1814.6 | 1550.9 | 1308.1 | 1201.4 | 1138.5 | 1090.4 | 1078.9 | 1052.8 | 1048.6 | 1027.6 | 1031.8 |
| 27.5° | 1888.9 | 1564.5 | 1291.4 | 1172.1 | 1107.2 | 1070.6 | 1049.7 | 1030.8 | 1023.5 | 1007.8 | 1003.6 |
| 30° | 1988.3 | 1585.5 | 1255.8 | 1135.4 | 1075.8 | 1035.0 | 1022.4 | 1018.2 | 997.3 | 980.5 | 978.5 |
| 32.5° | 2101.3 | 1599.0 | 1232.7 | 1097.8 | 1043.3 | 1012.0 | 1018.2 | 998.4 | 972.2 | 957.6 | 953.4 |
| 35° | 2191.3 | 1604.3 | 1175.2 | 1054.9 | 1021.4 | 1001.5 | 994.1 | 989.9 | 952.3 | 938.7 | 928.2 |
| 37.5° | 2328.5 | 1592.8 | 1127.1 | 1024.5 | 997.3 | 989.9 | 983.7 | 955.5 | 912.6 | 892.6 | 878.0 |
| 40° | 2488.5 | 1589.7 | 1065.3 | 981.6 | 974.3 | 982.6 | 963.8 | 919.9 | 860.2 | 838.2 | 827.8 |
| 42.5° | 2642.4 | 1611.6 | 1026.6 | 958.6 | 949.2 | 952.3 | 926.1 | 860.2 | 830.9 | 818.4 | 801.6 |
| 45° | 2899.9 | 1657.6 | 962.8 | 923.0 | 918.8 | 916.7 | 885.3 | 816.3 | 799.5 | 783.8 | 780.7 |
| 47.5° | 3132.1 | 1627.3 | 922.0 | 886.4 | 890.5 | 879.0 | 812.1 | 790.1 | 771.3 | 755.6 | 750.3 |
| 50° | 3145.8 | 1555.1 | 864.4 | 858.2 | 859.2 | 839.3 | 775.5 | 760.8 | 736.7 | 726.3 | 719.0 |
| 52.5° | 3074.6 | 1436.8 | 811.1 | 813.2 | 816.3 | 783.8 | 730.4 | 720.0 | 700.1 | 685.4 | 681.3 |
| 55° | 2874.7 | 1252.7 | 758.7 | 767.1 | 775.5 | 713.7 | 696.9 | 670.8 | 655.1 | 634.2 | 635.2 |
| 57.5° | 2532.5 | 1008.8 | 685.4 | 699.0 | 716.9 | 648.8 | 636.3 | 603.8 | 580.8 | 564.1 | 562.0 |
| 60° | 1697.4 | 717.9 | 575.6 | 580.8 | 620.6 | 593.3 | 592.3 | 559.9 | 528.5 | 513.9 | 505.4 |
| 62.5° | 1001.5 | 548.3 | 497.1 | 491.8 | 490.8 | 506.5 | 532.7 | 521.2 | 480.4 | 452.1 | 460.4 |
| 65° | 524.3 | 474.1 | 462.6 | 444.7 | 434.3 | 430.1 | 450.0 | 455.2 | 428.0 | 397.6 | 395.6 |
| 67.5° | 440.6 | 440.6 | 431.2 | 424.9 | 410.2 | 392.4 | 379.9 | 363.1 | 358.9 | 350.6 | 340.1 |
| 70° | 400.8 | 411.2 | 408.1 | 393.5 | 380.9 | 361.0 | 328.6 | 301.4 | 275.3 | 265.8 | 272.1 |
| 72.5° | 349.5 | 360.0 | 360.0 | 352.6 | 335.9 | 305.5 | 274.2 | 242.8 | 220.8 | 204.0 | 202.0 |
| 75° | 269.0 | 274.2 | 286.7 | 278.4 | 256.4 | 237.6 | 205.1 | 172.7 | 151.7 | 136.1 | 132.9 |
| 77.5° | 171.6 | 180.0 | 180.0 | 179.0 | 163.2 | 145.5 | 124.6 | 101.5 | 85.8 | 74.3 | 71.1 |
| 80° | 114.0 | 119.3 | 123.5 | 119.3 | 108.8 | 95.2 | 79.6 | 63.8 | 52.3 | 42.9 | 40.8 |
| 82.5° | 83.7 | 90.0 | 93.1 | 89.0 | 78.5 | 68.0 | 56.5 | 45.0 | 33.5 | 26.2 | 24.1 |
| 85° | 32.5 | 33.5 | 37.7 | 45.0 | 44.0 | 42.9 | 34.6 | 25.1 | 18.8 | 13.6 | 12.5 |
| 87.5° | 8.4 | 7.3 | 8.4 | 8.4 | 7.3 | 6.3 | 6.3 | 6.3 | 6.3 | 3.1 | 4.2 |
| 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)