

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: P654249

Luminaire Tested: **GLAN-SA3B-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3B-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11704.2 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

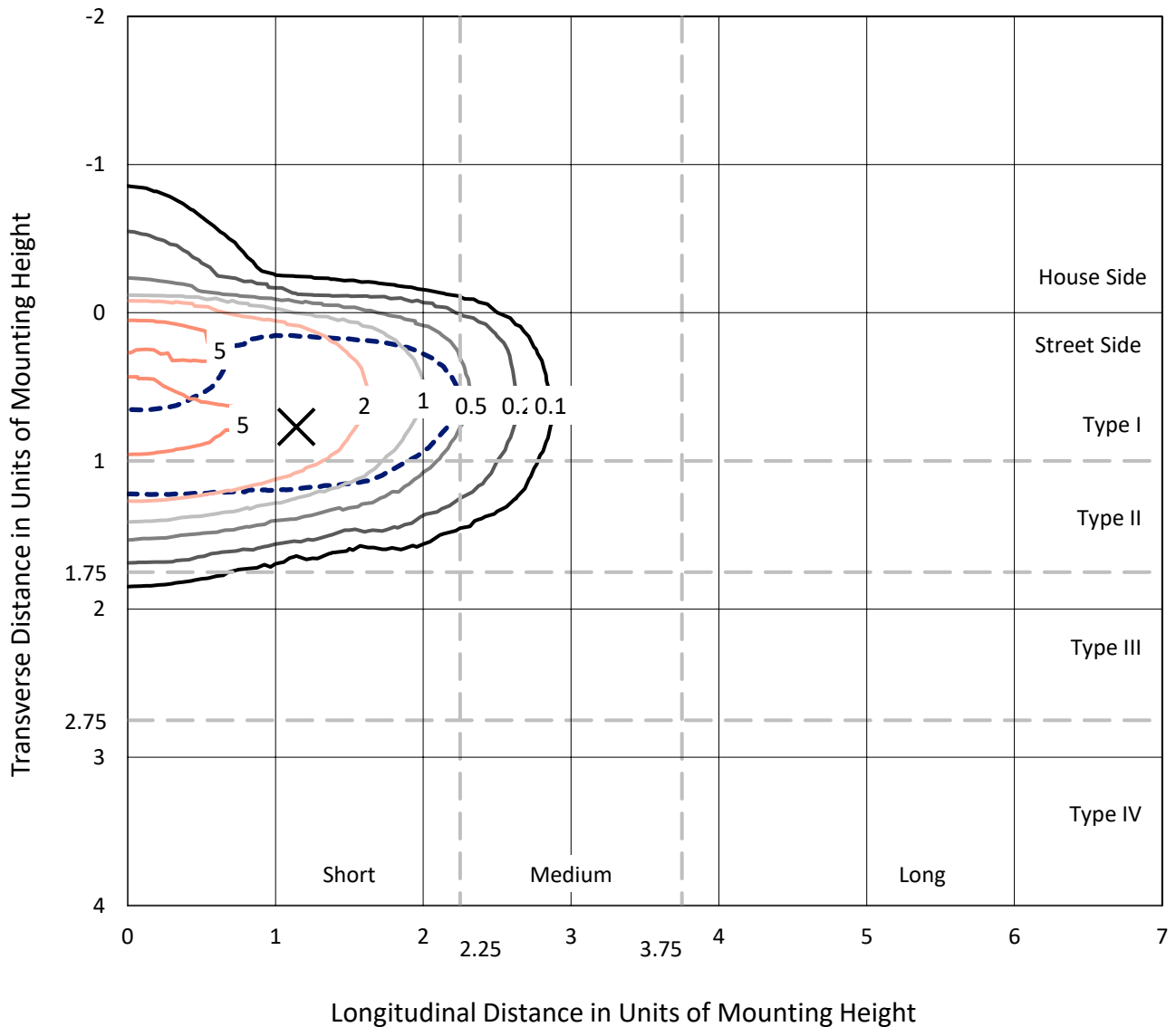
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

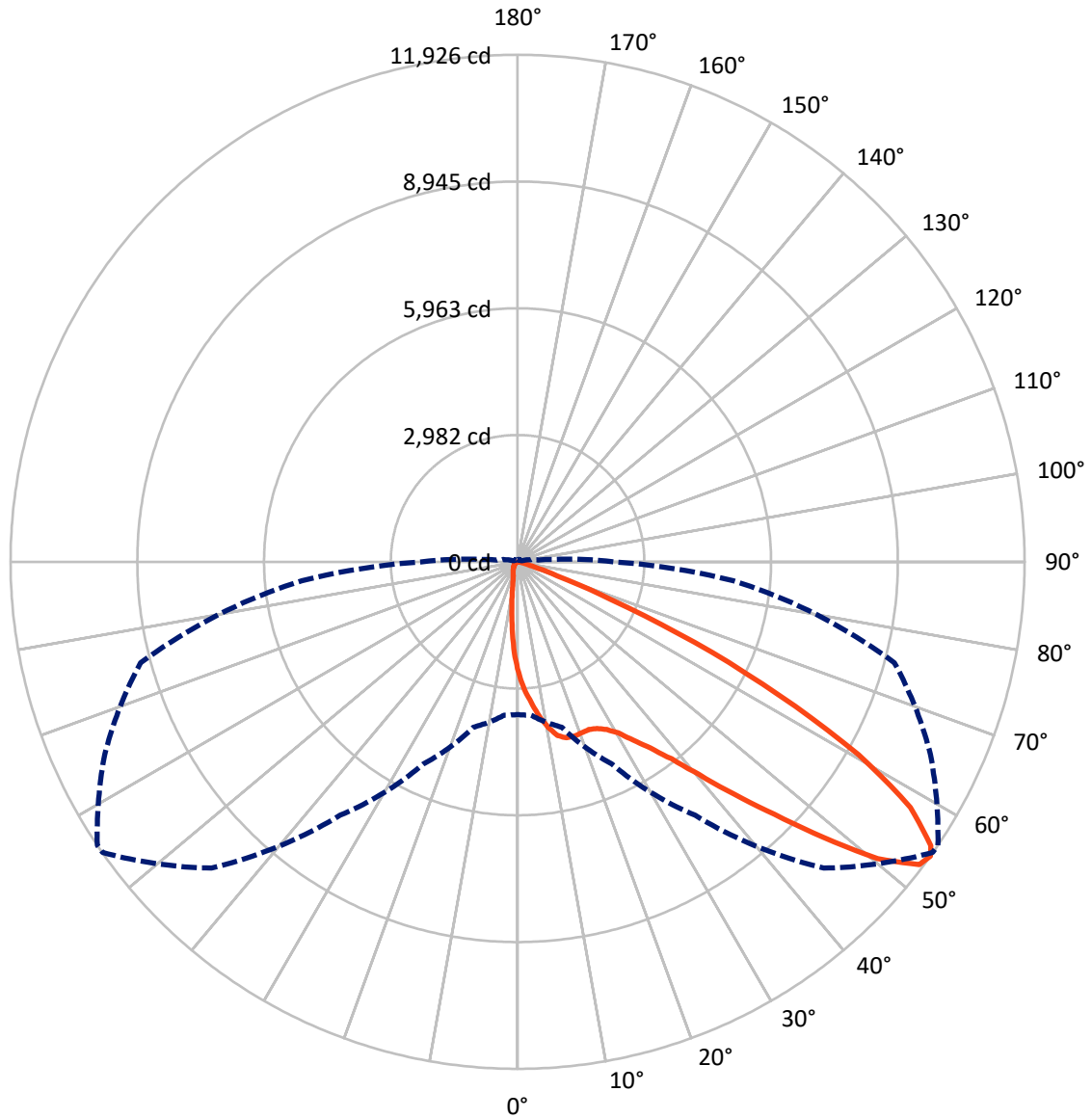
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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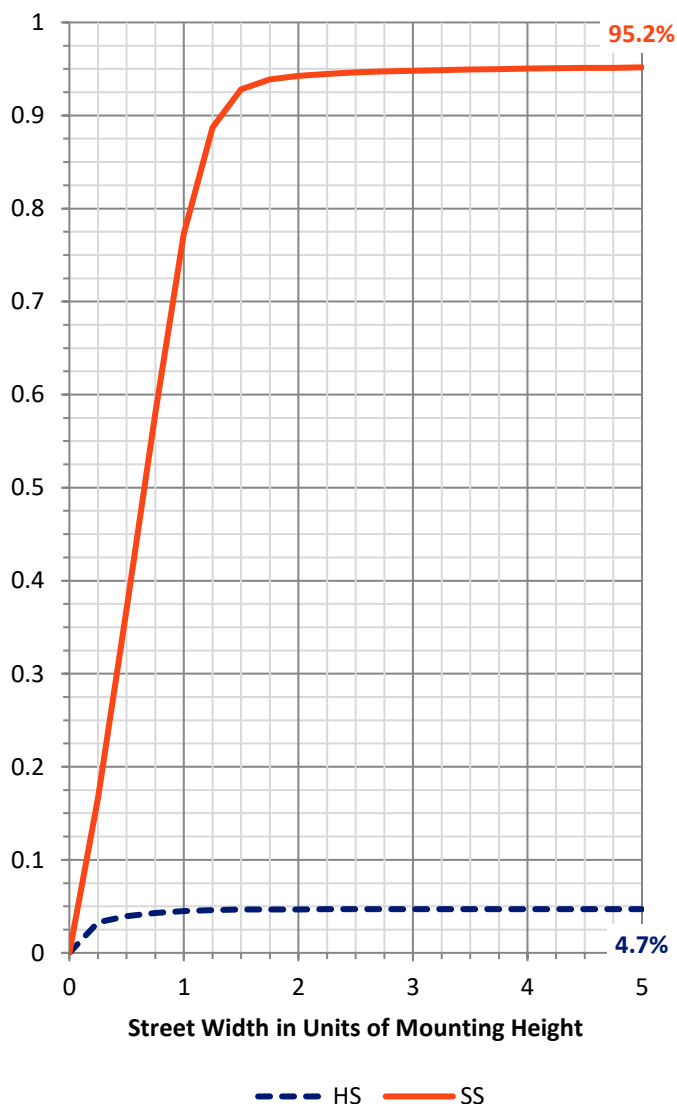
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 553.5 | 0.0 | 553.5 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 11150.7 | 0.0 | 11150.7 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 11704.2 | 0.0 | 11704.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 229.8 | 2.0 |
| 10°-20° | 621.2 | 5.3 |
| 20°-30° | 1075.8 | 9.2 |
| 30°-40° | 1857.0 | 15.9 |
| 40°-50° | 3160.7 | 27.0 |
| 50°-60° | 3128.0 | 26.7 |
| 60°-70° | 1427.7 | 12.2 |
| 70°-80° | 183.4 | 1.6 |
| 80°-90° | 20.7 | 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° | 11704.2 | 100.0 |
| 0°-180° | 11704.2 | 100.0 |

Coefficient of Utilization

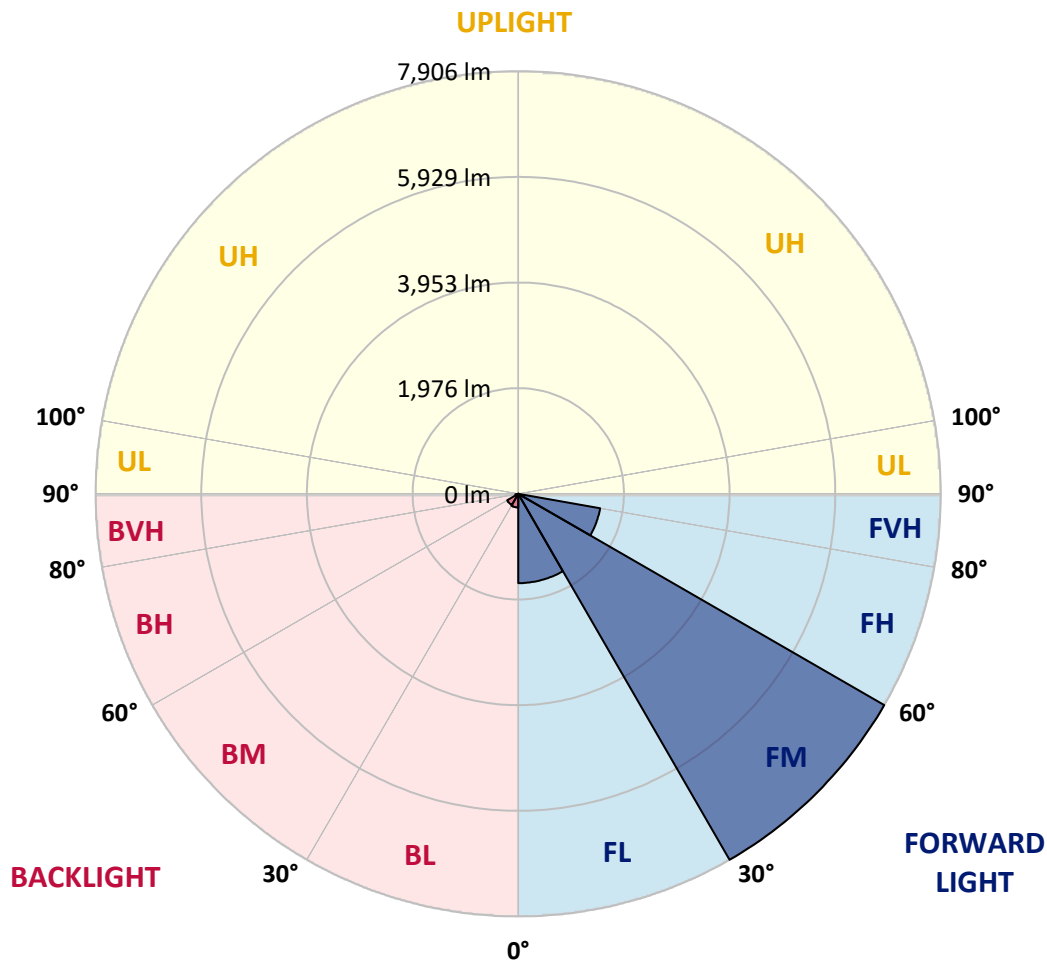


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1670.8 | 14.3 | | | |
