

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: P528805

Luminaire Tested: **GLAN-SA3D-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10732 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

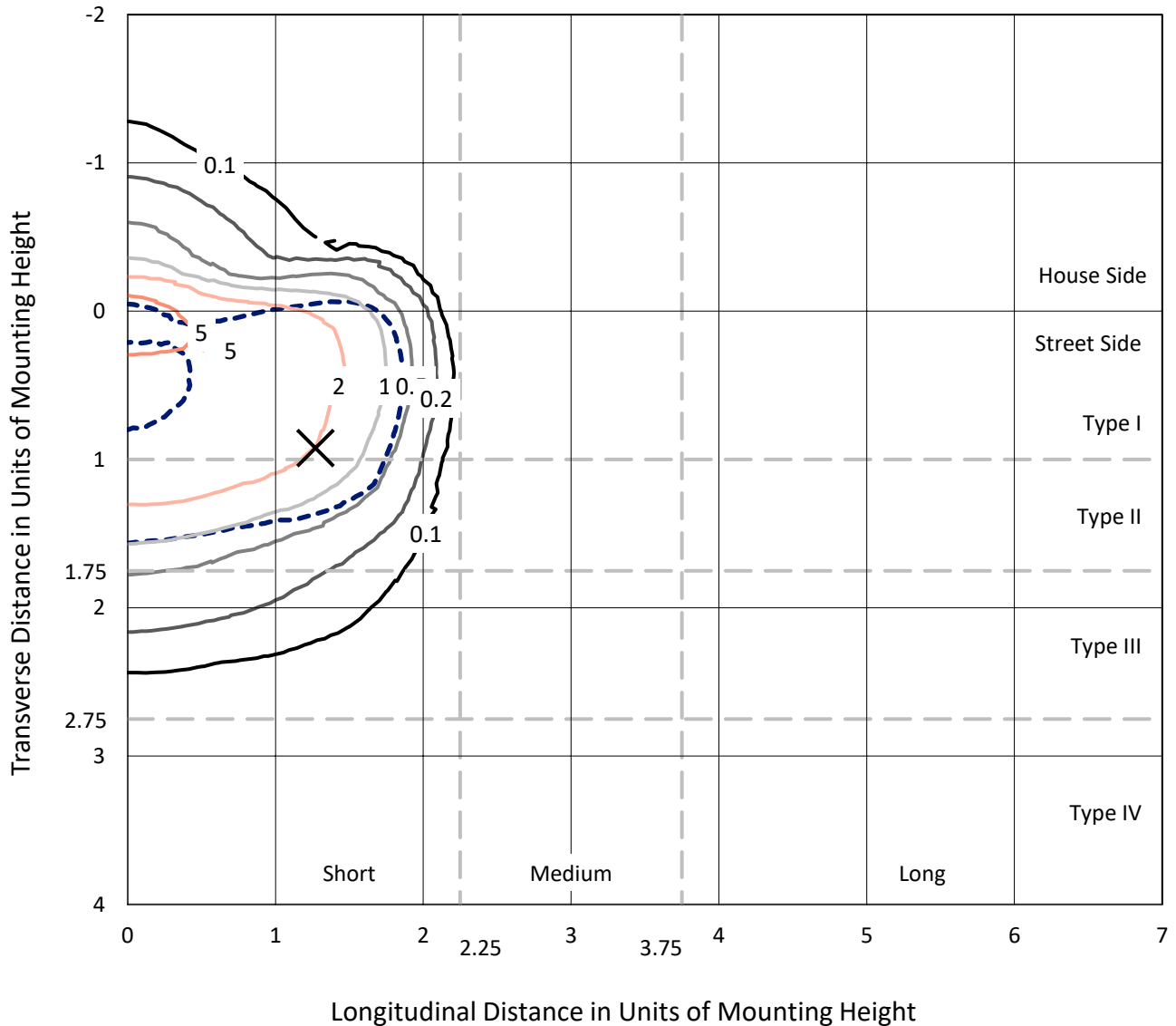
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

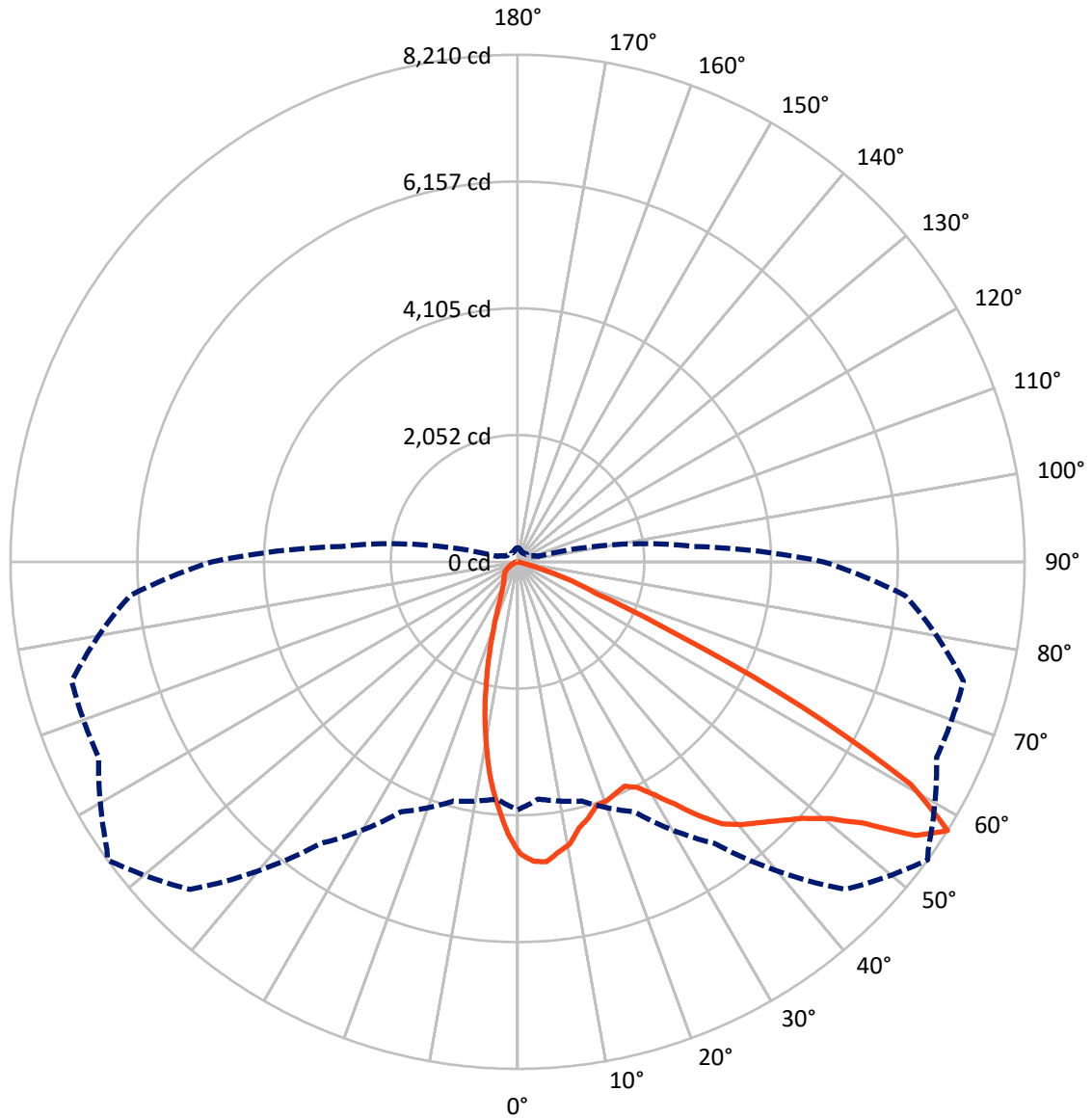
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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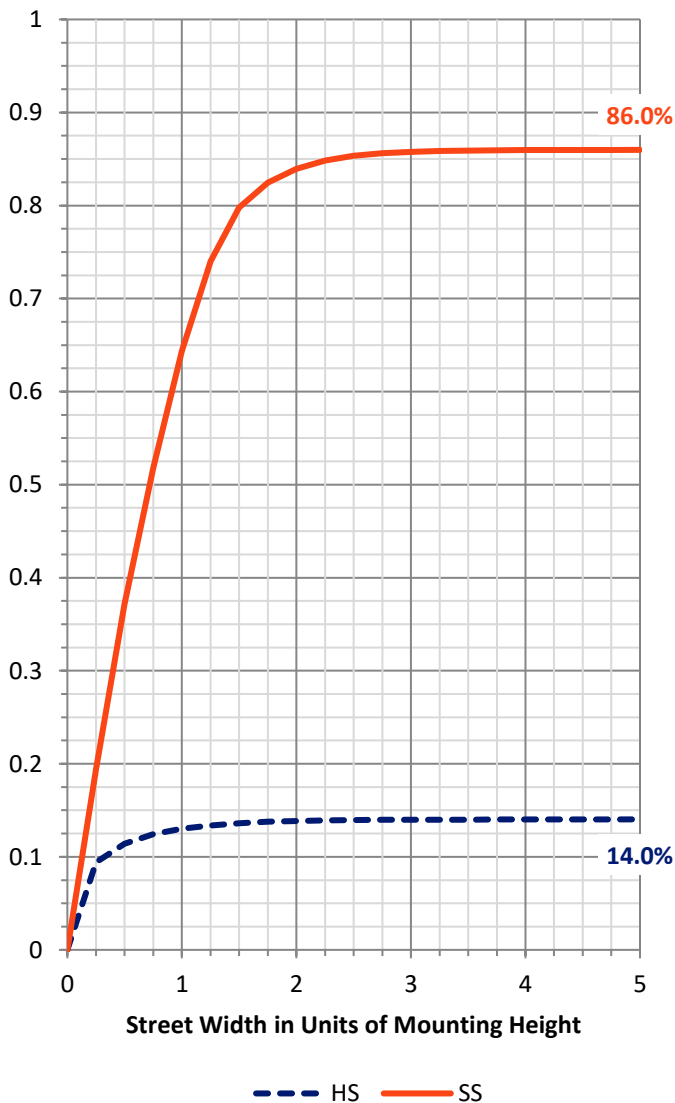
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1516.6 | 0.0 | 1516.6 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 9215.4 | 0.0 | 9215.4 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 10732.0 | 0.0 | 10732.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 395.6 | 3.7 |
| 10°-20° | 844.6 | 7.9 |
| 20°-30° | 1119.3 | 10.4 |
| 30°-40° | 1626.7 | 15.2 |
| 40°-50° | 2412.1 | 22.5 |
| 50°-60° | 3016.2 | 28.1 |
| 60°-70° | 1189.8 | 11.1 |
| 70°-80° | 118.5 | 1.1 |
| 80°-90° | 9.2 | 0.1 |
| 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° | 10732.0 | 100.0 |
| 0°-180° | 10732.0 | 100.0 |

Coefficient of Utilization

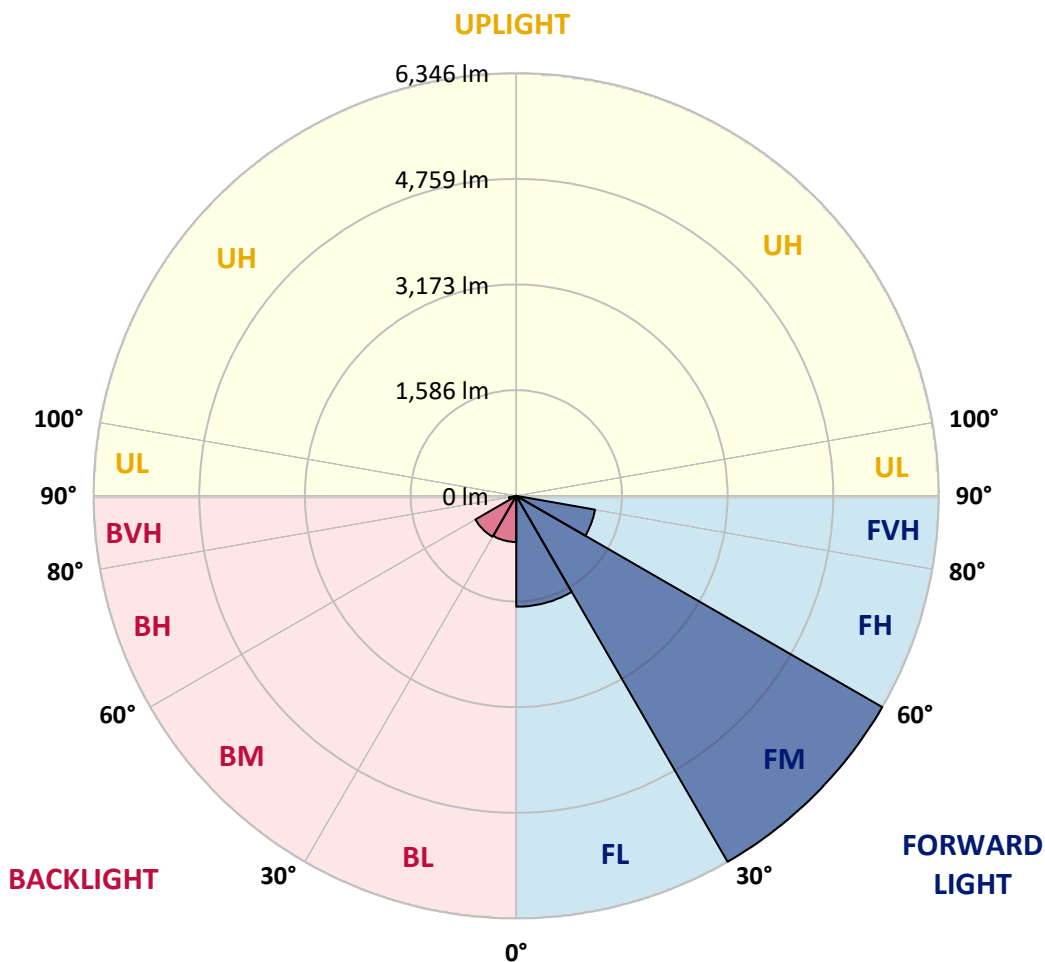


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1665.9 | 15.5 | | | |
