

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: P654548

Luminaire Tested: **GLAN-SA8B-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8B-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22794.5 lumens
Efficiency: N/A
Efficacy: 70.1 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

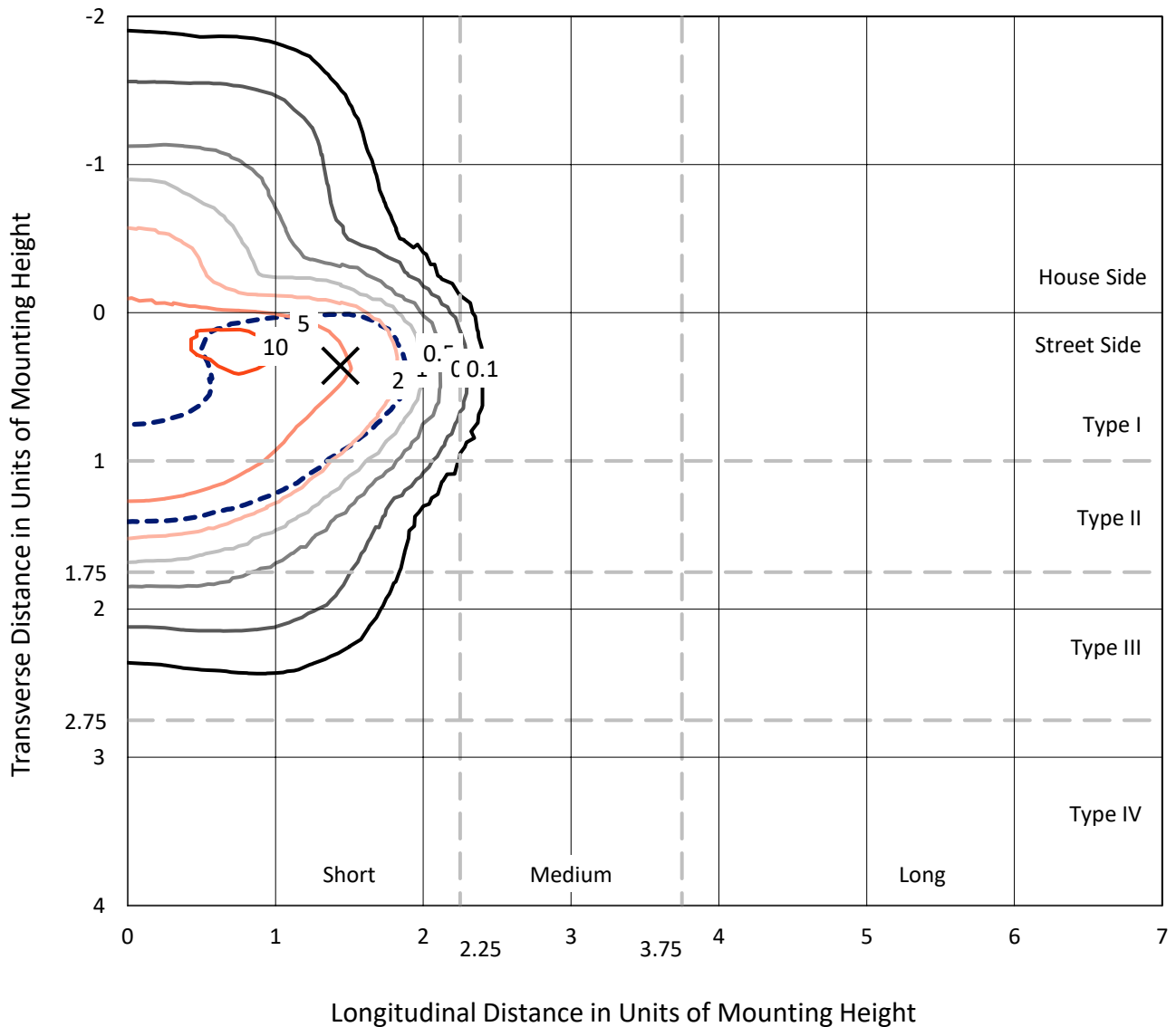
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

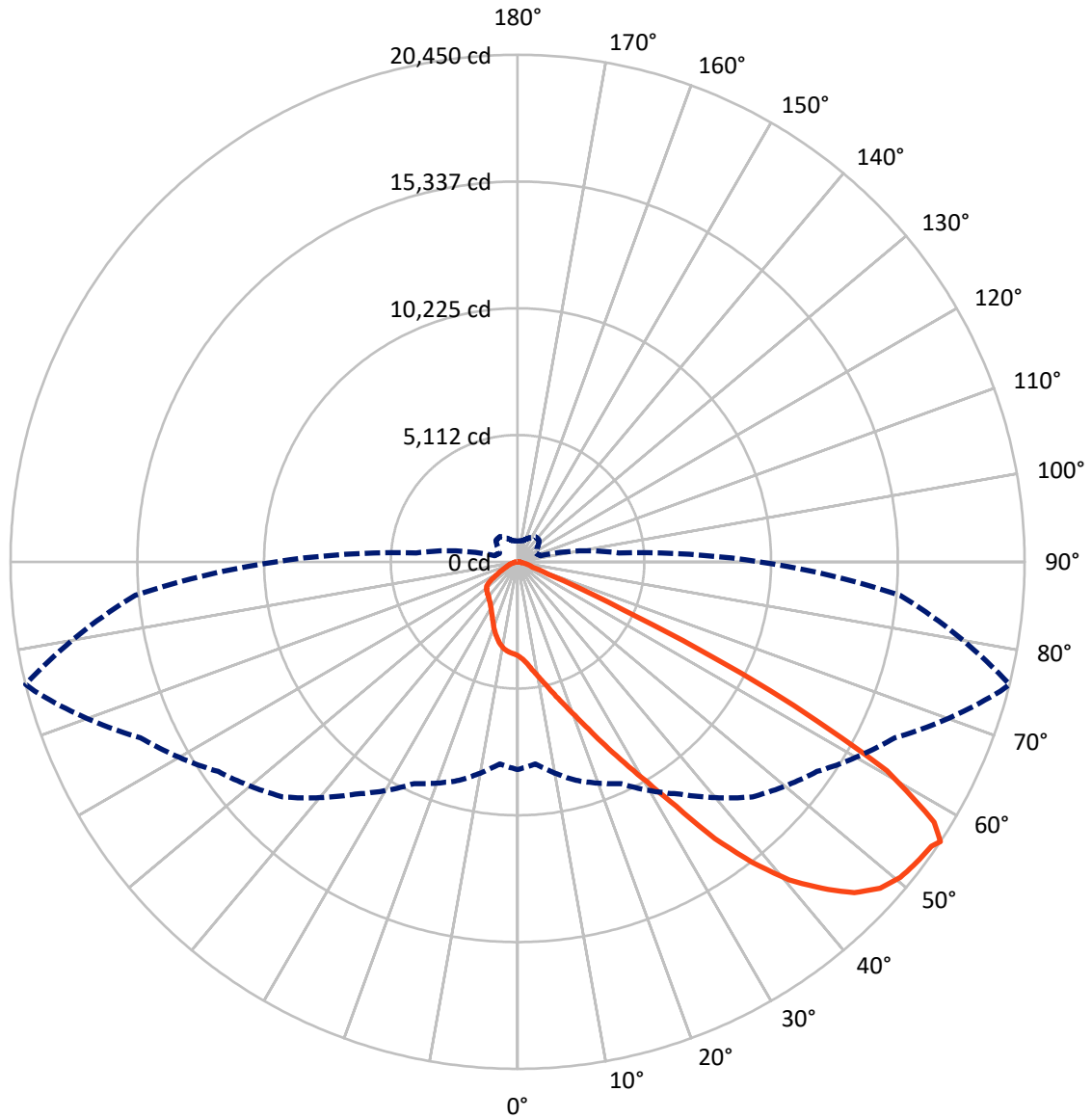
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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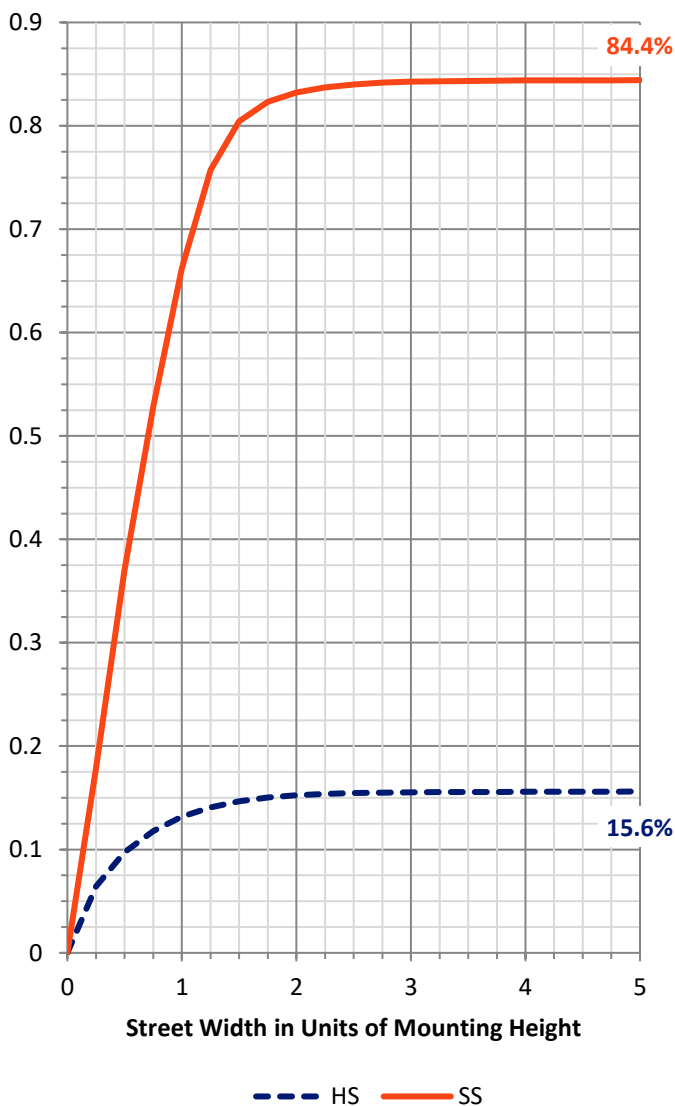
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3580.9 | 0.0 | 3580.9 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 19213.6 | 0.0 | 19213.6 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 22794.5 | 0.0 | 22794.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 382.2 | 1.7 |
| 10°-20° | 1227.9 | 5.4 |
| 20°-30° | 2226.5 | 9.8 |
| 30°-40° | 3839.7 | 16.8 |
| 40°-50° | 6237.8 | 27.4 |
| 50°-60° | 6574.8 | 28.8 |
| 60°-70° | 2008.9 | 8.8 |
| 70°-80° | 257.5 | 1.1 |
| 80°-90° | 39.1 | 0.2 |
| 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° | 22794.5 | 100.0 |
| 0°-180° | 22794.5 | 100.0 |

Coefficient of Utilization

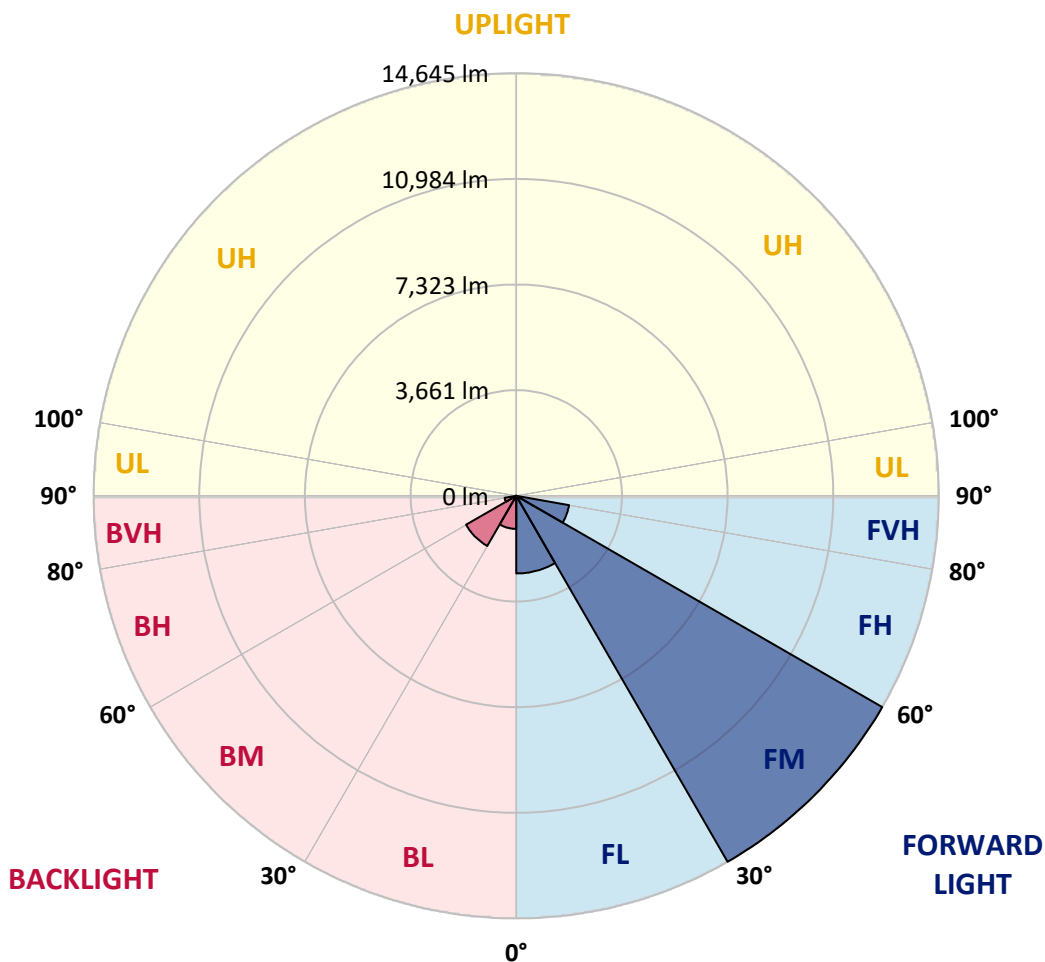


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2691.1 | 11.8 | | | |
| FM (30°-60°) | 14645.4 | 64.2 | | | |
