

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: P530690

Luminaire Tested: **GLAN-SA5D-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-830-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26873 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

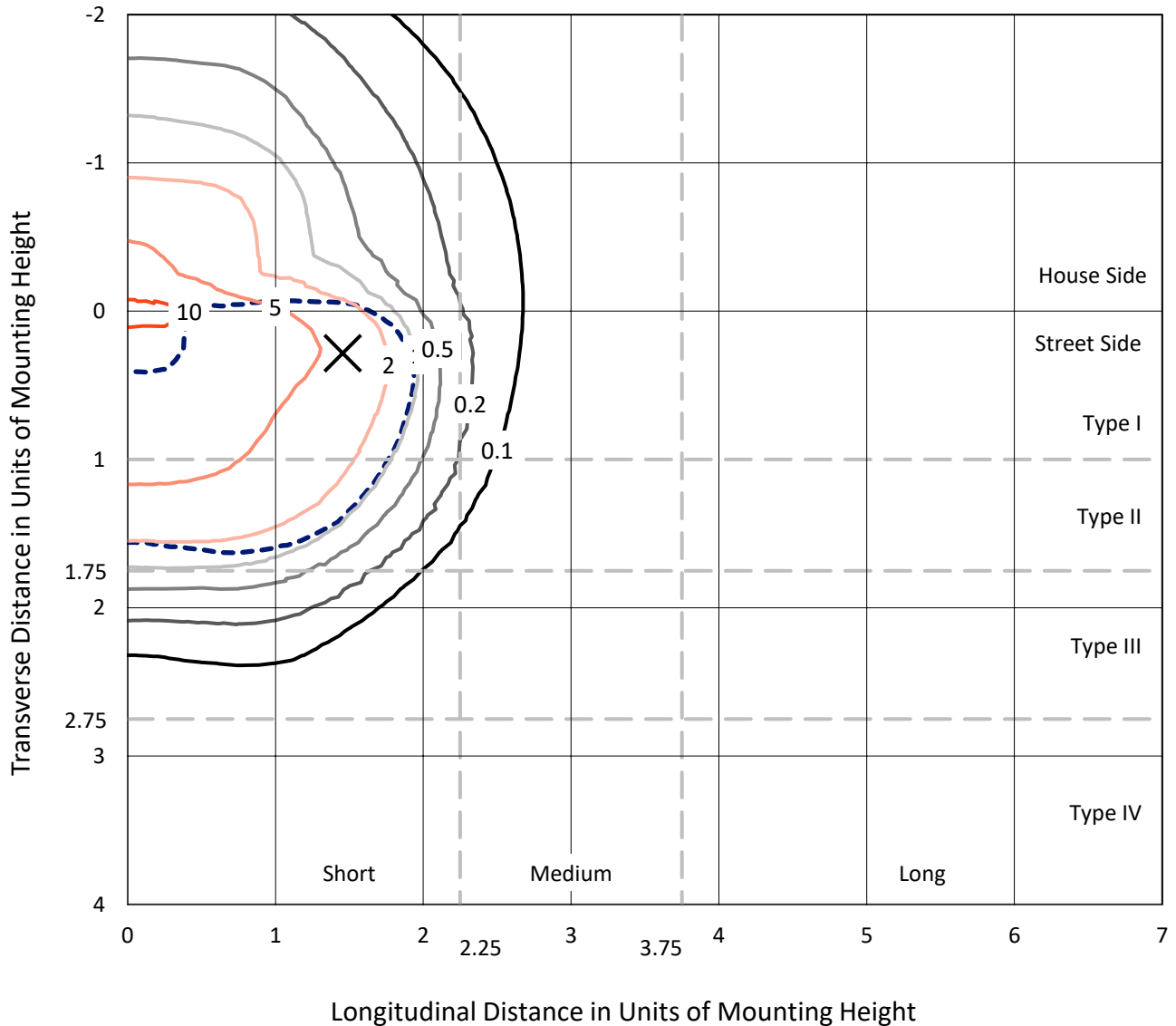
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P530690  
 CATALOG NUMBER: GLAN-SA5D-830-U-T3R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

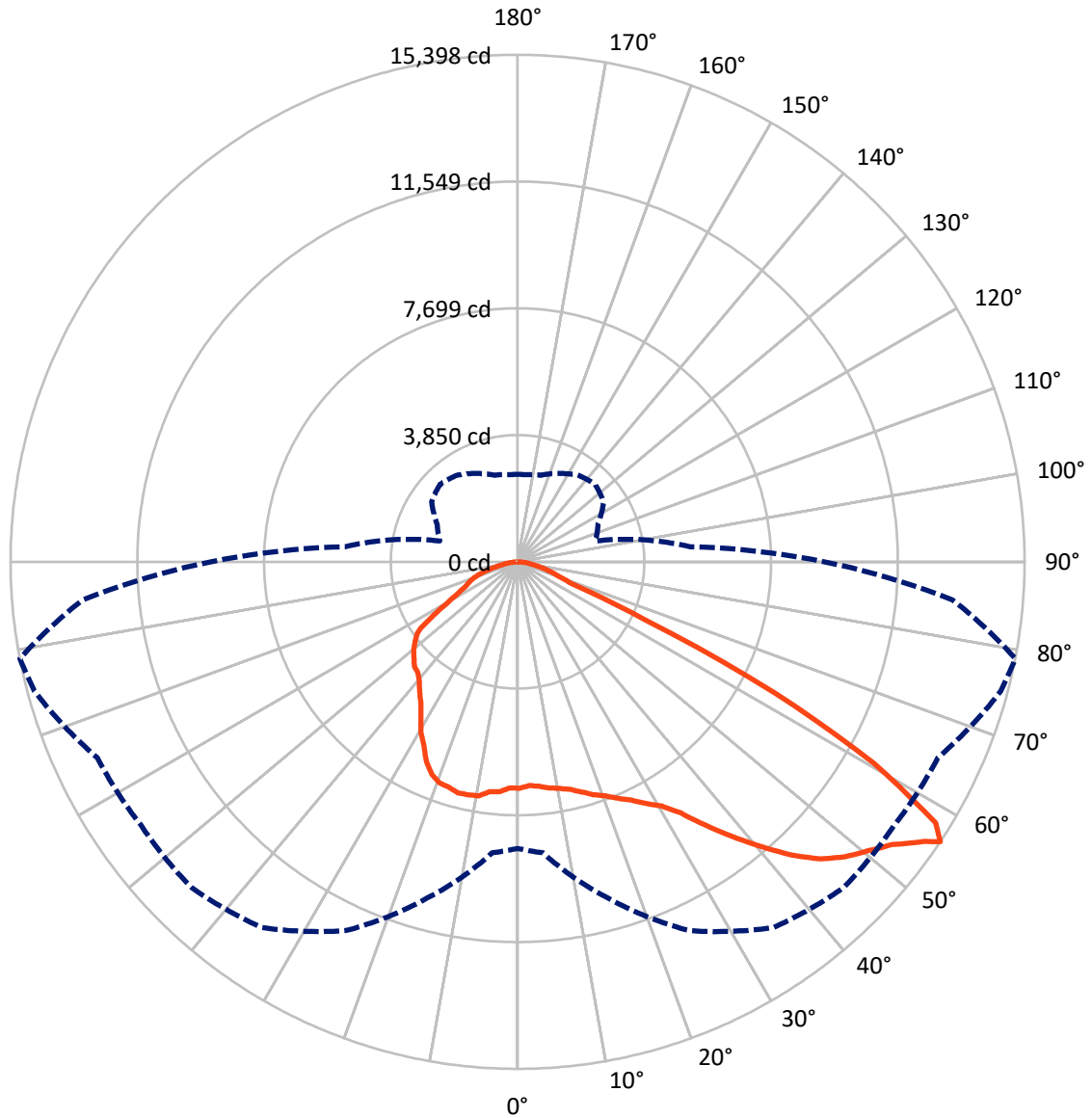
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - N/A

REPORT NUMBER: P530690  
CATALOG NUMBER: GLAN-SA5D-830-U-T3R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P530690  
 CATALOG NUMBER: GLAN-SA5D-830-U-T3R-GRSWH

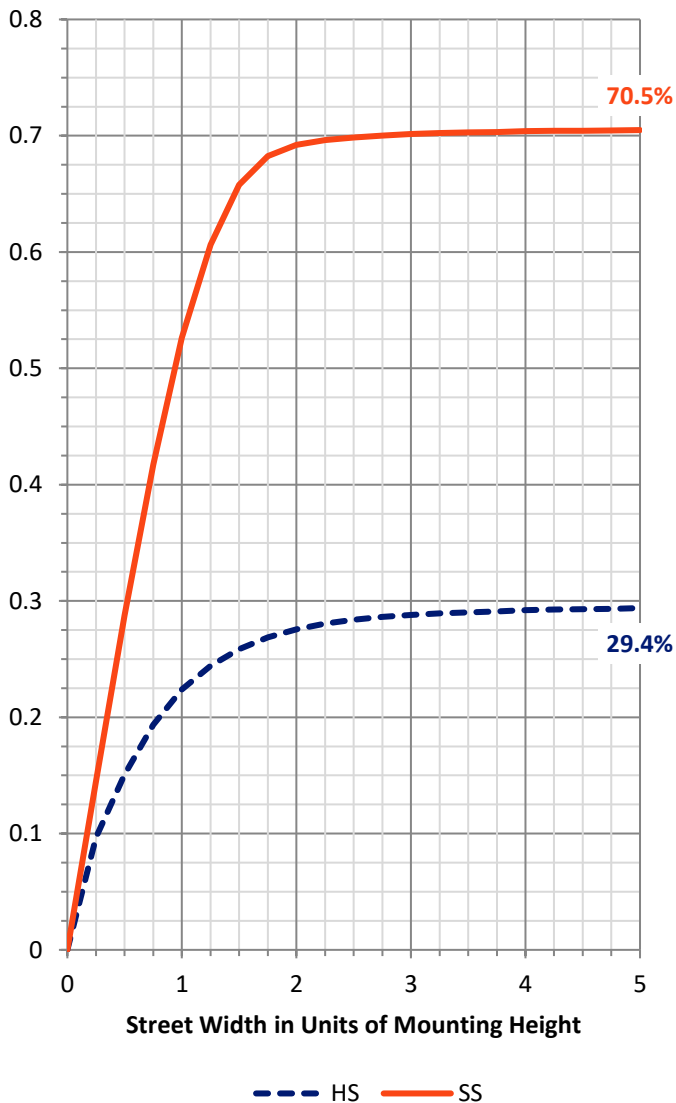
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7936.2   | 0.0    | 7936.2  |
|                    | % Fixture | 29.5     | 0.0    | 29.5    |
| <b>Street Side</b> | Lumens    | 18936.8  | 0.0    | 18936.8 |
|                    | % Fixture | 70.5     | 0.0    | 70.5    |
| <b>Total</b>       | Lumens    | 26873.0  | 0.0    | 26873.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 625.1   | 2.3       |
| 10°-20°   | 1710.8  | 6.4       |
| 20°-30°   | 2926.9  | 10.9      |
| 30°-40°   | 4485.8  | 16.7      |
| 40°-50°   | 6062.6  | 22.6      |
| 50°-60°   | 6963.1  | 25.9      |
| 60°-70°   | 3174.0  | 11.8      |
