

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: P654066

Luminaire Tested: **GLAN-SA8A-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24315 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

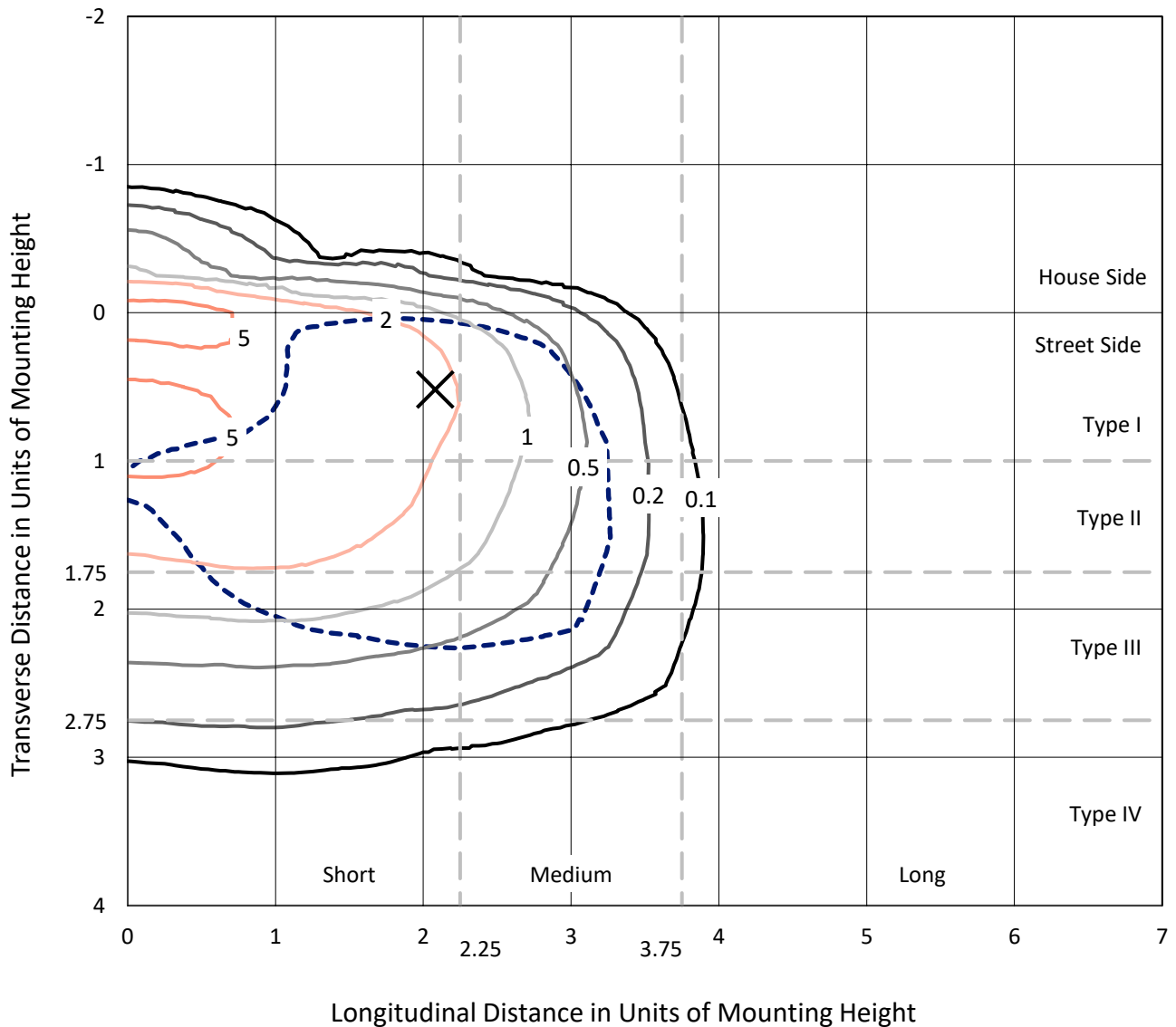
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

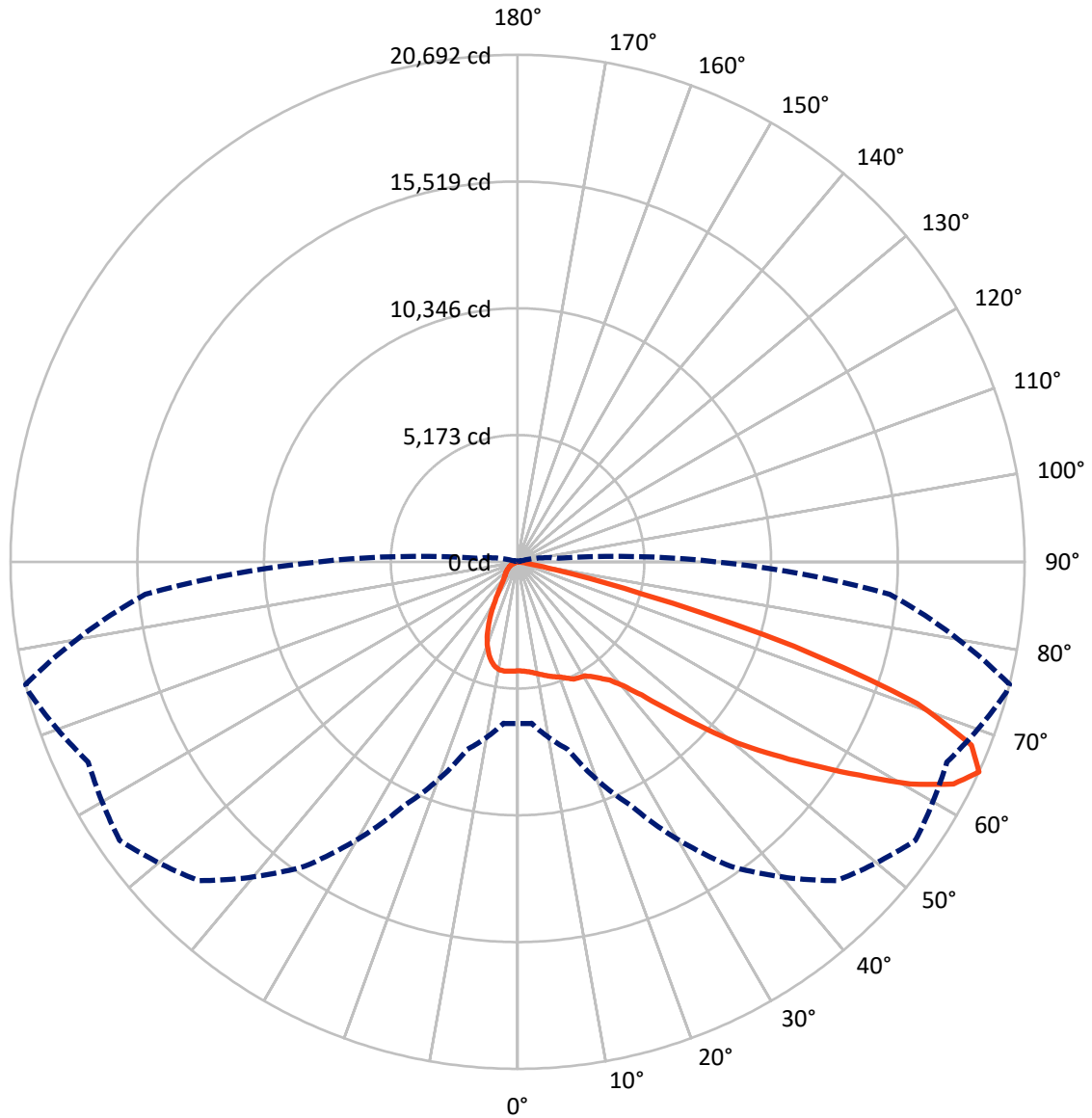
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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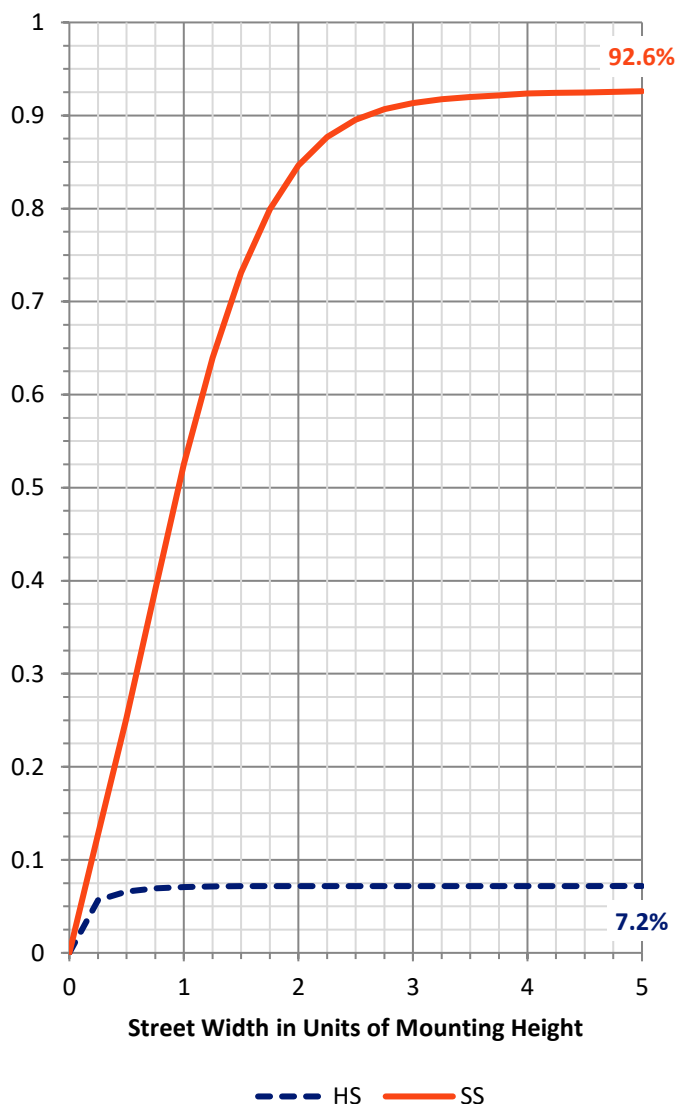
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1756.0 | 0.0 | 1756.0 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 22559.0 | 0.0 | 22559.0 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 24315.0 | 0.0 | 24315.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 366.4 | 1.5 |
| 10°-20° | 815.8 | 3.4 |
| 20°-30° | 1314.7 | 5.4 |
| 30°-40° | 2285.9 | 9.4 |
| 40°-50° | 3777.2 | 15.5 |
| 50°-60° | 5835.0 | 24.0 |
| 60°-70° | 7125.4 | 29.3 |
| 70°-80° | 2704.3 | 11.1 |
| 80°-90° | 90.2 | 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° | 24315.0 | 100.0 |
| 0°-180° | 24315.0 | 100.0 |

Coefficient of Utilization

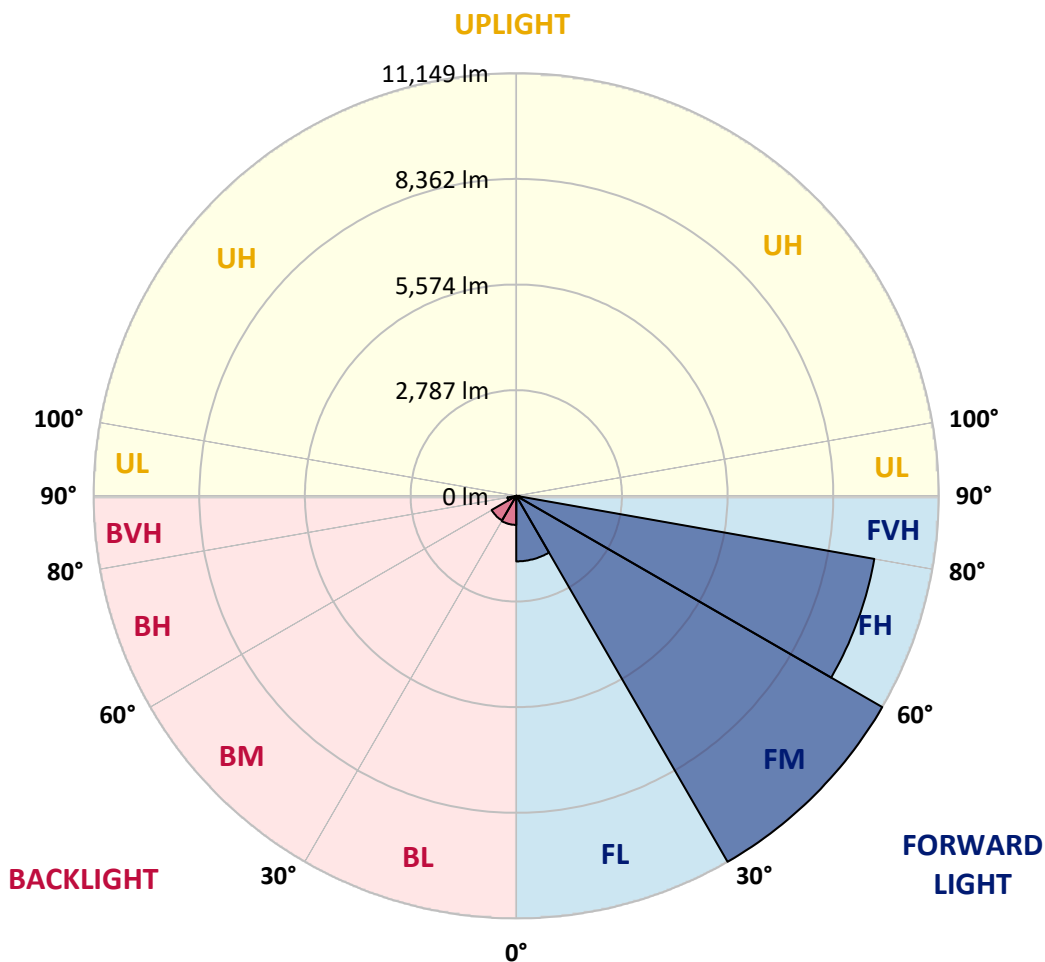


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1729.7 | 7.1 | | | |
| FM (30°-60°) | 11148.8 | 45.9 | | | |
