

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: P530579

Luminaire Tested: **GLAN-SA5D-740-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-740-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22853 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

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

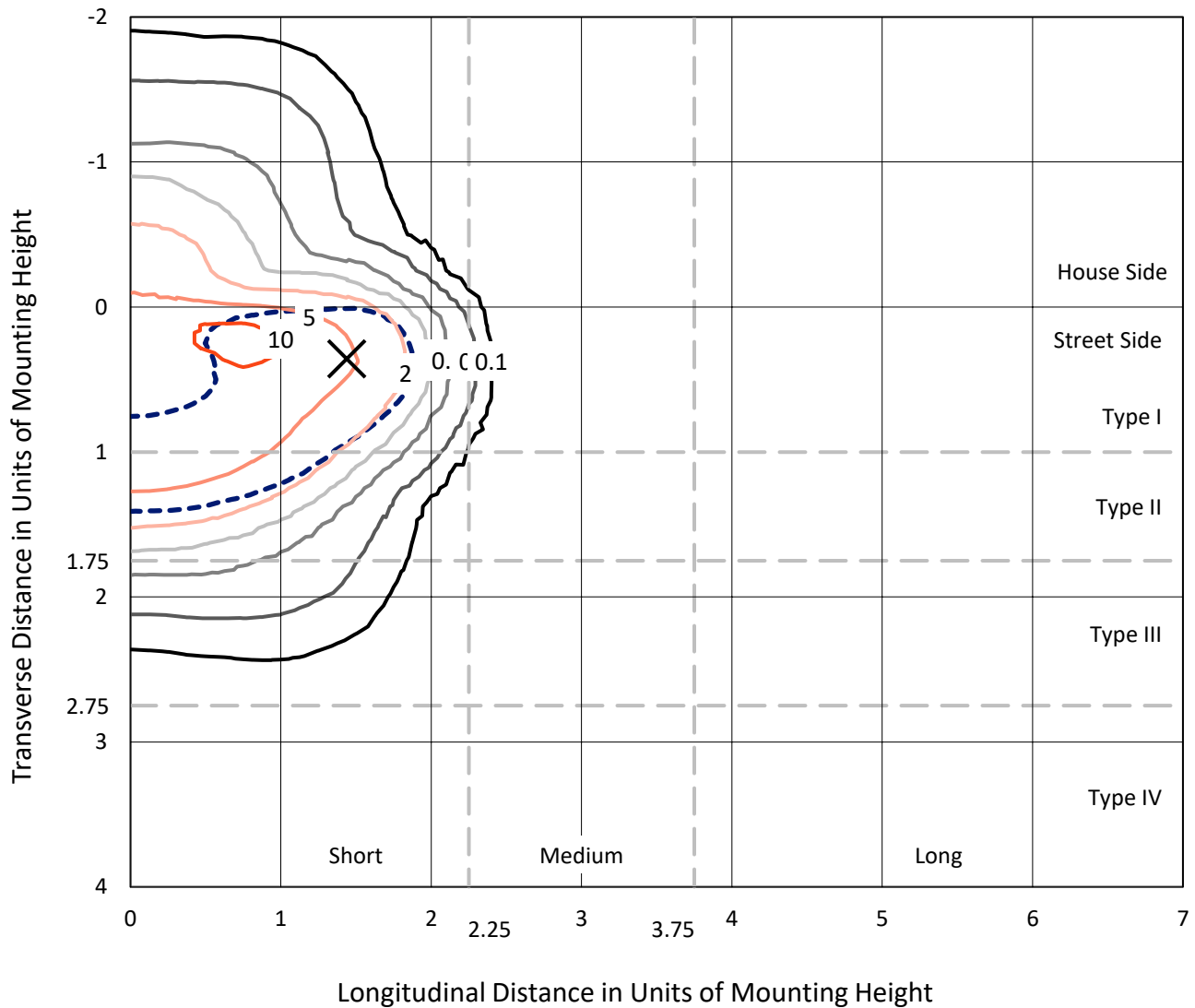


REPORT NUMBER: P530579

CATALOG NUMBER: GLAN-SA5D-740-U-T2-GRSBK

## Iso-Footcandle Lines of Horizontal Illumination

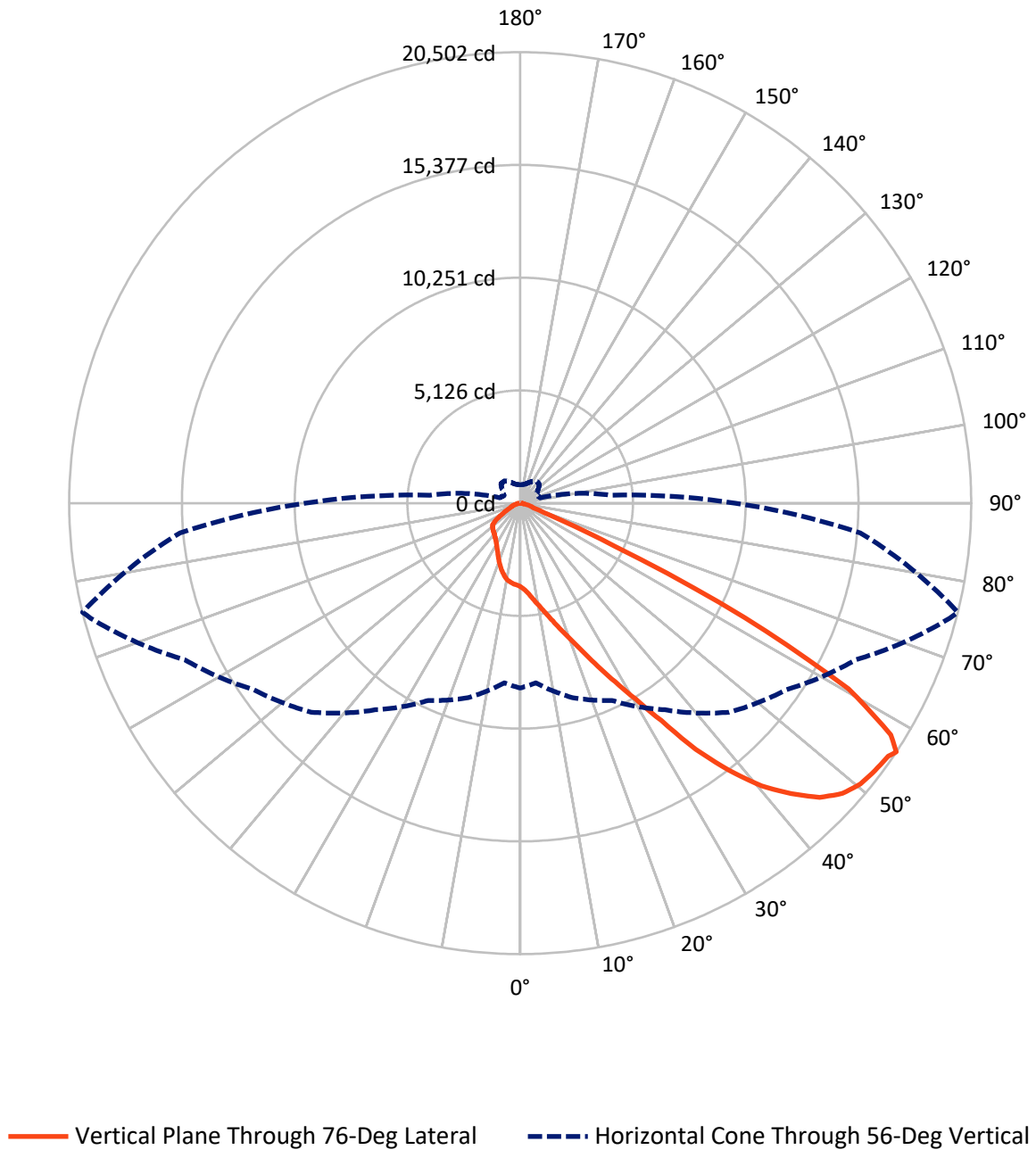
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P530579  
CATALOG NUMBER: GLAN-SA5D-740-U-T2-GRSBK

