

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: P649552

Luminaire Tested: **GLAN-SA7D-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35970.2 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

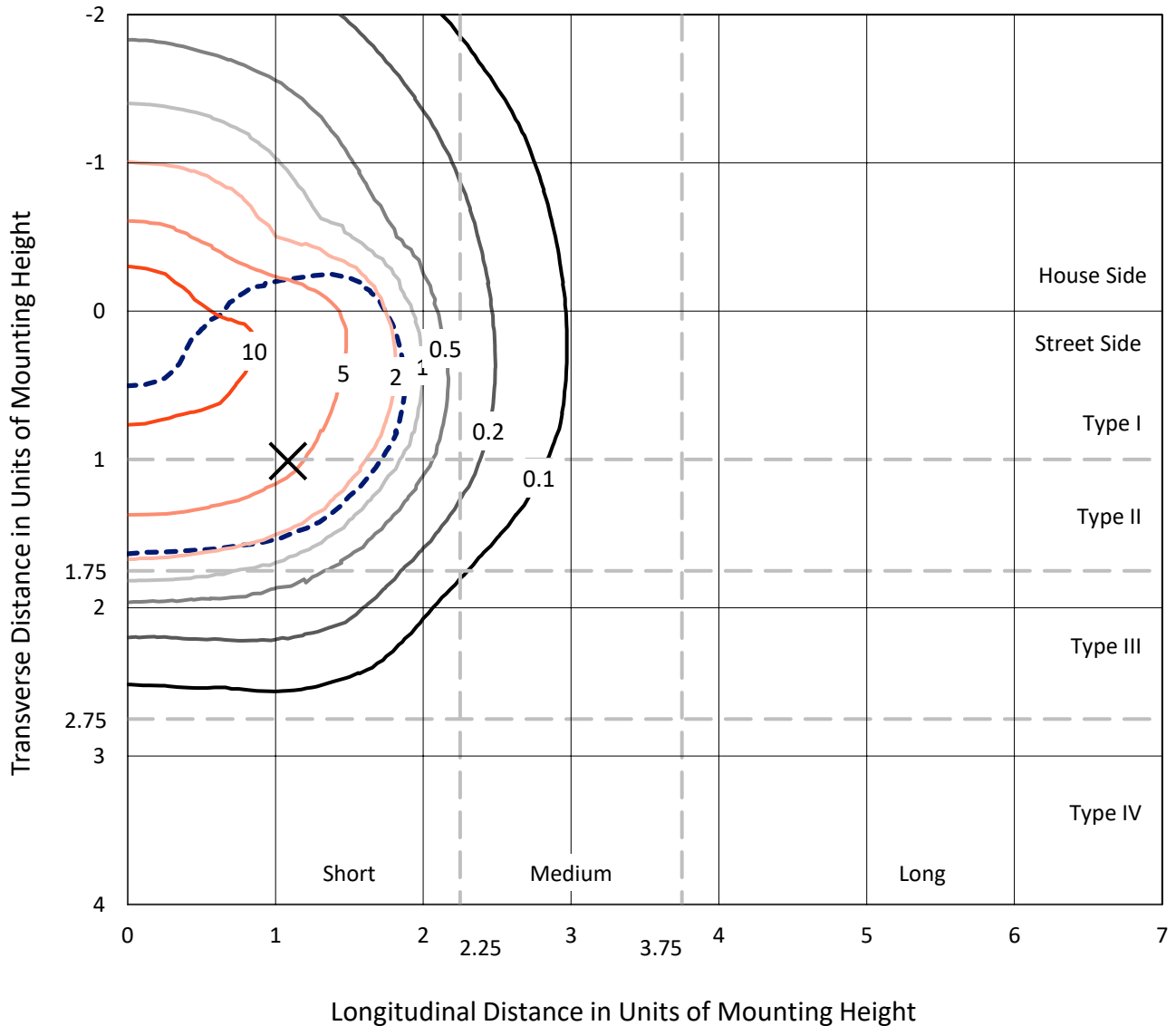
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

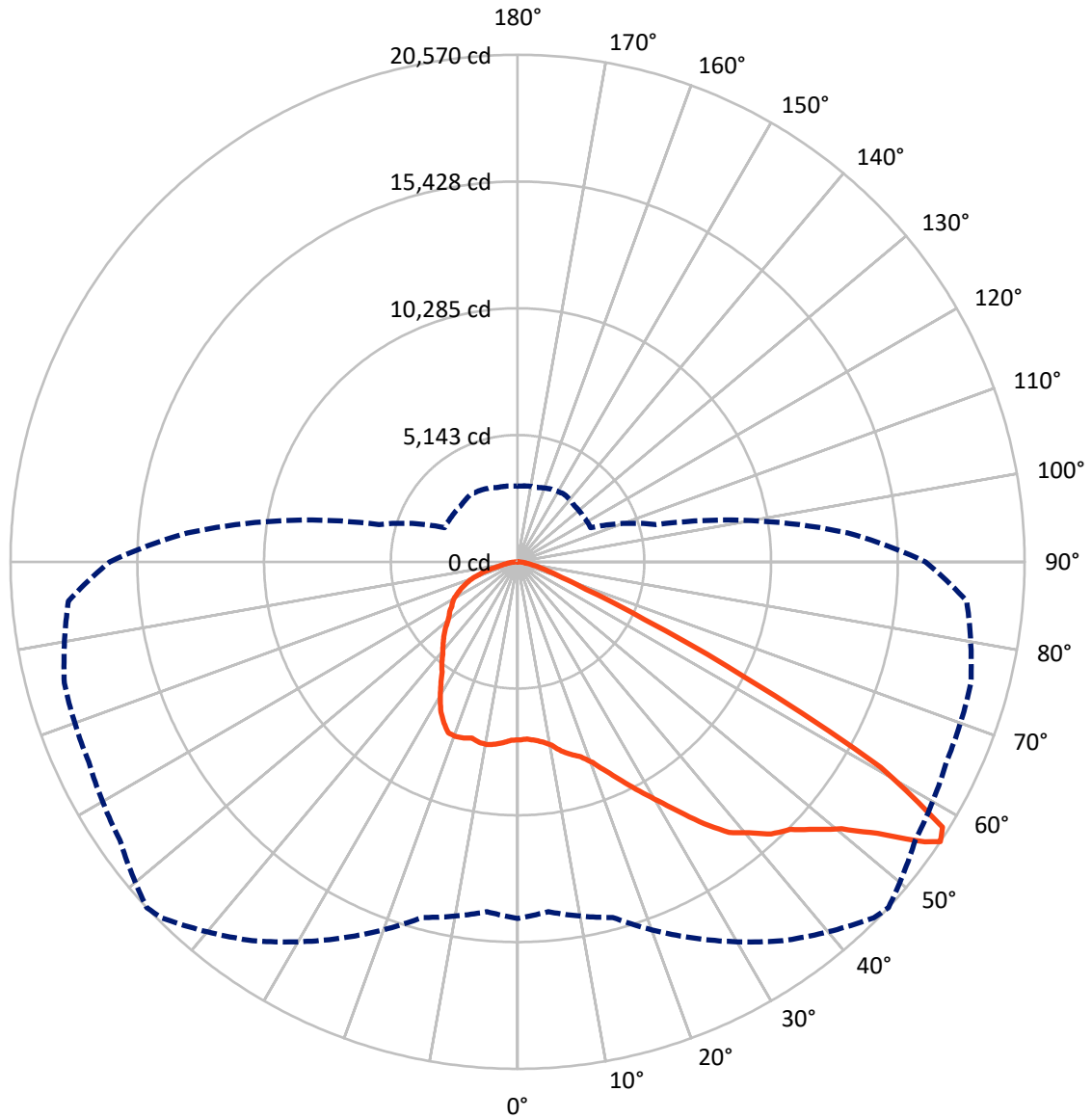
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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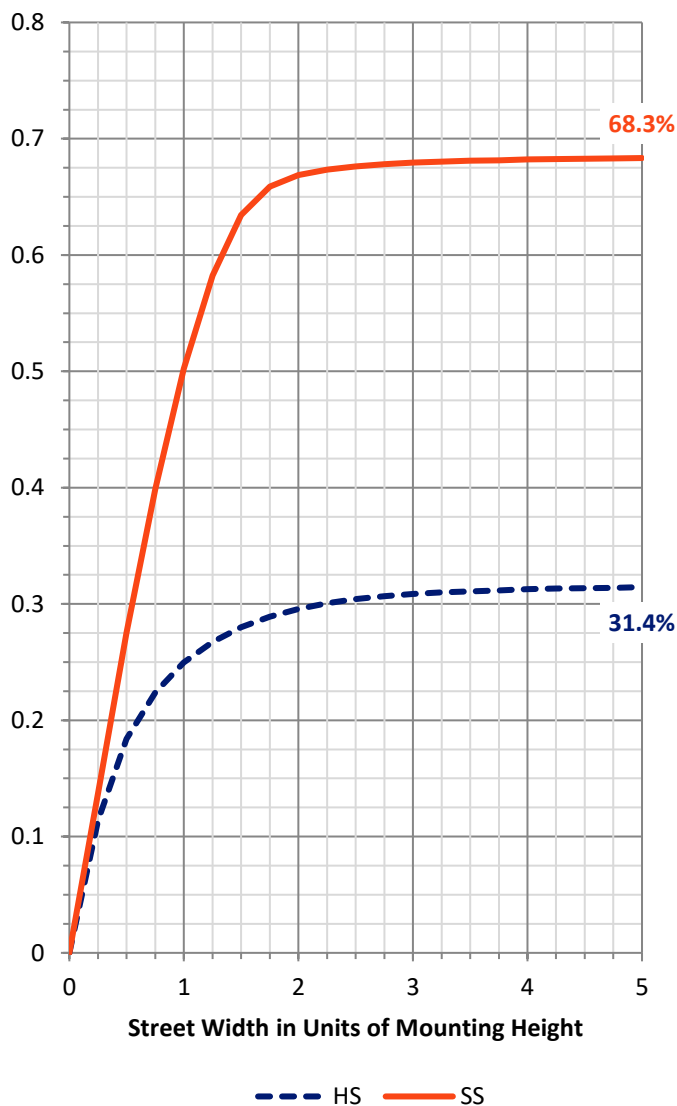
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11398.5 | 0.0 | 11398.5 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 24571.7 | 0.0 | 24571.7 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 35970.2 | 0.0 | 35970.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 704.0 | 2.0 |
| 10°-20° | 2220.8 | 6.2 |
| 20°-30° | 3925.8 | 10.9 |
| 30°-40° | 5896.5 | 16.4 |
| 40°-50° | 8092.3 | 22.5 |
| 50°-60° | 9641.0 | 26.8 |
| 60°-70° | 4125.7 | 11.5 |
| 70°-80° | 1167.6 | 3.2 |
| 80°-90° | 196.5 | 0.5 |
| 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° | 35970.2 | 100.0 |
| 0°-180° | 35970.2 | 100.0 |

Coefficient of Utilization

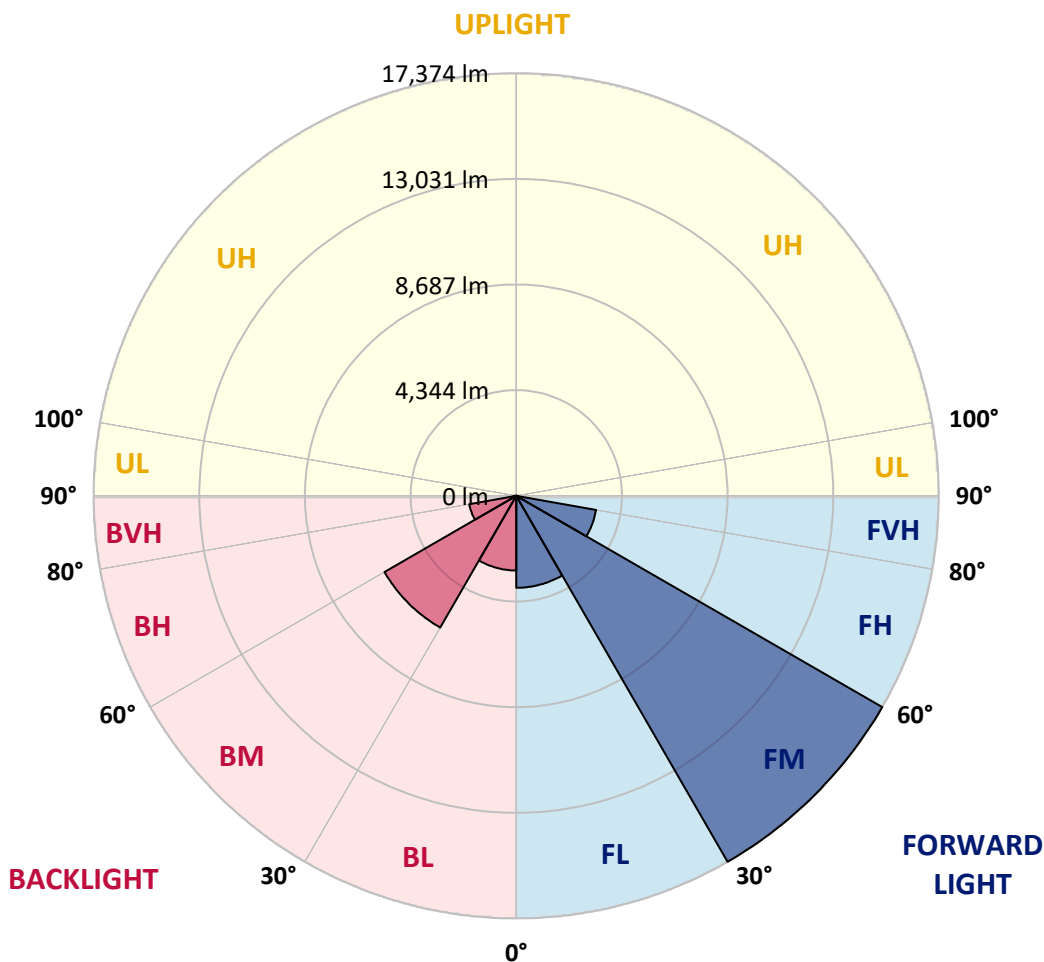


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3781.7 | 10.5 | | | |
| FM (30°-60°) | 17374.5 | 48.3 | | | |
| FH (60°-80°) | 3332.2 | 9.3 | | | G2/5000 |
