

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: P456578

Luminaire Tested: **GLAN-SA7D-760-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-760-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44572 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

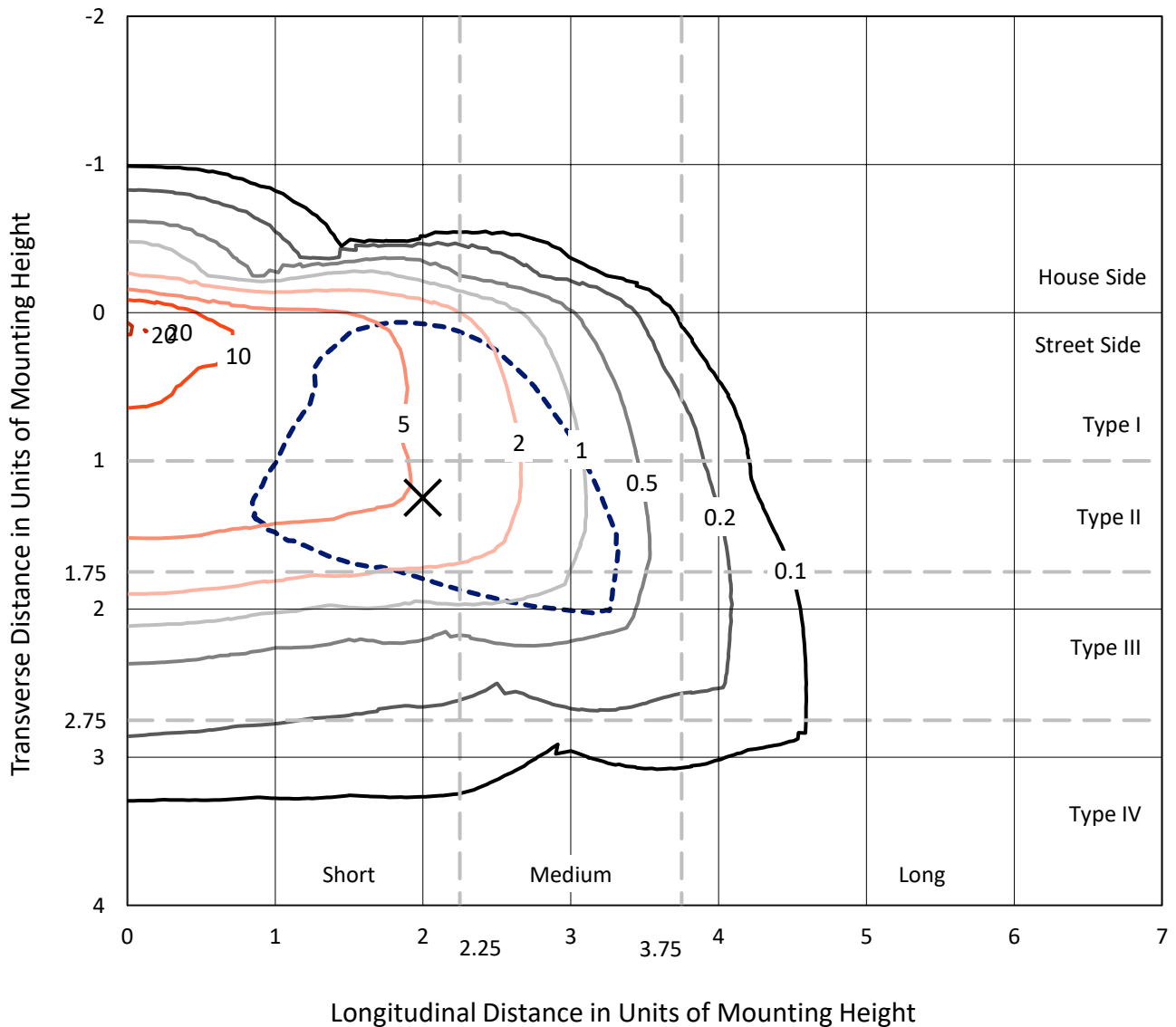




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Iso-Footcandle Lines of Horizontal Illumination

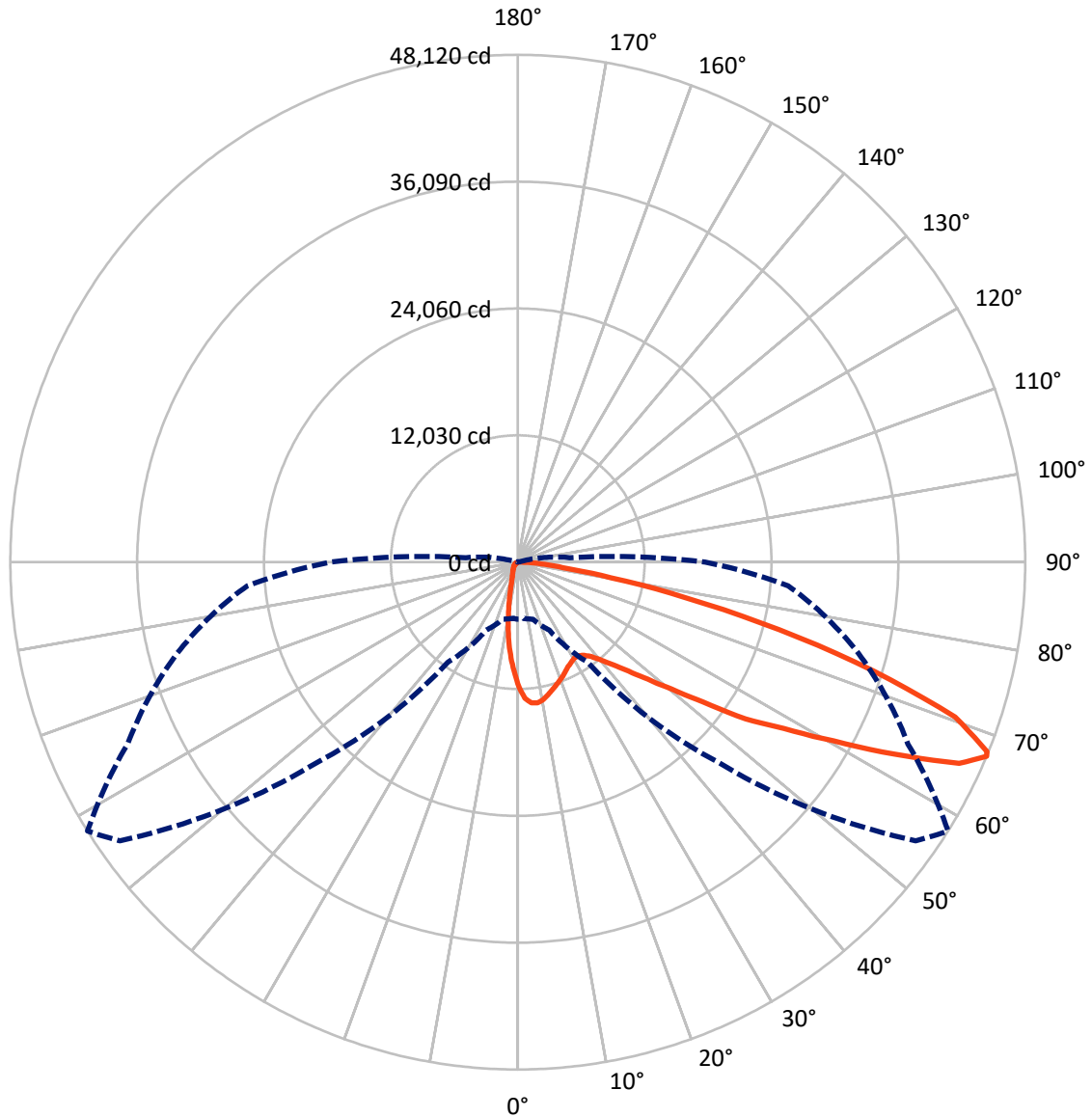
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3216.6 | 0.0 | 3216.6 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 41355.4 | 0.0 | 41355.4 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 44572.0 | 0.0 | 44572.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 958.8 | 2.2 |
| 10°-20° | 2070.8 | 4.6 |
| 20°-30° | 2806.1 | 6.3 |
| 30°-40° | 3891.9 | 8.7 |
| 40°-50° | 6207.1 | 13.9 |
| 50°-60° | 10729.4 | 24.1 |
| 60°-70° | 12256.4 | 27.5 |
| 70°-80° | 5109.8 | 11.5 |
| 80°-90° | 541.8 | 1.2 |
| 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° | 44572.0 | 100.0 |
| 0°-180° | 44572.0 | 100.0 |

Coefficient of Utilization



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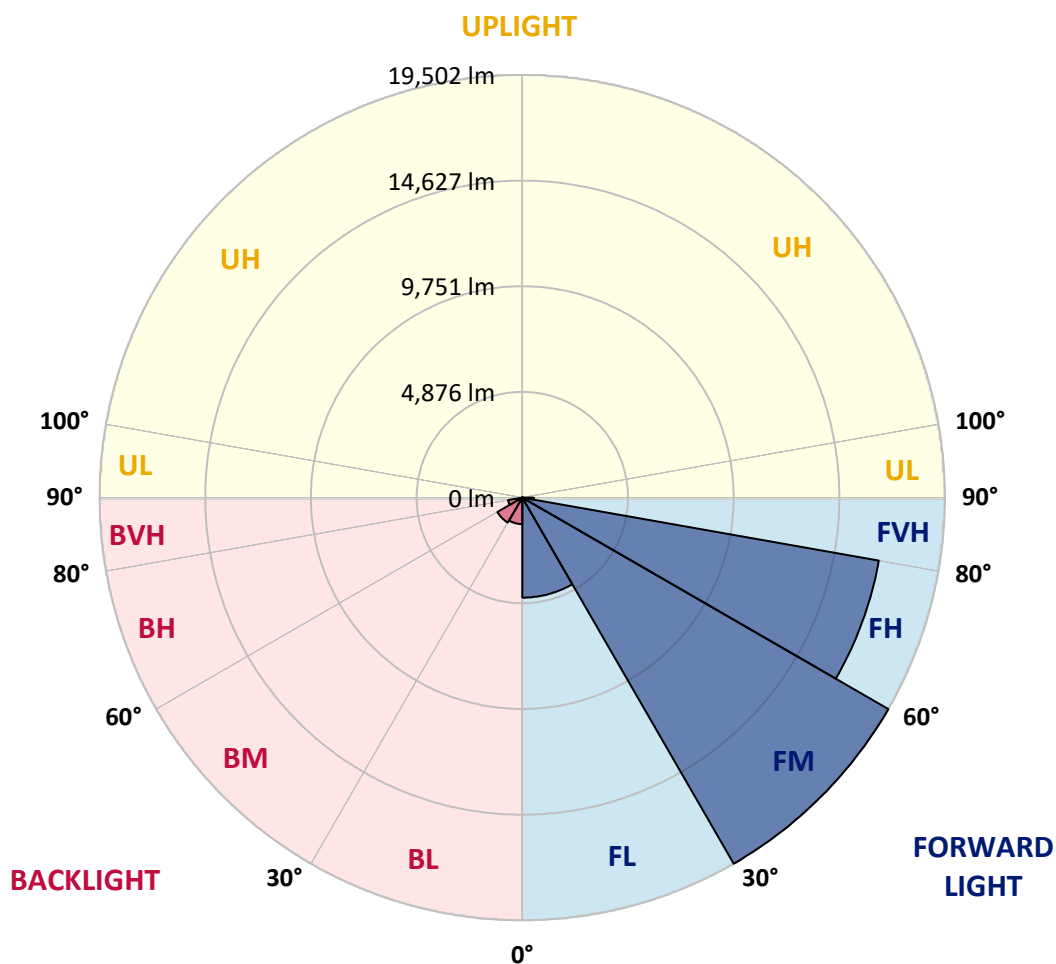
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4614.3 | 10.4 | | | |
| FM (30°-60°) | 19502.1 | 43.8 | | | |
| FH (60°-80°) | 16701.2 | 37.5 | | | G5 |
| FVH (80°-90°) | 537.9 | 1.2 | | | G4/750 |