| 70°-80°   | 782.5   | 2.9       |
| 80°-90°   | 142.2   | 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°    | 26873.0 | 100.0     |
| 0°-180°   | 26873.0 | 100.0     |



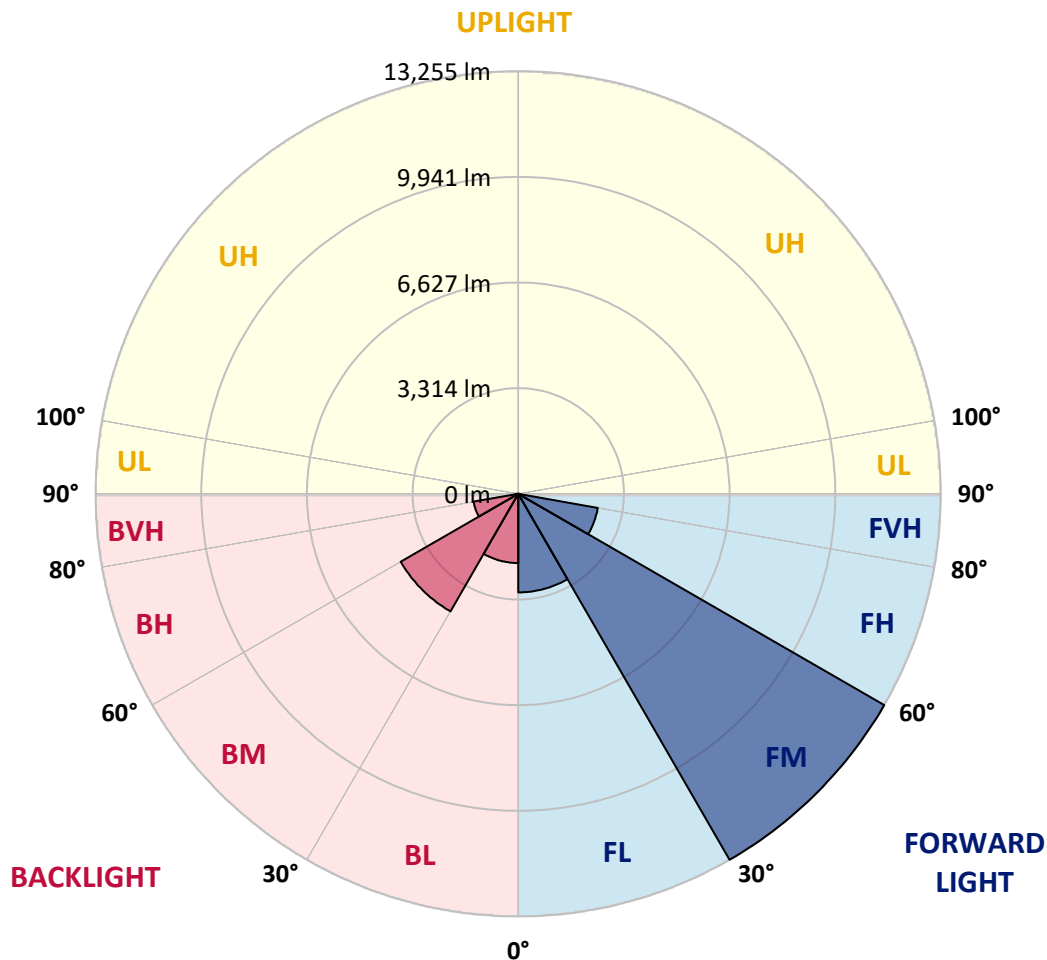
REPORT NUMBER: P530690  
 CATALOG NUMBER: GLAN-SA5D-830-U-T3R-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3092.0  | 11.5      |                         |      |         |
| FM (30°-60°)   | 13254.6 | 49.3      |                         |      |         |
| FH (60°-80°)   | 2533.5  | 9.4       |                         |      | G2/5000 |
| FVH (80°-90°)  | 56.8    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2170.9  | 8.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 4256.9  | 15.8      | B3/5000                 |      |         |
| BH (60°-80°)   | 1423.0  | 5.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 85.4    | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P530690

CATALOG NUMBER: GLAN-SA5D-830-U-T3R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6875.7  | 6875.7  | 6875.7  | 6875.7  | 6875.7  | 6875.7  | 6875.7  | 6875.7  | 6875.7  | 6875.7  | 6875.7  |
| 2.5°  | 6541.0  | 6524.3  | 6564.4  | 6594.5  | 6631.4  | 6678.2  | 6701.7  | 6715.1  | 6832.2  | 6802.1  | 6892.5  |
| 5°    | 6400.4  | 6356.9  | 6387.0  | 6410.4  | 6474.0  | 6530.9  | 6594.5  | 6695.0  | 6802.1  | 6849.0  | 6959.4  |
