

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: P653130

Luminaire Tested: **GLAN-SA9C-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653130  
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-SA9C-840-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA 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: 46790.7 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

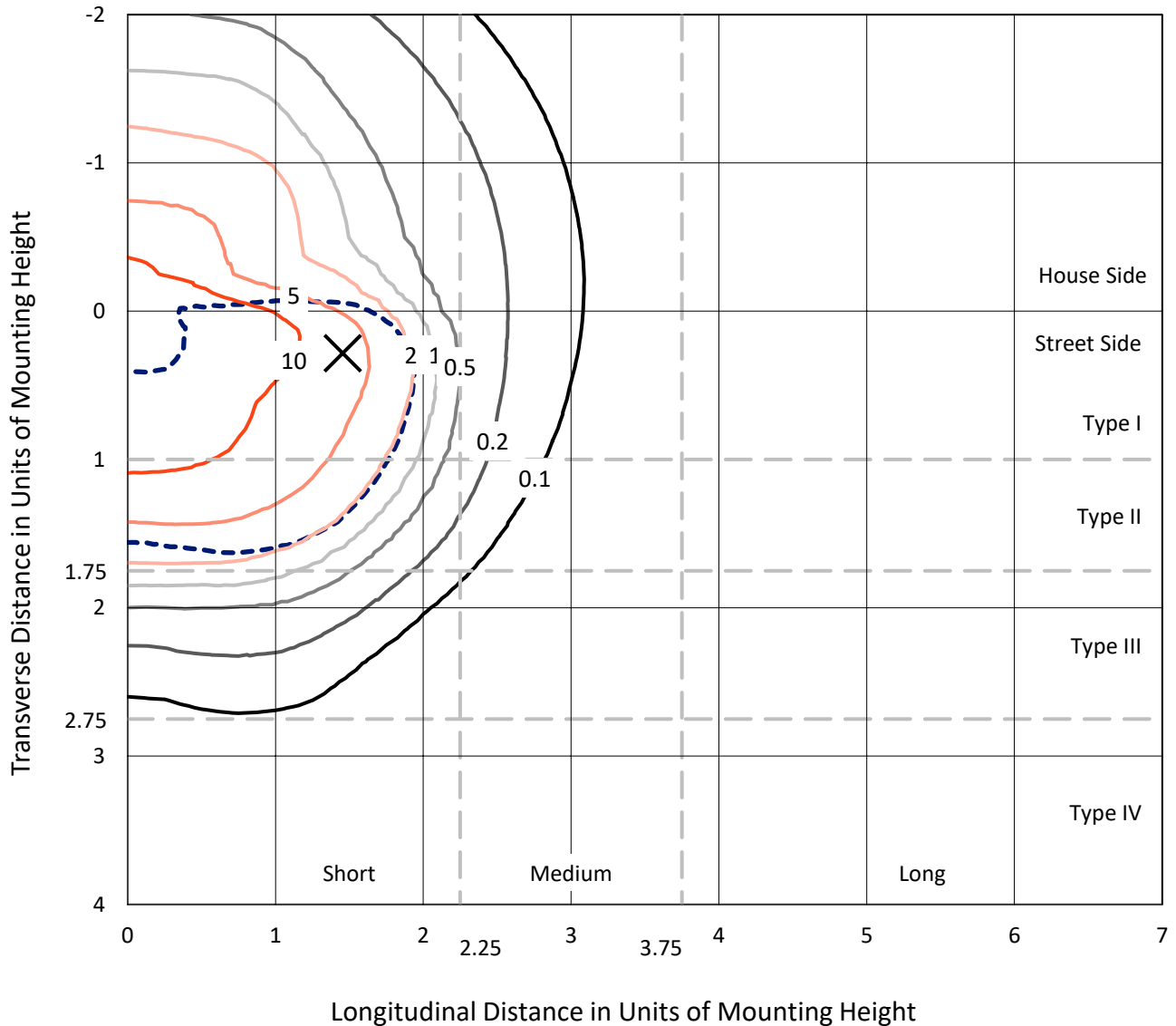
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

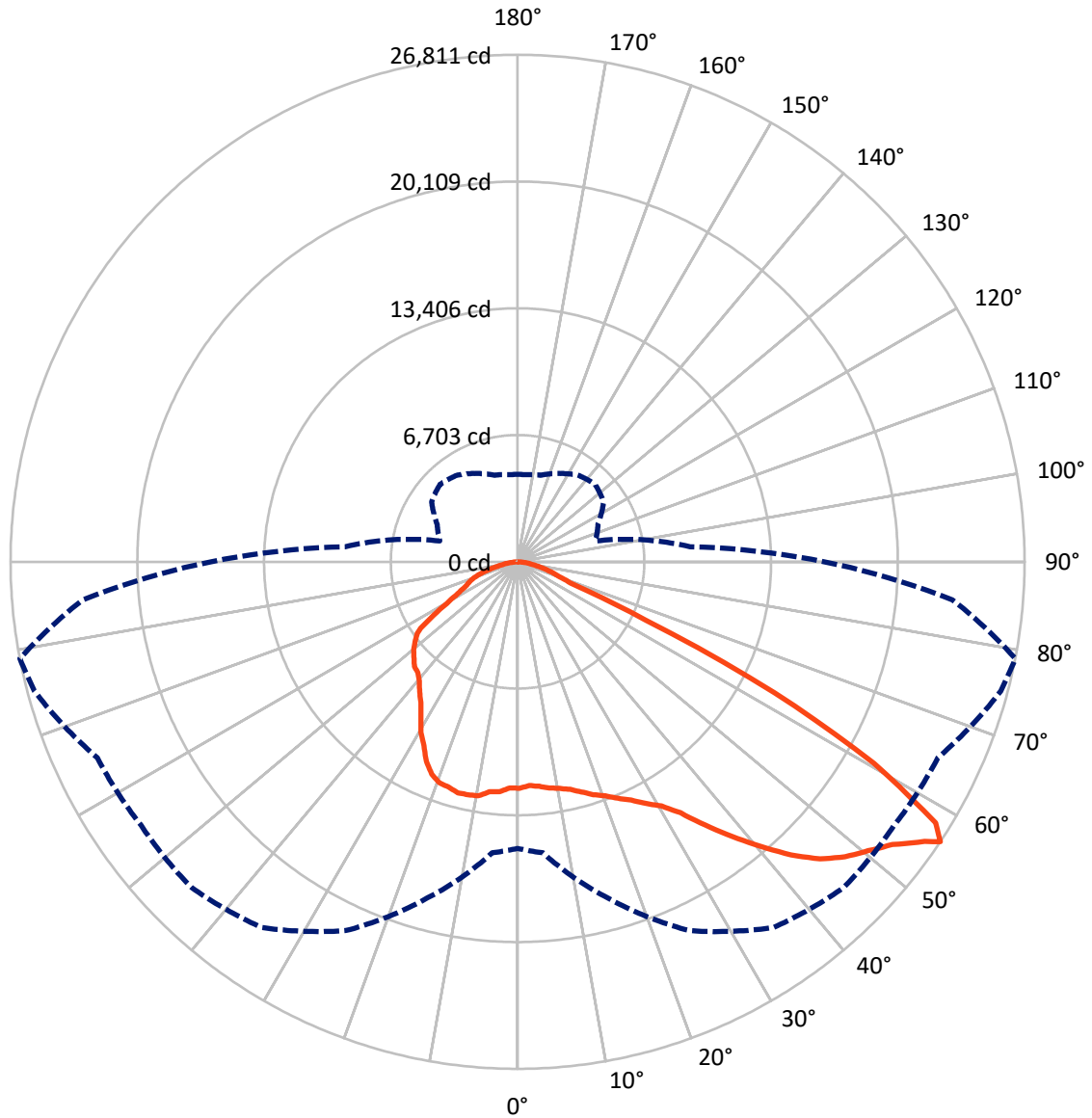
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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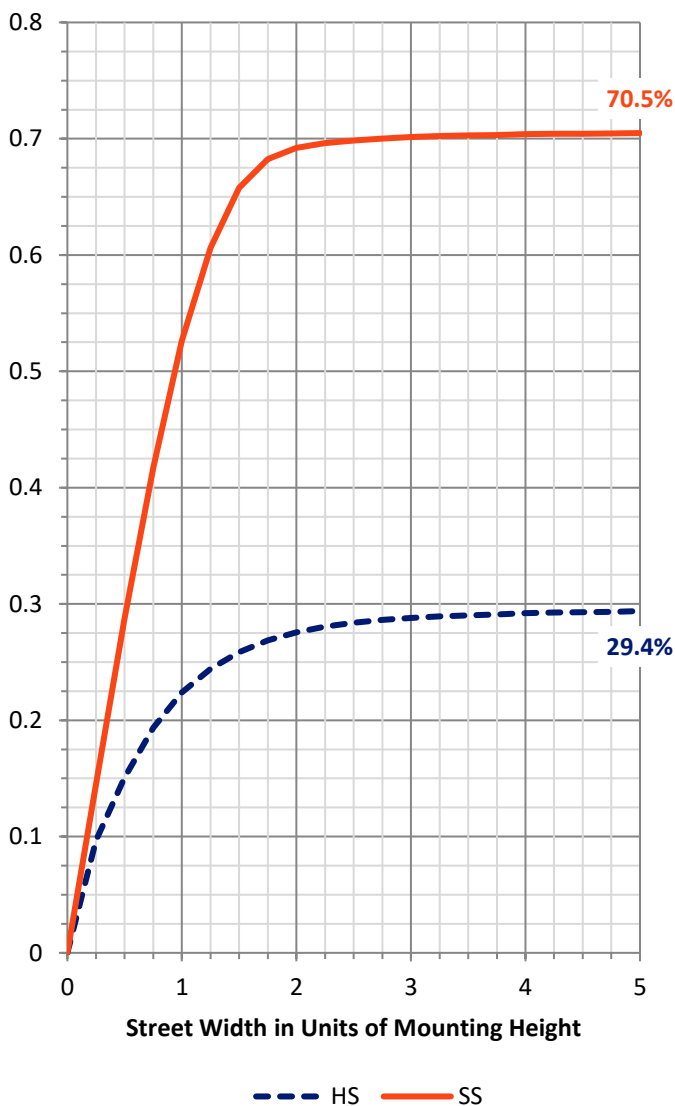
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13818.3  | 0.0    | 13818.3 |
|                    | % Fixture | 29.5     | 0.0    | 29.5    |
| <b>Street Side</b> | Lumens    | 32972.4  | 0.0    | 32972.4 |
|                    | % Fixture | 70.5     | 0.0    | 70.5    |
| <b>Total</b>       | Lumens    | 46790.7  | 0.0    | 46790.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1088.5  | 2.3       |
| 10°-20°   | 2978.9  | 6.4       |
| 20°-30°   | 5096.2  | 10.9      |
| 30°-40°   | 7810.6  | 16.7      |
| 40°-50°   | 10556.0 | 22.6      |
| 50°-60°   | 12123.9 | 25.9      |
| 60°-70°   | 5526.4  | 11.8      |
| 70°-80°   | 1362.5  | 2.9       |
| 80°-90°   | 247.6   | 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°    | 46790.7 | 100.0     |
