

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: P653543

Luminaire Tested: **GLAN-SA8D-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8D-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30722.6 lumens
Efficiency: N/A
Efficacy: 62.3 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

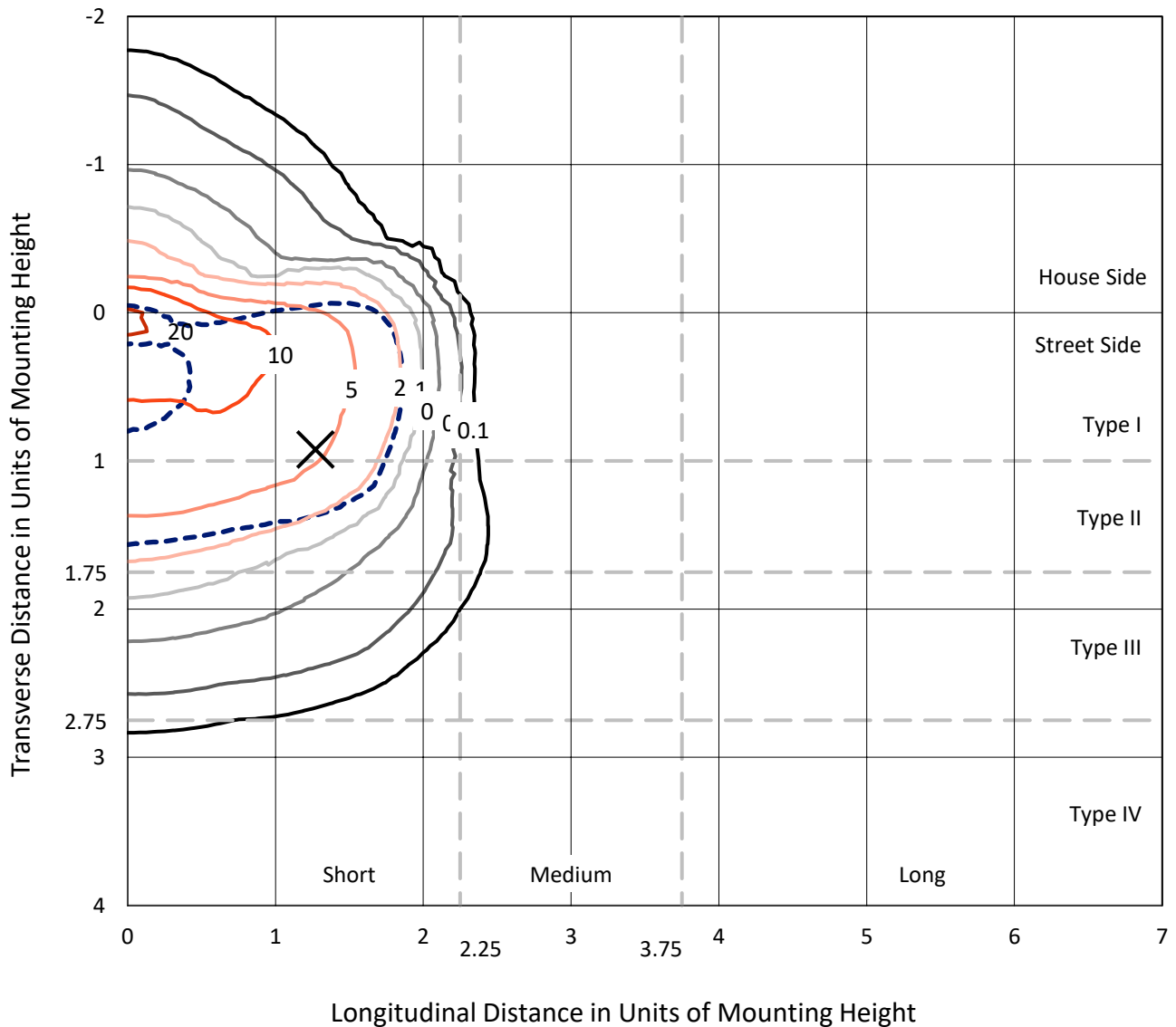
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P653543
 CATALOG NUMBER: GLAN-SA8D-840-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

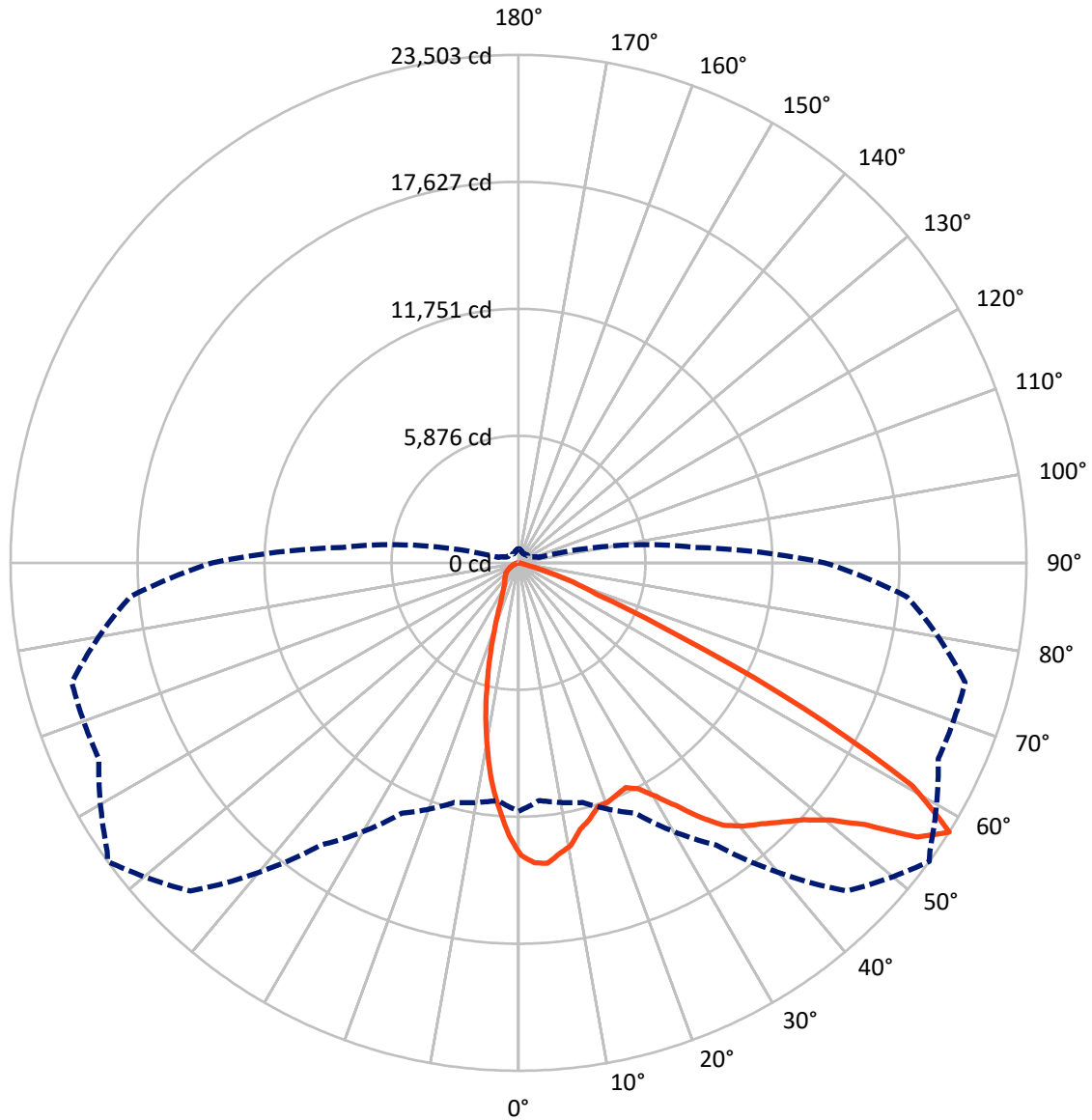
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 fc
 Type II - Short - N/A

REPORT NUMBER: P653543
CATALOG NUMBER: GLAN-SA8D-840-U-SL3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P653543
 CATALOG NUMBER: GLAN-SA8D-840-U-SL3-GRSBK

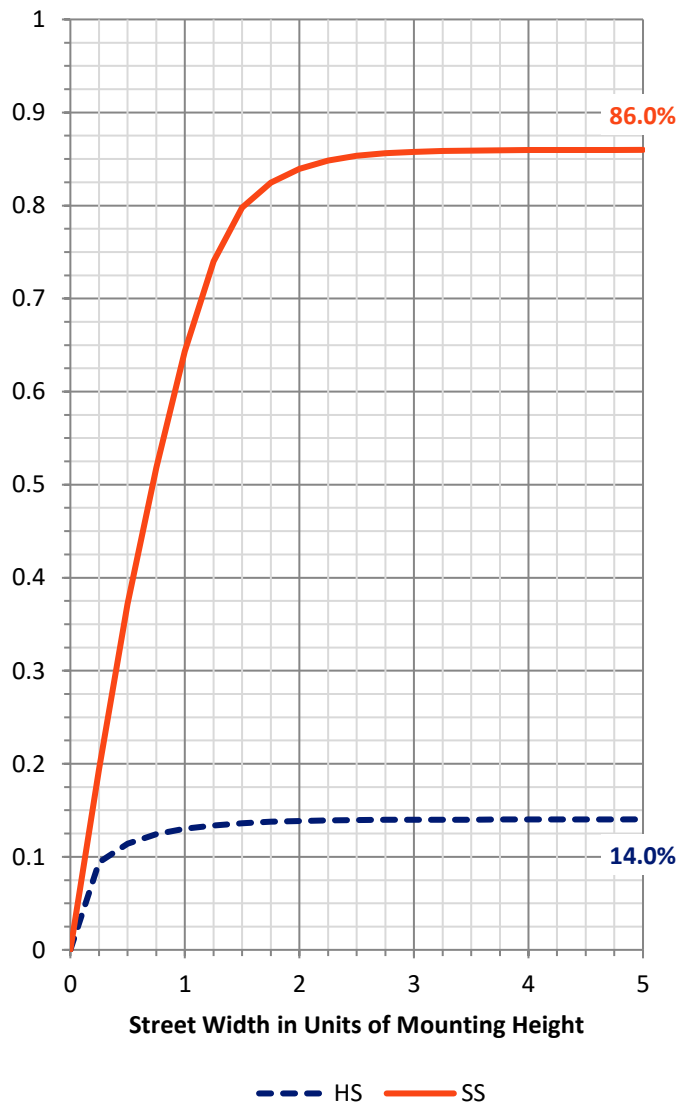
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4341.6 | 0.0 | 4341.6 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 26381.0 | 0.0 | 26381.0 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 30722.6 | 0.0 | 30722.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1132.5 | 3.7 |
| 10°-20° | 2417.9 | 7.9 |
| 20°-30° | 3204.2 | 10.4 |
| 30°-40° | 4656.6 | 15.2 |
| 40°-50° | 6905.2 | 22.5 |
| 50°-60° | 8634.6 | 28.1 |
| 60°-70° | 3406.0 | 11.1 |
| 70°-80° | 339.1 | 1.1 |
| 80°-90° | 26.4 | 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° | 30722.6 | 100.0 |
