

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: P532076

Luminaire Tested: **GLAN-SA7B-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-830-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28419 lumens  
Efficiency: N/A  
Efficacy: 99.4 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

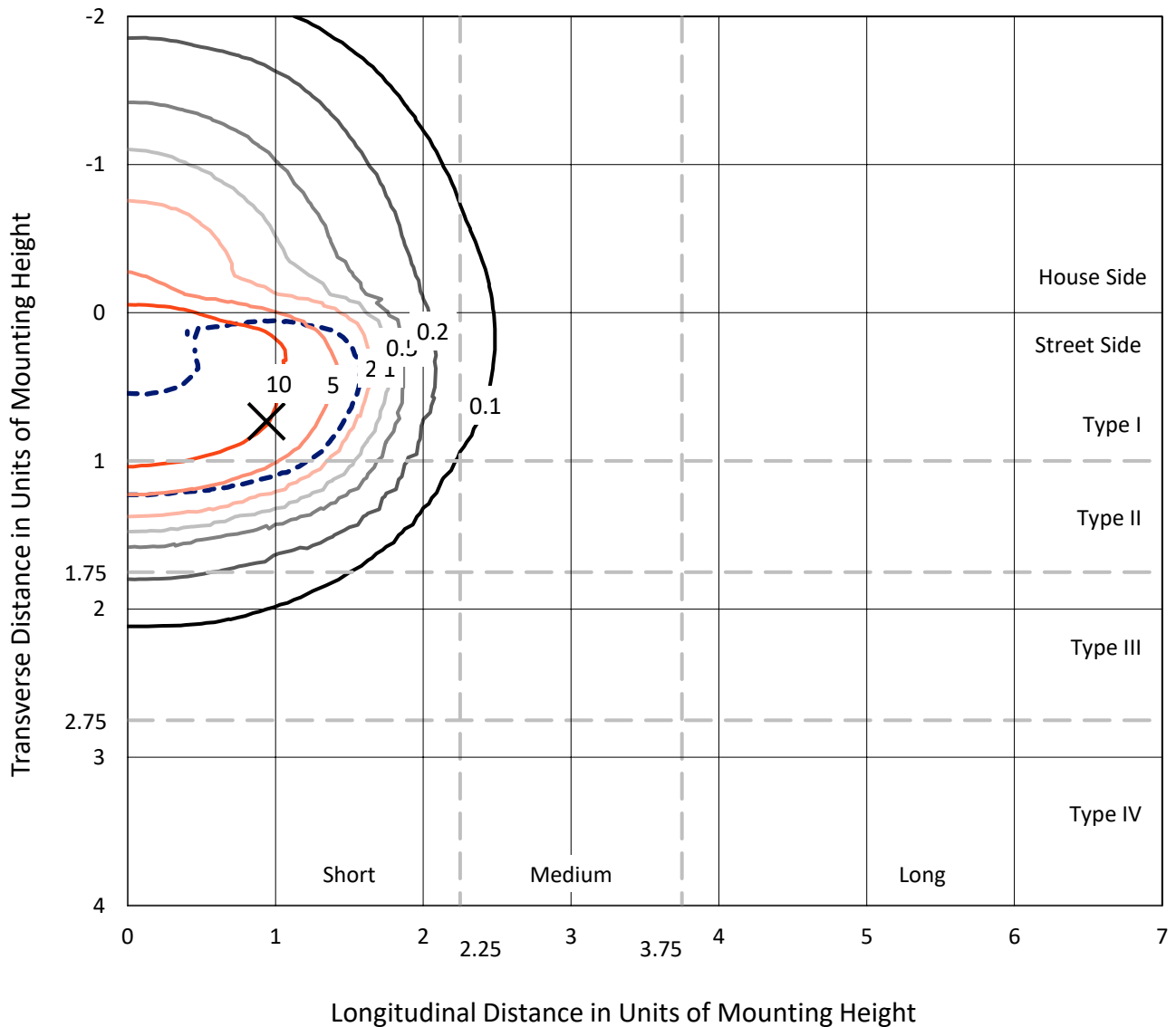
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P532076  
 CATALOG NUMBER: GLAN-SA7B-830-U-AFL-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

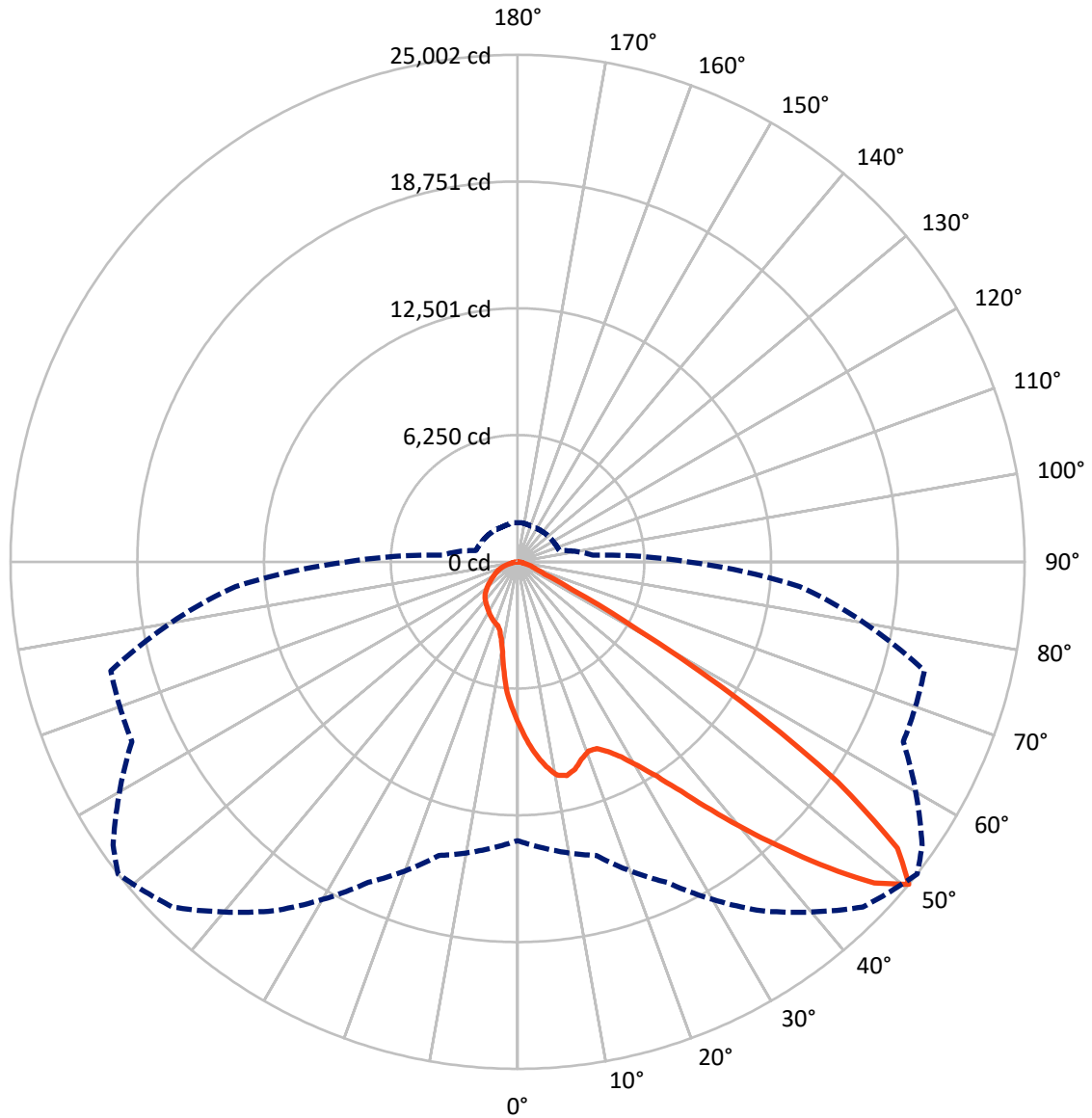
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P532076  
CATALOG NUMBER: GLAN-SA7B-830-U-AFL-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P532076  
 CATALOG NUMBER: GLAN-SA7B-830-U-AFL-GRSWH

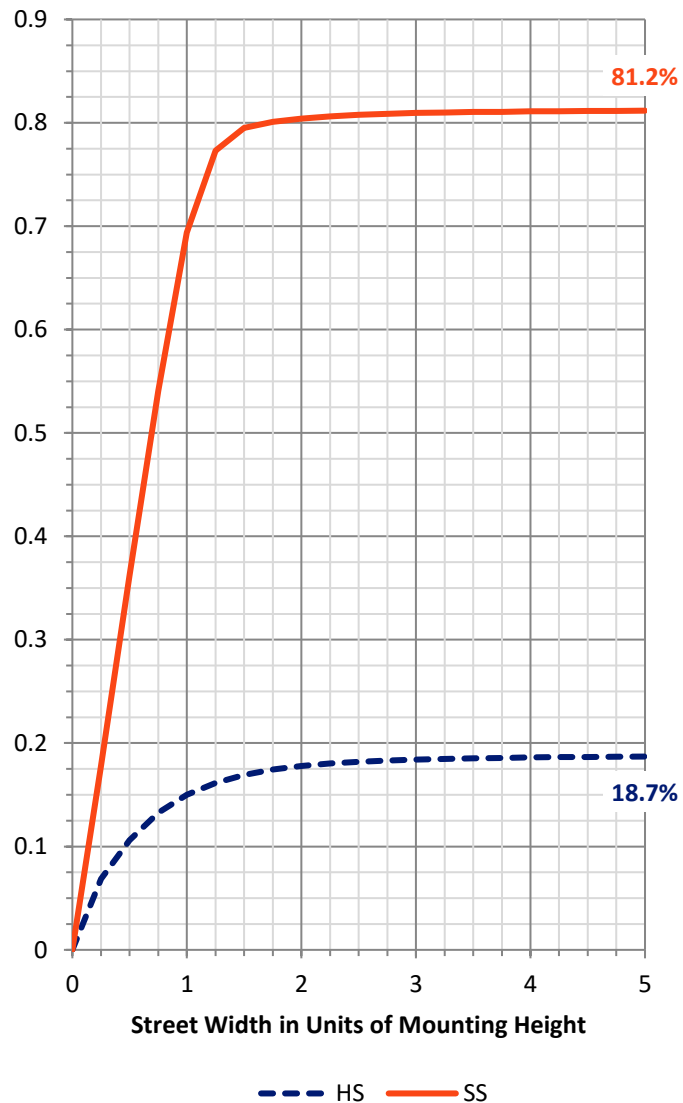
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5342.1   | 0.0    | 5342.1  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 23076.9  | 0.0    | 23076.9 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 28419.0  | 0.0    | 28419.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 738.4   | 2.6       |
| 10°-20°   | 1979.0  | 7.0       |
| 20°-30°   | 3333.5  | 11.7      |
| 30°-40°   | 5593.9  | 19.7      |
| 40°-50°   | 8557.3  | 30.1      |
| 50°-60°   | 6239.0  | 22.0      |
| 60°-70°   | 1388.5  | 4.9       |
| 70°-80°   | 500.8   | 1.8       |
| 80°-90°   | 88.6    | 0.3       |
| 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°    | 28419.0 | 100.0     |
| 0°-180°   | 28419.0 | 100.0     |

**Coefficient of Utilization**

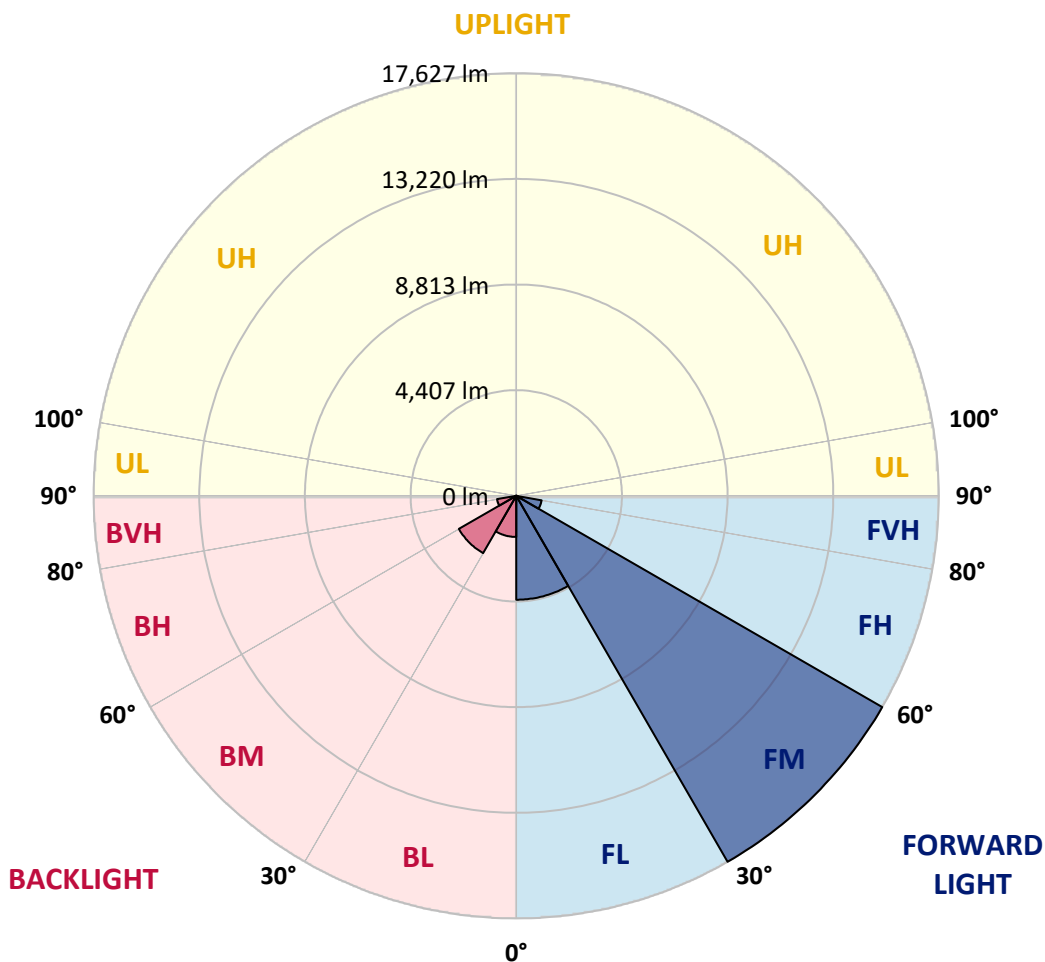


