

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: P653956

Luminaire Tested: **GLAN-SA6A-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6A-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17856.1 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

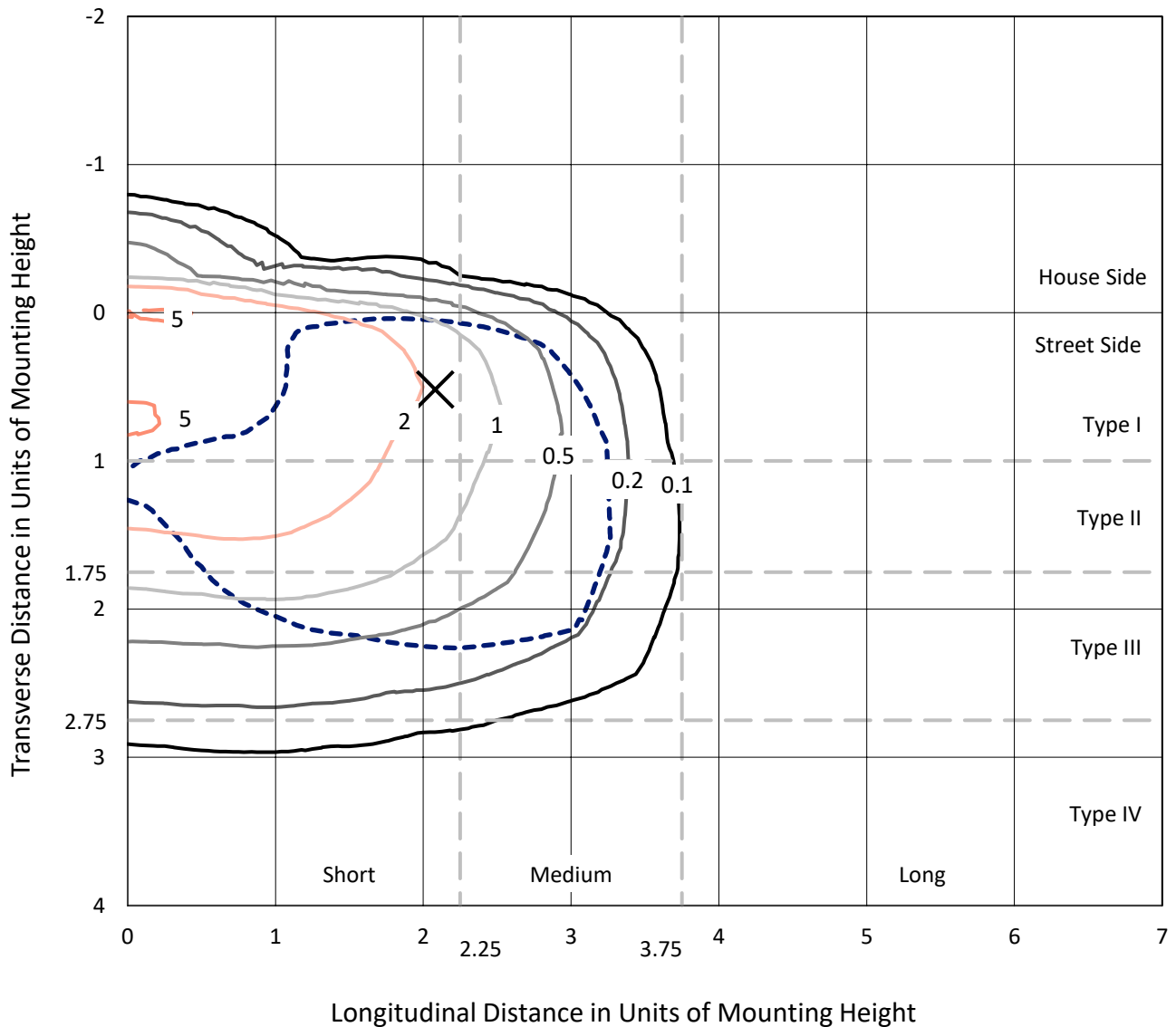
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

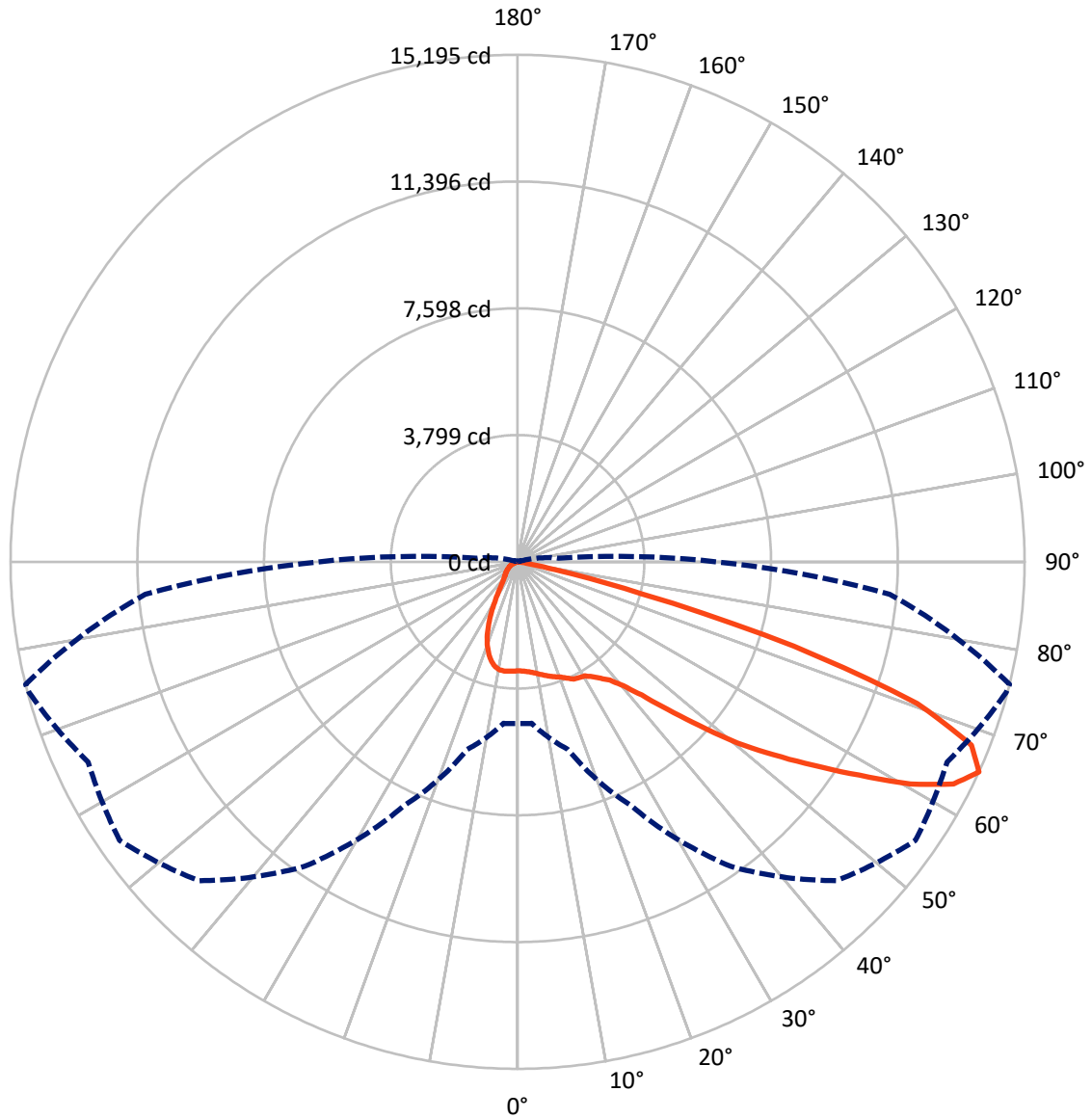
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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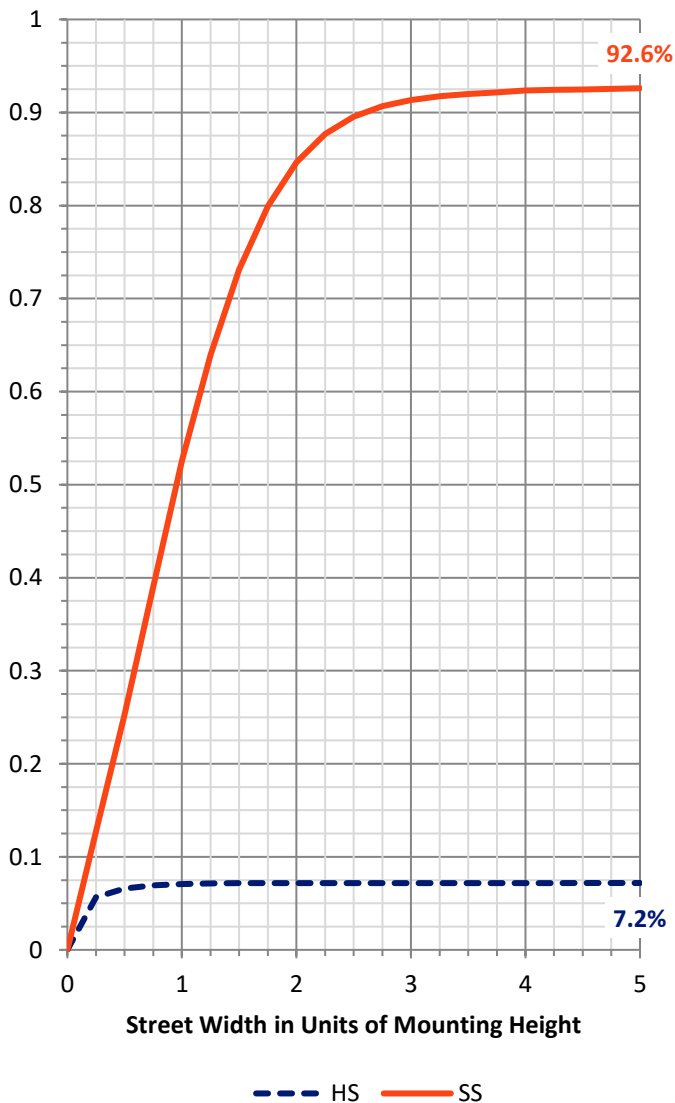
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1289.6 | 0.0 | 1289.6 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 16566.6 | 0.0 | 16566.6 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 17856.1 | 0.0 | 17856.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 269.1 | 1.5 |
| 10°-20° | 599.1 | 3.4 |
| 20°-30° | 965.4 | 5.4 |
| 30°-40° | 1678.7 | 9.4 |
| 40°-50° | 2773.9 | 15.5 |
| 50°-60° | 4285.1 | 24.0 |
| 60°-70° | 5232.7 | 29.3 |
| 70°-80° | 1985.9 | 11.1 |
| 80°-90° | 66.3 | 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° | 17856.1 | 100.0 |
| 0°-180° | 17856.1 | 100.0 |

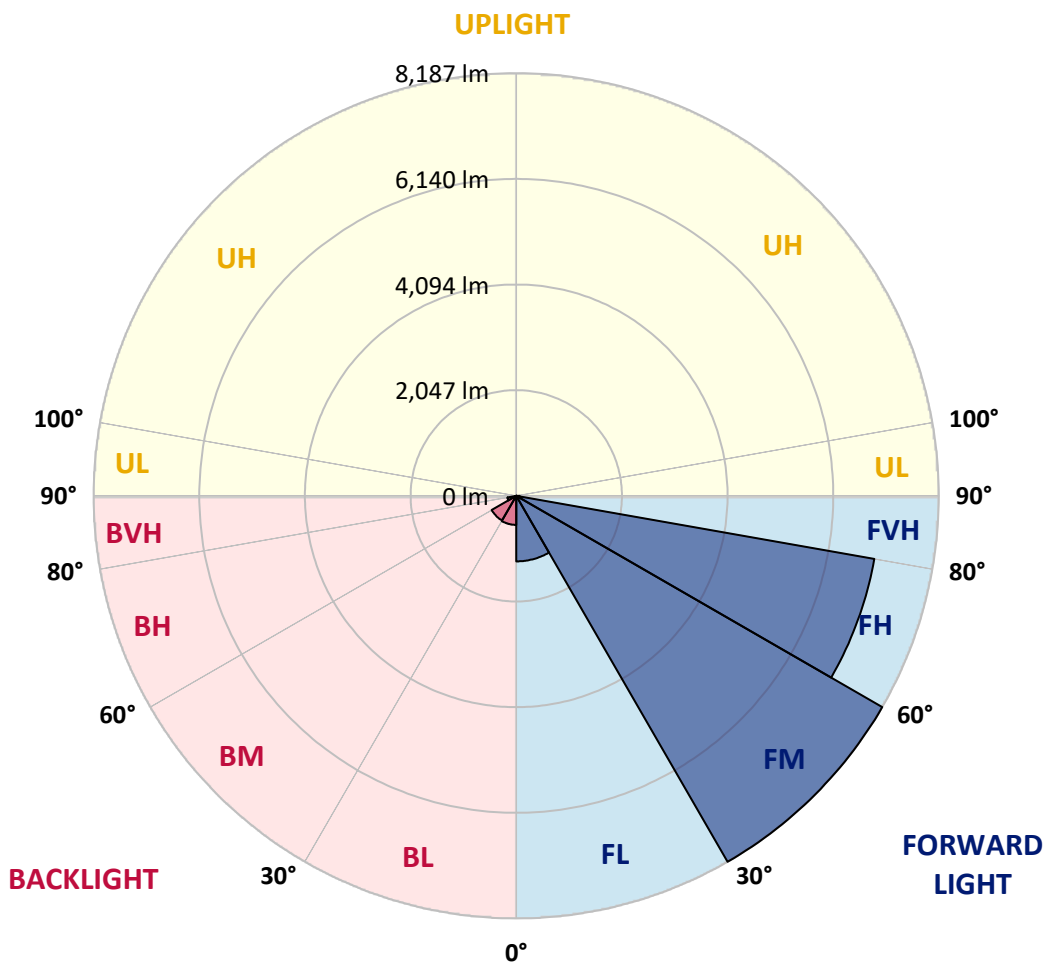


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1270.3 | 7.1 | | | |
