

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: P653930

Luminaire Tested: **GLAN-SA6A-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6A-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18865.3 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

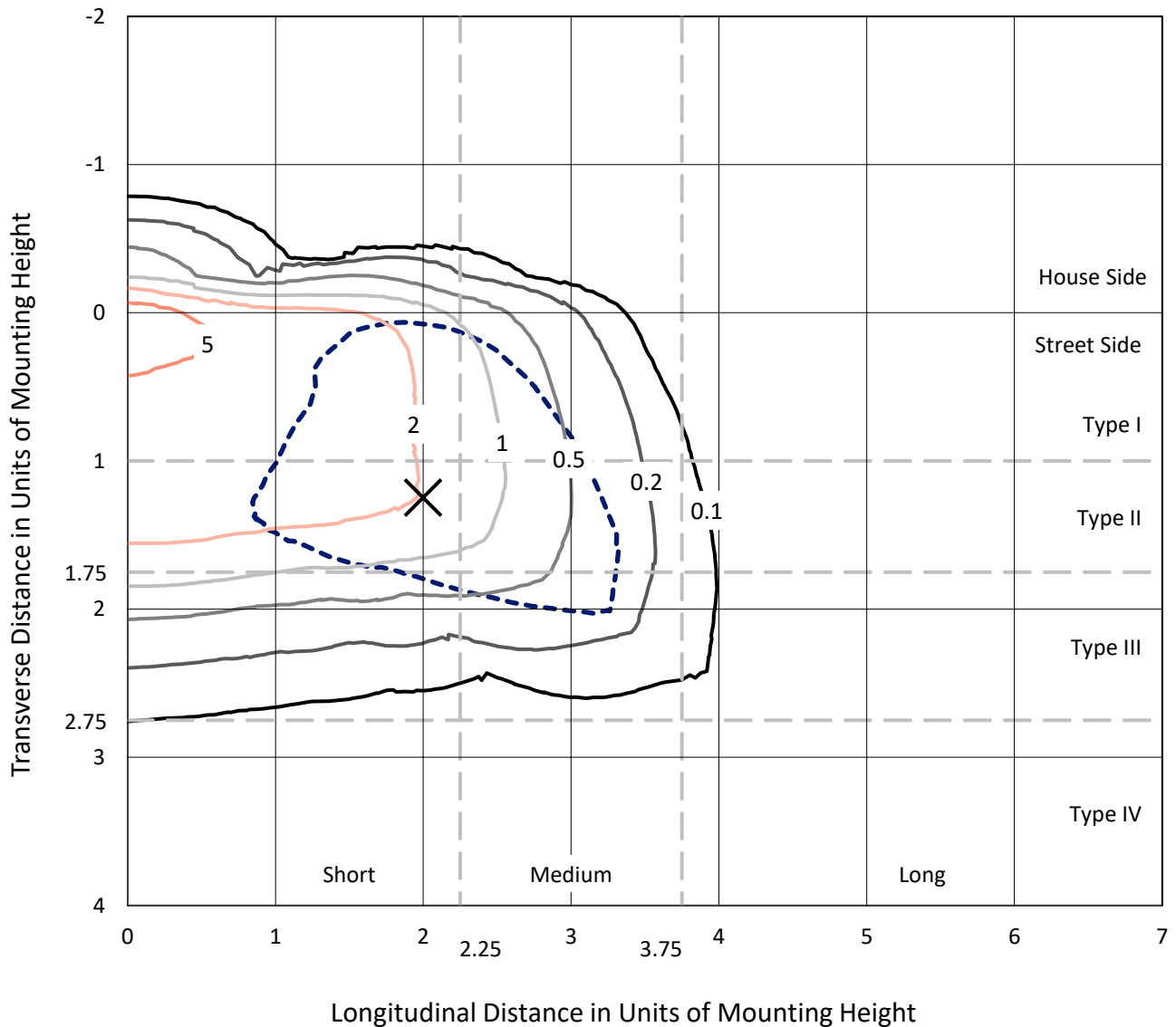
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

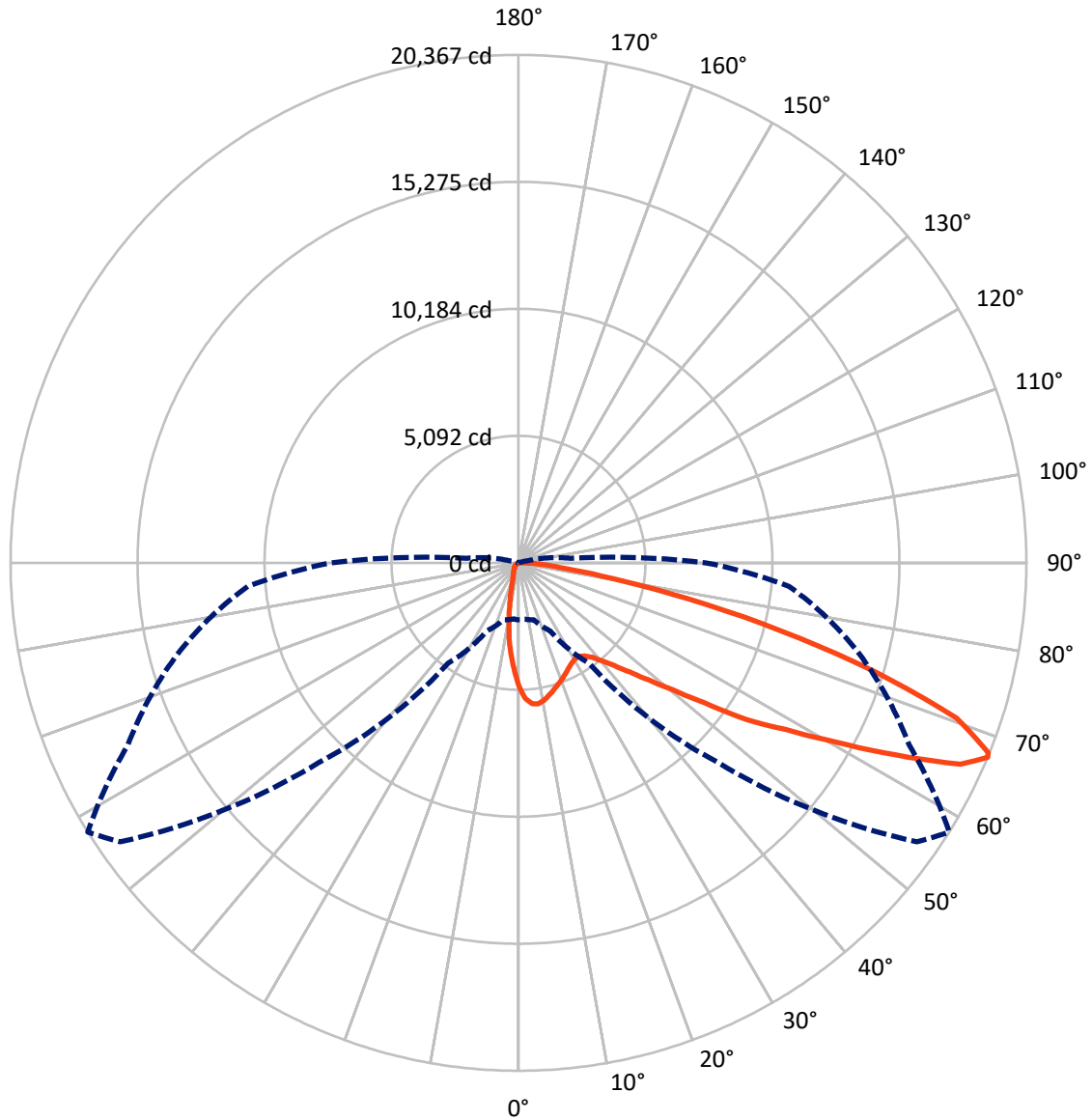
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1361.4 | 0.0 | 1361.4 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 17503.9 | 0.0 | 17503.9 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 18865.3 | 0.0 | 18865.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 405.8 | 2.2 |
| 10°-20° | 876.5 | 4.6 |
| 20°-30° | 1187.7 | 6.3 |
| 30°-40° | 1647.2 | 8.7 |
| 40°-50° | 2627.2 | 13.9 |
| 50°-60° | 4541.3 | 24.1 |
| 60°-70° | 5187.6 | 27.5 |
| 70°-80° | 2162.7 | 11.5 |
| 80°-90° | 229.3 | 1.2 |
| 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° | 18865.3 | 100.0 |
| 0°-180° | 18865.3 | 100.0 |

Coefficient of Utilization



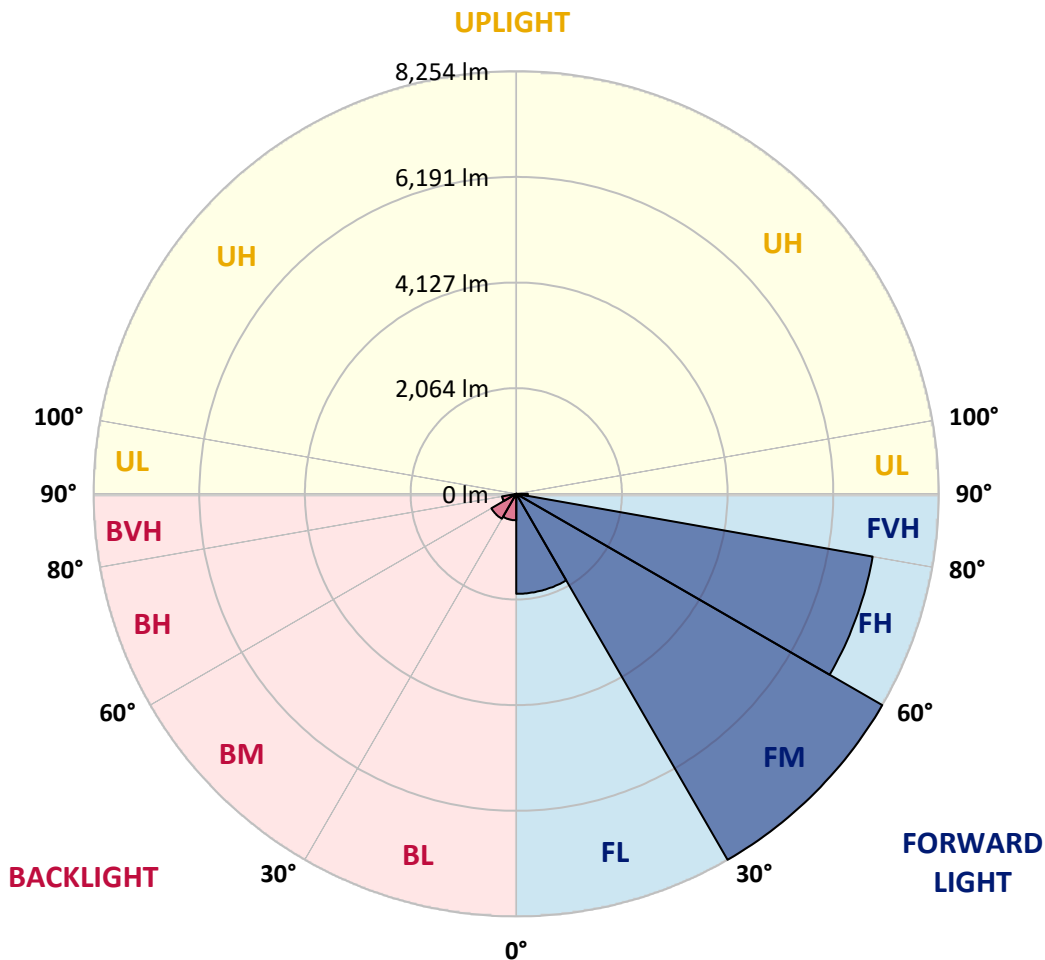
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1953.0 | 10.4 | | | |
| FM (30°-60°) | 8254.4 | 43.8 | | | |
| FH (60°-80°) | 7068.9 | 37.5 | | | G3/7500 |
| FVH (80°-90°) | 227.6 | 1.2 | | | G3/500 |
| BL (0°-30°) | 517.0 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 561.4 | 3.0 | B1/1000 | | |