## Luminous Intensity Polar Plot



REPORT NUMBER: P530579

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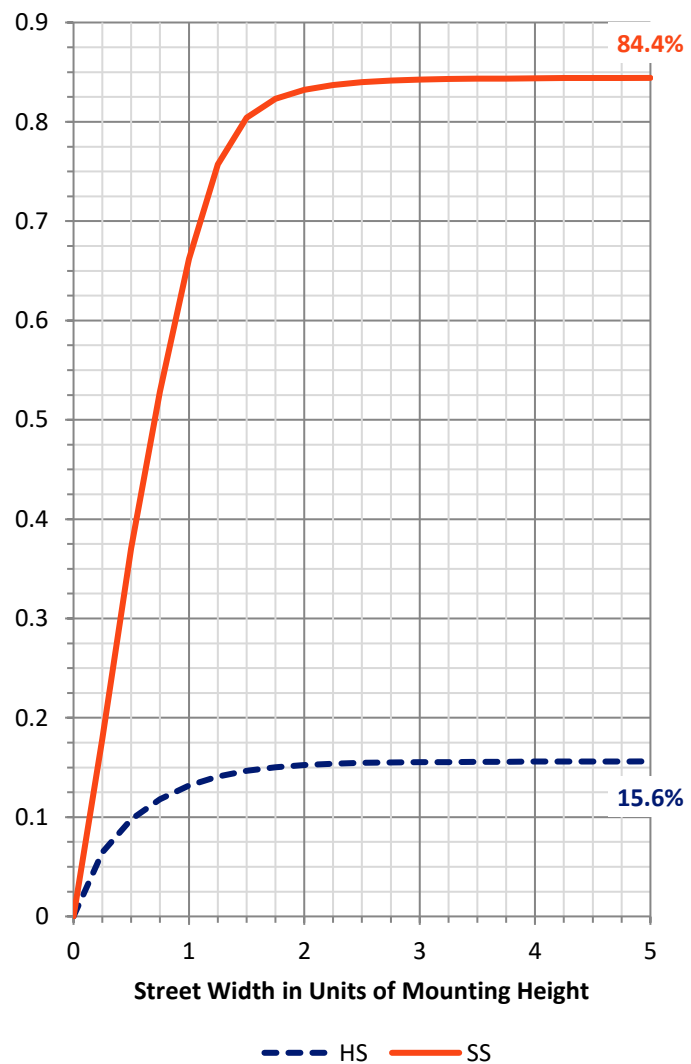
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3590.1   | 0.0    | 3590.1  |
|                    | % Fixture | 15.7     | 0.0    | 15.7    |
| <b>Street Side</b> | Lumens    | 19262.9  | 0.0    | 19262.9 |
|                    | % Fixture | 84.3     | 0.0    | 84.3    |
| <b>Total</b>       | Lumens    | 22853.0  | 0.0    | 22853.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 383.2   | 1.7       |
| 10°-20°   | 1231.1  | 5.4       |
| 20°-30°   | 2232.2  | 9.8       |
| 30°-40°   | 3849.6  | 16.8      |
| 40°-50°   | 6253.8  | 27.4      |
| 50°-60°   | 6591.7  | 28.8      |
| 60°-70°   | 2014.0  | 8.8       |
| 70°-80°   | 258.2   | 1.1       |
| 80°-90°   | 39.2    | 0.2       |
| 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°    | 22853.0 | 100.0     |
| 0°-180°   | 22853.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P530579

