

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: P323211

Luminaire Tested: **GAN-SA7C-740-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41438 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

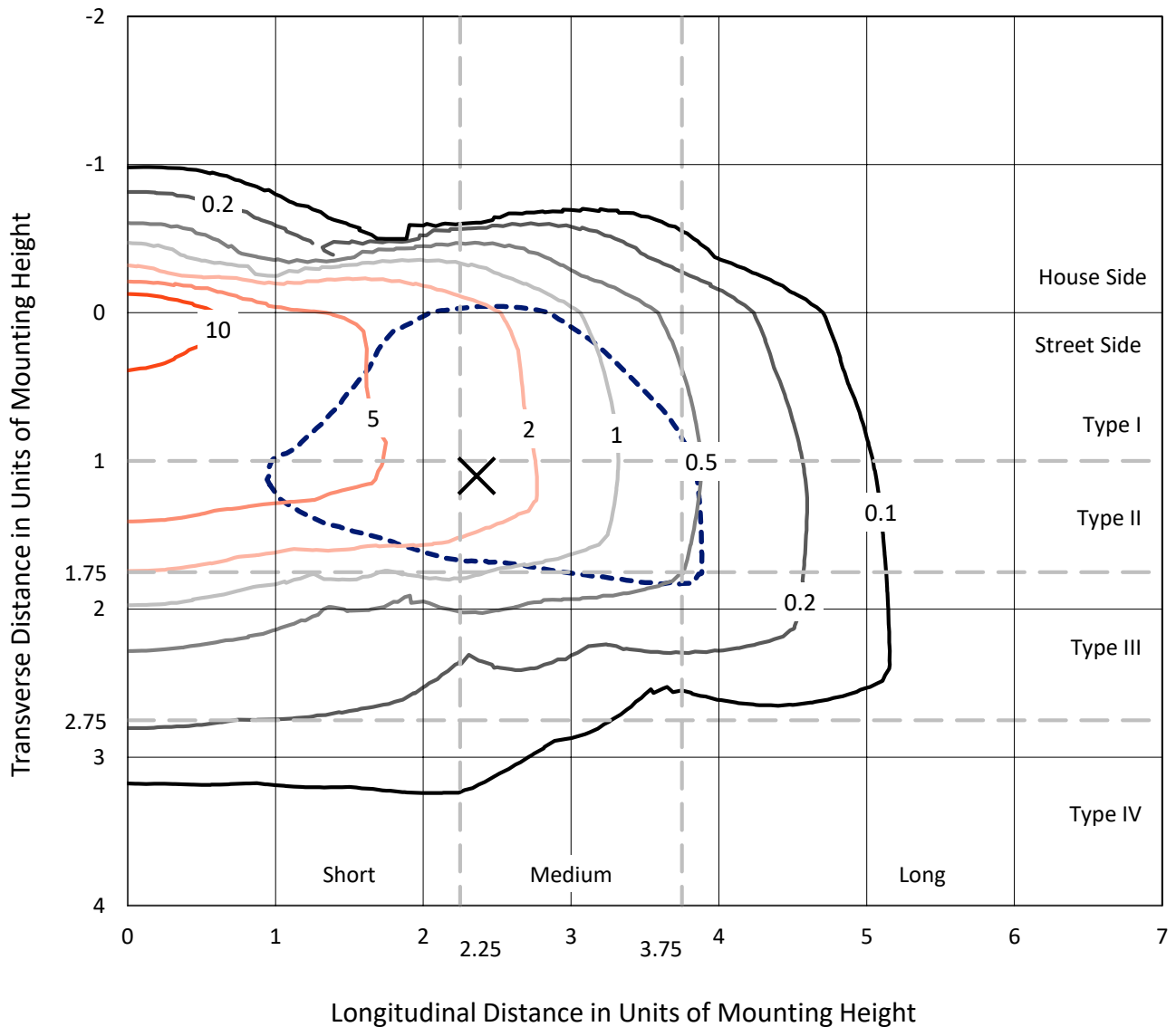
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323211
 CATALOG NUMBER: GAN-SA7C-740-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

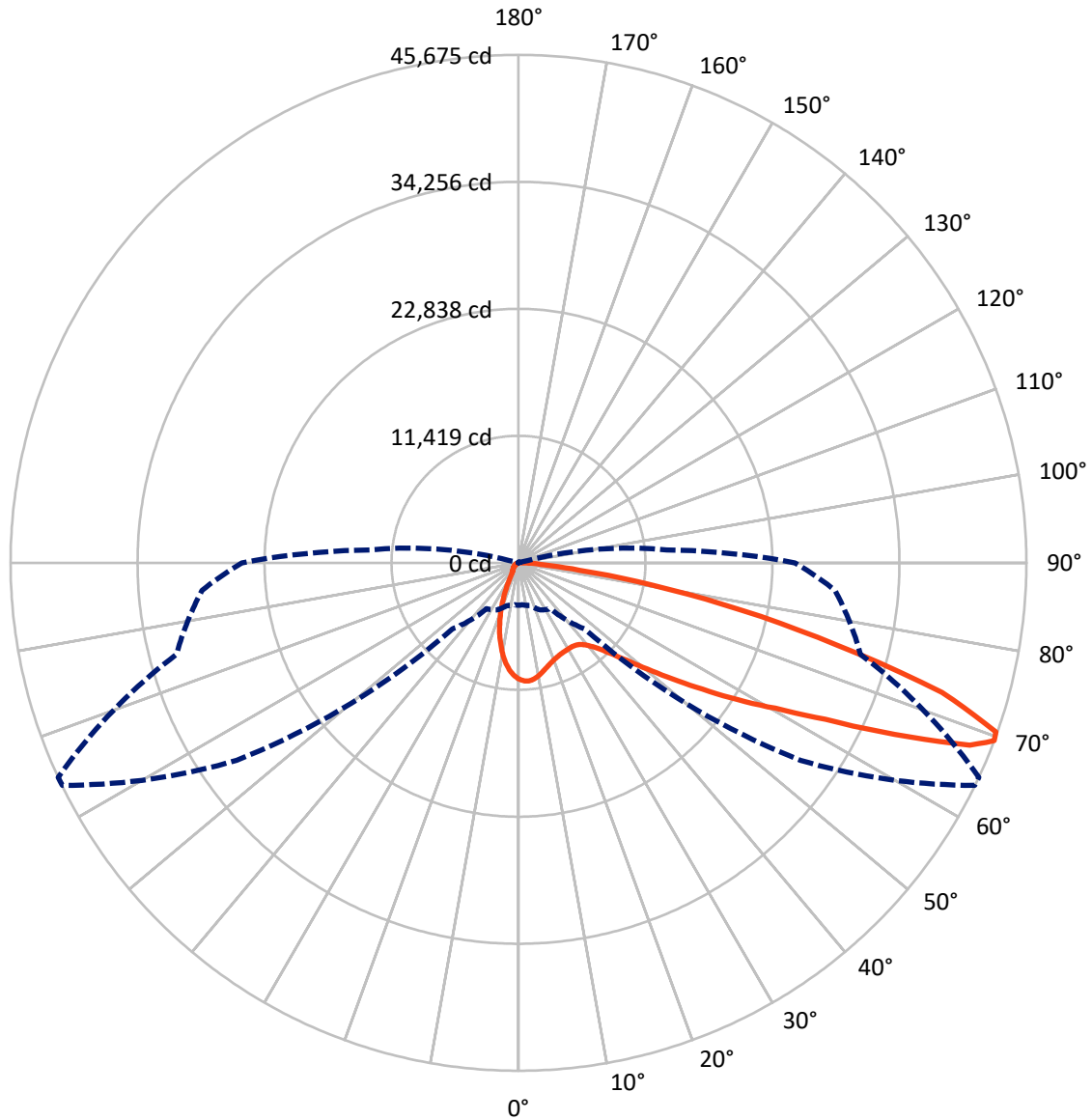
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P323211
CATALOG NUMBER: GAN-SA7C-740-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P323211
 CATALOG NUMBER: GAN-SA7C-740-U-SL2-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4884.6 | 0.0 | 4884.6 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 36553.4 | 0.0 | 36553.4 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 41438.0 | 0.0 | 41438.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 875.6 | 2.1 |
| 10°-20° | 1916.8 | 4.6 |
| 20°-30° | 2654.8 | 6.4 |
| 30°-40° | 3701.7 | 8.9 |
| 40°-50° | 5753.6 | 13.9 |
| 50°-60° | 9236.8 | 22.3 |
| 60°-70° | 10448.4 | 25.2 |
| 70°-80° | 6136.4 | 14.8 |
| 80°-90° | 713.8 | 1.7 |
| 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° | 41438.0 | 100.0 |
| 0°-180° | 41438.0 | 100.0 |

Coefficient of Utilization

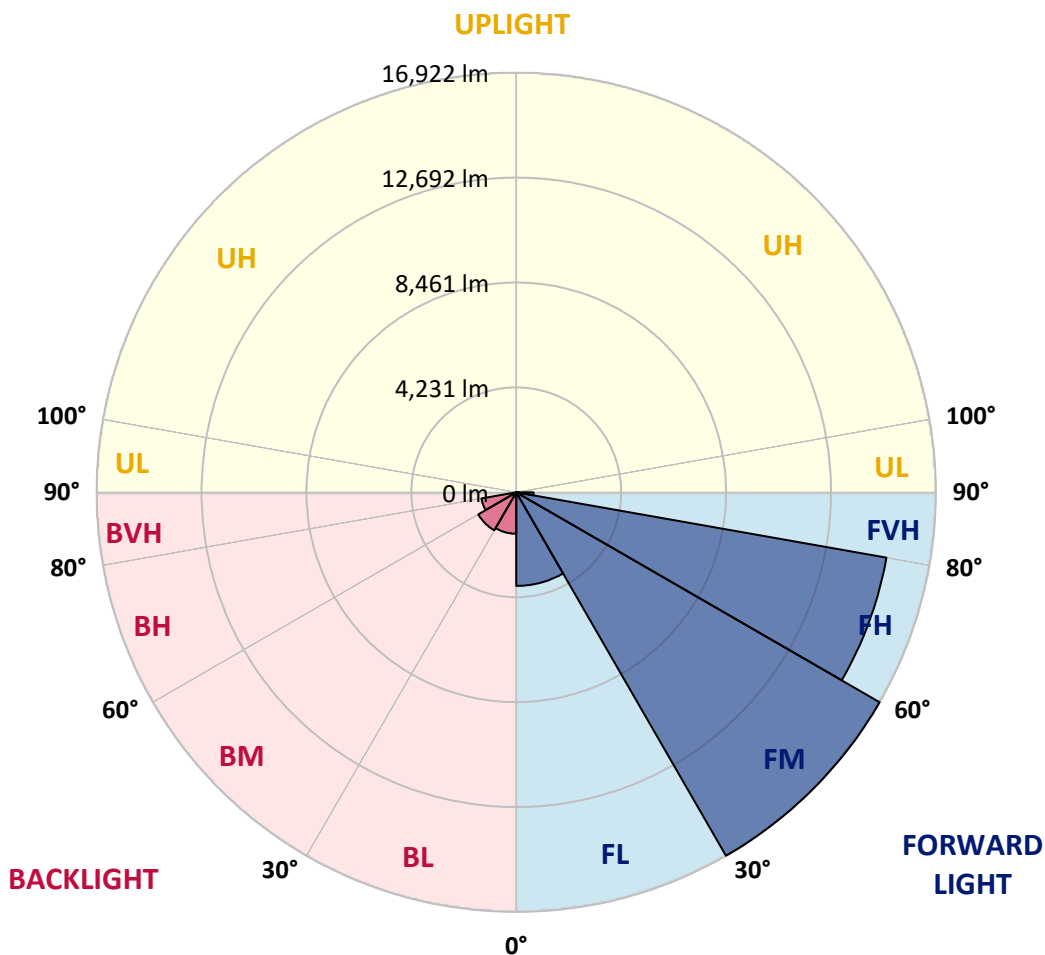


REPORT NUMBER: P323211
 CATALOG NUMBER: GAN-SA7C-740-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3776.0 | 9.1 | | | |