| BL (0°-30°) | 1221.4 | 2.7 | B3/2500 | | |
| BM (30°-60°) | 1326.3 | 3.0 | B2/2500 | | |
| BH (60°-80°) | 665.0 | 1.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11815.6 | 11815.6 | 11815.6 | 11815.6 | 11815.6 | 11815.6 | 11815.6 | 11815.6 | 11815.6 | 11815.6 | 11815.6 |
| 2.5° | 13712.9 | 13733.8 | 13656.3 | 13593.8 | 13432.9 | 13260.2 | 13030.8 | 12908.7 | 12700.2 | 12339.8 | 11940.7 |
| 5° | 14034.6 | 14061.4 | 14049.5 | 14034.6 | 13972.0 | 13805.3 | 13513.4 | 13406.1 | 13099.4 | 12512.6 | 11791.8 |
| 7.5° | 13319.8 | 13418.0 | 13430.0 | 13546.1 | 13656.3 | 13671.2 | 13561.0 | 13480.6 | 13197.6 | 12509.6 | 11526.7 |
| 10° | 12372.6 | 12438.1 | 12533.4 | 12667.5 | 12932.6 | 13153.0 | 13260.2 | 13248.3 | 13084.5 | 12417.3 | 11217.0 |
| 12.5° | 11416.5 | 11452.3 | 11598.2 | 11827.5 | 12152.2 | 12527.5 | 12813.4 | 12870.0 | 12873.0 | 12307.1 | 10957.8 |
| 15° | 10594.5 | 10579.6 | 10692.7 | 10957.8 | 11413.5 | 11884.1 | 12396.4 | 12485.8 | 12628.8 | 12199.9 | 10716.6 |
| 17.5° | 9891.5 | 9969.0 | 9986.8 | 10278.7 | 10698.7 | 11309.3 | 11961.6 | 12119.4 | 12405.4 | 12107.5 | 10517.0 |
| 20° | 9456.7 | 9498.4 | 9537.1 | 9700.9 | 10079.2 | 10722.5 | 11553.5 | 11771.0 | 12196.9 | 12024.1 | 10293.6 |
| 22.5° | 9328.6 | 9355.4 | 9322.6 | 9373.3 | 9641.3 | 10213.2 | 11109.7 | 11398.6 | 11997.3 | 11946.7 | 10111.9 |
| 25° | 9426.9 | 9453.7 | 9376.3 | 9316.7 | 9409.0 | 9799.2 | 10680.8 | 11032.3 | 11836.5 | 11931.8 | 9974.9 |