| 0°-180°   | 46790.7 | 100.0     |

**Coefficient of Utilization**



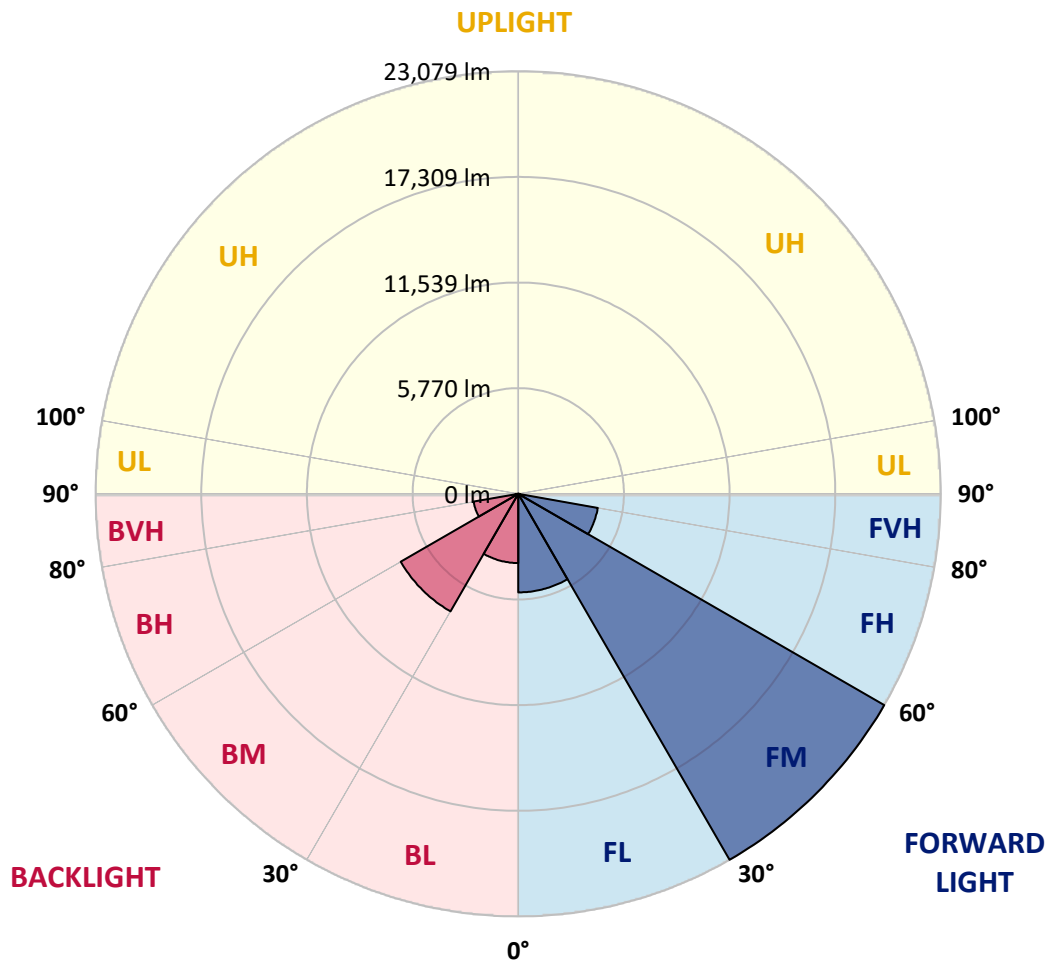
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5383.7  | 11.5      |                         |      |         |
| FM (30°-60°)   | 23078.6 | 49.3      |                         |      |         |
| FH (60°-80°)   | 4411.3  | 9.4       |                         |      | G2/5000 |
| FVH (80°-90°)  | 98.9    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 3779.9  | 8.1       | B4/5000                 |      |         |
| BM (30°-60°)   | 7412.0  | 15.8      | B4/8500                 |      |         |
| BH (60°-80°)   | 2477.7  | 5.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 148.8   | 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-G3**

Type II Short





REPORT NUMBER: P653130

CATALOG NUMBER: GLAN-SA9C-840-U-T3R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11971.9 | 11971.9 | 11971.9 | 11971.9 | 11971.9 | 11971.9 | 11971.9 | 11971.9 | 11971.9 | 11971.9 | 11971.9 |
| 2.5°  | 11389.1 | 11359.9 | 11429.9 | 11482.3 | 11546.4 | 11628.0 | 11668.8 | 11692.1 | 11896.1 | 11843.6 | 12001.1 |
| 5°    | 11144.3 | 11068.5 | 11120.9 | 11161.8 | 11272.4 | 11371.6 | 11482.3 | 11657.2 | 11843.6 | 11925.3 | 12117.6 |
| 7.5°  | 10928.5 | 10887.8 | 10876.1 | 10905.2 | 11056.8 | 11185.0 | 11377.4 | 11633.8 | 11936.9 | 12071.0 | 12181.7 |