| FM (30°-60°) | 7905.9 | 67.5 | | | |
| FH (60°-80°) | 1555.6 | 13.3 | | | G1/1800 |
| FVH (80°-90°) | 18.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 256.0 | 2.2 | B1/500 | | |
| BM (30°-60°) | 239.9 | 2.0 | B1/1000 | | |
| BH (60°-80°) | 55.4 | 0.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| 0° | 2600.4 | 2600.4 | 2600.4 | 2600.4 | 2600.4 | 2600.4 | 2600.4 | 2600.4 | 2600.4 | 2600.4 | 2600.4 |
| 2.5° | 3304.7 | 3281.8 | 3250.2 | 3225.7 | 3168.1 | 3085.2 | 2997.5 | 2997.5 | 2913.1 | 2795.4 | 2675.4 |
| 5° | 3811.7 | 3796.7 | 3765.8 | 3702.7 | 3637.9 | 3521.9 | 3345.8 | 3315.0 | 3164.2 | 2951.0 | 2726.7 |
| 7.5° | 4017.8 | 4024.9 | 4026.5 | 4009.9 | 3979.1 | 3864.6 | 3690.1 | 3668.8 | 3427.9 | 3142.1 | 2793.8 |
| 10° | 3820.3 | 3855.1 | 3889.0 | 3957.7 | 4054.9 | 4082.6 | 3983.8 | 3961.7 | 3724.8 | 3335.5 | 2866.5 |
| 12.5° | 3526.6 | 3545.6 | 3564.5 | 3672.6 | 3867.8 | 4091.2 | 4194.7 | 4193.9 | 3993.3 | 3528.2 | 2958.8 |
| 15° | 3390.0 | 3406.6 | 3408.2 | 3456.3 | 3625.3 | 3950.7 | 4284.6 | 4296.5 | 4255.5 | 3765.8 | 3058.3 |
| 17.5° | 3418.4 | 3431.9 | 3420.8 | 3432.6 | 3521.1 | 3795.9 | 4274.4 | 4313.9 | 4467.9 | 3994.1 | 3148.4 |
| 20° | 3604.0 | 3630.0 | 3587.4 | 3554.2 | 3581.1 | 3754.8 | 4239.6 | 4294.9 | 4617.9 | 4216.8 | 3230.4 |