| FM (30°-60°) | 6345.8 | 59.1 | | | |
| FH (60°-80°) | 1199.5 | 11.2 | | | G1/1800 |
| FVH (80°-90°) | 4.2 | 0.0 | | | G0/10 |
| BL (0°-30°) | 693.6 | 6.5 | B2/1000 | | |
| BM (30°-60°) | 709.2 | 6.6 | B1/1000 | | |
| BH (60°-80°) | 108.8 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 5.0 | 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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 |
| 2.5° | 5003.0 | 4951.1 | 4955.1 | 4937.1 | 4913.2 | 4931.1 | 4853.3 | 4871.3 | 4869.3 | 4763.5 | 4693.7 |
| 5° | 4877.3 | 4933.1 | 4875.3 | 4923.2 | 4877.3 | 4927.2 | 4879.3 | 4843.3 | 4785.5 | 4707.6 | 4577.9 |
| 7.5° | 4663.7 | 4609.8 | 4625.8 | 4685.7 | 4695.7 | 4807.4 | 4747.5 | 4793.4 | 4769.5 | 4615.8 | 4438.2 |
| 10° | 4234.7 | 4222.7 | 4302.5 | 4382.4 | 4480.1 | 4599.9 | 4645.8 | 4619.8 | 4601.9 | 4544.0 | 4306.5 |
| 12.5° | 3905.4 | 3939.3 | 3937.3 | 4069.0 | 4234.7 | 4302.5 | 4422.3 | 4418.3 | 4518.1 | 4410.3 | 4182.8 |
| 15° | 3592.1 | 3610.1 | 3693.9 | 3775.7 | 3959.3 | 4152.9 | 4300.5 | 4320.5 | 4440.2 | 4364.4 | 4087.0 |
| 17.5° | 3400.5 | 3374.6 | 3440.4 | 3538.2 | 3725.8 | 3979.2 | 4142.9 | 4190.8 | 4354.4 | 4338.4 | 3977.2 |
| 20° | 3210.9 | 3210.9 | 3264.8 | 3380.6 | 3552.2 | 3837.6 | 4128.9 | 4114.9 | 4354.4 | 4308.5 | 3859.5 |