| 10°   | 10573.1 | 10514.8 | 10602.2 | 10794.5 | 10835.4 | 11103.5 | 11324.9 | 11692.1 | 11954.4 | 12187.5 | 12513.9 |
| 12.5° | 10415.7 | 10357.3 | 10374.8 | 10485.6 | 10771.2 | 11027.7 | 11289.9 | 11703.8 | 12257.5 | 12350.8 | 12787.9 |
| 15°   | 10666.3 | 10608.0 | 10625.5 | 10596.3 | 10870.3 | 11004.3 | 11418.2 | 11936.9 | 12467.3 | 12624.7 | 13091.0 |
| 17.5° | 11237.5 | 11243.3 | 11167.6 | 11103.5 | 11039.3 | 11324.9 | 11610.5 | 12076.8 | 12548.9 | 12945.3 | 13294.9 |
| 20°   | 12327.5 | 12135.1 | 11983.6 | 11622.2 | 11523.1 | 11645.5 | 12006.9 | 12455.6 | 12881.2 | 13207.6 | 13603.9 |
| 22.5° | 13166.8 | 13184.3 | 12968.6 | 12374.1 | 12158.4 | 12210.9 | 12519.8 | 12887.0 | 13353.2 | 13586.4 | 14041.0 |
| 25°   | 14384.9 | 14262.5 | 14029.4 | 13557.3 | 13073.5 | 13114.3 | 13341.6 | 13673.8 | 13802.1 | 13965.2 | 14460.7 |
| 27.5° | 15498.2 | 15533.2 | 15072.7 | 14629.7 | 14029.4 | 13912.8 | 14320.8 | 14379.1 | 14163.4 | 14472.3 | 14641.4 |
| 30°   | 16628.9 | 16599.7 | 16296.7 | 15777.9 | 15189.3 | 15212.6 | 15393.2 | 15107.6 | 14810.4 | 14979.5 | 15096.0 |
| 32.5° | 17800.4 | 17468.2 | 17456.6 | 16990.3 | 16541.5 | 16325.8 | 16104.3 | 16244.3 | 15783.8 | 15818.8 | 15708.0 |
| 35°   | 18738.8 | 18785.5 | 18517.4 | 18185.1 | 17963.7 | 17584.8 | 16978.6 | 17229.2 | 17141.9 | 17101.1 | 16623.1 |
| 37.5° | 19420.8 | 19240.1 | 19374.2 | 19263.4 | 19053.6 | 18581.5 | 17952.0 | 18191.0 | 18231.8 | 18429.9 | 17876.2 |
