

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: P650537

Luminaire Tested: **GLAN-SA7B-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27269.6 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

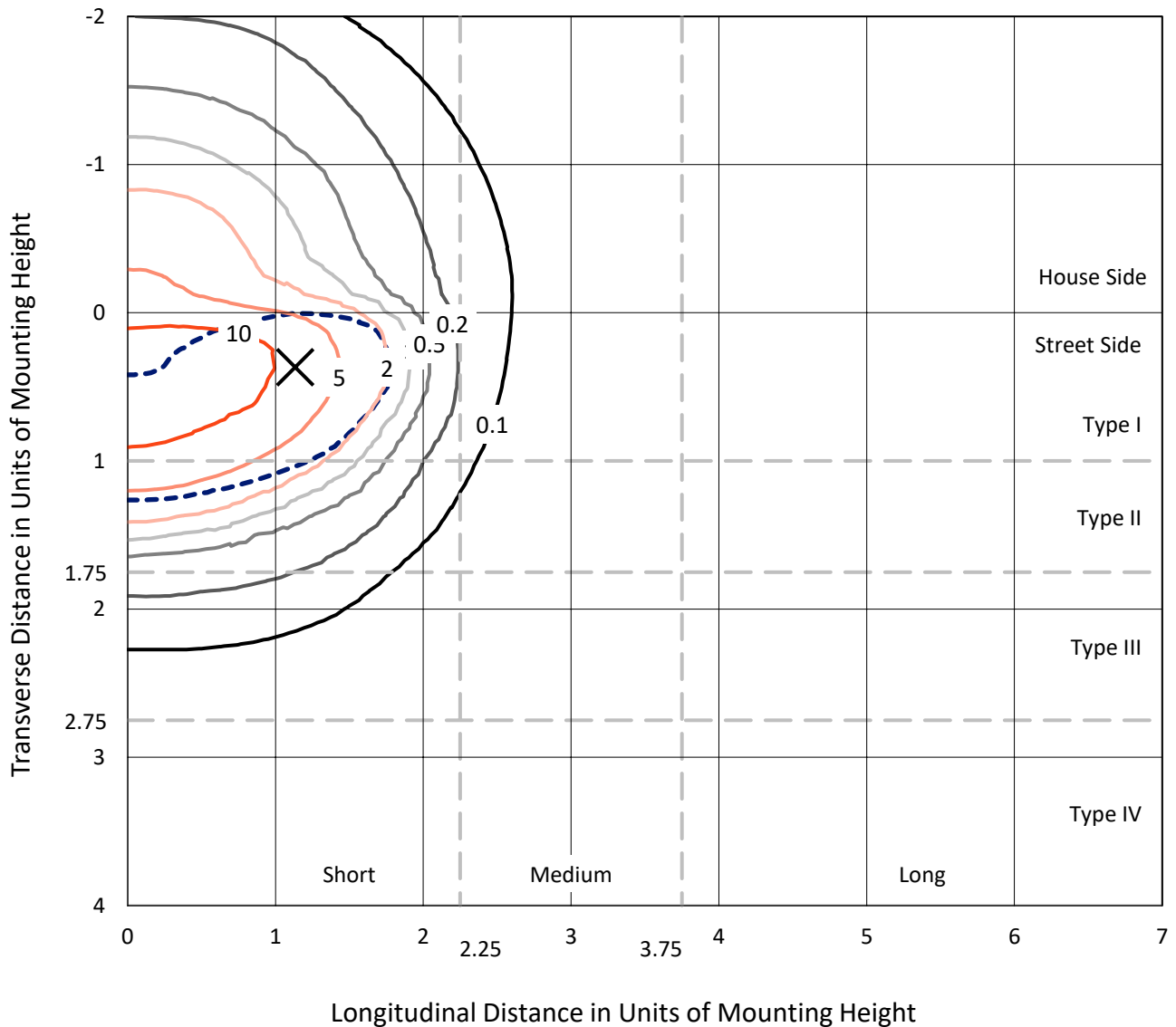
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

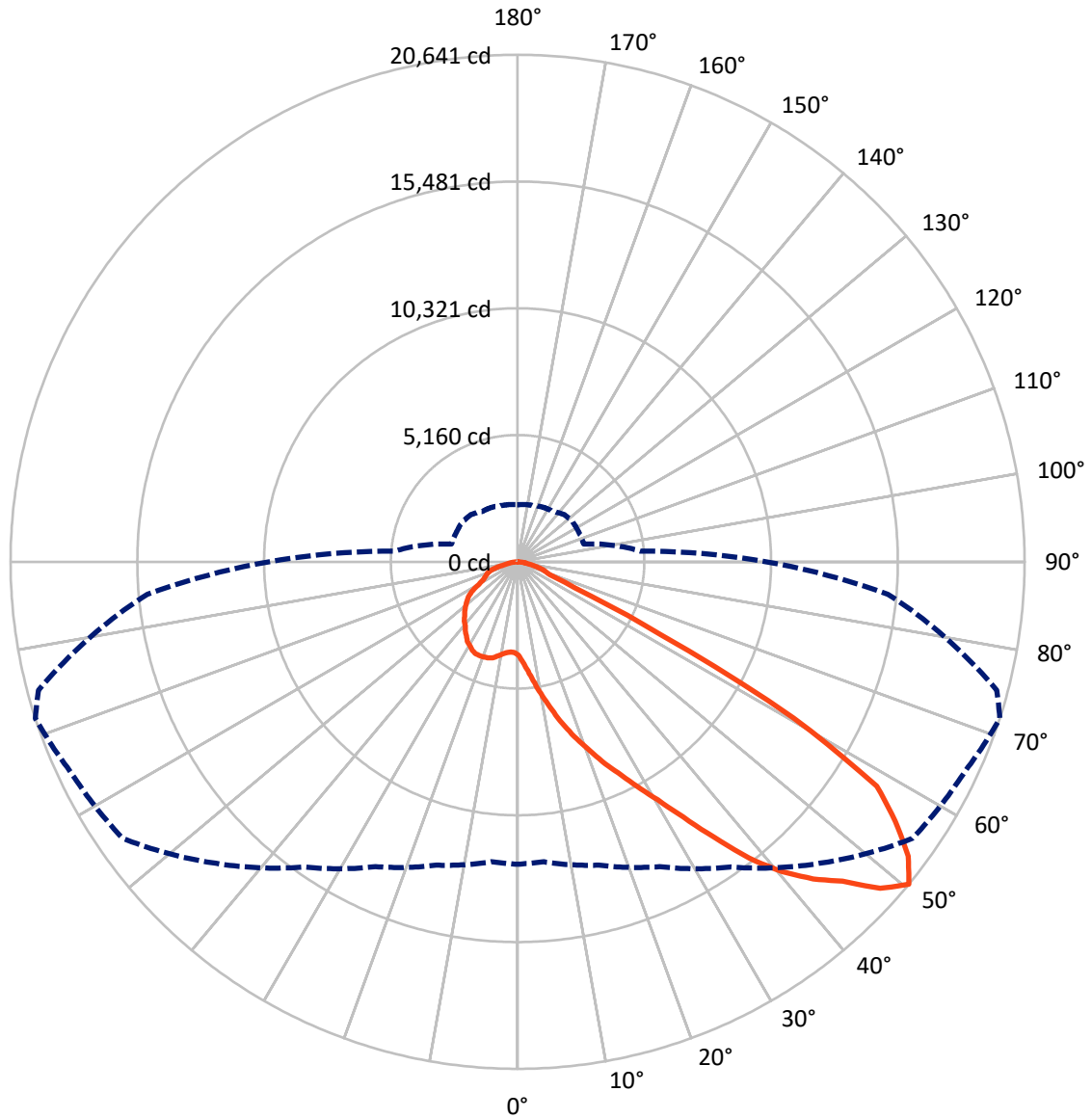
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6247.6 | 0.0 | 6247.6 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 21021.9 | 0.0 | 21021.9 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 27269.6 | 0.0 | 27269.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 446.5 | 1.6 |
| 10°-20° | 1669.3 | 6.1 |
| 20°-30° | 3236.6 | 11.9 |
| 30°-40° | 5361.9 | 19.7 |
| 40°-50° | 7502.4 | 27.5 |
| 50°-60° | 6329.3 | 23.2 |
| 60°-70° | 1929.2 | 7.1 |
| 70°-80° | 676.8 | 2.5 |
| 80°-90° | 117.7 | 0.4 |
| 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° | 27269.6 | 100.0 |
| 0°-180° | 27269.6 | 100.0 |

Coefficient of Utilization



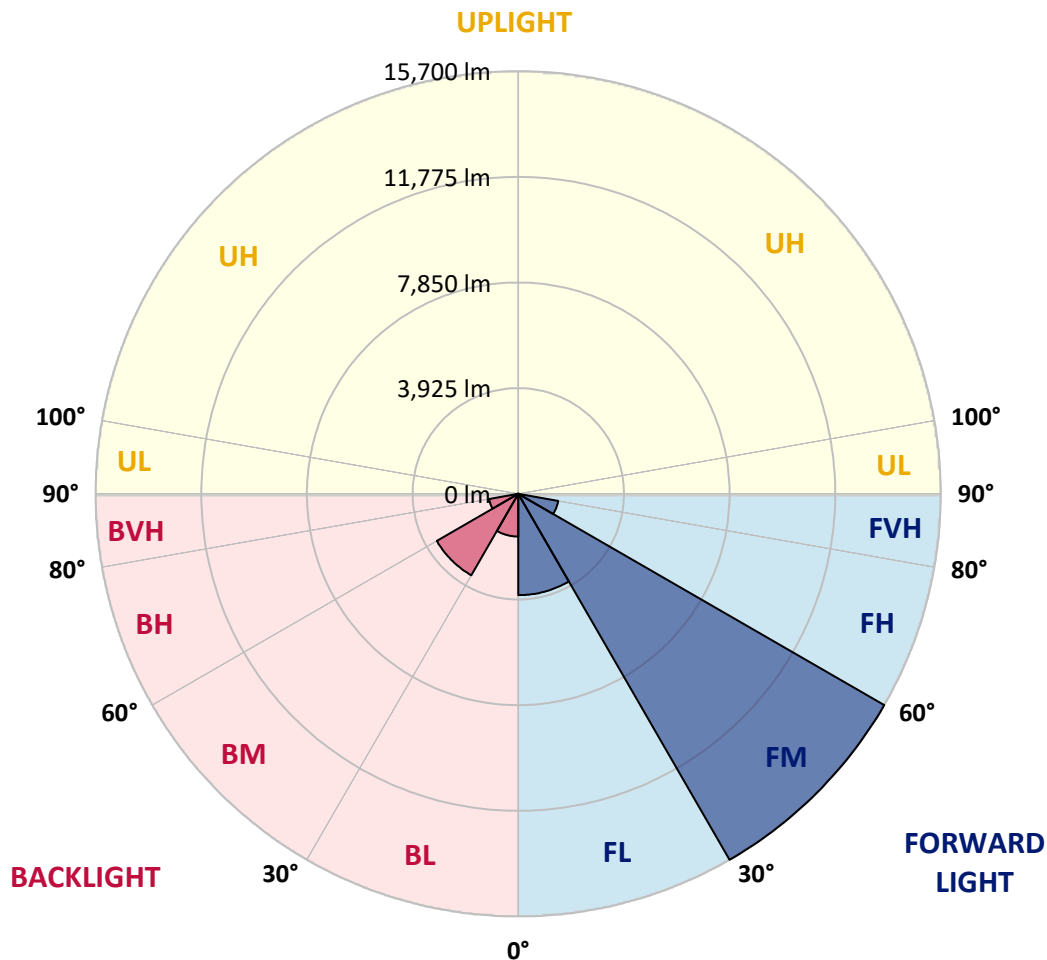
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3764.2 | 13.8 | | | |
| FM (30°-60°) | 15699.8 | 57.6 | | | |
| FH (60°-80°) | 1505.2 | 5.5 | | | G1/1800 |
| FVH (80°-90°) | 52.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1588.2 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 3493.8 | 12.8 | B3/5000 | | |
| BH (60°-80°) | 1100.7 | 4.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 65.0 | 0.2 | | | G1/100 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 |
