

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: P451649

Luminaire Tested: **GLAN-SA2C-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2C-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14013 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

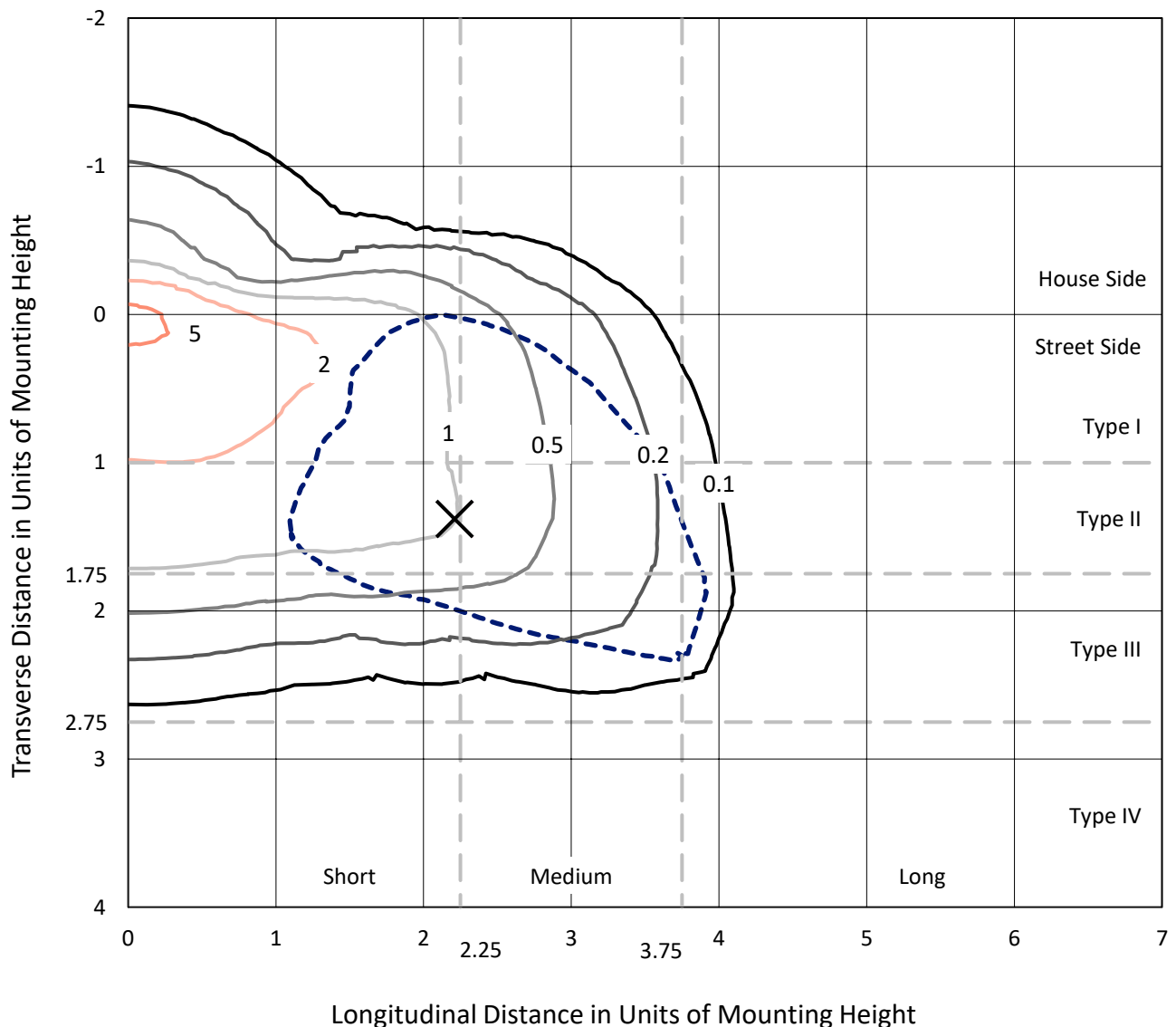
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

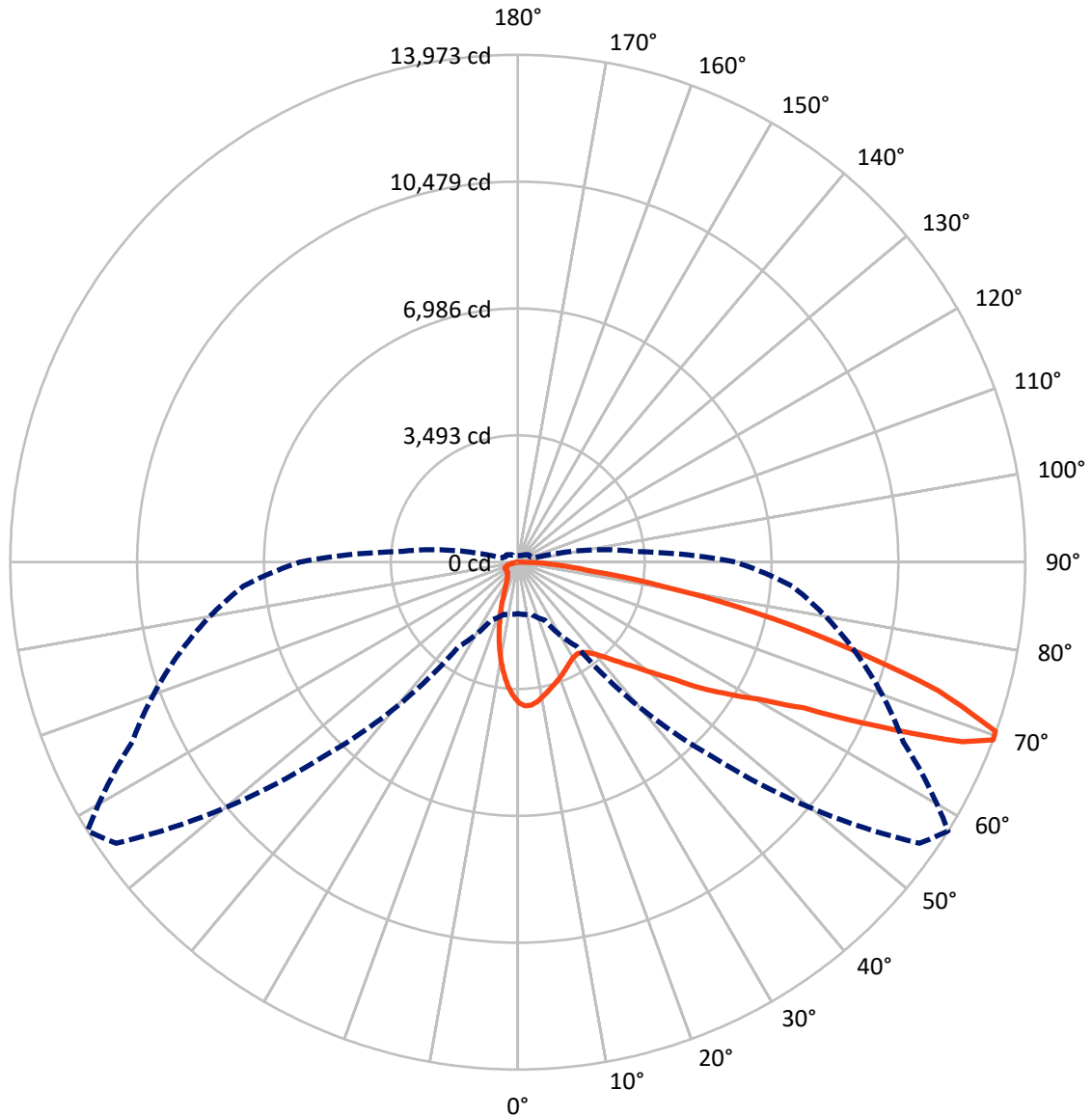
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2053.6 | 0.0 | 2053.6 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 11959.4 | 0.0 | 11959.4 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 14013.0 | 0.0 | 14013.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 328.9 | 2.3 |
| 10°-20° | 722.1 | 5.2 |
| 20°-30° | 933.0 | 6.7 |
| 30°-40° | 1211.8 | 8.6 |
| 40°-50° | 1761.7 | 12.6 |
| 50°-60° | 2811.1 | 20.1 |
| 60°-70° | 3755.3 | 26.8 |
| 70°-80° | 2164.8 | 15.4 |
| 80°-90° | 324.2 | 2.3 |
| 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° | 14013.0 | 100.0 |
| 0°-180° | 14013.0 | 100.0 |

Coefficient of Utilization



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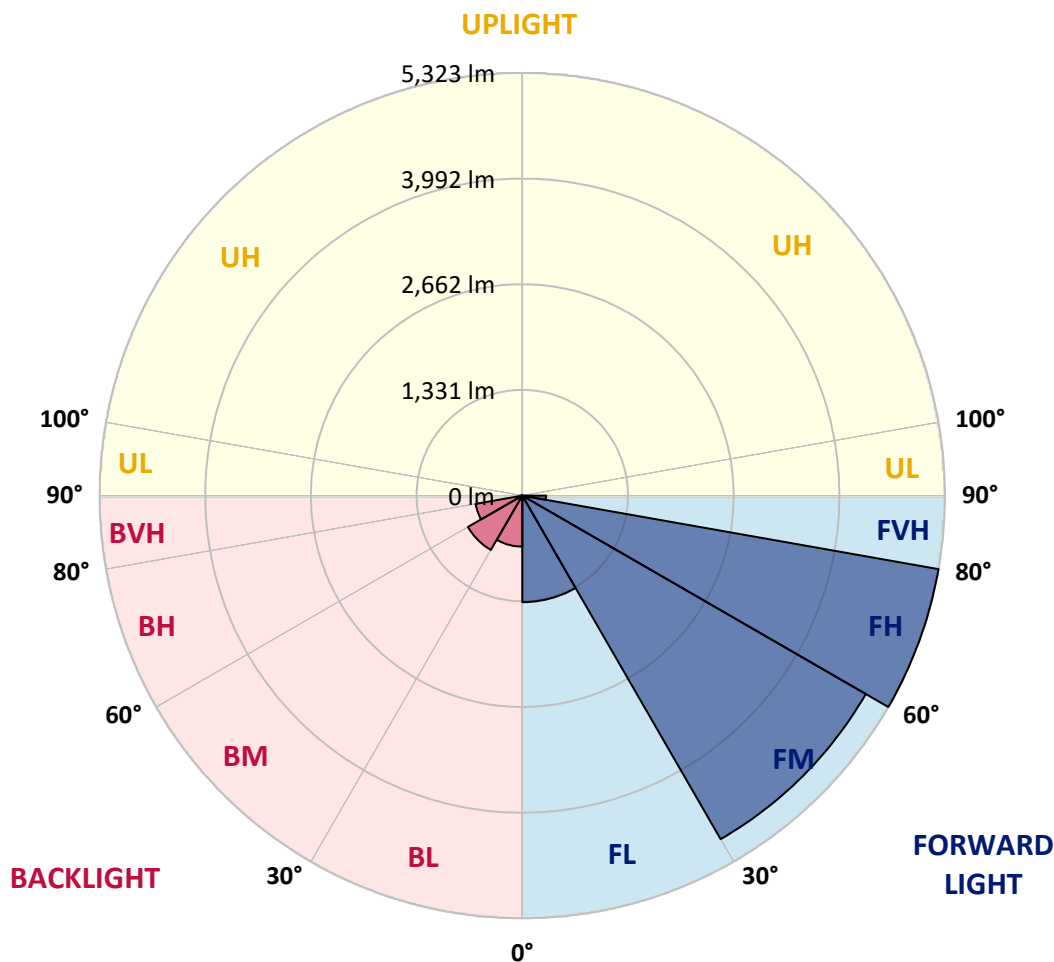
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1342.1 | 9.6 | | | |
| FM | (30°-60°) | 4994.9 | 35.6 | | | |
| FH | (60°-80°) | 5323.0 | 38.0 | | | G3/7500 |
| FVH | (80°-90°) | 299.4 | 2.1 | | | G3/500 |
