

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: P528815

Luminaire Tested: **GLAN-SA3D-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10959 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

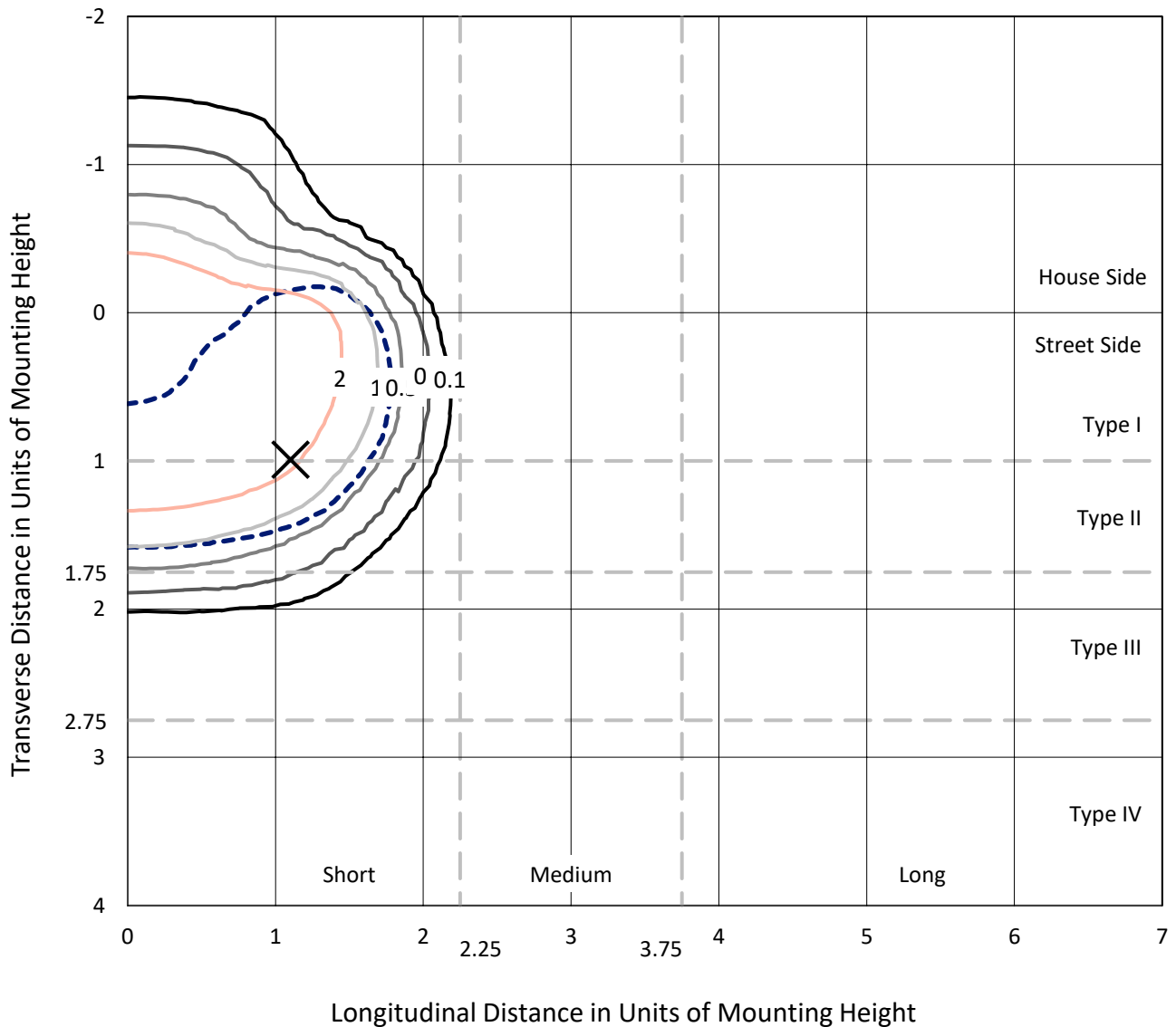
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

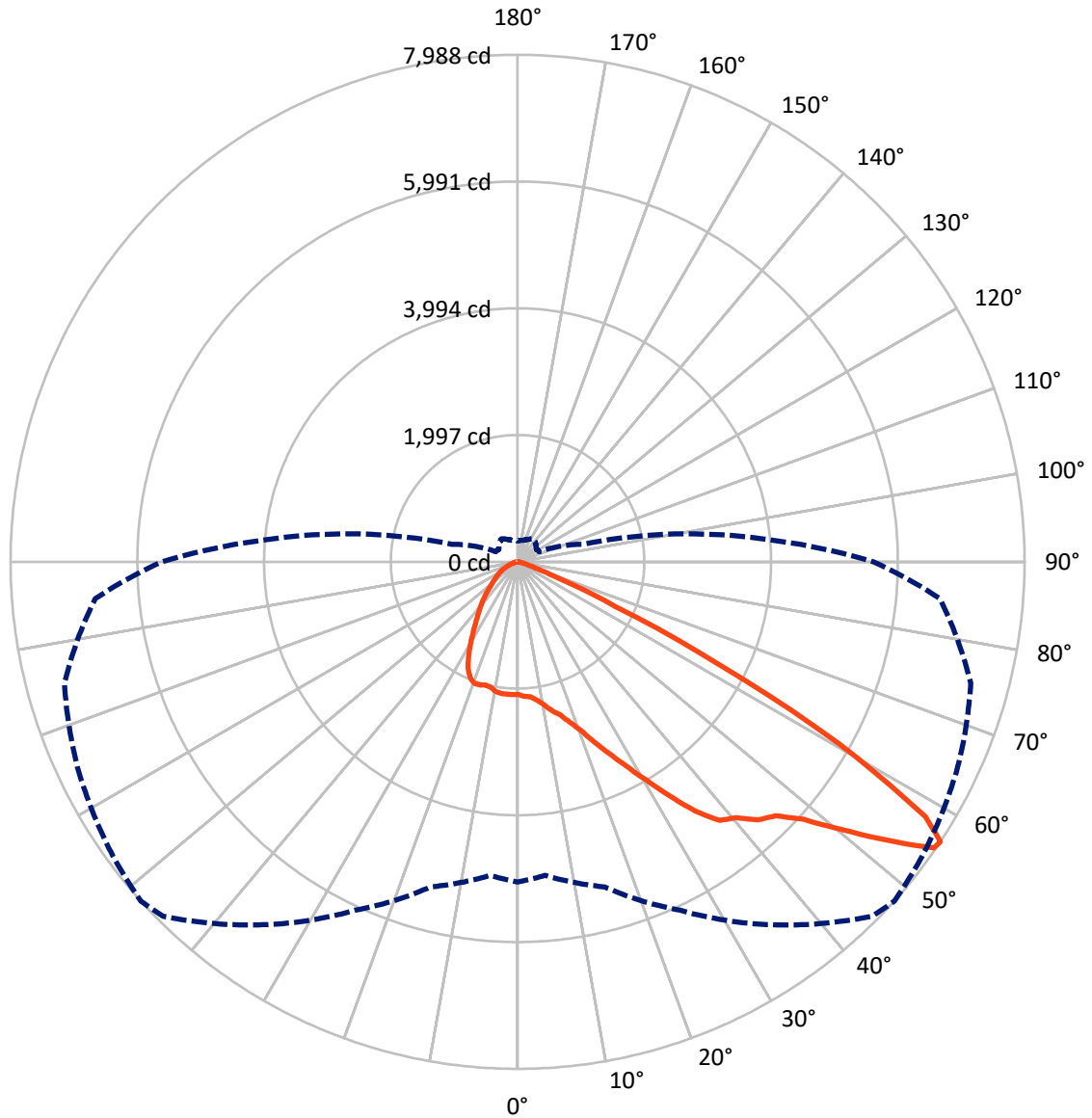
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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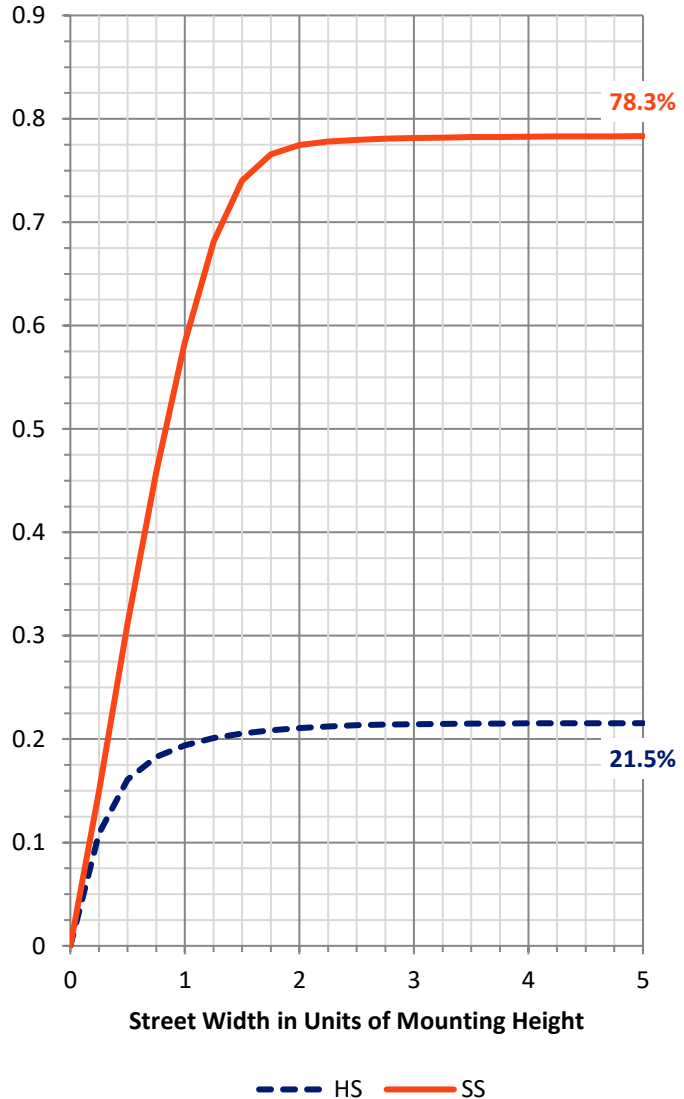
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2383.4 | 0.0 | 2383.4 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 8575.6 | 0.0 | 8575.6 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 10959.0 | 0.0 | 10959.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 203.9 | 1.9 |
| 10°-20° | 651.6 | 5.9 |
| 20°-30° | 1181.9 | 10.8 |
| 30°-40° | 1856.6 | 16.9 |
| 40°-50° | 2708.4 | 24.7 |
| 50°-60° | 3263.1 | 29.8 |
| 60°-70° | 955.4 | 8.7 |
| 70°-80° | 121.2 | 1.1 |
| 80°-90° | 17.0 | 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° | 10959.0 | 100.0 |
| 0°-180° | 10959.0 | 100.0 |

Coefficient of Utilization

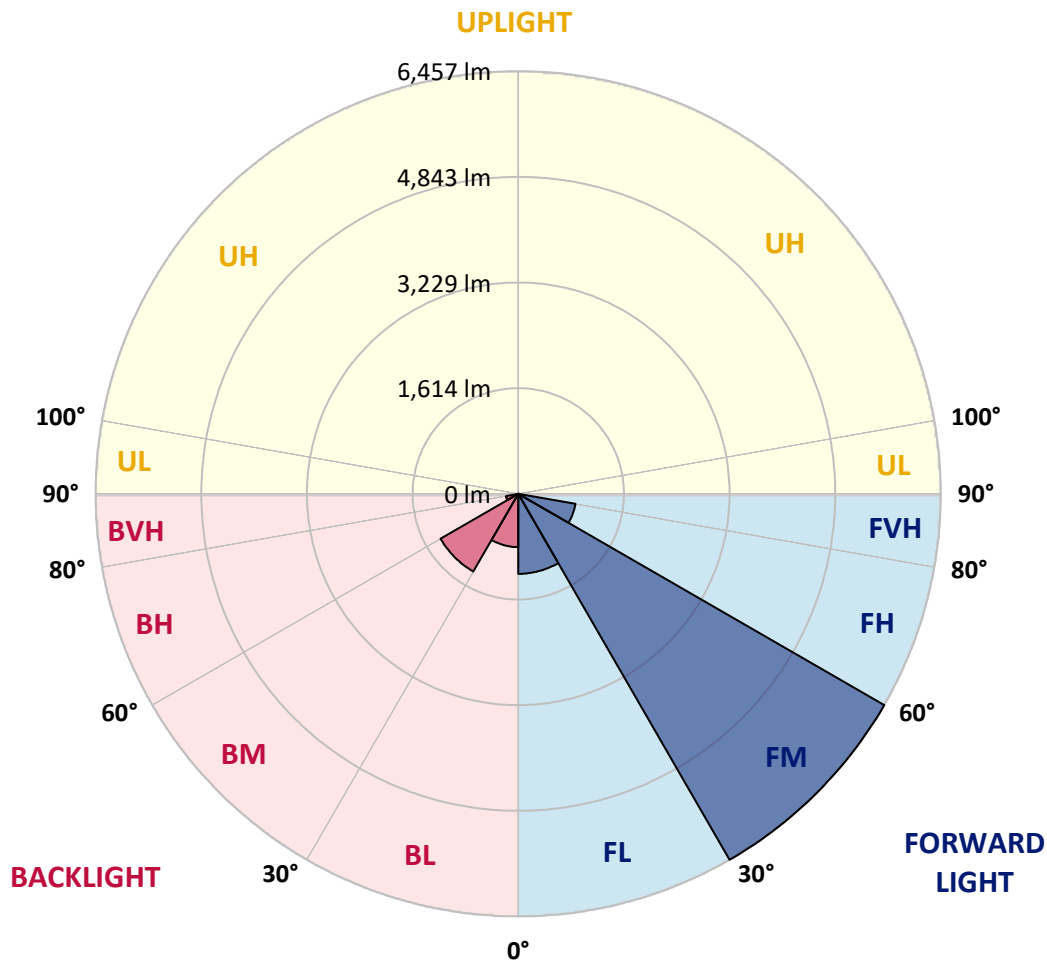


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1222.8 | 11.2 | | | |
| FM (30°-60°) | 6457.1 | 58.9 | | | |
| FH (60°-80°) | 887.2 | 8.1 | | | G1/1800 |
