

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: P654523

Luminaire Tested: **GLAN-SA8B-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8B-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34868.7 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

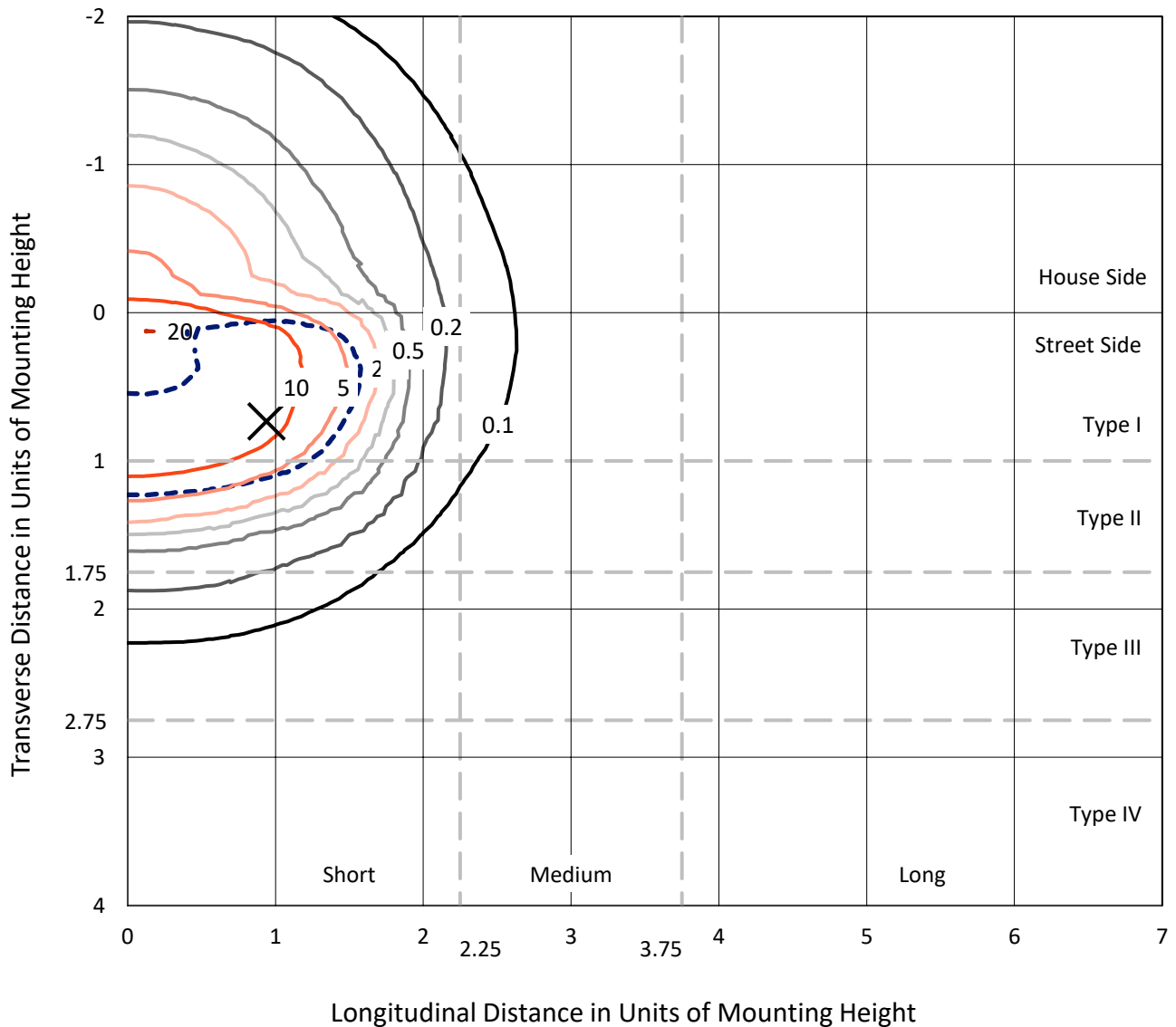
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

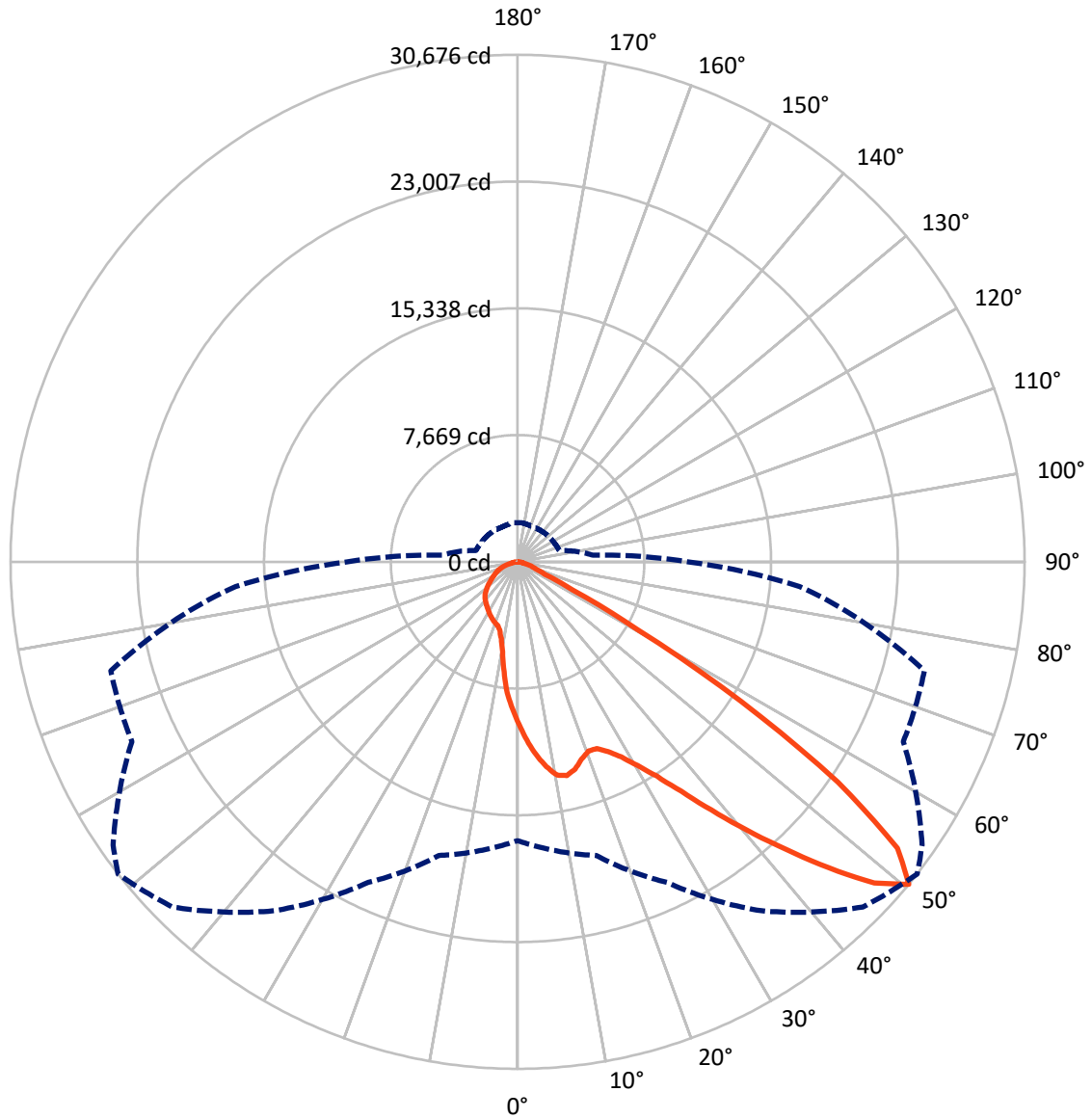
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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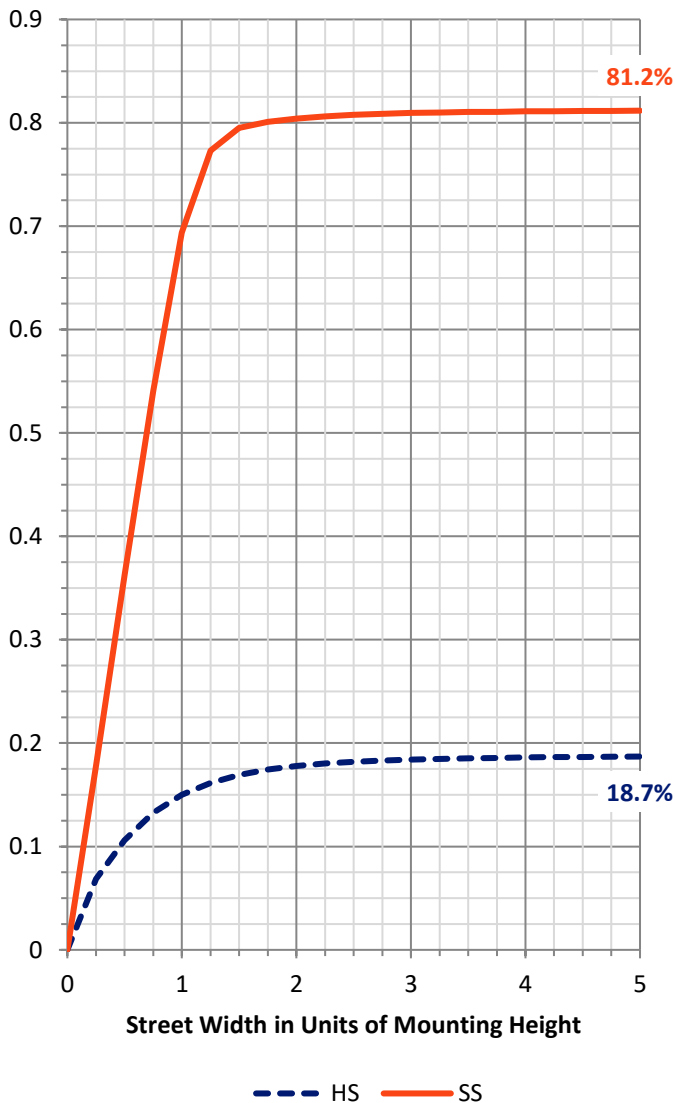
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6554.5 | 0.0 | 6554.5 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 28314.2 | 0.0 | 28314.2 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 34868.7 | 0.0 | 34868.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 905.9 | 2.6 |
| 10°-20° | 2428.1 | 7.0 |
| 20°-30° | 4090.1 | 11.7 |
| 30°-40° | 6863.5 | 19.7 |
| 40°-50° | 10499.4 | 30.1 |
| 50°-60° | 7654.9 | 22.0 |
| 60°-70° | 1703.6 | 4.9 |
| 70°-80° | 614.5 | 1.8 |
| 80°-90° | 108.8 | 0.3 |
| 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° | 34868.7 | 100.0 |
| 0°-180° | 34868.7 | 100.0 |

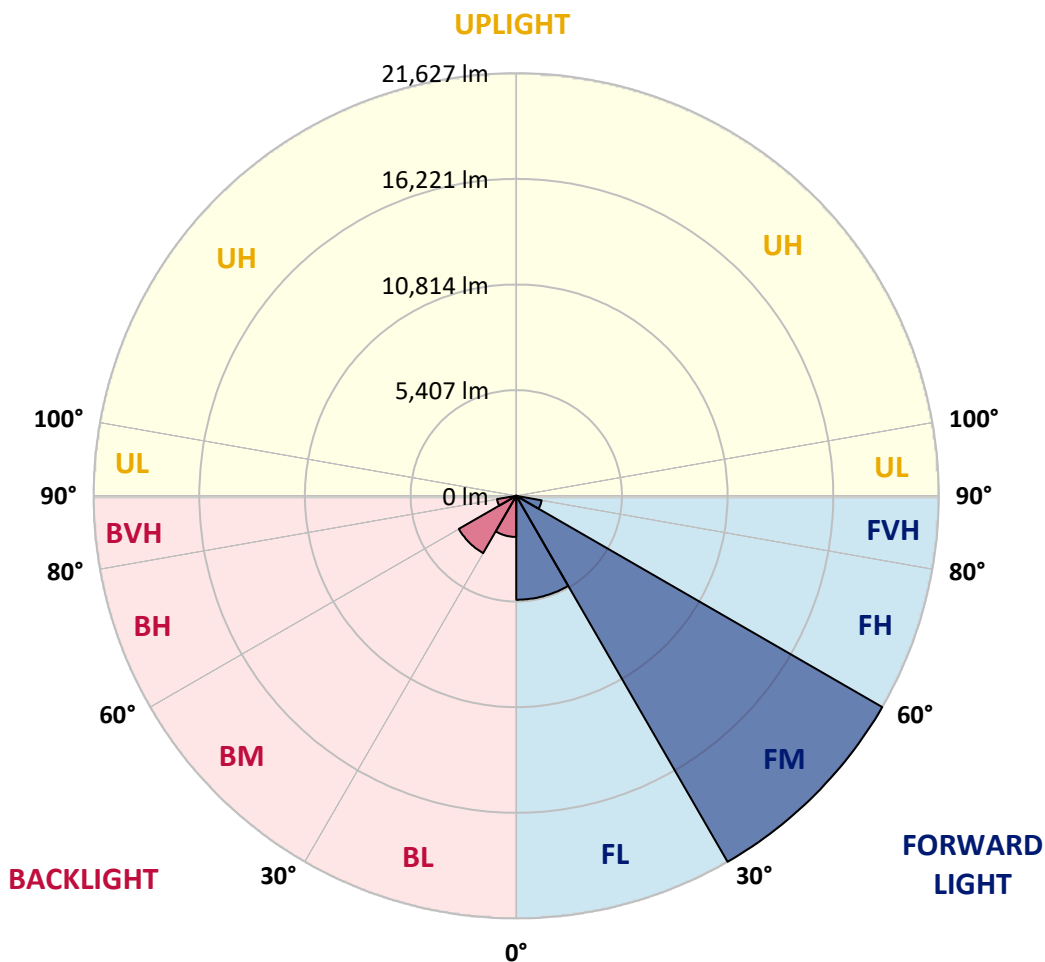


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5318.7 | 15.3 | | | |
| FM (30°-60°) | 21627.3 | 62.0 | | | |
| FH (60°-80°) | 1319.5 | 3.8 | | | G1/1800 |