| 22.5° | 3937.2 | 3951.4 | 3897.7 | 3807.0 | 3759.5 | 3840.8 | 4230.1 | 4284.6 | 4745.8 | 4399.2 | 3277.9 |
| 25° | 4307.6 | 4302.8 | 4243.6 | 4141.8 | 4042.3 | 4014.6 | 4292.5 | 4341.5 | 4851.6 | 4563.4 | 3292.1 |
| 27.5° | 4677.9 | 4692.1 | 4592.6 | 4466.3 | 4347.0 | 4275.2 | 4432.3 | 4468.7 | 4970.9 | 4750.6 | 3309.4 |
| 30° | 5108.3 | 5085.4 | 4987.5 | 4843.0 | 4706.3 | 4606.1 | 4657.4 | 4667.6 | 5135.1 | 4998.5 | 3355.3 |
| 32.5° | 5668.2 | 5605.0 | 5495.2 | 5242.5 | 5144.6 | 4974.9 | 4987.5 | 5000.1 | 5334.9 | 5244.1 | 3410.5 |
| 35° | 6427.8 | 6424.7 | 6209.9 | 5869.5 | 5631.0 | 5420.2 | 5364.9 | 5375.2 | 5637.4 | 5609.0 | 3533.0 |
| 37.5° | 7342.2 | 7354.9 | 7110.1 | 6767.4 | 6328.3 | 5993.5 | 5879.8 | 5881.4 | 6096.9 | 6112.7 | 3719.2 |
| 40° | 8086.9 | 8120.0 | 7973.9 | 7742.6 | 7309.0 | 6785.5 | 6594.4 | 6577.0 | 6742.9 | 6723.1 | 3985.4 |
| 42.5° | 8407.5 | 8438.3 | 8492.8 | 8573.3 | 8334.8 | 7902.9 | 7452.0 | 7475.6 | 7526.2 | 7388.0 | 4283.9 |
| 45° | 8250.3 | 8299.2 | 8513.3 | 9010.7 | 9235.0 | 9089.7 | 8552.0 | 8469.0 | 8255.1 | 8110.5 | 4584.0 |
| 47.5° | 7595.7 | 7714.9 | 8072.7 | 8901.0 | 9685.9 | 10177.1 | 9793.3 | 9683.5 | 8984.7 | 8638.1 | 4775.0 |
| 50° | 6519.4 | 6526.5 | 7024.8 | 8083.7 | 9452.2 | 10863.3 | 11060.7 | 10978.6 | 9664.6 | 8934.2 | 4871.4 |
