

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: P324883

Luminaire Tested: **GAN-SA9B-760-U-AFL-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P324883  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-760-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 41822 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

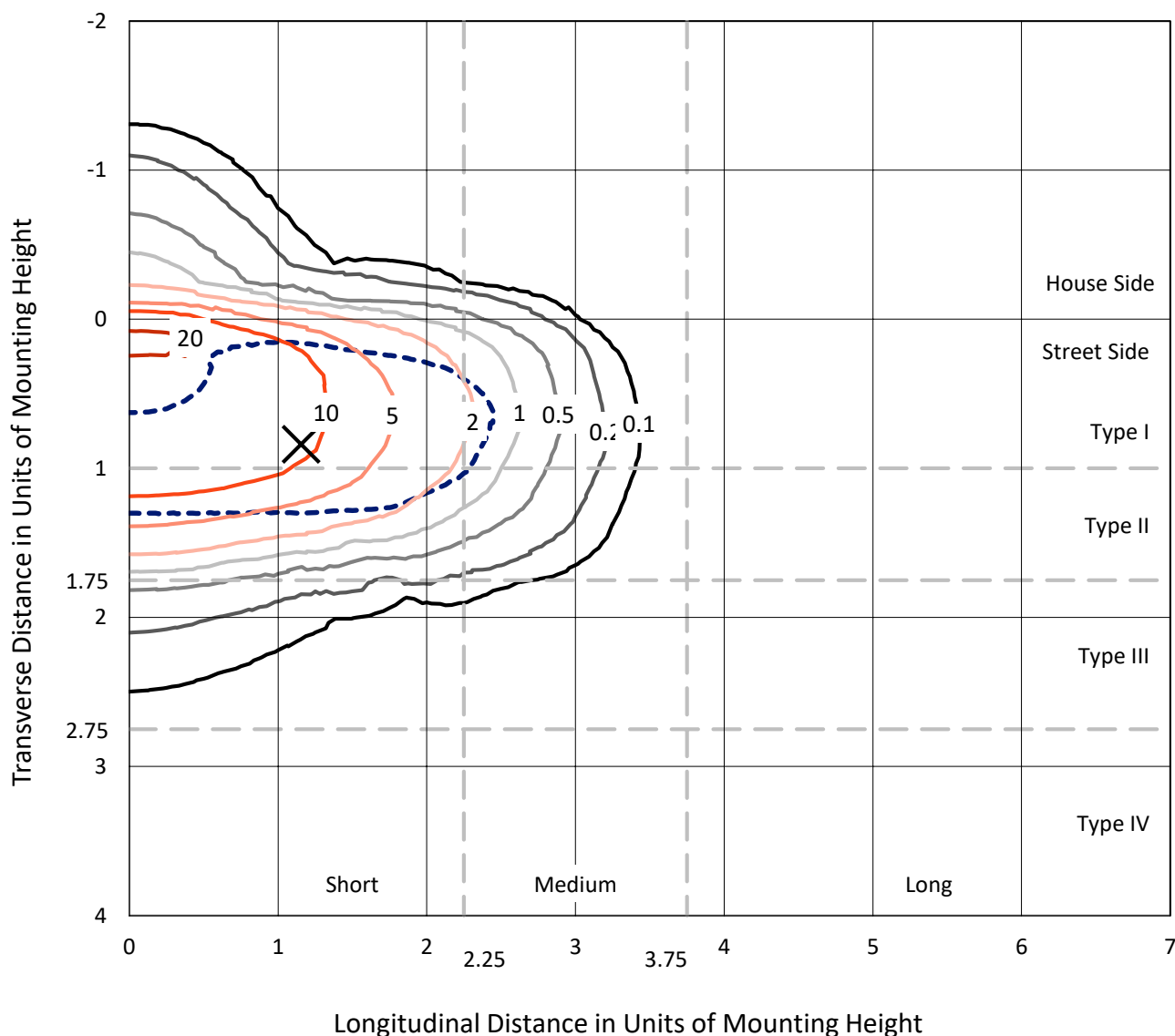
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P324883  
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## Iso-Footcandle Lines of Horizontal Illumination

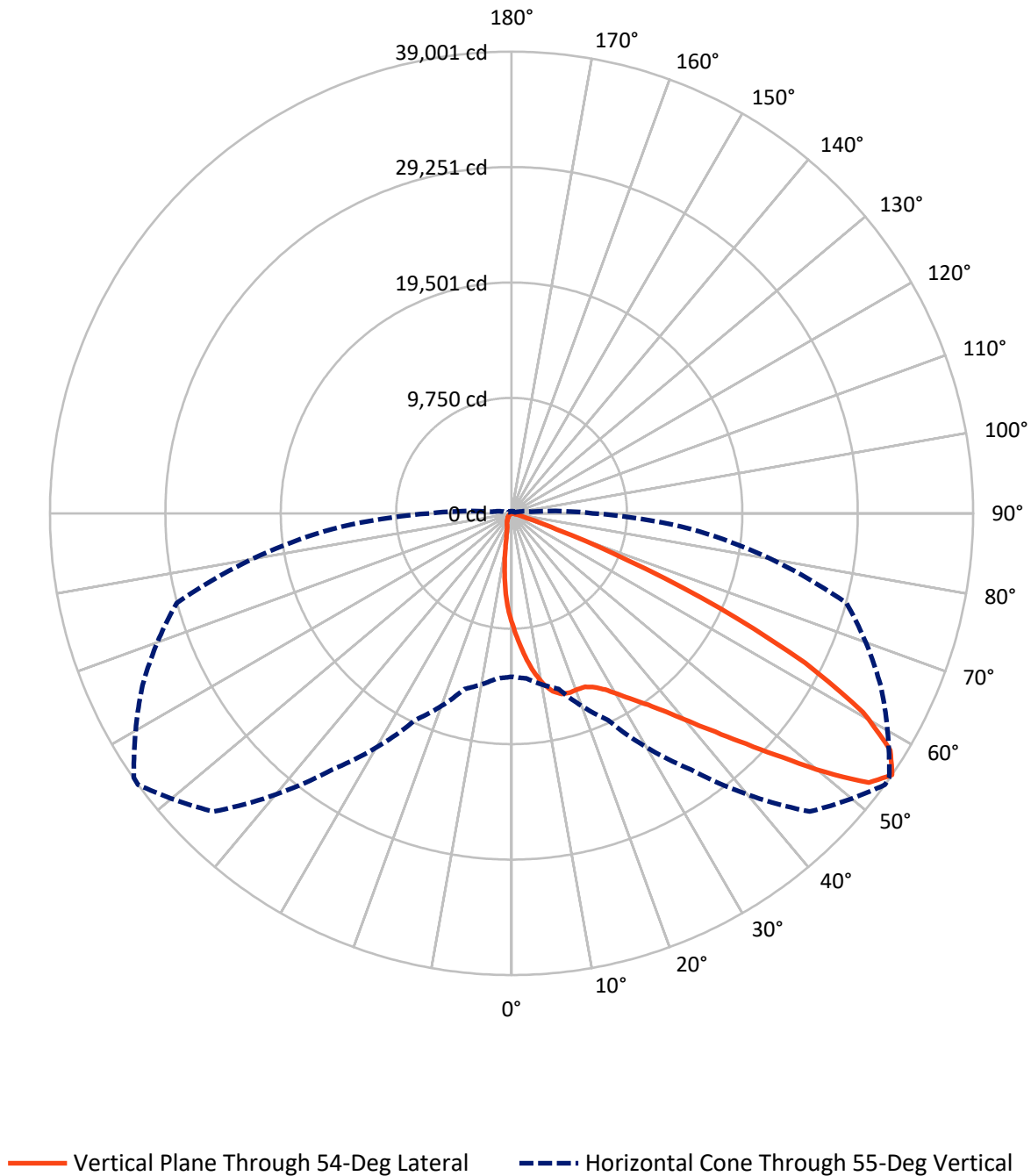
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc  
 Type II - Short - N/A

REPORT NUMBER: P324883  
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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2086.6   | 0.0    | 2086.6  |
|                    | % Fixture | 5.0      | 0.0    | 5.0     |
| <b>Street Side</b> | Lumens    | 39735.4  | 0.0    | 39735.4 |
|                    | % Fixture | 95.0     | 0.0    | 95.0    |
| <b>Total</b>       | Lumens    | 41822.0  | 0.0    | 41822.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 862.5   | 2.1       |
| 10°-20°   | 2365.6  | 5.7       |
| 20°-30°   | 4038.8  | 9.7       |
| 30°-40°   | 6481.6  | 15.5      |
| 40°-50°   | 10357.6 | 24.8      |
| 50°-60°   | 11098.4 | 26.5      |
| 60°-70°   | 5698.2  | 13.6      |
| 70°-80°   | 863.1   | 2.1       |
| 80°-90°   | 56.2    | 0.1       |
| 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°    | 41822.0 | 100.0     |
| 0°-180°   | 41822.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P324883

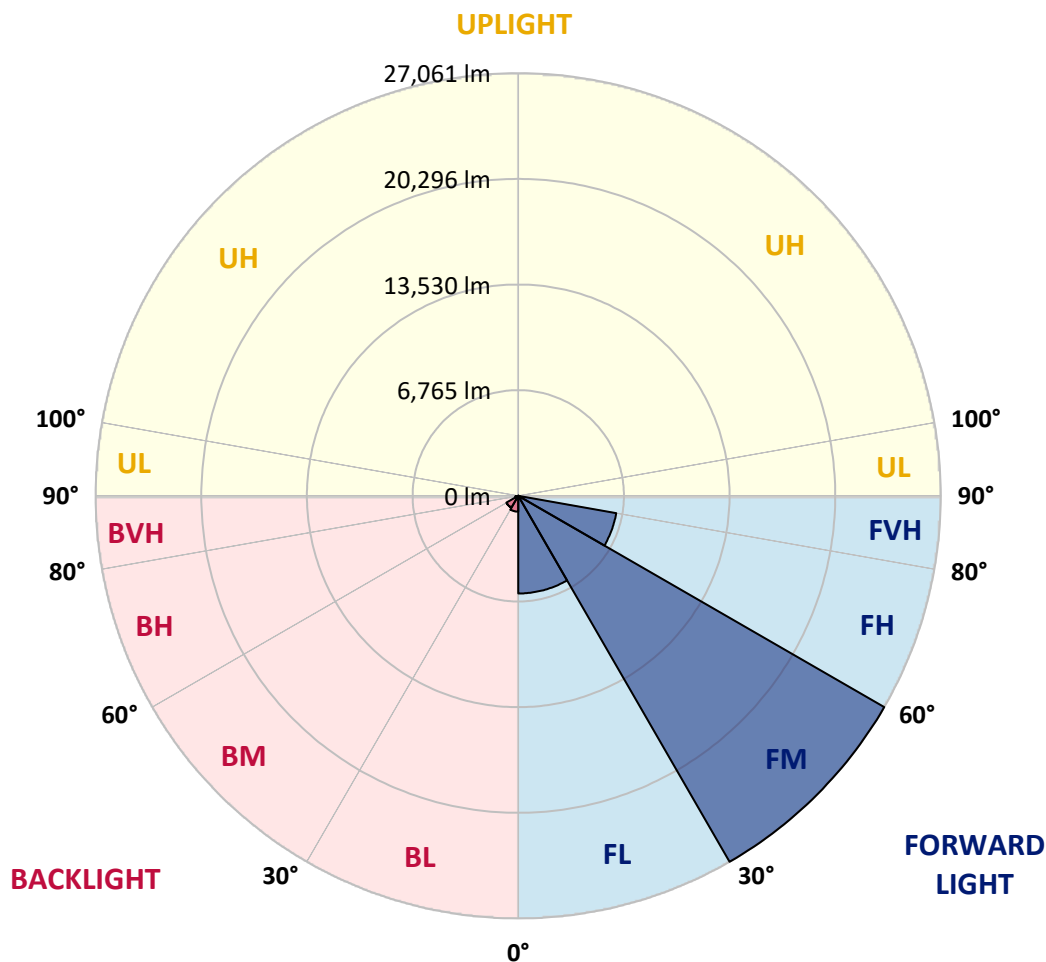
CATALOG NUMBER: GAN-SA9B-760-U-AFL-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 6251.7  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 27060.7 | 64.7      |                         |      |         |