| FVH (80°-90°) | 83.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3069.0 | 8.5 | B4/5000 | | |
| BM (30°-60°) | 6255.3 | 17.4 | B4/8500 | | |
| BH (60°-80°) | 1961.2 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 113.1 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7225.3 | 7225.3 | 7225.3 | 7225.3 | 7225.3 | 7225.3 | 7225.3 | 7225.3 | 7225.3 | 7225.3 | 7225.3 |
| 2.5° | 7197.8 | 7184.0 | 7174.9 | 7248.2 | 7220.7 | 7225.3 | 7197.8 | 7225.3 | 7243.7 | 7202.4 | 7262.0 |
| 5° | 7184.0 | 7225.3 | 7188.6 | 7211.6 | 7271.2 | 7252.9 | 7271.2 | 7326.2 | 7312.5 | 7298.7 | 7280.4 |
| 7.5° | 7312.5 | 7317.1 | 7344.6 | 7353.8 | 7372.1 | 7353.8 | 7381.3 | 7431.8 | 7418.0 | 7340.0 | 7349.2 |
| 10° | 7496.0 | 7505.1 | 7509.8 | 7560.2 | 7592.4 | 7596.9 | 7564.8 | 7518.9 | 7514.4 | 7619.8 | 7546.5 |
| 12.5° | 7707.0 | 7684.0 | 7739.1 | 7757.5 | 7794.2 | 7835.5 | 7876.7 | 7780.4 | 7840.0 | 7844.6 | 7757.5 |
| 15° | 8014.4 | 8037.3 | 7973.1 | 7973.1 | 7986.8 | 7991.5 | 8106.2 | 8060.3 | 8051.0 | 8000.6 | 8037.3 |
| 17.5° | 8473.2 | 8317.2 | 8312.6 | 8248.4 | 8239.2 | 8275.8 | 8317.2 | 8353.8 | 8477.7 | 8376.8 | 8179.5 |
| 20° | 8808.0 | 8844.7 | 8711.7 | 8633.7 | 8647.5 | 8730.1 | 8688.7 | 8853.9 | 8941.1 | 8775.9 | 8583.2 |
| 22.5° | 9399.8 | 9276.0 | 9308.1 | 9133.7 | 9147.5 | 9234.6 | 9230.1 | 9399.8 | 9450.3 | 9188.8 | 8909.0 |
| 25° | 9798.9 | 9766.8 | 9794.3 | 9656.7 | 9675.1 | 9743.9 | 9854.0 | 10133.8 | 10051.2 | 9762.2 | 9115.4 |
