

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: P654034

Luminaire Tested: **GLAN-SA8A-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18126.9 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

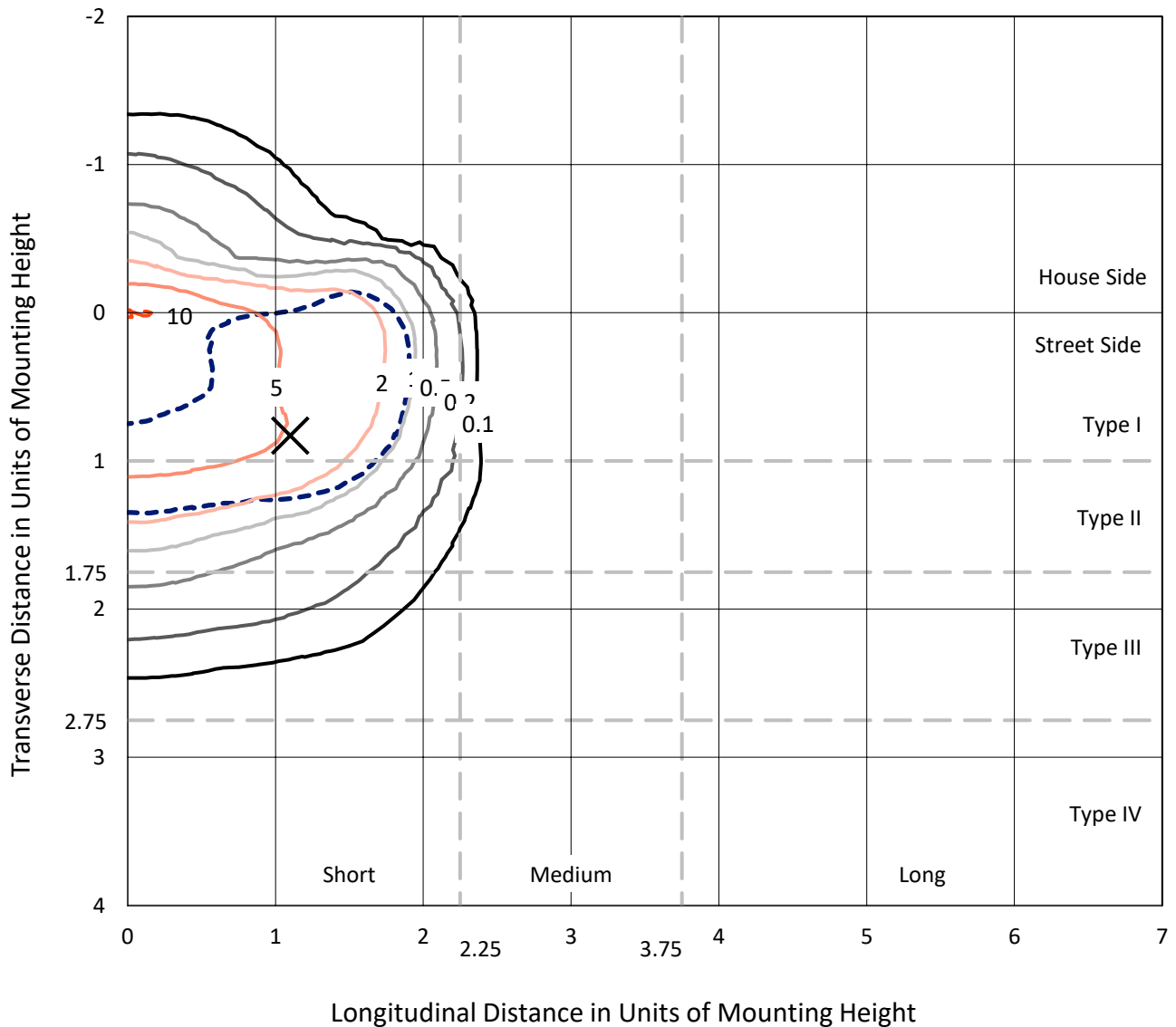
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P654034
 CATALOG NUMBER: GLAN-SA8A-840-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

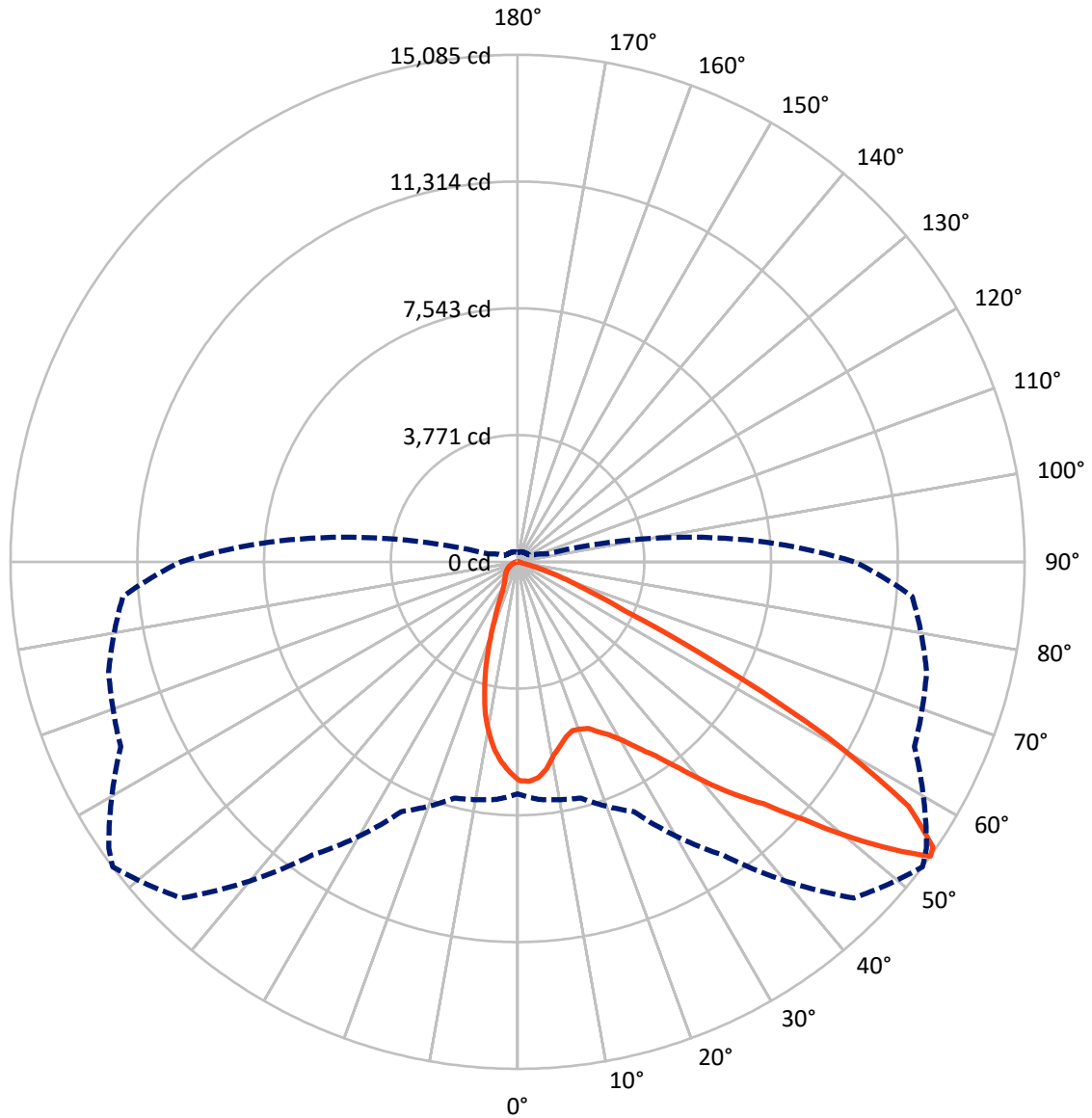
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

REPORT NUMBER: P654034
CATALOG NUMBER: GLAN-SA8A-840-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P654034
 CATALOG NUMBER: GLAN-SA8A-840-U-SL2-GRSBK

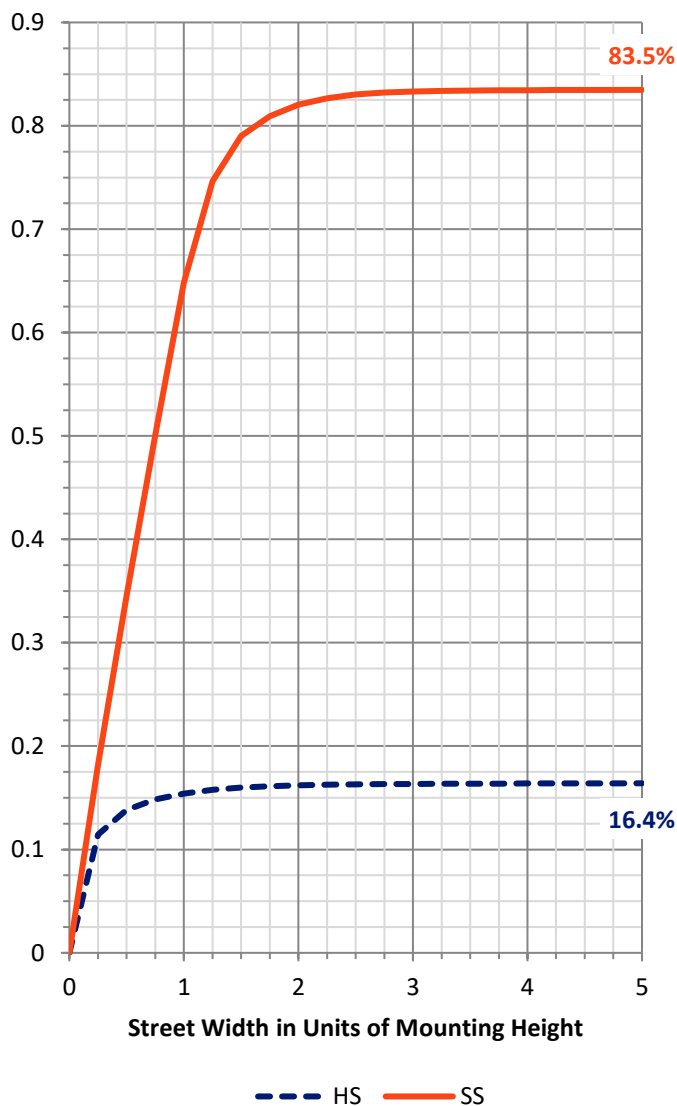
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2999.1 | 0.0 | 2999.1 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 15127.8 | 0.0 | 15127.8 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 18126.9 | 0.0 | 18126.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 558.6 | 3.1 |
| 10°-20° | 1280.7 | 7.1 |
| 20°-30° | 1820.2 | 10.0 |
| 30°-40° | 2809.0 | 15.5 |
| 40°-50° | 4404.3 | 24.3 |
| 50°-60° | 5116.2 | 28.2 |
| 60°-70° | 1933.2 | 10.7 |
| 70°-80° | 183.8 | 1.0 |
| 80°-90° | 20.7 | 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° | 18126.9 | 100.0 |
| 0°-180° | 18126.9 | 100.0 |

Coefficient of Utilization

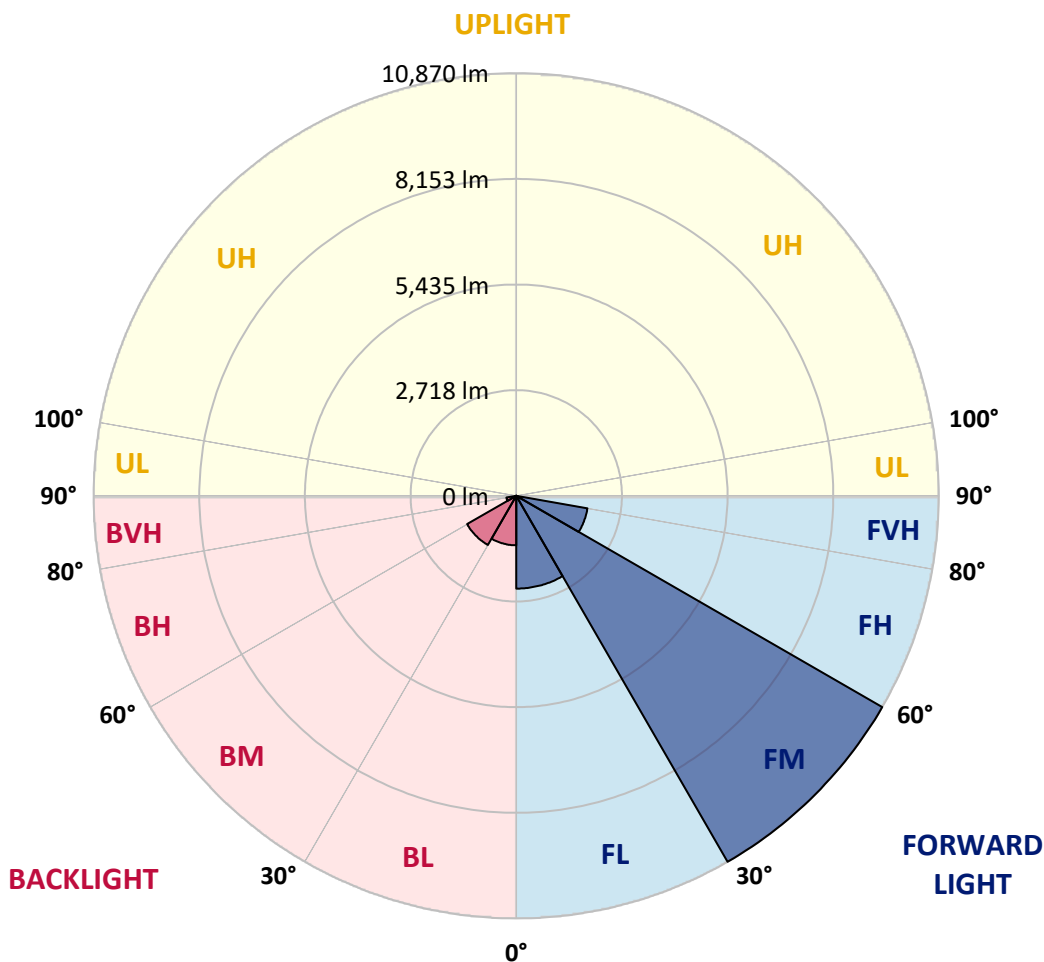