| BH (60°-80°) | 281.5 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.7 | 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° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5001.0 | 5001.0 | 5001.0 | 5001.0 | 5001.0 | 5001.0 | 5001.0 | 5001.0 | 5001.0 | 5001.0 | 5001.0 |
| 2.5° | 5804.1 | 5812.9 | 5780.1 | 5753.6 | 5685.6 | 5612.4 | 5515.4 | 5463.6 | 5375.4 | 5222.9 | 5054.0 |
| 5° | 5940.2 | 5951.6 | 5946.5 | 5940.2 | 5913.7 | 5843.1 | 5719.6 | 5674.2 | 5544.4 | 5296.0 | 4990.9 |
| 7.5° | 5637.6 | 5679.3 | 5684.3 | 5733.4 | 5780.1 | 5786.4 | 5739.7 | 5705.8 | 5586.0 | 5294.8 | 4878.7 |
| 10° | 5236.7 | 5264.5 | 5304.9 | 5361.5 | 5473.7 | 5567.1 | 5612.4 | 5607.4 | 5538.1 | 5255.7 | 4747.6 |
| 12.5° | 4832.1 | 4847.2 | 4909.0 | 5006.1 | 5143.5 | 5302.3 | 5423.4 | 5447.3 | 5448.6 | 5209.1 | 4637.9 |
| 15° | 4484.1 | 4477.8 | 4525.8 | 4637.9 | 4830.9 | 5030.0 | 5246.8 | 5284.7 | 5345.1 | 5163.7 | 4535.8 |
| 17.5° | 4186.7 | 4219.4 | 4227.0 | 4350.5 | 4528.3 | 4786.7 | 5062.8 | 5129.6 | 5250.6 | 5124.5 | 4451.4 |
| 20° | 4002.6 | 4020.2 | 4036.6 | 4105.9 | 4266.1 | 4538.4 | 4890.1 | 4982.1 | 5162.4 | 5089.2 | 4356.8 |
| 22.5° | 3948.4 | 3959.7 | 3945.9 | 3967.2 | 4080.8 | 4322.8 | 4702.3 | 4824.6 | 5078.0 | 5056.5 | 4279.9 |
| 25° | 3990.0 | 4001.3 | 3968.5 | 3943.4 | 3982.4 | 4147.6 | 4520.7 | 4669.5 | 5009.8 | 5050.2 | 4221.9 |
| 27.5° | 4090.8 | 4112.2 | 4066.9 | 4021.5 | 3998.8 | 4053.0 | 4378.2 | 4551.0 | 4963.2 | 5080.5 | 4195.5 |
| 30° | 4248.4 | 4261.0 | 4227.0 | 4171.5 | 4119.8 | 4065.6 | 4303.9 | 4469.0 | 4950.6 | 5151.0 | 4193.0 |
| 32.5° | 4419.9 | 4446.4 | 4427.4 | 4390.9 | 4324.1 | 4195.5 | 4325.3 | 4471.5 | 4980.8 | 5253.1 | 4224.4 |