| 0°-180° | 30722.6 | 100.0 |

Coefficient of Utilization

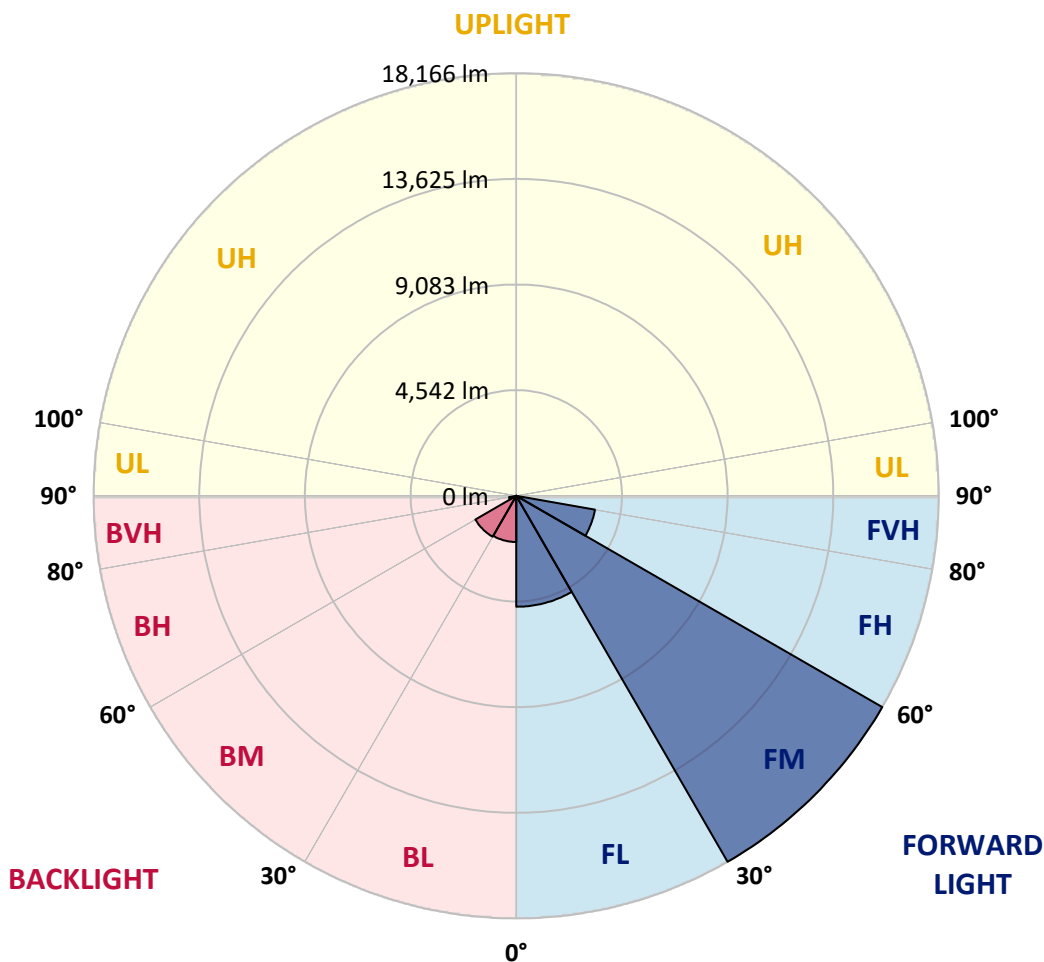


REPORT NUMBER: P653543
 CATALOG NUMBER: GLAN-SA8D-840-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4769.0 | 15.5 | | | |
| FM (30°-60°) | 18166.2 | 59.1 | | | |
| FH (60°-80°) | 3433.8 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 12.0 | 0.0 | | | G1/100 |
| BL (0°-30°) | 1985.6 | 6.5 | B3/2500 | | |
| BM (30°-60°) | 2030.3 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 311.3 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 14.4 | 0.0 | | | G1/100 |
| 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: P653543

CATALOG NUMBER: GLAN-SA8D-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13533.7 | 13533.7 | 13533.7 | 13533.7 | 13533.7 | 13533.7 | 13533.7 | 13533.7 | 13533.7 | 13533.7 | 13533.7 |
| 2.5° | 14322.1 | 14173.5 | 14185.0 | 14133.6 | 14065.0 | 14116.4 | 13893.7 | 13945.0 | 13939.3 | 13636.6 | 13436.6 |
| 5° | 13962.2 | 14122.2 | 13956.5 | 14093.6 | 13962.2 | 14105.0 | 13967.9 | 13865.1 | 13699.4 | 13476.6 | 13105.2 |
| 7.5° | 13350.9 | 13196.6 | 13242.4 | 13413.7 | 13442.3 | 13762.2 | 13590.8 | 13722.3 | 13653.6 | 13213.8 | 12705.3 |
| 10° | 12122.6 | 12088.4 | 12316.9 | 12545.4 | 12825.3 | 13168.1 | 13299.5 | 13225.2 | 13173.8 | 13008.1 | 12328.3 |
| 12.5° | 11180.0 | 11277.1 | 11271.4 | 11648.4 | 12122.6 | 12316.9 | 12659.7 | 12648.2 | 12933.8 | 12625.3 | 11974.1 |