| FVH (80°-90°) | 48.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2105.4 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 3390.4 | 9.7 | B3/5000 | | |
| BH (60°-80°) | 998.6 | 2.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 60.0 | 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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9828.9 | 9828.9 | 9828.9 | 9828.9 | 9828.9 | 9828.9 | 9828.9 | 9828.9 | 9828.9 | 9828.9 | 9828.9 |
| 2.5° | 11572.8 | 11350.1 | 11375.3 | 11215.7 | 11043.3 | 10992.9 | 10816.4 | 10648.3 | 10522.3 | 10253.3 | 10005.4 |
| 5° | 12648.6 | 12581.4 | 12480.5 | 12354.5 | 12224.2 | 11904.8 | 11724.1 | 11514.0 | 11051.7 | 10635.7 | 10224.0 |
| 7.5° | 12804.1 | 12791.4 | 12846.1 | 12846.1 | 12892.3 | 12770.4 | 12514.1 | 12367.0 | 11875.3 | 11198.8 | 10434.0 |
| 10° | 11711.5 | 11749.3 | 12014.0 | 12358.7 | 12837.7 | 13169.6 | 13127.6 | 13089.8 | 12551.9 | 11627.4 | 10682.0 |
| 12.5° | 10841.7 | 10757.6 | 10913.1 | 11207.3 | 11925.8 | 12728.5 | 13270.5 | 13274.7 | 13136.0 | 12312.4 | 10862.6 |
| 15° | 10350.0 | 10408.8 | 10450.9 | 10589.5 | 11131.6 | 12060.3 | 13014.1 | 13295.7 | 13905.0 | 12795.6 | 11148.4 |
| 17.5° | 10665.1 | 10467.7 | 10459.3 | 10492.8 | 10770.2 | 11467.8 | 12539.3 | 13022.5 | 14325.3 | 13417.6 | 11501.3 |
| 20° | 11077.0 | 11072.8 | 10955.1 | 10913.1 | 10908.9 | 11530.8 | 12228.4 | 12883.9 | 14548.0 | 14224.4 | 11858.6 |