| 35° | 4631.6 | 4661.9 | 4679.6 | 4672.0 | 4586.2 | 4426.2 | 4461.4 | 4585.0 | 5061.6 | 5441.0 | 4310.2 |
| 37.5° | 4839.6 | 4866.1 | 4965.7 | 4999.7 | 4924.1 | 4772.8 | 4726.2 | 4808.2 | 5239.3 | 5686.8 | 4465.2 |
| 40° | 5078.0 | 5113.2 | 5253.1 | 5383.0 | 5346.4 | 5187.6 | 5101.8 | 5170.0 | 5511.6 | 6057.5 | 4759.0 |
| 42.5° | 5306.1 | 5369.1 | 5582.2 | 5811.6 | 5845.6 | 5667.9 | 5611.2 | 5633.9 | 5915.0 | 6590.7 | 5168.7 |
| 45° | 5630.1 | 5689.4 | 5964.2 | 6275.5 | 6435.7 | 6297.0 | 6239.0 | 6235.2 | 6468.4 | 7340.8 | 5833.1 |
| 47.5° | 6097.8 | 6150.7 | 6474.7 | 6782.3 | 7067.3 | 7086.2 | 6976.4 | 7014.3 | 7164.3 | 8218.3 | 6647.4 |
| 50° | 6671.4 | 6796.2 | 7009.2 | 7329.5 | 7710.2 | 8017.8 | 8051.8 | 8001.4 | 8129.9 | 9234.3 | 7625.7 |
| 52.5° | 7504.7 | 7552.6 | 7748.0 | 8011.5 | 8457.8 | 8979.6 | 9384.3 | 9315.0 | 9274.6 | 10202.5 | 8614.0 |
| 55° | 8126.2 | 8190.5 | 8494.3 | 8856.1 | 9510.4 | 10198.7 | 11076.1 | 11100.1 | 10590.8 | 11132.8 | 9581.0 |
| 57.5° | 7938.4 | 8036.7 | 8496.8 | 9224.3 | 10662.6 | 11920.8 | 12573.8 | 12590.2 | 11808.6 | 12036.7 | 10672.7 |
| 60° | 6973.9 | 7020.6 | 7679.9 | 8650.6 | 10760.9 | 13786.5 | 14698.0 | 14565.6 | 13047.8 | 13047.8 | 11637.1 |
| 62.5° | 4945.6 | 5018.7 | 5553.2 | 6981.5 | 9718.4 | 14434.5 | 17242.0 | 16968.4 | 14754.7 | 14014.7 | 12212.0 |
| 65° | 3160.5 | 3089.8 | 3444.1 | 4407.3 | 7239.9 | 13477.7 | 19457.0 | 19473.4 | 16360.8 | 14401.7 | 11898.0 |