| BL | (0°-30°) | 641.9 | 4.6 | B2/1000 | | |
| BM | (30°-60°) | 789.7 | 5.6 | B1/1000 | | |
| BH | (60°-80°) | 597.1 | 4.3 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 24.8 | 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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0° | 3872.4 | 3872.4 | 3872.4 | 3872.4 | 3872.4 | 3872.4 | 3872.4 | 3872.4 | 3872.4 | 3872.4 | 3872.4 |
| 2.5° | 4016.2 | 4027.1 | 4024.0 | 4020.1 | 4013.8 | 3996.6 | 3968.5 | 3963.8 | 3945.8 | 3907.5 | 3859.9 |
| 5° | 3954.4 | 3963.8 | 3964.6 | 3970.1 | 3977.9 | 3974.8 | 3954.4 | 3952.1 | 3925.5 | 3873.9 | 3794.2 |
| 7.5° | 3742.6 | 3755.1 | 3782.5 | 3813.0 | 3840.3 | 3866.1 | 3872.4 | 3876.3 | 3859.9 | 3800.5 | 3694.2 |
| 10° | 3504.3 | 3516.8 | 3529.3 | 3574.6 | 3641.8 | 3705.9 | 3759.1 | 3766.1 | 3770.0 | 3715.3 | 3585.6 |
| 12.5° | 3240.1 | 3265.9 | 3292.5 | 3359.7 | 3449.6 | 3550.4 | 3644.2 | 3659.0 | 3685.6 | 3644.2 | 3491.8 |
| 15° | 3015.8 | 3042.4 | 3080.7 | 3140.9 | 3249.5 | 3394.9 | 3526.9 | 3551.2 | 3603.5 | 3582.4 | 3404.2 |
| 17.5° | 2860.3 | 2869.7 | 2896.3 | 2965.0 | 3082.3 | 3235.4 | 3412.1 | 3460.5 | 3544.1 | 3538.7 | 3329.2 |
| 20° | 2737.6 | 2749.3 | 2765.8 | 2808.0 | 2929.9 | 3091.6 | 3305.0 | 3367.5 | 3480.8 | 3499.6 | 3255.0 |
| 22.5° | 2686.0 | 2694.6 | 2692.3 | 2715.0 | 2797.8 | 2960.4 | 3196.4 | 3270.6 | 3424.6 | 3473.0 | 3186.2 |
