

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: P653899

Luminaire Tested: **GLAN-SA5A-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11713.5 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

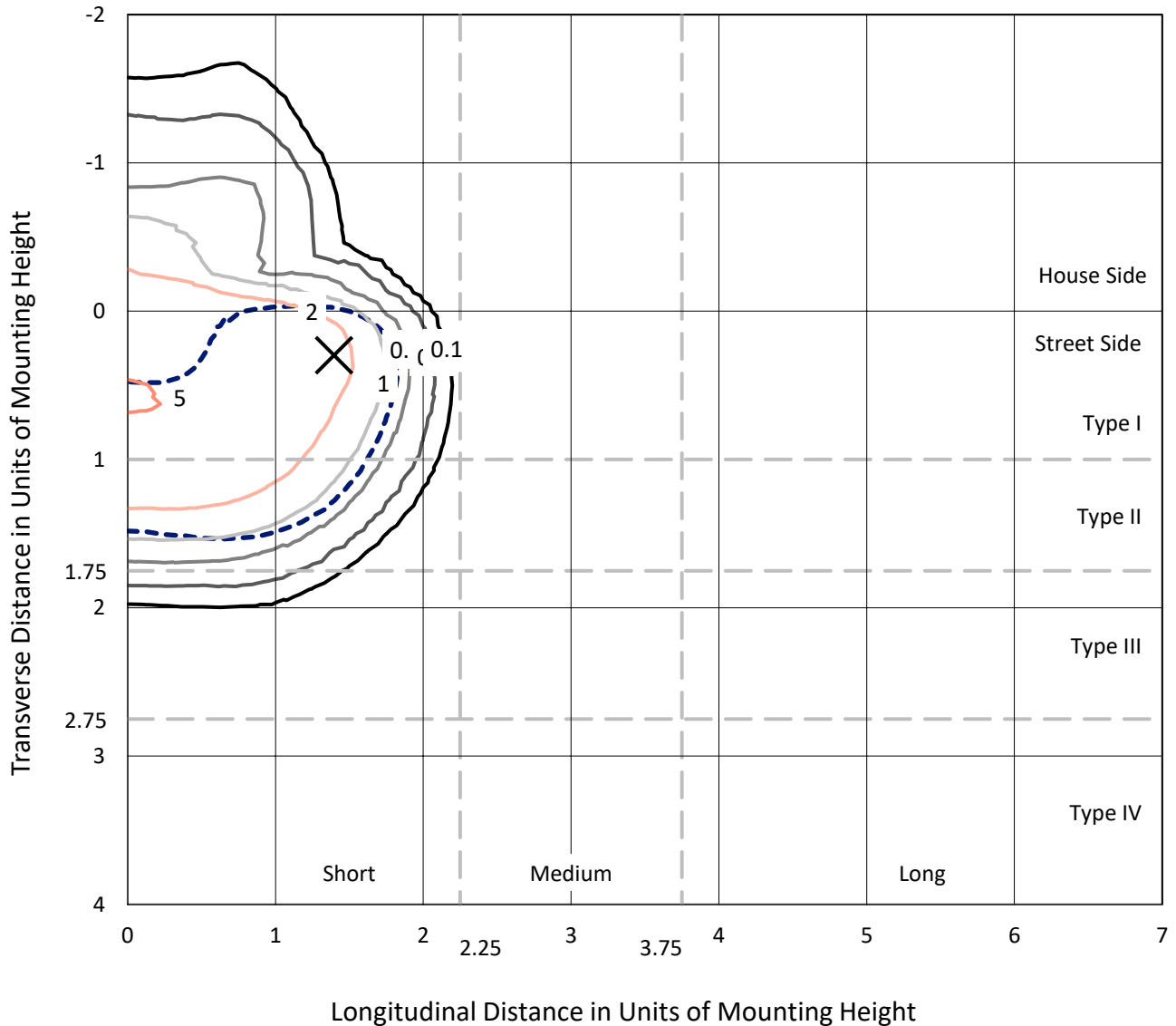
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

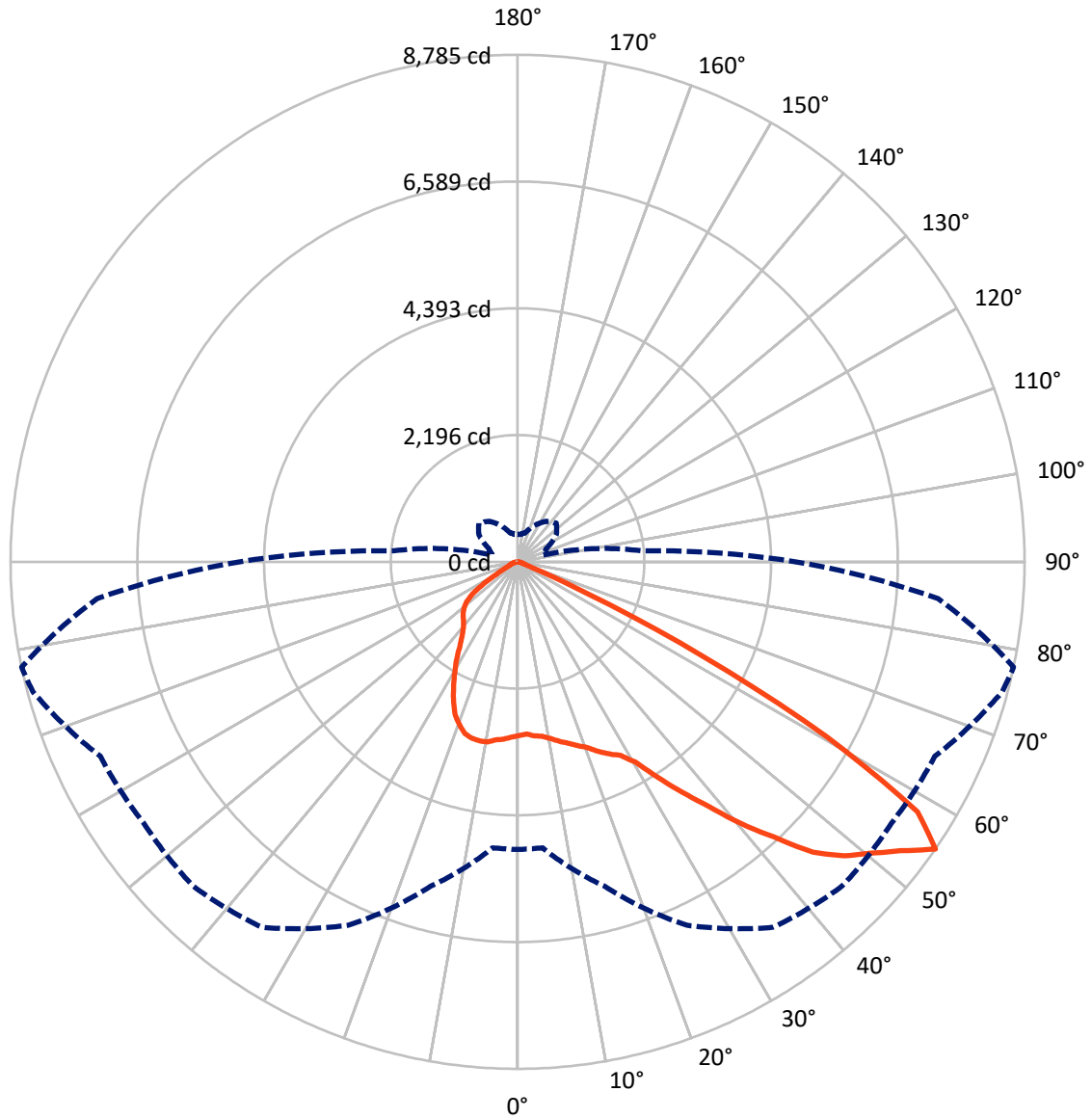
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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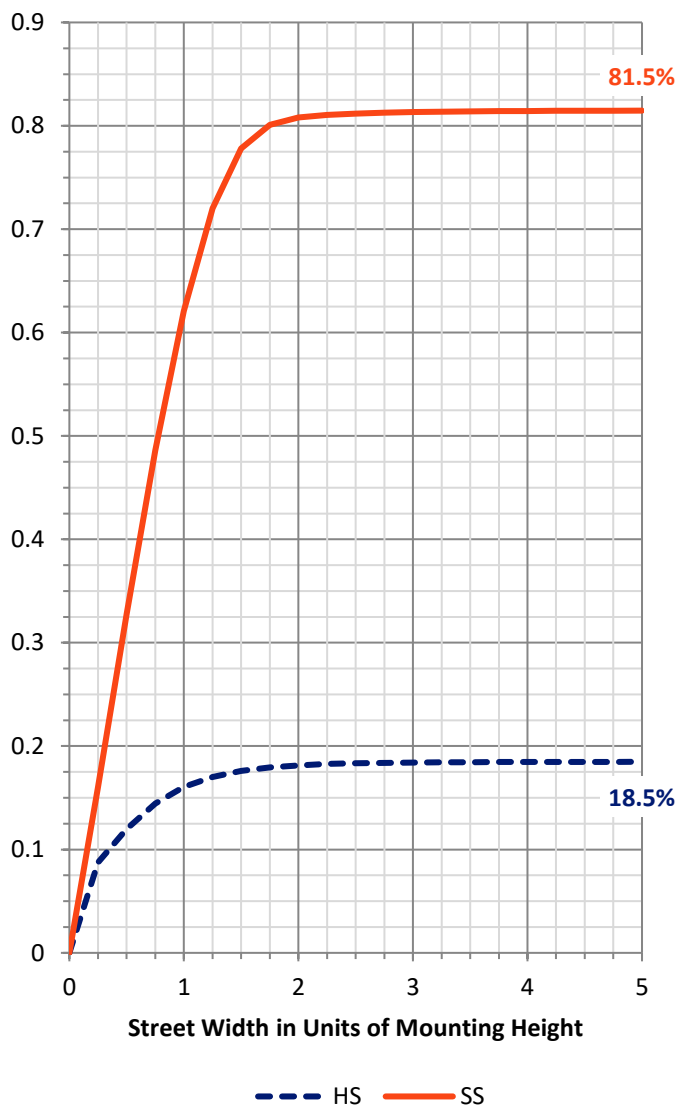
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2175.7 | 0.0 | 2175.7 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 9537.8 | 0.0 | 9537.8 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 11713.5 | 0.0 | 11713.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 268.5 | 2.3 |
| 10°-20° | 710.7 | 6.1 |
| 20°-30° | 1245.7 | 10.6 |
| 30°-40° | 2054.0 | 17.5 |
| 40°-50° | 2988.8 | 25.5 |
| 50°-60° | 3386.6 | 28.9 |
| 60°-70° | 968.3 | 8.3 |
| 70°-80° | 75.2 | 0.6 |
| 80°-90° | 15.6 | 0.1 |
| 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° | 11713.5 | 100.0 |
| 0°-180° | 11713.5 | 100.0 |

Coefficient of Utilization



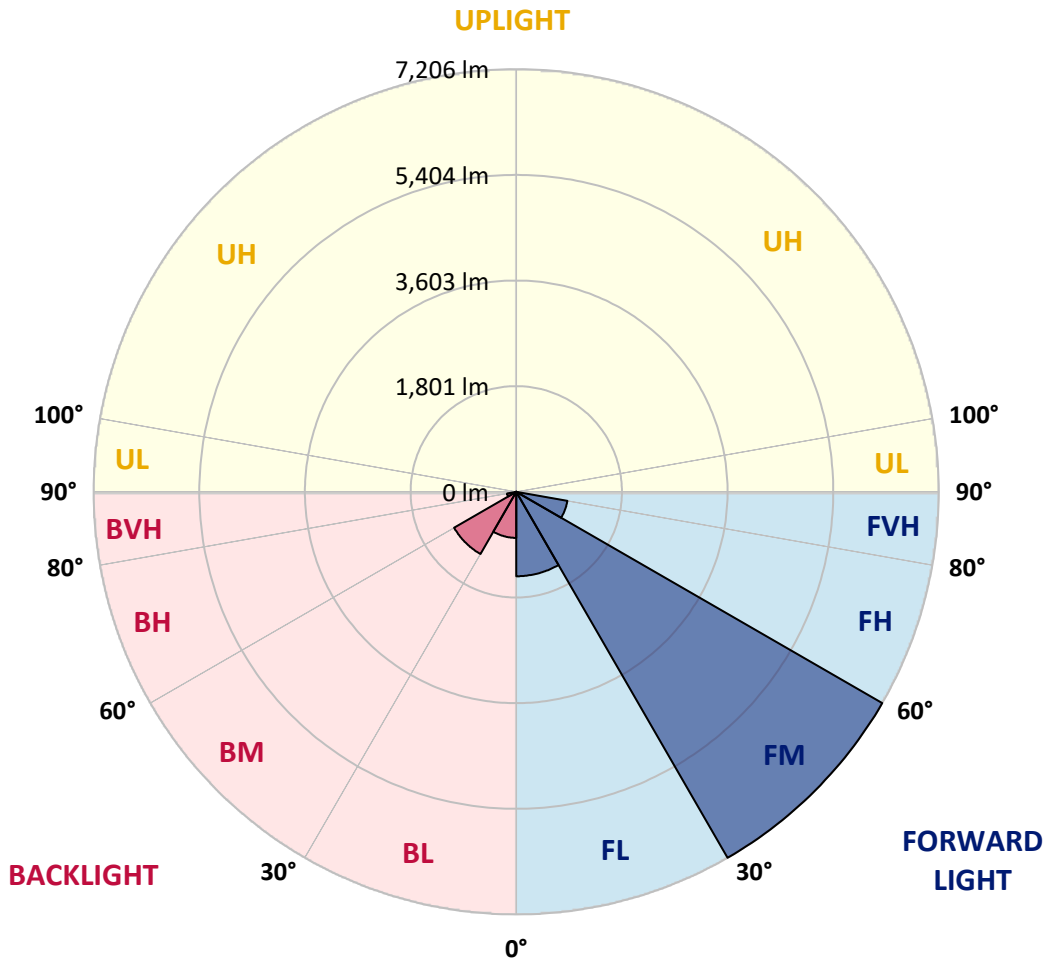
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1439.9 | 12.3 | | | |
| FM (30°-60°) | 7205.6 | 61.5 | | | |
