

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: P533948

Luminaire Tested: **GLAN-SA9B-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533948
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-SA9B-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 36989 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

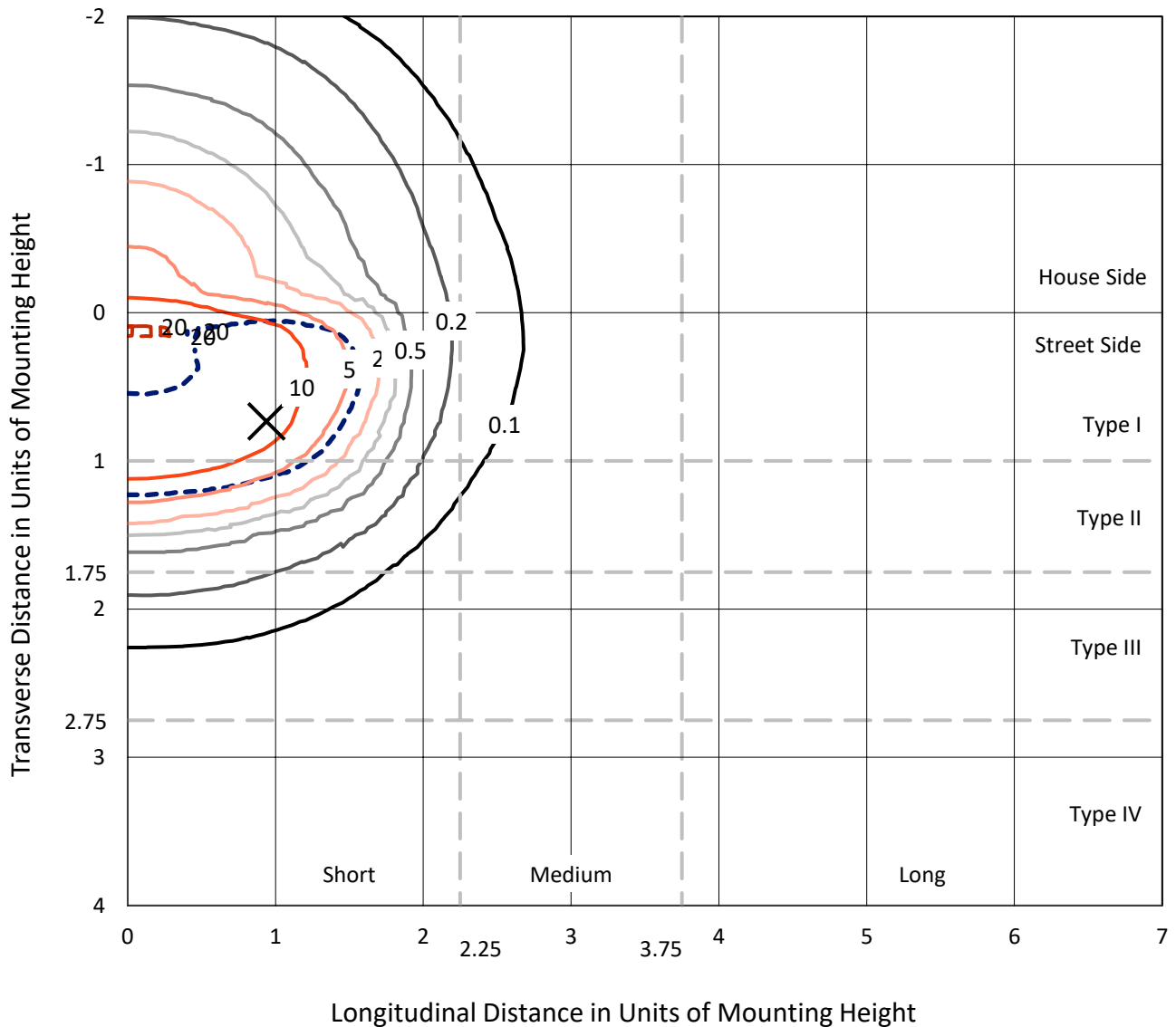
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

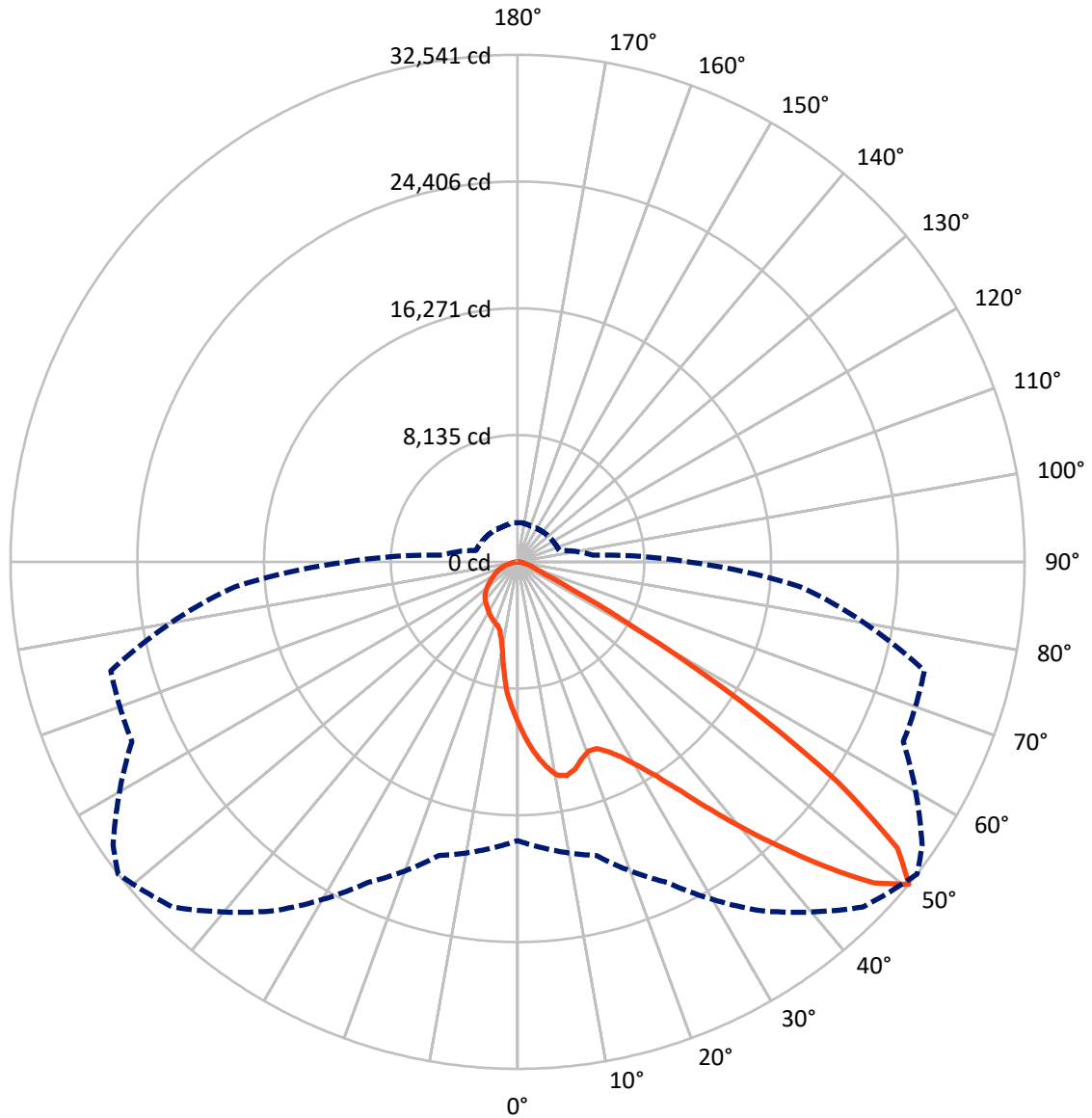
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 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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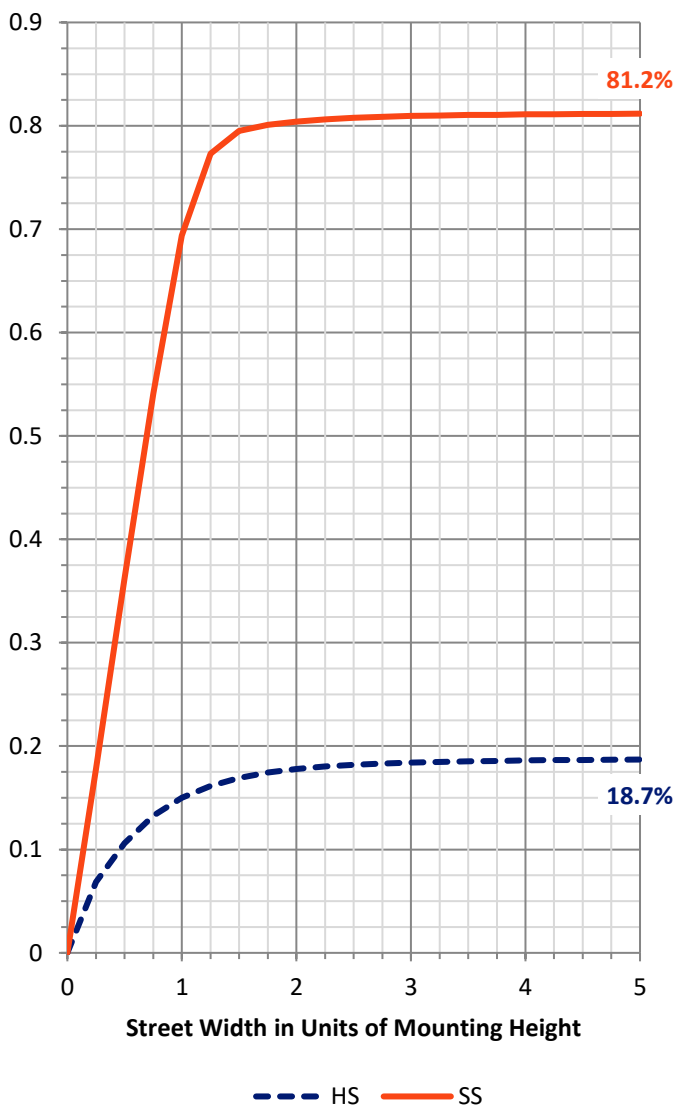
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6953.1 | 0.0 | 6953.1 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 30035.9 | 0.0 | 30035.9 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 36989.0 | 0.0 | 36989.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 961.0 | 2.6 |
| 10°-20° | 2575.8 | 7.0 |
| 20°-30° | 4338.8 | 11.7 |
| 30°-40° | 7280.8 | 19.7 |
| 40°-50° | 11137.8 | 30.1 |
| 50°-60° | 8120.4 | 22.0 |
| 60°-70° | 1807.2 | 4.9 |
| 70°-80° | 651.8 | 1.8 |
| 80°-90° | 115.4 | 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° | 36989.0 | 100.0 |
| 0°-180° | 36989.0 | 100.0 |

Coefficient of Utilization



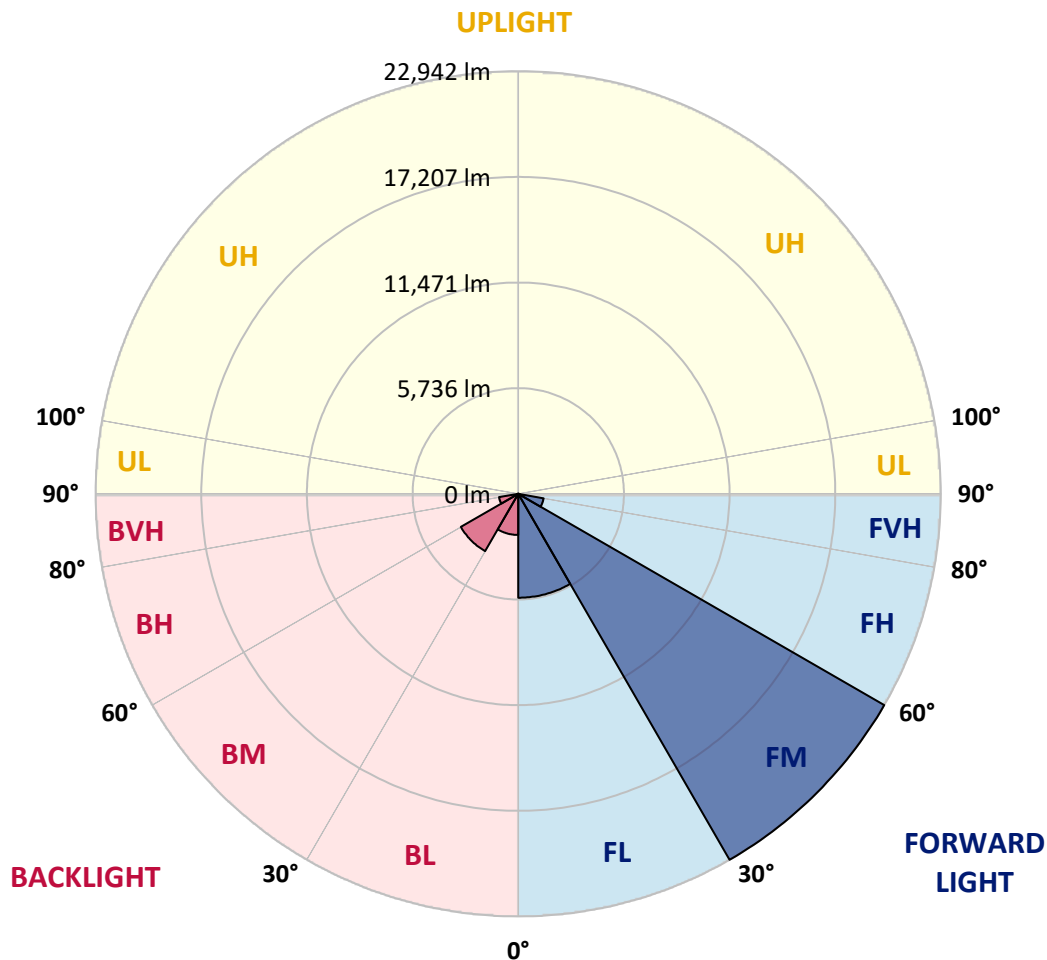
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5642.1 | 15.3 | | | |