REPORT NUMBER: P654034
 CATALOG NUMBER: GLAN-SA8A-840-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2386.8 | 13.2 | | | |
| FM (30°-60°) | 10870.1 | 60.0 | | | |
| FH (60°-80°) | 1860.1 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 10.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1272.7 | 7.0 | B3/2500 | | |
| BM (30°-60°) | 1459.5 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 257.0 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.0 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P654034

CATALOG NUMBER: GLAN-SA8A-840-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6510.9 | 6510.9 | 6510.9 | 6510.9 | 6510.9 | 6510.9 | 6510.9 | 6510.9 | 6510.9 | 6510.9 | 6510.9 |
| 2.5° | 6477.1 | 6419.7 | 6477.1 | 6483.9 | 6524.4 | 6561.6 | 6537.9 | 6591.9 | 6561.6 | 6527.8 | 6517.7 |
| 5° | 5953.7 | 6031.3 | 6034.8 | 6156.3 | 6129.3 | 6352.2 | 6450.1 | 6423.1 | 6588.6 | 6578.4 | 6554.8 |
| 7.5° | 5484.2 | 5453.9 | 5494.4 | 5636.2 | 5815.2 | 6071.9 | 6213.7 | 6210.4 | 6446.7 | 6615.6 | 6598.7 |
| 10° | 5048.6 | 5045.2 | 5129.7 | 5241.1 | 5393.1 | 5663.2 | 5859.1 | 5957.1 | 6325.2 | 6581.8 | 6618.9 |
| 12.5° | 4754.8 | 4741.3 | 4832.5 | 4923.7 | 5163.5 | 5372.8 | 5622.8 | 5670.0 | 6092.1 | 6463.6 | 6524.4 |
| 15° | 4562.3 | 4592.7 | 4599.5 | 4775.1 | 4927.1 | 5203.9 | 5399.8 | 5497.8 | 5984.1 | 6369.1 | 6602.1 |
