

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: P532560

Luminaire Tested: **GLAN-SA7D-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36505 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

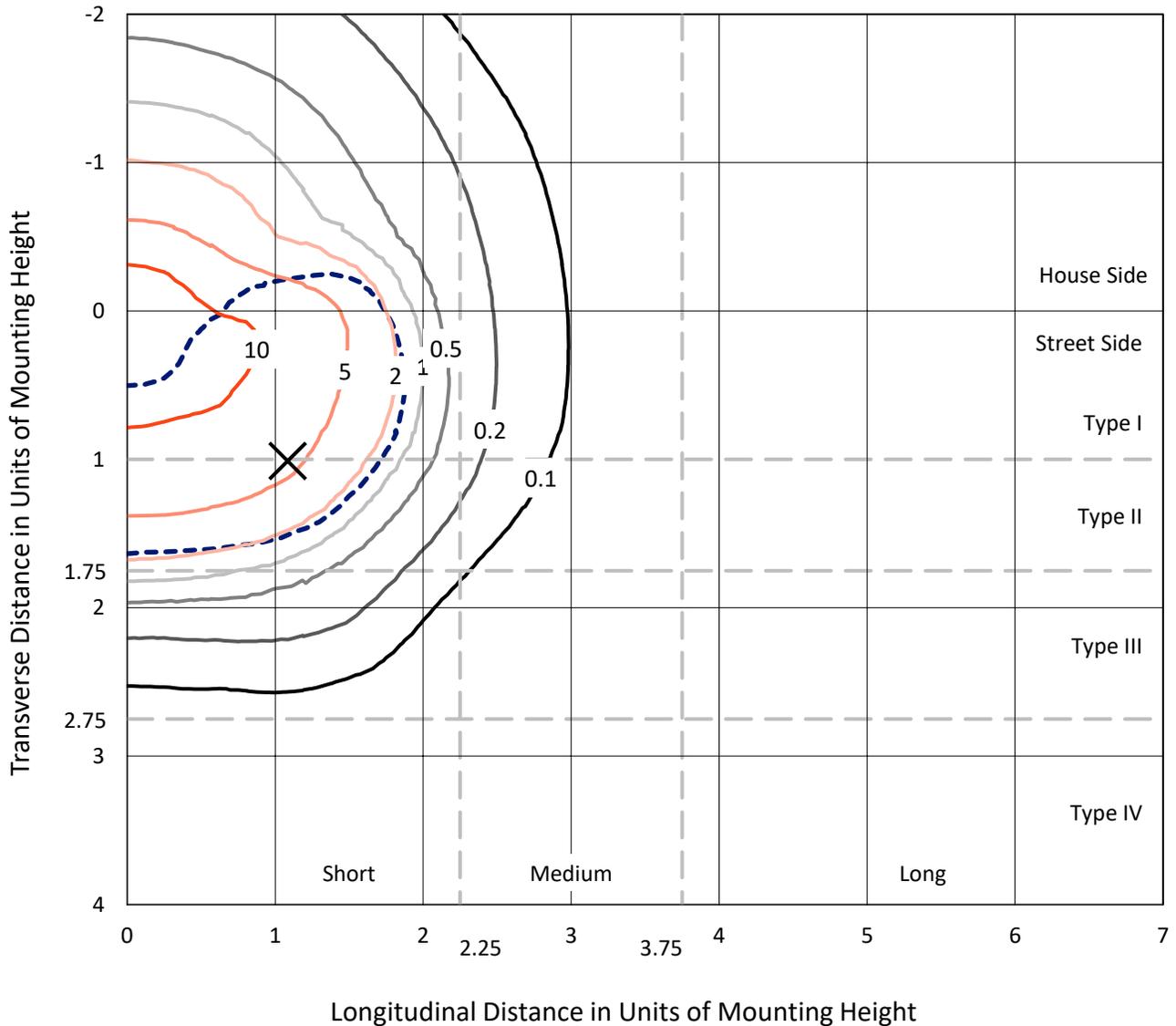
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

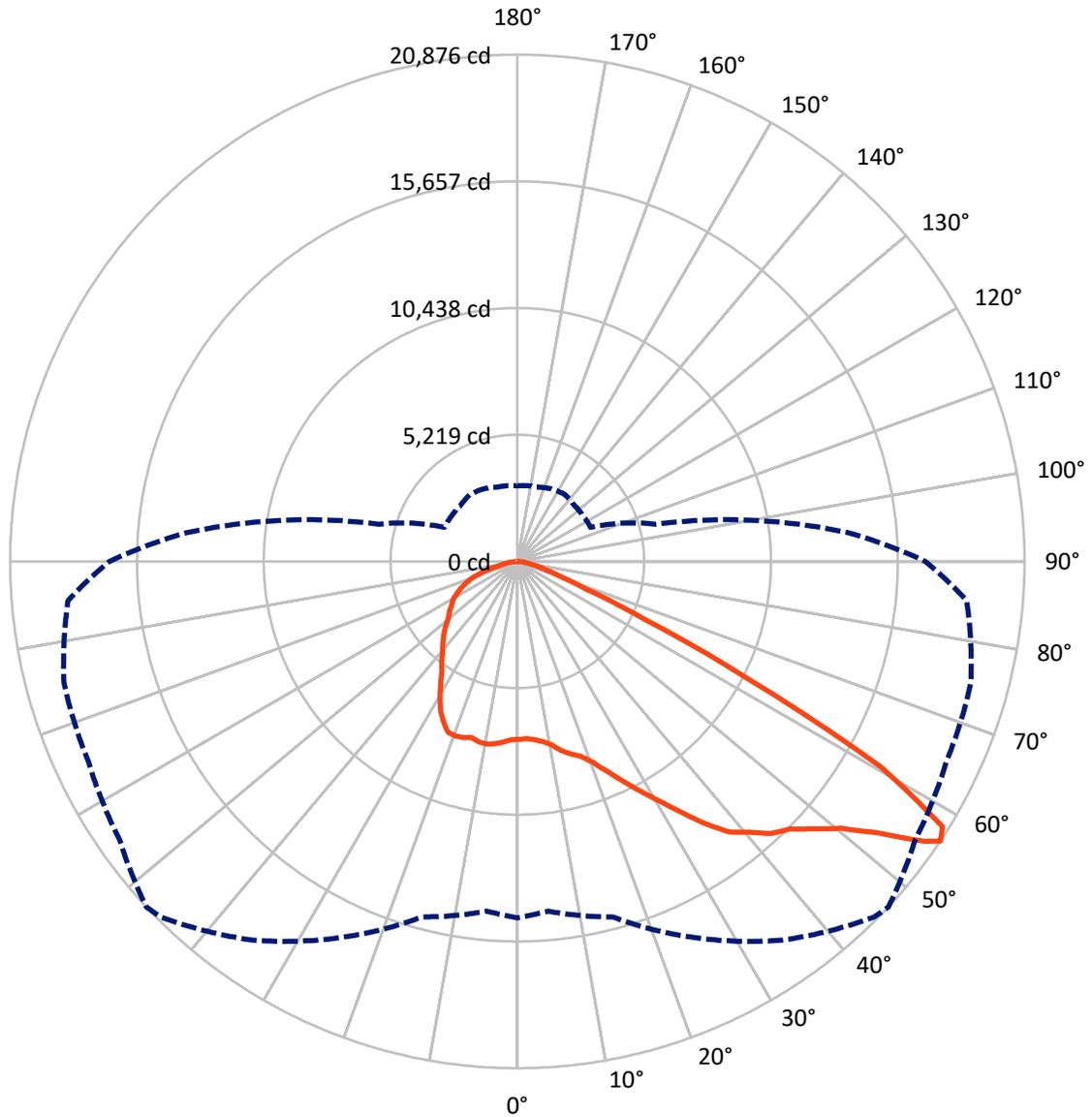
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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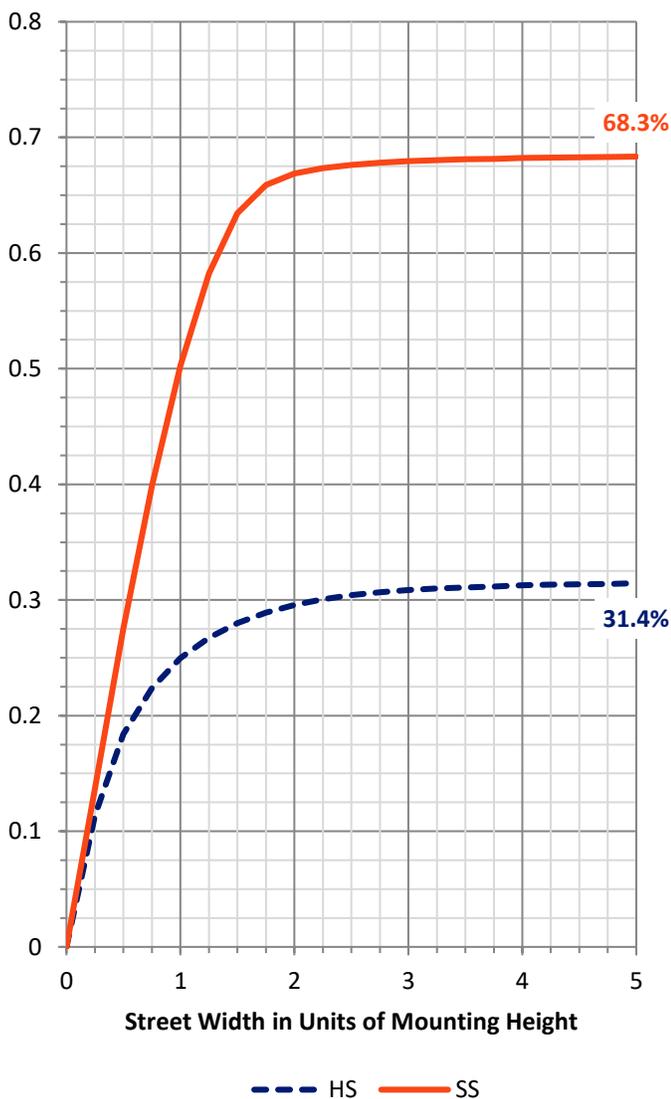
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11568.0 | 0.0 | 11568.0 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 24937.0 | 0.0 | 24937.0 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 36505.0 | 0.0 | 36505.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 714.5 | 2.0 |
| 10°-20° | 2253.8 | 6.2 |
| 20°-30° | 3984.2 | 10.9 |
| 30°-40° | 5984.1 | 16.4 |
| 40°-50° | 8212.7 | 22.5 |
| 50°-60° | 9784.3 | 26.8 |
| 60°-70° | 4187.1 | 11.5 |
| 70°-80° | 1184.9 | 3.2 |
| 80°-90° | 199.4 | 0.5 |
| 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° | 36505.0 | 100.0 |
| 0°-180° | 36505.0 | 100.0 |

Coefficient of Utilization

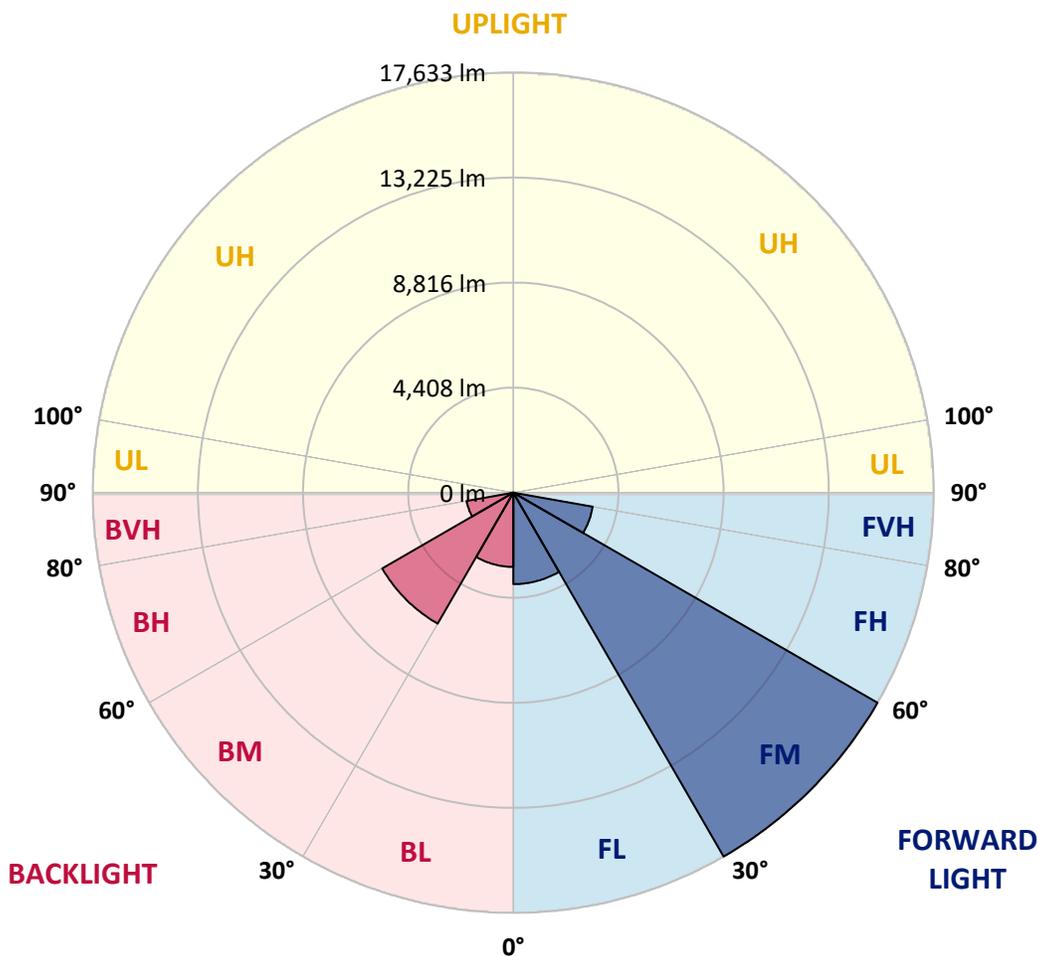


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3837.9 | 10.5 | | | |
| FM (30°-60°) | 17632.8 | 48.3 | | | |
| FH (60°-80°) | 3381.7 | 9.3 | | | G2/5000 |