| 7.5°  | 6276.5  | 6253.1  | 6246.4  | 6263.1  | 6350.2  | 6423.8  | 6534.3  | 6681.6  | 6855.7  | 6932.6  | 6996.2  |
| 10°   | 6072.3  | 6038.9  | 6089.1  | 6199.5  | 6223.0  | 6377.0  | 6504.2  | 6715.1  | 6865.7  | 6999.6  | 7187.1  |
| 12.5° | 5982.0  | 5948.5  | 5958.5  | 6022.1  | 6186.2  | 6333.4  | 6484.1  | 6721.8  | 7039.8  | 7093.3  | 7344.4  |
| 15°   | 6125.9  | 6092.4  | 6102.5  | 6085.7  | 6243.1  | 6320.1  | 6557.7  | 6855.7  | 7160.3  | 7250.7  | 7518.5  |
| 17.5° | 6454.0  | 6457.3  | 6413.8  | 6377.0  | 6340.1  | 6504.2  | 6668.2  | 6936.0  | 7207.1  | 7434.8  | 7635.6  |
| 20°   | 7079.9  | 6969.5  | 6882.4  | 6674.9  | 6618.0  | 6688.3  | 6895.8  | 7153.6  | 7397.9  | 7585.4  | 7813.0  |
| 22.5° | 7562.0  | 7572.0  | 7448.2  | 7106.7  | 6982.9  | 7013.0  | 7190.4  | 7401.3  | 7669.1  | 7803.0  | 8064.1  |
| 25°   | 8261.6  | 8191.3  | 8057.4  | 7786.3  | 7508.4  | 7531.8  | 7662.4  | 7853.2  | 7926.8  | 8020.6  | 8305.1  |
| 27.5° | 8901.0  | 8921.1  | 8656.6  | 8402.2  | 8057.4  | 7990.4  | 8224.8  | 8258.2  | 8134.4  | 8311.8  | 8408.9  |
| 30°   | 9550.4  | 9533.6  | 9359.6  | 9061.6  | 8723.5  | 8736.9  | 8840.7  | 8676.7  | 8506.0  | 8603.0  | 8670.0  |
| 32.5° | 10223.2 | 10032.4 | 10025.7 | 9757.9  | 9500.2  | 9376.3  | 9249.1  | 9329.4  | 9065.0  | 9085.1  | 9021.5  |
| 35°   | 10762.2 | 10788.9 | 10635.0 | 10444.2 | 10317.0 | 10099.4 | 9751.2  | 9895.2  | 9845.0  | 9821.5  | 9547.0  |