| 17.5° | 4528.6 | 4569.1 | 4572.5 | 4717.7 | 4879.8 | 5112.8 | 5285.0 | 5416.7 | 5892.9 | 6416.3 | 6605.5 |
| 20° | 4596.1 | 4572.5 | 4592.7 | 4683.9 | 4842.6 | 5065.5 | 5315.5 | 5359.4 | 5862.5 | 6440.0 | 6642.6 |
| 22.5° | 4788.6 | 4781.8 | 4731.2 | 4805.5 | 4916.9 | 5149.9 | 5386.4 | 5453.9 | 5950.3 | 6561.6 | 6673.0 |
| 25° | 5001.3 | 5038.5 | 4991.3 | 4981.1 | 5058.8 | 5288.4 | 5602.5 | 5690.3 | 6244.1 | 6781.1 | 6767.5 |
| 27.5° | 5399.8 | 5362.7 | 5362.7 | 5315.5 | 5295.2 | 5406.6 | 5835.4 | 5980.7 | 6571.7 | 7064.7 | 6875.6 |
| 30° | 5781.5 | 5822.0 | 5791.5 | 5808.5 | 5673.4 | 5663.2 | 6166.5 | 6345.4 | 7152.5 | 7497.0 | 7105.3 |
| 32.5° | 6386.0 | 6331.9 | 6382.5 | 6338.6 | 6159.7 | 5977.3 | 6615.6 | 6801.3 | 7854.9 | 7993.4 | 7449.7 |
| 35° | 6889.1 | 6865.5 | 7081.6 | 7074.8 | 6784.4 | 6605.5 | 7091.7 | 7368.7 | 8344.6 | 8587.7 | 7854.9 |
| 37.5° | 7605.0 | 7561.1 | 7807.7 | 7925.8 | 7665.8 | 7399.0 | 7773.9 | 8094.7 | 8800.5 | 9063.9 | 8270.3 |
| 40° | 8341.2 | 8452.6 | 8783.6 | 8979.4 | 8702.6 | 8348.0 | 8608.0 | 8705.9 | 9104.4 | 9374.6 | 8554.0 |
| 42.5° | 9273.3 | 9435.3 | 9773.1 | 9942.0 | 9918.2 | 9533.3 | 9455.6 | 9452.3 | 9323.9 | 9286.8 | 8763.4 |
| 45° | 10168.2 | 10107.4 | 10627.5 | 10995.6 | 11292.7 | 11181.3 | 10272.9 | 10171.6 | 9671.8 | 9418.5 | 8817.4 |
| 47.5° | 10559.9 | 10539.7 | 10894.2 | 11549.4 | 12562.5 | 12701.0 | 11461.6 | 11069.8 | 10259.4 | 9972.3 | 9111.1 |