| 25° | 2689.2 | 2697.0 | 2685.3 | 2679.8 | 2729.0 | 2844.7 | 3083.0 | 3177.6 | 3379.2 | 3455.0 | 3123.7 |
| 27.5° | 2741.5 | 2747.0 | 2725.1 | 2703.2 | 2707.1 | 2772.8 | 2989.3 | 3094.0 | 3340.9 | 3462.9 | 3071.3 |
| 30° | 2811.9 | 2822.0 | 2808.0 | 2781.4 | 2752.5 | 2755.6 | 2929.1 | 3032.3 | 3323.0 | 3490.2 | 3046.3 |
| 32.5° | 2902.5 | 2911.9 | 2905.6 | 2884.5 | 2847.0 | 2805.6 | 2914.2 | 3009.6 | 3324.5 | 3545.7 | 3040.8 |
| 35° | 2997.9 | 3016.6 | 3026.8 | 3025.2 | 2994.7 | 2922.8 | 2972.9 | 3051.8 | 3362.0 | 3638.7 | 3072.9 |
| 37.5° | 3105.7 | 3121.3 | 3165.1 | 3193.2 | 3165.1 | 3081.5 | 3104.9 | 3159.6 | 3444.9 | 3773.1 | 3143.2 |
| 40° | 3210.4 | 3233.9 | 3298.0 | 3385.5 | 3374.6 | 3301.1 | 3306.6 | 3342.5 | 3591.0 | 3973.2 | 3280.8 |
| 42.5° | 3319.8 | 3348.0 | 3459.7 | 3589.5 | 3615.3 | 3558.2 | 3573.1 | 3605.1 | 3798.9 | 4250.6 | 3516.8 |
| 45° | 3460.5 | 3494.1 | 3631.7 | 3793.4 | 3895.0 | 3859.9 | 3902.1 | 3917.7 | 4077.1 | 4611.7 | 3827.8 |
| 47.5° | 3641.8 | 3680.9 | 3850.5 | 4052.1 | 4195.9 | 4228.0 | 4301.4 | 4292.0 | 4421.8 | 5039.2 | 4231.1 |
| 50° | 3947.4 | 3969.3 | 4129.5 | 4335.0 | 4532.7 | 4677.3 | 4757.0 | 4771.9 | 4849.3 | 5454.9 | 4682.0 |
| 52.5° | 4310.8 | 4330.3 | 4446.0 | 4625.7 | 4873.5 | 5179.8 | 5376.8 | 5328.3 | 5347.1 | 5961.3 | 5209.5 |