| FH (60°-80°) | 1857.9 | 8.2 | | | G2/5000 |
| FVH (80°-90°) | 19.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1145.5 | 5.0 | B3/2500 | | |
| BM (30°-60°) | 2006.9 | 8.8 | B2/2500 | | |
| BH (60°-80°) | 408.5 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 20.0 | 0.1 | | | 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° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3794.2 | 3794.2 | 3794.2 | 3794.2 | 3794.2 | 3794.2 | 3794.2 | 3794.2 | 3794.2 | 3794.2 | 3794.2 |
| 2.5° | 4369.8 | 4269.0 | 4273.2 | 4264.8 | 4252.2 | 4205.9 | 4067.2 | 4046.3 | 3953.9 | 3928.6 | 3844.6 |
| 5° | 4895.0 | 4806.8 | 4857.2 | 4781.6 | 4710.2 | 4668.1 | 4441.2 | 4336.2 | 4189.1 | 4134.5 | 4016.9 |
| 7.5° | 5222.8 | 5180.7 | 5163.9 | 5168.1 | 5100.9 | 4995.9 | 4895.0 | 4663.9 | 4466.5 | 4424.4 | 4176.5 |
| 10° | 5382.4 | 5357.3 | 5382.4 | 5369.8 | 5399.2 | 5411.8 | 5235.4 | 5096.7 | 4806.8 | 4735.3 | 4348.8 |
| 12.5° | 5420.2 | 5470.7 | 5491.6 | 5546.3 | 5617.7 | 5739.6 | 5727.0 | 5537.9 | 5151.4 | 5105.1 | 4613.5 |
| 15° | 5512.7 | 5554.7 | 5533.7 | 5621.9 | 5756.4 | 5962.3 | 6071.5 | 6042.1 | 5626.1 | 5542.1 | 4920.3 |
| 17.5° | 5596.7 | 5521.1 | 5592.5 | 5769.0 | 5903.5 | 6218.6 | 6483.3 | 6605.1 | 6142.9 | 6046.3 | 5201.8 |
| 20° | 5710.1 | 5689.2 | 5676.6 | 5764.8 | 6004.3 | 6424.5 | 6949.7 | 7172.4 | 6722.8 | 6621.9 | 5605.1 |