| FVH (80°-90°) | 8.5 | 0.1 | | | G0/10 |
| BL (0°-30°) | 814.6 | 7.4 | B2/1000 | | |
| BM (30°-60°) | 1370.9 | 12.5 | B2/2500 | | |
| BH (60°-80°) | 189.4 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 8.5 | 0.1 | | | 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° | 48° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2093.2 | 2093.2 | 2093.2 | 2093.2 | 2093.2 | 2093.2 | 2093.2 | 2093.2 | 2093.2 | 2093.2 | 2093.2 |
| 2.5° | 2131.1 | 2121.1 | 2121.1 | 2105.1 | 2123.1 | 2115.1 | 2121.1 | 2101.2 | 2121.1 | 2091.2 | 2115.1 |
| 5° | 2141.1 | 2143.1 | 2135.1 | 2145.1 | 2145.1 | 2157.0 | 2137.1 | 2155.0 | 2165.0 | 2143.1 | 2133.1 |
| 7.5° | 2192.9 | 2196.9 | 2194.9 | 2187.0 | 2202.9 | 2200.9 | 2198.9 | 2185.0 | 2189.0 | 2181.0 | 2169.0 |
| 10° | 2294.7 | 2292.7 | 2302.7 | 2282.7 | 2270.8 | 2284.7 | 2288.7 | 2266.8 | 2250.8 | 2244.8 | 2206.9 |
| 12.5° | 2442.4 | 2418.4 | 2404.5 | 2384.5 | 2390.5 | 2370.5 | 2406.5 | 2368.5 | 2360.6 | 2324.6 | 2286.7 |
| 15° | 2562.1 | 2558.1 | 2560.1 | 2528.2 | 2492.3 | 2500.2 | 2500.2 | 2480.3 | 2468.3 | 2424.4 | 2370.5 |
| 17.5° | 2807.5 | 2723.7 | 2741.7 | 2701.8 | 2671.8 | 2669.8 | 2651.9 | 2655.9 | 2623.9 | 2532.2 | 2450.4 |
| 20° | 2999.1 | 2963.2 | 2935.2 | 2867.4 | 2821.5 | 2835.5 | 2827.5 | 2807.5 | 2797.5 | 2677.8 | 2562.1 |
