

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: P453523

Luminaire Tested: **GLAN-SA4C-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20119 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 213
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

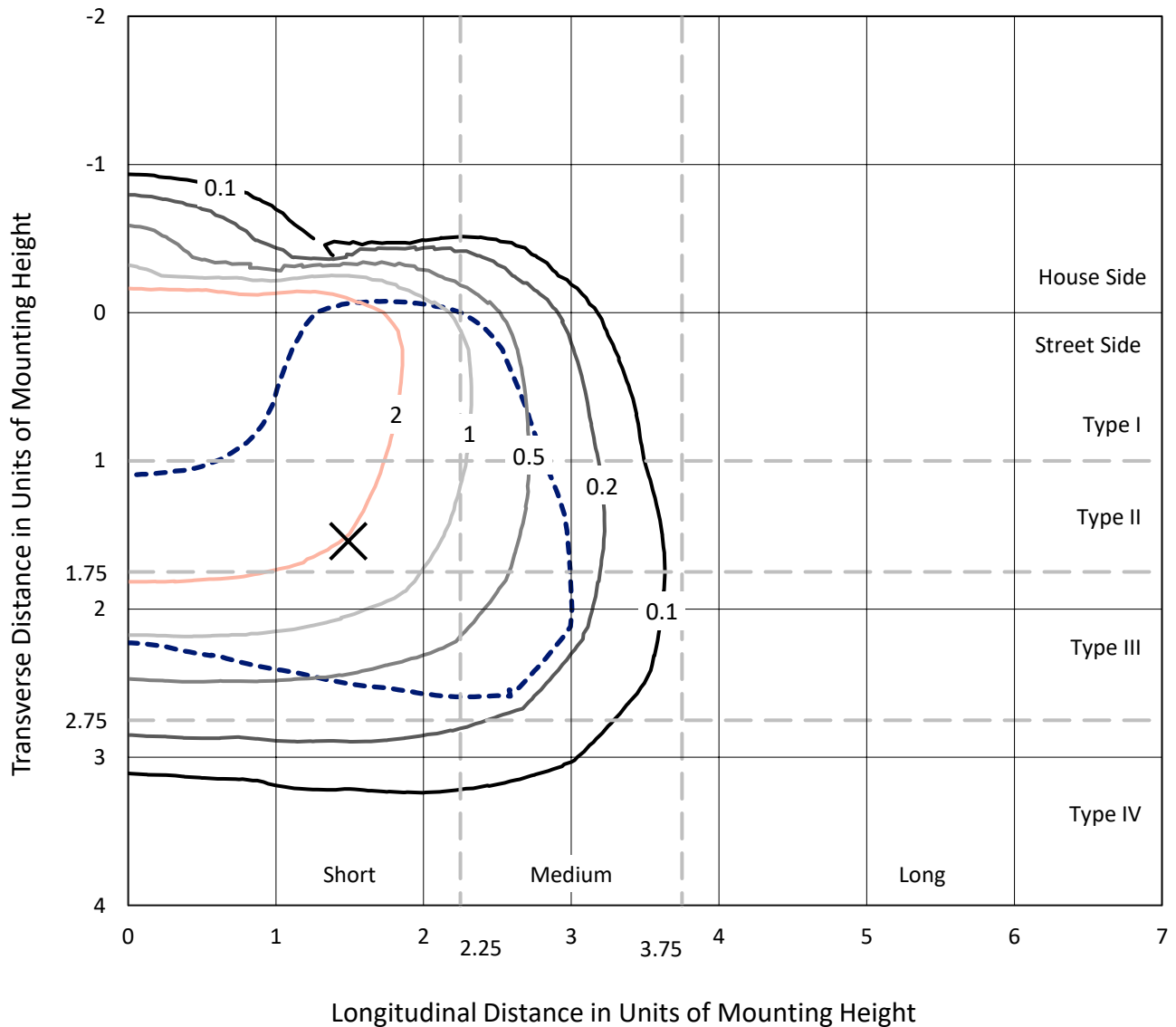




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Iso-Footcandle Lines of Horizontal Illumination

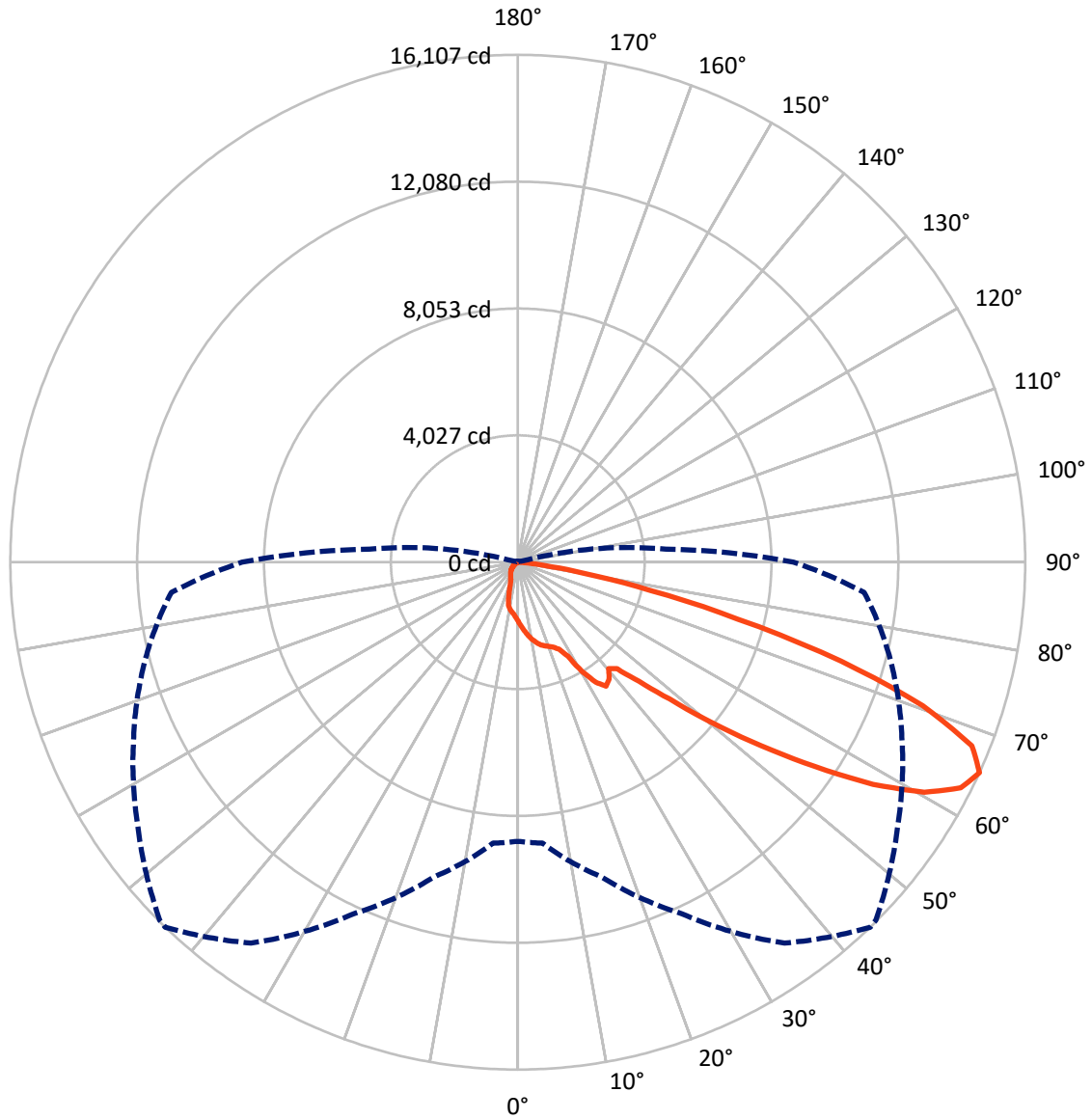
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1853.7 | 0.0 | 1853.7 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 18265.3 | 0.0 | 18265.3 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 20119.0 | 0.0 | 20119.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 186.2 | 0.9 |
| 10°-20° | 560.5 | 2.8 |
| 20°-30° | 950.4 | 4.7 |
| 30°-40° | 1580.3 | 7.9 |
| 40°-50° | 2759.2 | 13.7 |
| 50°-60° | 5390.4 | 26.8 |
| 60°-70° | 6254.1 | 31.1 |
| 70°-80° | 2277.4 | 11.3 |
| 80°-90° | 160.5 | 0.8 |
| 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° | 20119.0 | 100.0 |
| 0°-180° | 20119.0 | 100.0 |



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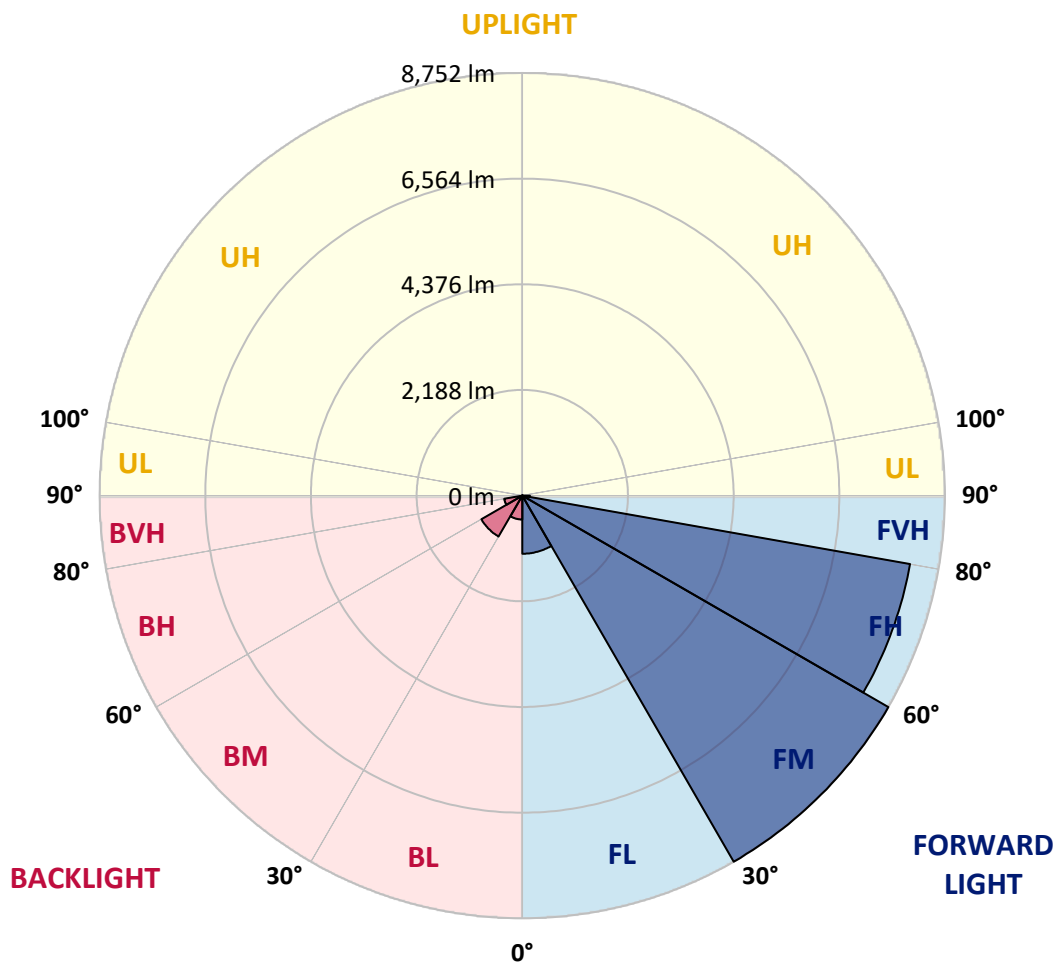
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1203.3 | 6.0 | | | |
| FM | (30°-60°) | 8751.8 | 43.5 | | | |
| FH | (60°-80°) | 8152.0 | 40.5 | | | G4/12000 |
| FVH | (80°-90°) | 158.3 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 493.9 | 2.5 | B1/500 | | |
| BM | (30°-60°) | 978.0 | 4.9 | B1/1000 | | |