| 40°   | 19980.4 | 19904.6 | 20260.1 | 20318.4 | 20172.7 | 19152.7 | 18022.0 | 18733.0 | 19345.0 | 19776.4 | 19117.7 |
| 42.5° | 20248.5 | 20411.7 | 20784.7 | 21233.5 | 20907.1 | 19817.2 | 18383.3 | 19146.9 | 20510.7 | 21192.7 | 20295.1 |
| 45°   | 20609.8 | 20400.0 | 20953.7 | 21775.6 | 21781.4 | 20376.7 | 18733.0 | 19706.4 | 21420.0 | 22410.9 | 21099.4 |
| 47.5° | 20242.6 | 20347.6 | 20918.8 | 21962.0 | 22230.2 | 20965.4 | 19677.3 | 20499.1 | 22422.5 | 23302.7 | 21845.5 |
| 50°   | 19420.8 | 19630.6 | 20674.0 | 21758.1 | 22568.2 | 21589.1 | 20761.3 | 21355.9 | 23349.3 | 24019.5 | 21967.9 |
| 52.5° | 18564.0 | 18680.5 | 20312.6 | 21915.5 | 22719.8 | 22393.4 | 22212.7 | 22539.1 | 24480.0 | 24829.8 | 22119.5 |
| 55°   | 16232.6 | 16786.3 | 19117.7 | 21845.5 | 23460.0 | 23844.7 | 23704.8 | 24182.8 | 25762.3 | 26112.0 | 22947.1 |
| 56°   | 15154.3 | 15445.7 | 18400.8 | 21519.1 | 23605.7 | 24375.1 | 24305.2 | 24520.8 | 26444.2 | 26811.4 | 23075.4 |
| 57.5° | 13160.9 | 13184.3 | 15690.5 | 20073.6 | 23057.9 | 24532.5 | 24462.5 | 24631.5 | 26310.2 | 26059.6 | 21950.4 |
| 60°   | 8235.7  | 8597.1  | 10677.9 | 15439.9 | 19607.3 | 22760.6 | 23156.9 | 21798.9 | 22183.6 | 21653.1 | 17077.7 |
| 62.5° | 4266.5  | 4214.1  | 5595.4  | 9028.5  | 13015.2 | 16296.7 | 16663.9 | 16599.7 | 16005.2 | 15230.1 | 11155.9 |
| 65°   | 2127.4  | 2139.1  | 2925.9  | 4470.5  | 6667.9  | 8533.0  | 9558.9  | 9669.6  | 8090.1  | 7443.1  | 5292.3  |