| FVH (80°-90°) | 84.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3114.6 | 8.5 | B4/5000 | | |
| BM (30°-60°) | 6348.3 | 17.4 | B4/8500 | | |
| BH (60°-80°) | 1990.3 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 114.8 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7332.7 | 7332.7 | 7332.7 | 7332.7 | 7332.7 | 7332.7 | 7332.7 | 7332.7 | 7332.7 | 7332.7 | 7332.7 |
| 2.5° | 7304.8 | 7290.8 | 7281.5 | 7356.0 | 7328.1 | 7332.7 | 7304.8 | 7332.7 | 7351.4 | 7309.5 | 7370.0 |
| 5° | 7290.8 | 7332.7 | 7295.5 | 7318.8 | 7379.3 | 7360.7 | 7379.3 | 7435.2 | 7421.2 | 7407.2 | 7388.6 |
| 7.5° | 7421.2 | 7425.9 | 7453.8 | 7463.1 | 7481.7 | 7463.1 | 7491.0 | 7542.3 | 7528.3 | 7449.1 | 7458.4 |
| 10° | 7607.4 | 7616.7 | 7621.4 | 7672.6 | 7705.2 | 7709.9 | 7677.3 | 7630.7 | 7626.1 | 7733.1 | 7658.6 |
| 12.5° | 7821.6 | 7798.3 | 7854.2 | 7872.8 | 7910.1 | 7952.0 | 7993.9 | 7896.1 | 7956.6 | 7961.3 | 7872.8 |
| 15° | 8133.5 | 8156.8 | 8091.6 | 8091.6 | 8105.6 | 8110.2 | 8226.6 | 8180.1 | 8170.8 | 8119.6 | 8156.8 |
| 17.5° | 8599.1 | 8440.8 | 8436.1 | 8371.0 | 8361.7 | 8398.9 | 8440.8 | 8478.1 | 8603.8 | 8501.3 | 8301.1 |
| 20° | 8939.0 | 8976.2 | 8841.2 | 8762.0 | 8776.0 | 8859.8 | 8817.9 | 8985.5 | 9074.0 | 8906.4 | 8710.8 |
| 22.5° | 9539.6 | 9413.8 | 9446.4 | 9269.5 | 9283.5 | 9371.9 | 9367.3 | 9539.6 | 9590.8 | 9325.4 | 9041.4 |
| 25° | 9944.6 | 9912.0 | 9939.9 | 9800.3 | 9818.9 | 9888.7 | 10000.5 | 10284.5 | 10200.7 | 9907.4 | 9250.9 |