| BH | (60°-80°) | 379.6 | 1.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.2 | 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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1872.5 | 1872.5 | 1872.5 | 1872.5 | 1872.5 | 1872.5 | 1872.5 | 1872.5 | 1872.5 | 1872.5 | 1872.5 |
| 2.5° | 2107.7 | 2098.5 | 2093.9 | 2069.3 | 2050.8 | 2027.8 | 2027.8 | 1998.5 | 1964.7 | 1927.8 | 1894.0 |
| 5° | 2342.9 | 2327.5 | 2307.5 | 2286.0 | 2243.0 | 2181.5 | 2181.5 | 2120.0 | 2049.3 | 1986.2 | 1917.1 |
| 7.5° | 2568.9 | 2555.1 | 2521.2 | 2479.7 | 2409.0 | 2344.4 | 2339.8 | 2250.7 | 2166.1 | 2070.8 | 1972.4 |
| 10° | 2767.2 | 2756.4 | 2727.2 | 2647.3 | 2573.5 | 2489.0 | 2487.4 | 2387.5 | 2289.1 | 2172.3 | 2050.8 |
| 12.5° | 2905.6 | 2907.1 | 2868.7 | 2791.8 | 2696.5 | 2616.6 | 2610.4 | 2512.0 | 2409.0 | 2282.9 | 2133.8 |
| 15° | 3004.0 | 3004.0 | 2964.0 | 2877.9 | 2791.8 | 2721.1 | 2714.9 | 2628.8 | 2522.8 | 2386.0 | 2224.5 |
| 17.5° | 3031.6 | 3040.9 | 2997.8 | 2920.9 | 2851.8 | 2790.3 | 2788.7 | 2716.5 | 2631.9 | 2499.7 | 2316.8 |
| 20° | 3020.9 | 3030.1 | 2996.3 | 2936.3 | 2888.7 | 2853.3 | 2848.7 | 2819.5 | 2741.1 | 2616.6 | 2415.2 |
| 22.5° | 2997.8 | 3007.0 | 2982.4 | 2947.1 | 2924.0 | 2934.8 | 2927.1 | 2951.7 | 2910.2 | 2759.5 | 2532.0 |
| 25° | 3002.4 | 3011.6 | 2993.2 | 2973.2 | 2993.2 | 3059.3 | 3079.3 | 3185.4 | 3148.5 | 2940.9 | 2658.1 |
| 27.5° | 3146.9 | 3165.4 | 3139.2 | 3148.5 | 3219.2 | 3372.9 | 3411.4 | 3594.3 | 3431.3 | 3171.5 | 2854.8 |
| 30° | 3468.2 | 3455.9 | 3406.7 | 3451.3 | 3697.3 | 4023.2 | 4012.5 | 3983.2 | 3728.0 | 3437.5 | 3088.5 |