| 67° | 2289.4 | 2261.6 | 2363.7 | 3013.0 | 4909.0 | 11329.5 | 19503.6 | 20367.2 | 17283.6 | 14157.1 | 10894.6 |
| 67.5° | 2093.9 | 2115.4 | 2189.8 | 2717.9 | 4460.2 | 10309.7 | 19291.8 | 20314.2 | 17491.6 | 14009.6 | 10531.5 |
| 70° | 1587.1 | 1550.6 | 1631.3 | 1922.5 | 2673.9 | 6503.7 | 16595.3 | 18631.3 | 17233.2 | 12546.0 | 8414.9 |
| 72.5° | 1167.4 | 1163.6 | 1275.8 | 1572.0 | 2058.7 | 3464.2 | 12457.8 | 14938.8 | 14079.0 | 9553.3 | 5298.6 |
| 75° | 787.9 | 823.2 | 1002.2 | 1313.6 | 1865.8 | 2246.5 | 8493.0 | 10837.9 | 9773.8 | 5424.6 | 2165.8 |
| 77.5° | 448.8 | 451.3 | 645.5 | 1055.2 | 1675.4 | 1807.8 | 5032.5 | 6904.6 | 5173.7 | 1804.0 | 642.9 |
| 80° | 194.1 | 213.0 | 320.2 | 766.5 | 1389.2 | 1601.0 | 2885.6 | 3794.6 | 2092.7 | 382.0 | 208.0 |
| 82.5° | 71.8 | 84.4 | 141.2 | 471.5 | 1013.6 | 1318.6 | 1743.5 | 1811.6 | 709.7 | 134.9 | 129.9 |
| 85° | 0.0 | 2.5 | 51.7 | 220.6 | 528.2 | 588.7 | 1164.9 | 1074.0 | 313.9 | 64.3 | 84.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 22.7 | 69.3 | 219.3 | 361.8 | 403.4 | 75.6 | 22.7 | 20.2 |
| 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-SA6A-840-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5001.0 | 5001.0 | 5001.0 | 5001.0 | 5001.0 | 5001.0 | 5001.0 | 5001.0 | 5001.0 | 5001.0 | 5001.0 |
| 2.5° | 4963.2 | 4881.2 | 4675.8 | 4470.3 | 4317.8 | 4190.5 | 3998.8 | 3894.2 | 3838.7 | 3756.7 | 3761.8 |
| 5° | 4838.4 | 4672.0 | 4310.2 | 3935.8 | 3633.2 | 3338.2 | 2985.2 | 2842.7 | 2723.0 | 2655.0 | 2609.5 |
| 7.5° | 4653.1 | 4407.3 | 3871.5 | 3372.2 | 2907.1 | 2391.5 | 2004.4 | 1746.0 | 1572.0 | 1507.7 | 1445.9 |