| 2.5° | 4882.7 | 4852.3 | 4761.2 | 4730.9 | 4622.8 | 4427.2 | 4359.7 | 4160.5 | 4076.2 | 3998.6 | 3907.5 |
| 5° | 6175.1 | 6033.3 | 6023.2 | 5851.1 | 5601.4 | 5456.3 | 5024.4 | 4734.3 | 4467.6 | 4332.7 | 4083.0 |
| 7.5° | 6998.5 | 7001.8 | 7001.8 | 6860.1 | 6661.0 | 6293.2 | 5905.2 | 5382.1 | 4980.6 | 4781.5 | 4356.3 |
| 10° | 7781.3 | 7713.8 | 7676.7 | 7663.1 | 7528.2 | 7170.5 | 6755.5 | 6107.6 | 5557.6 | 5324.7 | 4562.1 |
| 12.5° | 8334.6 | 8277.3 | 8361.7 | 8317.8 | 8219.9 | 7987.1 | 7595.6 | 6856.7 | 6168.3 | 5854.5 | 4892.8 |
| 15° | 8597.9 | 8638.4 | 8705.9 | 8827.3 | 8783.5 | 8695.7 | 8263.8 | 7626.0 | 6826.4 | 6472.0 | 5186.4 |
| 17.5° | 9002.8 | 8891.4 | 8972.4 | 9124.3 | 9245.7 | 9205.3 | 8958.9 | 8182.8 | 7477.6 | 7042.3 | 5581.2 |
| 20° | 9286.2 | 9222.1 | 9262.6 | 9438.0 | 9529.2 | 9758.6 | 9630.4 | 8911.7 | 8101.9 | 7642.9 | 6046.9 |
| 22.5° | 10096.1 | 10001.6 | 9870.0 | 9897.0 | 9930.7 | 10092.7 | 10123.1 | 9711.4 | 8827.3 | 8341.4 | 6488.9 |
| 25° | 11094.9 | 11007.2 | 10851.9 | 10693.4 | 10595.5 | 10565.1 | 10669.7 | 10339.0 | 9522.5 | 9019.7 | 6964.7 |
| 27.5° | 12194.9 | 12046.5 | 11948.6 | 11621.3 | 11358.1 | 11317.6 | 11267.0 | 11088.1 | 10345.8 | 9802.5 | 7501.2 |
| 30° | 13264.6 | 13146.5 | 13014.9 | 12491.9 | 12218.6 | 12174.7 | 11925.0 | 11975.6 | 11240.0 | 10636.0 | 8108.6 |
| 32.5° | 14074.4 | 14084.6 | 13784.2 | 13389.5 | 13133.0 | 12900.2 | 12809.1 | 12954.2 | 12387.3 | 11901.4 | 8786.8 |
| 35° | 14729.1 | 14759.5 | 14472.7 | 14114.9 | 13838.3 | 14000.2 | 13959.7 | 14027.2 | 13757.2 | 13163.4 | 9576.4 |
