

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: P459303

Luminaire Tested: **GLAN-SA7D-735-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7D-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50103 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

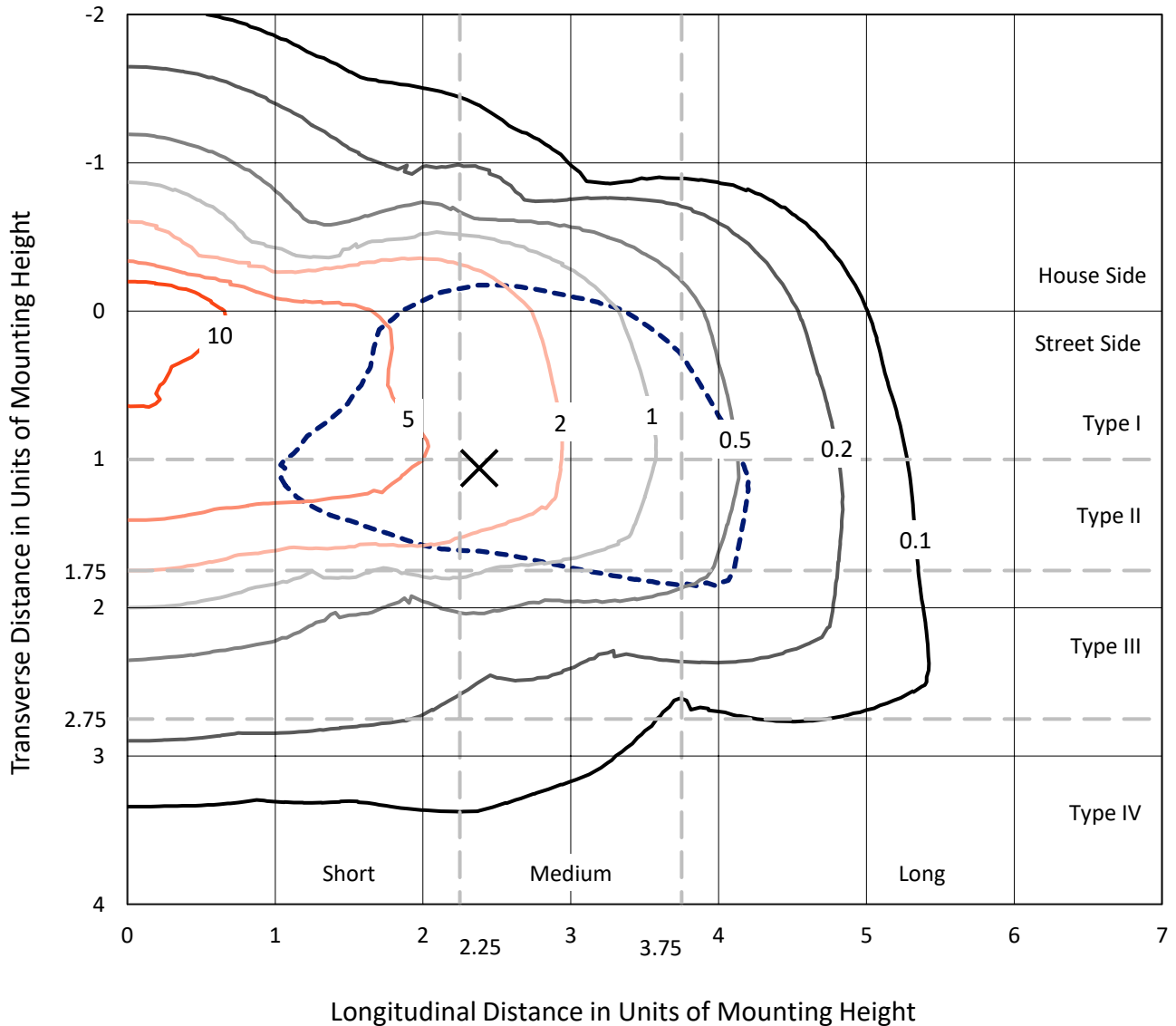
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

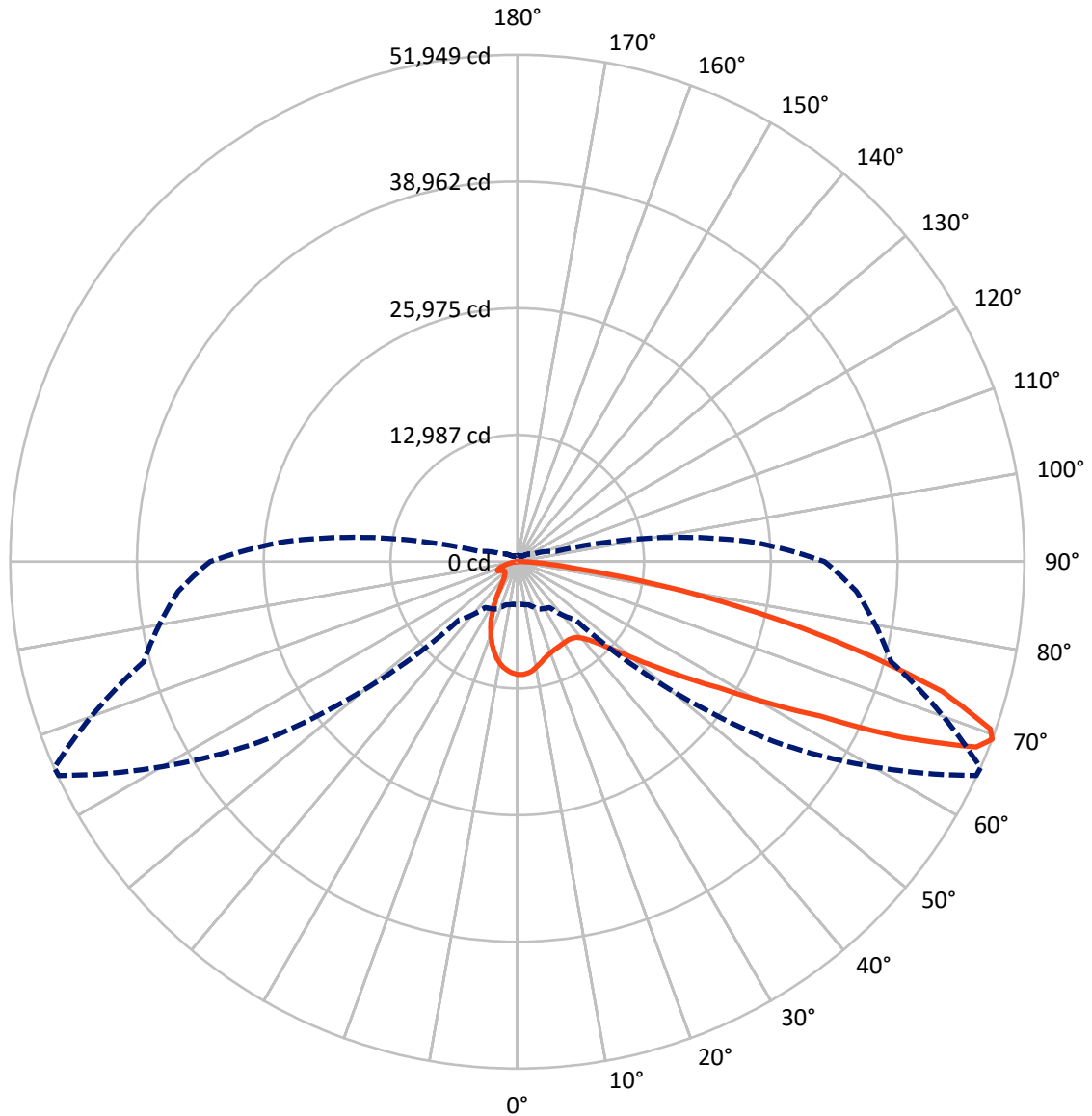
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc  
 Type III - Medium - N/A

REPORT NUMBER: P459303  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9422.5   | 0.0    | 9422.5  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 40680.5  | 0.0    | 40680.5 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 50103.0  | 0.0    | 50103.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1004.7  | 2.0       |
| 10°-20°   | 2383.2  | 4.8       |
| 20°-30°   | 3244.4  | 6.5       |
| 30°-40°   | 4359.7  | 8.7       |
| 40°-50°   | 6509.8  | 13.0      |
| 50°-60°   | 10354.9 | 20.7      |
| 60°-70°   | 12736.0 | 25.4      |
| 70°-80°   | 8286.6  | 16.5      |
| 80°-90°   | 1223.7  | 2.4       |
| 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°    | 50103.0 | 100.0     |
| 0°-180°   | 50103.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P459303

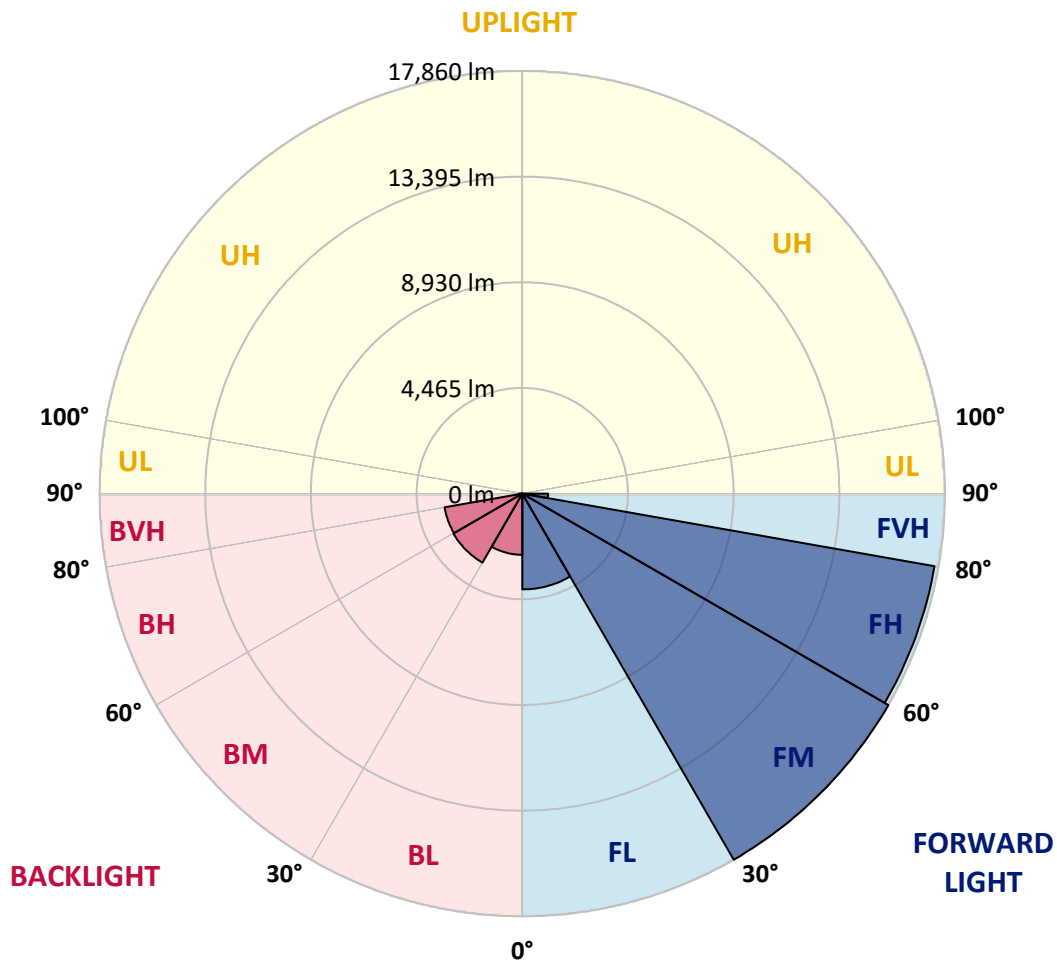
CATALOG NUMBER: GLAN-SA7D-735-U-SL2

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4045.8  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 17860.2 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 17686.6 | 35.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 1087.9  | 2.2       |                         |      | G5      |