| 22.5° | 11799.7 | 11799.7 | 11606.5 | 11514.0 | 11316.5 | 11825.0 | 12270.4 | 12715.8 | 14917.7 | 14779.1 | 12030.8 |
| 25° | 13009.9 | 12812.5 | 12480.5 | 12253.5 | 12140.1 | 12320.8 | 12715.8 | 13115.1 | 15241.4 | 15367.4 | 12388.0 |
| 27.5° | 14127.7 | 13816.8 | 13652.9 | 13262.1 | 13110.9 | 13005.7 | 13367.1 | 13770.5 | 15619.6 | 16283.4 | 12581.4 |
| 30° | 15396.8 | 15342.2 | 15048.0 | 14543.7 | 14169.8 | 13976.5 | 14308.4 | 14707.7 | 16312.9 | 17220.6 | 13026.8 |
| 32.5° | 17666.0 | 17170.1 | 16770.9 | 16153.2 | 15543.9 | 15132.0 | 15459.9 | 15724.6 | 17464.3 | 18199.7 | 13514.2 |
| 35° | 20115.9 | 19956.2 | 19267.0 | 18153.4 | 17220.6 | 16850.8 | 17044.0 | 17241.6 | 18804.8 | 19695.6 | 14333.7 |
| 37.5° | 22523.7 | 22305.2 | 21737.9 | 20800.8 | 19666.2 | 18914.0 | 19052.7 | 19283.8 | 20309.1 | 21712.7 | 15333.8 |
| 40° | 24255.0 | 23986.1 | 23700.3 | 23561.6 | 22435.4 | 21405.9 | 21326.1 | 21384.9 | 22343.0 | 23603.7 | 16443.1 |
| 42.5° | 24381.1 | 24713.0 | 24801.3 | 25360.2 | 25095.4 | 24250.8 | 23759.2 | 23771.8 | 24284.5 | 25473.6 | 17565.1 |
| 45° | 24116.3 | 23809.6 | 24460.9 | 25986.3 | 26860.4 | 27255.4 | 26427.5 | 26322.5 | 25486.3 | 26557.8 | 18124.1 |
| 47.5° | 21338.7 | 21422.7 | 22523.7 | 24935.7 | 27461.3 | 29226.2 | 29032.9 | 28684.1 | 26129.2 | 26520.0 | 18035.7 |
| 50° | 16867.6 | 17376.1 | 18397.1 | 21401.7 | 25780.4 | 29537.2 | 30676.0 | 29869.1 | 25746.8 | 25477.8 | 17136.5 |