| FM (30°-60°) | 8187.3 | 45.9 | | | |
| FH (60°-80°) | 7043.6 | 39.4 | | | G3/7500 |
| FVH (80°-90°) | 65.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 563.4 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 550.3 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 175.0 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.9 | 0.0 | | | G0/10 |
| 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° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3266.4 | 3266.4 | 3266.4 | 3266.4 | 3266.4 | 3266.4 | 3266.4 | 3266.4 | 3266.4 | 3266.4 | 3266.4 |
| 2.5° | 3121.5 | 3122.7 | 3130.3 | 3149.2 | 3178.2 | 3202.2 | 3222.3 | 3255.1 | 3277.8 | 3280.3 | 3287.9 |
| 5° | 2905.9 | 2890.8 | 2905.9 | 2955.0 | 2999.2 | 3066.0 | 3147.9 | 3229.9 | 3303.0 | 3308.1 | 3343.4 |
| 7.5° | 2663.9 | 2676.5 | 2700.4 | 2750.8 | 2834.0 | 2936.2 | 3054.7 | 3200.9 | 3339.6 | 3352.1 | 3421.5 |
| 10° | 2418.0 | 2445.7 | 2484.8 | 2561.7 | 2677.7 | 2810.1 | 2971.4 | 3180.7 | 3397.6 | 3415.2 | 3535.0 |
| 12.5° | 2191.1 | 2203.7 | 2251.6 | 2355.0 | 2498.7 | 2685.3 | 2908.4 | 3169.4 | 3461.9 | 3483.3 | 3656.0 |
| 15° | 2017.1 | 2033.5 | 2075.1 | 2168.4 | 2328.5 | 2568.0 | 2856.7 | 3165.6 | 3524.9 | 3555.2 | 3777.0 |
| 17.5° | 1984.3 | 1994.4 | 2012.1 | 2075.1 | 2215.0 | 2474.7 | 2810.1 | 3164.3 | 3585.4 | 3621.9 | 3889.2 |