| 15° | 10283.1 | 10334.5 | 10574.5 | 10808.7 | 11334.2 | 11888.4 | 12311.1 | 12368.3 | 12711.0 | 12494.0 | 11699.9 |
| 17.5° | 9734.7 | 9660.4 | 9849.0 | 10128.8 | 10665.9 | 11391.4 | 11859.9 | 11996.9 | 12465.4 | 12419.7 | 11385.7 |
| 20° | 9192.0 | 9192.0 | 9346.2 | 9677.6 | 10168.9 | 10985.8 | 11819.8 | 11779.9 | 12465.4 | 12334.0 | 11048.6 |
| 22.5° | 9009.1 | 9100.5 | 9140.6 | 9391.9 | 9974.6 | 10677.3 | 11648.4 | 11722.7 | 12562.5 | 12294.0 | 10900.1 |
| 25° | 9260.5 | 9140.6 | 9151.9 | 9351.9 | 9900.3 | 10528.7 | 11522.8 | 11688.5 | 12739.6 | 12494.0 | 10780.1 |
| 27.5° | 9300.5 | 9420.5 | 9454.8 | 9591.9 | 9957.4 | 10574.5 | 11837.0 | 12174.1 | 13179.5 | 12962.4 | 10814.4 |
| 30° | 9649.0 | 9769.0 | 9763.3 | 9997.5 | 10248.8 | 10945.8 | 12539.6 | 12608.2 | 14087.8 | 13550.9 | 11025.8 |
| 32.5° | 10071.7 | 10197.4 | 10237.4 | 10511.6 | 10711.6 | 11625.6 | 13396.6 | 13573.7 | 14961.9 | 14476.3 | 11579.9 |
| 35° | 10597.3 | 10551.6 | 10734.4 | 11008.6 | 11437.1 | 12619.6 | 14442.1 | 14739.1 | 15904.6 | 15676.0 | 12151.2 |
| 37.5° | 11254.3 | 11197.2 | 11374.3 | 11819.8 | 12402.6 | 13796.5 | 15407.5 | 15601.7 | 16590.1 | 16790.1 | 13208.1 |
| 40° | 11717.1 | 11739.9 | 12276.9 | 12876.7 | 13493.7 | 14916.2 | 16018.8 | 16207.3 | 17069.9 | 17829.8 | 14007.9 |
| 42.5° | 12488.3 | 12631.1 | 13276.6 | 14007.9 | 14653.4 | 15756.0 | 16515.8 | 16698.6 | 17292.7 | 18663.8 | 15087.6 |