| 67.5° | 1544.6  | 1602.9  | 2104.1  | 2733.6  | 3141.6  | 3514.6  | 4307.3  | 4225.7  | 3199.9  | 3042.5  | 2821.1  |
| 70°   | 1200.7  | 1253.2  | 1707.7  | 2086.6  | 1894.3  | 1894.3  | 2063.3  | 2133.3  | 2278.9  | 2343.1  | 2418.9  |
| 72.5° | 874.3   | 915.1   | 1305.6  | 1439.6  | 1241.5  | 1334.8  | 1544.6  | 1707.7  | 1859.3  | 1882.7  | 1970.0  |
| 75°   | 600.3   | 635.3   | 856.8   | 792.7   | 746.1   | 920.9   | 1130.7  | 1282.3  | 1393.0  | 1451.3  | 1503.8  |
| 77.5° | 390.5   | 402.2   | 489.6   | 413.9   | 477.9   | 594.5   | 734.4   | 862.6   | 973.4   | 1020.0  | 1031.7  |
| 80°   | 174.8   | 192.3   | 209.8   | 262.3   | 332.2   | 425.5   | 524.5   | 629.5   | 699.5   | 717.0   | 751.9   |
| 82.5° | 99.1    | 99.1    | 128.3   | 186.5   | 244.8   | 308.9   | 378.9   | 454.6   | 536.2   | 553.7   | 547.9   |
| 85°   | 52.5    | 52.5    | 75.8    | 110.8   | 151.5   | 180.6   | 174.8   | 180.6   | 192.3   | 221.5   | 215.6   |
| 87.5° | 17.5    | 17.5    | 23.3    | 23.3    | 29.2    | 35.0    | 29.2    | 40.8    | 52.5    | 52.5    | 52.5    |
| 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: P653130

CATALOG NUMBER: GLAN-SA9C-840-U-T3R-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11971.9 | 11971.9 | 11971.9 | 11971.9 | 11971.9 | 11971.9 | 11971.9 | 11971.9 | 11971.9 | 11971.9 | 11971.9 |
| 2.5°  | 11954.4 | 12006.9 | 11936.9 | 12088.4 | 12088.4 | 12059.4 | 11913.6 | 11960.2 | 11995.2 | 11995.2 | 12024.4 |