| FH (60°-80°) | 9591.4 | 39.4 | | | G4/12000 |
| FVH (80°-90°) | 89.0 | 0.4 | | | G1/100 |
| BL (0°-30°) | 767.2 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 749.3 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 238.3 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4448.0 | 4448.0 | 4448.0 | 4448.0 | 4448.0 | 4448.0 | 4448.0 | 4448.0 | 4448.0 | 4448.0 | 4448.0 |
| 2.5° | 4250.6 | 4252.3 | 4262.6 | 4288.3 | 4327.8 | 4360.4 | 4387.9 | 4432.6 | 4463.4 | 4466.9 | 4477.1 |
| 5° | 3957.0 | 3936.4 | 3957.0 | 4023.9 | 4084.1 | 4175.1 | 4286.6 | 4398.2 | 4497.8 | 4504.6 | 4552.7 |
| 7.5° | 3627.4 | 3644.6 | 3677.2 | 3745.8 | 3859.2 | 3998.2 | 4159.6 | 4358.7 | 4547.5 | 4564.7 | 4659.1 |
| 10° | 3292.7 | 3330.4 | 3383.6 | 3488.4 | 3646.3 | 3826.6 | 4046.3 | 4331.2 | 4626.5 | 4650.6 | 4813.6 |
| 12.5° | 2983.6 | 3000.8 | 3066.0 | 3206.8 | 3402.5 | 3656.6 | 3960.4 | 4315.8 | 4714.1 | 4743.2 | 4978.5 |
| 15° | 2746.7 | 2769.1 | 2825.7 | 2952.8 | 3170.7 | 3497.0 | 3890.0 | 4310.6 | 4799.9 | 4841.1 | 5143.2 |
| 17.5° | 2702.1 | 2715.8 | 2739.9 | 2825.7 | 3016.2 | 3369.9 | 3826.6 | 4308.9 | 4882.3 | 4932.1 | 5296.0 |
| 20° | 2885.8 | 2873.8 | 2849.7 | 2841.2 | 2945.9 | 3272.1 | 3780.2 | 4322.7 | 4961.3 | 5017.9 | 5457.4 |