| 27.5° | 9665.2 | 9715.8 | 9608.6 | 9501.3 | 9447.7 | 9575.8 | 10344.3 | 10752.3 | 11726.3 | 12003.3 | 9912.4 |
| 30° | 10037.5 | 10067.3 | 9986.8 | 9855.8 | 9733.7 | 9605.6 | 10168.5 | 10558.7 | 11696.5 | 12170.1 | 9906.4 |
| 32.5° | 10442.5 | 10505.1 | 10460.4 | 10374.0 | 10216.2 | 9912.4 | 10219.2 | 10564.7 | 11768.0 | 12411.3 | 9980.9 |
| 35° | 10942.9 | 11014.4 | 11056.1 | 11038.2 | 10835.7 | 10457.4 | 10540.8 | 10832.7 | 11958.6 | 12855.1 | 10183.4 |
| 37.5° | 11434.4 | 11496.9 | 11732.2 | 11812.6 | 11633.9 | 11276.5 | 11166.3 | 11359.9 | 12378.6 | 13435.9 | 10549.8 |
| 40° | 11997.3 | 12080.7 | 12411.3 | 12718.1 | 12631.7 | 12256.4 | 12053.9 | 12214.7 | 13021.9 | 14311.6 | 11243.8 |
| 42.5° | 12536.4 | 12685.3 | 13188.7 | 13730.8 | 13811.2 | 13391.2 | 13257.2 | 13310.8 | 13975.0 | 15571.5 | 12211.8 |
| 45° | 13301.9 | 13441.9 | 14091.2 | 14826.9 | 15205.1 | 14877.5 | 14740.5 | 14731.6 | 15282.6 | 17343.7 | 13781.4 |
| 47.5° | 14406.9 | 14532.0 | 15297.5 | 16024.2 | 16697.4 | 16742.0 | 16482.9 | 16572.3 | 16926.7 | 19416.7 | 15705.5 |
| 50° | 15762.1 | 16057.0 | 16560.3 | 17316.9 | 18216.4 | 18943.1 | 19023.5 | 18904.4 | 19208.2 | 21817.4 | 18016.8 |
| 52.5° | 17730.9 | 17844.1 | 18305.7 | 18928.2 | 19982.6 | 21215.7 | 22171.8 | 22008.0 | 21912.7 | 24104.8 | 20351.9 |
| 55° | 19199.3 | 19351.2 | 20069.0 | 20923.8 | 22469.6 | 24095.9 | 26168.9 | 26225.5 | 25022.2 | 26303.0 | 22636.4 |