| 5°    | 12181.7 | 12164.2 | 12210.9 | 12030.2 | 11919.4 | 11878.6 | 11639.7 | 11523.1 | 11424.0 | 11418.2 | 11330.7 |
| 7.5°  | 12310.0 | 12263.3 | 12245.8 | 12111.7 | 11622.2 | 11324.9 | 10812.0 | 10514.8 | 10450.6 | 10223.3 | 10310.7 |
| 10°   | 12513.9 | 12601.4 | 12513.9 | 11785.4 | 11103.5 | 10421.5 | 9920.3  | 9459.7  | 9279.1  | 9133.3  | 9046.0  |
| 12.5° | 12933.6 | 12892.8 | 12385.7 | 11400.7 | 10444.8 | 9634.7  | 8888.6  | 8404.8  | 8224.1  | 8095.9  | 8084.2  |
| 15°   | 13289.1 | 13085.1 | 12310.0 | 10794.5 | 9418.9  | 8556.3  | 7944.3  | 7600.5  | 7518.9  | 7530.5  | 7583.0  |
| 17.5° | 13411.5 | 13271.7 | 11913.6 | 10165.0 | 8655.4  | 7641.2  | 7355.6  | 7303.2  | 7378.9  | 7466.4  | 7489.7  |
| 20°   | 13603.9 | 13382.4 | 11750.4 | 9308.3  | 7711.2  | 7070.0  | 7052.5  | 7239.1  | 7378.9  | 7507.2  | 7524.7  |
| 22.5° | 14006.1 | 13446.5 | 11220.0 | 8498.1  | 7064.2  | 6901.0  | 7070.0  | 7227.5  | 7443.1  | 7548.0  | 7454.7  |
| 25°   | 14122.7 | 13306.6 | 10474.0 | 7524.7  | 6656.3  | 6796.1  | 6976.8  | 7192.5  | 7344.0  | 7402.3  | 7443.1  |
| 27.5° | 14221.7 | 13091.0 | 9465.6  | 6877.7  | 6528.0  | 6790.3  | 6976.8  | 7157.5  | 7239.1  | 7291.6  | 7338.1  |
| 30°   | 14501.5 | 13026.8 | 8591.3  | 6446.4  | 6446.4  | 6673.8  | 6912.7  | 6959.4  | 7070.0  | 7134.2  | 7215.8  |
| 32.5° | 14641.4 | 12583.9 | 7693.7  | 6172.4  | 6364.8  | 6732.0  | 6749.5  | 6836.9  | 6842.7  | 6895.2  | 6807.8  |
