

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: P654588

Luminaire Tested: **GLAN-SA9B-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654588
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-SA9B-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA 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: 25370.4 lumens
Efficiency: N/A
Efficacy: 69.7 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

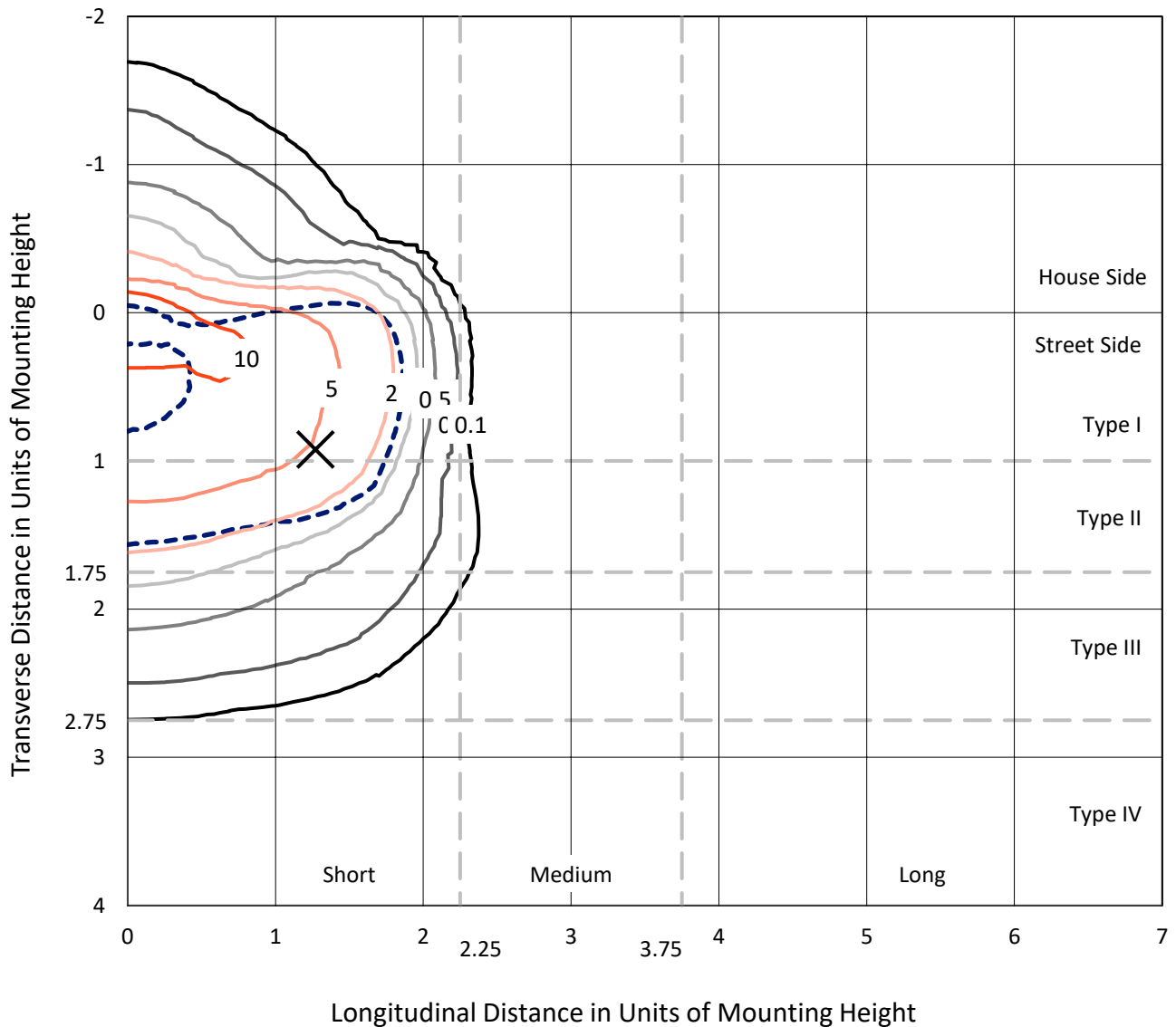
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

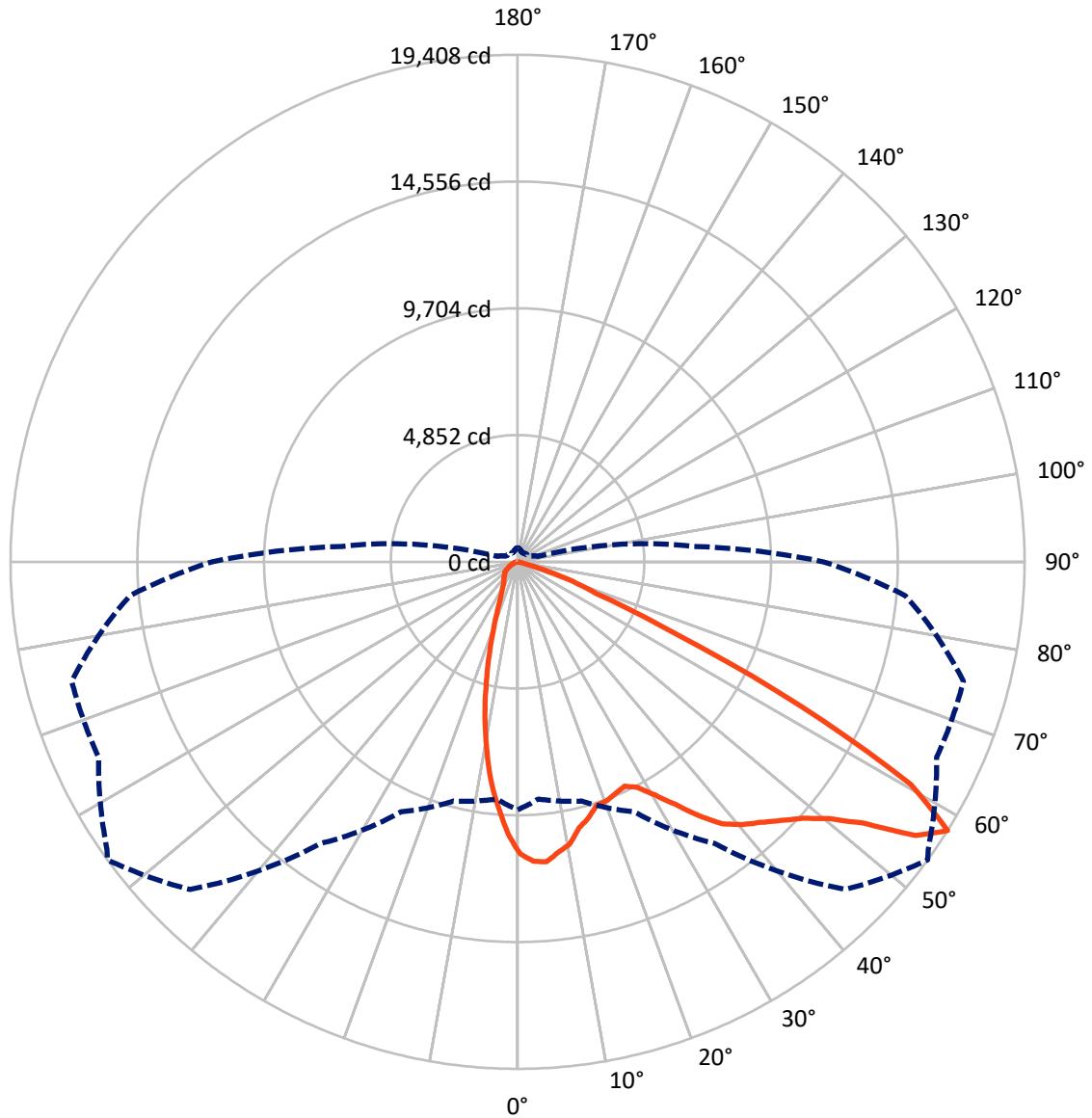
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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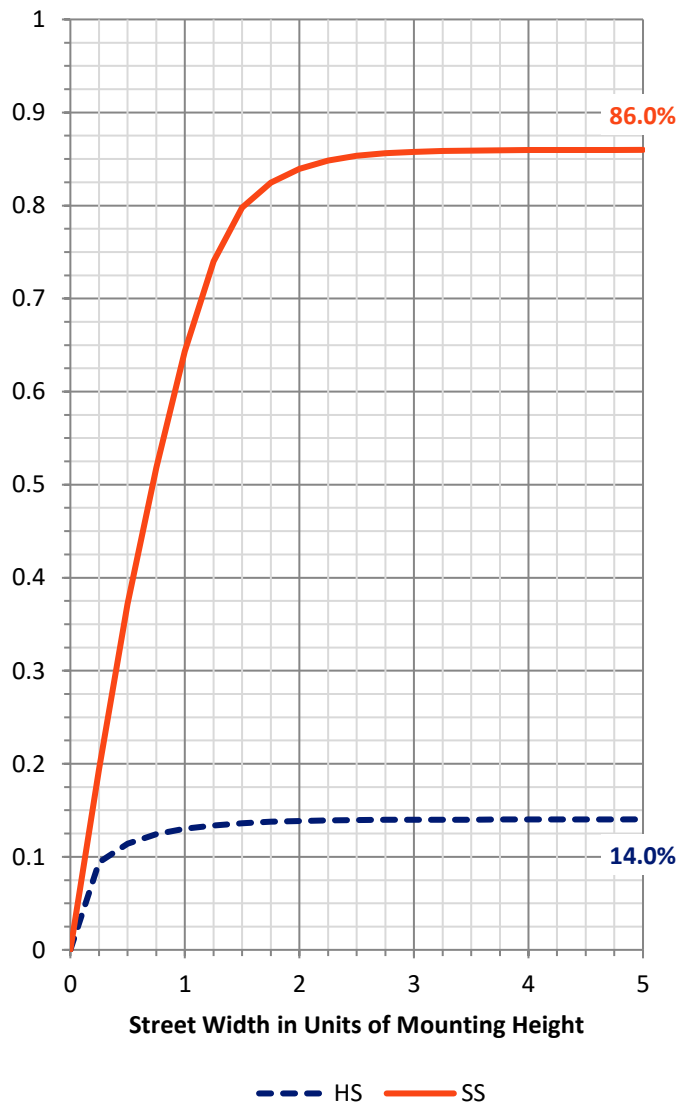
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3585.3 | 0.0 | 3585.3 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 21785.2 | 0.0 | 21785.2 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 25370.4 | 0.0 | 25370.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 935.2 | 3.7 |
| 10°-20° | 1996.7 | 7.9 |
| 20°-30° | 2646.0 | 10.4 |
| 30°-40° | 3845.4 | 15.2 |
| 40°-50° | 5702.2 | 22.5 |
| 50°-60° | 7130.4 | 28.1 |
| 60°-70° | 2812.6 | 11.1 |
| 70°-80° | 280.0 | 1.1 |
| 80°-90° | 21.8 | 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° | 25370.4 | 100.0 |
| 0°-180° | 25370.4 | 100.0 |

Coefficient of Utilization