| 27.5° | 10381.6 | 10317.3 | 10294.3 | 10243.9 | 10225.6 | 10409.0 | 10537.5 | 10835.7 | 10776.0 | 10354.0 | 9482.4 |
| 30° | 10977.9 | 10936.6 | 10959.6 | 10753.1 | 10826.5 | 11216.5 | 11253.2 | 11661.5 | 11633.9 | 10890.7 | 9890.7 |
| 32.5° | 11390.8 | 11413.7 | 11455.0 | 11340.3 | 11666.1 | 11978.0 | 12101.8 | 12565.2 | 12588.1 | 11812.8 | 10679.7 |
| 35° | 12056.0 | 11978.0 | 12001.0 | 12134.0 | 12285.3 | 12854.2 | 13056.1 | 13363.4 | 13556.1 | 12780.8 | 11436.7 |
| 37.5° | 12473.4 | 12556.0 | 12459.6 | 12670.7 | 13065.2 | 13748.8 | 13932.2 | 14248.8 | 14450.7 | 13735.0 | 12468.9 |
| 40° | 13124.9 | 12991.8 | 13060.7 | 13212.0 | 13615.7 | 14505.7 | 14455.3 | 14780.9 | 14845.2 | 14547.0 | 13432.2 |
| 42.5° | 13826.8 | 13762.6 | 13666.2 | 14010.2 | 14349.7 | 14996.6 | 15097.5 | 14946.1 | 15271.8 | 15340.6 | 14808.5 |
| 45° | 14666.3 | 14744.3 | 14758.0 | 14767.2 | 15065.4 | 15629.6 | 15492.0 | 15359.0 | 15735.2 | 16235.2 | 15661.7 |
| 47.5° | 15446.2 | 15198.4 | 15377.3 | 15625.1 | 16047.1 | 16051.7 | 16212.2 | 15895.7 | 16294.9 | 16739.8 | 16432.4 |
| 50° | 15707.6 | 15588.4 | 15826.9 | 16294.9 | 16946.2 | 17015.1 | 17033.5 | 16583.9 | 16790.3 | 17143.6 | 16698.6 |
| 52.5° | 15606.7 | 15565.4 | 16175.5 | 16900.4 | 17854.6 | 18203.3 | 18295.0 | 17739.9 | 17854.6 | 17694.0 | 17285.7 |
| 55° | 15125.1 | 15248.8 | 15863.6 | 17340.8 | 18804.2 | 19882.2 | 20056.6 | 19354.7 | 18625.3 | 18749.2 | 18299.6 |