| 57.5° | 18755.5 | 18987.8 | 20075.0 | 21793.5 | 25192.0 | 28164.5 | 29707.4 | 29746.1 | 27899.4 | 28438.5 | 25215.8 |
| 60° | 16476.9 | 16587.2 | 18144.9 | 20438.3 | 25424.3 | 32572.7 | 34726.1 | 34413.4 | 30827.3 | 30827.3 | 27494.3 |
| 62.5° | 11684.6 | 11857.3 | 13120.2 | 16494.8 | 22961.1 | 34103.6 | 40736.7 | 40090.3 | 34860.1 | 33111.8 | 28852.5 |
| 65° | 7467.0 | 7300.3 | 8137.2 | 10412.8 | 17105.4 | 31842.9 | 45969.9 | 46008.6 | 38654.7 | 34026.1 | 28110.9 |
| 67° | 5408.9 | 5343.4 | 5584.6 | 7118.6 | 11598.2 | 26767.6 | 46080.1 | 48120.3 | 40835.0 | 33448.3 | 25740.0 |
| 67.5° | 4947.3 | 4997.9 | 5173.6 | 6421.6 | 10537.9 | 24358.0 | 45579.7 | 47995.2 | 41326.4 | 33099.8 | 24882.2 |
| 70° | 3749.9 | 3663.5 | 3854.2 | 4542.2 | 6317.4 | 15366.0 | 39208.7 | 44018.9 | 40715.8 | 29641.8 | 19881.4 |
| 72.5° | 2758.1 | 2749.1 | 3014.2 | 3714.2 | 4863.9 | 8184.9 | 29433.3 | 35295.0 | 33263.7 | 22570.9 | 12518.5 |
| 75° | 1861.5 | 1944.9 | 2367.9 | 3103.6 | 4408.1 | 5307.7 | 20066.0 | 25606.0 | 23092.2 | 12816.4 | 5117.0 |
| 77.5° | 1060.3 | 1066.3 | 1525.0 | 2493.0 | 3958.4 | 4271.1 | 11890.1 | 16313.1 | 12223.7 | 4262.2 | 1519.0 |
| 80° | 458.7 | 503.4 | 756.5 | 1810.9 | 3282.3 | 3782.7 | 6817.7 | 8965.2 | 4944.3 | 902.5 | 491.4 |
| 82.5° | 169.8 | 199.6 | 333.6 | 1114.0 | 2394.7 | 3115.5 | 4119.2 | 4280.1 | 1676.9 | 318.7 | 306.8 |