| FM (30°-60°) | 22942.5 | 62.0 | | | |
| FH (60°-80°) | 1399.7 | 3.8 | | | G1/1800 |
| FVH (80°-90°) | 51.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2233.5 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 3596.6 | 9.7 | B3/5000 | | |
| BH (60°-80°) | 1059.3 | 2.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 63.7 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10426.6 | 10426.6 | 10426.6 | 10426.6 | 10426.6 | 10426.6 | 10426.6 | 10426.6 | 10426.6 | 10426.6 | 10426.6 |
| 2.5° | 12276.5 | 12040.3 | 12067.0 | 11897.6 | 11714.9 | 11661.4 | 11474.1 | 11295.8 | 11162.1 | 10876.8 | 10613.8 |
| 5° | 13417.7 | 13346.4 | 13239.4 | 13105.7 | 12967.5 | 12628.7 | 12437.0 | 12214.1 | 11723.8 | 11282.5 | 10845.6 |
| 7.5° | 13582.6 | 13569.3 | 13627.2 | 13627.2 | 13676.3 | 13547.0 | 13275.1 | 13119.0 | 12597.5 | 11879.8 | 11068.5 |
| 10° | 12423.6 | 12463.8 | 12744.6 | 13110.1 | 13618.3 | 13970.5 | 13925.9 | 13885.8 | 13315.2 | 12334.5 | 11331.5 |
| 12.5° | 11500.9 | 11411.7 | 11576.7 | 11888.7 | 12651.0 | 13502.4 | 14077.5 | 14081.9 | 13934.8 | 13061.1 | 11523.2 |
| 15° | 10979.3 | 11041.7 | 11086.3 | 11233.4 | 11808.5 | 12793.6 | 13805.5 | 14104.2 | 14750.6 | 13573.7 | 11826.3 |
| 17.5° | 11313.7 | 11104.2 | 11095.2 | 11130.9 | 11425.1 | 12165.1 | 13301.8 | 13814.4 | 15196.3 | 14233.5 | 12200.8 |