| 45° | 13608.0 | 13545.1 | 14259.2 | 15076.2 | 15790.3 | 16630.1 | 17104.3 | 17041.4 | 17424.2 | 19492.2 | 15767.4 |
| 47.5° | 15047.6 | 15059.0 | 15533.2 | 16230.1 | 16972.8 | 17389.9 | 17761.2 | 17538.4 | 17698.3 | 20366.2 | 16675.8 |
| 50° | 16030.2 | 16115.9 | 16498.7 | 17212.7 | 17584.1 | 18224.0 | 18698.1 | 18561.0 | 18509.6 | 20891.9 | 17247.1 |
| 52.5° | 16281.6 | 16538.7 | 16744.3 | 17635.5 | 18503.9 | 19515.1 | 20120.6 | 20412.0 | 19497.9 | 21068.9 | 17972.6 |
| 55° | 14384.9 | 14613.5 | 15339.0 | 16561.5 | 18852.4 | 21560.2 | 22394.3 | 22400.0 | 20789.0 | 21857.3 | 18481.1 |
| 57.5° | 11499.9 | 11037.2 | 11482.8 | 12779.6 | 15938.8 | 21474.5 | 23502.6 | 23234.1 | 21434.6 | 21394.5 | 18041.1 |
| 60° | 7952.2 | 7838.0 | 7866.5 | 8380.7 | 11031.5 | 17081.4 | 20943.3 | 21291.8 | 19737.8 | 18543.9 | 14282.1 |
| 62.5° | 6301.3 | 6204.1 | 6078.5 | 6021.3 | 6849.7 | 10643.0 | 14773.4 | 15264.7 | 13802.2 | 12025.5 | 8466.4 |
| 65° | 4935.9 | 4878.7 | 4895.9 | 5124.4 | 5118.7 | 6038.5 | 8078.0 | 7878.0 | 6307.0 | 4661.7 | 2662.2 |
| 67.5° | 3330.6 | 3416.3 | 3484.9 | 4176.1 | 4530.3 | 4204.7 | 3901.9 | 3787.6 | 2050.9 | 862.6 | 588.4 |
| 70° | 1873.8 | 1885.3 | 1959.5 | 2610.8 | 3439.1 | 3262.1 | 2690.8 | 2690.8 | 1022.6 | 314.2 | 337.1 |
| 72.5° | 1022.6 | 988.3 | 919.8 | 1125.4 | 1531.0 | 1553.9 | 1199.7 | 1045.4 | 302.8 | 205.6 | 188.6 |