| 50° | 10053.4 | 10158.0 | 10509.3 | 11235.3 | 12788.8 | 13845.7 | 12920.5 | 12393.6 | 10944.9 | 10647.7 | 9806.8 |
| 52.5° | 8398.6 | 8469.5 | 8803.8 | 9725.8 | 12018.8 | 14521.1 | 14318.5 | 14014.6 | 12204.5 | 11711.5 | 11019.2 |
| 54° | 6906.0 | 7095.1 | 7277.4 | 8202.8 | 10647.7 | 14146.3 | 15085.1 | 14852.1 | 13025.2 | 12596.2 | 11782.4 |
| 55° | 6014.5 | 6125.9 | 6257.6 | 7179.5 | 9698.7 | 13511.4 | 14997.3 | 15017.6 | 13575.6 | 12873.2 | 12295.7 |
| 57.5° | 4393.5 | 4471.2 | 4336.1 | 4744.7 | 6659.5 | 10971.9 | 13717.5 | 14264.5 | 14318.5 | 13288.6 | 12609.8 |
| 60° | 3356.8 | 3390.5 | 3238.5 | 3302.7 | 4140.2 | 7530.7 | 10610.6 | 11269.1 | 12917.1 | 11613.5 | 10681.5 |
| 62.5° | 2603.7 | 2610.5 | 2607.0 | 2718.5 | 2853.6 | 4430.6 | 6635.8 | 7220.1 | 8905.2 | 8246.7 | 7253.8 |
| 65° | 1918.2 | 1887.7 | 1941.8 | 2279.4 | 2434.9 | 2786.1 | 3495.2 | 3920.7 | 4839.3 | 4086.2 | 2921.1 |
| 67.5° | 1242.7 | 1252.8 | 1306.9 | 1695.3 | 2087.0 | 2137.7 | 2151.2 | 2117.4 | 2120.7 | 1168.5 | 732.8 |
| 70° | 746.3 | 763.2 | 746.3 | 959.1 | 1492.6 | 1533.1 | 1401.4 | 1367.7 | 1067.1 | 276.9 | 273.6 |
| 72.5° | 442.4 | 418.7 | 374.8 | 412.0 | 621.3 | 742.9 | 668.7 | 665.2 | 418.7 | 162.1 | 162.1 |
| 75° | 185.8 | 168.9 | 138.4 | 125.0 | 165.5 | 158.7 | 158.7 | 141.8 | 111.4 | 108.1 | 101.3 |
| 77.5° | 37.2 | 37.2 | 27.0 | 30.4 | 40.5 | 47.3 | 57.4 | 57.4 | 67.5 | 67.5 | 64.2 |