| 20° | 11750.5 | 11746.1 | 11621.3 | 11576.7 | 11572.2 | 12232.0 | 12971.9 | 13667.3 | 15432.6 | 15089.4 | 12579.7 |
| 22.5° | 12517.3 | 12517.3 | 12312.2 | 12214.1 | 12004.6 | 12544.0 | 13016.5 | 13489.0 | 15824.9 | 15677.8 | 12762.4 |
| 25° | 13801.1 | 13591.6 | 13239.4 | 12998.7 | 12878.3 | 13070.0 | 13489.0 | 13912.5 | 16168.1 | 16301.8 | 13141.3 |
| 27.5° | 14986.8 | 14657.0 | 14483.1 | 14068.5 | 13908.1 | 13796.6 | 14180.0 | 14607.9 | 16569.3 | 17273.6 | 13346.4 |
| 30° | 16333.1 | 16275.1 | 15963.1 | 15428.1 | 15031.4 | 14826.3 | 15178.5 | 15602.0 | 17304.8 | 18267.7 | 13818.9 |
| 32.5° | 18740.2 | 18214.2 | 17790.7 | 17135.4 | 16489.1 | 16052.2 | 16399.9 | 16680.8 | 18526.2 | 19306.3 | 14336.0 |
| 35° | 21339.1 | 21169.7 | 20438.6 | 19257.3 | 18267.7 | 17875.4 | 18080.5 | 18290.0 | 19948.3 | 20893.3 | 15205.3 |
| 37.5° | 23893.3 | 23661.5 | 23059.7 | 22065.7 | 20862.1 | 20064.2 | 20211.3 | 20456.4 | 21544.1 | 23033.0 | 16266.2 |
| 40° | 25729.9 | 25444.6 | 25141.5 | 24994.4 | 23799.7 | 22707.6 | 22622.9 | 22685.3 | 23701.6 | 25039.0 | 17443.0 |
| 42.5° | 25863.6 | 26215.8 | 26309.4 | 26902.3 | 26621.4 | 25725.4 | 25203.9 | 25217.3 | 25761.1 | 27022.6 | 18633.2 |
| 45° | 25582.8 | 25257.4 | 25948.3 | 27566.5 | 28493.7 | 28912.7 | 28034.5 | 27923.1 | 27036.0 | 28172.7 | 19226.1 |
| 47.5° | 22636.3 | 22725.4 | 23893.3 | 26452.1 | 29131.1 | 31003.4 | 30798.3 | 30428.3 | 27718.0 | 28132.6 | 19132.5 |