| 20° | 2119.2 | 2110.4 | 2092.7 | 2086.4 | 2163.4 | 2402.9 | 2776.1 | 3174.4 | 3643.4 | 3685.0 | 4007.7 |
| 22.5° | 2457.1 | 2468.4 | 2365.1 | 2242.8 | 2217.5 | 2391.6 | 2771.0 | 3222.3 | 3735.5 | 3784.6 | 4140.1 |
| 25° | 3174.4 | 3087.4 | 2926.1 | 2633.6 | 2413.0 | 2460.9 | 2827.7 | 3335.8 | 3842.6 | 3896.8 | 4259.9 |
| 27.5° | 3967.4 | 3940.9 | 3690.1 | 3208.5 | 2797.5 | 2607.1 | 2928.6 | 3422.8 | 3877.9 | 3933.4 | 4328.0 |
| 30° | 4746.5 | 4778.1 | 4490.6 | 3958.6 | 3355.9 | 2878.2 | 3023.1 | 3455.6 | 3909.4 | 3967.4 | 4414.9 |
| 32.5° | 5468.9 | 5506.7 | 5254.6 | 4727.6 | 4014.0 | 3347.1 | 3185.8 | 3582.9 | 4041.8 | 4101.1 | 4559.9 |
| 35° | 6037.5 | 6042.5 | 5852.1 | 5432.4 | 4732.6 | 3917.0 | 3537.5 | 3806.0 | 4220.8 | 4290.1 | 4713.7 |
| 37.5° | 6559.4 | 6551.8 | 6328.7 | 5966.9 | 5331.4 | 4483.0 | 3980.0 | 4063.2 | 4425.0 | 4496.9 | 4935.6 |
| 40° | 6946.4 | 6951.5 | 6879.6 | 6539.2 | 5889.9 | 5006.2 | 4330.5 | 4304.0 | 4768.0 | 4880.2 | 5258.4 |
| 42.5° | 7204.8 | 7251.5 | 7286.8 | 7114.1 | 6592.2 | 5650.4 | 4868.8 | 4819.6 | 5363.0 | 5456.2 | 5714.7 |
| 45° | 7414.1 | 7497.3 | 7673.9 | 7665.0 | 7266.7 | 6440.9 | 5607.5 | 5506.7 | 6206.4 | 6306.0 | 6295.9 |
| 47.5° | 7566.6 | 7651.2 | 7943.6 | 8120.1 | 7900.8 | 7207.4 | 6536.7 | 6449.7 | 7213.7 | 7322.1 | 6937.6 |