| BL   | (0°-30°)    | 2586.5  | 5.2       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 3364.2  | 6.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3336.0  | 6.7       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 135.8   | 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-G5**

Type III Medium





REPORT NUMBER: P459303  
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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11570.2 | 11570.2 | 11570.2 | 11570.2 | 11570.2 | 11570.2 | 11570.2 | 11570.2 | 11570.2 | 11570.2 | 11570.2 |
| 2.5°  | 11165.1 | 11209.5 | 11259.4 | 11314.9 | 11420.3 | 11478.6 | 11520.2 | 11567.4 | 11572.9 | 11597.9 | 11578.5 |
| 5°    | 10341.0 | 10393.7 | 10468.6 | 10574.1 | 10732.2 | 10979.2 | 11234.4 | 11442.5 | 11467.5 | 11584.0 | 11617.3 |
| 7.5°  | 9652.9  | 9683.4  | 9744.5  | 9913.7  | 10138.5 | 10413.2 | 10785.0 | 11206.7 | 11267.7 | 11545.2 | 11642.3 |
| 10°   | 9092.4  | 9123.0  | 9195.1  | 9369.9  | 9591.9  | 9935.9  | 10343.8 | 10898.7 | 10948.7 | 11425.9 | 11647.9 |
| 12.5° | 8673.5  | 8701.2  | 8778.9  | 8950.9  | 9206.2  | 9528.1  | 9977.5  | 10565.8 | 10637.9 | 11267.7 | 11595.1 |
| 15°   | 8354.4  | 8407.1  | 8470.9  | 8612.4  | 8881.6  | 9192.3  | 9627.9  | 10260.6 | 10318.8 | 11101.3 | 11559.1 |
| 17.5° | 8218.4  | 8243.4  | 8287.8  | 8418.2  | 8615.2  | 8920.4  | 9358.8  | 10021.9 | 10091.3 | 10984.7 | 11550.8 |
| 20°   | 8224.0  | 8249.0  | 8257.3  | 8329.4  | 8470.9  | 8734.5  | 9167.4  | 9833.3  | 9916.5  | 10882.1 | 11564.6 |