| 37.5° | 11153.8 | 11050.1 | 11127.0 | 11063.4 | 10942.9 | 10671.8 | 10310.3 | 10447.5 | 10470.9 | 10584.8 | 10266.7 |
| 40°   | 11475.2 | 11431.7 | 11635.9 | 11669.3 | 11585.6 | 10999.8 | 10350.4 | 10758.8 | 11110.3 | 11358.0 | 10979.8 |
| 42.5° | 11629.2 | 11722.9 | 11937.1 | 12194.9 | 12007.4 | 11381.5 | 10558.0 | 10996.5 | 11779.8 | 12171.5 | 11655.9 |
| 45°   | 11836.7 | 11716.2 | 12034.2 | 12506.2 | 12509.6 | 11702.8 | 10758.8 | 11317.9 | 12302.0 | 12871.1 | 12117.9 |
| 47.5° | 11625.8 | 11686.1 | 12014.1 | 12613.3 | 12767.3 | 12040.9 | 11301.1 | 11773.1 | 12877.8 | 13383.2 | 12546.4 |
| 50°   | 11153.8 | 11274.3 | 11873.5 | 12496.2 | 12961.5 | 12399.1 | 11923.7 | 12265.2 | 13410.0 | 13795.0 | 12616.7 |
| 52.5° | 10661.7 | 10728.7 | 11666.0 | 12586.5 | 13048.5 | 12861.0 | 12757.3 | 12944.7 | 14059.4 | 14260.3 | 12703.7 |
| 55°   | 9322.7  | 9640.8  | 10979.8 | 12546.4 | 13473.6 | 13694.6 | 13614.2 | 13888.7 | 14795.9 | 14996.7 | 13179.1 |
| 56°   | 8703.5  | 8870.8  | 10568.0 | 12358.9 | 13557.3 | 13999.2 | 13959.0 | 14082.9 | 15187.5 | 15398.4 | 13252.7 |
| 57.5° | 7558.6  | 7572.0  | 9011.4  | 11528.7 | 13242.7 | 14089.6 | 14049.4 | 14146.5 | 15110.6 | 14966.6 | 12606.6 |
| 60°   | 4730.0  | 4937.5  | 6132.6  | 8867.5  | 11260.9 | 13071.9 | 13299.6 | 12519.6 | 12740.5 | 12435.9 | 9808.1  |