| 50° | 7644.9 | 7745.7 | 8118.8 | 8460.5 | 8396.2 | 7946.1 | 7595.7 | 7600.7 | 8430.3 | 8534.9 | 7681.4 |
| 52.5° | 7462.0 | 7593.1 | 8212.1 | 8827.4 | 8952.2 | 8653.4 | 8587.9 | 8754.2 | 9513.1 | 9602.7 | 8353.3 |
| 55° | 6878.4 | 7043.5 | 8084.8 | 9140.0 | 9596.4 | 9488.0 | 9714.9 | 9968.3 | 10696.9 | 10755.0 | 9042.9 |
| 57.5° | 6508.9 | 6684.2 | 7709.1 | 9406.0 | 10370.5 | 10536.9 | 10896.2 | 11081.5 | 11918.6 | 12066.1 | 9834.7 |
| 60° | 6197.6 | 6335.0 | 7400.3 | 9462.8 | 11157.1 | 11820.3 | 12169.4 | 12361.1 | 13426.4 | 13522.2 | 10705.8 |
| 62.5° | 5679.4 | 5837.0 | 6878.4 | 9066.9 | 11553.0 | 12847.7 | 13571.4 | 13485.6 | 14592.5 | 14659.3 | 11240.3 |
| 65° | 4846.1 | 4860.0 | 5819.4 | 8072.2 | 11144.5 | 13514.6 | 14555.9 | 14196.7 | 15149.8 | 15195.1 | 11198.8 |
| 67.5° | 3616.9 | 3750.5 | 4476.7 | 6345.1 | 9413.6 | 12944.8 | 14874.9 | 14215.6 | 14798.0 | 14671.9 | 10309.9 |
| 70° | 2329.7 | 2431.8 | 3034.5 | 4399.8 | 6787.5 | 10802.9 | 13817.2 | 13241.0 | 12987.6 | 12707.8 | 8439.1 |
| 72.5° | 1075.4 | 1206.5 | 1802.8 | 2513.8 | 4025.4 | 7695.2 | 11216.4 | 10757.5 | 9348.1 | 8657.2 | 5364.2 |
| 75° | 468.9 | 501.7 | 890.0 | 1326.3 | 1887.3 | 4069.5 | 7395.2 | 6677.9 | 4222.1 | 3856.5 | 2147.0 |
| 77.5° | 286.2 | 307.6 | 466.4 | 711.1 | 741.3 | 1550.6 | 3983.8 | 2913.5 | 1304.8 | 1151.0 | 582.5 |