| 50° | 17893.3 | 18432.6 | 19515.9 | 22703.1 | 27348.1 | 31333.3 | 32541.3 | 31685.4 | 27312.4 | 27027.1 | 18178.5 |
| 52.5° | 11915.5 | 12138.3 | 12851.6 | 16966.0 | 21989.9 | 28007.8 | 30535.3 | 30731.5 | 26937.9 | 25578.3 | 16970.5 |
| 55° | 5304.7 | 5286.8 | 6289.8 | 8861.9 | 13796.6 | 21312.3 | 24949.8 | 26144.5 | 25498.1 | 24102.8 | 15793.7 |
| 57.5° | 2246.7 | 2322.5 | 2732.6 | 3829.2 | 6784.6 | 12860.5 | 16903.6 | 17951.2 | 19609.5 | 19792.2 | 12116.1 |
| 60° | 1520.1 | 1529.0 | 1640.4 | 1916.8 | 2839.6 | 6040.2 | 8866.4 | 10123.5 | 11309.2 | 11229.0 | 6428.0 |
| 62.5° | 1194.7 | 1225.9 | 1310.6 | 1422.0 | 1685.0 | 2741.5 | 3967.4 | 4667.2 | 4743.0 | 3989.7 | 2438.4 |
| 65° | 1020.8 | 1025.3 | 1110.0 | 1203.6 | 1319.5 | 1595.9 | 1912.4 | 1948.0 | 1970.3 | 1899.0 | 1792.0 |
| 67.5° | 842.5 | 851.4 | 918.3 | 1025.3 | 1132.3 | 1221.4 | 1310.6 | 1355.1 | 1457.7 | 1658.3 | 1631.5 |
| 70° | 668.7 | 682.0 | 740.0 | 829.1 | 927.2 | 980.7 | 1092.1 | 1132.3 | 1225.9 | 1381.9 | 1444.3 |
| 72.5° | 508.2 | 512.6 | 561.7 | 624.1 | 713.2 | 766.7 | 860.3 | 904.9 | 967.3 | 1101.1 | 1159.0 |
| 75° | 365.5 | 378.9 | 414.6 | 445.8 | 459.1 | 494.8 | 584.0 | 633.0 | 722.1 | 780.1 | 784.6 |
| 77.5° | 191.7 | 200.6 | 209.5 | 209.5 | 254.1 | 321.0 | 378.9 | 405.7 | 468.1 | 512.6 | 490.3 |
| 80° | 75.8 | 80.2 | 102.5 | 138.2 | 178.3 | 231.8 | 271.9 | 285.3 | 338.8 | 365.5 | 378.9 |