| 35°   | 15008.6 | 12269.2 | 6860.2  | 5974.3  | 6399.8  | 6673.8  | 6761.1  | 6708.7  | 6423.1  | 6283.2  | 6312.4  |
| 37.5° | 15276.7 | 12111.7 | 6259.9  | 5951.0  | 6405.6  | 6737.8  | 6784.4  | 6388.2  | 6090.9  | 5857.7  | 5916.0  |
| 40°   | 15999.4 | 11721.3 | 5805.3  | 5910.2  | 6458.0  | 6807.8  | 6679.6  | 6248.2  | 5712.0  | 5473.1  | 5432.3  |
| 42.5° | 16553.2 | 11441.5 | 5519.7  | 5863.5  | 6498.8  | 6906.9  | 6627.1  | 5968.5  | 5420.6  | 5199.1  | 5257.3  |
| 45°   | 17194.3 | 11377.4 | 5368.1  | 5875.2  | 6568.8  | 6959.4  | 6563.0  | 5752.8  | 5170.0  | 5082.5  | 5065.0  |
| 47.5° | 17421.6 | 10916.9 | 5204.9  | 5776.2  | 6551.3  | 6941.9  | 6347.3  | 5589.6  | 5076.7  | 5088.4  | 5135.0  |
| 50°   | 17042.8 | 10444.8 | 5082.5  | 5572.1  | 6434.7  | 6784.4  | 6009.3  | 5373.9  | 5024.2  | 5170.0  | 5251.5  |
| 52.5° | 16559.0 | 9961.1  | 4831.9  | 5298.2  | 6195.8  | 6539.7  | 5851.9  | 5362.3  | 4971.7  | 4925.1  | 4942.6  |
| 55°   | 16704.7 | 9564.7  | 4482.2  | 4925.1  | 5811.1  | 6085.1  | 5677.0  | 5251.5  | 4843.6  | 4668.7  | 4727.0  |
| 56°   | 16232.6 | 9156.7  | 4254.9  | 4692.0  | 5548.8  | 5793.6  | 5589.6  | 5152.5  | 4738.6  | 4622.1  | 4622.1  |
| 57.5° | 14897.8 | 7787.0  | 3957.6  | 4319.0  | 4995.1  | 5286.5  | 5420.6  | 5094.2  | 4622.1  | 4418.0  | 4423.9  |
| 60°   | 10986.8 | 5537.1  | 3549.6  | 3806.0  | 4138.3  | 4371.4  | 4995.1  | 4931.0  | 4330.6  | 4190.7  | 4138.3  |