| 80° | 194.2 | 218.1 | 339.1 | 371.9 | 253.4 | 432.4 | 1495.2 | 777.8 | 263.5 | 252.1 | 124.8 |
| 82.5° | 94.5 | 119.8 | 250.9 | 208.0 | 109.7 | 138.7 | 435.0 | 166.4 | 76.9 | 71.8 | 44.2 |
| 85° | 13.9 | 24.0 | 141.2 | 136.2 | 49.2 | 32.8 | 76.9 | 41.6 | 26.5 | 25.2 | 20.2 |
| 87.5° | 0.0 | 0.0 | 47.9 | 21.4 | 5.0 | 5.0 | 8.8 | 8.8 | 10.1 | 8.8 | 10.1 |
| 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-SA6A-840-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3266.4 | 3266.4 | 3266.4 | 3266.4 | 3266.4 | 3266.4 | 3266.4 | 3266.4 | 3266.4 | 3266.4 | 3266.4 |
| 2.5° | 3291.7 | 3298.0 | 3274.0 | 3240.0 | 3203.5 | 3166.9 | 3115.1 | 3068.6 | 3040.8 | 3057.2 | 3016.8 |
| 5° | 3350.9 | 3345.8 | 3282.8 | 3179.5 | 3042.1 | 2876.9 | 2713.0 | 2573.0 | 2527.7 | 2459.6 | 2452.0 |
| 7.5° | 3432.9 | 3419.0 | 3285.4 | 3048.4 | 2738.2 | 2428.1 | 2125.5 | 1925.0 | 1810.3 | 1713.3 | 1715.8 |
| 10° | 3547.6 | 3507.2 | 3256.4 | 2817.7 | 2307.0 | 1839.4 | 1453.6 | 1188.8 | 1074.1 | 1037.5 | 1008.5 |
| 12.5° | 3666.1 | 3588.0 | 3175.7 | 2506.3 | 1796.5 | 1256.9 | 883.7 | 722.3 | 651.8 | 629.1 | 626.5 |
| 15° | 3772.0 | 3648.4 | 3034.5 | 2131.9 | 1306.1 | 803.1 | 602.6 | 549.7 | 540.8 | 542.1 | 540.8 |