| 52.5° | 11232.5 | 11442.6 | 12114.9 | 15993.5 | 20729.4 | 26402.4 | 28785.0 | 28969.8 | 25393.8 | 24112.1 | 15997.8 |
| 55° | 5000.6 | 4983.8 | 5929.3 | 8353.9 | 13005.7 | 20090.6 | 23519.7 | 24645.8 | 24036.5 | 22721.2 | 14888.3 |
| 57.5° | 2117.9 | 2189.4 | 2575.9 | 3609.7 | 6395.7 | 12123.3 | 15934.7 | 16922.2 | 18485.4 | 18657.7 | 11421.5 |
| 60° | 1433.0 | 1441.4 | 1546.4 | 1807.0 | 2676.8 | 5694.0 | 8358.1 | 9543.2 | 10660.9 | 10585.3 | 6059.6 |
| 62.5° | 1126.2 | 1155.6 | 1235.4 | 1340.5 | 1588.4 | 2584.3 | 3739.9 | 4399.7 | 4471.1 | 3761.0 | 2298.6 |
| 65° | 962.3 | 966.5 | 1046.4 | 1134.6 | 1243.8 | 1504.4 | 1802.8 | 1836.3 | 1857.3 | 1790.2 | 1689.3 |
| 67.5° | 794.2 | 802.7 | 865.6 | 966.5 | 1067.3 | 1151.4 | 1235.4 | 1277.5 | 1374.1 | 1563.3 | 1538.0 |
| 70° | 630.3 | 642.9 | 697.5 | 781.6 | 874.1 | 924.5 | 1029.6 | 1067.3 | 1155.6 | 1302.7 | 1361.5 |
| 72.5° | 479.0 | 483.2 | 529.5 | 588.3 | 672.4 | 722.8 | 811.1 | 853.0 | 911.9 | 1038.0 | 1092.5 |
| 75° | 344.6 | 357.2 | 390.8 | 420.2 | 432.9 | 466.4 | 550.5 | 596.7 | 680.8 | 735.4 | 739.6 |
| 77.5° | 180.7 | 189.1 | 197.5 | 197.5 | 239.5 | 302.6 | 357.2 | 382.4 | 441.2 | 483.2 | 462.2 |
| 80° | 71.4 | 75.6 | 96.6 | 130.3 | 168.1 | 218.5 | 256.3 | 269.0 | 319.3 | 344.6 | 357.2 |
| 82.5° | 42.0 | 46.3 | 63.0 | 92.4 | 121.9 | 155.5 | 184.9 | 197.5 | 231.1 | 260.5 | 269.0 |