| 22.5° | 6054.7 | 6058.9 | 6050.5 | 5920.2 | 6092.5 | 6567.3 | 7357.2 | 7907.7 | 7416.1 | 7332.0 | 6063.1 |
| 25° | 6508.5 | 6453.8 | 6411.9 | 6306.8 | 6285.8 | 6697.6 | 7769.0 | 8806.9 | 8248.0 | 8189.2 | 6559.0 |
| 27.5° | 6987.5 | 6987.5 | 6861.5 | 6764.8 | 6630.4 | 7021.1 | 8147.2 | 9680.8 | 9252.3 | 9172.4 | 6991.7 |
| 30° | 7508.5 | 7537.9 | 7521.1 | 7315.3 | 7231.2 | 7374.1 | 8533.7 | 10798.4 | 10403.5 | 10302.7 | 7706.0 |
| 32.5° | 8277.5 | 8214.4 | 8285.9 | 8113.5 | 7865.6 | 7991.7 | 9143.0 | 11798.5 | 11899.3 | 11756.5 | 8643.0 |
| 35° | 9294.2 | 9256.5 | 9210.2 | 8928.7 | 8634.5 | 8735.4 | 10004.4 | 13029.6 | 13777.5 | 13706.1 | 9588.4 |
| 37.5° | 10206.0 | 10185.0 | 10147.2 | 9953.9 | 9613.6 | 9735.4 | 10983.4 | 14311.1 | 15609.5 | 15374.2 | 10924.5 |
| 40° | 11164.0 | 11277.5 | 11155.6 | 10983.4 | 10672.5 | 10941.3 | 12134.6 | 15071.6 | 17151.5 | 16865.8 | 11945.6 |
| 42.5° | 12462.4 | 12374.1 | 12428.7 | 12113.6 | 11945.6 | 12239.7 | 13290.1 | 15832.2 | 18349.0 | 18008.7 | 13029.6 |
| 45° | 13844.7 | 13848.9 | 13701.9 | 13601.1 | 13164.1 | 13483.4 | 14000.2 | 16252.3 | 19302.8 | 19038.1 | 13848.9 |
| 47.5° | 14731.3 | 14727.1 | 14886.8 | 15046.4 | 14596.8 | 14281.7 | 14483.4 | 16651.5 | 19794.4 | 19672.6 | 14147.3 |
| 50° | 14592.6 | 14634.7 | 14840.5 | 15437.2 | 15672.5 | 15248.1 | 14937.2 | 16533.9 | 20017.1 | 20004.5 | 14403.6 |