| 56° | 14464.4 | 14248.8 | 14936.9 | 16840.8 | 18763.0 | 20428.2 | 20570.4 | 19694.2 | 19198.7 | 19038.2 | 18290.4 |
| 57.5° | 12271.6 | 11991.7 | 12895.5 | 15152.5 | 17721.6 | 20221.8 | 20327.2 | 19836.4 | 19102.4 | 18776.7 | 16955.5 |
| 60° | 7184.0 | 7321.7 | 8468.5 | 10450.3 | 13670.8 | 16579.2 | 16932.5 | 17290.4 | 16799.4 | 15340.6 | 12620.2 |
| 62.5° | 3468.1 | 3381.0 | 4202.1 | 5991.3 | 8330.9 | 10583.4 | 10477.9 | 11482.5 | 12033.1 | 10899.9 | 7968.5 |
| 65° | 1816.6 | 1807.5 | 2293.7 | 3270.9 | 4578.4 | 5560.1 | 5656.4 | 6197.8 | 6954.7 | 5615.1 | 4046.2 |
| 67.5° | 1334.9 | 1371.7 | 1614.8 | 2298.3 | 2945.2 | 3004.8 | 2991.1 | 3261.7 | 3335.1 | 2821.3 | 2486.4 |
| 70° | 1045.9 | 1064.3 | 1243.2 | 1747.8 | 2192.8 | 1963.5 | 1922.2 | 1954.3 | 2169.9 | 2261.6 | 2151.5 |
| 72.5° | 756.9 | 775.3 | 926.7 | 1179.0 | 1371.7 | 1339.6 | 1367.0 | 1546.0 | 1812.1 | 1908.4 | 1793.7 |
| 75° | 504.6 | 518.4 | 601.0 | 720.2 | 812.0 | 876.2 | 926.7 | 1133.1 | 1380.8 | 1435.9 | 1380.8 |
| 77.5° | 348.7 | 362.5 | 417.5 | 509.2 | 518.4 | 559.7 | 578.0 | 674.4 | 825.8 | 894.6 | 857.9 |
| 80° | 197.2 | 197.2 | 224.8 | 261.5 | 321.1 | 376.2 | 385.3 | 463.3 | 532.1 | 578.0 | 587.2 |
| 82.5° | 91.8 | 96.3 | 119.3 | 160.6 | 211.0 | 261.5 | 270.7 | 321.1 | 371.6 | 417.5 | 431.2 |
| 85° | 45.9 | 50.4 | 68.8 | 96.3 | 128.4 | 156.0 | 151.4 | 156.0 | 165.1 | 156.0 | 160.6 |