| 27.5° | 10535.9 | 10470.7 | 10447.4 | 10396.2 | 10377.6 | 10563.8 | 10694.2 | 10996.8 | 10936.3 | 10507.9 | 9623.4 |
| 30° | 11141.1 | 11099.2 | 11122.5 | 10913.0 | 10987.5 | 11383.2 | 11420.5 | 11834.8 | 11806.9 | 11052.7 | 10037.7 |
| 32.5° | 11560.1 | 11583.4 | 11625.3 | 11508.9 | 11839.5 | 12156.1 | 12281.8 | 12752.0 | 12775.3 | 11988.5 | 10838.5 |
| 35° | 12235.2 | 12156.1 | 12179.3 | 12314.4 | 12468.0 | 13045.3 | 13250.2 | 13562.1 | 13757.6 | 12970.8 | 11606.7 |
| 37.5° | 12658.9 | 12742.7 | 12644.9 | 12859.1 | 13259.5 | 13953.2 | 14139.4 | 14460.6 | 14665.5 | 13939.2 | 12654.2 |
| 40° | 13320.0 | 13185.0 | 13254.8 | 13408.4 | 13818.2 | 14721.4 | 14670.1 | 15000.7 | 15065.9 | 14763.3 | 13631.9 |
| 42.5° | 14032.3 | 13967.1 | 13869.4 | 14218.5 | 14563.1 | 15219.5 | 15321.9 | 15168.3 | 15498.9 | 15568.7 | 15028.6 |
| 45° | 14884.3 | 14963.5 | 14977.4 | 14986.7 | 15289.4 | 15862.0 | 15722.3 | 15587.3 | 15969.1 | 16476.6 | 15894.6 |
| 47.5° | 15675.8 | 15424.4 | 15605.9 | 15857.4 | 16285.7 | 16290.3 | 16453.3 | 16132.0 | 16537.1 | 16988.7 | 16676.8 |
| 50° | 15941.2 | 15820.1 | 16062.2 | 16537.1 | 17198.2 | 17268.0 | 17286.7 | 16830.4 | 17039.9 | 17398.4 | 16946.8 |
| 52.5° | 15838.7 | 15796.8 | 16416.0 | 17151.6 | 18120.0 | 18473.9 | 18567.0 | 18003.6 | 18120.0 | 17957.1 | 17542.7 |
| 55° | 15349.9 | 15475.6 | 16099.4 | 17598.6 | 19083.8 | 20177.9 | 20354.8 | 19642.4 | 18902.2 | 19027.9 | 18571.6 |