| 62.5° | 2450.4  | 2420.2  | 3213.6  | 5185.3  | 7474.9  | 9359.6  | 9570.5  | 9533.6  | 9192.2  | 8747.0  | 6407.1  |
| 65°   | 1221.8  | 1228.5  | 1680.4  | 2567.5  | 3829.5  | 4900.7  | 5489.9  | 5553.5  | 4646.3  | 4274.7  | 3039.5  |
| 67.5° | 887.1   | 920.6   | 1208.4  | 1570.0  | 1804.3  | 2018.5  | 2473.8  | 2426.9  | 1837.8  | 1747.4  | 1620.2  |
| 70°   | 689.6   | 719.7   | 980.8   | 1198.4  | 1087.9  | 1087.9  | 1185.0  | 1225.2  | 1308.9  | 1345.7  | 1389.2  |
| 72.5° | 502.1   | 525.6   | 749.8   | 826.8   | 713.0   | 766.6   | 887.1   | 980.8   | 1067.8  | 1081.2  | 1131.5  |
| 75°   | 344.8   | 364.9   | 492.1   | 455.3   | 428.5   | 528.9   | 649.4   | 736.4   | 800.0   | 833.5   | 863.7   |
| 77.5° | 224.3   | 231.0   | 281.2   | 237.7   | 274.5   | 341.4   | 421.8   | 495.4   | 559.0   | 585.8   | 592.5   |
| 80°   | 100.4   | 110.5   | 120.5   | 150.6   | 190.8   | 244.4   | 301.3   | 361.5   | 401.7   | 411.7   | 431.8   |
| 82.5° | 56.9    | 56.9    | 73.6    | 107.1   | 140.6   | 177.4   | 217.6   | 261.1   | 308.0   | 318.0   | 314.7   |
| 85°   | 30.1    | 30.1    | 43.5    | 63.6    | 87.0    | 103.8   | 100.4   | 103.8   | 110.5   | 127.2   | 123.9   |
| 87.5° | 10.0    | 10.0    | 13.4    | 13.4    | 16.7    | 20.1    | 16.7    | 23.4    | 30.1    | 30.1    | 30.1    |
| 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: P530690