| 52.5° | 12693.5 | 12832.1 | 13176.7 | 14038.1 | 15222.9 | 15748.1 | 15412.0 | 16752.4 | 20126.3 | 20147.3 | 14786.0 |
| 55° | 9664.0 | 9739.6 | 10395.1 | 11441.4 | 12752.3 | 14550.6 | 15222.9 | 16924.6 | 20210.4 | 20248.2 | 15248.1 |
| 56° | 8382.5 | 8180.8 | 9126.2 | 9869.9 | 11437.2 | 13403.5 | 14743.9 | 16790.1 | 20159.9 | 20449.8 | 15479.2 |
| 57.5° | 6327.9 | 6193.4 | 6958.1 | 7886.6 | 9395.1 | 11470.7 | 13256.5 | 16155.7 | 19819.6 | 19815.4 | 15147.3 |
| 60° | 3848.8 | 3714.4 | 4302.6 | 4848.8 | 5693.4 | 7063.1 | 8958.1 | 12865.7 | 16756.5 | 17109.5 | 12264.9 |
| 62.5° | 2290.0 | 2374.0 | 2953.8 | 3285.8 | 3558.9 | 3701.7 | 4634.5 | 7647.1 | 11180.8 | 11433.0 | 7609.4 |
| 65° | 1525.2 | 1554.7 | 1991.7 | 2537.9 | 2659.7 | 2117.6 | 1886.6 | 3096.6 | 4848.8 | 4693.4 | 3138.7 |
| 67.5° | 941.2 | 1008.4 | 1336.2 | 1907.6 | 2113.5 | 1546.3 | 895.0 | 1155.4 | 1336.2 | 1336.2 | 907.6 |
| 70° | 571.5 | 605.0 | 890.8 | 1298.3 | 1449.6 | 995.8 | 651.3 | 651.3 | 642.9 | 630.2 | 542.0 |
| 72.5° | 273.1 | 294.1 | 453.8 | 668.1 | 680.7 | 525.2 | 504.2 | 550.4 | 537.8 | 533.6 | 449.6 |
| 75° | 117.7 | 126.1 | 159.7 | 210.1 | 239.5 | 222.7 | 306.7 | 394.9 | 407.5 | 394.9 | 323.5 |
| 77.5° | 37.8 | 42.0 | 58.8 | 75.6 | 79.8 | 96.6 | 130.3 | 163.8 | 189.1 | 176.4 | 159.7 |
| 80° | 4.2 | 8.4 | 16.8 | 37.8 | 58.8 | 75.6 | 96.6 | 109.2 | 121.9 | 121.9 | 113.5 |
| 82.5° | 4.2 | 4.2 | 16.8 | 33.6 | 54.6 | 71.4 | 92.4 | 105.0 | 121.9 | 126.1 | 117.7 |