| 22.5° | 3170.7 | 3182.7 | 3136.8 | 3118.8 | 3055.0 | 3060.9 | 3076.9 | 3058.9 | 2983.1 | 2859.4 | 2687.8 |
| 25° | 3412.1 | 3398.2 | 3336.3 | 3314.4 | 3254.5 | 3276.4 | 3338.3 | 3324.3 | 3276.4 | 3053.0 | 2785.6 |
| 27.5° | 3697.5 | 3649.6 | 3661.6 | 3561.8 | 3503.9 | 3565.8 | 3639.6 | 3709.4 | 3573.8 | 3280.4 | 2901.3 |
| 30° | 3899.0 | 3849.1 | 3845.1 | 3841.1 | 3827.2 | 3899.0 | 3984.8 | 4048.7 | 3938.9 | 3507.9 | 3092.9 |
| 32.5° | 3998.8 | 4010.8 | 4044.7 | 4032.7 | 4154.4 | 4302.1 | 4391.9 | 4483.7 | 4346.0 | 3879.1 | 3346.3 |
| 35° | 4264.2 | 4188.3 | 4264.2 | 4272.1 | 4397.9 | 4711.1 | 4824.9 | 5044.4 | 5010.4 | 4403.8 | 3655.6 |
| 37.5° | 4419.8 | 4413.8 | 4423.8 | 4499.6 | 4621.3 | 5008.5 | 5170.1 | 5339.7 | 5275.8 | 4719.1 | 4040.7 |
| 40° | 4677.2 | 4693.2 | 4691.2 | 4749.1 | 4882.7 | 5231.9 | 5297.8 | 5435.5 | 5441.5 | 5156.1 | 4607.4 |
| 42.5° | 5090.3 | 5026.4 | 4984.5 | 5044.4 | 5231.9 | 5425.5 | 5557.2 | 5529.3 | 5726.8 | 5686.9 | 5335.7 |
| 45° | 5461.4 | 5499.3 | 5437.5 | 5537.2 | 5605.1 | 5708.8 | 5704.8 | 5764.7 | 6016.1 | 6205.7 | 5884.4 |
| 47.5° | 5808.6 | 5832.6 | 5862.5 | 5930.3 | 6078.0 | 6093.9 | 6060.0 | 6034.1 | 6381.3 | 6576.8 | 6309.5 |
| 50° | 6016.1 | 6038.1 | 6177.8 | 6299.5 | 6574.8 | 6610.8 | 6630.7 | 6564.9 | 6800.3 | 6822.3 | 6710.5 |
| 52.5° | 5960.3 | 5984.2 | 6179.8 | 6580.8 | 7019.8 | 7349.1 | 7289.2 | 7177.5 | 7163.5 | 7249.3 | 7081.7 |