| 85° | 21.0 | 25.2 | 37.8 | 58.9 | 79.8 | 96.6 | 92.4 | 88.2 | 88.2 | 84.0 | 88.2 |
| 87.5° | 8.4 | 8.4 | 12.6 | 12.6 | 12.6 | 16.8 | 21.0 | 21.0 | 21.0 | 25.2 | 25.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GLAN-SA8B-840-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9828.9 | 9828.9 | 9828.9 | 9828.9 | 9828.9 | 9828.9 | 9828.9 | 9828.9 | 9828.9 | 9828.9 | 9828.9 |
| 2.5° | 9841.6 | 9673.4 | 9517.9 | 9232.2 | 8921.2 | 8833.0 | 8471.6 | 8341.4 | 8248.9 | 8139.6 | 8106.0 |
| 5° | 9891.9 | 9669.2 | 9169.2 | 8593.5 | 8135.4 | 7547.1 | 7160.5 | 6744.5 | 6442.0 | 6366.3 | 6345.3 |
| 7.5° | 9997.0 | 9614.6 | 8753.1 | 7883.3 | 6946.2 | 6147.8 | 5538.5 | 5210.7 | 4920.8 | 4904.0 | 4874.5 |
| 10° | 10114.6 | 9450.7 | 8299.3 | 6933.6 | 5736.0 | 4996.4 | 4630.8 | 4487.9 | 4416.5 | 4399.7 | 4391.3 |
| 12.5° | 10211.3 | 9417.1 | 7790.9 | 6009.1 | 4878.7 | 4433.3 | 4324.1 | 4311.5 | 4340.8 | 4349.2 | 4366.1 |
| 15° | 10253.3 | 9282.6 | 7177.3 | 5181.3 | 4345.0 | 4181.2 | 4227.4 | 4277.8 | 4298.9 | 4353.4 | 4311.5 |
| 17.5° | 10333.2 | 9110.3 | 6421.0 | 4525.8 | 4046.7 | 4076.2 | 4156.0 | 4214.8 | 4248.4 | 4286.2 | 4231.6 |
| 20° | 10375.2 | 8954.9 | 5710.7 | 4134.9 | 3941.7 | 3996.3 | 4105.5 | 4151.8 | 4193.8 | 4210.6 | 4147.6 |
| 22.5° | 10337.4 | 8635.5 | 5084.6 | 3819.8 | 3840.8 | 3912.2 | 4008.9 | 4059.3 | 4034.1 | 3966.8 | 3929.1 |