| 75° | 497.0 | 491.3 | 422.8 | 348.5 | 331.4 | 274.3 | 211.3 | 194.3 | 137.1 | 131.4 | 114.3 |
| 77.5° | 102.9 | 97.1 | 51.4 | 51.4 | 57.1 | 62.8 | 80.0 | 80.0 | 97.1 | 97.1 | 80.0 |
| 80° | 0.0 | 0.0 | 5.7 | 22.9 | 40.0 | 57.1 | 68.5 | 68.5 | 80.0 | 80.0 | 62.8 |
| 82.5° | 0.0 | 0.0 | 5.7 | 17.2 | 34.3 | 51.4 | 62.8 | 68.5 | 80.0 | 85.7 | 68.5 |
| 85° | 0.0 | 0.0 | 0.0 | 11.4 | 28.6 | 40.0 | 34.3 | 34.3 | 28.6 | 22.9 | 11.4 |
| 87.5° | 0.0 | 0.0 | 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 |



REPORT NUMBER: P653543

CATALOG NUMBER: GLAN-SA8D-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13533.7 | 13533.7 | 13533.7 | 13533.7 | 13533.7 | 13533.7 | 13533.7 | 13533.7 | 13533.7 | 13533.7 | 13533.7 |
| 2.5° | 13333.7 | 13322.4 | 13059.6 | 12911.0 | 12642.5 | 12408.3 | 12219.7 | 12082.6 | 12082.6 | 11996.9 | 11917.0 |
| 5° | 12956.7 | 12859.6 | 12299.7 | 11939.8 | 11431.4 | 11054.4 | 10797.3 | 10597.3 | 10283.1 | 10368.8 | 10031.7 |
| 7.5° | 12488.3 | 12242.6 | 11499.9 | 10951.5 | 10248.8 | 9711.8 | 9163.4 | 8677.8 | 8209.3 | 7998.0 | 8112.2 |
| 10° | 11985.5 | 11557.1 | 10557.3 | 9689.0 | 8814.9 | 7832.3 | 7192.5 | 6415.5 | 5935.6 | 5907.1 | 5781.4 |
| 12.5° | 11454.3 | 10968.7 | 9751.8 | 8552.1 | 7403.8 | 6221.3 | 5244.4 | 4518.9 | 4193.2 | 3833.3 | 3901.9 |
| 15° | 11054.4 | 10334.5 | 8854.9 | 7409.5 | 5884.2 | 4690.3 | 3707.6 | 3147.8 | 2839.3 | 2753.6 | 2725.0 |