| FH (60°-80°) | 884.7 | 7.6 | | | G1/1800 |
| FVH (80°-90°) | 7.6 | 0.1 | | | G0/10 |
| BL (0°-30°) | 785.0 | 6.7 | B2/1000 | | |
| BM (30°-60°) | 1223.8 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 158.8 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 8.0 | 0.1 | | | G0/10 |
| 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° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3011.5 | 3011.5 | 3011.5 | 3011.5 | 3011.5 | 3011.5 | 3011.5 | 3011.5 | 3011.5 | 3011.5 | 3011.5 |
| 2.5° | 2831.4 | 2858.6 | 2862.8 | 2896.3 | 2894.2 | 2950.8 | 2967.6 | 2969.7 | 3007.3 | 2988.5 | 3036.7 |
| 5° | 2751.8 | 2737.2 | 2730.9 | 2789.5 | 2806.3 | 2856.5 | 2898.4 | 2923.6 | 3001.0 | 3028.3 | 3078.6 |
| 7.5° | 2680.6 | 2680.6 | 2684.8 | 2737.2 | 2730.9 | 2795.8 | 2839.8 | 2917.3 | 3030.4 | 3053.4 | 3114.1 |
| 10° | 2611.6 | 2586.4 | 2617.8 | 2672.3 | 2718.4 | 2747.6 | 2839.8 | 2913.1 | 3045.0 | 3112.0 | 3195.8 |
| 12.5° | 2575.9 | 2588.5 | 2592.7 | 2632.5 | 2682.7 | 2770.7 | 2821.0 | 2942.4 | 3149.7 | 3189.6 | 3279.6 |
| 15° | 2800.0 | 2774.9 | 2714.2 | 2678.6 | 2720.5 | 2762.3 | 2888.0 | 3011.5 | 3204.2 | 3260.7 | 3361.3 |
| 17.5° | 3059.7 | 3038.8 | 2988.5 | 2892.2 | 2797.9 | 2875.4 | 2973.9 | 3086.9 | 3262.8 | 3346.6 | 3495.3 |
| 20° | 3399.0 | 3365.4 | 3315.2 | 3126.8 | 3045.0 | 2961.2 | 3065.9 | 3200.0 | 3359.2 | 3434.6 | 3587.5 |