REPORT NUMBER: P532076  
 CATALOG NUMBER: GLAN-SA7B-830-U-AFL-GRSWH

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4334.9  | 15.3      |                         |      |         |
| FM (30°-60°)   | 17626.9 | 62.0      |                         |      |         |
| FH (60°-80°)   | 1075.4  | 3.8       |                         |      | G1/1800 |
| FVH (80°-90°)  | 39.7    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1716.0  | 6.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 2763.3  | 9.7       | B3/5000                 |      |         |
| BH (60°-80°)   | 813.9   | 2.9       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 48.9    | 0.2       |                         |      | 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





REPORT NUMBER: P532076

CATALOG NUMBER: GLAN-SA7B-830-U-AFL-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8010.8  | 8010.8  | 8010.8  | 8010.8  | 8010.8  | 8010.8  | 8010.8  | 8010.8  | 8010.8  | 8010.8  | 8010.8  |
| 2.5°  | 9432.2  | 9250.7  | 9271.2  | 9141.1  | 9000.6  | 8959.5  | 8815.7  | 8678.7  | 8576.0  | 8356.8  | 8154.7  |
| 5°    | 10309.0 | 10254.2 | 10172.0 | 10069.2 | 9963.0  | 9702.7  | 9555.5  | 9384.2  | 9007.5  | 8668.4  | 8332.8  |
| 7.5°  | 10435.7 | 10425.4 | 10469.9 | 10469.9 | 10507.6 | 10408.3 | 10199.4 | 10079.5 | 9678.8  | 9127.4  | 8504.0  |
| 10°   | 9545.2  | 9576.0  | 9791.8  | 10072.6 | 10463.1 | 10733.6 | 10699.4 | 10668.6 | 10230.2 | 9476.7  | 8706.1  |