| 22.5° | 8412.7  | 8415.4  | 8384.9  | 8359.9  | 8415.4  | 8634.6  | 9031.4  | 9691.8  | 9788.9  | 10837.7 | 11575.7 |
| 25°   | 8704.0  | 8753.9  | 8709.5  | 8593.0  | 8490.3  | 8595.8  | 8978.7  | 9614.1  | 9705.6  | 10773.9 | 11561.9 |
| 27.5° | 9175.7  | 9184.0  | 9147.9  | 8989.8  | 8723.4  | 8645.7  | 8956.5  | 9555.8  | 9633.5  | 10726.7 | 11492.5 |
| 30°   | 9808.3  | 9783.3  | 9750.0  | 9575.2  | 9156.3  | 8837.2  | 9003.6  | 9503.1  | 9583.5  | 10657.3 | 11409.2 |
| 32.5° | 10449.2 | 10526.9 | 10496.4 | 10291.1 | 9747.2  | 9209.0  | 9156.3  | 9497.5  | 9564.1  | 10604.6 | 11317.7 |
| 35°   | 11129.0 | 11165.1 | 11309.4 | 11203.9 | 10646.2 | 9811.1  | 9442.0  | 9583.5  | 9636.3  | 10607.4 | 11253.9 |
| 37.5° | 11661.7 | 11758.8 | 12097.4 | 12188.9 | 11664.5 | 10607.4 | 9905.4  | 9827.7  | 9849.9  | 10743.3 | 11278.8 |
| 40°   | 12305.4 | 12471.9 | 12907.5 | 13282.1 | 12938.1 | 11642.3 | 10693.4 | 10280.0 | 10307.7 | 11070.7 | 11442.5 |
| 42.5° | 13121.2 | 13237.7 | 13823.2 | 14330.9 | 14275.4 | 13010.2 | 11647.9 | 11020.8 | 11034.7 | 11722.8 | 11900.4 |
| 45°   | 14075.7 | 14242.1 | 14899.7 | 15662.7 | 15793.1 | 14558.4 | 13026.9 | 12141.7 | 12133.4 | 12735.5 | 12754.9 |
| 47.5° | 15296.5 | 15399.2 | 16051.2 | 16883.6 | 17410.8 | 16503.5 | 14699.9 | 13751.0 | 13662.2 | 14211.6 | 14053.5 |
| 50°   | 16420.2 | 16581.1 | 17075.0 | 17985.1 | 19297.5 | 18781.4 | 16900.2 | 15837.5 | 15629.4 | 16142.8 | 15876.4 |
| 52.5° | 16891.9 | 17061.2 | 17477.3 | 18606.6 | 20915.1 | 21728.1 | 19694.3 | 18326.4 | 17979.6 | 18373.5 | 18276.4 |