| 10° | 4450.2 | 4123.6 | 3426.5 | 2734.3 | 2088.9 | 1556.9 | 1229.1 | 992.1 | 907.7 | 829.5 | 837.0 |
| 12.5° | 4262.3 | 3865.2 | 3018.0 | 2158.3 | 1463.6 | 989.6 | 771.5 | 674.5 | 646.7 | 637.9 | 637.9 |
| 15° | 4108.5 | 3618.1 | 2579.3 | 1622.5 | 1003.5 | 711.0 | 617.7 | 591.2 | 581.1 | 578.6 | 578.6 |
| 17.5° | 3944.6 | 3383.6 | 2183.5 | 1198.8 | 729.9 | 595.0 | 563.6 | 545.9 | 542.1 | 539.6 | 539.6 |
| 20° | 3798.4 | 3147.9 | 1807.8 | 892.6 | 590.0 | 535.8 | 515.6 | 504.3 | 500.5 | 498.0 | 499.2 |
| 22.5° | 3659.7 | 2938.6 | 1454.8 | 674.5 | 519.4 | 487.9 | 467.7 | 456.3 | 448.8 | 442.5 | 443.7 |
| 25° | 3536.2 | 2736.9 | 1169.9 | 552.2 | 467.7 | 439.9 | 419.8 | 403.4 | 387.0 | 379.5 | 378.2 |
| 27.5° | 3449.2 | 2560.4 | 911.5 | 472.7 | 421.1 | 390.8 | 365.6 | 345.4 | 324.0 | 312.7 | 310.2 |
| 30° | 3377.3 | 2381.4 | 721.1 | 417.3 | 374.4 | 345.4 | 313.9 | 284.9 | 262.2 | 250.9 | 245.8 |
| 32.5° | 3330.6 | 2211.2 | 568.5 | 371.9 | 335.3 | 300.1 | 264.7 | 235.7 | 210.5 | 199.1 | 196.6 |
| 35° | 3323.1 | 2068.8 | 465.2 | 334.0 | 300.1 | 262.2 | 225.6 | 194.1 | 172.7 | 161.4 | 158.9 |
| 37.5° | 3377.3 | 1959.0 | 389.6 | 303.9 | 271.1 | 229.4 | 189.1 | 160.1 | 141.2 | 132.4 | 131.1 |
| 40° | 3522.3 | 1889.7 | 337.8 | 278.6 | 244.6 | 199.1 | 161.4 | 136.2 | 117.2 | 108.4 | 108.4 |
| 42.5° | 3798.4 | 1892.2 | 303.9 | 254.7 | 218.1 | 170.2 | 137.4 | 113.5 | 97.1 | 89.5 | 87.0 |
| 45° | 4229.5 | 1977.9 | 274.8 | 230.7 | 192.8 | 147.5 | 117.2 | 93.3 | 76.9 | 70.6 | 70.6 |