| 55° | 4719.5 | 4752.4 | 4825.8 | 4945.4 | 5266.6 | 5717.5 | 6113.0 | 6124.7 | 5916.8 | 6445.9 | 5715.2 |
| 57.5° | 5036.0 | 5091.5 | 5217.3 | 5387.7 | 5794.9 | 6315.4 | 6846.8 | 6854.6 | 6588.9 | 6963.2 | 6273.2 |
| 60° | 4876.6 | 4942.3 | 5229.9 | 5644.8 | 6488.1 | 7358.7 | 7723.6 | 7679.1 | 7243.0 | 7552.5 | 6953.9 |
| 62.5° | 4188.9 | 4200.6 | 4618.7 | 5267.4 | 6701.4 | 8754.5 | 9028.8 | 8840.4 | 8116.0 | 8299.6 | 7645.5 |
| 65° | 2711.1 | 2787.6 | 3119.0 | 4027.9 | 6000.4 | 9528.9 | 11315.5 | 10880.2 | 9339.8 | 9147.6 | 8224.6 |
| 67.5° | 1711.5 | 1692.0 | 1829.5 | 2300.0 | 4127.1 | 8846.7 | 13266.9 | 13198.1 | 10940.3 | 9682.9 | 8086.3 |
| 69° | 1419.2 | 1441.1 | 1488.0 | 1763.1 | 2840.0 | 7553.3 | 13497.4 | 13972.6 | 11716.4 | 9640.7 | 7583.8 |
| 70° | 1287.1 | 1297.3 | 1346.5 | 1563.0 | 2191.3 | 6326.3 | 13119.2 | 13951.5 | 12021.2 | 9464.1 | 7219.6 |
| 72.5° | 1021.4 | 1020.6 | 1105.1 | 1300.4 | 1638.0 | 3611.3 | 10772.3 | 12112.6 | 11680.4 | 8641.9 | 5965.3 |
| 75° | 776.0 | 788.5 | 881.5 | 1100.4 | 1509.1 | 1973.3 | 7517.3 | 9328.1 | 9328.9 | 6825.7 | 3722.3 |
| 77.5° | 559.6 | 567.4 | 676.0 | 923.7 | 1421.6 | 1599.7 | 5007.1 | 6690.5 | 6289.6 | 3127.6 | 1169.9 |
| 80° | 366.5 | 371.2 | 454.1 | 731.5 | 1281.7 | 1509.1 | 2968.9 | 4095.1 | 2966.6 | 830.0 | 386.8 |
| 82.5° | 200.8 | 224.3 | 277.4 | 473.6 | 1028.5 | 1394.2 | 1804.5 | 2072.6 | 1112.9 | 369.7 | 201.6 |