| 56° | 14679.5 | 14460.6 | 15159.0 | 17091.1 | 19041.9 | 20731.9 | 20876.2 | 19987.0 | 19484.2 | 19321.2 | 18562.3 |
| 57.5° | 12454.0 | 12170.0 | 13087.2 | 15377.8 | 17985.0 | 20522.4 | 20629.5 | 20131.3 | 19386.4 | 19055.8 | 17207.5 |
| 60° | 7290.8 | 7430.5 | 8594.4 | 10605.7 | 13874.0 | 16825.7 | 17184.2 | 17547.4 | 17049.2 | 15568.7 | 12807.9 |
| 62.5° | 3519.7 | 3431.3 | 4264.6 | 6080.4 | 8454.8 | 10740.7 | 10633.6 | 11653.2 | 12211.9 | 11062.0 | 8087.0 |
| 65° | 1843.7 | 1834.4 | 2327.9 | 3319.5 | 4646.4 | 5642.7 | 5740.5 | 6289.9 | 7058.1 | 5698.6 | 4106.3 |
| 67.5° | 1354.8 | 1392.1 | 1638.8 | 2332.5 | 2989.0 | 3049.5 | 3035.5 | 3310.2 | 3384.7 | 2863.3 | 2523.4 |
| 70° | 1061.5 | 1080.1 | 1261.7 | 1773.8 | 2225.4 | 1992.6 | 1950.7 | 1983.3 | 2202.2 | 2295.3 | 2183.5 |
| 72.5° | 768.2 | 786.8 | 940.5 | 1196.5 | 1392.1 | 1359.5 | 1387.4 | 1569.0 | 1839.0 | 1936.8 | 1820.4 |
| 75° | 512.1 | 526.1 | 609.9 | 730.9 | 824.1 | 889.2 | 940.5 | 1150.0 | 1401.4 | 1457.2 | 1401.4 |
| 77.5° | 353.8 | 367.8 | 423.7 | 516.8 | 526.1 | 568.0 | 586.6 | 684.4 | 838.0 | 907.9 | 870.6 |
| 80° | 200.2 | 200.2 | 228.1 | 265.4 | 325.9 | 381.8 | 391.1 | 470.2 | 540.1 | 586.6 | 595.9 |
| 82.5° | 93.1 | 97.8 | 121.0 | 162.9 | 214.2 | 265.4 | 274.7 | 325.9 | 377.1 | 423.7 | 437.6 |
| 85° | 46.6 | 51.2 | 69.8 | 97.8 | 130.4 | 158.3 | 153.6 | 158.3 | 167.6 | 158.3 | 162.9 |