| 47.5° | 4806.9 | 2148.2 | 249.6 | 206.7 | 170.2 | 126.1 | 99.6 | 75.6 | 61.8 | 55.5 | 55.5 |
| 50° | 5562.0 | 2421.7 | 228.2 | 186.6 | 151.3 | 108.4 | 80.7 | 61.8 | 47.9 | 42.9 | 41.6 |
| 52.5° | 6351.1 | 2759.6 | 202.9 | 169.0 | 129.9 | 92.0 | 65.5 | 47.9 | 36.6 | 32.8 | 31.5 |
| 55° | 7222.3 | 3089.8 | 179.0 | 151.3 | 105.9 | 76.9 | 51.7 | 37.8 | 26.5 | 22.7 | 22.7 |
| 57.5° | 8100.9 | 3413.9 | 150.0 | 126.1 | 83.2 | 56.8 | 40.4 | 27.8 | 17.7 | 13.9 | 13.9 |
| 60° | 8844.8 | 3518.5 | 127.3 | 102.1 | 63.0 | 40.4 | 29.0 | 17.7 | 10.1 | 6.3 | 6.3 |
| 62.5° | 8946.9 | 3165.5 | 107.1 | 78.1 | 45.4 | 27.8 | 15.1 | 10.1 | 3.8 | 2.5 | 2.5 |
| 65° | 8392.2 | 2571.8 | 89.5 | 59.3 | 30.3 | 13.9 | 6.3 | 3.8 | 1.3 | 0.0 | 0.0 |
| 67° | 7519.8 | 2085.1 | 73.1 | 44.2 | 21.4 | 8.8 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 |
| 67.5° | 7296.7 | 1988.0 | 70.6 | 41.6 | 18.9 | 7.6 | 2.5 | 1.3 | 0.0 | 0.0 | 0.0 |
| 70° | 5725.9 | 1488.8 | 50.5 | 25.2 | 11.4 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 3558.9 | 842.1 | 36.6 | 15.1 | 7.6 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1345.1 | 295.0 | 25.2 | 10.1 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 418.6 | 112.2 | 15.1 | 7.6 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 141.2 | 42.9 | 10.1 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 87.0 | 17.7 | 6.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 54.2 | 7.6 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.1 | 2.5 | 1.3 | 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)