| 37.5° | 15366.8 | 15214.9 | 14907.9 | 14735.8 | 14590.7 | 14857.3 | 15201.5 | 15258.9 | 15309.5 | 14610.9 | 10494.2 |
| 40° | 15471.5 | 15484.9 | 15306.1 | 15427.5 | 15245.3 | 15646.9 | 16446.6 | 16372.4 | 16578.2 | 15967.5 | 11489.7 |
| 42.5° | 15323.0 | 15353.3 | 15424.2 | 15596.3 | 16035.0 | 16517.5 | 17705.3 | 17401.5 | 17651.2 | 17108.0 | 12458.2 |
| 45° | 15080.0 | 14955.1 | 15042.9 | 15697.5 | 16456.8 | 17529.8 | 18855.9 | 18619.7 | 18538.7 | 18083.2 | 13612.1 |
| 47.5° | 13919.2 | 14047.5 | 14320.8 | 15127.2 | 16267.8 | 17705.3 | 19672.5 | 19618.5 | 19861.5 | 19540.9 | 14661.6 |
| 50° | 12309.6 | 12259.0 | 12785.5 | 13693.2 | 15164.4 | 17361.1 | 19628.6 | 20117.9 | 20641.0 | 20195.5 | 15130.6 |
| 52.5° | 9218.7 | 9488.7 | 9940.9 | 11067.9 | 13166.8 | 15484.9 | 18670.3 | 19486.9 | 19912.1 | 19817.6 | 14752.7 |
| 55° | 5827.5 | 5908.5 | 6181.8 | 7521.4 | 9411.1 | 12427.8 | 16004.6 | 17897.6 | 18656.9 | 19011.2 | 14405.2 |
| 57.5° | 2831.1 | 2679.3 | 3013.3 | 4089.7 | 5436.1 | 8358.3 | 12343.4 | 15589.5 | 17239.6 | 17880.7 | 13649.3 |
| 60° | 1478.0 | 1535.3 | 1666.9 | 2051.6 | 2810.8 | 4339.4 | 7693.5 | 10389.6 | 12910.3 | 13895.6 | 10345.8 |
| 62.5° | 1224.9 | 1245.1 | 1332.9 | 1525.2 | 1869.4 | 2497.0 | 3927.8 | 5064.9 | 6583.4 | 7470.8 | 5884.9 |
| 65° | 1039.3 | 1049.5 | 1143.9 | 1272.1 | 1491.5 | 1758.1 | 2021.2 | 2115.7 | 2561.1 | 2628.6 | 2092.1 |
| 67.5° | 867.2 | 877.4 | 978.6 | 1100.0 | 1241.8 | 1312.6 | 1380.1 | 1373.4 | 1424.0 | 1403.8 | 1400.4 |