| 12.5° | 8836.2  | 8767.7  | 8894.5  | 9134.2  | 9719.9  | 10374.0 | 10815.8 | 10819.3 | 10706.2 | 10035.0 | 8853.4  |
| 15°   | 8435.5  | 8483.5  | 8517.7  | 8630.8  | 9072.6  | 9829.5  | 10606.9 | 10836.4 | 11333.0 | 10428.8 | 9086.3  |
| 17.5° | 8692.4  | 8531.4  | 8524.6  | 8552.0  | 8778.0  | 9346.6  | 10219.9 | 10613.8 | 11675.5 | 10935.7 | 9374.0  |
| 20°   | 9028.0  | 9024.6  | 8928.7  | 8894.5  | 8891.0  | 9397.9  | 9966.5  | 10500.7 | 11857.0 | 11593.3 | 9665.1  |
| 22.5° | 9617.1  | 9617.1  | 9459.6  | 9384.2  | 9223.3  | 9637.7  | 10000.7 | 10363.8 | 12158.4 | 12045.4 | 9805.5  |
| 25°   | 10603.5 | 10442.5 | 10172.0 | 9987.0  | 9894.5  | 10041.8 | 10363.8 | 10689.1 | 12422.1 | 12524.9 | 10096.6 |
| 27.5° | 11514.5 | 11261.1 | 11127.5 | 10809.0 | 10685.7 | 10600.1 | 10894.6 | 11223.4 | 12730.4 | 13271.5 | 10254.2 |
| 30°   | 12548.8 | 12504.3 | 12264.6 | 11853.6 | 11548.8 | 11391.2 | 11661.8 | 11987.2 | 13295.5 | 14035.2 | 10617.2 |
| 32.5° | 14398.3 | 13994.1 | 13668.8 | 13165.3 | 12668.7 | 12333.1 | 12600.2 | 12816.0 | 14233.9 | 14833.2 | 11014.5 |
| 35°   | 16395.0 | 16264.9 | 15703.2 | 14795.6 | 14035.2 | 13733.9 | 13891.4 | 14052.4 | 15326.4 | 16052.5 | 11682.3 |
| 37.5° | 18357.5 | 18179.4 | 17717.0 | 16953.3 | 16028.5 | 15415.5 | 15528.5 | 15716.9 | 16552.5 | 17696.5 | 12497.5 |
| 40°   | 19768.5 | 19549.3 | 19316.4 | 19203.4 | 18285.5 | 17446.4 | 17381.4 | 17429.3 | 18210.2 | 19237.7 | 13401.6 |
| 42.5° | 19871.3 | 20141.8 | 20213.8 | 20669.3 | 20453.5 | 19765.1 | 19364.4 | 19374.7 | 19792.5 | 20761.8 | 14316.1 |
