

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: P533913

Luminaire Tested: **GLAN-SA9B-760-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9B-760-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31372 lumens
Efficiency: N/A
Efficacy: 86.2 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

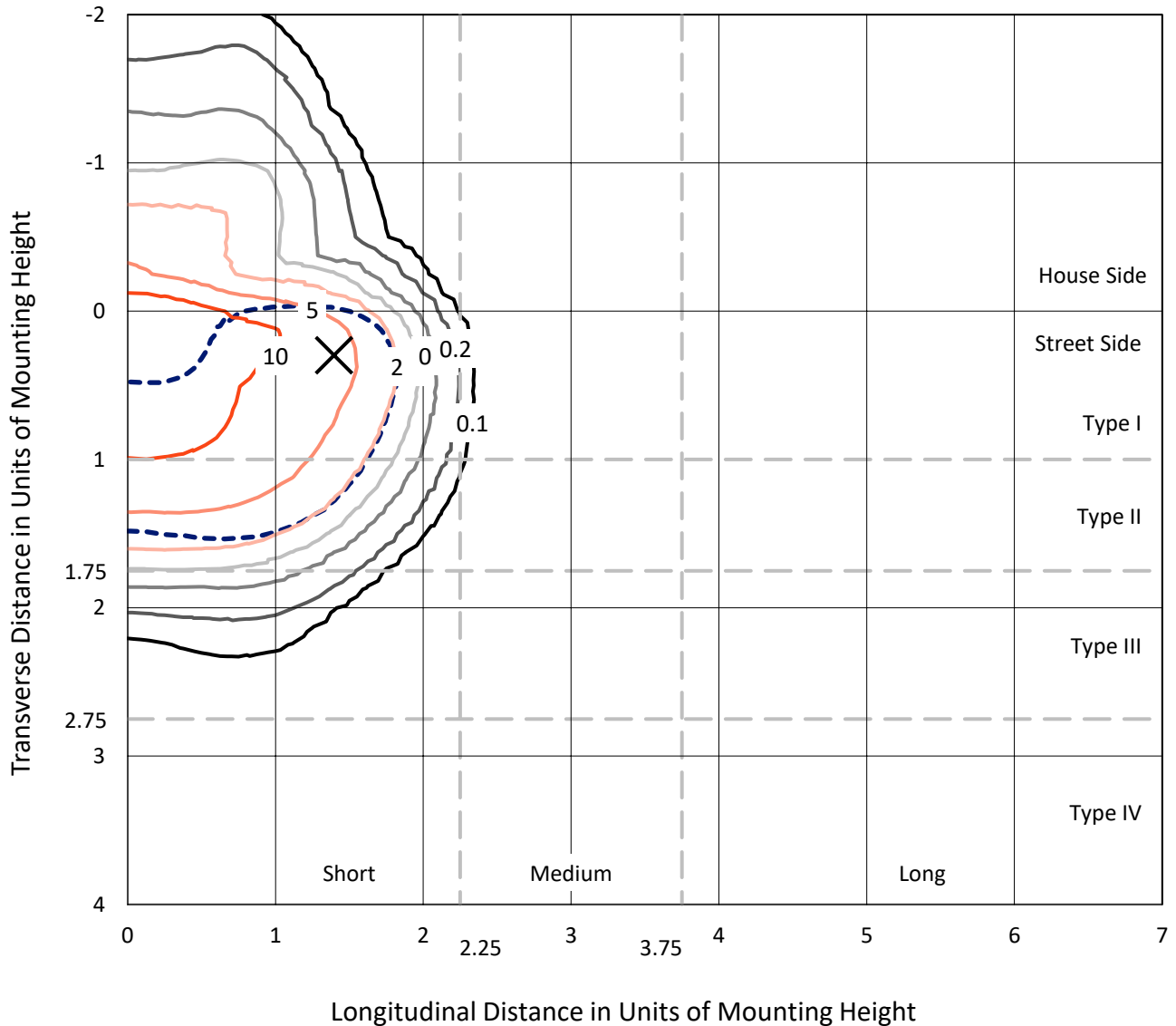
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

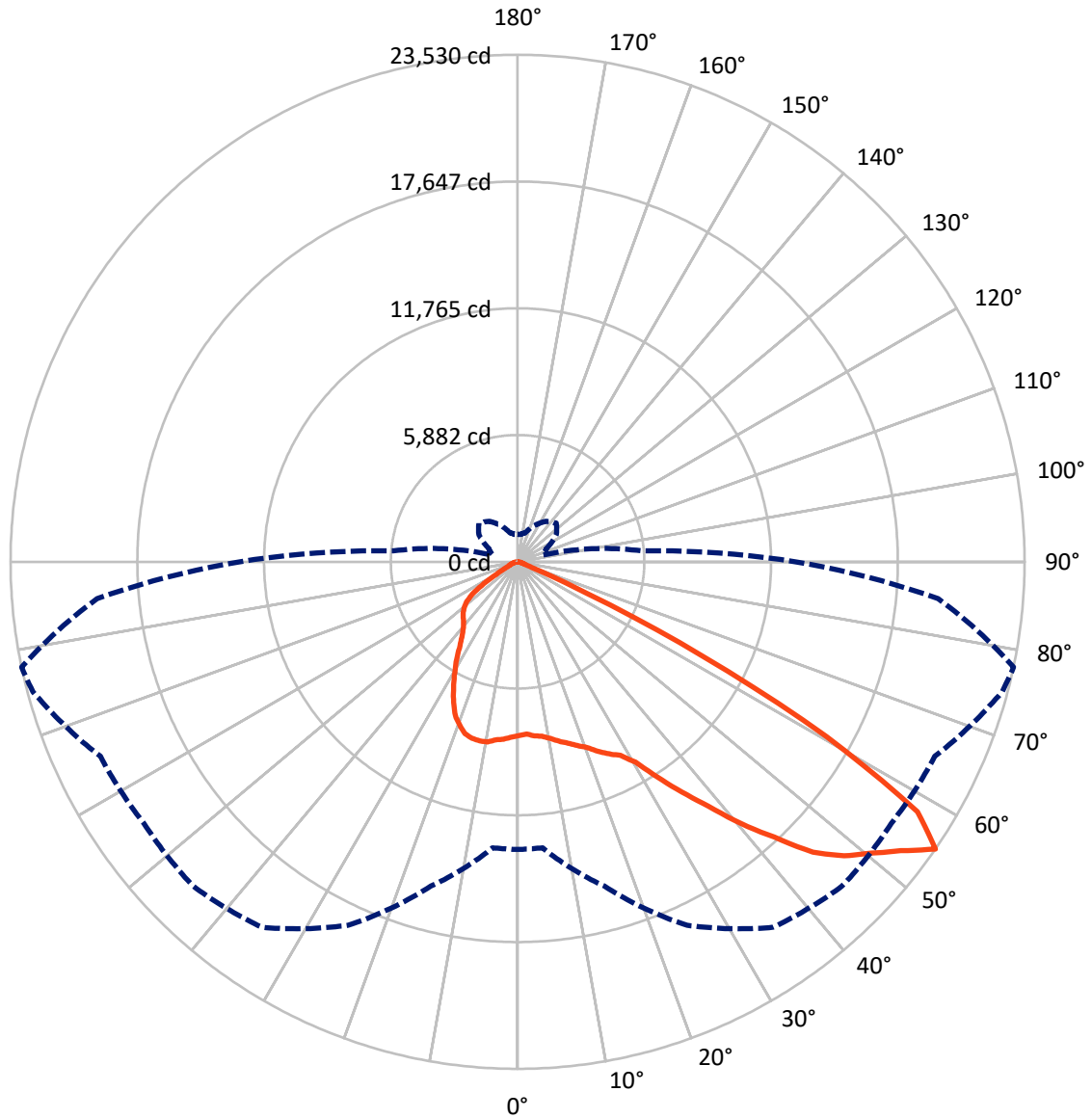
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5827.0 | 0.0 | 5827.0 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 25545.0 | 0.0 | 25545.0 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 31372.0 | 0.0 | 31372.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 719.2 | 2.3 |
| 10°-20° | 1903.4 | 6.1 |
| 20°-30° | 3336.3 | 10.6 |
| 30°-40° | 5501.2 | 17.5 |
| 40°-50° | 8004.9 | 25.5 |
| 50°-60° | 9070.4 | 28.9 |
| 60°-70° | 2593.4 | 8.3 |
| 70°-80° | 201.4 | 0.6 |
| 80°-90° | 41.9 | 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° | 31372.0 | 100.0 |
| 0°-180° | 31372.0 | 100.0 |

Coefficient of Utilization



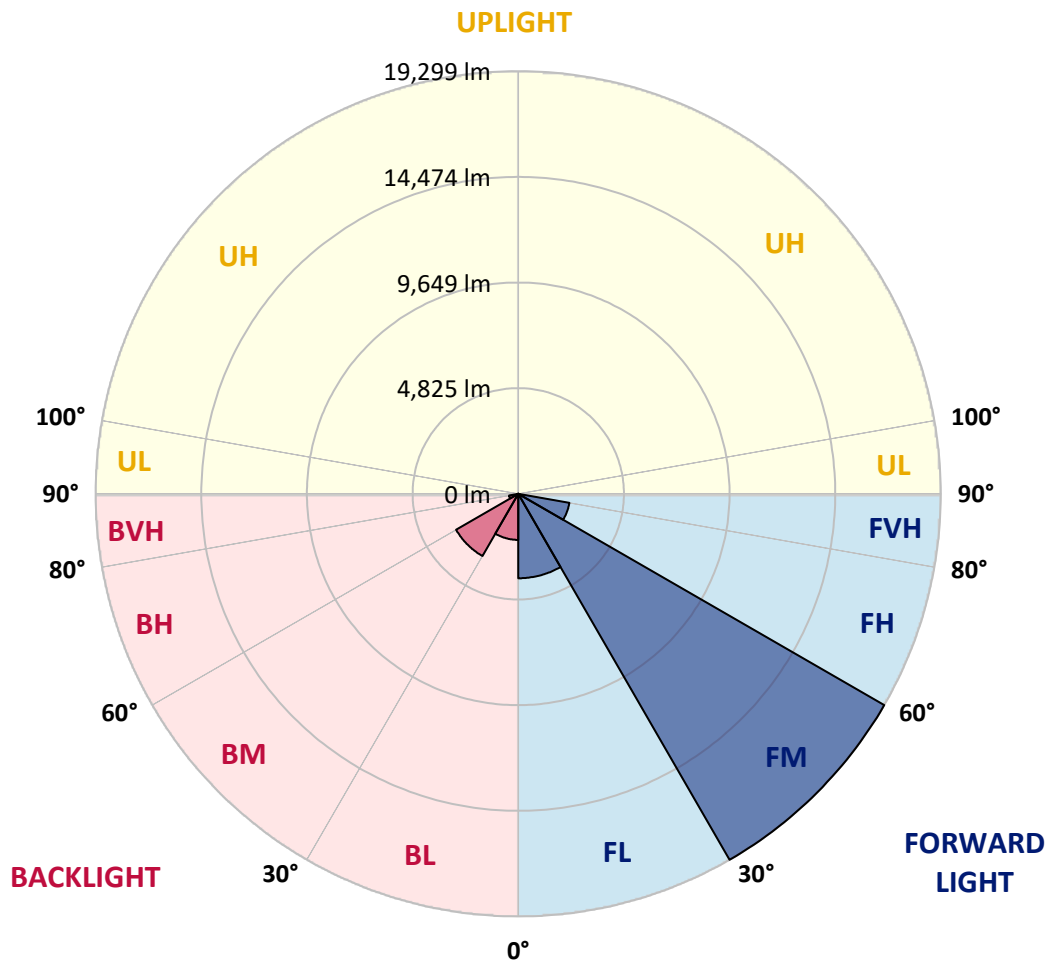
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3856.5 | 12.3 | | | |
| FM (30°-60°) | 19298.7 | 61.5 | | | |
| FH (60°-80°) | 2369.4 | 7.6 | | | G2/5000 |
| FVH (80°-90°) | 20.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2102.4 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 3277.8 | 10.4 | B3/5000 | | |