| 25° | 10236.5 | 8185.9 | 4433.3 | 3618.1 | 3698.0 | 3824.0 | 3899.6 | 3861.8 | 3815.6 | 3777.8 | 3765.2 |
| 27.5° | 10232.3 | 7635.4 | 3962.6 | 3433.2 | 3576.1 | 3748.3 | 3723.1 | 3689.6 | 3710.5 | 3681.1 | 3647.5 |
| 30° | 10253.3 | 7101.7 | 3576.1 | 3328.1 | 3487.8 | 3571.9 | 3601.2 | 3567.7 | 3592.8 | 3538.3 | 3555.1 |
| 32.5° | 10144.1 | 6580.7 | 3324.0 | 3206.2 | 3382.8 | 3378.5 | 3475.2 | 3500.4 | 3441.6 | 3328.1 | 3344.9 |
| 35° | 10190.3 | 6160.4 | 3109.6 | 3151.6 | 3265.1 | 3265.1 | 3340.7 | 3311.4 | 3155.9 | 3088.6 | 3105.4 |
| 37.5° | 10509.6 | 5748.6 | 3004.6 | 3076.0 | 3151.6 | 3185.3 | 3160.1 | 3034.0 | 2996.1 | 2996.1 | 3004.6 |
| 40° | 10812.2 | 5395.6 | 2941.6 | 3059.2 | 3046.6 | 3067.6 | 2882.7 | 2895.3 | 2895.3 | 2899.5 | 2878.5 |
| 42.5° | 11081.2 | 5156.1 | 2891.1 | 2958.3 | 2979.3 | 2870.1 | 2756.6 | 2744.0 | 2773.4 | 2769.2 | 2752.4 |
| 45° | 11177.8 | 4958.5 | 2819.7 | 2844.9 | 2861.7 | 2681.0 | 2626.4 | 2601.1 | 2634.8 | 2647.4 | 2664.2 |
| 47.5° | 10808.0 | 4794.7 | 2739.8 | 2689.4 | 2655.8 | 2538.1 | 2466.7 | 2420.5 | 2462.4 | 2533.9 | 2550.8 |
| 50° | 10333.2 | 4580.4 | 2613.7 | 2517.1 | 2445.7 | 2395.3 | 2344.8 | 2298.6 | 2328.0 | 2378.4 | 2365.8 |
| 52.5° | 9631.4 | 4244.2 | 2454.0 | 2353.2 | 2231.3 | 2244.0 | 2197.7 | 2172.6 | 2189.4 | 2189.4 | 2176.8 |
| 55° | 8631.3 | 3487.8 | 2185.2 | 2113.7 | 2012.8 | 2046.5 | 2054.9 | 2021.3 | 1987.6 | 2017.1 | 1991.8 |