| 22.5° | 3345.8 | 3361.3 | 3220.5 | 3054.0 | 3019.7 | 3256.6 | 3773.3 | 4387.9 | 5086.6 | 5153.6 | 5637.6 |
| 25° | 4322.7 | 4204.2 | 3984.5 | 3586.2 | 3285.8 | 3351.0 | 3850.6 | 4542.4 | 5232.5 | 5306.4 | 5800.7 |
| 27.5° | 5402.5 | 5366.4 | 5024.8 | 4369.0 | 3809.4 | 3550.1 | 3987.9 | 4660.8 | 5280.6 | 5356.2 | 5893.5 |
| 30° | 6463.4 | 6506.3 | 6114.9 | 5390.5 | 4569.9 | 3919.2 | 4116.7 | 4705.5 | 5323.5 | 5402.5 | 6011.9 |
| 32.5° | 7447.1 | 7498.6 | 7155.2 | 6437.7 | 5466.0 | 4557.9 | 4338.1 | 4878.9 | 5503.8 | 5584.4 | 6209.4 |
| 35° | 8221.3 | 8228.2 | 7969.0 | 7397.3 | 6444.5 | 5333.8 | 4817.1 | 5182.7 | 5747.6 | 5841.9 | 6418.8 |
| 37.5° | 8932.0 | 8921.7 | 8617.9 | 8125.2 | 7259.9 | 6104.7 | 5419.7 | 5532.9 | 6025.7 | 6123.5 | 6720.9 |
| 40° | 9459.1 | 9466.0 | 9368.1 | 8904.6 | 8020.4 | 6817.1 | 5896.9 | 5860.8 | 6492.6 | 6645.4 | 7160.4 |
| 42.5° | 9811.0 | 9874.5 | 9922.5 | 9687.4 | 8976.7 | 7694.3 | 6629.9 | 6563.0 | 7302.9 | 7429.9 | 7781.9 |
| 45° | 10096.0 | 10209.2 | 10449.6 | 10437.6 | 9895.1 | 8770.6 | 7635.9 | 7498.6 | 8451.4 | 8586.9 | 8573.2 |
| 47.5° | 10303.7 | 10418.7 | 10816.9 | 11057.3 | 10758.6 | 9814.4 | 8901.1 | 8782.6 | 9823.0 | 9970.6 | 9447.0 |
| 50° | 10410.2 | 10547.5 | 11055.6 | 11520.9 | 11433.3 | 10820.4 | 10343.1 | 10350.0 | 11479.6 | 11622.1 | 10459.9 |