| FM (30°-60°) | 16922.1 | 40.8 | | | |
| FH (60°-80°) | 15157.6 | 36.6 | | | G5 |
| FVH (80°-90°) | 697.8 | 1.7 | | | G4/750 |
| BL (0°-30°) | 1671.3 | 4.0 | B3/2500 | | |
| BM (30°-60°) | 1770.0 | 4.3 | B2/2500 | | |
| BH (60°-80°) | 1427.2 | 3.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 16.1 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Medium





REPORT NUMBER: P323211
 CATALOG NUMBER: GAN-SA7C-740-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10471.5 | 10471.5 | 10471.5 | 10471.5 | 10471.5 | 10471.5 | 10471.5 | 10471.5 | 10471.5 | 10471.5 | 10471.5 |
| 2.5° | 10564.4 | 10538.1 | 10559.1 | 10604.7 | 10627.5 | 10627.5 | 10645.0 | 10624.0 | 10631.0 | 10580.2 | 10506.5 |
| 5° | 9903.3 | 9863.0 | 9920.9 | 10048.9 | 10206.7 | 10341.7 | 10541.6 | 10646.8 | 10657.3 | 10659.1 | 10573.2 |
| 7.5° | 9191.5 | 9154.6 | 9240.6 | 9391.3 | 9594.7 | 9845.5 | 10194.4 | 10499.5 | 10517.0 | 10681.9 | 10618.7 |
| 10° | 8612.8 | 8586.5 | 8686.5 | 8847.8 | 9086.2 | 9366.8 | 9794.6 | 10219.0 | 10269.8 | 10634.5 | 10611.7 |
| 12.5° | 8153.4 | 8132.4 | 8227.1 | 8412.9 | 8656.7 | 8967.0 | 9414.1 | 9906.9 | 9975.2 | 10527.6 | 10576.7 |
| 15° | 7818.5 | 7815.0 | 7893.9 | 8072.8 | 8342.8 | 8632.1 | 9089.8 | 9617.5 | 9696.4 | 10411.8 | 10571.4 |
| 17.5° | 7643.2 | 7648.4 | 7706.3 | 7858.9 | 8090.3 | 8377.9 | 8816.2 | 9373.8 | 9459.7 | 10308.4 | 10597.7 |