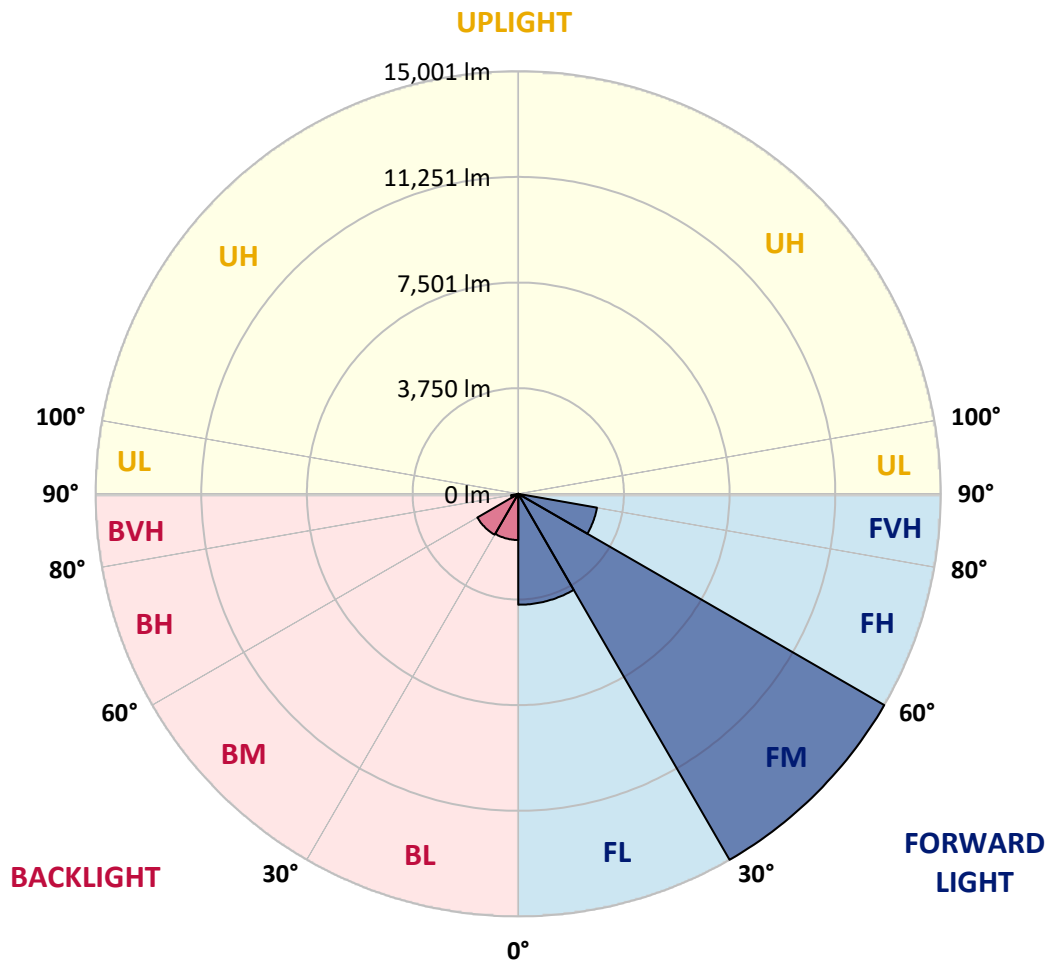
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3938.2 | 15.5 | | | |
| FM (30°-60°) | 15001.5 | 59.1 | | | |
| FH (60°-80°) | 2835.6 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 9.9 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1639.7 | 6.5 | B3/2500 | | |
| BM (30°-60°) | 1676.6 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 257.1 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.9 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11176.0 | 11176.0 | 11176.0 | 11176.0 | 11176.0 | 11176.0 | 11176.0 | 11176.0 | 11176.0 | 11176.0 | 11176.0 |
| 2.5° | 11827.1 | 11704.4 | 11713.9 | 11671.4 | 11614.8 | 11657.2 | 11473.3 | 11515.7 | 11510.9 | 11260.9 | 11095.8 |
| 5° | 11529.9 | 11662.0 | 11525.1 | 11638.3 | 11529.9 | 11647.8 | 11534.6 | 11449.6 | 11312.8 | 11128.9 | 10822.2 |
| 7.5° | 11025.1 | 10897.7 | 10935.4 | 11077.0 | 11100.5 | 11364.8 | 11223.2 | 11331.7 | 11275.1 | 10911.8 | 10492.0 |
| 10° | 10010.8 | 9982.5 | 10171.1 | 10359.9 | 10591.0 | 10874.1 | 10982.6 | 10921.3 | 10878.8 | 10742.0 | 10180.6 |
| 12.5° | 9232.3 | 9312.6 | 9307.9 | 9619.2 | 10010.8 | 10171.1 | 10454.2 | 10444.8 | 10680.7 | 10426.0 | 9888.1 |
| 15° | 8491.7 | 8534.1 | 8732.3 | 8925.7 | 9359.7 | 9817.3 | 10166.4 | 10213.6 | 10496.7 | 10317.4 | 9661.7 |