| 45°   | 19655.5 | 19405.5 | 19936.4 | 21179.6 | 21892.0 | 22213.9 | 21539.2 | 21453.6 | 20772.0 | 21645.4 | 14771.6 |
| 47.5° | 17391.7 | 17460.1 | 18357.5 | 20323.4 | 22381.7 | 23820.2 | 23662.6 | 23378.4 | 21296.0 | 21614.6 | 14699.7 |
| 50°   | 13747.6 | 14162.0 | 14994.2 | 17443.0 | 21011.8 | 24073.6 | 25001.8 | 24344.2 | 20984.4 | 20765.2 | 13966.7 |
| 52.5° | 9154.8  | 9326.0  | 9874.0  | 13035.2 | 16895.0 | 21518.7 | 23460.6 | 23611.3 | 20696.7 | 19652.1 | 13038.6 |
| 55°   | 4075.6  | 4061.9  | 4832.5  | 6808.7  | 10600.1 | 16374.5 | 19169.2 | 20087.0 | 19590.4 | 18518.4 | 12134.4 |
| 57.5° | 1726.2  | 1784.4  | 2099.5  | 2942.0  | 5212.7  | 9880.8  | 12987.2 | 13792.1 | 15066.1 | 15206.6 | 9308.9  |
| 60°   | 1167.9  | 1174.7  | 1260.4  | 1472.7  | 2181.7  | 4640.7  | 6812.1  | 7778.0  | 8689.0  | 8627.3  | 4938.7  |
| 62.5° | 917.9   | 941.8   | 1006.9  | 1092.5  | 1294.6  | 2106.3  | 3048.2  | 3585.9  | 3644.1  | 3065.3  | 1873.4  |
| 65°   | 784.3   | 787.7   | 852.8   | 924.7   | 1013.8  | 1226.1  | 1469.3  | 1496.7  | 1513.8  | 1459.0  | 1376.8  |
| 67.5° | 647.3   | 654.2   | 705.5   | 787.7   | 869.9   | 938.4   | 1006.9  | 1041.2  | 1119.9  | 1274.1  | 1253.5  |
| 70°   | 513.7   | 524.0   | 568.5   | 637.0   | 712.4   | 753.5   | 839.1   | 869.9   | 941.8   | 1061.7  | 1109.7  |
| 72.5° | 390.4   | 393.9   | 431.5   | 479.5   | 548.0   | 589.1   | 661.0   | 695.3   | 743.2   | 846.0   | 890.5   |
| 75°   | 280.8   | 291.1   | 318.5   | 342.5   | 352.8   | 380.2   | 448.7   | 486.3   | 554.8   | 599.4   | 602.8   |