| FH   | (60°-80°)   | 6369.1  | 15.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 53.9    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1015.2  | 2.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 876.8   | 2.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 192.3   | 0.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.3     | 0.0       |                         |      | G0/10   |
| 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: P324883

CATALOG NUMBER: GAN-SA9B-760-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9366.4  | 9366.4  | 9366.4  | 9366.4  | 9366.4  | 9366.4  | 9366.4  | 9366.4  | 9366.4  | 9366.4  | 9366.4  |
| 2.5°  | 11754.1 | 11578.9 | 11584.3 | 11504.9 | 11214.1 | 10986.5 | 10749.9 | 10693.9 | 10325.5 | 9939.0  | 9566.9  |
| 5°    | 13786.0 | 13657.7 | 13627.0 | 13473.5 | 13069.0 | 12640.9 | 12182.2 | 12075.6 | 11355.0 | 10563.9 | 9785.5  |
| 7.5°  | 14829.9 | 14831.7 | 14806.4 | 14750.4 | 14497.6 | 14082.2 | 13522.3 | 13410.3 | 12429.6 | 11243.0 | 10013.0 |
| 10°   | 14526.5 | 14595.1 | 14736.0 | 14922.0 | 15115.3 | 15062.9 | 14642.1 | 14540.9 | 13475.3 | 11961.8 | 10265.9 |
| 12.5° | 13818.5 | 13827.5 | 13984.7 | 14289.9 | 14846.2 | 15416.9 | 15424.1 | 15389.8 | 14474.1 | 12713.2 | 10544.0 |
| 15°   | 13466.3 | 13500.6 | 13558.4 | 13755.3 | 14282.7 | 15196.5 | 15850.4 | 15899.1 | 15389.8 | 13511.5 | 10840.2 |
| 17.5° | 13697.5 | 13746.2 | 13697.5 | 13721.0 | 14026.2 | 14848.0 | 15924.4 | 16049.0 | 16189.9 | 14300.7 | 11120.2 |
| 20°   | 14324.2 | 14369.4 | 14282.7 | 14186.9 | 14246.5 | 14746.8 | 15872.0 | 16040.0 | 16816.6 | 15001.5 | 11355.0 |
| 22.5° | 15169.5 | 15187.5 | 15055.7 | 14898.5 | 14855.2 | 15090.0 | 15915.4 | 16088.8 | 17318.7 | 15635.4 | 11503.1 |