| BH (60°-80°) | 425.3 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 21.5 | 0.1 | | | 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° | 55° | 65° | 75° | 78° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8065.8 | 8065.8 | 8065.8 | 8065.8 | 8065.8 | 8065.8 | 8065.8 | 8065.8 | 8065.8 | 8065.8 | 8065.8 |
| 2.5° | 7583.4 | 7656.3 | 7667.5 | 7757.3 | 7751.7 | 7903.1 | 7948.0 | 7953.6 | 8054.5 | 8004.1 | 8133.1 |
| 5° | 7370.2 | 7331.0 | 7314.2 | 7471.2 | 7516.1 | 7650.7 | 7762.9 | 7830.2 | 8037.7 | 8110.6 | 8245.2 |
| 7.5° | 7179.5 | 7179.5 | 7190.8 | 7331.0 | 7314.2 | 7488.0 | 7605.8 | 7813.4 | 8116.2 | 8177.9 | 8340.6 |
| 10° | 6994.4 | 6927.1 | 7011.3 | 7157.1 | 7280.5 | 7359.0 | 7605.8 | 7802.1 | 8155.5 | 8335.0 | 8559.4 |
| 12.5° | 6899.1 | 6932.7 | 6944.0 | 7050.5 | 7185.1 | 7420.7 | 7555.3 | 7880.7 | 8436.0 | 8542.5 | 8783.7 |
| 15° | 7499.2 | 7431.9 | 7269.3 | 7173.9 | 7286.1 | 7398.3 | 7734.8 | 8065.8 | 8581.8 | 8733.2 | 9002.5 |
| 17.5° | 8194.8 | 8138.7 | 8004.1 | 7746.0 | 7493.6 | 7701.2 | 7964.8 | 8267.7 | 8738.8 | 8963.2 | 9361.4 |
| 20° | 9103.4 | 9013.7 | 8879.1 | 8374.3 | 8155.5 | 7931.1 | 8211.6 | 8570.6 | 8996.9 | 9198.8 | 9608.2 |
| 22.5° | 10186.0 | 10186.0 | 9883.1 | 9271.7 | 8817.4 | 8604.2 | 8722.0 | 8929.5 | 9282.9 | 9557.8 | 9961.6 |
| 25° | 11313.4 | 11279.7 | 11004.9 | 10371.1 | 9602.6 | 9350.2 | 9484.8 | 9630.7 | 9726.0 | 9877.5 | 10146.7 |
| 27.5° | 12603.5 | 12407.1 | 12059.4 | 11358.2 | 10679.6 | 10191.6 | 10337.4 | 10208.4 | 10090.6 | 10169.1 | 10556.2 |
| 30° | 13478.5 | 13601.9 | 13158.7 | 12485.7 | 11846.2 | 11302.2 | 11330.2 | 11218.0 | 10679.6 | 10791.7 | 11021.7 |
