

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: P532535

Luminaire Tested: **GLAN-SA7D-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532535
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-SA7D-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA 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: 24090 lumens
Efficiency: N/A
Efficacy: 55.6 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

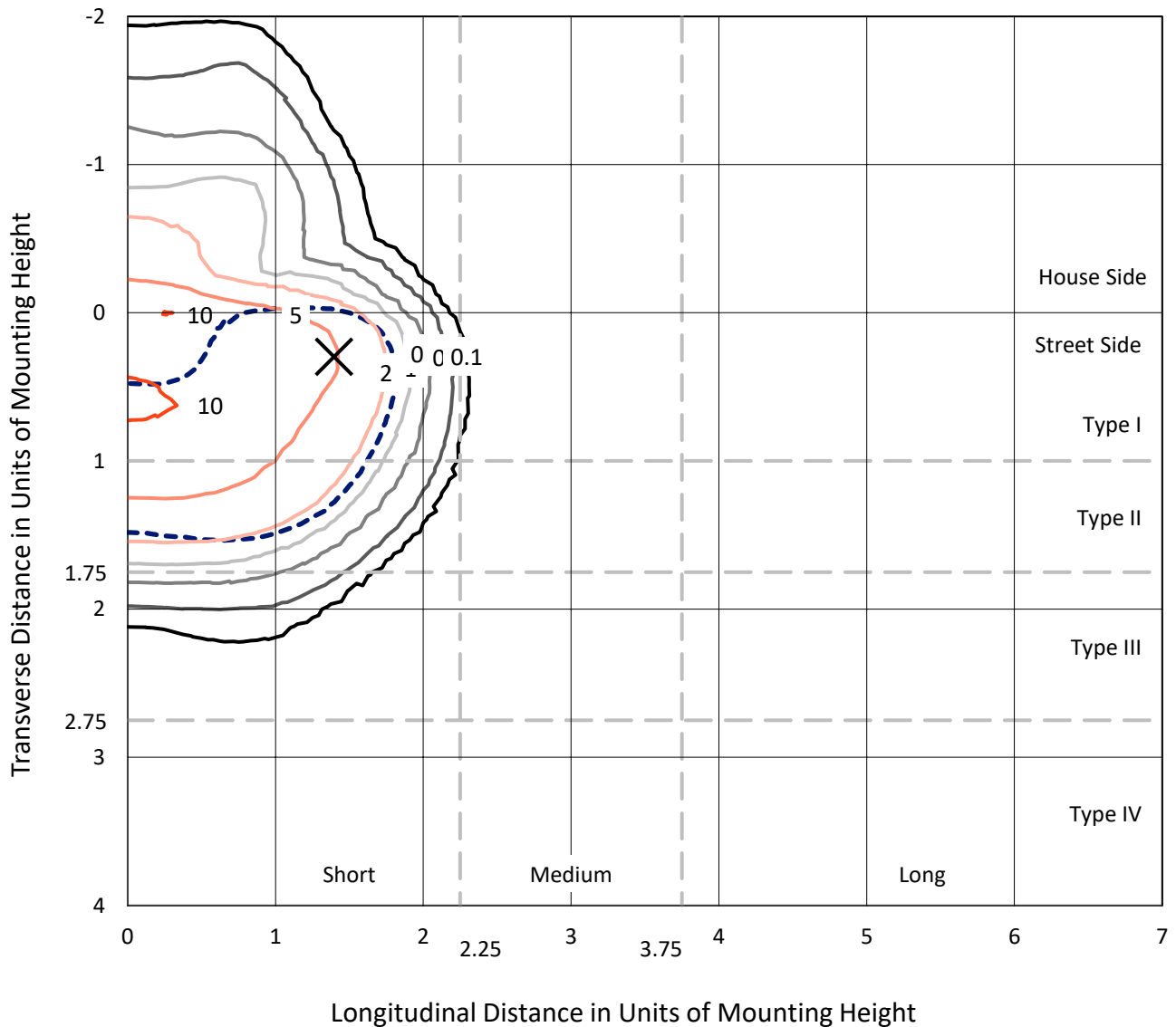
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

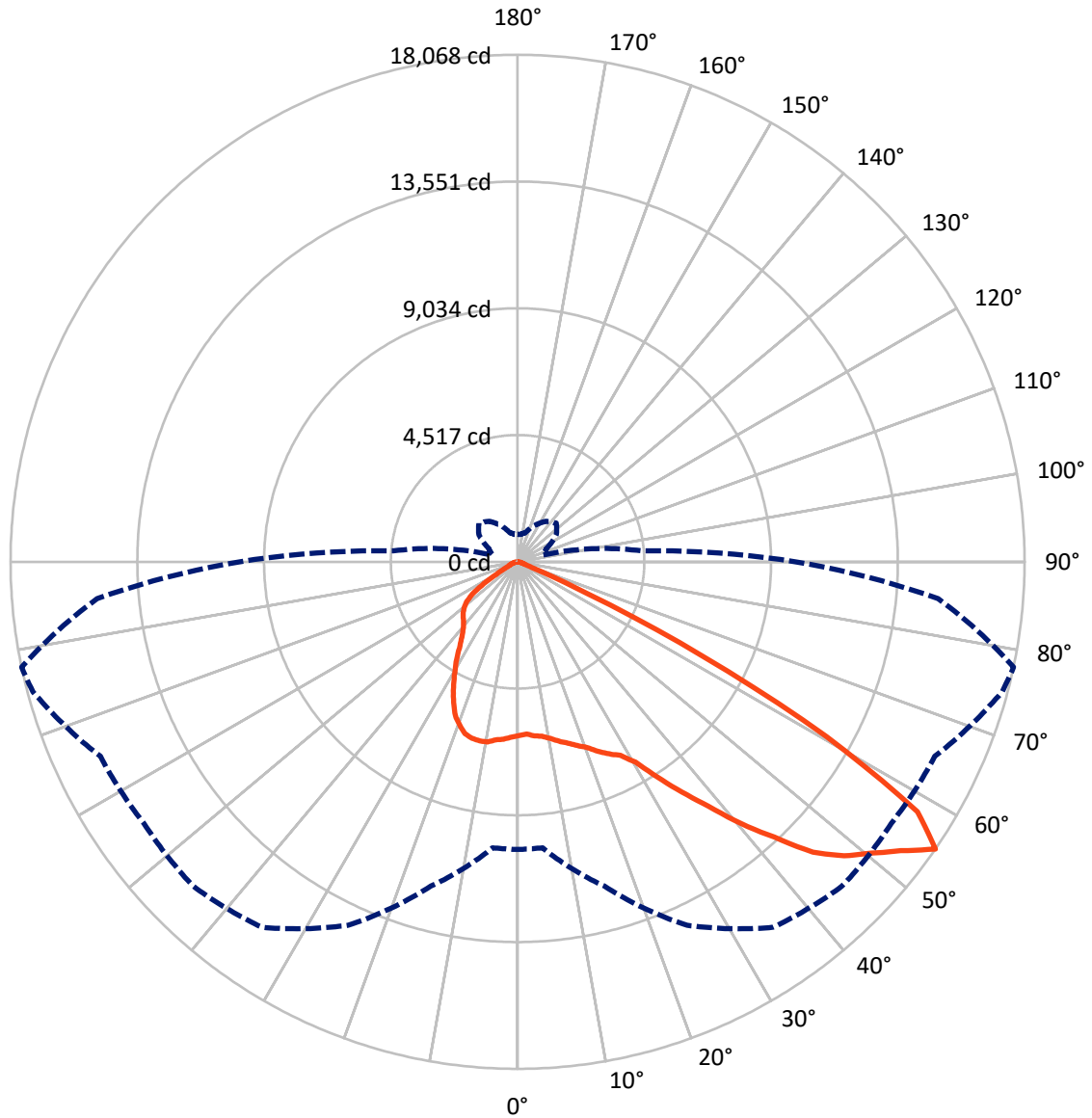
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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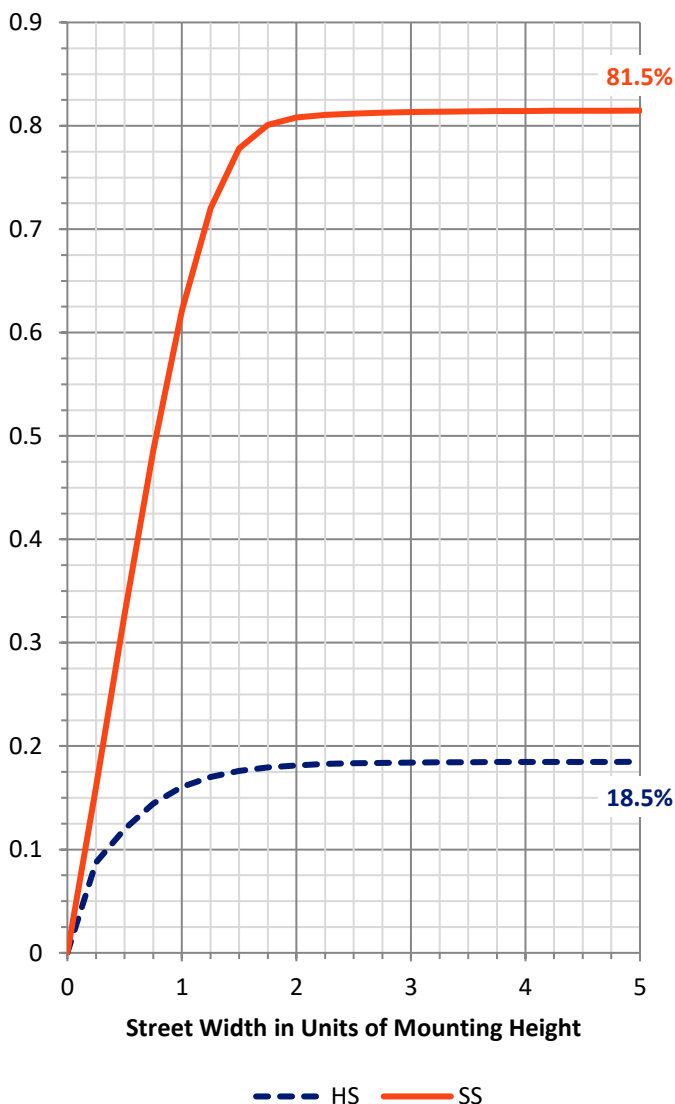
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4474.5 | 0.0 | 4474.5 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 19615.5 | 0.0 | 19615.5 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 24090.0 | 0.0 | 24090.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 552.3 | 2.3 |
| 10°-20° | 1461.6 | 6.1 |
| 20°-30° | 2561.9 | 10.6 |
| 30°-40° | 4224.3 | 17.5 |
| 40°-50° | 6146.8 | 25.5 |
| 50°-60° | 6965.0 | 28.9 |
| 60°-70° | 1991.4 | 8.3 |
| 70°-80° | 154.6 | 0.6 |
| 80°-90° | 32.2 | 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° | 24090.0 | 100.0 |
| 0°-180° | 24090.0 | 100.0 |

Coefficient of Utilization