| 70° | 668.1 | 678.2 | 782.8 | 911.1 | 982.0 | 941.5 | 1150.6 | 1197.9 | 1218.1 | 1235.0 | 1262.0 |
| 72.5° | 482.6 | 502.8 | 583.7 | 674.9 | 637.8 | 732.3 | 948.2 | 1019.1 | 1046.1 | 1056.2 | 1089.9 |
| 75° | 350.9 | 357.7 | 378.0 | 350.9 | 404.9 | 509.5 | 668.1 | 755.8 | 789.6 | 799.8 | 850.3 |
| 77.5° | 155.2 | 158.6 | 162.0 | 202.5 | 259.8 | 317.2 | 398.2 | 469.0 | 516.3 | 529.8 | 543.2 |
| 80° | 81.0 | 84.3 | 104.6 | 138.4 | 185.6 | 232.9 | 290.2 | 330.7 | 361.0 | 364.4 | 378.0 |
| 82.5° | 50.6 | 54.0 | 74.2 | 97.9 | 131.6 | 172.1 | 212.6 | 246.3 | 270.0 | 273.3 | 276.7 |
| 85° | 23.6 | 30.4 | 43.8 | 60.8 | 87.7 | 111.3 | 114.7 | 97.9 | 104.6 | 108.0 | 101.2 |
| 87.5° | 6.7 | 10.1 | 13.5 | 10.1 | 13.5 | 13.5 | 16.8 | 20.3 | 20.3 | 20.3 | 23.6 |
| 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: P650537

CATALOG NUMBER: GLAN-SA7B-835-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 |
| 2.5° | 3856.9 | 3826.5 | 3708.4 | 3664.5 | 3549.8 | 3570.1 | 3509.3 | 3506.0 | 3492.5 | 3489.0 | 3485.7 |
| 5° | 3951.4 | 3856.9 | 3715.2 | 3607.2 | 3543.1 | 3536.3 | 3492.5 | 3492.5 | 3506.0 | 3516.1 | 3492.5 |
| 7.5° | 4106.6 | 3998.6 | 3759.0 | 3657.8 | 3600.5 | 3590.3 | 3559.9 | 3536.3 | 3566.7 | 3556.5 | 3529.6 |
| 10° | 4285.4 | 4096.5 | 3843.4 | 3755.7 | 3661.2 | 3637.6 | 3637.6 | 3647.7 | 3597.1 | 3613.9 | 3586.9 |
| 12.5° | 4484.6 | 4231.4 | 3951.4 | 3850.2 | 3738.8 | 3725.3 | 3718.5 | 3644.3 | 3671.3 | 3657.8 | 3590.3 |
| 15° | 4737.6 | 4386.7 | 4089.7 | 3917.7 | 3823.2 | 3762.4 | 3674.7 | 3661.2 | 3644.3 | 3610.6 | 3580.2 |