| 55° | 5465.4 | 5443.4 | 5712.8 | 6337.4 | 7159.5 | 7949.7 | 7957.7 | 7839.9 | 7614.4 | 7556.6 | 7025.8 |
| 56° | 5044.4 | 4958.6 | 5301.8 | 6056.0 | 6979.9 | 7897.8 | 7987.6 | 7861.9 | 7650.4 | 7391.0 | 6680.6 |
| 57.5° | 4132.5 | 4214.3 | 4555.5 | 5180.1 | 6359.3 | 7524.7 | 7576.5 | 7546.6 | 7387.0 | 6952.0 | 5878.4 |
| 60° | 2278.7 | 2422.4 | 2723.7 | 3488.0 | 4527.6 | 5774.7 | 5816.6 | 6060.0 | 6090.0 | 5323.7 | 4044.7 |
| 62.5° | 967.8 | 951.8 | 1265.1 | 1827.8 | 2578.1 | 3486.0 | 3563.8 | 3813.2 | 3859.1 | 3068.9 | 2029.3 |
| 65° | 393.1 | 415.0 | 572.7 | 919.9 | 1362.9 | 1588.3 | 1698.1 | 1779.9 | 1931.5 | 1267.1 | 748.3 |
| 67.5° | 259.4 | 257.4 | 337.2 | 524.8 | 734.3 | 708.4 | 708.4 | 748.3 | 692.4 | 516.8 | 323.3 |
| 70° | 185.6 | 191.6 | 241.4 | 363.2 | 456.9 | 339.2 | 325.3 | 311.3 | 353.2 | 341.2 | 261.4 |
| 72.5° | 121.7 | 129.7 | 161.6 | 217.5 | 237.5 | 185.6 | 185.6 | 223.5 | 291.3 | 275.4 | 213.5 |
| 75° | 79.8 | 81.8 | 99.8 | 125.7 | 117.7 | 95.8 | 105.8 | 149.7 | 211.5 | 203.5 | 151.7 |
| 77.5° | 53.9 | 55.9 | 67.8 | 81.8 | 65.8 | 53.9 | 57.9 | 75.8 | 103.8 | 103.8 | 79.8 |
| 80° | 20.0 | 21.9 | 27.9 | 25.9 | 29.9 | 37.9 | 41.9 | 51.9 | 61.9 | 61.9 | 53.9 |
| 82.5° | 0.0 | 2.0 | 6.0 | 14.0 | 21.9 | 29.9 | 33.9 | 39.9 | 45.9 | 51.9 | 49.9 |