| 32.5° | 14387.1 | 14465.6 | 14218.8 | 13848.7 | 13209.2 | 12575.4 | 12345.4 | 12250.1 | 11846.2 | 11896.7 | 11672.4 |
| 35° | 15144.3 | 15295.8 | 15077.0 | 14914.4 | 14729.3 | 14218.8 | 13585.0 | 13893.5 | 13242.9 | 13119.5 | 12536.1 |
| 37.5° | 15839.9 | 15795.0 | 16053.0 | 15884.7 | 15845.5 | 15486.5 | 14791.0 | 14852.7 | 14415.2 | 14387.1 | 13714.0 |
| 40° | 16462.5 | 16473.7 | 16827.0 | 16905.6 | 16748.5 | 16109.1 | 15099.5 | 15587.4 | 15940.8 | 15974.5 | 15110.7 |
| 42.5° | 16978.5 | 17129.9 | 17432.8 | 18066.6 | 17831.0 | 16765.3 | 15419.2 | 15952.0 | 17264.5 | 17472.1 | 16434.4 |
| 45° | 17427.2 | 17735.7 | 18111.5 | 18678.0 | 18543.4 | 17696.4 | 16215.7 | 16703.6 | 18678.0 | 19222.1 | 17679.6 |
| 47.5° | 17455.2 | 17859.1 | 18268.6 | 19109.9 | 19278.2 | 18195.6 | 17040.2 | 17892.7 | 19799.8 | 20388.8 | 18588.3 |
| 50° | 17343.1 | 17556.2 | 18375.1 | 19289.4 | 19670.8 | 19008.9 | 18195.6 | 18891.2 | 20888.0 | 21258.2 | 19048.2 |
| 52.5° | 16013.7 | 16176.4 | 17819.8 | 19457.7 | 20377.5 | 19928.8 | 19726.9 | 20282.2 | 21998.5 | 22273.4 | 19480.1 |
| 55° | 13349.4 | 13321.4 | 15581.8 | 18610.7 | 20702.9 | 21291.8 | 21168.4 | 21364.7 | 23283.0 | 23529.8 | 19586.7 |
| 57.5° | 9131.5 | 9641.9 | 11593.8 | 15497.7 | 18711.7 | 20972.1 | 21101.1 | 20775.8 | 21785.4 | 21880.8 | 17073.8 |
| 60° | 4924.7 | 5137.9 | 6708.4 | 10343.0 | 14246.9 | 17090.7 | 17427.2 | 16838.3 | 16759.7 | 16490.5 | 12188.4 |
| 62.5° | 1957.5 | 2064.1 | 2955.9 | 5121.0 | 7762.9 | 10387.9 | 11111.5 | 10870.3 | 10354.2 | 9647.5 | 6310.1 |
| 65° | 931.1 | 998.4 | 1469.6 | 2395.0 | 3443.9 | 4330.2 | 5053.7 | 5278.1 | 3892.7 | 3505.6 | 2080.9 |