| 17.5° | 5010.9 | 4555.4 | 4153.8 | 3937.9 | 3796.1 | 3752.3 | 3684.8 | 3613.9 | 3563.4 | 3570.1 | 3546.4 |
| 20° | 5243.8 | 4710.6 | 4177.5 | 3958.1 | 3775.9 | 3691.5 | 3586.9 | 3543.1 | 3489.0 | 3485.7 | 3482.3 |
| 22.5° | 5520.5 | 4919.8 | 4211.2 | 3904.1 | 3715.2 | 3627.4 | 3556.5 | 3478.9 | 3441.8 | 3394.6 | 3418.2 |
| 25° | 5851.1 | 5000.8 | 4217.9 | 3873.7 | 3671.3 | 3516.1 | 3478.9 | 3394.6 | 3381.1 | 3313.7 | 3327.1 |
| 27.5° | 6090.7 | 5044.6 | 4164.0 | 3779.3 | 3570.1 | 3451.9 | 3384.5 | 3323.8 | 3300.1 | 3249.5 | 3236.0 |
| 30° | 6411.3 | 5112.1 | 4049.2 | 3661.2 | 3468.8 | 3337.2 | 3296.7 | 3283.3 | 3215.8 | 3161.8 | 3155.0 |
| 32.5° | 6775.7 | 5156.1 | 3975.0 | 3539.7 | 3364.2 | 3263.0 | 3283.3 | 3219.1 | 3134.7 | 3087.5 | 3074.1 |
| 35° | 7065.9 | 5172.9 | 3789.4 | 3401.4 | 3293.4 | 3229.2 | 3205.6 | 3192.1 | 3070.7 | 3026.8 | 2993.0 |
| 37.5° | 7508.0 | 5135.8 | 3634.2 | 3303.5 | 3215.8 | 3192.1 | 3171.9 | 3080.8 | 2942.4 | 2878.3 | 2831.1 |
| 40° | 8024.2 | 5125.7 | 3435.1 | 3165.1 | 3141.6 | 3168.5 | 3107.8 | 2966.1 | 2773.7 | 2702.8 | 2669.1 |
| 42.5° | 8520.3 | 5196.5 | 3310.2 | 3090.9 | 3060.5 | 3070.7 | 2986.3 | 2773.7 | 2679.3 | 2638.7 | 2584.8 |
| 45° | 9350.4 | 5345.0 | 3104.4 | 2976.2 | 2962.7 | 2955.9 | 2854.7 | 2632.0 | 2578.0 | 2527.4 | 2517.3 |
| 47.5° | 10099.4 | 5247.1 | 2972.8 | 2858.1 | 2871.6 | 2834.5 | 2618.5 | 2547.6 | 2486.9 | 2436.3 | 2419.4 |
| 50° | 10143.3 | 5014.3 | 2787.2 | 2767.0 | 2770.3 | 2706.2 | 2500.4 | 2453.1 | 2375.5 | 2341.8 | 2318.1 |