CATALOG NUMBER: GLAN-SA5D-830-U-T3R-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6875.7  | 6875.7 | 6875.7 | 6875.7 | 6875.7 | 6875.7 | 6875.7 | 6875.7 | 6875.7 | 6875.7 | 6875.7 |
| 2.5°  | 6865.7  | 6895.8 | 6855.7 | 6942.7 | 6942.7 | 6925.9 | 6842.3 | 6869.0 | 6889.1 | 6889.1 | 6905.9 |
| 5°    | 6996.2  | 6986.2 | 7013.0 | 6909.2 | 6845.6 | 6822.2 | 6684.9 | 6618.0 | 6561.1 | 6557.7 | 6507.5 |
| 7.5°  | 7069.9  | 7043.1 | 7033.1 | 6956.1 | 6674.9 | 6504.2 | 6209.6 | 6038.9 | 6002.0 | 5871.5 | 5921.7 |
| 10°   | 7187.1  | 7237.3 | 7187.1 | 6768.6 | 6377.0 | 5985.3 | 5697.4 | 5433.0 | 5329.2 | 5245.5 | 5195.3 |
| 12.5° | 7428.1  | 7404.6 | 7113.4 | 6547.7 | 5998.7 | 5533.4 | 5104.9 | 4827.1 | 4723.3 | 4649.7 | 4643.0 |
| 15°   | 7632.3  | 7515.1 | 7069.9 | 6199.5 | 5409.5 | 4914.1 | 4562.6 | 4365.1 | 4318.3 | 4325.0 | 4355.1 |
| 17.5° | 7702.6  | 7622.2 | 6842.3 | 5838.0 | 4971.0 | 4388.6 | 4224.5 | 4194.4 | 4237.9 | 4288.1 | 4301.5 |
| 20°   | 7813.0  | 7685.8 | 6748.5 | 5345.9 | 4428.7 | 4060.5 | 4050.5 | 4157.6 | 4237.9 | 4311.6 | 4321.6 |
| 22.5° | 8044.0  | 7722.7 | 6443.9 | 4880.6 | 4057.2 | 3963.4 | 4060.5 | 4150.9 | 4274.7 | 4335.0 | 4281.4 |
| 25°   | 8111.0  | 7642.3 | 6015.4 | 4321.6 | 3822.8 | 3903.2 | 4006.9 | 4130.8 | 4217.8 | 4251.3 | 4274.7 |
| 27.5° | 8167.9  | 7518.5 | 5436.3 | 3950.0 | 3749.2 | 3899.8 | 4006.9 | 4110.7 | 4157.6 | 4187.7 | 4214.5 |