| 82.5° | 44.6 | 49.0 | 66.9 | 98.1 | 129.3 | 164.9 | 196.1 | 209.5 | 245.2 | 276.4 | 285.3 |
| 85° | 22.3 | 26.7 | 40.1 | 62.4 | 84.7 | 102.5 | 98.1 | 93.6 | 93.6 | 89.2 | 93.6 |
| 87.5° | 8.9 | 8.9 | 13.4 | 13.4 | 13.4 | 17.8 | 22.3 | 22.3 | 22.3 | 26.7 | 26.7 |
| 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-SA9B-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10426.6 | 10426.6 | 10426.6 | 10426.6 | 10426.6 | 10426.6 | 10426.6 | 10426.6 | 10426.6 | 10426.6 | 10426.6 |
| 2.5° | 10440.0 | 10261.7 | 10096.7 | 9793.6 | 9463.7 | 9370.1 | 8986.7 | 8848.6 | 8750.5 | 8634.6 | 8598.9 |
| 5° | 10493.5 | 10257.2 | 9726.7 | 9116.0 | 8630.1 | 8006.0 | 7595.9 | 7154.6 | 6833.7 | 6753.4 | 6731.1 |
| 7.5° | 10604.9 | 10199.2 | 9285.4 | 8362.7 | 7368.6 | 6521.6 | 5875.3 | 5527.6 | 5220.0 | 5202.1 | 5170.9 |
| 10° | 10729.7 | 10025.4 | 8804.0 | 7355.2 | 6084.8 | 5300.2 | 4912.4 | 4760.8 | 4685.1 | 4667.2 | 4658.3 |
| 12.5° | 10832.2 | 9989.7 | 8264.6 | 6374.5 | 5175.4 | 4702.9 | 4587.0 | 4573.6 | 4604.8 | 4613.7 | 4631.6 |
| 15° | 10876.8 | 9847.1 | 7613.8 | 5496.4 | 4609.3 | 4435.4 | 4484.5 | 4537.9 | 4560.2 | 4618.2 | 4573.6 |
| 17.5° | 10961.5 | 9664.3 | 6811.4 | 4801.0 | 4292.8 | 4324.0 | 4408.7 | 4471.1 | 4506.7 | 4546.9 | 4488.9 |
| 20° | 11006.1 | 9499.4 | 6058.0 | 4386.4 | 4181.3 | 4239.3 | 4355.2 | 4404.2 | 4448.8 | 4466.6 | 4399.8 |
| 22.5° | 10966.0 | 9160.6 | 5393.8 | 4052.1 | 4074.3 | 4150.1 | 4252.7 | 4306.1 | 4279.4 | 4208.1 | 4168.0 |