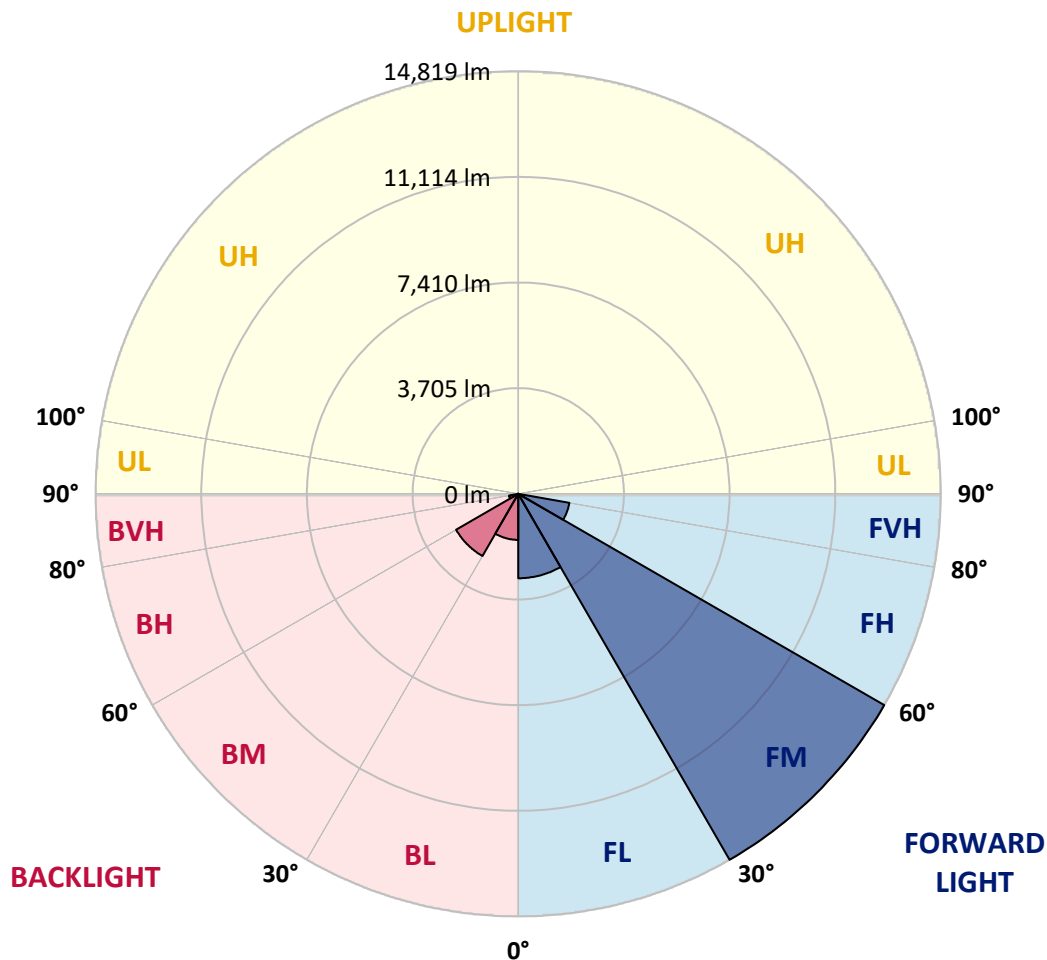
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2961.4 | 12.3 | | | |
| FM (30°-60°) | 14819.1 | 61.5 | | | |
| FH (60°-80°) | 1819.4 | 7.6 | | | G2/5000 |
| FVH (80°-90°) | 15.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1614.4 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 2516.9 | 10.4 | B3/5000 | | |
| BH (60°-80°) | 326.6 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 16.5 | 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° | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 |
| 2.5° | 5823.1 | 5879.1 | 5887.8 | 5956.7 | 5952.4 | 6068.6 | 6103.1 | 6107.4 | 6184.9 | 6146.2 | 6245.2 |
| 5° | 5659.5 | 5629.3 | 5616.4 | 5737.0 | 5771.5 | 5874.8 | 5961.0 | 6012.7 | 6172.0 | 6228.0 | 6331.4 |
| 7.5° | 5513.0 | 5513.0 | 5521.7 | 5629.3 | 5616.4 | 5749.9 | 5840.4 | 5999.7 | 6232.3 | 6279.7 | 6404.6 |
| 10° | 5370.9 | 5319.2 | 5383.8 | 5495.8 | 5590.6 | 5650.9 | 5840.4 | 5991.1 | 6262.5 | 6400.3 | 6572.6 |
| 12.5° | 5297.7 | 5323.5 | 5332.1 | 5414.0 | 5517.3 | 5698.2 | 5801.6 | 6051.4 | 6477.8 | 6559.7 | 6744.9 |
| 15° | 5758.5 | 5706.9 | 5582.0 | 5508.7 | 5594.9 | 5681.0 | 5939.4 | 6193.6 | 6589.8 | 6706.1 | 6912.8 |
| 17.5° | 6292.6 | 6249.5 | 6146.2 | 5948.1 | 5754.2 | 5913.6 | 6116.0 | 6348.6 | 6710.4 | 6882.7 | 7188.5 |