| 80° | 0.0 | 3.4 | 10.1 | 20.3 | 30.4 | 43.9 | 50.6 | 50.6 | 57.4 | 57.4 | 47.3 |
| 82.5° | 0.0 | 3.4 | 10.1 | 20.3 | 27.0 | 40.5 | 50.6 | 50.6 | 57.4 | 60.8 | 50.6 |
| 85° | 0.0 | 3.4 | 10.1 | 16.9 | 27.0 | 33.8 | 33.8 | 30.4 | 23.6 | 20.3 | 13.5 |
| 87.5° | 0.0 | 0.0 | 3.4 | 6.7 | 3.4 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P654034

CATALOG NUMBER: GLAN-SA8A-840-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6510.9 | 6510.9 | 6510.9 | 6510.9 | 6510.9 | 6510.9 | 6510.9 | 6510.9 | 6510.9 | 6510.9 | 6510.9 |
| 2.5° | 6541.3 | 6537.9 | 6456.9 | 6325.2 | 6294.7 | 6183.3 | 6169.8 | 6102.3 | 6139.4 | 6014.5 | 6001.0 |
| 5° | 6487.2 | 6446.7 | 6348.8 | 6264.4 | 6017.9 | 5842.3 | 5703.7 | 5535.0 | 5437.0 | 5453.9 | 5389.7 |
| 7.5° | 6564.9 | 6460.2 | 6288.0 | 5994.2 | 5693.7 | 5386.4 | 5220.8 | 4876.4 | 4751.5 | 4565.7 | 4538.7 |
| 10° | 6483.9 | 6406.2 | 6139.4 | 5653.1 | 5237.7 | 4795.4 | 4407.0 | 4025.4 | 3735.0 | 3610.0 | 3583.0 |
| 12.5° | 6477.1 | 6342.1 | 5896.3 | 5355.9 | 4754.8 | 4120.0 | 3556.0 | 3079.8 | 2792.8 | 2630.7 | 2593.6 |
| 15° | 6372.4 | 6210.4 | 5622.8 | 4896.6 | 4065.9 | 3275.7 | 2661.1 | 2201.8 | 1982.3 | 1887.7 | 1914.8 |
| 17.5° | 6382.5 | 6139.4 | 5349.2 | 4410.4 | 3387.1 | 2404.4 | 1816.8 | 1580.4 | 1523.1 | 1546.7 | 1546.7 |
| 20° | 6372.4 | 5980.7 | 5018.2 | 3849.8 | 2593.6 | 1668.2 | 1333.9 | 1249.5 | 1286.6 | 1360.9 | 1344.1 |