| 67.5° | 633.8 | 684.3 | 1071.3 | 1368.6 | 1228.4 | 1284.5 | 1671.5 | 1553.7 | 914.3 | 779.7 | 577.7 |
| 70° | 482.4 | 516.0 | 858.2 | 931.1 | 549.7 | 387.0 | 431.9 | 403.8 | 375.8 | 381.4 | 375.8 |
| 72.5° | 342.1 | 370.2 | 628.2 | 549.7 | 241.2 | 179.5 | 230.0 | 274.8 | 274.8 | 274.8 | 269.2 |
| 75° | 207.5 | 235.6 | 364.6 | 213.1 | 95.4 | 95.4 | 145.8 | 185.1 | 196.3 | 201.9 | 190.7 |
| 77.5° | 106.6 | 134.6 | 123.4 | 61.7 | 61.7 | 72.9 | 106.6 | 129.0 | 140.2 | 140.2 | 134.6 |
| 80° | 22.4 | 22.4 | 22.4 | 33.7 | 61.7 | 78.5 | 106.6 | 117.8 | 134.6 | 134.6 | 123.4 |
| 82.5° | 0.0 | 5.6 | 16.8 | 33.7 | 56.1 | 72.9 | 101.0 | 117.8 | 134.6 | 140.2 | 129.0 |
| 85° | 0.0 | 5.6 | 11.2 | 22.4 | 39.3 | 44.9 | 39.3 | 33.7 | 33.7 | 33.7 | 33.7 |
| 87.5° | 0.0 | 0.0 | 5.6 | 5.6 | 5.6 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 |
| 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-SA9B-760-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8065.8 | 8065.8 | 8065.8 | 8065.8 | 8065.8 | 8065.8 | 8065.8 | 8065.8 | 8065.8 | 8065.8 | 8065.8 |
| 2.5° | 8144.3 | 8161.1 | 8133.1 | 8127.5 | 8105.0 | 8172.3 | 8009.7 | 7970.4 | 8071.4 | 7976.0 | 7998.5 |
| 5° | 8250.9 | 8290.1 | 8239.6 | 8155.5 | 8032.1 | 7841.4 | 7678.7 | 7465.6 | 7364.6 | 7291.7 | 7280.5 |
| 7.5° | 8329.4 | 8357.4 | 8306.9 | 8037.7 | 7667.5 | 7185.1 | 6826.2 | 6562.5 | 6355.0 | 6293.3 | 6192.3 |
| 10° | 8649.1 | 8654.7 | 8402.3 | 7807.7 | 7084.2 | 6450.4 | 5900.7 | 5496.8 | 5289.3 | 5160.3 | 5104.2 |
| 12.5° | 8862.2 | 8851.0 | 8340.6 | 7353.4 | 6388.7 | 5547.3 | 4919.1 | 4431.1 | 4240.4 | 4178.7 | 4139.5 |