| 87.5° | 13.8 | 13.8 | 18.3 | 22.9 | 18.3 | 22.9 | 22.9 | 27.6 | 32.1 | 36.7 | 41.3 |
| 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-SA7D-835-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7225.3 | 7225.3 | 7225.3 | 7225.3 | 7225.3 | 7225.3 | 7225.3 | 7225.3 | 7225.3 | 7225.3 | 7225.3 |
| 2.5° | 7266.6 | 7280.4 | 7188.6 | 7275.8 | 7243.7 | 7239.1 | 7303.4 | 7294.1 | 7317.1 | 7307.9 | 7252.9 |
| 5° | 7271.2 | 7239.1 | 7335.5 | 7248.2 | 7289.6 | 7376.7 | 7317.1 | 7454.7 | 7385.9 | 7431.8 | 7330.8 |
| 7.5° | 7413.4 | 7422.6 | 7404.2 | 7440.9 | 7422.6 | 7463.9 | 7431.8 | 7463.9 | 7408.8 | 7413.4 | 7505.1 |
| 10° | 7537.3 | 7509.8 | 7541.9 | 7496.0 | 7528.1 | 7514.4 | 7440.9 | 7418.0 | 7436.4 | 7413.4 | 7473.0 |
| 12.5° | 7766.7 | 7716.2 | 7693.3 | 7638.2 | 7601.5 | 7463.9 | 7349.2 | 7285.0 | 7372.1 | 7385.9 | 7358.4 |
| 15° | 8000.6 | 8005.2 | 7899.7 | 7775.8 | 7546.5 | 7340.0 | 7367.6 | 7390.5 | 7390.5 | 7427.1 | 7358.4 |
| 17.5° | 8147.4 | 8147.4 | 8051.0 | 7803.4 | 7569.4 | 7450.1 | 7422.6 | 7349.2 | 7285.0 | 7275.8 | 7271.2 |
| 20° | 8404.3 | 8326.3 | 8106.2 | 7798.8 | 7560.2 | 7505.1 | 7298.7 | 7124.4 | 6991.3 | 6945.5 | 6940.9 |
| 22.5° | 8698.0 | 8500.6 | 8193.3 | 7807.9 | 7546.5 | 7468.5 | 7083.1 | 6821.7 | 6583.1 | 6482.1 | 6495.9 |
| 25° | 8968.6 | 8652.1 | 8243.7 | 7766.7 | 7496.0 | 7119.8 | 6688.6 | 6326.2 | 6078.4 | 5995.9 | 5954.6 |