| 30°   | 8328.5  | 7481.6 | 4934.2 | 3702.3 | 3702.3 | 3832.9 | 3970.1 | 3996.9 | 4060.5 | 4097.3 | 4144.2 |
| 32.5° | 8408.9  | 7227.2 | 4418.7 | 3545.0 | 3655.5 | 3866.3 | 3876.4 | 3926.6 | 3929.9 | 3960.1 | 3909.9 |
| 35°   | 8619.8  | 7046.5 | 3940.0 | 3431.2 | 3675.5 | 3832.9 | 3883.1 | 3853.0 | 3688.9 | 3608.6 | 3625.3 |
| 37.5° | 8773.8  | 6956.1 | 3595.2 | 3417.8 | 3678.9 | 3869.7 | 3896.5 | 3668.8 | 3498.1 | 3364.2 | 3397.7 |
| 40°   | 9188.8  | 6731.8 | 3334.1 | 3394.4 | 3709.0 | 3909.9 | 3836.2 | 3588.5 | 3280.5 | 3143.3 | 3119.9 |
| 42.5° | 9506.9  | 6571.1 | 3170.1 | 3367.6 | 3732.4 | 3966.8 | 3806.1 | 3427.8 | 3113.2 | 2986.0 | 3019.4 |
| 45°   | 9875.1  | 6534.3 | 3083.0 | 3374.3 | 3772.6 | 3996.9 | 3769.3 | 3304.0 | 2969.2 | 2919.0 | 2909.0 |
| 47.5° | 10005.6 | 6269.8 | 2989.3 | 3317.4 | 3762.6 | 3986.9 | 3645.4 | 3210.2 | 2915.7 | 2922.4 | 2949.1 |
| 50°   | 9788.0  | 5998.7 | 2919.0 | 3200.2 | 3695.6 | 3896.5 | 3451.3 | 3086.4 | 2885.5 | 2969.2 | 3016.1 |
| 52.5° | 9510.2  | 5720.9 | 2775.1 | 3042.9 | 3558.4 | 3755.9 | 3360.9 | 3079.7 | 2855.4 | 2828.6 | 2838.7 |
| 55°   | 9593.9  | 5493.2 | 2574.2 | 2828.6 | 3337.4 | 3494.8 | 3260.5 | 3016.1 | 2781.8 | 2681.3 | 2714.8 |
| 56°   | 9322.7  | 5258.9 | 2443.7 | 2694.7 | 3186.8 | 3327.4 | 3210.2 | 2959.2 | 2721.5 | 2654.6 | 2654.6 |
| 57.5° | 8556.2  | 4472.2 | 2272.9 | 2480.5 | 2868.8 | 3036.2 | 3113.2 | 2925.7 | 2654.6 | 2537.4 | 2540.7 |