| 87.5° | 14.0 | 14.0 | 18.6 | 23.3 | 18.6 | 23.3 | 23.3 | 27.9 | 32.6 | 37.2 | 41.9 |
| 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-SA7D-830-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7332.7 | 7332.7 | 7332.7 | 7332.7 | 7332.7 | 7332.7 | 7332.7 | 7332.7 | 7332.7 | 7332.7 | 7332.7 |
| 2.5° | 7374.6 | 7388.6 | 7295.5 | 7384.0 | 7351.4 | 7346.7 | 7411.9 | 7402.6 | 7425.9 | 7416.5 | 7360.7 |
| 5° | 7379.3 | 7346.7 | 7444.5 | 7356.0 | 7397.9 | 7486.4 | 7425.9 | 7565.5 | 7495.7 | 7542.3 | 7439.8 |
| 7.5° | 7523.6 | 7532.9 | 7514.3 | 7551.6 | 7532.9 | 7574.8 | 7542.3 | 7574.8 | 7519.0 | 7523.6 | 7616.7 |
| 10° | 7649.3 | 7621.4 | 7654.0 | 7607.4 | 7640.0 | 7626.1 | 7551.6 | 7528.3 | 7546.9 | 7523.6 | 7584.2 |
| 12.5° | 7882.1 | 7830.9 | 7807.6 | 7751.8 | 7714.5 | 7574.8 | 7458.4 | 7393.3 | 7481.7 | 7495.7 | 7467.8 |
| 15° | 8119.6 | 8124.2 | 8017.1 | 7891.4 | 7658.6 | 7449.1 | 7477.1 | 7500.4 | 7500.4 | 7537.6 | 7467.8 |
| 17.5° | 8268.5 | 8268.5 | 8170.8 | 7919.4 | 7681.9 | 7560.9 | 7532.9 | 7458.4 | 7393.3 | 7384.0 | 7379.3 |
| 20° | 8529.3 | 8450.1 | 8226.6 | 7914.7 | 7672.6 | 7616.7 | 7407.2 | 7230.3 | 7095.3 | 7048.7 | 7044.1 |
| 22.5° | 8827.2 | 8627.0 | 8315.1 | 7924.0 | 7658.6 | 7579.5 | 7188.4 | 6923.0 | 6680.9 | 6578.5 | 6592.5 |
| 25° | 9101.9 | 8780.7 | 8366.3 | 7882.1 | 7607.4 | 7225.7 | 6788.0 | 6420.2 | 6168.8 | 6085.0 | 6043.1 |