| 85° | 100.8 | 107.1 | 156.3 | 276.7 | 672.1 | 1153.5 | 1256.7 | 1188.7 | 574.4 | 183.7 | 104.7 |
| 87.5° | 29.7 | 37.5 | 64.9 | 107.1 | 272.7 | 601.0 | 699.4 | 627.6 | 221.2 | 66.4 | 21.9 |
| 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-SA2C-740-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3872.4 | 3872.4 | 3872.4 | 3872.4 | 3872.4 | 3872.4 | 3872.4 | 3872.4 | 3872.4 | 3872.4 | 3872.4 |
| 2.5° | 3840.3 | 3826.3 | 3763.7 | 3707.5 | 3655.9 | 3601.2 | 3555.1 | 3514.4 | 3518.3 | 3519.1 | 3477.7 |
| 5° | 3752.8 | 3720.8 | 3602.0 | 3491.0 | 3397.2 | 3278.4 | 3176.8 | 3111.2 | 3078.4 | 3034.6 | 3050.2 |
| 7.5° | 3634.0 | 3572.3 | 3407.4 | 3222.9 | 3050.2 | 2896.3 | 2729.0 | 2614.1 | 2540.7 | 2469.6 | 2478.9 |
| 10° | 3511.3 | 3412.1 | 3172.1 | 2928.3 | 2704.8 | 2458.6 | 2245.3 | 2062.4 | 1926.4 | 1875.6 | 1842.0 |
| 12.5° | 3385.5 | 3255.0 | 2950.2 | 2625.9 | 2317.2 | 2022.5 | 1720.1 | 1523.9 | 1373.9 | 1294.2 | 1304.3 |
| 15° | 3270.6 | 3112.0 | 2718.9 | 2323.4 | 1922.5 | 1571.6 | 1270.0 | 1083.2 | 978.4 | 956.6 | 969.1 |
| 17.5° | 3164.3 | 2956.4 | 2502.4 | 2029.6 | 1561.5 | 1178.5 | 954.2 | 848.7 | 806.5 | 794.8 | 794.0 |
| 20° | 3054.9 | 2824.4 | 2259.3 | 1715.4 | 1216.8 | 913.6 | 783.1 | 733.8 | 726.0 | 730.7 | 731.5 |
| 22.5° | 2943.9 | 2661.0 | 2009.3 | 1403.6 | 969.1 | 747.1 | 684.6 | 671.3 | 677.6 | 688.5 | 690.1 |