| 52.5° | 10161.2 | 10339.8 | 11182.6 | 12020.4 | 12190.3 | 11783.5 | 11694.2 | 11920.8 | 12954.3 | 13076.1 | 11374.9 |
| 55° | 9366.4 | 9591.3 | 11009.3 | 12446.1 | 13067.5 | 12919.9 | 13228.9 | 13574.0 | 14566.3 | 14645.3 | 12313.9 |
| 57.5° | 8863.4 | 9102.0 | 10497.7 | 12808.3 | 14121.7 | 14348.2 | 14837.5 | 15089.9 | 16229.8 | 16430.6 | 13392.0 |
| 60° | 8439.4 | 8626.5 | 10077.0 | 12885.6 | 15192.8 | 16095.8 | 16571.4 | 16832.3 | 18282.9 | 18413.4 | 14578.3 |
| 62.5° | 7733.8 | 7948.4 | 9366.4 | 12346.6 | 15731.9 | 17495.0 | 18480.4 | 18363.7 | 19870.9 | 19961.9 | 15306.2 |
| 65° | 6599.0 | 6617.9 | 7924.3 | 10992.0 | 15175.7 | 18403.1 | 19821.1 | 19331.8 | 20629.6 | 20691.5 | 15249.5 |
| 67.5° | 4925.2 | 5107.2 | 6096.0 | 8640.2 | 12818.7 | 17627.1 | 20255.4 | 19357.5 | 20150.7 | 19979.0 | 14039.2 |
| 70° | 3172.5 | 3311.5 | 4132.1 | 5991.3 | 9242.8 | 14710.4 | 18815.1 | 18030.5 | 17685.6 | 17304.4 | 11491.7 |
| 72.5° | 1464.3 | 1642.9 | 2454.9 | 3423.1 | 5481.5 | 10478.8 | 15273.6 | 14648.6 | 12729.4 | 11788.6 | 7304.6 |
| 75° | 638.7 | 683.2 | 1212.0 | 1806.0 | 2569.9 | 5541.5 | 10070.2 | 9093.4 | 5749.2 | 5251.4 | 2923.6 |
| 77.5° | 389.7 | 418.9 | 635.2 | 968.2 | 1009.5 | 2111.6 | 5424.8 | 3967.3 | 1776.8 | 1567.4 | 793.1 |