| 52.5° | 9913.9 | 4633.0 | 2615.1 | 2621.9 | 2632.0 | 2527.4 | 2355.3 | 2321.6 | 2257.5 | 2210.2 | 2196.7 |
| 55° | 9269.4 | 4039.1 | 2446.4 | 2473.4 | 2500.4 | 2301.3 | 2247.3 | 2163.0 | 2112.4 | 2044.9 | 2048.2 |
| 57.5° | 8166.0 | 3252.9 | 2210.2 | 2254.1 | 2311.4 | 2092.1 | 2051.6 | 1947.0 | 1872.8 | 1818.8 | 1812.0 |
| 60° | 5473.2 | 2314.8 | 1855.9 | 1872.8 | 2001.0 | 1913.3 | 1909.9 | 1805.3 | 1704.0 | 1656.8 | 1629.8 |
| 62.5° | 3229.2 | 1768.2 | 1602.8 | 1586.0 | 1582.6 | 1633.2 | 1717.5 | 1680.4 | 1548.9 | 1457.7 | 1484.7 |
| 65° | 1690.6 | 1528.6 | 1491.5 | 1434.1 | 1400.4 | 1386.8 | 1451.0 | 1467.8 | 1380.1 | 1282.2 | 1275.5 |
| 67.5° | 1420.6 | 1420.6 | 1390.2 | 1370.0 | 1322.7 | 1265.4 | 1224.9 | 1170.9 | 1157.4 | 1130.4 | 1096.7 |
| 70° | 1292.3 | 1326.1 | 1316.0 | 1268.8 | 1228.3 | 1164.2 | 1059.6 | 971.8 | 887.5 | 857.1 | 877.4 |
| 72.5° | 1127.1 | 1160.8 | 1160.8 | 1137.2 | 1083.2 | 985.3 | 884.1 | 782.8 | 712.0 | 658.0 | 651.2 |
| 75° | 867.2 | 884.1 | 924.6 | 897.6 | 826.7 | 766.0 | 661.4 | 556.8 | 489.3 | 438.6 | 428.5 |
| 77.5° | 553.4 | 580.4 | 580.4 | 577.0 | 526.4 | 469.0 | 401.5 | 327.3 | 276.7 | 239.6 | 229.4 |
| 80° | 367.8 | 384.7 | 398.2 | 384.7 | 350.9 | 307.1 | 256.4 | 205.9 | 168.7 | 138.4 | 131.6 |
| 82.5° | 270.0 | 290.2 | 300.3 | 286.8 | 253.1 | 219.3 | 182.2 | 145.1 | 108.0 | 84.3 | 77.6 |
| 85° | 104.6 | 108.0 | 121.4 | 145.1 | 141.7 | 138.4 | 111.3 | 81.0 | 60.8 | 43.8 | 40.5 |
| 87.5° | 27.0 | 23.6 | 27.0 | 27.0 | 23.6 | 20.3 | 20.3 | 20.3 | 20.3 | 10.1 | 13.5 |
| 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)