| 62.5° | 6772.8  | 4045.0  | 3258.2  | 3357.3  | 3526.3  | 3718.6  | 4359.7  | 4464.7  | 4021.7  | 3870.2  | 3835.2  |
| 65°   | 3794.4  | 3095.0  | 3036.7  | 3077.5  | 3159.0  | 3258.2  | 3619.6  | 3852.7  | 3549.6  | 3316.5  | 3304.8  |
| 67.5° | 2774.4  | 2768.6  | 2815.2  | 2850.1  | 2885.1  | 2885.1  | 2972.6  | 3065.9  | 3025.0  | 2838.5  | 2821.1  |
| 70°   | 2465.5  | 2483.0  | 2518.0  | 2523.8  | 2535.4  | 2494.7  | 2424.7  | 2395.5  | 2442.2  | 2325.6  | 2302.3  |
| 72.5° | 2034.2  | 2092.5  | 2133.3  | 2139.1  | 2075.0  | 2022.5  | 1929.3  | 1830.2  | 1795.2  | 1771.9  | 1766.1  |
| 75°   | 1562.1  | 1602.9  | 1620.4  | 1614.6  | 1591.2  | 1515.4  | 1404.7  | 1305.6  | 1241.5  | 1171.5  | 1206.5  |
| 77.5° | 1055.0  | 1113.2  | 1142.4  | 1142.4  | 1107.4  | 990.9   | 938.4   | 862.6   | 798.5   | 722.8   | 734.4   |
| 80°   | 740.2   | 781.0   | 827.6   | 821.8   | 763.5   | 705.3   | 629.5   | 559.5   | 507.1   | 448.8   | 443.0   |
| 82.5° | 553.7   | 577.0   | 600.3   | 588.7   | 547.9   | 489.6   | 437.2   | 373.1   | 314.7   | 273.9   | 273.9   |
| 85°   | 198.1   | 215.6   | 262.3   | 273.9   | 297.3   | 297.3   | 250.6   | 209.8   | 169.0   | 139.9   | 139.9   |
| 87.5° | 58.3    | 58.3    | 64.1    | 64.1    | 58.3    | 64.1    | 52.5    | 58.3    | 64.1    | 40.8    | 40.8    |
| 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)