| 85° | 0.0 | 4.2 | 12.6 | 29.4 | 46.3 | 46.3 | 42.0 | 42.0 | 29.4 | 29.4 | 29.4 |
| 87.5° | 0.0 | 0.0 | 4.2 | 4.2 | 4.2 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 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-T2-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3794.2 | 3794.2 | 3794.2 | 3794.2 | 3794.2 | 3794.2 | 3794.2 | 3794.2 | 3794.2 | 3794.2 | 3794.2 |
| 2.5° | 3827.8 | 3819.4 | 3706.0 | 3634.5 | 3596.7 | 3521.1 | 3474.8 | 3441.2 | 3416.1 | 3386.6 | 3390.8 |
| 5° | 3878.2 | 3848.8 | 3659.7 | 3529.4 | 3374.0 | 3290.0 | 3218.5 | 3159.7 | 3121.9 | 3113.5 | 3096.6 |
| 7.5° | 4021.1 | 3865.6 | 3579.9 | 3344.6 | 3147.1 | 3063.1 | 3000.0 | 2962.3 | 2979.1 | 2941.2 | 2970.7 |
| 10° | 4130.3 | 3899.2 | 3483.3 | 3142.9 | 2945.4 | 2882.4 | 2848.8 | 2878.2 | 2920.2 | 2903.4 | 2882.4 |
| 12.5° | 4264.8 | 3932.9 | 3327.8 | 2949.6 | 2764.8 | 2718.5 | 2777.3 | 2832.0 | 2916.0 | 2949.6 | 2907.6 |
| 15° | 4416.0 | 3970.6 | 3130.3 | 2726.9 | 2609.3 | 2647.1 | 2748.0 | 2844.6 | 2928.6 | 2970.7 | 2995.8 |
| 17.5° | 4600.9 | 3958.1 | 2937.0 | 2550.4 | 2462.2 | 2571.4 | 2693.3 | 2781.5 | 2907.6 | 2970.7 | 2953.8 |
| 20° | 4773.2 | 3916.0 | 2722.7 | 2374.0 | 2378.2 | 2479.0 | 2579.9 | 2722.7 | 2789.9 | 2874.0 | 2844.6 |
| 22.5° | 4937.0 | 3840.4 | 2500.0 | 2252.1 | 2252.1 | 2407.6 | 2458.0 | 2550.4 | 2609.3 | 2651.3 | 2647.1 |