| 27.5° | 9292.8 | 8943.6 | 8366.3 | 7919.4 | 7416.5 | 6829.9 | 6383.0 | 5912.8 | 5693.9 | 5638.1 | 5647.4 |
| 30° | 9548.9 | 9148.5 | 8510.6 | 7840.2 | 7034.8 | 6317.8 | 5782.4 | 5475.1 | 5344.8 | 5298.2 | 5330.8 |
| 32.5° | 10149.5 | 9683.9 | 8710.8 | 7649.3 | 6583.2 | 5805.7 | 5372.7 | 5200.4 | 5009.5 | 4916.4 | 4883.8 |
| 35° | 10801.3 | 10191.4 | 8906.4 | 7328.1 | 6075.7 | 5340.1 | 5070.1 | 4911.8 | 4683.6 | 4581.2 | 4599.8 |
| 37.5° | 11723.1 | 10843.2 | 8920.3 | 6797.3 | 5526.3 | 5079.4 | 4832.6 | 4585.9 | 4399.6 | 4241.4 | 4194.8 |
| 40° | 12966.2 | 11732.4 | 8887.8 | 6238.7 | 5084.0 | 4772.1 | 4590.5 | 4283.3 | 4073.7 | 3962.0 | 3985.3 |
| 42.5° | 14060.2 | 12775.3 | 8752.7 | 5605.5 | 4683.6 | 4562.6 | 4357.7 | 4055.1 | 3850.3 | 3733.9 | 3724.6 |
| 45° | 14982.1 | 13543.5 | 8496.7 | 5065.4 | 4348.4 | 4329.8 | 4092.4 | 3859.6 | 3696.6 | 3589.6 | 3636.1 |
| 47.5° | 15834.1 | 14162.7 | 8110.2 | 4525.4 | 4041.2 | 4078.4 | 3850.3 | 3705.9 | 3603.5 | 3505.8 | 3501.1 |
| 50° | 16141.4 | 14153.4 | 7770.4 | 4078.4 | 3794.4 | 3775.8 | 3766.5 | 3612.8 | 3505.8 | 3421.9 | 3459.2 |
| 52.5° | 16653.5 | 14311.7 | 7402.6 | 3771.1 | 3570.9 | 3575.6 | 3608.2 | 3496.4 | 3375.4 | 3324.2 | 3370.7 |
| 55° | 17389.1 | 14334.9 | 6592.5 | 3412.6 | 3384.7 | 3417.3 | 3417.3 | 3342.8 | 3240.4 | 3198.5 | 3175.2 |
| 56° | 16788.5 | 13641.2 | 5912.8 | 3319.5 | 3291.6 | 3291.6 | 3380.0 | 3296.2 | 3170.5 | 3137.9 | 3110.0 |