| 25°   | 16099.6 | 16115.9 | 15951.5 | 15770.9 | 15667.9 | 15763.7 | 16271.2 | 16401.2 | 17761.2 | 16240.5 | 11588.0 |
| 27.5° | 17112.8 | 17127.3 | 16921.4 | 16699.2 | 16580.0 | 16583.6 | 16858.2 | 16997.2 | 18232.6 | 16930.4 | 11656.6 |
| 30°   | 18183.8 | 18176.6 | 17987.0 | 17678.1 | 17526.4 | 17522.8 | 17703.4 | 17844.3 | 18915.3 | 17815.4 | 11750.5 |
| 32.5° | 19386.7 | 19372.3 | 19103.2 | 18720.3 | 18548.7 | 18574.0 | 18734.7 | 18816.0 | 19762.4 | 18758.2 | 11918.5 |
| 35°   | 20970.7 | 20929.1 | 20522.7 | 20047.7 | 19731.7 | 19722.6 | 19858.1 | 19923.1 | 20842.4 | 19899.6 | 12198.4 |
| 37.5° | 23026.0 | 22988.1 | 22437.2 | 21747.3 | 21303.0 | 21136.8 | 21297.6 | 21380.6 | 22383.0 | 21364.4 | 12648.1 |
| 40°   | 25052.5 | 25014.5 | 24687.6 | 24055.5 | 23371.0 | 22971.8 | 23098.2 | 23186.7 | 24306.5 | 23141.6 | 13215.3 |
| 42.5° | 26450.4 | 26482.9 | 26596.7 | 26649.0 | 26007.9 | 25169.8 | 25227.6 | 25319.8 | 26327.6 | 25041.6 | 13863.6 |
| 45°   | 26818.8 | 26889.3 | 27532.2 | 28794.7 | 29034.9 | 28381.1 | 27776.1 | 27826.6 | 28381.1 | 26941.6 | 14512.0 |
| 47.5° | 25711.7 | 25841.7 | 27082.5 | 29430.4 | 31464.1 | 31926.5 | 30781.4 | 30714.6 | 30351.6 | 28478.6 | 14972.6 |
| 50°   | 23195.8 | 23315.0 | 24922.4 | 28395.5 | 32201.0 | 35311.1 | 34382.8 | 34185.9 | 32080.0 | 29397.9 | 15135.1 |
| 52.5° | 19554.7 | 19699.2 | 21005.0 | 25137.3 | 30812.1 | 36821.0 | 37792.7 | 37628.3 | 33347.9 | 29470.2 | 15162.2 |
| 55°   | 13809.5 | 13984.7 | 15366.3 | 19265.7 | 26410.6 | 35620.0 | 39001.0 | 38952.2 | 34400.8 | 29278.7 | 15220.0 |
| 57.5° | 7760.8  | 7887.3  | 9377.3  | 12350.1 | 19343.4 | 31025.2 | 37738.5 | 38061.8 | 35036.6 | 28946.4 | 15306.7 |
| 60°   | 3446.0  | 3480.4  | 4251.6  | 6148.0  | 11324.3 | 23710.5 | 34124.5 | 34670.0 | 34491.1 | 28502.1 | 15453.0 |