| 52.5° | 4726.1 | 4881.7 | 5338.1 | 6564.4 | 8439.9 | 10759.1 | 11868.5 | 11834.6 | 10365.8 | 9085.7 | 5010.3 |
| 54° | 3592.9 | 3622.9 | 4028.8 | 5245.7 | 7276.7 | 10186.5 | 11918.2 | 11926.1 | 10714.1 | 9177.4 | 5092.5 |
| 55° | 2945.4 | 2873.5 | 3300.0 | 4468.7 | 6483.1 | 9680.4 | 11755.6 | 11793.5 | 10870.4 | 9224.8 | 5153.3 |
| 57.5° | 1396.1 | 1396.9 | 1723.0 | 2357.2 | 4060.4 | 7516.8 | 10761.4 | 10895.7 | 10887.8 | 9306.1 | 5340.4 |
| 60° | 706.8 | 711.5 | 783.3 | 1088.2 | 2005.7 | 4997.0 | 8897.9 | 9217.6 | 10049.9 | 9317.9 | 5402.0 |
| 62.5° | 494.3 | 488.8 | 476.9 | 523.5 | 844.1 | 2539.6 | 6624.4 | 6902.3 | 8538.5 | 8867.1 | 5206.2 |
| 65° | 423.3 | 411.4 | 378.3 | 371.1 | 426.4 | 1011.6 | 4125.9 | 4579.2 | 6519.4 | 7677.8 | 4648.7 |
| 67.5° | 361.6 | 356.9 | 326.9 | 308.7 | 301.7 | 440.6 | 2128.9 | 2367.4 | 4456.0 | 5518.9 | 3521.1 |
| 70° | 307.2 | 304.8 | 286.6 | 263.7 | 244.0 | 263.7 | 789.6 | 978.4 | 2483.5 | 2971.5 | 1661.4 |
| 72.5° | 249.5 | 251.9 | 255.1 | 225.8 | 205.3 | 187.1 | 337.2 | 392.5 | 1039.2 | 1062.1 | 581.2 |
| 75° | 218.7 | 216.4 | 216.4 | 196.6 | 171.4 | 139.0 | 185.6 | 199.8 | 318.2 | 295.4 | 135.1 |
| 77.5° | 154.0 | 148.4 | 173.8 | 161.9 | 142.9 | 98.7 | 105.8 | 112.1 | 131.9 | 112.9 | 63.2 |