| 32.5° | 3760.3 | 3749.6 | 3746.5 | 3938.7 | 4384.5 | 4542.8 | 4535.2 | 4252.3 | 3994.0 | 3741.9 | 3319.1 |
| 35° | 3878.7 | 3837.2 | 3828.0 | 4293.8 | 5039.4 | 4830.3 | 4782.7 | 4363.0 | 4316.8 | 4073.9 | 3554.3 |
| 37.5° | 4235.4 | 4206.2 | 4063.2 | 4352.2 | 4778.0 | 4708.9 | 4672.0 | 4553.6 | 4661.2 | 4367.6 | 3820.3 |
| 40° | 4970.2 | 4888.7 | 4759.6 | 4476.7 | 4407.6 | 4436.8 | 4473.7 | 4798.0 | 5068.6 | 4768.8 | 4175.4 |
| 42.5° | 5883.4 | 5864.9 | 5625.1 | 5097.8 | 4579.7 | 4619.7 | 4667.4 | 5308.4 | 5654.3 | 5373.0 | 4755.0 |
| 45° | 6979.5 | 7005.7 | 6659.8 | 6037.1 | 5357.6 | 5391.4 | 5460.6 | 6061.7 | 6447.6 | 6312.3 | 5666.6 |
| 47.5° | 7975.7 | 7955.7 | 7838.9 | 7191.7 | 6564.4 | 6489.1 | 6601.3 | 7028.7 | 7545.3 | 7566.8 | 6798.1 |
| 50° | 8978.1 | 9084.1 | 8910.4 | 8656.8 | 8190.9 | 8032.6 | 7991.1 | 8200.2 | 8987.3 | 8884.3 | 8157.1 |
| 52.5° | 10418.5 | 10473.9 | 10148.0 | 10083.4 | 10189.5 | 9676.0 | 9634.5 | 9685.2 | 10389.3 | 10035.7 | 9174.8 |
| 55° | 11324.0 | 11291.8 | 11170.3 | 11674.6 | 12094.2 | 11453.2 | 11400.9 | 11196.4 | 11553.1 | 10849.0 | 10154.1 |
| 57.5° | 11610.0 | 11656.1 | 11939.0 | 12850.6 | 13843.7 | 13299.5 | 13204.2 | 12623.1 | 12392.5 | 11606.9 | 11055.0 |
| 60° | 11482.4 | 11566.9 | 12177.3 | 13533.2 | 14910.7 | 14829.2 | 14747.7 | 13771.5 | 12995.1 | 12240.3 | 11686.9 |
| 62.5° | 10573.8 | 10692.2 | 11668.4 | 13411.7 | 15271.9 | 15780.8 | 15679.3 | 14487.9 | 13396.4 | 12547.8 | 11797.5 |