| 17.5° | 10620.1 | 9849.0 | 7940.8 | 6192.7 | 4616.0 | 3376.3 | 2667.9 | 2399.4 | 2279.4 | 2279.4 | 2262.3 |
| 20° | 10168.9 | 9300.5 | 7032.5 | 5061.6 | 3462.0 | 2519.4 | 2136.6 | 2050.9 | 2045.2 | 2039.5 | 2039.5 |
| 22.5° | 9871.7 | 8672.1 | 6209.9 | 4021.8 | 2610.8 | 2016.6 | 1856.7 | 1822.4 | 1845.2 | 1913.8 | 1913.8 |
| 25° | 9557.5 | 8066.5 | 5301.5 | 3102.0 | 2022.4 | 1731.0 | 1639.6 | 1662.4 | 1719.6 | 1782.4 | 1759.5 |
| 27.5° | 9237.6 | 7672.4 | 4444.6 | 2433.7 | 1656.7 | 1513.9 | 1479.7 | 1531.0 | 1593.9 | 1651.1 | 1633.9 |
| 30° | 9163.4 | 7249.6 | 3633.4 | 1845.2 | 1422.5 | 1319.7 | 1342.5 | 1388.2 | 1451.1 | 1473.9 | 1496.7 |
| 32.5° | 9277.7 | 6918.2 | 2976.4 | 1513.9 | 1239.7 | 1211.1 | 1211.1 | 1234.0 | 1273.9 | 1325.4 | 1308.3 |
| 35° | 9603.3 | 6729.7 | 2353.7 | 1314.0 | 1136.9 | 1108.3 | 1102.6 | 1125.4 | 1148.3 | 1165.5 | 1148.3 |
| 37.5° | 10100.3 | 6581.2 | 1925.2 | 1165.5 | 1068.3 | 1022.6 | 1011.1 | 1005.5 | 1028.3 | 1034.0 | 1045.4 |
| 40° | 10734.4 | 6661.1 | 1633.9 | 1074.0 | 999.8 | 948.3 | 914.1 | 914.1 | 914.1 | 931.2 | 936.9 |
| 42.5° | 11419.9 | 6769.7 | 1411.0 | 1022.6 | 936.9 | 874.1 | 839.8 | 828.4 | 839.8 | 862.6 | 856.9 |
| 45° | 12139.8 | 6981.1 | 1268.2 | 942.6 | 879.8 | 799.8 | 754.1 | 742.7 | 771.2 | 816.9 | 811.2 |
| 47.5° | 12813.9 | 7283.9 | 1159.7 | 891.2 | 822.7 | 748.4 | 691.2 | 679.9 | 731.2 | 794.1 | 799.8 |
| 50° | 13488.0 | 7809.4 | 1119.7 | 851.2 | 782.6 | 696.9 | 645.6 | 634.1 | 691.2 | 771.2 | 788.4 |