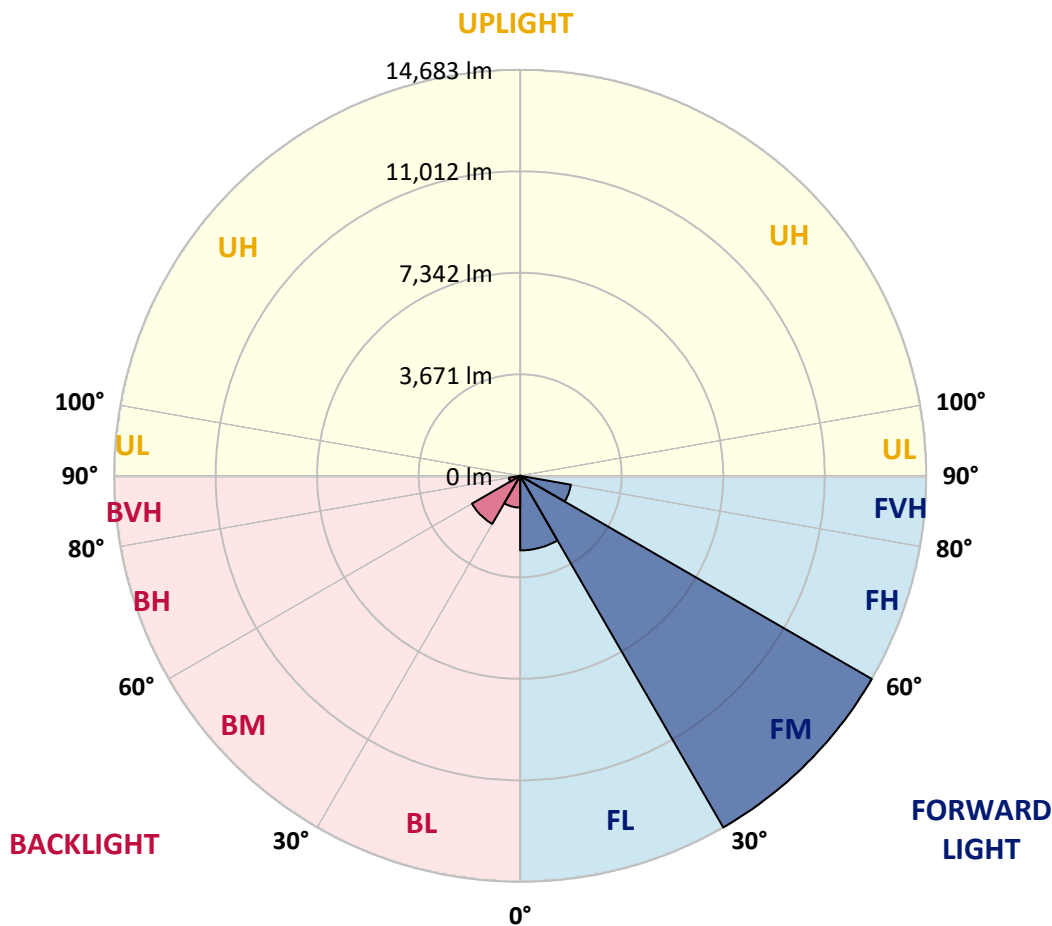
CATALOG NUMBER: GLAN-SA5D-740-U-T2-GRSBK

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2698.0  | 11.8      |                         |      |         |
| FM   | (30°-60°)   | 14683.0 | 64.2      |                         |      |         |
| FH   | (60°-80°)   | 1862.7  | 8.2       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 19.2    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1148.5  | 5.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2012.0  | 8.8       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 409.6   | 1.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 20.0    | 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