| 55°   | 16073.4 | 16292.6 | 16681.0 | 18054.5 | 21625.4 | 25127.0 | 23462.2 | 21203.7 | 20951.2 | 20781.9 | 20809.7 |
| 57.5° | 13873.1 | 14081.2 | 14605.6 | 16120.6 | 20776.4 | 27593.6 | 28842.2 | 24902.2 | 24361.2 | 23581.5 | 23714.7 |
| 60°   | 10560.2 | 10690.6 | 10962.5 | 12641.2 | 18259.8 | 28234.6 | 34951.9 | 29577.5 | 29233.4 | 26370.0 | 26464.3 |
| 62.5° | 7499.8  | 7646.9  | 7835.5  | 8673.5  | 13368.1 | 26428.3 | 39735.4 | 36106.2 | 34877.0 | 29258.4 | 29166.8 |
| 65°   | 6090.3  | 5990.4  | 6217.9  | 6609.2  | 7843.9  | 20482.3 | 40811.9 | 45168.1 | 43475.6 | 33062.4 | 31791.6 |
| 67.5° | 5008.2  | 4902.8  | 5127.5  | 5823.9  | 5965.4  | 11889.3 | 36933.0 | 51050.3 | 50711.8 | 37199.4 | 34458.0 |
| 69°   | 4433.8  | 4378.4  | 4575.4  | 5368.9  | 5726.8  | 8443.2  | 32174.5 | 51868.8 | 51949.3 | 39638.3 | 34868.7 |
| 70°   | 3995.5  | 4017.7  | 4209.1  | 5138.6  | 5618.6  | 6961.5  | 27499.3 | 50739.5 | 51422.1 | 40856.3 | 34424.7 |
| 72.5° | 2941.1  | 2988.3  | 3254.6  | 4256.3  | 5515.9  | 5907.2  | 16364.7 | 44319.0 | 45526.0 | 40928.5 | 31492.0 |
| 75°   | 2056.0  | 2033.8  | 2269.6  | 3204.7  | 5210.7  | 5854.5  | 9611.3  | 34274.9 | 35642.8 | 35376.4 | 26461.6 |
| 77.5° | 1345.7  | 1381.8  | 1570.4  | 2264.1  | 4383.9  | 5810.1  | 6265.1  | 24316.8 | 25204.7 | 23659.2 | 15651.6 |
| 80°   | 948.9   | 946.1   | 1051.6  | 1545.5  | 3251.9  | 5582.5  | 5130.3  | 15327.0 | 15102.3 | 9297.8  | 4641.9  |
| 82.5° | 543.8   | 582.7   | 704.8   | 1087.7  | 2175.3  | 4913.9  | 4719.6  | 7330.6  | 6692.4  | 2649.8  | 1567.7  |
| 85°   | 302.4   | 316.3   | 419.0   | 657.6   | 1270.8  | 3701.3  | 4120.3  | 3335.1  | 3146.4  | 1107.1  | 674.2   |