| 22.5° | 3147.1 | 3179.0 | 3193.0 | 3280.8 | 3484.3 | 3729.8 | 4069.0 | 4095.0 | 4388.3 | 4294.5 | 3807.6 |
| 25° | 3234.9 | 3193.0 | 3197.0 | 3266.8 | 3458.4 | 3677.9 | 4025.1 | 4083.0 | 4450.2 | 4364.4 | 3765.7 |
| 27.5° | 3248.8 | 3290.8 | 3302.7 | 3350.6 | 3478.3 | 3693.9 | 4134.9 | 4252.6 | 4603.9 | 4528.0 | 3777.7 |
| 30° | 3370.6 | 3412.5 | 3410.5 | 3492.3 | 3580.1 | 3823.6 | 4380.4 | 4404.3 | 4921.2 | 4733.6 | 3851.5 |
| 32.5° | 3518.3 | 3562.2 | 3576.1 | 3671.9 | 3741.8 | 4061.1 | 4679.7 | 4741.6 | 5226.5 | 5056.9 | 4045.1 |
| 35° | 3701.8 | 3685.9 | 3749.7 | 3845.5 | 3995.2 | 4408.3 | 5044.9 | 5148.7 | 5555.8 | 5475.9 | 4244.7 |
| 37.5° | 3931.3 | 3911.4 | 3973.3 | 4128.9 | 4332.5 | 4819.4 | 5382.1 | 5450.0 | 5795.2 | 5865.1 | 4613.8 |
| 40° | 4093.0 | 4101.0 | 4288.6 | 4498.1 | 4713.6 | 5210.5 | 5595.7 | 5661.5 | 5962.9 | 6228.3 | 4893.2 |
| 42.5° | 4362.4 | 4412.3 | 4637.8 | 4893.2 | 5118.7 | 5503.9 | 5769.3 | 5833.2 | 6040.7 | 6519.6 | 5270.4 |
| 45° | 4753.5 | 4731.6 | 4981.0 | 5266.4 | 5515.9 | 5809.2 | 5974.8 | 5952.9 | 6086.6 | 6809.0 | 5507.9 |
| 47.5° | 5256.4 | 5260.4 | 5426.1 | 5669.5 | 5928.9 | 6074.6 | 6204.3 | 6126.5 | 6182.4 | 7114.3 | 5825.2 |
| 50° | 5599.7 | 5629.6 | 5763.3 | 6012.8 | 6142.5 | 6366.0 | 6531.6 | 6483.7 | 6465.8 | 7297.9 | 6024.7 |