| 22.5° | 3803.2 | 3803.2 | 3690.1 | 3461.8 | 3292.2 | 3212.6 | 3256.5 | 3334.1 | 3466.0 | 3568.6 | 3719.4 |
| 25° | 4224.1 | 4211.6 | 4109.0 | 3872.3 | 3585.4 | 3491.2 | 3541.4 | 3595.9 | 3631.4 | 3688.0 | 3788.5 |
| 27.5° | 4705.8 | 4632.5 | 4502.6 | 4240.8 | 3987.4 | 3805.3 | 3859.7 | 3811.6 | 3767.6 | 3796.9 | 3941.3 |
| 30° | 5032.5 | 5078.5 | 4913.1 | 4661.8 | 4423.1 | 4219.9 | 4230.4 | 4188.5 | 3987.4 | 4029.3 | 4115.2 |
| 32.5° | 5371.7 | 5401.1 | 5308.9 | 5170.7 | 4932.0 | 4695.3 | 4609.4 | 4573.9 | 4423.1 | 4441.9 | 4358.1 |
| 35° | 5654.5 | 5711.1 | 5629.3 | 5568.6 | 5499.5 | 5308.9 | 5072.2 | 5187.5 | 4944.5 | 4898.5 | 4680.7 |
| 37.5° | 5914.2 | 5897.4 | 5993.7 | 5930.9 | 5916.3 | 5782.2 | 5522.5 | 5545.6 | 5382.2 | 5371.7 | 5120.4 |
| 40° | 6146.6 | 6150.8 | 6282.8 | 6312.0 | 6253.4 | 6014.7 | 5637.7 | 5819.9 | 5951.8 | 5964.5 | 5641.9 |
| 42.5° | 6339.3 | 6395.8 | 6508.9 | 6745.6 | 6657.6 | 6259.7 | 5757.1 | 5956.0 | 6446.1 | 6523.6 | 6136.2 |
| 45° | 6506.8 | 6622.0 | 6762.3 | 6973.8 | 6923.6 | 6607.4 | 6054.4 | 6236.7 | 6973.8 | 7177.0 | 6601.1 |
| 47.5° | 6517.3 | 6668.1 | 6821.0 | 7135.1 | 7198.0 | 6793.8 | 6362.3 | 6680.7 | 7392.7 | 7612.6 | 6940.4 |
| 50° | 6475.4 | 6555.0 | 6860.8 | 7202.2 | 7344.5 | 7097.5 | 6793.8 | 7053.5 | 7799.0 | 7937.2 | 7112.1 |