| 87.5° | 97.1    | 105.4   | 174.8   | 333.0   | 577.1   | 1748.0  | 2333.5  | 1539.9  | 1420.6  | 399.5   | 271.9   |
| 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: P459303

CATALOG NUMBER: GLAN-SA7D-735-U-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11570.2 | 11570.2 | 11570.2 | 11570.2 | 11570.2 | 11570.2 | 11570.2 | 11570.2 | 11570.2 | 11570.2 | 11570.2 |
| 2.5°  | 11586.8 | 11620.1 | 11531.3 | 11445.3 | 11367.6 | 11259.4 | 11162.3 | 11081.8 | 11026.3 | 11018.0 | 10990.3 |
| 5°    | 11625.7 | 11628.4 | 11459.2 | 11231.7 | 11009.7 | 10765.5 | 10513.0 | 10332.7 | 10163.4 | 10069.1 | 10021.9 |
| 7.5°  | 11653.4 | 11628.4 | 11323.2 | 10954.2 | 10526.9 | 10083.0 | 9639.0  | 9283.9  | 9009.2  | 8901.0  | 8942.6  |
| 10°   | 11642.3 | 11564.6 | 11117.9 | 10526.9 | 9905.4  | 9242.3  | 8604.1  | 8104.7  | 7646.9  | 7411.0  | 7416.6  |
| 12.5° | 11581.3 | 11453.6 | 10812.7 | 10046.9 | 9134.1  | 8246.2  | 7269.5  | 6595.3  | 6065.3  | 5751.8  | 5654.7  |
| 15°   | 11528.6 | 11306.6 | 10454.8 | 9394.9  | 8260.1  | 6992.0  | 5801.7  | 4969.3  | 4525.4  | 4278.5  | 4275.7  |
| 17.5° | 11473.1 | 11165.1 | 10063.6 | 8704.0  | 7255.6  | 5624.2  | 4375.6  | 3740.2  | 3532.1  | 3557.1  | 3515.4  |
| 20°   | 11414.8 | 10998.6 | 9655.7  | 7935.4  | 6032.0  | 4195.2  | 3276.8  | 3018.8  | 3077.1  | 3190.8  | 3207.5  |
| 22.5° | 11348.2 | 10821.0 | 9217.3  | 7089.2  | 4744.6  | 3157.5  | 2658.1  | 2619.2  | 2769.1  | 2946.6  | 2971.6  |
| 25°   | 11245.5 | 10599.1 | 8665.1  | 6204.1  | 3659.7  | 2544.3  | 2327.9  | 2355.7  | 2502.7  | 2652.5  | 2669.2  |