| 62.5° | 1910.9  | 1882.0  | 1882.0  | 2555.6  | 4921.6  | 14678.2 | 27826.6 | 28727.9 | 32163.1 | 27976.5 | 15460.2 |
| 65°   | 1497.3  | 1470.2  | 1392.5  | 1403.3  | 1874.7  | 6514.6  | 19269.3 | 20871.3 | 27741.7 | 26435.9 | 14940.1 |
| 67.5° | 1269.7  | 1246.2  | 1168.5  | 1137.8  | 1164.9  | 2149.3  | 10587.4 | 12250.8 | 21050.1 | 22431.8 | 12940.7 |
| 70°   | 1072.8  | 1056.6  | 1016.8  | 978.9   | 910.3   | 1062.0  | 4051.1  | 5181.7  | 12971.4 | 14922.0 | 8833.6  |
| 72.5° | 863.3   | 856.1   | 870.5   | 838.0   | 755.0   | 708.0   | 1385.3  | 1677.9  | 5826.5  | 6659.1  | 3639.3  |
| 75°   | 744.1   | 740.5   | 747.7   | 715.2   | 621.3   | 493.1   | 704.4   | 769.4   | 1643.6  | 1629.1  | 736.9   |
| 77.5° | 484.0   | 489.5   | 619.5   | 605.0   | 534.6   | 328.7   | 364.8   | 393.7   | 498.5   | 373.9   | 224.0   |
| 80°   | 308.8   | 305.2   | 314.3   | 502.1   | 480.4   | 251.0   | 182.4   | 191.4   | 240.2   | 184.2   | 108.4   |
| 82.5° | 187.8   | 184.2   | 205.9   | 234.8   | 242.0   | 175.2   | 112.0   | 113.8   | 149.9   | 119.2   | 57.8    |
| 85°   | 16.3    | 21.7    | 124.6   | 115.6   | 83.1    | 54.2    | 54.2    | 57.8    | 79.5    | 70.4    | 32.5    |
| 87.5° | 0.0     | 0.0     | 21.7    | 32.5    | 18.1    | 19.9    | 19.9    | 21.7    | 30.7    | 30.7    | 16.3    |
| 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: P324883

CATALOG NUMBER: GAN-SA9B-760-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9366.4 | 9366.4 | 9366.4 | 9366.4 | 9366.4 | 9366.4 | 9366.4 | 9366.4 | 9366.4 | 9366.4 | 9366.4 |
| 2.5°  | 9373.7 | 9185.8 | 8806.6 | 8441.7 | 8132.9 | 7834.9 | 7495.3 | 7159.4 | 7002.3 | 6939.0 | 6874.0 |
| 5°    | 9389.9 | 9003.4 | 8221.4 | 7433.9 | 6617.6 | 5882.5 | 5255.8 | 4612.8 | 4291.3 | 4150.4 | 4085.4 |