| 25° | 10859.0 | 8683.6 | 4702.9 | 3838.1 | 3922.8 | 4056.5 | 4136.8 | 4096.6 | 4047.6 | 4007.5 | 3994.1 |
| 27.5° | 10854.5 | 8099.7 | 4203.6 | 3641.9 | 3793.5 | 3976.3 | 3949.5 | 3913.9 | 3936.2 | 3905.0 | 3869.3 |
| 30° | 10876.8 | 7533.5 | 3793.5 | 3530.5 | 3699.9 | 3789.1 | 3820.3 | 3784.6 | 3811.3 | 3753.4 | 3771.2 |
| 32.5° | 10760.9 | 6980.8 | 3526.0 | 3401.2 | 3588.5 | 3584.0 | 3686.5 | 3713.3 | 3650.9 | 3530.5 | 3548.3 |
| 35° | 10809.9 | 6535.0 | 3298.7 | 3343.3 | 3463.6 | 3463.6 | 3543.9 | 3512.7 | 3347.7 | 3276.4 | 3294.2 |
| 37.5° | 11148.7 | 6098.1 | 3187.3 | 3263.0 | 3343.3 | 3378.9 | 3352.2 | 3218.5 | 3178.3 | 3178.3 | 3187.3 |
| 40° | 11469.7 | 5723.7 | 3120.4 | 3245.2 | 3231.8 | 3254.1 | 3058.0 | 3071.4 | 3071.4 | 3075.8 | 3053.5 |
| 42.5° | 11755.0 | 5469.6 | 3066.9 | 3138.2 | 3160.5 | 3044.6 | 2924.3 | 2910.9 | 2942.1 | 2937.6 | 2919.8 |
| 45° | 11857.5 | 5260.1 | 2991.1 | 3017.9 | 3035.7 | 2844.0 | 2786.1 | 2759.3 | 2795.0 | 2808.4 | 2826.2 |
| 47.5° | 11465.2 | 5086.2 | 2906.4 | 2852.9 | 2817.3 | 2692.5 | 2616.7 | 2567.6 | 2612.2 | 2688.0 | 2705.8 |
| 50° | 10961.5 | 4858.9 | 2772.7 | 2670.2 | 2594.4 | 2540.9 | 2487.4 | 2438.4 | 2469.6 | 2523.1 | 2509.7 |
| 52.5° | 10217.1 | 4502.3 | 2603.3 | 2496.3 | 2367.0 | 2380.4 | 2331.4 | 2304.6 | 2322.5 | 2322.5 | 2309.1 |
| 55° | 9156.1 | 3699.9 | 2318.0 | 2242.2 | 2135.2 | 2170.9 | 2179.8 | 2144.2 | 2108.5 | 2139.7 | 2113.0 |