| 20° | 7625.6 | 7630.9 | 7662.5 | 7748.4 | 7936.0 | 8190.2 | 8593.5 | 9168.7 | 9258.1 | 10231.2 | 10639.8 |
| 22.5° | 7779.9 | 7776.4 | 7785.2 | 7776.4 | 7881.6 | 8074.5 | 8446.2 | 9010.9 | 9114.3 | 10180.4 | 10673.1 |
| 25° | 8076.3 | 8071.0 | 8067.5 | 8002.6 | 7932.5 | 8035.9 | 8384.9 | 8921.4 | 9019.6 | 10143.6 | 10692.4 |
| 27.5° | 8488.3 | 8484.8 | 8479.6 | 8372.6 | 8162.2 | 8097.3 | 8391.9 | 8888.1 | 8970.5 | 10113.8 | 10688.9 |
| 30° | 9030.1 | 9054.7 | 9047.7 | 8898.6 | 8570.7 | 8284.9 | 8465.5 | 8870.6 | 8942.5 | 10055.9 | 10652.1 |
| 32.5° | 9666.6 | 9715.7 | 9754.3 | 9594.7 | 9184.4 | 8656.7 | 8635.6 | 8889.9 | 8942.5 | 10012.1 | 10585.4 |
| 35° | 10327.7 | 10390.8 | 10532.8 | 10476.7 | 9936.7 | 9216.0 | 8928.4 | 9005.6 | 9049.4 | 10036.6 | 10553.9 |
| 37.5° | 10978.2 | 11053.6 | 11362.2 | 11525.3 | 10922.1 | 9955.9 | 9384.3 | 9291.4 | 9314.2 | 10185.6 | 10588.9 |
| 40° | 11733.9 | 11847.9 | 12316.1 | 12579.1 | 12098.6 | 10946.6 | 10066.4 | 9782.4 | 9791.1 | 10513.5 | 10752.0 |
| 42.5° | 12726.4 | 12843.8 | 13350.6 | 13762.6 | 13424.2 | 12198.6 | 10992.2 | 10532.8 | 10524.1 | 11127.2 | 11136.0 |
| 45° | 13936.2 | 14059.0 | 14583.2 | 15040.9 | 14888.3 | 13682.0 | 12177.5 | 11628.7 | 11618.2 | 12095.1 | 11863.7 |
| 47.5° | 15307.4 | 15428.4 | 15896.6 | 16368.2 | 16533.0 | 15414.4 | 13687.2 | 13124.4 | 13099.8 | 13440.0 | 12987.6 |
| 50° | 16484.0 | 16562.9 | 16994.2 | 17628.9 | 18372.4 | 17543.0 | 15565.2 | 15023.3 | 14997.0 | 15226.7 | 14637.6 |