| 7.5°  | 9411.6 | 8822.8 | 7558.5 | 6236.5 | 4921.6 | 3924.7 | 3054.1 | 2494.2 | 2252.2 | 2214.3 | 2120.4 |
| 10°   | 9415.2 | 8604.3 | 6789.1 | 4914.4 | 3299.7 | 2366.0 | 1820.6 | 1531.6 | 1425.0 | 1407.0 | 1376.3 |
| 12.5° | 9422.4 | 8346.0 | 5934.9 | 3639.3 | 2199.8 | 1582.1 | 1316.6 | 1220.9 | 1192.0 | 1190.2 | 1190.2 |
| 15°   | 9444.1 | 8075.1 | 5048.1 | 2622.5 | 1580.3 | 1253.4 | 1155.9 | 1118.0 | 1107.1 | 1112.6 | 1110.8 |
| 17.5° | 9444.1 | 7755.4 | 4177.5 | 1954.2 | 1276.9 | 1127.0 | 1072.8 | 1047.5 | 1043.9 | 1049.3 | 1051.2 |
| 20°   | 9375.5 | 7367.1 | 3379.2 | 1520.7 | 1132.4 | 1045.7 | 997.0  | 973.5  | 964.5  | 968.1  | 969.9  |
| 22.5° | 9211.1 | 6890.3 | 2729.0 | 1258.9 | 1036.7 | 971.7  | 919.3  | 883.2  | 868.7  | 870.5  | 870.5  |
| 25°   | 8954.7 | 6325.0 | 2134.8 | 1089.1 | 959.0  | 892.2  | 830.8  | 789.3  | 780.2  | 778.4  | 782.0  |
| 27.5° | 8625.9 | 5700.1 | 1699.5 | 959.0  | 866.9  | 803.7  | 742.3  | 708.0  | 700.8  | 702.6  | 704.4  |
| 30°   | 8302.7 | 5051.7 | 1340.1 | 848.9  | 764.0  | 704.4  | 657.4  | 641.2  | 641.2  | 646.6  | 648.4  |
| 32.5° | 8006.5 | 4428.6 | 1060.2 | 753.1  | 671.9  | 617.7  | 590.6  | 588.8  | 597.8  | 601.4  | 603.2  |
| 35°   | 7751.8 | 3852.4 | 877.8  | 679.1  | 599.6  | 552.7  | 543.6  | 550.9  | 561.7  | 568.9  | 570.7  |
| 37.5° | 7571.2 | 3337.7 | 767.6  | 617.7  | 543.6  | 505.7  | 503.9  | 518.4  | 532.8  | 549.1  | 552.7  |
| 40°   | 7495.3 | 2902.4 | 691.7  | 563.5  | 498.5  | 469.6  | 464.2  | 484.0  | 511.1  | 534.6  | 538.2  |
| 42.5° | 7432.1 | 2546.6 | 626.7  | 511.1  | 462.4  | 420.8  | 419.0  | 444.3  | 476.8  | 500.3  | 505.7  |
| 45°   | 7377.9 | 2261.2 | 567.1  | 455.1  | 415.4  | 361.2  | 366.6  | 399.1  | 424.4  | 449.7  | 455.1  |