| 20° | 6990.4 | 6921.4 | 6818.1 | 6430.4 | 6262.5 | 6090.2 | 6305.5 | 6581.2 | 6908.5 | 7063.6 | 7378.0 |
| 22.5° | 7821.6 | 7821.6 | 7589.0 | 7119.6 | 6770.7 | 6607.0 | 6697.5 | 6856.8 | 7128.2 | 7339.2 | 7649.3 |
| 25° | 8687.3 | 8661.5 | 8450.5 | 7963.8 | 7373.7 | 7179.9 | 7283.2 | 7395.2 | 7468.4 | 7584.7 | 7791.5 |
| 27.5° | 9678.0 | 9527.2 | 9260.2 | 8721.8 | 8200.6 | 7825.9 | 7937.9 | 7838.9 | 7748.4 | 7808.7 | 8105.9 |
| 30° | 10349.9 | 10444.6 | 10104.4 | 9587.5 | 9096.5 | 8678.7 | 8700.3 | 8614.1 | 8200.6 | 8286.8 | 8463.4 |
| 32.5° | 11047.6 | 11107.9 | 10918.4 | 10634.1 | 10143.1 | 9656.4 | 9479.8 | 9406.6 | 9096.5 | 9135.3 | 8963.0 |
| 35° | 11629.1 | 11745.4 | 11577.4 | 11452.5 | 11310.3 | 10918.4 | 10431.7 | 10668.6 | 10169.0 | 10074.2 | 9626.3 |
| 37.5° | 12163.1 | 12128.7 | 12326.8 | 12197.6 | 12167.4 | 11891.8 | 11357.7 | 11405.1 | 11069.1 | 11047.6 | 10530.8 |
| 40° | 12641.2 | 12649.8 | 12921.2 | 12981.5 | 12860.9 | 12369.9 | 11594.6 | 11969.3 | 12240.7 | 12266.5 | 11603.2 |
| 42.5° | 13037.5 | 13153.8 | 13386.3 | 13873.0 | 13692.1 | 12873.8 | 11840.1 | 12249.3 | 13257.1 | 13416.5 | 12619.7 |
| 45° | 13382.0 | 13618.9 | 13907.5 | 14342.5 | 14239.1 | 13588.8 | 12451.7 | 12826.4 | 14342.5 | 14760.3 | 13575.9 |
| 47.5° | 13403.6 | 13713.7 | 14028.1 | 14674.2 | 14803.4 | 13972.1 | 13084.9 | 13739.5 | 15203.9 | 15656.2 | 14273.6 |