| 25° | 5168.1 | 3697.5 | 2315.2 | 2134.5 | 2184.9 | 2285.8 | 2327.8 | 2357.2 | 2331.9 | 2365.6 | 2369.8 |
| 27.5° | 5332.0 | 3550.4 | 2163.9 | 2029.4 | 2121.8 | 2197.5 | 2184.9 | 2168.1 | 2109.3 | 2063.1 | 2092.5 |
| 30° | 5508.5 | 3378.2 | 2033.6 | 1958.0 | 2008.4 | 2075.7 | 2025.2 | 1974.8 | 1882.4 | 1806.7 | 1810.9 |
| 32.5° | 5760.6 | 3298.4 | 1920.2 | 1874.0 | 1941.2 | 1949.6 | 1895.0 | 1819.3 | 1726.9 | 1655.5 | 1651.3 |
| 35° | 6231.2 | 3247.9 | 1823.5 | 1819.3 | 1832.0 | 1836.2 | 1781.6 | 1689.1 | 1651.3 | 1592.4 | 1613.5 |
| 37.5° | 6701.8 | 3222.7 | 1756.3 | 1739.5 | 1735.3 | 1739.5 | 1676.5 | 1588.2 | 1659.7 | 1655.5 | 1663.9 |
| 40° | 7302.7 | 3336.2 | 1659.7 | 1638.7 | 1642.9 | 1642.9 | 1563.1 | 1537.9 | 1663.9 | 1676.5 | 1680.7 |
| 42.5° | 7911.9 | 3479.0 | 1596.6 | 1529.4 | 1546.3 | 1546.3 | 1504.2 | 1474.8 | 1563.1 | 1479.0 | 1466.4 |
| 45° | 8441.3 | 3689.1 | 1529.4 | 1420.2 | 1462.2 | 1483.2 | 1470.6 | 1420.2 | 1365.5 | 1222.7 | 1222.7 |
| 47.5° | 8613.6 | 3874.0 | 1449.6 | 1315.2 | 1348.8 | 1441.2 | 1403.4 | 1298.3 | 1201.7 | 1084.0 | 1075.6 |
| 50° | 8916.1 | 4075.7 | 1386.6 | 1193.3 | 1264.7 | 1378.1 | 1340.4 | 1235.3 | 1126.1 | 1042.0 | 1046.2 |
| 52.5° | 9227.0 | 4306.8 | 1268.9 | 1050.4 | 1138.7 | 1327.8 | 1327.8 | 1210.1 | 1042.0 | 983.2 | 974.8 |
| 55° | 9693.5 | 4298.4 | 1058.8 | 861.4 | 1016.9 | 1252.1 | 1273.1 | 1084.0 | 932.8 | 886.6 | 886.6 |