| 52.5° | 16911.8 | 16957.4 | 17395.7 | 18284.7 | 20139.8 | 20425.6 | 18032.2 | 17334.4 | 17315.1 | 17415.0 | 16834.6 |
| 55° | 16045.6 | 16128.0 | 16666.3 | 17984.9 | 21097.2 | 23683.5 | 21146.3 | 20196.0 | 20050.4 | 19834.7 | 19131.6 |
| 57.5° | 13685.5 | 13817.0 | 14395.6 | 16149.0 | 20650.1 | 26268.1 | 25722.7 | 23432.8 | 23218.9 | 21900.3 | 20999.0 |
| 60° | 10254.0 | 10415.3 | 10895.8 | 12787.7 | 18263.7 | 27188.6 | 30723.5 | 27039.6 | 26557.4 | 23545.0 | 22715.6 |
| 62.5° | 7036.5 | 7117.2 | 7443.3 | 8675.9 | 13450.5 | 25680.7 | 34907.2 | 31870.3 | 30990.0 | 25333.5 | 24572.5 |
| 65° | 5374.2 | 5402.3 | 5535.6 | 5959.9 | 8009.6 | 20860.5 | 36571.2 | 38244.0 | 37179.6 | 27472.7 | 26499.5 |
| 67.5° | 4331.0 | 4308.2 | 4492.3 | 5099.0 | 5363.7 | 12726.4 | 34630.1 | 44274.0 | 43776.0 | 30332.5 | 28438.8 |
| 69° | 3819.0 | 3787.4 | 3975.0 | 4679.9 | 5037.6 | 8412.9 | 30958.5 | 45643.4 | 45675.0 | 31842.2 | 28572.1 |
| 70° | 3436.7 | 3457.8 | 3643.6 | 4430.9 | 4927.1 | 6603.4 | 27451.6 | 45294.5 | 45543.5 | 32406.8 | 27772.5 |
| 72.5° | 2295.2 | 2351.3 | 2724.8 | 3678.7 | 4737.8 | 4997.3 | 16575.1 | 38868.2 | 39825.5 | 31135.6 | 23827.3 |
| 75° | 1294.0 | 1336.1 | 1779.7 | 2773.9 | 4464.2 | 4758.8 | 8754.9 | 28635.2 | 29561.0 | 26036.6 | 18374.1 |
| 77.5° | 634.7 | 657.5 | 1006.5 | 1790.2 | 3733.0 | 4534.4 | 4965.7 | 19450.7 | 20508.1 | 16994.2 | 10392.6 |