| 27.5° | 9156.6 | 8812.6 | 8243.7 | 7803.4 | 7307.9 | 6729.9 | 6289.4 | 5826.1 | 5610.5 | 5555.5 | 5564.6 |
| 30° | 9409.0 | 9014.4 | 8385.9 | 7725.4 | 6931.7 | 6225.2 | 5697.7 | 5394.9 | 5266.5 | 5220.6 | 5252.7 |
| 32.5° | 10000.8 | 9542.0 | 8583.2 | 7537.3 | 6486.8 | 5720.6 | 5294.0 | 5124.3 | 4936.2 | 4844.4 | 4812.3 |
| 35° | 10643.0 | 10042.1 | 8775.9 | 7220.7 | 5986.7 | 5261.8 | 4995.8 | 4839.8 | 4615.0 | 4514.1 | 4532.5 |
| 37.5° | 11551.4 | 10684.3 | 8789.6 | 6697.8 | 5445.4 | 5004.9 | 4761.8 | 4518.7 | 4335.2 | 4179.2 | 4133.4 |
| 40° | 12776.2 | 11560.5 | 8757.5 | 6147.3 | 5009.6 | 4702.2 | 4523.3 | 4220.5 | 4014.0 | 3904.0 | 3926.9 |
| 42.5° | 13854.2 | 12588.1 | 8624.5 | 5523.4 | 4615.0 | 4495.8 | 4293.9 | 3995.7 | 3793.9 | 3679.2 | 3670.0 |
| 45° | 14762.6 | 13345.1 | 8372.2 | 4991.2 | 4284.7 | 4266.4 | 4032.4 | 3803.0 | 3642.5 | 3537.0 | 3582.9 |
| 47.5° | 15602.1 | 13955.2 | 7991.5 | 4459.0 | 3981.9 | 4018.7 | 3793.9 | 3651.7 | 3550.7 | 3454.4 | 3449.8 |
| 50° | 15904.9 | 13946.0 | 7656.6 | 4018.7 | 3738.8 | 3720.5 | 3711.3 | 3559.9 | 3454.4 | 3371.8 | 3408.6 |
| 52.5° | 16409.5 | 14102.0 | 7294.1 | 3715.9 | 3518.6 | 3523.2 | 3555.3 | 3445.2 | 3325.9 | 3275.4 | 3321.3 |
| 55° | 17134.3 | 14124.9 | 6495.9 | 3362.7 | 3335.1 | 3367.2 | 3367.2 | 3293.8 | 3192.9 | 3151.7 | 3128.7 |
| 56° | 16542.6 | 13441.4 | 5826.1 | 3270.9 | 3243.3 | 3243.3 | 3330.6 | 3248.0 | 3124.1 | 3092.0 | 3064.4 |