| 85° | 0.0 | 6.0 | 122.1 | 521.2 | 1248.0 | 1390.9 | 2752.1 | 2537.7 | 741.6 | 151.9 | 199.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 53.6 | 163.8 | 518.3 | 854.8 | 953.1 | 178.7 | 53.6 | 47.7 |
| 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-SA7D-760-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11815.6 | 11815.6 | 11815.6 | 11815.6 | 11815.6 | 11815.6 | 11815.6 | 11815.6 | 11815.6 | 11815.6 | 11815.6 |
| 2.5° | 11726.3 | 11532.7 | 11047.2 | 10561.7 | 10201.3 | 9900.5 | 9447.7 | 9200.5 | 9069.5 | 8875.9 | 8887.8 |
| 5° | 11431.4 | 11038.2 | 10183.4 | 9298.8 | 8584.0 | 7887.0 | 7053.0 | 6716.5 | 6433.5 | 6272.7 | 6165.5 |
| 7.5° | 10993.6 | 10412.8 | 9146.9 | 7967.4 | 6868.4 | 5650.2 | 4735.8 | 4125.2 | 3714.2 | 3562.3 | 3416.3 |
| 10° | 10514.0 | 9742.6 | 8095.5 | 6460.3 | 4935.3 | 3678.4 | 2904.0 | 2344.1 | 2144.5 | 1959.8 | 1977.7 |
| 12.5° | 10070.2 | 9132.0 | 7130.5 | 5099.2 | 3458.0 | 2338.1 | 1822.8 | 1593.5 | 1528.0 | 1507.1 | 1507.1 |
| 15° | 9706.9 | 8548.2 | 6094.0 | 3833.3 | 2370.9 | 1679.9 | 1459.5 | 1396.9 | 1373.1 | 1367.1 | 1367.1 |
| 17.5° | 9319.7 | 7994.2 | 5158.7 | 2832.5 | 1724.5 | 1405.8 | 1331.4 | 1289.7 | 1280.7 | 1274.8 | 1274.8 |
| 20° | 8974.2 | 7437.3 | 4271.1 | 2108.8 | 1393.9 | 1265.9 | 1218.2 | 1191.4 | 1182.5 | 1176.5 | 1179.5 |
| 22.5° | 8646.5 | 6942.8 | 3437.2 | 1593.5 | 1227.1 | 1152.7 | 1105.0 | 1078.2 | 1060.3 | 1045.4 | 1048.4 |