| 60°   | 6310.0  | 3180.1 | 2038.6 | 2185.9 | 2376.7 | 2510.6 | 2868.8 | 2832.0 | 2487.2 | 2406.8 | 2376.7 |
| 62.5° | 3889.8  | 2323.2 | 1871.2 | 1928.2 | 2025.2 | 2135.7 | 2503.9 | 2564.2 | 2309.8 | 2222.7 | 2202.6 |
| 65°   | 2179.2  | 1777.5 | 1744.0 | 1767.5 | 1814.3 | 1871.2 | 2078.8 | 2212.7 | 2038.6 | 1904.7 | 1898.0 |
| 67.5° | 1593.4  | 1590.1 | 1616.8 | 1636.9 | 1657.0 | 1657.0 | 1707.2 | 1760.8 | 1737.3 | 1630.2 | 1620.2 |
| 70°   | 1416.0  | 1426.0 | 1446.1 | 1449.5 | 1456.2 | 1432.7 | 1392.6 | 1375.8 | 1402.6 | 1335.6 | 1322.3 |
| 72.5° | 1168.3  | 1201.7 | 1225.2 | 1228.5 | 1191.7 | 1161.6 | 1108.0 | 1051.1 | 1031.0 | 1017.6 | 1014.3 |
| 75°   | 897.1   | 920.6  | 930.6  | 927.3  | 913.9  | 870.3  | 806.7  | 749.8  | 713.0  | 672.8  | 692.9  |
| 77.5° | 605.9   | 639.4  | 656.1  | 656.1  | 636.0  | 569.1  | 538.9  | 495.4  | 458.6  | 415.1  | 421.8  |
| 80°   | 425.1   | 448.6  | 475.3  | 472.0  | 438.5  | 405.0  | 361.5  | 321.4  | 291.2  | 257.8  | 254.4  |
| 82.5° | 318.0   | 331.4  | 344.8  | 338.1  | 314.7  | 281.2  | 251.1  | 214.2  | 180.8  | 157.3  | 157.3  |
| 85°   | 113.8   | 123.9  | 150.6  | 157.3  | 170.7  | 170.7  | 143.9  | 120.5  | 97.1   | 80.3   | 80.3   |
| 87.5° | 33.5    | 33.5   | 36.8   | 36.8   | 33.5   | 36.8   | 30.1   | 33.5   | 36.8   | 23.4   | 23.4   |
| 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)