| 17.5° | 3876.6 | 3696.4 | 2839.0 | 1734.7 | 887.5 | 576.2 | 518.1 | 505.5 | 509.3 | 514.4 | 513.1 |
| 20° | 3963.6 | 3706.5 | 2589.4 | 1323.7 | 627.8 | 505.5 | 486.6 | 484.1 | 487.9 | 491.6 | 491.6 |
| 22.5° | 4058.2 | 3714.0 | 2293.2 | 916.5 | 513.1 | 470.2 | 460.1 | 460.1 | 465.2 | 470.2 | 471.5 |
| 25° | 4128.8 | 3672.4 | 1938.9 | 658.1 | 452.6 | 436.2 | 431.2 | 432.4 | 437.5 | 440.0 | 438.7 |
| 27.5° | 4140.1 | 3555.2 | 1563.3 | 504.3 | 411.0 | 394.6 | 389.6 | 394.6 | 388.3 | 392.1 | 389.6 |
| 30° | 4150.2 | 3406.4 | 1182.5 | 424.9 | 373.2 | 347.9 | 340.4 | 332.8 | 327.8 | 321.5 | 320.3 |
| 32.5° | 4181.7 | 3231.1 | 863.5 | 382.0 | 337.8 | 310.2 | 292.5 | 271.1 | 254.7 | 249.6 | 248.3 |
| 35° | 4195.6 | 3020.6 | 634.1 | 347.9 | 306.4 | 276.1 | 244.6 | 214.3 | 190.4 | 181.6 | 187.9 |
| 37.5° | 4248.6 | 2816.4 | 491.6 | 322.8 | 278.6 | 240.8 | 200.4 | 162.6 | 139.9 | 134.9 | 137.4 |
| 40° | 4357.0 | 2594.5 | 412.3 | 301.3 | 254.7 | 208.0 | 158.9 | 122.3 | 107.1 | 102.1 | 100.8 |
| 42.5° | 4530.9 | 2373.9 | 366.8 | 281.1 | 230.7 | 175.3 | 124.8 | 95.8 | 83.2 | 79.4 | 79.4 |
| 45° | 4742.7 | 2162.1 | 335.3 | 259.7 | 205.5 | 141.2 | 98.3 | 76.9 | 69.3 | 66.8 | 66.8 |
| 47.5° | 5021.4 | 1976.8 | 308.9 | 238.3 | 177.8 | 112.2 | 79.4 | 66.8 | 61.8 | 63.1 | 64.3 |
| 50° | 5303.8 | 1839.4 | 279.9 | 214.3 | 146.2 | 92.0 | 68.0 | 59.3 | 58.0 | 59.3 | 59.3 |