| 52.5° | 5687.5 | 5777.3 | 5849.1 | 6160.4 | 6463.8 | 6817.0 | 7028.5 | 7130.3 | 6811.0 | 7359.8 | 6278.2 |
| 55° | 5024.9 | 5104.8 | 5358.2 | 5785.3 | 6585.5 | 7531.4 | 7822.8 | 7824.8 | 7262.0 | 7635.2 | 6455.8 |
| 57.5° | 4017.2 | 3855.5 | 4011.2 | 4464.2 | 5567.7 | 7501.5 | 8209.9 | 8116.1 | 7487.5 | 7473.5 | 6302.1 |
| 60° | 2777.9 | 2738.0 | 2747.9 | 2927.6 | 3853.5 | 5966.9 | 7315.9 | 7437.6 | 6894.8 | 6477.7 | 4989.0 |
| 62.5° | 2201.2 | 2167.2 | 2123.3 | 2103.4 | 2392.7 | 3717.8 | 5160.6 | 5332.3 | 4821.4 | 4200.8 | 2957.5 |
| 65° | 1724.2 | 1704.2 | 1710.2 | 1790.1 | 1788.1 | 2109.4 | 2821.8 | 2751.9 | 2203.1 | 1628.4 | 930.0 |
| 67.5° | 1163.4 | 1193.4 | 1217.3 | 1458.8 | 1582.5 | 1468.8 | 1363.0 | 1323.1 | 716.4 | 301.3 | 205.5 |
| 70° | 654.6 | 658.5 | 684.5 | 912.0 | 1201.4 | 1139.5 | 939.9 | 939.9 | 357.2 | 109.8 | 117.7 |
| 72.5° | 357.2 | 345.2 | 321.3 | 393.1 | 534.8 | 542.8 | 419.1 | 365.2 | 105.8 | 71.8 | 65.9 |
| 75° | 173.6 | 171.6 | 147.7 | 121.7 | 115.7 | 95.8 | 73.8 | 67.9 | 47.9 | 45.9 | 39.9 |
| 77.5° | 35.9 | 33.9 | 18.0 | 18.0 | 20.0 | 22.0 | 27.9 | 27.9 | 33.9 | 33.9 | 27.9 |
| 80° | 0.0 | 0.0 | 2.0 | 8.0 | 14.0 | 20.0 | 23.9 | 23.9 | 27.9 | 27.9 | 22.0 |