| 15° | 9131.5 | 9069.8 | 8194.8 | 6887.9 | 5491.2 | 4582.6 | 4016.1 | 3679.5 | 3662.7 | 3623.4 | 3662.7 |
| 17.5° | 9344.6 | 9170.7 | 7981.6 | 6040.9 | 4633.0 | 3774.9 | 3404.7 | 3427.1 | 3472.0 | 3511.2 | 3516.9 |
| 20° | 9692.4 | 9333.4 | 7493.6 | 5300.5 | 3836.6 | 3236.4 | 3230.8 | 3331.8 | 3443.9 | 3488.8 | 3533.7 |
| 22.5° | 9956.0 | 9400.7 | 6972.0 | 4509.6 | 3185.9 | 3017.6 | 3113.0 | 3264.4 | 3348.6 | 3393.5 | 3460.8 |
| 25° | 10051.3 | 9215.6 | 6276.5 | 3718.8 | 2871.8 | 2916.7 | 3062.5 | 3163.5 | 3270.1 | 3320.5 | 3292.5 |
| 27.5° | 10146.7 | 9120.3 | 5446.4 | 3062.5 | 2703.5 | 2849.4 | 2972.8 | 3073.7 | 3107.4 | 3174.7 | 3219.6 |
| 30° | 10376.7 | 8789.3 | 4700.4 | 2647.5 | 2619.4 | 2804.5 | 2894.3 | 2927.9 | 3017.6 | 3056.9 | 3056.9 |
| 32.5° | 10561.8 | 8660.3 | 3909.5 | 2451.1 | 2608.2 | 2826.9 | 2838.2 | 2838.2 | 2849.4 | 2821.3 | 2810.1 |
| 35° | 10943.2 | 8217.2 | 3202.7 | 2333.3 | 2602.6 | 2832.6 | 2860.6 | 2765.2 | 2507.2 | 2406.3 | 2378.2 |
| 37.5° | 11414.3 | 7931.1 | 2681.1 | 2305.3 | 2641.8 | 2899.9 | 2944.7 | 2585.8 | 2249.2 | 2086.6 | 2058.5 |
| 40° | 11986.5 | 7729.2 | 2339.0 | 2294.1 | 2731.6 | 3056.9 | 2922.3 | 2445.5 | 2008.0 | 1772.4 | 1761.2 |
| 42.5° | 12653.9 | 7544.1 | 2109.0 | 2288.5 | 2843.8 | 3219.6 | 2899.9 | 2327.7 | 1761.2 | 1604.2 | 1626.6 |
| 45° | 13186.8 | 7443.2 | 1951.9 | 2249.2 | 2883.0 | 3314.9 | 2916.7 | 2120.2 | 1660.3 | 1559.3 | 1570.5 |
| 47.5° | 13601.9 | 7230.0 | 1822.9 | 2181.9 | 2877.4 | 3348.6 | 2765.2 | 2036.1 | 1609.8 | 1637.8 | 1665.9 |