| 65° | 8861.2 | 8948.9 | 10350.9 | 12309.5 | 14758.5 | 16106.7 | 16069.8 | 14712.3 | 13459.4 | 12266.4 | 11039.6 |
| 67.5° | 6316.9 | 6615.2 | 7914.2 | 10374.0 | 13239.6 | 15550.2 | 15613.2 | 14443.3 | 12867.5 | 11050.4 | 9142.6 |
| 70° | 3970.9 | 4173.9 | 5105.5 | 7426.9 | 10613.8 | 13642.3 | 13849.9 | 13211.9 | 11167.2 | 8613.7 | 6120.1 |
| 72.5° | 1894.0 | 2044.7 | 2708.8 | 4701.2 | 7491.5 | 10733.7 | 10898.2 | 10845.9 | 8635.2 | 5426.8 | 3157.7 |
| 75° | 844.0 | 900.9 | 1292.9 | 2399.8 | 4836.5 | 7214.7 | 7640.6 | 7711.3 | 5396.1 | 2655.0 | 1228.3 |
| 77.5° | 430.5 | 432.0 | 605.7 | 1162.2 | 2415.2 | 4304.5 | 4389.1 | 4636.6 | 2925.6 | 1169.9 | 427.4 |
| 80° | 229.1 | 244.4 | 321.3 | 548.8 | 1252.9 | 2120.0 | 2109.2 | 2318.3 | 1297.5 | 573.4 | 143.0 |
| 82.5° | 103.0 | 113.8 | 181.4 | 287.5 | 611.9 | 804.0 | 867.1 | 948.5 | 556.5 | 365.9 | 63.0 |
| 85° | 30.7 | 36.9 | 89.2 | 144.5 | 221.4 | 232.1 | 259.8 | 335.1 | 315.2 | 259.8 | 32.3 |
| 87.5° | 4.6 | 4.6 | 36.9 | 40.0 | 32.3 | 41.5 | 43.0 | 47.7 | 101.5 | 95.3 | 16.9 |
| 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-SA4C-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1872.5 | 1872.5 | 1872.5 | 1872.5 | 1872.5 | 1872.5 | 1872.5 | 1872.5 | 1872.5 | 1872.5 | 1872.5 |
| 2.5° | 1875.6 | 1864.8 | 1826.4 | 1794.1 | 1766.4 | 1749.5 | 1729.5 | 1717.2 | 1711.1 | 1706.4 | 1708.0 |
| 5° | 1883.2 | 1857.1 | 1791.0 | 1738.7 | 1698.8 | 1655.7 | 1626.5 | 1609.6 | 1601.9 | 1589.6 | 1589.6 |
| 7.5° | 1926.3 | 1884.8 | 1792.5 | 1712.6 | 1643.4 | 1585.0 | 1529.7 | 1509.7 | 1495.8 | 1492.8 | 1489.7 |