| 22.5° | 6318.4 | 5906.4 | 4714.3 | 3258.8 | 1908.0 | 1236.0 | 1070.5 | 1073.9 | 1131.3 | 1222.5 | 1242.7 |
| 25° | 6358.9 | 5740.9 | 4329.3 | 2661.1 | 1391.4 | 986.1 | 928.7 | 952.3 | 1013.1 | 1080.7 | 1094.1 |
| 27.5° | 6328.5 | 5622.8 | 3927.5 | 2066.8 | 1016.5 | 847.6 | 844.3 | 871.3 | 898.3 | 948.9 | 948.9 |
| 30° | 6362.3 | 5514.7 | 3532.4 | 1536.5 | 837.5 | 776.7 | 763.2 | 783.5 | 810.5 | 820.6 | 817.2 |
| 32.5° | 6487.2 | 5433.6 | 3076.5 | 1148.2 | 739.6 | 709.1 | 709.1 | 709.1 | 705.8 | 719.3 | 722.7 |
| 35° | 6760.8 | 5447.2 | 2674.6 | 888.2 | 675.4 | 651.8 | 641.6 | 628.1 | 621.3 | 628.1 | 631.5 |
| 37.5° | 7057.9 | 5440.3 | 2259.3 | 756.5 | 628.1 | 607.9 | 584.2 | 564.0 | 560.6 | 567.3 | 557.2 |
| 40° | 7189.6 | 5504.5 | 1874.3 | 678.8 | 584.2 | 560.6 | 523.4 | 506.5 | 509.9 | 516.7 | 509.9 |
| 42.5° | 7368.7 | 5524.8 | 1624.3 | 618.0 | 543.7 | 506.5 | 482.9 | 462.6 | 459.3 | 469.4 | 466.0 |
| 45° | 7365.2 | 5410.0 | 1360.9 | 584.2 | 506.5 | 466.0 | 435.6 | 418.7 | 418.7 | 425.5 | 428.9 |
| 47.5° | 7581.4 | 5393.1 | 1168.5 | 553.8 | 479.5 | 439.0 | 401.8 | 388.4 | 385.0 | 385.0 | 378.2 |
| 50° | 8084.5 | 5629.5 | 1019.9 | 520.1 | 445.7 | 408.6 | 378.2 | 361.4 | 347.8 | 341.1 | 337.7 |
| 52.5° | 9067.2 | 6365.7 | 905.0 | 479.5 | 408.6 | 378.2 | 351.2 | 337.7 | 320.8 | 303.9 | 300.6 |