| 50° | 13613.1 | 6944.0 | 1660.3 | 2036.1 | 2793.3 | 3286.9 | 2591.4 | 1957.5 | 1598.6 | 1716.4 | 1772.4 |
| 52.5° | 13461.6 | 6540.1 | 1486.4 | 1828.5 | 2597.0 | 3073.7 | 2434.3 | 1923.9 | 1548.1 | 1536.9 | 1604.2 |
| 55° | 12923.2 | 5782.9 | 1194.7 | 1480.8 | 2193.1 | 2535.3 | 2294.1 | 1862.2 | 1396.6 | 1267.6 | 1278.9 |
| 57.5° | 10444.0 | 4145.1 | 880.6 | 1060.1 | 1553.7 | 1856.6 | 2069.7 | 1834.1 | 1256.4 | 1076.9 | 1082.5 |
| 60° | 6467.2 | 2350.2 | 645.0 | 723.6 | 959.1 | 1127.4 | 1677.1 | 1705.1 | 1121.8 | 908.7 | 897.4 |
| 62.5° | 3320.5 | 1161.1 | 499.2 | 510.4 | 588.9 | 661.9 | 1149.8 | 1430.3 | 1015.2 | 863.8 | 863.8 |
| 65° | 1110.6 | 572.1 | 437.5 | 392.6 | 392.6 | 409.5 | 695.5 | 992.8 | 858.2 | 723.6 | 723.6 |
| 67.5° | 476.8 | 426.3 | 381.4 | 342.1 | 314.1 | 297.3 | 392.6 | 577.7 | 639.4 | 549.7 | 527.2 |
| 70° | 370.2 | 359.0 | 330.9 | 286.1 | 246.8 | 224.4 | 230.0 | 297.3 | 364.6 | 353.4 | 342.1 |
| 72.5° | 274.8 | 274.8 | 263.6 | 224.4 | 190.7 | 162.7 | 151.4 | 157.1 | 173.9 | 179.5 | 185.1 |
| 75° | 190.7 | 196.3 | 196.3 | 173.9 | 140.2 | 117.8 | 101.0 | 84.1 | 67.3 | 56.1 | 50.5 |
| 77.5° | 129.0 | 134.6 | 145.8 | 129.0 | 106.6 | 78.5 | 61.7 | 44.9 | 28.0 | 11.2 | 11.2 |
| 80° | 112.2 | 129.0 | 140.2 | 129.0 | 112.2 | 84.1 | 61.7 | 33.7 | 16.8 | 0.0 | 0.0 |
| 82.5° | 117.8 | 129.0 | 145.8 | 123.4 | 106.6 | 78.5 | 61.7 | 39.3 | 16.8 | 5.6 | 0.0 |
| 85° | 28.0 | 28.0 | 33.7 | 39.3 | 50.5 | 56.1 | 44.9 | 28.0 | 16.8 | 5.6 | 0.0 |
| 87.5° | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 5.6 | 5.6 | 5.6 | 5.6 | 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)