REPORT NUMBER: P530579

CATALOG NUMBER: GLAN-SA5D-740-U-T2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3803.9  | 3803.9  | 3803.9  | 3803.9  | 3803.9  | 3803.9  | 3803.9  | 3803.9  | 3803.9  | 3803.9  | 3803.9  |
| 2.5°  | 4381.0  | 4279.9  | 4284.1  | 4275.7  | 4263.1  | 4216.7  | 4077.7  | 4056.7  | 3964.0  | 3938.7  | 3854.5  |
| 5°    | 4907.6  | 4819.1  | 4869.7  | 4793.9  | 4722.2  | 4680.1  | 4452.6  | 4347.3  | 4199.9  | 4145.1  | 4027.2  |
| 7.5°  | 5236.2  | 5194.1  | 5177.2  | 5181.4  | 5114.0  | 5008.7  | 4907.6  | 4675.9  | 4477.9  | 4435.8  | 4187.3  |
| 10°   | 5396.3  | 5371.0  | 5396.3  | 5383.6  | 5413.1  | 5425.7  | 5248.8  | 5109.8  | 4819.1  | 4747.5  | 4360.0  |
| 12.5° | 5434.2  | 5484.7  | 5505.8  | 5560.5  | 5632.2  | 5754.3  | 5741.7  | 5552.1  | 5164.6  | 5118.2  | 4625.4  |
| 15°   | 5526.8  | 5569.0  | 5547.9  | 5636.4  | 5771.2  | 5977.6  | 6087.1  | 6057.6  | 5640.6  | 5556.3  | 4932.9  |
| 17.5° | 5611.1  | 5535.3  | 5606.9  | 5783.8  | 5918.6  | 6234.5  | 6499.9  | 6622.1  | 6158.7  | 6061.8  | 5215.1  |
| 20°   | 5724.8  | 5703.8  | 5691.1  | 5779.6  | 6019.7  | 6441.0  | 6967.5  | 7190.8  | 6740.1  | 6639.0  | 5619.5  |
| 22.5° | 6070.3  | 6074.5  | 6066.0  | 5935.5  | 6108.2  | 6584.2  | 7376.1  | 7928.0  | 7435.1  | 7350.9  | 6078.7  |
| 25°   | 6525.2  | 6470.4  | 6428.3  | 6323.0  | 6301.9  | 6714.8  | 7789.0  | 8829.5  | 8269.2  | 8210.2  | 6575.8  |
| 27.5° | 7005.4  | 7005.4  | 6879.1  | 6782.2  | 6647.4  | 7039.1  | 8168.1  | 9705.7  | 9276.0  | 9196.0  | 7009.7  |
| 30°   | 7527.8  | 7557.3  | 7540.4  | 7334.0  | 7249.8  | 7393.0  | 8555.7  | 10826.2 | 10430.2 | 10329.1 | 7725.8  |
| 32.5° | 8298.7  | 8235.5  | 8307.1  | 8134.4  | 7885.9  | 8012.2  | 9166.5  | 11828.8 | 11929.9 | 11786.7 | 8665.2  |
| 35°   | 9318.1  | 9280.2  | 9233.9  | 8951.6  | 8656.8  | 8757.9  | 10030.0 | 13063.1 | 13812.9 | 13741.3 | 9613.0  |
| 37.5° | 10232.2 | 10211.2 | 10173.3 | 9979.5  | 9638.3  | 9760.4  | 11011.6 | 14347.9 | 15649.6 | 15413.7 | 10952.6 |
| 40°   | 11192.7 | 11306.4 | 11184.3 | 11011.6 | 10699.8 | 10969.4 | 12165.8 | 15110.4 | 17195.6 | 16909.1 | 11976.2 |
| 42.5° | 12494.4 | 12405.9 | 12460.7 | 12144.7 | 11976.2 | 12271.1 | 13324.2 | 15872.8 | 18396.1 | 18054.9 | 13063.1 |