| 77.5° | 147.3   | 154.1   | 161.0   | 161.0   | 195.2   | 246.6   | 291.1   | 311.7   | 359.6   | 393.9   | 376.7   |
| 80°   | 58.2    | 61.6    | 78.8    | 106.2   | 137.0   | 178.1   | 208.9   | 219.2   | 260.3   | 280.8   | 291.1   |
| 82.5° | 34.2    | 37.7    | 51.4    | 75.3    | 99.3    | 126.7   | 150.7   | 161.0   | 188.4   | 212.3   | 219.2   |
| 85°   | 17.1    | 20.5    | 30.8    | 47.9    | 65.1    | 78.8    | 75.3    | 71.9    | 71.9    | 68.5    | 71.9    |
| 87.5° | 6.8     | 6.8     | 10.3    | 10.3    | 10.3    | 13.7    | 17.1    | 17.1    | 17.1    | 20.5    | 20.5    |
| 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: P532076  
 CATALOG NUMBER: GLAN-SA7B-830-U-AFL-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8010.8 | 8010.8 | 8010.8 | 8010.8 | 8010.8 | 8010.8 | 8010.8 | 8010.8 | 8010.8 | 8010.8 | 8010.8 |
| 2.5°  | 8021.1 | 7884.1 | 7757.4 | 7524.5 | 7271.1 | 7199.1 | 6904.6 | 6798.4 | 6723.1 | 6634.0 | 6606.6 |
| 5°    | 8062.2 | 7880.7 | 7473.1 | 7003.9 | 6630.6 | 6151.1 | 5836.0 | 5497.0 | 5250.4 | 5188.7 | 5171.6 |
| 7.5°  | 8147.8 | 7836.2 | 7134.1 | 6425.1 | 5661.4 | 5010.6 | 4514.0 | 4246.9 | 4010.6 | 3996.9 | 3972.9 |
| 10°   | 8243.7 | 7702.6 | 6764.2 | 5651.1 | 4675.0 | 4072.2 | 3774.2 | 3657.8 | 3599.6 | 3585.9 | 3579.0 |
| 12.5° | 8322.5 | 7675.2 | 6349.8 | 4897.6 | 3976.3 | 3613.3 | 3524.2 | 3513.9 | 3537.9 | 3544.8 | 3558.5 |
| 15°   | 8356.8 | 7565.6 | 5849.7 | 4222.9 | 3541.3 | 3407.8 | 3445.5 | 3486.5 | 3503.7 | 3548.2 | 3513.9 |
| 17.5° | 8421.8 | 7425.2 | 5233.2 | 3688.6 | 3298.2 | 3322.2 | 3387.2 | 3435.2 | 3462.6 | 3493.4 | 3448.9 |