| 27.5° | 11101.3 | 10324.4 | 8107.4  | 5099.8  | 2749.7  | 2183.6  | 2128.1  | 2164.2  | 2236.3  | 2327.9  | 2350.1  |
| 30°   | 10907.0 | 10013.6 | 7466.5  | 4145.3  | 2203.1  | 2003.3  | 1981.1  | 2000.5  | 2042.1  | 2081.0  | 2092.1  |
| 32.5° | 10712.8 | 9714.0  | 6820.0  | 3174.2  | 1964.4  | 1884.0  | 1861.8  | 1861.8  | 1861.8  | 1867.3  | 1870.1  |
| 35°   | 10532.5 | 9430.9  | 6126.4  | 2472.2  | 1839.6  | 1789.6  | 1759.1  | 1725.8  | 1720.3  | 1700.8  | 1700.8  |
| 37.5° | 10432.6 | 9172.9  | 5388.3  | 2069.9  | 1748.0  | 1711.9  | 1670.3  | 1614.8  | 1584.3  | 1587.1  | 1581.5  |
| 40°   | 10452.0 | 9003.6  | 4716.9  | 1842.3  | 1673.1  | 1634.3  | 1570.4  | 1506.6  | 1487.2  | 1487.2  | 1481.6  |
| 42.5° | 10671.2 | 8948.2  | 4073.1  | 1723.0  | 1601.0  | 1556.6  | 1476.1  | 1417.8  | 1406.7  | 1404.0  | 1409.5  |
| 45°   | 11176.2 | 9084.1  | 3496.0  | 1645.4  | 1539.9  | 1473.3  | 1392.9  | 1340.1  | 1329.0  | 1329.0  | 1326.3  |
| 47.5° | 12161.2 | 9525.3  | 3082.6  | 1595.4  | 1495.5  | 1409.5  | 1326.3  | 1273.6  | 1254.1  | 1248.6  | 1248.6  |
| 50°   | 13692.8 | 10482.5 | 2774.6  | 1551.0  | 1440.0  | 1351.2  | 1265.2  | 1204.2  | 1173.7  | 1170.9  | 1168.1  |
| 52.5° | 15820.9 | 11975.3 | 2655.3  | 1517.7  | 1379.0  | 1290.2  | 1195.9  | 1137.6  | 1098.8  | 1090.4  | 1084.9  |
| 55°   | 18309.7 | 14059.0 | 2819.0  | 1492.7  | 1315.2  | 1220.8  | 1123.7  | 1062.7  | 1026.6  | 1010.0  | 1007.2  |
| 57.5° | 21192.6 | 16561.7 | 3440.5  | 1459.5  | 1256.9  | 1145.9  | 1051.6  | 990.5   | 951.7   | 932.3   | 926.7   |