| 80° | 106.6 | 106.6 | 111.3 | 145.3 | 128.7 | 71.8 | 64.8 | 69.5 | 78.2 | 67.1 | 36.3 |
| 82.5° | 60.0 | 61.6 | 72.7 | 77.4 | 75.0 | 48.2 | 42.6 | 43.4 | 52.1 | 45.8 | 22.9 |
| 85° | 7.1 | 11.9 | 41.9 | 41.0 | 30.8 | 21.4 | 23.7 | 24.5 | 32.4 | 28.4 | 13.5 |
| 87.5° | 0.8 | 1.6 | 8.7 | 11.0 | 7.9 | 8.7 | 8.7 | 8.7 | 11.0 | 12.6 | 9.5 |
| 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-SA3B-840-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2600.4 | 2600.4 | 2600.4 | 2600.4 | 2600.4 | 2600.4 | 2600.4 | 2600.4 | 2600.4 | 2600.4 | 2600.4 |
| 2.5° | 2610.6 | 2550.6 | 2407.7 | 2241.9 | 2136.1 | 1963.9 | 1818.6 | 1713.5 | 1687.5 | 1636.9 | 1652.0 |
| 5° | 2607.4 | 2482.7 | 2191.3 | 1883.3 | 1554.8 | 1310.0 | 1127.6 | 983.9 | 920.7 | 878.8 | 849.7 |
| 7.5° | 2609.0 | 2414.0 | 1946.5 | 1456.1 | 1063.7 | 823.6 | 654.6 | 567.0 | 508.6 | 484.1 | 487.2 |
| 10° | 2613.7 | 2336.6 | 1662.2 | 1078.7 | 717.8 | 532.3 | 428.7 | 386.9 | 367.2 | 364.1 | 363.2 |
| 12.5° | 2624.8 | 2252.1 | 1390.6 | 800.7 | 502.2 | 386.9 | 347.4 | 333.2 | 326.9 | 326.9 | 324.5 |
| 15° | 2636.6 | 2158.9 | 1164.7 | 595.4 | 386.9 | 332.4 | 314.3 | 307.2 | 303.3 | 303.3 | 302.4 |
| 17.5° | 2636.6 | 2051.5 | 953.9 | 462.0 | 333.2 | 305.6 | 291.4 | 281.9 | 278.7 | 278.7 | 278.0 |
| 20° | 2620.1 | 1926.7 | 766.7 | 371.9 | 302.4 | 280.3 | 266.1 | 255.8 | 251.9 | 250.3 | 249.5 |