| 57.5° | 15258.1 | 11776.2 | 4876.5 | 3160.8 | 3119.5 | 3183.8 | 3229.6 | 3142.4 | 3027.8 | 2981.9 | 3009.4 |
| 60° | 10523.8 | 7968.5 | 3665.5 | 2922.2 | 2922.2 | 3027.8 | 3064.4 | 2936.0 | 2885.5 | 2881.0 | 2844.2 |
| 62.5° | 6142.7 | 4642.6 | 2867.2 | 2706.6 | 2715.8 | 2803.0 | 2830.5 | 2757.1 | 2692.9 | 2770.9 | 2807.5 |
| 65° | 3257.1 | 2770.9 | 2458.9 | 2477.3 | 2481.9 | 2550.6 | 2670.0 | 2665.3 | 2660.8 | 2683.7 | 2688.3 |
| 67.5° | 2358.0 | 2303.0 | 2234.1 | 2215.7 | 2225.0 | 2275.4 | 2394.6 | 2486.4 | 2481.9 | 2426.8 | 2385.5 |
| 70° | 2101.1 | 2023.1 | 1981.8 | 1986.4 | 1949.7 | 2009.3 | 2105.6 | 2165.3 | 2059.8 | 1995.6 | 1968.1 |
| 72.5° | 1747.8 | 1724.9 | 1697.4 | 1701.9 | 1628.6 | 1614.8 | 1504.7 | 1504.7 | 1477.2 | 1458.8 | 1490.9 |
| 75° | 1334.9 | 1325.8 | 1339.6 | 1316.6 | 1238.6 | 1156.0 | 1091.8 | 1032.2 | 940.5 | 903.7 | 885.4 |
| 77.5° | 844.1 | 871.6 | 903.7 | 853.3 | 821.1 | 761.5 | 697.3 | 637.7 | 564.2 | 523.0 | 523.0 |
| 80° | 573.5 | 596.4 | 619.3 | 610.1 | 573.5 | 518.4 | 467.9 | 403.7 | 353.2 | 321.1 | 316.6 |
| 82.5° | 435.8 | 454.1 | 486.2 | 449.6 | 412.9 | 367.0 | 325.7 | 279.8 | 234.0 | 197.2 | 197.2 |
| 85° | 156.0 | 178.9 | 197.2 | 215.6 | 229.3 | 234.0 | 201.9 | 165.1 | 133.0 | 105.5 | 100.9 |
| 87.5° | 41.3 | 45.9 | 50.4 | 45.9 | 45.9 | 45.9 | 50.4 | 45.9 | 41.3 | 32.1 | 32.1 |
| 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)