| 50° | 13317.4 | 13481.1 | 14109.9 | 14812.0 | 15104.9 | 14596.6 | 13972.1 | 14506.2 | 16039.5 | 16323.8 | 14626.8 |
| 52.5° | 12296.7 | 12421.6 | 13683.5 | 14941.2 | 15647.6 | 15303.0 | 15147.9 | 15574.3 | 16892.3 | 17103.3 | 14958.4 |
| 55° | 10250.8 | 10229.3 | 11965.0 | 14290.8 | 15897.4 | 16349.6 | 16254.8 | 16405.6 | 17878.6 | 18068.1 | 15040.3 |
| 57.5° | 7011.9 | 7403.8 | 8902.7 | 11900.4 | 14368.4 | 16104.1 | 16203.2 | 15953.4 | 16728.6 | 16801.8 | 13110.7 |
| 60° | 3781.6 | 3945.3 | 5151.2 | 7942.2 | 10939.9 | 13123.6 | 13382.0 | 12929.8 | 12869.5 | 12662.8 | 9359.2 |
| 62.5° | 1503.2 | 1585.0 | 2269.8 | 3932.3 | 5961.0 | 7976.7 | 8532.3 | 8347.1 | 7950.8 | 7408.1 | 4845.4 |
| 65° | 715.0 | 766.7 | 1128.4 | 1839.1 | 2644.5 | 3325.1 | 3880.7 | 4052.9 | 2989.1 | 2691.9 | 1597.9 |
| 67.5° | 486.7 | 525.5 | 822.6 | 1050.9 | 943.2 | 986.3 | 1283.5 | 1193.1 | 702.1 | 598.7 | 443.6 |
| 70° | 370.4 | 396.2 | 659.0 | 715.0 | 422.1 | 297.2 | 331.6 | 310.1 | 288.6 | 292.9 | 288.6 |
| 72.5° | 262.7 | 284.3 | 482.4 | 422.1 | 185.2 | 137.8 | 176.6 | 211.0 | 211.0 | 211.0 | 206.7 |
| 75° | 159.4 | 180.9 | 280.0 | 163.7 | 73.2 | 73.2 | 112.0 | 142.1 | 150.7 | 155.1 | 146.4 |
| 77.5° | 81.8 | 103.4 | 94.8 | 47.4 | 47.4 | 56.0 | 81.8 | 99.1 | 107.7 | 107.7 | 103.4 |
| 80° | 17.2 | 17.2 | 17.2 | 25.8 | 47.4 | 60.3 | 81.8 | 90.4 | 103.4 | 103.4 | 94.8 |