| 56° | 9760.6 | 4105.1 | 953.8 | 806.8 | 962.2 | 1231.1 | 1235.3 | 1050.4 | 890.8 | 840.3 | 840.3 |
| 57.5° | 9256.5 | 3706.0 | 836.1 | 739.5 | 895.0 | 1193.3 | 1197.5 | 1021.1 | 857.1 | 785.7 | 777.3 |
| 60° | 7121.9 | 2508.5 | 697.5 | 659.7 | 811.0 | 1075.6 | 1096.7 | 928.5 | 752.1 | 697.5 | 693.3 |
| 62.5° | 4021.1 | 1390.8 | 613.4 | 596.6 | 697.5 | 916.0 | 979.0 | 811.0 | 638.7 | 609.2 | 617.6 |
| 65° | 1836.2 | 764.7 | 516.8 | 483.2 | 563.0 | 705.9 | 790.0 | 668.1 | 525.2 | 491.6 | 491.6 |
| 67.5° | 672.3 | 521.0 | 441.2 | 382.3 | 394.9 | 458.0 | 512.6 | 432.8 | 348.8 | 298.3 | 310.9 |
| 70° | 479.0 | 437.0 | 386.5 | 331.9 | 306.7 | 298.3 | 294.1 | 243.7 | 172.2 | 134.5 | 142.9 |
| 72.5° | 386.5 | 361.4 | 323.5 | 281.5 | 239.5 | 201.7 | 172.2 | 126.1 | 79.8 | 54.6 | 50.5 |
| 75° | 277.3 | 264.7 | 235.3 | 201.7 | 168.0 | 142.9 | 117.7 | 79.8 | 42.0 | 21.0 | 21.0 |
| 77.5° | 142.9 | 142.9 | 138.7 | 126.1 | 105.0 | 84.0 | 67.2 | 46.3 | 25.2 | 8.4 | 8.4 |
| 80° | 109.2 | 117.7 | 121.9 | 109.2 | 96.6 | 75.6 | 54.6 | 33.6 | 16.8 | 4.2 | 4.2 |
| 82.5° | 105.0 | 121.9 | 130.3 | 113.5 | 96.6 | 71.4 | 54.6 | 33.6 | 16.8 | 4.2 | 4.2 |
| 85° | 25.2 | 25.2 | 37.8 | 42.0 | 54.6 | 58.8 | 46.3 | 29.4 | 12.6 | 4.2 | 4.2 |
| 87.5° | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 4.2 | 4.2 | 4.2 | 4.2 | 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)