| 47.5° | 7266.0 | 2026.4 | 502.1  | 395.5  | 343.2  | 308.8  | 319.7  | 348.6  | 368.4  | 406.4  | 411.8  |
| 50°   | 7065.5 | 1835.0 | 435.3  | 323.3  | 279.9  | 267.3  | 283.6  | 303.4  | 328.7  | 361.2  | 364.8  |
| 52.5° | 6930.0 | 1690.5 | 377.5  | 270.9  | 231.2  | 234.8  | 251.0  | 258.3  | 272.7  | 285.4  | 281.8  |
| 55°   | 6852.4 | 1611.0 | 330.5  | 234.8  | 196.9  | 207.7  | 211.3  | 202.3  | 195.1  | 182.4  | 177.0  |
| 57.5° | 6843.3 | 1538.8 | 294.4  | 204.1  | 173.4  | 178.8  | 166.2  | 135.5  | 110.2  | 95.7   | 92.1   |
| 60°   | 6828.9 | 1450.3 | 265.5  | 171.6  | 153.5  | 146.3  | 119.2  | 74.1   | 52.4   | 48.8   | 48.8   |
| 62.5° | 6671.7 | 1313.0 | 243.8  | 144.5  | 130.0  | 110.2  | 68.6   | 34.3   | 28.9   | 30.7   | 30.7   |
| 65°   | 6171.5 | 1121.6 | 222.2  | 117.4  | 102.9  | 79.5   | 34.3   | 19.9   | 10.8   | 12.6   | 12.6   |
| 67.5° | 5246.7 | 894.0  | 198.7  | 90.3   | 77.7   | 50.6   | 19.9   | 9.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 3512.9 | 554.5  | 168.0  | 63.2   | 50.6   | 30.7   | 14.4   | 1.8    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1347.4 | 299.8  | 135.5  | 37.9   | 32.5   | 21.7   | 9.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 303.4  | 196.9  | 93.9   | 27.1   | 23.5   | 14.4   | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 115.6  | 142.7  | 54.2   | 18.1   | 16.3   | 9.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 56.0   | 84.9   | 25.3   | 10.8   | 9.0    | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 28.9   | 32.5   | 10.8   | 5.4    | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 16.3   | 16.3   | 5.4    | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 9.0    | 5.4    | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)