| 22.5° | 2562.4 | 1760.1 | 610.4 | 319.8 | 277.2 | 258.2 | 240.0 | 228.2 | 225.1 | 223.5 | 224.3 |
| 25° | 2459.8 | 1572.2 | 483.2 | 281.1 | 254.2 | 231.4 | 215.5 | 206.9 | 203.7 | 203.7 | 204.5 |
| 27.5° | 2354.0 | 1375.5 | 383.0 | 251.9 | 226.6 | 206.1 | 193.4 | 188.0 | 187.1 | 189.5 | 190.3 |
| 30° | 2256.1 | 1178.2 | 310.3 | 228.2 | 202.2 | 184.8 | 176.1 | 174.5 | 174.5 | 175.3 | 176.1 |
| 32.5° | 2147.1 | 1005.2 | 259.8 | 207.6 | 182.4 | 167.4 | 162.6 | 162.6 | 164.2 | 164.2 | 165.8 |
| 35° | 2078.4 | 856.8 | 228.2 | 188.0 | 167.4 | 154.7 | 151.6 | 152.4 | 154.7 | 157.9 | 159.5 |
| 37.5° | 2041.3 | 738.3 | 207.6 | 172.2 | 153.2 | 144.5 | 141.4 | 142.9 | 148.4 | 154.0 | 154.7 |
| 40° | 2044.4 | 649.1 | 191.1 | 158.7 | 142.1 | 132.6 | 130.3 | 135.1 | 140.5 | 146.1 | 146.8 |
| 42.5° | 2079.2 | 582.7 | 175.3 | 142.9 | 132.6 | 119.3 | 118.4 | 123.2 | 125.6 | 131.1 | 131.9 |
| 45° | 2120.2 | 534.6 | 158.7 | 126.3 | 115.3 | 103.4 | 104.2 | 108.2 | 111.3 | 120.0 | 121.6 |
| 47.5° | 2132.9 | 501.4 | 139.8 | 107.4 | 94.8 | 90.8 | 91.6 | 93.9 | 100.2 | 108.2 | 109.0 |
| 50° | 2147.1 | 480.9 | 121.6 | 90.8 | 80.6 | 79.7 | 80.6 | 82.2 | 86.0 | 89.2 | 88.5 |
| 52.5° | 2207.9 | 480.1 | 106.6 | 79.0 | 68.7 | 70.3 | 71.1 | 70.3 | 67.1 | 62.4 | 60.8 |