| 25° | 2841.6 | 2517.2 | 1768.6 | 1130.1 | 773.7 | 656.5 | 626.0 | 626.0 | 640.1 | 656.5 | 657.2 |
| 27.5° | 2757.2 | 2378.1 | 1528.6 | 897.2 | 647.9 | 590.8 | 580.7 | 586.1 | 605.7 | 618.2 | 619.0 |
| 30° | 2687.6 | 2248.4 | 1302.0 | 719.0 | 569.7 | 538.5 | 536.1 | 545.5 | 559.6 | 571.3 | 572.1 |
| 32.5° | 2635.2 | 2134.3 | 1090.2 | 604.1 | 515.8 | 498.6 | 497.8 | 504.9 | 512.7 | 515.8 | 518.9 |
| 35° | 2614.9 | 2039.7 | 896.4 | 531.4 | 479.8 | 468.9 | 468.9 | 468.1 | 471.2 | 472.8 | 474.4 |
| 37.5° | 2631.3 | 1967.1 | 746.3 | 484.5 | 453.3 | 445.5 | 440.8 | 436.1 | 434.5 | 434.5 | 435.3 |
| 40° | 2700.9 | 1928.8 | 634.6 | 454.1 | 434.5 | 422.8 | 414.2 | 408.7 | 403.3 | 404.8 | 406.4 |
| 42.5° | 2848.6 | 1935.8 | 558.8 | 433.7 | 418.1 | 401.7 | 389.2 | 382.9 | 379.0 | 383.7 | 382.9 |
| 45° | 3083.8 | 2006.1 | 510.3 | 419.7 | 401.7 | 380.6 | 368.9 | 362.6 | 362.6 | 369.7 | 372.0 |
| 47.5° | 3412.8 | 2140.6 | 484.5 | 408.7 | 389.2 | 364.2 | 352.5 | 347.8 | 349.3 | 361.1 | 361.8 |
| 50° | 3814.5 | 2374.2 | 479.8 | 403.3 | 382.9 | 352.5 | 339.2 | 334.5 | 338.4 | 350.9 | 352.5 |
| 52.5° | 4257.7 | 2675.1 | 502.5 | 404.0 | 377.5 | 345.4 | 328.2 | 321.2 | 325.1 | 335.3 | 338.4 |
| 55° | 4782.8 | 3051.8 | 561.1 | 407.2 | 369.7 | 341.5 | 320.4 | 304.8 | 309.5 | 316.5 | 317.3 |