| 54° | 10019.6 | 7125.5 | 898.3 | 445.7 | 378.2 | 357.9 | 334.3 | 327.6 | 307.3 | 283.7 | 276.9 |
| 55° | 10448.5 | 7567.9 | 921.9 | 418.7 | 357.9 | 344.5 | 324.2 | 317.5 | 297.2 | 270.1 | 266.8 |
| 57.5° | 10803.1 | 7740.1 | 908.4 | 347.8 | 324.2 | 320.8 | 303.9 | 293.8 | 270.1 | 233.0 | 226.2 |
| 60° | 8695.8 | 5852.4 | 651.8 | 307.3 | 297.2 | 290.4 | 276.9 | 270.1 | 239.8 | 199.2 | 195.9 |
| 62.5° | 5494.4 | 3366.9 | 415.4 | 270.1 | 260.0 | 249.9 | 233.0 | 226.2 | 199.2 | 158.7 | 148.6 |
| 65° | 2340.3 | 1394.7 | 280.3 | 239.8 | 222.9 | 206.0 | 192.5 | 182.3 | 158.7 | 118.2 | 114.8 |
| 67.5° | 607.9 | 496.4 | 233.0 | 209.4 | 185.8 | 162.1 | 152.0 | 135.1 | 108.1 | 81.1 | 77.7 |
| 70° | 273.6 | 249.9 | 195.9 | 175.6 | 148.6 | 125.0 | 111.4 | 94.5 | 70.9 | 54.0 | 50.6 |
| 72.5° | 162.1 | 158.7 | 148.6 | 131.7 | 111.4 | 94.5 | 81.1 | 64.2 | 47.3 | 30.4 | 30.4 |
| 75° | 101.3 | 97.9 | 101.3 | 91.2 | 77.7 | 70.9 | 60.8 | 43.9 | 27.0 | 13.5 | 13.5 |
| 77.5° | 60.8 | 60.8 | 60.8 | 57.4 | 54.0 | 54.0 | 43.9 | 27.0 | 13.5 | 3.4 | 3.4 |
| 80° | 47.3 | 47.3 | 50.6 | 47.3 | 47.3 | 47.3 | 37.2 | 20.3 | 6.7 | 0.0 | 0.0 |
| 82.5° | 47.3 | 50.6 | 57.4 | 54.0 | 47.3 | 40.5 | 33.8 | 20.3 | 6.7 | 0.0 | 0.0 |
| 85° | 13.5 | 10.1 | 16.9 | 23.6 | 33.8 | 30.4 | 23.6 | 16.9 | 6.7 | 0.0 | 0.0 |
| 87.5° | 6.7 | 6.7 | 6.7 | 6.7 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 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)