| 57.5° | 6249.7 | 2612.2 | 2068.4 | 2068.4 | 1961.4 | 2010.4 | 2006.0 | 1921.3 | 1836.6 | 1845.5 | 1827.7 |
| 60° | 3615.2 | 2081.8 | 1907.9 | 1890.1 | 1778.6 | 1818.7 | 1827.7 | 1769.7 | 1640.4 | 1649.4 | 1631.5 |
| 62.5° | 2055.0 | 1778.6 | 1667.2 | 1640.4 | 1618.1 | 1653.8 | 1653.8 | 1578.0 | 1466.6 | 1475.5 | 1457.7 |
| 65° | 1747.4 | 1649.4 | 1488.9 | 1484.4 | 1475.5 | 1484.4 | 1448.8 | 1368.5 | 1270.4 | 1230.3 | 1234.8 |
| 67.5° | 1586.9 | 1524.5 | 1368.5 | 1328.4 | 1301.7 | 1297.2 | 1230.3 | 1154.5 | 1110.0 | 1074.3 | 1069.9 |
| 70° | 1390.8 | 1341.8 | 1225.9 | 1172.4 | 1145.6 | 1083.2 | 1016.4 | 967.3 | 904.9 | 887.1 | 904.9 |
| 72.5° | 1101.1 | 1096.6 | 1052.0 | 994.1 | 936.1 | 887.1 | 829.1 | 762.3 | 704.3 | 690.9 | 659.7 |
| 75° | 762.3 | 771.2 | 780.1 | 771.2 | 722.1 | 659.7 | 592.9 | 539.4 | 468.1 | 427.9 | 419.0 |
| 77.5° | 499.3 | 512.6 | 526.0 | 508.2 | 477.0 | 419.0 | 374.4 | 307.6 | 254.1 | 222.9 | 218.4 |
| 80° | 365.5 | 383.4 | 392.3 | 378.9 | 343.2 | 298.7 | 249.6 | 196.1 | 156.0 | 129.3 | 129.3 |
| 82.5° | 280.8 | 298.7 | 307.6 | 285.3 | 249.6 | 214.0 | 178.3 | 138.2 | 107.0 | 84.7 | 80.2 |
| 85° | 98.1 | 93.6 | 111.4 | 115.9 | 138.2 | 129.3 | 107.0 | 80.2 | 62.4 | 44.6 | 40.1 |
| 87.5° | 26.7 | 26.7 | 31.2 | 31.2 | 26.7 | 22.3 | 22.3 | 22.3 | 17.8 | 13.4 | 13.4 |
| 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)