| 20°   | 8456.1 | 7298.5 | 4654.4 | 3370.1 | 3212.6 | 3257.1 | 3346.1 | 3383.8 | 3418.1 | 3431.8 | 3380.4 |
| 22.5° | 8425.3 | 7038.2 | 4144.1 | 3113.2 | 3130.4 | 3188.6 | 3267.4 | 3308.5 | 3287.9 | 3233.1 | 3202.3 |
| 25°   | 8343.1 | 6671.7 | 3613.3 | 2948.8 | 3013.9 | 3116.7 | 3178.3 | 3147.5 | 3109.8 | 3079.0 | 3068.7 |
| 27.5° | 8339.6 | 6223.0 | 3229.7 | 2798.1 | 2914.6 | 3055.0 | 3034.5 | 3007.1 | 3024.2 | 3000.2 | 2972.8 |
| 30°   | 8356.8 | 5788.1 | 2914.6 | 2712.5 | 2842.7 | 2911.2 | 2935.1 | 2907.7 | 2928.3 | 2883.8 | 2897.5 |
| 32.5° | 8267.7 | 5363.4 | 2709.1 | 2613.2 | 2757.0 | 2753.6 | 2832.4 | 2852.9 | 2805.0 | 2712.5 | 2726.2 |
| 35°   | 8305.4 | 5020.9 | 2534.4 | 2568.7 | 2661.1 | 2661.1 | 2722.8 | 2698.8 | 2572.1 | 2517.3 | 2531.0 |
| 37.5° | 8565.7 | 4685.3 | 2448.8 | 2507.0 | 2568.7 | 2596.1 | 2575.5 | 2472.8 | 2442.0 | 2442.0 | 2448.8 |
| 40°   | 8812.3 | 4397.6 | 2397.4 | 2493.3 | 2483.1 | 2500.2 | 2349.5 | 2359.8 | 2359.8 | 2363.2 | 2346.1 |
| 42.5° | 9031.5 | 4202.4 | 2356.3 | 2411.1 | 2428.3 | 2339.2 | 2246.7 | 2236.5 | 2260.4 | 2257.0 | 2243.3 |
| 45°   | 9110.2 | 4041.4 | 2298.1 | 2318.7 | 2332.4 | 2185.1 | 2140.6 | 2120.0 | 2147.4 | 2157.7 | 2171.4 |
| 47.5° | 8808.8 | 3907.8 | 2233.0 | 2191.9 | 2164.5 | 2068.6 | 2010.4 | 1972.7 | 2007.0 | 2065.2 | 2078.9 |
| 50°   | 8421.8 | 3733.1 | 2130.3 | 2051.5 | 1993.3 | 1952.2 | 1911.1 | 1873.4 | 1897.4 | 1938.5 | 1928.2 |
| 52.5° | 7849.9 | 3459.2 | 2000.1 | 1917.9 | 1818.6 | 1828.9 | 1791.2 | 1770.7 | 1784.4 | 1784.4 | 1774.1 |