| 82.5° | 0.0 | 0.0 | 2.0 | 6.0 | 12.0 | 18.0 | 22.0 | 23.9 | 27.9 | 29.9 | 23.9 |
| 85° | 0.0 | 0.0 | 0.0 | 4.0 | 10.0 | 14.0 | 12.0 | 12.0 | 10.0 | 8.0 | 4.0 |
| 87.5° | 0.0 | 0.0 | 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 |



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CATALOG NUMBER: GLAN-SA3D-830-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 |
| 2.5° | 4657.7 | 4653.8 | 4562.0 | 4510.1 | 4416.3 | 4334.5 | 4268.6 | 4220.7 | 4220.7 | 4190.8 | 4162.8 |
| 5° | 4526.0 | 4492.1 | 4296.5 | 4170.8 | 3993.2 | 3861.5 | 3771.7 | 3701.8 | 3592.1 | 3622.0 | 3504.3 |
| 7.5° | 4362.4 | 4276.6 | 4017.2 | 3825.6 | 3580.1 | 3392.5 | 3201.0 | 3031.3 | 2867.7 | 2793.8 | 2833.8 |
| 10° | 4186.8 | 4037.1 | 3687.9 | 3384.5 | 3079.2 | 2736.0 | 2512.5 | 2241.1 | 2073.4 | 2063.5 | 2019.6 |
| 12.5° | 4001.2 | 3831.6 | 3406.5 | 2987.4 | 2586.3 | 2173.2 | 1832.0 | 1578.5 | 1464.8 | 1339.1 | 1363.0 |
| 15° | 3861.5 | 3610.1 | 3093.2 | 2588.3 | 2055.5 | 1638.4 | 1295.1 | 1099.6 | 991.8 | 961.9 | 951.9 |
| 17.5° | 3709.8 | 3440.4 | 2773.9 | 2163.2 | 1612.4 | 1179.4 | 931.9 | 838.2 | 796.2 | 796.2 | 790.3 |
| 20° | 3552.2 | 3248.8 | 2456.6 | 1768.1 | 1209.3 | 880.1 | 746.4 | 716.4 | 714.4 | 712.4 | 712.4 |