| 17.5° | 8038.8 | 7977.5 | 8133.1 | 8364.3 | 8807.8 | 9406.9 | 9793.8 | 9907.0 | 10293.8 | 10256.1 | 9402.2 |
| 20° | 7590.6 | 7590.6 | 7718.0 | 7991.6 | 8397.4 | 9072.0 | 9760.7 | 9727.7 | 10293.8 | 10185.4 | 9123.8 |
| 22.5° | 7439.7 | 7515.2 | 7548.1 | 7755.8 | 8236.9 | 8817.2 | 9619.2 | 9680.5 | 10374.1 | 10152.3 | 9001.2 |
| 25° | 7647.2 | 7548.1 | 7557.6 | 7722.7 | 8175.6 | 8694.6 | 9515.4 | 9652.2 | 10520.2 | 10317.4 | 8902.2 |
| 27.5° | 7680.3 | 7779.3 | 7807.7 | 7920.9 | 8222.8 | 8732.3 | 9774.9 | 10053.2 | 10883.5 | 10704.2 | 8930.4 |
| 30° | 7968.1 | 8067.1 | 8062.4 | 8255.8 | 8463.4 | 9039.0 | 10355.1 | 10411.7 | 11633.6 | 11190.2 | 9105.0 |
| 32.5° | 8317.2 | 8420.9 | 8454.0 | 8680.4 | 8845.6 | 9600.4 | 11062.8 | 11209.0 | 12355.5 | 11954.4 | 9562.6 |
| 35° | 8751.2 | 8713.4 | 8864.4 | 9090.9 | 9444.7 | 10421.2 | 11926.1 | 12171.5 | 13133.8 | 12945.1 | 10034.4 |
| 37.5° | 9293.7 | 9246.5 | 9392.8 | 9760.7 | 10242.0 | 11393.0 | 12723.4 | 12883.8 | 13700.0 | 13865.1 | 10907.1 |
| 40° | 9675.8 | 9694.7 | 10138.2 | 10633.5 | 11143.0 | 12317.7 | 13228.2 | 13383.8 | 14096.3 | 14723.6 | 11567.6 |
| 42.5° | 10312.7 | 10430.7 | 10963.7 | 11567.6 | 12100.6 | 13011.2 | 13638.6 | 13789.5 | 14280.2 | 15412.4 | 12459.2 |
| 45° | 11237.4 | 11185.5 | 11775.2 | 12449.7 | 13039.5 | 13732.9 | 14124.5 | 14072.6 | 14388.8 | 16096.5 | 13020.6 |