| 55°   | 7034.7 | 2842.7 | 1780.9 | 1722.7 | 1640.5 | 1667.9 | 1674.8 | 1647.4 | 1620.0 | 1644.0 | 1623.4 |
| 57.5° | 4801.7 | 2007.0 | 1589.2 | 1589.2 | 1507.0 | 1544.6 | 1541.2 | 1476.1 | 1411.1 | 1417.9 | 1404.2 |
| 60°   | 2777.6 | 1599.4 | 1465.9 | 1452.2 | 1366.5 | 1397.4 | 1404.2 | 1359.7 | 1260.4 | 1267.2 | 1253.5 |
| 62.5° | 1578.9 | 1366.5 | 1280.9 | 1260.4 | 1243.2 | 1270.6 | 1270.6 | 1212.4 | 1126.8 | 1133.6 | 1119.9 |
| 65°   | 1342.6 | 1267.2 | 1143.9 | 1140.5 | 1133.6 | 1140.5 | 1113.1 | 1051.4 | 976.1  | 945.3  | 948.7  |
| 67.5° | 1219.3 | 1171.3 | 1051.4 | 1020.6 | 1000.1 | 996.6  | 945.3  | 887.0  | 852.8  | 825.4  | 822.0  |
| 70°   | 1068.6 | 1030.9 | 941.8  | 900.7  | 880.2  | 832.3  | 780.9  | 743.2  | 695.3  | 681.6  | 695.3  |
| 72.5° | 846.0  | 842.5  | 808.3  | 763.8  | 719.2  | 681.6  | 637.0  | 585.7  | 541.1  | 530.9  | 506.9  |
| 75°   | 585.7  | 592.5  | 599.4  | 592.5  | 554.8  | 506.9  | 455.5  | 414.4  | 359.6  | 328.8  | 321.9  |
| 77.5° | 383.6  | 393.9  | 404.1  | 390.4  | 366.5  | 321.9  | 287.7  | 236.3  | 195.2  | 171.2  | 167.8  |
| 80°   | 280.8  | 294.5  | 301.4  | 291.1  | 263.7  | 229.5  | 191.8  | 150.7  | 119.9  | 99.3   | 99.3   |
| 82.5° | 215.8  | 229.5  | 236.3  | 219.2  | 191.8  | 164.4  | 137.0  | 106.2  | 82.2   | 65.1   | 61.6   |
| 85°   | 75.3   | 71.9   | 85.6   | 89.0   | 106.2  | 99.3   | 82.2   | 61.6   | 47.9   | 34.2   | 30.8   |
| 87.5° | 20.5   | 20.5   | 24.0   | 24.0   | 20.5   | 17.1   | 17.1   | 17.1   | 13.7   | 10.3   | 10.3   |
| 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)