| 52.5° | 14265.0 | 8375.0 | 1091.1 | 799.8 | 737.0 | 657.0 | 599.9 | 588.4 | 651.3 | 754.1 | 759.8 |
| 55° | 14773.4 | 8854.9 | 1068.3 | 708.4 | 651.3 | 594.2 | 548.4 | 542.7 | 611.2 | 702.7 | 725.5 |
| 57.5° | 14179.3 | 8186.5 | 988.3 | 617.0 | 554.1 | 525.5 | 485.6 | 485.6 | 542.7 | 628.4 | 645.6 |
| 60° | 10751.6 | 5387.2 | 702.7 | 497.0 | 468.4 | 451.3 | 434.2 | 434.2 | 479.9 | 542.7 | 548.4 |
| 62.5° | 6295.6 | 2902.1 | 451.3 | 399.9 | 399.9 | 382.7 | 354.2 | 354.2 | 399.9 | 434.2 | 439.9 |
| 65° | 1868.1 | 931.2 | 365.6 | 342.8 | 337.1 | 308.5 | 280.0 | 274.3 | 308.5 | 325.6 | 319.9 |
| 67.5° | 537.0 | 428.5 | 302.8 | 285.6 | 280.0 | 234.2 | 217.1 | 211.3 | 217.1 | 205.6 | 200.0 |
| 70° | 319.9 | 291.3 | 234.2 | 239.9 | 211.3 | 171.4 | 154.2 | 148.5 | 137.1 | 120.0 | 108.6 |
| 72.5° | 177.1 | 177.1 | 171.4 | 182.8 | 148.5 | 114.3 | 97.1 | 80.0 | 62.8 | 51.4 | 45.7 |
| 75° | 108.6 | 114.3 | 120.0 | 125.6 | 97.1 | 74.3 | 62.8 | 40.0 | 22.9 | 11.4 | 11.4 |
| 77.5° | 74.3 | 80.0 | 85.7 | 91.4 | 80.0 | 68.5 | 51.4 | 28.6 | 5.7 | 0.0 | 0.0 |
| 80° | 57.1 | 62.8 | 74.3 | 80.0 | 85.7 | 91.4 | 68.5 | 28.6 | 5.7 | 0.0 | 0.0 |
| 82.5° | 62.8 | 68.5 | 85.7 | 80.0 | 80.0 | 80.0 | 62.8 | 28.6 | 5.7 | 0.0 | 0.0 |
| 85° | 11.4 | 17.2 | 28.6 | 28.6 | 40.0 | 51.4 | 40.0 | 11.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 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)