| 22.5° | 3448.4 | 3029.3 | 2169.2 | 1404.9 | 912.0 | 704.4 | 648.6 | 636.6 | 644.6 | 668.5 | 668.5 |
| 25° | 3338.6 | 2817.8 | 1851.9 | 1083.6 | 706.4 | 604.7 | 572.7 | 580.7 | 600.7 | 622.6 | 614.6 |
| 27.5° | 3226.9 | 2680.1 | 1552.6 | 850.1 | 578.7 | 528.8 | 516.9 | 534.8 | 556.8 | 576.7 | 570.7 |
| 30° | 3201.0 | 2532.4 | 1269.2 | 644.6 | 496.9 | 461.0 | 469.0 | 484.9 | 506.9 | 514.9 | 522.8 |
| 32.5° | 3240.9 | 2416.7 | 1039.7 | 528.8 | 433.0 | 423.1 | 423.1 | 431.1 | 445.0 | 463.0 | 457.0 |
| 35° | 3354.6 | 2350.8 | 822.2 | 459.0 | 397.1 | 387.1 | 385.2 | 393.1 | 401.1 | 407.1 | 401.1 |
| 37.5° | 3528.2 | 2298.9 | 672.5 | 407.1 | 373.2 | 357.2 | 353.2 | 351.2 | 359.2 | 361.2 | 365.2 |
| 40° | 3749.7 | 2326.9 | 570.7 | 375.2 | 349.2 | 331.3 | 319.3 | 319.3 | 319.3 | 325.3 | 327.3 |
| 42.5° | 3989.2 | 2364.8 | 492.9 | 357.2 | 327.3 | 305.3 | 293.4 | 289.4 | 293.4 | 301.3 | 299.3 |
| 45° | 4240.7 | 2438.6 | 443.0 | 329.3 | 307.3 | 279.4 | 263.4 | 259.4 | 269.4 | 285.4 | 283.4 |
| 47.5° | 4476.1 | 2544.4 | 405.1 | 311.3 | 287.4 | 261.4 | 241.5 | 237.5 | 255.4 | 277.4 | 279.4 |
| 50° | 4711.6 | 2728.0 | 391.1 | 297.3 | 273.4 | 243.5 | 225.5 | 221.5 | 241.5 | 269.4 | 275.4 |
| 52.5° | 4983.0 | 2925.6 | 381.2 | 279.4 | 257.4 | 229.5 | 209.5 | 205.5 | 227.5 | 263.4 | 265.4 |