| 52.5° | 5979.1 | 6039.8 | 6653.4 | 7265.0 | 7608.4 | 7440.9 | 7365.5 | 7572.8 | 8213.6 | 8316.3 | 7273.3 |
| 55° | 4984.4 | 4973.8 | 5817.9 | 6948.8 | 7729.9 | 7949.8 | 7903.7 | 7977.0 | 8693.2 | 8785.4 | 7313.2 |
| 57.5° | 3409.4 | 3600.0 | 4328.8 | 5786.4 | 6986.4 | 7830.4 | 7878.6 | 7757.1 | 8134.1 | 8169.6 | 6374.9 |
| 60° | 1838.8 | 1918.3 | 2504.8 | 3861.8 | 5319.4 | 6381.2 | 6506.8 | 6287.0 | 6257.6 | 6157.1 | 4550.8 |
| 62.5° | 730.9 | 770.7 | 1103.6 | 1912.0 | 2898.4 | 3878.5 | 4148.7 | 4058.7 | 3866.0 | 3602.1 | 2356.1 |
| 65° | 347.7 | 372.8 | 548.7 | 894.2 | 1285.9 | 1616.7 | 1887.0 | 1970.7 | 1453.4 | 1308.9 | 777.0 |
| 67.5° | 236.7 | 255.5 | 400.0 | 511.0 | 458.7 | 479.6 | 624.1 | 580.1 | 341.4 | 291.1 | 215.7 |
| 70° | 180.1 | 192.7 | 320.4 | 347.7 | 205.2 | 144.5 | 161.2 | 150.8 | 140.3 | 142.4 | 140.3 |
| 72.5° | 127.7 | 138.3 | 234.6 | 205.2 | 90.1 | 67.0 | 85.9 | 102.6 | 102.6 | 102.6 | 100.5 |
| 75° | 77.5 | 88.0 | 136.2 | 79.6 | 35.6 | 35.6 | 54.4 | 69.1 | 73.3 | 75.4 | 71.2 |
| 77.5° | 39.8 | 50.3 | 46.1 | 23.0 | 23.0 | 27.2 | 39.8 | 48.2 | 52.4 | 52.4 | 50.3 |
| 80° | 8.4 | 8.4 | 8.4 | 12.5 | 23.0 | 29.4 | 39.8 | 44.0 | 50.3 | 50.3 | 46.1 |
| 82.5° | 0.0 | 2.1 | 6.3 | 12.5 | 20.9 | 27.2 | 37.7 | 44.0 | 50.3 | 52.4 | 48.2 |