| 57.5° | 15484.9 | 11951.2 | 4949.0 | 3207.8 | 3165.9 | 3231.1 | 3277.6 | 3189.2 | 3072.8 | 3026.2 | 3054.1 |
| 60° | 10680.2 | 8087.0 | 3719.9 | 2965.7 | 2965.7 | 3072.8 | 3110.0 | 2979.7 | 2928.4 | 2923.8 | 2886.5 |
| 62.5° | 6234.0 | 4711.6 | 2909.8 | 2746.9 | 2756.2 | 2844.6 | 2872.6 | 2798.1 | 2732.9 | 2812.0 | 2849.3 |
| 65° | 3305.6 | 2812.0 | 2495.5 | 2514.1 | 2518.7 | 2588.6 | 2709.6 | 2705.0 | 2700.3 | 2723.6 | 2728.2 |
| 67.5° | 2393.0 | 2337.2 | 2267.3 | 2248.7 | 2258.0 | 2309.2 | 2430.3 | 2523.4 | 2518.7 | 2462.9 | 2421.0 |
| 70° | 2132.3 | 2053.2 | 2011.3 | 2015.9 | 1978.7 | 2039.2 | 2137.0 | 2197.5 | 2090.4 | 2025.2 | 1997.3 |
| 72.5° | 1773.8 | 1750.5 | 1722.6 | 1727.3 | 1652.8 | 1638.8 | 1527.1 | 1527.1 | 1499.1 | 1480.5 | 1513.1 |
| 75° | 1354.8 | 1345.5 | 1359.5 | 1336.2 | 1257.0 | 1173.2 | 1108.1 | 1047.5 | 954.4 | 917.2 | 898.6 |
| 77.5° | 856.7 | 884.6 | 917.2 | 866.0 | 833.4 | 772.8 | 707.7 | 647.1 | 572.7 | 530.8 | 530.8 |
| 80° | 582.0 | 605.2 | 628.5 | 619.2 | 582.0 | 526.1 | 474.9 | 409.7 | 358.5 | 325.9 | 321.2 |
| 82.5° | 442.3 | 460.9 | 493.5 | 456.3 | 419.0 | 372.5 | 330.6 | 284.0 | 237.4 | 200.2 | 200.2 |
| 85° | 158.3 | 181.6 | 200.2 | 218.8 | 232.8 | 237.4 | 204.9 | 167.6 | 135.0 | 107.1 | 102.4 |
| 87.5° | 41.9 | 46.6 | 51.2 | 46.6 | 46.6 | 46.6 | 51.2 | 46.6 | 41.9 | 32.6 | 32.6 |
| 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)