| 47.5° | 12426.2 | 12435.6 | 12827.2 | 13402.8 | 14016.0 | 14360.4 | 14667.0 | 14483.0 | 14615.2 | 16818.3 | 13770.7 |
| 50° | 13237.6 | 13308.4 | 13624.5 | 14214.2 | 14520.8 | 15049.2 | 15440.8 | 15327.6 | 15285.1 | 17252.3 | 14242.5 |
| 52.5° | 13445.2 | 13657.5 | 13827.3 | 14563.3 | 15280.4 | 16115.3 | 16615.5 | 16856.0 | 16101.2 | 17398.5 | 14841.6 |
| 55° | 11879.0 | 12067.7 | 12666.8 | 13676.3 | 15568.1 | 17804.3 | 18493.0 | 18497.8 | 17167.4 | 18049.6 | 15261.5 |
| 57.5° | 9496.6 | 9114.4 | 9482.4 | 10553.3 | 13162.2 | 17733.5 | 19408.3 | 19186.5 | 17700.4 | 17667.5 | 14898.2 |
| 60° | 6566.9 | 6472.6 | 6496.1 | 6920.8 | 9109.7 | 14105.7 | 17294.7 | 17582.5 | 16299.3 | 15313.3 | 11794.0 |
| 62.5° | 5203.5 | 5123.3 | 5019.5 | 4972.3 | 5656.4 | 8788.9 | 12199.7 | 12605.5 | 11397.7 | 9930.6 | 6991.5 |
| 65° | 4076.0 | 4028.8 | 4043.0 | 4231.7 | 4227.0 | 4986.5 | 6670.7 | 6505.6 | 5208.2 | 3849.6 | 2198.4 |
| 67.5° | 2750.4 | 2821.1 | 2877.7 | 3448.6 | 3741.1 | 3472.2 | 3222.1 | 3127.8 | 1693.6 | 712.3 | 485.9 |
| 70° | 1547.4 | 1556.8 | 1618.2 | 2156.0 | 2840.0 | 2693.7 | 2222.0 | 2222.0 | 844.4 | 259.4 | 278.4 |
| 72.5° | 844.4 | 816.1 | 759.5 | 929.4 | 1264.4 | 1283.2 | 990.7 | 863.3 | 250.0 | 169.8 | 155.7 |
| 75° | 410.4 | 405.7 | 349.1 | 287.8 | 273.7 | 226.5 | 174.6 | 160.4 | 113.2 | 108.5 | 94.4 |