| 80° | 268.3 | 280.5 | 503.2 | 1104.7 | 2668.7 | 4327.5 | 3687.5 | 11970.6 | 12102.1 | 6657.8 | 2768.7 |
| 82.5° | 103.5 | 107.0 | 212.2 | 689.1 | 1695.6 | 3373.6 | 3084.3 | 5675.8 | 5539.1 | 1253.7 | 631.2 |
| 85° | 12.3 | 14.0 | 77.2 | 413.8 | 943.3 | 1735.9 | 2505.6 | 2446.0 | 2263.7 | 249.0 | 324.4 |
| 87.5° | 0.0 | 0.0 | 5.3 | 126.2 | 280.5 | 813.6 | 1302.8 | 1015.2 | 915.3 | 80.7 | 168.3 |
| 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: P323211
 CATALOG NUMBER: GAN-SA7C-740-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10471.5 | 10471.5 | 10471.5 | 10471.5 | 10471.5 | 10471.5 | 10471.5 | 10471.5 | 10471.5 | 10471.5 | 10471.5 |
| 2.5° | 10445.2 | 10427.6 | 10332.9 | 10196.2 | 10066.4 | 9905.1 | 9750.8 | 9657.9 | 9584.2 | 9535.1 | 9593.0 |
| 5° | 10473.2 | 10396.1 | 10108.5 | 9740.3 | 9379.1 | 8972.3 | 8593.5 | 8272.7 | 8146.4 | 8006.1 | 8069.3 |
| 7.5° | 10464.4 | 10318.9 | 9801.6 | 9145.9 | 8483.1 | 7797.5 | 7148.7 | 6649.0 | 6389.5 | 6135.2 | 6200.1 |
| 10° | 10420.6 | 10175.1 | 9391.3 | 8419.9 | 7427.5 | 6442.1 | 5521.5 | 4821.9 | 4430.9 | 4076.7 | 4127.6 |
| 12.5° | 10324.2 | 9982.2 | 8907.4 | 7588.8 | 6261.5 | 4962.2 | 3883.8 | 2987.8 | 2507.4 | 2295.2 | 2321.5 |
| 15° | 10266.3 | 9794.6 | 8395.4 | 6747.2 | 5016.5 | 3456.0 | 2374.1 | 1765.7 | 1546.5 | 1476.4 | 1485.2 |
| 17.5° | 10238.2 | 9614.0 | 7865.9 | 5784.5 | 3743.6 | 2200.5 | 1534.2 | 1353.6 | 1306.3 | 1294.0 | 1297.5 |