| 60°   | 23781.3 | 19133.8 | 4525.4  | 1440.0  | 1207.0  | 1065.5  | 968.3   | 912.9   | 876.8   | 857.4   | 854.6   |
| 62.5° | 26625.3 | 21586.6 | 5821.2  | 1492.7  | 1184.8  | 987.8   | 890.7   | 840.7   | 810.2   | 790.8   | 790.8   |
| 65°   | 29663.5 | 24042.1 | 6678.5  | 1670.3  | 1218.1  | 926.7   | 807.4   | 765.8   | 738.0   | 724.2   | 721.4   |
| 67.5° | 31711.2 | 24891.1 | 5502.1  | 1853.4  | 1301.3  | 860.1   | 727.0   | 693.7   | 677.0   | 663.1   | 663.1   |
| 69°   | 31489.2 | 23817.4 | 4059.3  | 1900.6  | 1326.3  | 826.8   | 682.6   | 657.6   | 635.4   | 629.8   | 624.3   |
| 70°   | 30787.2 | 22593.7 | 3401.7  | 1870.1  | 1306.8  | 796.3   | 654.8   | 624.3   | 604.9   | 599.3   | 596.5   |
| 72.5° | 27421.6 | 19594.4 | 2533.2  | 1625.9  | 1112.6  | 690.9   | 579.9   | 552.1   | 535.5   | 527.2   | 527.2   |
| 75°   | 22782.4 | 16015.1 | 1978.3  | 1293.0  | 871.2   | 582.7   | 496.7   | 474.5   | 460.6   | 455.0   | 452.3   |
| 77.5° | 12768.8 | 8942.6  | 1420.6  | 1012.7  | 660.4   | 471.7   | 416.2   | 396.8   | 382.9   | 377.3   | 377.3   |
| 80°   | 3557.1  | 2555.4  | 835.2   | 668.7   | 449.5   | 357.9   | 330.2   | 316.3   | 296.9   | 283.0   | 291.3   |
| 82.5° | 1340.1  | 1107.1  | 477.2   | 402.3   | 285.8   | 238.6   | 230.3   | 219.2   | 210.9   | 191.4   | 191.4   |
| 85°   | 652.0   | 538.3   | 305.2   | 213.6   | 158.2   | 124.9   | 119.3   | 113.8   | 108.2   | 94.3    | 97.1    |
| 87.5° | 224.7   | 238.6   | 133.2   | 77.7    | 47.2    | 30.5    | 25.0    | 13.9    | 13.9    | 13.9    | 13.9    |
| 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)