| 82.5° | 0.0 | 4.3 | 12.9 | 25.8 | 43.1 | 56.0 | 77.5 | 90.4 | 103.4 | 107.7 | 99.1 |
| 85° | 0.0 | 4.3 | 8.6 | 17.2 | 30.1 | 34.5 | 30.1 | 25.8 | 25.8 | 25.8 | 25.8 |
| 87.5° | 0.0 | 0.0 | 4.3 | 4.3 | 4.3 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 |
| 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-827-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 | 6193.6 |
| 2.5° | 6253.9 | 6266.8 | 6245.2 | 6240.9 | 6223.7 | 6275.4 | 6150.5 | 6120.3 | 6197.9 | 6124.6 | 6141.9 |
| 5° | 6335.7 | 6365.8 | 6327.1 | 6262.5 | 6167.7 | 6021.3 | 5896.4 | 5732.7 | 5655.2 | 5599.2 | 5590.6 |
| 7.5° | 6396.0 | 6417.5 | 6378.8 | 6172.0 | 5887.8 | 5517.3 | 5241.7 | 5039.3 | 4879.9 | 4832.5 | 4755.0 |
| 10° | 6641.5 | 6645.8 | 6452.0 | 5995.4 | 5439.8 | 4953.1 | 4531.0 | 4220.9 | 4061.6 | 3962.5 | 3919.4 |
| 12.5° | 6805.2 | 6796.5 | 6404.6 | 5646.6 | 4905.7 | 4259.7 | 3777.3 | 3402.6 | 3256.1 | 3208.8 | 3178.6 |
| 15° | 7011.9 | 6964.5 | 6292.6 | 5289.1 | 4216.6 | 3518.9 | 3083.9 | 2825.4 | 2812.5 | 2782.4 | 2812.5 |
| 17.5° | 7175.6 | 7042.0 | 6128.9 | 4638.7 | 3557.6 | 2898.7 | 2614.4 | 2631.6 | 2666.1 | 2696.2 | 2700.5 |
| 20° | 7442.6 | 7166.9 | 5754.2 | 4070.2 | 2946.0 | 2485.2 | 2480.9 | 2558.4 | 2644.5 | 2679.0 | 2713.4 |
| 22.5° | 7645.0 | 7218.6 | 5353.7 | 3462.9 | 2446.4 | 2317.2 | 2390.4 | 2506.7 | 2571.3 | 2605.8 | 2657.5 |