| 20° | 10210.2 | 9431.7 | 7320.6 | 4832.4 | 2579.3 | 1479.9 | 1260.7 | 1208.1 | 1190.6 | 1174.8 | 1178.3 |
| 22.5° | 10162.9 | 9256.3 | 6734.9 | 3868.1 | 1739.4 | 1201.1 | 1136.2 | 1085.4 | 1048.5 | 1029.3 | 1032.8 |
| 25° | 10105.0 | 9072.2 | 6137.0 | 2880.9 | 1269.5 | 1071.3 | 1010.0 | 938.1 | 894.2 | 859.2 | 860.9 |
| 27.5° | 10012.1 | 8846.0 | 5519.8 | 2097.1 | 1066.1 | 959.1 | 876.7 | 797.8 | 724.2 | 683.8 | 683.8 |
| 30° | 9882.3 | 8590.0 | 4834.2 | 1500.9 | 955.6 | 848.7 | 748.7 | 650.5 | 571.6 | 534.8 | 531.3 |
| 32.5° | 9738.5 | 8323.5 | 4141.6 | 1138.0 | 867.9 | 745.2 | 631.2 | 527.8 | 457.6 | 427.8 | 426.1 |
| 35° | 9615.8 | 8035.9 | 3450.7 | 953.9 | 780.3 | 645.3 | 520.8 | 433.1 | 377.0 | 352.4 | 350.7 |
| 37.5° | 9536.9 | 7748.4 | 2777.4 | 852.2 | 701.4 | 552.3 | 436.6 | 357.7 | 317.4 | 298.1 | 296.3 |
| 40° | 9524.6 | 7534.5 | 2162.0 | 775.0 | 627.7 | 469.9 | 364.7 | 303.3 | 266.5 | 245.5 | 243.7 |
| 42.5° | 9684.2 | 7411.7 | 1658.7 | 710.1 | 552.3 | 398.0 | 310.4 | 259.5 | 220.9 | 199.9 | 198.1 |
| 45° | 10103.2 | 7450.3 | 1276.5 | 652.3 | 476.9 | 336.7 | 263.0 | 215.7 | 180.6 | 164.8 | 161.3 |
| 47.5° | 10867.7 | 7716.8 | 1015.2 | 594.4 | 405.0 | 285.8 | 224.4 | 178.8 | 149.0 | 133.3 | 131.5 |
| 50° | 12228.4 | 8342.8 | 848.7 | 531.3 | 338.4 | 243.7 | 185.9 | 145.5 | 121.0 | 107.0 | 105.2 |
| 52.5° | 14034.4 | 9458.0 | 757.5 | 469.9 | 280.5 | 206.9 | 152.5 | 115.7 | 94.7 | 84.2 | 82.4 |