| 85° | 0.0 | 2.0 | 6.0 | 10.0 | 16.0 | 18.0 | 20.0 | 14.0 | 12.0 | 12.0 | 10.0 |
| 87.5° | 0.0 | 0.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 4.0 | 2.0 | 2.0 |
| 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-T3-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2093.2 | 2093.2 | 2093.2 | 2093.2 | 2093.2 | 2093.2 | 2093.2 | 2093.2 | 2093.2 | 2093.2 | 2093.2 |
| 2.5° | 2093.2 | 2091.2 | 2091.2 | 2085.2 | 2097.2 | 2091.2 | 2095.2 | 2093.2 | 2067.2 | 2087.2 | 2073.2 |
| 5° | 2115.1 | 2129.1 | 2107.1 | 2103.2 | 2087.2 | 2093.2 | 2093.2 | 2073.2 | 2091.2 | 2089.2 | 2085.2 |
| 7.5° | 2171.0 | 2147.0 | 2123.1 | 2099.2 | 2095.2 | 2089.2 | 2067.2 | 2059.3 | 2073.2 | 2057.3 | 2081.2 |
| 10° | 2194.9 | 2198.9 | 2163.0 | 2131.1 | 2101.2 | 2059.3 | 2029.3 | 2011.4 | 1989.4 | 2013.4 | 2027.3 |
| 12.5° | 2304.7 | 2264.8 | 2202.9 | 2153.0 | 2051.3 | 2009.4 | 1979.4 | 1971.5 | 2009.4 | 2017.3 | 2003.4 |
| 15° | 2342.6 | 2336.6 | 2256.8 | 2145.1 | 2039.3 | 1989.4 | 1995.4 | 1979.4 | 1983.4 | 1963.5 | 1967.5 |
| 17.5° | 2420.4 | 2352.6 | 2258.8 | 2119.1 | 2037.3 | 2025.3 | 1989.4 | 1925.6 | 1889.6 | 1873.7 | 1887.6 |
| 20° | 2506.2 | 2440.4 | 2304.7 | 2129.1 | 2055.3 | 2023.3 | 1905.6 | 1827.8 | 1754.0 | 1714.0 | 1716.0 |
| 22.5° | 2582.0 | 2500.2 | 2284.7 | 2133.1 | 2071.2 | 1939.5 | 1797.9 | 1644.2 | 1552.4 | 1490.6 | 1492.6 |