| 45°   | 13880.3 | 13884.5 | 13737.1 | 13636.0 | 13197.9 | 13518.0 | 14036.2 | 16294.1 | 19352.4 | 19087.0 | 13884.5 |
| 47.5° | 14769.1 | 14764.9 | 14925.0 | 15085.1 | 14634.3 | 14318.4 | 14520.6 | 16694.3 | 19845.2 | 19723.1 | 14183.6 |
| 50°   | 14630.1 | 14672.2 | 14878.7 | 15476.8 | 15712.7 | 15287.3 | 14975.6 | 16576.3 | 20068.5 | 20055.9 | 14440.6 |
| 52.5° | 12726.1 | 12865.1 | 13210.5 | 14074.1 | 15262.0 | 15788.6 | 15451.6 | 16795.4 | 20178.0 | 20199.1 | 14823.9 |
| 55°   | 9688.8  | 9764.6  | 10421.8 | 11470.7 | 12785.0 | 14588.0 | 15262.0 | 16968.1 | 20262.3 | 20300.2 | 15287.3 |
| 56°   | 8404.0  | 8201.8  | 9149.6  | 9895.2  | 11466.5 | 13438.0 | 14781.8 | 16833.3 | 20211.7 | 20502.4 | 15519.0 |
| 57.5° | 6344.1  | 6209.3  | 6976.0  | 7906.9  | 9419.2  | 11500.2 | 13290.5 | 16197.2 | 19870.5 | 19866.3 | 15186.2 |
| 60°   | 3858.7  | 3723.9  | 4313.6  | 4861.3  | 5708.0  | 7081.3  | 8981.1  | 12898.8 | 16799.6 | 17153.4 | 12296.4 |
| 62.5° | 2295.8  | 2380.1  | 2961.4  | 3294.2  | 3568.0  | 3711.2  | 4646.4  | 7666.8  | 11209.5 | 11462.3 | 7628.9  |
| 65°   | 1529.1  | 1558.6  | 1996.7  | 2544.4  | 2666.5  | 2123.1  | 1891.4  | 3104.6  | 4861.3  | 4705.4  | 3146.8  |
| 67.5° | 943.6   | 1011.0  | 1339.6  | 1912.5  | 2118.9  | 1550.2  | 897.3   | 1158.4  | 1339.6  | 1339.6  | 909.9   |
| 70°   | 572.9   | 606.6   | 893.1   | 1301.7  | 1453.3  | 998.4   | 652.9   | 652.9   | 644.5   | 631.9   | 543.4   |
| 72.5° | 273.8   | 294.9   | 455.0   | 669.8   | 682.4   | 526.6   | 505.5   | 551.8   | 539.2   | 535.0   | 450.7   |
| 75°   | 118.0   | 126.4   | 160.1   | 210.6   | 240.1   | 223.3   | 307.5   | 396.0   | 408.6   | 396.0   | 324.4   |
| 77.5° | 37.9    | 42.1    | 59.0    | 75.8    | 80.0    | 96.9    | 130.6   | 164.3   | 189.6   | 176.9   | 160.1   |
| 80°   | 4.2     | 8.4     | 16.9    | 37.9    | 59.0    | 75.8    | 96.9    | 109.5   | 122.2   | 122.2   | 113.7   |
| 82.5° | 4.2     | 4.2     | 16.9    | 33.7    | 54.8    | 71.6    | 92.7    | 105.3   | 122.2   | 126.4   | 118.0   |
| 85°   | 0.0     | 4.2     | 12.6    | 29.5    | 46.3    | 46.3    | 42.1    | 42.1    | 29.5    | 29.5    | 29.5    |
| 87.5° | 0.0     | 0.0     | 4.2     | 4.2     | 4.2     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     |
| 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: P530579