| 55° | 5160.6 | 3093.2 | 373.2 | 247.5 | 227.5 | 207.5 | 191.6 | 189.6 | 213.5 | 245.5 | 253.4 |
| 57.5° | 4953.1 | 2859.7 | 345.2 | 215.5 | 193.6 | 183.6 | 169.6 | 169.6 | 189.6 | 219.5 | 225.5 |
| 60° | 3755.7 | 1881.9 | 245.5 | 173.6 | 163.6 | 157.7 | 151.7 | 151.7 | 167.6 | 189.6 | 191.6 |
| 62.5° | 2199.2 | 1013.8 | 157.7 | 139.7 | 139.7 | 133.7 | 123.7 | 123.7 | 139.7 | 151.7 | 153.7 |
| 65° | 652.6 | 325.3 | 127.7 | 119.7 | 117.7 | 107.8 | 97.8 | 95.8 | 107.8 | 113.7 | 111.8 |
| 67.5° | 187.6 | 149.7 | 105.8 | 99.8 | 97.8 | 81.8 | 75.8 | 73.8 | 75.8 | 71.8 | 69.8 |
| 70° | 111.8 | 101.8 | 81.8 | 83.8 | 73.8 | 59.9 | 53.9 | 51.9 | 47.9 | 41.9 | 37.9 |
| 72.5° | 61.9 | 61.9 | 59.9 | 63.9 | 51.9 | 39.9 | 33.9 | 27.9 | 22.0 | 18.0 | 16.0 |
| 75° | 37.9 | 39.9 | 41.9 | 43.9 | 33.9 | 25.9 | 22.0 | 14.0 | 8.0 | 4.0 | 4.0 |
| 77.5° | 25.9 | 27.9 | 29.9 | 31.9 | 27.9 | 23.9 | 18.0 | 10.0 | 2.0 | 0.0 | 0.0 |
| 80° | 20.0 | 22.0 | 25.9 | 27.9 | 29.9 | 31.9 | 23.9 | 10.0 | 2.0 | 0.0 | 0.0 |
| 82.5° | 22.0 | 23.9 | 29.9 | 27.9 | 27.9 | 27.9 | 22.0 | 10.0 | 2.0 | 0.0 | 0.0 |
| 85° | 4.0 | 6.0 | 10.0 | 10.0 | 14.0 | 18.0 | 14.0 | 4.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 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)