| 80° | 264.4 | 297.0 | 461.8 | 506.5 | 345.1 | 588.9 | 2036.0 | 1059.2 | 358.8 | 343.4 | 170.0 |
| 82.5° | 128.8 | 163.1 | 341.6 | 283.2 | 149.4 | 188.8 | 592.2 | 226.6 | 104.7 | 97.9 | 60.0 |
| 85° | 18.9 | 32.6 | 192.3 | 185.4 | 66.9 | 44.7 | 104.7 | 56.7 | 36.1 | 34.3 | 27.5 |
| 87.5° | 0.0 | 0.0 | 65.3 | 29.2 | 6.9 | 6.9 | 12.0 | 12.0 | 13.7 | 12.0 | 13.7 |
| 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-SA8A-840-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4448.0 | 4448.0 | 4448.0 | 4448.0 | 4448.0 | 4448.0 | 4448.0 | 4448.0 | 4448.0 | 4448.0 | 4448.0 |
| 2.5° | 4482.4 | 4490.9 | 4458.3 | 4412.0 | 4362.2 | 4312.4 | 4242.0 | 4178.4 | 4140.7 | 4163.0 | 4108.1 |
| 5° | 4563.0 | 4556.1 | 4470.3 | 4329.6 | 4142.4 | 3917.5 | 3694.3 | 3503.8 | 3442.0 | 3349.3 | 3339.0 |
| 7.5° | 4674.6 | 4655.7 | 4473.7 | 4151.0 | 3728.7 | 3306.4 | 2894.4 | 2621.4 | 2465.2 | 2333.0 | 2336.5 |
| 10° | 4830.8 | 4775.9 | 4434.3 | 3836.8 | 3141.6 | 2504.7 | 1979.4 | 1618.8 | 1462.7 | 1412.9 | 1373.4 |
| 12.5° | 4992.2 | 4885.8 | 4324.4 | 3412.8 | 2446.3 | 1711.5 | 1203.4 | 983.6 | 887.5 | 856.6 | 853.2 |
| 15° | 5136.4 | 4968.1 | 4132.1 | 2903.0 | 1778.5 | 1093.6 | 820.6 | 748.5 | 736.5 | 738.1 | 736.5 |
| 17.5° | 5278.9 | 5033.4 | 3866.0 | 2362.2 | 1208.6 | 784.6 | 705.6 | 688.4 | 693.6 | 700.4 | 698.7 |