| 52.5° | 5516.8 | 1758.7 | 240.8 | 181.6 | 114.7 | 76.9 | 60.6 | 55.5 | 54.2 | 51.7 | 51.7 |
| 55° | 5804.2 | 1741.0 | 191.7 | 147.5 | 90.7 | 64.3 | 54.2 | 50.5 | 46.7 | 44.2 | 42.9 |
| 57.5° | 6173.6 | 1761.2 | 147.5 | 114.7 | 70.6 | 53.0 | 47.9 | 41.6 | 36.6 | 31.5 | 31.5 |
| 60° | 6403.0 | 1715.8 | 114.7 | 88.2 | 51.7 | 42.9 | 36.6 | 30.3 | 24.0 | 20.2 | 18.9 |
| 62.5° | 6330.0 | 1524.1 | 90.7 | 65.6 | 36.6 | 31.5 | 24.0 | 20.2 | 13.9 | 10.1 | 8.8 |
| 65° | 5953.0 | 1230.5 | 73.1 | 45.4 | 26.5 | 18.9 | 12.6 | 12.6 | 6.3 | 1.3 | 0.0 |
| 67.5° | 5210.4 | 911.5 | 58.0 | 30.3 | 15.1 | 8.8 | 6.3 | 3.8 | 0.0 | 0.0 | 0.0 |
| 70° | 4241.0 | 658.1 | 45.4 | 18.9 | 8.8 | 6.3 | 2.5 | 1.3 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2692.8 | 376.9 | 35.3 | 11.4 | 6.3 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1041.3 | 147.5 | 24.0 | 7.6 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 295.0 | 69.3 | 13.9 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 76.9 | 30.3 | 7.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 36.6 | 12.6 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 21.4 | 5.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.1 | 1.3 | 0.0 | 0.0 | 0.0 | 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)