| 54° | 2264.7 | 482.5 | 99.5 | 73.4 | 63.2 | 65.5 | 64.8 | 60.8 | 52.9 | 48.2 | 45.8 |
| 55° | 2310.6 | 484.8 | 95.5 | 69.5 | 60.0 | 60.8 | 61.6 | 53.7 | 43.4 | 38.7 | 37.1 |
| 57.5° | 2400.6 | 479.3 | 86.0 | 60.8 | 52.9 | 49.8 | 48.9 | 35.6 | 23.7 | 20.5 | 18.9 |
| 60° | 2355.6 | 432.7 | 78.2 | 52.1 | 45.0 | 40.3 | 33.1 | 19.8 | 11.9 | 8.7 | 8.7 |
| 62.5° | 2178.7 | 367.2 | 69.5 | 42.6 | 37.1 | 30.8 | 17.4 | 11.0 | 5.6 | 3.2 | 2.4 |
| 65° | 1948.8 | 308.7 | 62.4 | 34.0 | 29.2 | 19.8 | 9.5 | 7.1 | 2.4 | 0.0 | 0.0 |
| 67.5° | 1449.0 | 229.0 | 52.9 | 26.8 | 22.1 | 12.6 | 6.3 | 4.0 | 0.8 | 0.0 | 0.0 |
| 70° | 671.2 | 139.8 | 45.0 | 20.5 | 15.8 | 9.5 | 4.7 | 2.4 | 0.0 | 0.0 | 0.0 |
| 72.5° | 192.7 | 87.6 | 37.1 | 15.0 | 11.0 | 7.9 | 4.0 | 1.6 | 0.8 | 0.0 | 0.0 |
| 75° | 67.1 | 70.3 | 27.7 | 11.0 | 8.7 | 5.6 | 3.2 | 1.6 | 0.8 | 0.0 | 0.0 |
| 77.5° | 40.3 | 56.9 | 17.4 | 9.5 | 7.1 | 4.7 | 3.2 | 1.6 | 0.8 | 0.8 | 0.0 |
| 80° | 22.9 | 37.9 | 11.0 | 7.9 | 6.3 | 4.0 | 2.4 | 1.6 | 0.8 | 0.8 | 0.0 |
| 82.5° | 12.6 | 18.2 | 8.7 | 7.1 | 5.6 | 4.0 | 2.4 | 1.6 | 0.8 | 0.8 | 0.8 |
| 85° | 10.3 | 9.5 | 7.1 | 6.3 | 4.7 | 3.2 | 2.4 | 0.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.9 | 6.3 | 6.3 | 6.3 | 4.7 | 3.2 | 2.4 | 0.8 | 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)