| 25° | 2673.8 | 2558.1 | 2292.7 | 2141.1 | 2029.3 | 1805.8 | 1602.3 | 1452.7 | 1342.9 | 1301.0 | 1315.0 |
| 27.5° | 2725.7 | 2594.0 | 2336.6 | 2159.0 | 1919.6 | 1616.3 | 1396.8 | 1257.1 | 1193.2 | 1173.3 | 1171.3 |
| 30° | 2881.4 | 2673.8 | 2390.5 | 2123.1 | 1736.0 | 1412.7 | 1209.2 | 1123.4 | 1061.6 | 1043.6 | 1047.6 |
| 32.5° | 3112.8 | 2819.5 | 2460.3 | 2029.3 | 1548.4 | 1231.2 | 1087.5 | 1023.6 | 965.8 | 931.9 | 927.9 |
| 35° | 3306.4 | 3068.9 | 2534.2 | 1883.7 | 1330.9 | 1091.5 | 1001.7 | 921.9 | 834.1 | 796.2 | 786.2 |
| 37.5° | 3675.5 | 3350.3 | 2518.2 | 1664.2 | 1123.4 | 987.7 | 909.9 | 812.1 | 736.3 | 684.4 | 678.4 |
| 40° | 4166.4 | 3679.5 | 2440.4 | 1396.8 | 969.8 | 895.9 | 812.1 | 718.3 | 624.6 | 580.7 | 576.7 |
| 42.5° | 4763.0 | 4082.6 | 2298.7 | 1125.4 | 816.1 | 804.1 | 728.3 | 620.6 | 536.8 | 504.8 | 506.8 |
| 45° | 5247.9 | 4427.8 | 2155.0 | 903.9 | 702.4 | 714.4 | 648.5 | 546.7 | 488.9 | 462.9 | 462.9 |
| 47.5° | 5678.9 | 4661.3 | 1999.4 | 746.3 | 596.6 | 624.6 | 566.7 | 506.8 | 456.9 | 437.0 | 433.0 |
| 50° | 6093.9 | 4898.7 | 1843.7 | 604.6 | 508.8 | 536.8 | 530.8 | 482.9 | 443.0 | 419.0 | 421.0 |
| 52.5° | 6353.4 | 4936.6 | 1646.2 | 494.9 | 445.0 | 476.9 | 496.9 | 453.0 | 409.1 | 395.1 | 391.1 |
| 55° | 6036.1 | 4447.7 | 1277.1 | 407.1 | 377.1 | 419.0 | 456.9 | 407.1 | 373.1 | 349.2 | 347.2 |