| 10° | 1987.8 | 1935.5 | 1809.4 | 1698.8 | 1600.4 | 1520.4 | 1442.0 | 1372.8 | 1319.0 | 1286.8 | 1282.1 |
| 12.5° | 2064.6 | 1989.3 | 1835.6 | 1689.5 | 1563.5 | 1422.0 | 1214.5 | 1074.6 | 980.8 | 951.6 | 956.2 |
| 15° | 2135.4 | 2053.9 | 1861.7 | 1681.8 | 1495.8 | 1179.1 | 943.9 | 784.0 | 736.4 | 731.8 | 733.3 |
| 17.5° | 2219.9 | 2123.1 | 1892.5 | 1671.1 | 1309.8 | 900.9 | 701.0 | 658.0 | 667.2 | 682.6 | 681.0 |
| 20° | 2307.5 | 2196.9 | 1929.4 | 1606.5 | 1045.4 | 678.0 | 619.5 | 624.2 | 638.0 | 651.8 | 654.9 |
| 22.5° | 2401.3 | 2281.4 | 1972.4 | 1451.2 | 797.9 | 590.3 | 587.3 | 593.4 | 607.2 | 622.6 | 625.7 |
| 25° | 2530.5 | 2387.5 | 2004.7 | 1248.3 | 604.2 | 545.8 | 551.9 | 562.7 | 575.0 | 591.9 | 595.0 |
| 27.5° | 2696.5 | 2530.5 | 2021.6 | 983.9 | 522.7 | 505.8 | 507.3 | 522.7 | 538.1 | 553.4 | 553.4 |
| 30° | 2911.7 | 2701.1 | 1987.8 | 744.1 | 482.7 | 467.4 | 461.2 | 470.4 | 490.4 | 505.8 | 507.3 |
| 32.5° | 3103.9 | 2862.5 | 1898.6 | 568.8 | 453.5 | 432.0 | 416.6 | 418.2 | 425.8 | 435.1 | 436.6 |
| 35° | 3296.1 | 3019.3 | 1746.4 | 478.1 | 422.8 | 398.2 | 375.1 | 362.8 | 356.7 | 352.1 | 356.7 |
| 37.5° | 3542.0 | 3214.6 | 1543.5 | 435.1 | 396.6 | 365.9 | 333.6 | 307.5 | 285.9 | 272.1 | 275.2 |
| 40° | 3858.7 | 3485.1 | 1303.7 | 407.4 | 372.0 | 335.1 | 292.1 | 258.3 | 221.4 | 209.1 | 202.9 |
| 42.5° | 4381.4 | 3895.6 | 1051.5 | 384.3 | 347.4 | 302.9 | 249.0 | 202.9 | 169.1 | 156.8 | 159.9 |
| 45° | 5207.0 | 4413.7 | 810.2 | 359.7 | 322.8 | 267.5 | 209.1 | 159.9 | 132.2 | 126.1 | 129.1 |