| 20° | 5397.3 | 5047.1 | 3526.1 | 1802.5 | 855.0 | 688.4 | 662.6 | 659.2 | 664.4 | 669.5 | 669.5 |
| 22.5° | 5526.0 | 5057.4 | 3122.7 | 1248.0 | 698.7 | 640.3 | 626.6 | 626.6 | 633.4 | 640.3 | 642.0 |
| 25° | 5622.3 | 5000.8 | 2640.3 | 896.1 | 616.3 | 594.0 | 587.1 | 588.9 | 595.7 | 599.1 | 597.4 |
| 27.5° | 5637.6 | 4841.1 | 2128.7 | 686.7 | 559.7 | 537.3 | 530.5 | 537.3 | 528.7 | 533.9 | 530.5 |
| 30° | 5651.4 | 4638.5 | 1610.3 | 578.5 | 508.1 | 473.8 | 463.5 | 453.2 | 446.3 | 437.7 | 436.1 |
| 32.5° | 5694.3 | 4399.9 | 1176.0 | 520.2 | 460.1 | 422.4 | 398.3 | 369.1 | 346.7 | 339.9 | 338.2 |
| 35° | 5713.2 | 4113.2 | 863.5 | 473.8 | 417.1 | 375.9 | 333.0 | 291.8 | 259.2 | 247.2 | 255.7 |
| 37.5° | 5785.3 | 3835.1 | 669.5 | 439.5 | 379.4 | 327.9 | 273.0 | 221.4 | 190.6 | 183.7 | 187.1 |
| 40° | 5932.9 | 3533.0 | 561.4 | 410.3 | 346.7 | 327.9 | 273.0 | 221.4 | 190.6 | 183.7 | 187.1 |
| 42.5° | 6169.8 | 3232.6 | 499.6 | 382.8 | 314.2 | 238.6 | 170.0 | 130.4 | 113.3 | 108.2 | 108.2 |
| 45° | 6458.3 | 2944.2 | 456.7 | 353.6 | 279.8 | 192.3 | 133.9 | 104.7 | 94.4 | 91.0 | 91.0 |
| 47.5° | 6837.7 | 2691.8 | 420.6 | 324.5 | 242.0 | 152.8 | 108.2 | 91.0 | 84.1 | 85.9 | 87.5 |
| 50° | 7222.2 | 2504.7 | 381.1 | 291.8 | 199.1 | 125.3 | 92.7 | 80.7 | 79.0 | 80.7 | 80.7 |