| 85° | 0.0 | 2.1 | 4.2 | 8.4 | 14.6 | 16.7 | 14.6 | 12.5 | 12.5 | 12.5 | 12.5 |
| 87.5° | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 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 |



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CATALOG NUMBER: GLAN-SA5A-840-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3011.5 | 3011.5 | 3011.5 | 3011.5 | 3011.5 | 3011.5 | 3011.5 | 3011.5 | 3011.5 | 3011.5 | 3011.5 |
| 2.5° | 3040.9 | 3047.1 | 3036.7 | 3034.6 | 3026.2 | 3051.3 | 2990.6 | 2976.0 | 3013.6 | 2978.1 | 2986.4 |
| 5° | 3080.7 | 3095.3 | 3076.5 | 3045.0 | 2999.0 | 2927.8 | 2867.1 | 2787.4 | 2749.7 | 2722.6 | 2718.4 |
| 7.5° | 3109.9 | 3120.4 | 3101.6 | 3001.0 | 2862.8 | 2682.7 | 2548.7 | 2450.3 | 2372.8 | 2349.8 | 2312.1 |
| 10° | 3229.4 | 3231.5 | 3137.2 | 2915.2 | 2645.0 | 2408.4 | 2203.2 | 2052.4 | 1974.9 | 1926.7 | 1905.8 |
| 12.5° | 3308.9 | 3304.7 | 3114.1 | 2745.5 | 2385.3 | 2071.2 | 1836.7 | 1654.5 | 1583.3 | 1560.2 | 1545.6 |
| 15° | 3409.4 | 3386.4 | 3059.7 | 2571.8 | 2050.3 | 1711.0 | 1499.5 | 1373.9 | 1367.6 | 1352.9 | 1367.6 |
| 17.5° | 3489.1 | 3424.1 | 2980.1 | 2255.5 | 1729.9 | 1409.4 | 1271.2 | 1279.6 | 1296.3 | 1311.0 | 1313.1 |
| 20° | 3618.9 | 3484.9 | 2797.9 | 1979.0 | 1432.5 | 1208.3 | 1206.3 | 1244.0 | 1285.9 | 1302.6 | 1319.4 |