| 55° | 16026.3 | 10808.1 | 697.9 | 403.3 | 229.7 | 171.8 | 121.0 | 91.2 | 73.6 | 64.9 | 61.4 |
| 57.5° | 17970.9 | 11977.6 | 641.8 | 338.4 | 191.1 | 140.3 | 96.4 | 71.9 | 57.9 | 49.1 | 47.3 |
| 60° | 19757.6 | 13052.5 | 576.9 | 271.8 | 156.1 | 110.5 | 75.4 | 56.1 | 45.6 | 36.8 | 36.8 |
| 62.5° | 21670.6 | 13883.6 | 487.5 | 212.2 | 128.0 | 84.2 | 61.4 | 50.8 | 36.8 | 31.6 | 29.8 |
| 65° | 23697.5 | 14500.8 | 382.2 | 164.8 | 99.9 | 63.1 | 50.8 | 52.6 | 29.8 | 22.8 | 21.0 |
| 67.5° | 25195.0 | 14378.1 | 282.3 | 129.8 | 77.2 | 49.1 | 49.1 | 56.1 | 26.3 | 17.5 | 15.8 |
| 69° | 24865.3 | 13380.4 | 236.7 | 112.2 | 66.6 | 42.1 | 45.6 | 56.1 | 24.5 | 15.8 | 14.0 |
| 70° | 23909.7 | 12275.7 | 208.7 | 99.9 | 59.6 | 38.6 | 43.8 | 54.4 | 22.8 | 15.8 | 14.0 |
| 72.5° | 19911.9 | 9245.8 | 163.1 | 75.4 | 47.3 | 31.6 | 36.8 | 47.3 | 22.8 | 15.8 | 12.3 |
| 75° | 14977.8 | 5917.8 | 124.5 | 54.4 | 35.1 | 24.5 | 28.1 | 35.1 | 22.8 | 14.0 | 12.3 |
| 77.5° | 8149.9 | 2133.9 | 89.4 | 36.8 | 24.5 | 19.3 | 19.3 | 26.3 | 21.0 | 10.5 | 7.0 |
| 80° | 2095.3 | 536.5 | 56.1 | 24.5 | 19.3 | 14.0 | 12.3 | 17.5 | 12.3 | 1.8 | 0.0 |
| 82.5° | 517.3 | 121.0 | 29.8 | 17.5 | 14.0 | 5.3 | 5.3 | 8.8 | 5.3 | 0.0 | 0.0 |
| 85° | 284.1 | 59.6 | 19.3 | 12.3 | 7.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 145.5 | 17.5 | 5.3 | 3.5 | 1.8 | 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)