| 52.5° | 7512.3 | 2394.8 | 327.9 | 247.2 | 156.3 | 104.7 | 82.4 | 75.5 | 73.8 | 70.4 | 70.4 |
| 55° | 7903.7 | 2370.8 | 261.0 | 200.8 | 123.6 | 87.5 | 73.8 | 68.7 | 63.5 | 60.0 | 58.4 |
| 57.5° | 8406.7 | 2398.3 | 200.8 | 156.3 | 96.1 | 72.1 | 65.3 | 56.7 | 49.8 | 42.9 | 42.9 |
| 60° | 8719.2 | 2336.5 | 156.3 | 120.2 | 70.4 | 58.4 | 49.8 | 41.2 | 32.6 | 27.5 | 25.7 |
| 62.5° | 8619.6 | 2075.5 | 123.6 | 89.2 | 49.8 | 42.9 | 32.6 | 27.5 | 18.9 | 13.7 | 12.0 |
| 65° | 8106.3 | 1675.5 | 99.6 | 61.8 | 36.1 | 25.7 | 17.2 | 17.2 | 8.6 | 1.7 | 0.0 |
| 67.5° | 7095.2 | 1241.1 | 79.0 | 41.2 | 20.6 | 12.0 | 8.6 | 5.1 | 0.0 | 0.0 | 0.0 |
| 70° | 5775.0 | 896.1 | 61.8 | 25.7 | 12.0 | 8.6 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 |
| 72.5° | 3666.9 | 513.3 | 48.1 | 15.5 | 8.6 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1418.0 | 200.8 | 32.6 | 10.3 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 401.7 | 94.4 | 18.9 | 5.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 104.7 | 41.2 | 10.3 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 49.8 | 17.2 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 29.2 | 6.9 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 13.7 | 1.7 | 0.0 | 0.0 | 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)