| 22.5° | 3717.3 | 3510.0 | 2603.1 | 1683.8 | 1189.5 | 1126.7 | 1162.3 | 1218.9 | 1250.2 | 1267.1 | 1292.1 |
| 25° | 3752.9 | 3440.9 | 2343.4 | 1388.5 | 1072.3 | 1089.0 | 1143.4 | 1181.2 | 1221.0 | 1239.8 | 1229.3 |
| 27.5° | 3788.5 | 3405.3 | 2033.5 | 1143.4 | 1009.5 | 1063.9 | 1110.0 | 1147.6 | 1160.2 | 1185.3 | 1202.1 |
| 30° | 3874.4 | 3281.7 | 1755.0 | 988.5 | 978.0 | 1047.1 | 1080.6 | 1093.2 | 1126.7 | 1141.4 | 1141.4 |
| 32.5° | 3943.4 | 3233.6 | 1459.7 | 915.2 | 973.8 | 1055.5 | 1059.7 | 1059.7 | 1063.9 | 1053.4 | 1049.2 |
| 35° | 4085.9 | 3068.1 | 1195.8 | 871.2 | 971.7 | 1057.6 | 1068.1 | 1032.5 | 936.1 | 898.4 | 887.9 |
| 37.5° | 4261.8 | 2961.2 | 1001.0 | 860.8 | 986.4 | 1082.7 | 1099.5 | 965.5 | 839.8 | 779.1 | 768.6 |
| 40° | 4475.4 | 2885.9 | 873.3 | 856.6 | 1019.9 | 1141.4 | 1091.1 | 913.1 | 749.8 | 661.8 | 657.6 |
| 42.5° | 4724.7 | 2816.8 | 787.4 | 854.5 | 1061.8 | 1202.1 | 1082.7 | 869.1 | 657.6 | 599.0 | 607.4 |
| 45° | 4923.6 | 2779.1 | 728.8 | 839.8 | 1076.5 | 1237.7 | 1089.0 | 791.6 | 619.9 | 582.2 | 586.4 |
| 47.5° | 5078.5 | 2699.5 | 680.6 | 814.7 | 1074.4 | 1250.2 | 1032.5 | 760.2 | 601.1 | 611.5 | 622.0 |
| 50° | 5082.8 | 2592.7 | 619.9 | 760.2 | 1042.9 | 1227.3 | 967.6 | 730.9 | 596.9 | 640.8 | 661.8 |
| 52.5° | 5026.2 | 2441.9 | 555.0 | 682.7 | 969.7 | 1147.6 | 908.9 | 718.3 | 578.0 | 573.8 | 599.0 |