| 56° | 5609.1 | 3976.8 | 1067.5 | 375.1 | 357.2 | 403.1 | 443.0 | 389.1 | 351.2 | 337.2 | 327.2 |
| 57.5° | 4749.1 | 3254.5 | 788.2 | 333.2 | 331.2 | 375.1 | 421.0 | 371.1 | 327.2 | 315.3 | 315.3 |
| 60° | 2961.2 | 1831.8 | 476.9 | 279.4 | 287.3 | 333.2 | 379.1 | 331.2 | 291.3 | 291.3 | 297.3 |
| 62.5° | 1348.9 | 762.2 | 289.3 | 237.5 | 247.4 | 287.3 | 337.2 | 299.3 | 277.4 | 299.3 | 303.3 |
| 65° | 458.9 | 329.2 | 209.5 | 189.6 | 195.5 | 237.5 | 289.3 | 303.3 | 301.3 | 315.3 | 323.3 |
| 67.5° | 257.4 | 211.5 | 175.6 | 157.6 | 153.6 | 175.6 | 237.5 | 303.3 | 291.3 | 285.3 | 289.3 |
| 70° | 217.5 | 179.6 | 155.6 | 139.7 | 133.7 | 141.7 | 183.6 | 229.5 | 205.5 | 199.5 | 195.5 |
| 72.5° | 175.6 | 149.7 | 135.7 | 125.7 | 107.8 | 91.8 | 83.8 | 87.8 | 97.8 | 103.8 | 113.7 |
| 75° | 123.7 | 113.7 | 113.7 | 101.8 | 77.8 | 57.9 | 45.9 | 37.9 | 25.9 | 18.0 | 20.0 |
| 77.5° | 69.8 | 69.8 | 71.8 | 61.9 | 49.9 | 37.9 | 27.9 | 20.0 | 10.0 | 4.0 | 2.0 |
| 80° | 47.9 | 51.9 | 55.9 | 49.9 | 41.9 | 33.9 | 23.9 | 14.0 | 6.0 | 0.0 | 0.0 |
| 82.5° | 47.9 | 53.9 | 57.9 | 49.9 | 41.9 | 31.9 | 23.9 | 14.0 | 6.0 | 2.0 | 0.0 |
| 85° | 10.0 | 12.0 | 14.0 | 16.0 | 23.9 | 23.9 | 18.0 | 12.0 | 6.0 | 2.0 | 0.0 |
| 87.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 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)