| 57.5° | 5318.9 | 3526.9 | 664.3 | 407.9 | 363.4 | 334.5 | 307.1 | 286.8 | 286.8 | 291.5 | 293.8 |
| 60° | 5973.8 | 4044.3 | 800.3 | 408.7 | 364.2 | 324.3 | 289.2 | 266.5 | 263.4 | 265.7 | 266.5 |
| 62.5° | 6624.1 | 4477.3 | 822.9 | 406.4 | 372.0 | 314.2 | 269.6 | 246.2 | 240.7 | 239.9 | 238.4 |
| 65° | 6910.9 | 4396.8 | 674.4 | 395.4 | 380.6 | 307.9 | 254.0 | 226.6 | 217.3 | 214.1 | 214.1 |
| 67.5° | 6443.5 | 3719.2 | 507.2 | 380.6 | 375.1 | 301.7 | 239.1 | 210.2 | 199.3 | 193.0 | 193.0 |
| 69° | 6004.3 | 3308.1 | 455.6 | 370.4 | 361.1 | 291.5 | 229.8 | 201.6 | 188.3 | 181.3 | 179.0 |
| 70° | 5665.2 | 3025.2 | 433.7 | 361.8 | 347.8 | 279.8 | 222.7 | 195.4 | 180.5 | 172.7 | 171.2 |
| 72.5° | 4521.0 | 2373.4 | 379.8 | 329.0 | 296.2 | 235.2 | 197.7 | 175.8 | 161.8 | 153.2 | 150.8 |
| 75° | 2605.5 | 1286.4 | 314.9 | 286.0 | 238.4 | 182.9 | 167.2 | 153.2 | 142.2 | 134.4 | 132.1 |
| 77.5° | 801.8 | 497.0 | 228.2 | 225.9 | 175.1 | 141.5 | 133.6 | 128.2 | 120.4 | 111.8 | 110.2 |
| 80° | 337.6 | 253.2 | 154.7 | 152.4 | 116.4 | 98.5 | 96.1 | 95.3 | 92.2 | 85.2 | 82.8 |
| 82.5° | 185.2 | 143.0 | 107.8 | 93.8 | 70.3 | 57.1 | 59.4 | 60.2 | 57.8 | 50.8 | 46.1 |
| 85° | 90.7 | 78.2 | 52.4 | 42.2 | 32.0 | 20.3 | 19.5 | 23.4 | 21.9 | 15.6 | 17.2 |
| 87.5° | 18.0 | 21.9 | 14.1 | 6.3 | 3.1 | 0.0 | 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)