| 47.5° | 6301.6 | 5084.0 | 624.2 | 332.1 | 292.1 | 229.1 | 164.5 | 126.1 | 109.2 | 107.6 | 106.1 |
| 50° | 7331.6 | 5708.1 | 521.2 | 301.3 | 255.2 | 190.6 | 135.3 | 106.1 | 95.3 | 93.8 | 93.8 |
| 52.5° | 8263.2 | 6155.5 | 424.3 | 266.0 | 215.2 | 156.8 | 113.8 | 93.8 | 84.6 | 79.9 | 79.9 |
| 55° | 9091.8 | 6447.6 | 344.4 | 222.9 | 169.1 | 124.5 | 98.4 | 84.6 | 73.8 | 67.6 | 66.1 |
| 57.5° | 9717.5 | 6483.0 | 258.3 | 178.3 | 126.1 | 96.9 | 84.6 | 73.8 | 61.5 | 53.8 | 50.7 |
| 60° | 9985.0 | 6177.0 | 190.6 | 135.3 | 93.8 | 76.9 | 67.6 | 60.0 | 46.1 | 38.4 | 36.9 |
| 62.5° | 9716.0 | 5582.1 | 141.4 | 103.0 | 72.3 | 56.9 | 47.7 | 44.6 | 32.3 | 23.1 | 21.5 |
| 65° | 8752.1 | 4722.7 | 112.2 | 78.4 | 53.8 | 41.5 | 30.7 | 29.2 | 20.0 | 10.8 | 9.2 |
| 67.5° | 7011.8 | 3698.8 | 89.2 | 58.4 | 38.4 | 27.7 | 20.0 | 18.4 | 10.8 | 3.1 | 3.1 |
| 70° | 4559.7 | 2364.4 | 72.3 | 43.0 | 24.6 | 18.4 | 12.3 | 9.2 | 6.1 | 1.5 | 0.0 |
| 72.5° | 2255.3 | 1105.3 | 58.4 | 33.8 | 16.9 | 9.2 | 4.6 | 3.1 | 4.6 | 0.0 | 0.0 |
| 75° | 874.7 | 393.6 | 43.0 | 23.1 | 9.2 | 4.6 | 3.1 | 0.0 | 1.5 | 0.0 | 0.0 |
| 77.5° | 290.6 | 130.7 | 26.1 | 12.3 | 6.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 107.6 | 50.7 | 13.8 | 7.7 | 3.1 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 43.0 | 20.0 | 9.2 | 6.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 21.5 | 12.3 | 6.1 | 4.6 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 15.4 | 9.2 | 6.1 | 4.6 | 3.1 | 1.5 | 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 |

(END OF REPORT)