| 25° | 7718.3 | 7076.5 | 4819.6 | 2855.6 | 2205.2 | 2239.7 | 2351.7 | 2429.2 | 2511.0 | 2549.8 | 2528.2 |
| 27.5° | 7791.5 | 7003.3 | 4182.2 | 2351.7 | 2076.0 | 2188.0 | 2282.7 | 2360.3 | 2386.1 | 2437.8 | 2472.3 |
| 30° | 7968.1 | 6749.2 | 3609.3 | 2032.9 | 2011.4 | 2153.5 | 2222.4 | 2248.3 | 2317.2 | 2347.3 | 2347.3 |
| 32.5° | 8110.2 | 6650.1 | 3002.0 | 1882.2 | 2002.8 | 2170.8 | 2179.4 | 2179.4 | 2188.0 | 2166.5 | 2157.8 |
| 35° | 8403.1 | 6309.8 | 2459.3 | 1791.7 | 1998.5 | 2175.1 | 2196.6 | 2123.4 | 1925.3 | 1847.7 | 1826.2 |
| 37.5° | 8764.9 | 6090.2 | 2058.8 | 1770.2 | 2028.6 | 2226.8 | 2261.2 | 1985.6 | 1727.1 | 1602.2 | 1580.7 |
| 40° | 9204.2 | 5935.1 | 1796.0 | 1761.6 | 2097.5 | 2347.3 | 2244.0 | 1877.9 | 1541.9 | 1361.0 | 1352.4 |
| 42.5° | 9716.7 | 5793.0 | 1619.5 | 1757.3 | 2183.7 | 2472.3 | 2226.8 | 1787.4 | 1352.4 | 1231.8 | 1249.0 |
| 45° | 10125.9 | 5715.5 | 1498.9 | 1727.1 | 2213.8 | 2545.5 | 2239.7 | 1628.1 | 1274.9 | 1197.4 | 1206.0 |
| 47.5° | 10444.6 | 5551.8 | 1399.8 | 1675.4 | 2209.5 | 2571.3 | 2123.4 | 1563.5 | 1236.1 | 1257.7 | 1279.2 |
| 50° | 10453.2 | 5332.1 | 1274.9 | 1563.5 | 2144.9 | 2523.9 | 1989.9 | 1503.2 | 1227.5 | 1318.0 | 1361.0 |
| 52.5° | 10336.9 | 5022.0 | 1141.4 | 1404.1 | 1994.2 | 2360.3 | 1869.3 | 1477.3 | 1188.7 | 1180.1 | 1231.8 |