CATALOG NUMBER: GLAN-SA5D-740-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3803.9 | 3803.9 | 3803.9 | 3803.9 | 3803.9 | 3803.9 | 3803.9 | 3803.9 | 3803.9 | 3803.9 | 3803.9 |
| 2.5°  | 3837.6 | 3829.2 | 3715.5 | 3643.8 | 3605.9 | 3530.1 | 3483.8 | 3450.1 | 3424.8 | 3395.3 | 3399.5 |
| 5°    | 3888.2 | 3858.7 | 3669.1 | 3538.5 | 3382.7 | 3298.4 | 3226.8 | 3167.8 | 3129.9 | 3121.5 | 3104.6 |
| 7.5°  | 4031.4 | 3875.5 | 3589.1 | 3353.2 | 3155.2 | 3070.9 | 3007.7 | 2969.8 | 2986.7 | 2948.8 | 2978.3 |
| 10°   | 4140.9 | 3909.2 | 3492.2 | 3151.0 | 2953.0 | 2889.8 | 2856.1 | 2885.6 | 2927.7 | 2910.9 | 2889.8 |
| 12.5° | 4275.7 | 3942.9 | 3336.3 | 2957.2 | 2771.8 | 2725.5 | 2784.5 | 2839.2 | 2923.5 | 2957.2 | 2915.1 |
| 15°   | 4427.4 | 3980.8 | 3138.3 | 2733.9 | 2616.0 | 2653.9 | 2755.0 | 2851.9 | 2936.1 | 2978.3 | 3003.5 |
| 17.5° | 4612.7 | 3968.2 | 2944.6 | 2557.0 | 2468.5 | 2578.1 | 2700.2 | 2788.7 | 2915.1 | 2978.3 | 2961.4 |
| 20°   | 4785.4 | 3926.1 | 2729.7 | 2380.1 | 2384.3 | 2485.4 | 2586.5 | 2729.7 | 2797.1 | 2881.4 | 2851.9 |
| 22.5° | 4949.7 | 3850.3 | 2506.5 | 2257.9 | 2257.9 | 2413.8 | 2464.3 | 2557.0 | 2616.0 | 2658.1 | 2653.9 |
| 25°   | 5181.4 | 3707.0 | 2321.1 | 2140.0 | 2190.5 | 2291.6 | 2333.7 | 2363.2 | 2338.0 | 2371.7 | 2375.9 |
| 27.5° | 5345.7 | 3559.6 | 2169.5 | 2034.7 | 2127.3 | 2203.2 | 2190.5 | 2173.7 | 2114.7 | 2068.4 | 2097.8 |
| 30°   | 5522.6 | 3386.9 | 2038.9 | 1963.0 | 2013.6 | 2081.0 | 2030.4 | 1979.9 | 1887.2 | 1811.4 | 1815.6 |
| 32.5° | 5775.4 | 3306.8 | 1925.1 | 1878.8 | 1946.2 | 1954.6 | 1899.9 | 1824.0 | 1731.4 | 1659.7 | 1655.5 |
| 35°   | 6247.2 | 3256.3 | 1828.2 | 1824.0 | 1836.7 | 1840.9 | 1786.1 | 1693.4 | 1655.5 | 1596.5 | 1617.6 |
| 37.5° | 6719.0 | 3231.0 | 1760.8 | 1744.0 | 1739.8 | 1744.0 | 1680.8 | 1592.3 | 1664.0 | 1659.7 | 1668.2 |
| 40°   | 7321.4 | 3344.8 | 1664.0 | 1642.9 | 1647.1 | 1647.1 | 1567.1 | 1541.8 | 1668.2 | 1680.8 | 1685.0 |
| 42.5° | 7932.2 | 3488.0 | 1600.8 | 1533.4 | 1550.2 | 1550.2 | 1508.1 | 1478.6 | 1567.1 | 1482.8 | 1470.2 |
| 45°   | 8463.0 | 3698.6 | 1533.4 | 1423.8 | 1466.0 | 1487.0 | 1474.4 | 1423.8 | 1369.1 | 1225.8 | 1225.8 |
| 47.5° | 8635.7 | 3884.0 | 1453.3 | 1318.5 | 1352.2 | 1444.9 | 1407.0 | 1301.7 | 1204.8 | 1086.8 | 1078.4 |
| 50°   | 8939.0 | 4086.2 | 1390.1 | 1196.4 | 1268.0 | 1381.7 | 1343.8 | 1238.5 | 1129.0 | 1044.7 | 1048.9 |
| 52.5° | 9250.7 | 4317.8 | 1272.2 | 1053.1 | 1141.6 | 1331.2 | 1331.2 | 1213.2 | 1044.7 | 985.7  | 977.3  |
| 55°   | 9718.3 | 4309.4 | 1061.6 | 863.6  | 1019.4 | 1255.3 | 1276.4 | 1086.8 | 935.2  | 888.8  | 888.8  |
| 56°   | 9785.7 | 4115.6 | 956.2  | 808.8  | 964.7  | 1234.3 | 1238.5 | 1053.1 | 893.1  | 842.5  | 842.5  |
| 57.5° | 9280.2 | 3715.5 | 838.3  | 741.4  | 897.3  | 1196.4 | 1200.6 | 1023.6 | 859.4  | 787.7  | 779.3  |
| 60°   | 7140.2 | 2514.9 | 699.3  | 661.4  | 813.0  | 1078.4 | 1099.5 | 931.0  | 754.0  | 699.3  | 695.1  |
| 62.5° | 4031.4 | 1394.3 | 615.0  | 598.2  | 699.3  | 918.3  | 981.5  | 813.0  | 640.3  | 610.8  | 619.2  |
| 65°   | 1840.9 | 766.7  | 518.1  | 484.4  | 564.5  | 707.7  | 792.0  | 669.8  | 526.6  | 492.9  | 492.9  |
| 67.5° | 674.0  | 522.4  | 442.3  | 383.3  | 396.0  | 459.2  | 513.9  | 433.9  | 349.6  | 299.1  | 311.7  |
| 70°   | 480.2  | 438.1  | 387.6  | 332.8  | 307.5  | 299.1  | 294.9  | 244.3  | 172.7  | 134.8  | 143.2  |
| 72.5° | 387.6  | 362.3  | 324.4  | 282.2  | 240.1  | 202.2  | 172.7  | 126.4  | 80.0   | 54.8   | 50.6   |
| 75°   | 278.0  | 265.4  | 235.9  | 202.2  | 168.5  | 143.2  | 118.0  | 80.0   | 42.1   | 21.1   | 21.1   |
| 77.5° | 143.2  | 143.2  | 139.0  | 126.4  | 105.3  | 84.3   | 67.4   | 46.3   | 25.3   | 8.4    | 8.4    |
| 80°   | 109.5  | 118.0  | 122.2  | 109.5  | 96.9   | 75.8   | 54.8   | 33.7   | 16.9   | 4.2    | 4.2    |
| 82.5° | 105.3  | 122.2  | 130.6  | 113.7  | 96.9   | 71.6   | 54.8   | 33.7   | 16.9   | 4.2    | 4.2    |
| 85°   | 25.3   | 25.3   | 37.9   | 42.1   | 54.8   | 59.0   | 46.3   | 29.5   | 12.6   | 4.2    | 4.2    |
| 87.5° | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    | 4.2    | 4.2    | 4.2    | 4.2    | 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)