| 77.5° | 84.9 | 80.2 | 42.5 | 42.5 | 47.2 | 51.9 | 66.0 | 66.0 | 80.2 | 80.2 | 66.0 |
| 80° | 0.0 | 0.0 | 4.7 | 18.8 | 33.1 | 47.2 | 56.6 | 56.6 | 66.0 | 66.0 | 51.9 |
| 82.5° | 0.0 | 0.0 | 4.7 | 14.1 | 28.3 | 42.5 | 51.9 | 56.6 | 66.0 | 70.7 | 56.6 |
| 85° | 0.0 | 0.0 | 0.0 | 9.4 | 23.5 | 33.1 | 28.3 | 28.3 | 23.5 | 18.8 | 9.4 |
| 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 |



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CATALOG NUMBER: GLAN-SA9B-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11176.0 | 11176.0 | 11176.0 | 11176.0 | 11176.0 | 11176.0 | 11176.0 | 11176.0 | 11176.0 | 11176.0 | 11176.0 |
| 2.5° | 11010.9 | 11001.5 | 10784.5 | 10661.8 | 10440.1 | 10246.7 | 10091.0 | 9977.7 | 9977.7 | 9907.0 | 9841.0 |
| 5° | 10699.5 | 10619.3 | 10157.0 | 9859.8 | 9440.0 | 9128.6 | 8916.3 | 8751.2 | 8491.7 | 8562.5 | 8284.1 |
| 7.5° | 10312.7 | 10109.8 | 9496.6 | 9043.7 | 8463.4 | 8019.9 | 7567.1 | 7166.1 | 6779.2 | 6604.6 | 6699.0 |
| 10° | 9897.6 | 9543.8 | 8718.1 | 8001.1 | 7279.3 | 6467.9 | 5939.5 | 5297.9 | 4901.6 | 4878.1 | 4774.2 |
| 12.5° | 9458.8 | 9057.8 | 8053.0 | 7062.3 | 6114.0 | 5137.5 | 4330.7 | 3731.6 | 3462.7 | 3165.5 | 3222.1 |
| 15° | 9128.6 | 8534.1 | 7312.3 | 6118.8 | 4859.1 | 3873.1 | 3061.7 | 2599.4 | 2344.6 | 2273.9 | 2250.3 |
| 17.5° | 8770.0 | 8133.1 | 6557.4 | 5113.9 | 3811.8 | 2788.1 | 2203.1 | 1981.4 | 1882.3 | 1882.3 | 1868.2 |