| 55° | 9923.5 | 4440.6 | 917.4 | 1137.1 | 1684.1 | 1946.8 | 1761.6 | 1429.9 | 1072.5 | 973.4 | 982.0 |
| 57.5° | 8019.7 | 3182.9 | 676.2 | 814.0 | 1193.1 | 1425.6 | 1589.3 | 1408.4 | 964.8 | 827.0 | 831.3 |
| 60° | 4966.0 | 1804.7 | 495.3 | 555.6 | 736.5 | 865.7 | 1287.8 | 1309.3 | 861.4 | 697.7 | 689.1 |
| 62.5° | 2549.8 | 891.6 | 383.3 | 391.9 | 452.2 | 508.2 | 882.9 | 1098.3 | 779.6 | 663.3 | 663.3 |
| 65° | 852.8 | 439.3 | 336.0 | 301.5 | 301.5 | 314.4 | 534.1 | 762.3 | 659.0 | 555.6 | 555.6 |
| 67.5° | 366.1 | 327.3 | 292.9 | 262.7 | 241.2 | 228.3 | 301.5 | 443.6 | 491.0 | 422.1 | 404.9 |
| 70° | 284.3 | 275.7 | 254.1 | 219.7 | 189.5 | 172.3 | 176.6 | 228.3 | 280.0 | 271.3 | 262.7 |
| 72.5° | 211.0 | 211.0 | 202.4 | 172.3 | 146.4 | 124.9 | 116.3 | 120.6 | 133.5 | 137.8 | 142.1 |
| 75° | 146.4 | 150.7 | 150.7 | 133.5 | 107.7 | 90.4 | 77.5 | 64.6 | 51.7 | 43.1 | 38.8 |
| 77.5° | 99.1 | 103.4 | 112.0 | 99.1 | 81.8 | 60.3 | 47.4 | 34.5 | 21.5 | 8.6 | 8.6 |
| 80° | 86.1 | 99.1 | 107.7 | 99.1 | 86.1 | 64.6 | 47.4 | 25.8 | 12.9 | 0.0 | 0.0 |
| 82.5° | 90.4 | 99.1 | 112.0 | 94.8 | 81.8 | 60.3 | 47.4 | 30.1 | 12.9 | 4.3 | 0.0 |
| 85° | 21.5 | 21.5 | 25.8 | 30.1 | 38.8 | 43.1 | 34.5 | 21.5 | 12.9 | 4.3 | 0.0 |
| 87.5° | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 4.3 | 4.3 | 4.3 | 4.3 | 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)