| 57.5° | 5891.5 | 2462.4 | 1949.8 | 1949.8 | 1848.9 | 1895.2 | 1891.0 | 1811.2 | 1731.3 | 1739.7 | 1722.9 |
| 60° | 3408.0 | 1962.4 | 1798.6 | 1781.7 | 1676.7 | 1714.5 | 1722.9 | 1668.3 | 1546.4 | 1554.8 | 1538.0 |
| 62.5° | 1937.2 | 1676.7 | 1571.6 | 1546.4 | 1525.4 | 1559.0 | 1559.0 | 1487.6 | 1382.5 | 1390.9 | 1374.1 |
| 65° | 1647.3 | 1554.8 | 1403.5 | 1399.3 | 1390.9 | 1399.3 | 1365.7 | 1290.1 | 1197.6 | 1159.8 | 1164.0 |
| 67.5° | 1496.0 | 1437.2 | 1290.1 | 1252.2 | 1227.0 | 1222.8 | 1159.8 | 1088.3 | 1046.4 | 1012.7 | 1008.5 |
| 70° | 1311.1 | 1264.9 | 1155.6 | 1105.2 | 1079.9 | 1021.1 | 958.1 | 911.9 | 853.0 | 836.2 | 853.0 |
| 72.5° | 1038.0 | 1033.8 | 991.7 | 937.1 | 882.5 | 836.2 | 781.6 | 718.6 | 664.0 | 651.4 | 621.9 |
| 75° | 718.6 | 727.0 | 735.4 | 727.0 | 680.8 | 621.9 | 558.9 | 508.5 | 441.2 | 403.4 | 395.0 |
| 77.5° | 470.6 | 483.2 | 495.9 | 479.0 | 449.6 | 395.0 | 353.0 | 290.0 | 239.5 | 210.1 | 205.9 |
| 80° | 344.6 | 361.4 | 369.8 | 357.2 | 323.5 | 281.6 | 235.3 | 184.9 | 147.1 | 121.9 | 121.9 |
| 82.5° | 264.7 | 281.6 | 290.0 | 269.0 | 235.3 | 201.7 | 168.1 | 130.3 | 100.8 | 79.8 | 75.6 |
| 85° | 92.4 | 88.2 | 105.0 | 109.2 | 130.3 | 121.9 | 100.8 | 75.6 | 58.9 | 42.0 | 37.8 |
| 87.5° | 25.2 | 25.2 | 29.4 | 29.4 | 25.2 | 21.0 | 21.0 | 21.0 | 16.8 | 12.6 | 12.6 |
| 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)