| 55° | 4825.2 | 2159.2 | 446.1 | 552.9 | 818.9 | 946.6 | 856.6 | 695.3 | 521.5 | 473.3 | 477.5 |
| 57.5° | 3899.5 | 1547.7 | 328.8 | 395.8 | 580.1 | 693.2 | 772.8 | 684.8 | 469.1 | 402.1 | 404.2 |
| 60° | 2414.7 | 877.5 | 240.9 | 270.1 | 358.1 | 420.9 | 626.2 | 636.6 | 418.8 | 339.3 | 335.1 |
| 62.5° | 1239.8 | 433.5 | 186.4 | 190.6 | 219.9 | 247.1 | 429.3 | 534.0 | 379.0 | 322.5 | 322.5 |
| 65° | 414.7 | 213.6 | 163.3 | 146.6 | 146.6 | 152.9 | 259.7 | 370.7 | 320.4 | 270.1 | 270.1 |
| 67.5° | 178.0 | 159.2 | 142.4 | 127.7 | 117.3 | 111.0 | 146.6 | 215.7 | 238.8 | 205.2 | 196.9 |
| 70° | 138.3 | 134.1 | 123.5 | 106.8 | 92.2 | 83.8 | 85.9 | 111.0 | 136.2 | 132.0 | 127.7 |
| 72.5° | 102.6 | 102.6 | 98.4 | 83.8 | 71.2 | 60.7 | 56.5 | 58.6 | 64.9 | 67.0 | 69.1 |
| 75° | 71.2 | 73.3 | 73.3 | 64.9 | 52.4 | 44.0 | 37.7 | 31.5 | 25.1 | 20.9 | 18.8 |
| 77.5° | 48.2 | 50.3 | 54.4 | 48.2 | 39.8 | 29.4 | 23.0 | 16.7 | 10.5 | 4.2 | 4.2 |
| 80° | 41.9 | 48.2 | 52.4 | 48.2 | 41.9 | 31.5 | 23.0 | 12.5 | 6.3 | 0.0 | 0.0 |
| 82.5° | 44.0 | 48.2 | 54.4 | 46.1 | 39.8 | 29.4 | 23.0 | 14.6 | 6.3 | 2.1 | 0.0 |
| 85° | 10.5 | 10.5 | 12.5 | 14.6 | 18.8 | 20.9 | 16.7 | 10.5 | 6.3 | 2.1 | 0.0 |
| 87.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 2.1 | 2.1 | 2.1 | 2.1 | 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)