| 20° | 8397.4 | 7680.3 | 5807.4 | 4179.8 | 2858.9 | 2080.5 | 1764.4 | 1693.6 | 1688.9 | 1684.2 | 1684.2 |
| 22.5° | 8152.1 | 7161.4 | 5128.1 | 3321.2 | 2156.0 | 1665.3 | 1533.2 | 1504.9 | 1523.8 | 1580.4 | 1580.4 |
| 25° | 7892.5 | 6661.3 | 4377.9 | 2561.7 | 1670.1 | 1429.4 | 1353.9 | 1372.8 | 1420.0 | 1471.9 | 1453.0 |
| 27.5° | 7628.4 | 6335.8 | 3670.3 | 2009.7 | 1368.1 | 1250.1 | 1221.9 | 1264.4 | 1316.2 | 1363.4 | 1349.2 |
| 30° | 7567.1 | 5986.7 | 3000.4 | 1523.8 | 1174.7 | 1089.8 | 1108.6 | 1146.4 | 1198.3 | 1217.2 | 1236.0 |
| 32.5° | 7661.4 | 5713.0 | 2457.9 | 1250.1 | 1023.7 | 1000.1 | 1000.1 | 1019.0 | 1052.0 | 1094.5 | 1080.3 |
| 35° | 7930.3 | 5557.3 | 1943.6 | 1085.1 | 938.8 | 915.2 | 910.5 | 929.4 | 948.2 | 962.4 | 948.2 |
| 37.5° | 8340.7 | 5434.7 | 1589.8 | 962.4 | 882.2 | 844.4 | 835.0 | 830.3 | 849.2 | 853.9 | 863.3 |
| 40° | 8864.4 | 5500.7 | 1349.2 | 886.9 | 825.6 | 783.1 | 754.8 | 754.8 | 754.8 | 769.0 | 773.7 |
| 42.5° | 9430.5 | 5590.4 | 1165.3 | 844.4 | 773.7 | 721.8 | 693.5 | 684.1 | 693.5 | 712.3 | 707.6 |
| 45° | 10024.9 | 5764.9 | 1047.3 | 778.4 | 726.5 | 660.4 | 622.8 | 613.3 | 636.9 | 674.7 | 669.9 |
| 47.5° | 10581.6 | 6014.9 | 957.6 | 736.0 | 679.4 | 618.0 | 570.9 | 561.4 | 603.8 | 655.7 | 660.4 |
| 50° | 11138.3 | 6449.0 | 924.7 | 702.9 | 646.3 | 575.6 | 533.1 | 523.7 | 570.9 | 636.9 | 651.0 |
| 52.5° | 11779.9 | 6916.0 | 901.0 | 660.4 | 608.5 | 542.5 | 495.3 | 485.9 | 537.8 | 622.8 | 627.5 |
| 55° | 12199.7 | 7312.3 | 882.2 | 585.0 | 537.8 | 490.6 | 452.9 | 448.2 | 504.8 | 580.3 | 599.1 |
| 57.5° | 11709.1 | 6760.4 | 816.1 | 509.5 | 457.6 | 434.0 | 401.0 | 401.0 | 448.2 | 518.9 | 533.1 |
| 60° | 8878.5 | 4448.7 | 580.3 | 410.4 | 386.9 | 372.7 | 358.5 | 358.5 | 396.3 | 448.2 | 452.9 |
| 62.5° | 5198.8 | 2396.5 | 372.7 | 330.3 | 330.3 | 316.0 | 292.5 | 292.5 | 330.3 | 358.5 | 363.2 |
| 65° | 1542.6 | 769.0 | 301.9 | 283.1 | 278.4 | 254.7 | 231.2 | 226.5 | 254.7 | 268.9 | 264.2 |
| 67.5° | 443.5 | 353.8 | 250.0 | 235.9 | 231.2 | 193.4 | 179.3 | 174.6 | 179.3 | 169.8 | 165.1 |
| 70° | 264.2 | 240.6 | 193.4 | 198.1 | 174.6 | 141.5 | 127.4 | 122.6 | 113.2 | 99.1 | 89.7 |
| 72.5° | 146.2 | 146.2 | 141.5 | 151.0 | 122.6 | 94.4 | 80.2 | 66.0 | 51.9 | 42.5 | 37.8 |
| 75° | 89.7 | 94.4 | 99.1 | 103.8 | 80.2 | 61.3 | 51.9 | 33.1 | 18.8 | 9.4 | 9.4 |
| 77.5° | 61.3 | 66.0 | 70.7 | 75.5 | 66.0 | 56.6 | 42.5 | 23.5 | 4.7 | 0.0 | 0.0 |
| 80° | 47.2 | 51.9 | 61.3 | 66.0 | 70.7 | 75.5 | 56.6 | 23.5 | 4.7 | 0.0 | 0.0 |
| 82.5° | 51.9 | 56.6 | 70.7 | 66.0 | 66.0 | 66.0 | 51.9 | 23.5 | 4.7 | 0.0 | 0.0 |
| 85° | 9.4 | 14.1 | 23.5 | 23.5 | 33.1 | 42.5 | 33.1 | 9.4 | 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)