| 25° | 8354.6 | 6466.3 | 2764.0 | 1304.6 | 1105.0 | 1039.5 | 991.8 | 953.1 | 914.4 | 896.5 | 893.5 |
| 27.5° | 8149.1 | 6049.3 | 2153.4 | 1116.9 | 994.8 | 923.3 | 863.8 | 816.1 | 765.5 | 738.7 | 732.7 |
| 30° | 7979.3 | 5626.3 | 1703.7 | 985.9 | 884.6 | 816.1 | 741.6 | 673.1 | 619.5 | 592.7 | 580.8 |
| 32.5° | 7869.1 | 5224.3 | 1343.3 | 878.7 | 792.3 | 708.9 | 625.5 | 557.0 | 497.4 | 470.6 | 464.6 |
| 35° | 7851.3 | 4887.7 | 1099.1 | 789.3 | 708.9 | 619.5 | 533.1 | 458.7 | 408.1 | 381.2 | 375.3 |
| 37.5° | 7979.3 | 4628.6 | 920.4 | 717.8 | 640.4 | 542.1 | 446.8 | 378.3 | 333.6 | 312.7 | 309.8 |
| 40° | 8321.9 | 4464.7 | 798.2 | 658.2 | 577.8 | 470.6 | 381.2 | 321.7 | 277.0 | 256.1 | 256.1 |
| 42.5° | 8974.2 | 4470.7 | 717.8 | 601.7 | 515.3 | 402.1 | 324.7 | 268.1 | 229.3 | 211.5 | 205.5 |
| 45° | 9992.8 | 4673.2 | 649.3 | 545.1 | 455.7 | 348.5 | 277.0 | 220.4 | 181.7 | 166.8 | 166.8 |
| 47.5° | 11356.9 | 5075.3 | 589.7 | 488.5 | 402.1 | 297.8 | 235.3 | 178.7 | 145.9 | 131.1 | 131.1 |
| 50° | 13141.1 | 5721.7 | 539.1 | 440.8 | 357.4 | 256.1 | 190.6 | 145.9 | 113.2 | 101.3 | 98.3 |
| 52.5° | 15005.6 | 6519.9 | 479.5 | 399.1 | 306.8 | 217.4 | 154.9 | 113.2 | 86.4 | 77.4 | 74.5 |
| 55° | 17063.7 | 7300.3 | 422.9 | 357.4 | 250.2 | 181.7 | 122.1 | 89.4 | 62.5 | 53.6 | 53.6 |
| 57.5° | 19139.7 | 8065.7 | 354.4 | 297.8 | 196.6 | 134.0 | 95.3 | 65.5 | 41.7 | 32.8 | 32.8 |
| 60° | 20897.0 | 8312.9 | 300.8 | 241.3 | 148.9 | 95.3 | 68.5 | 41.7 | 23.8 | 14.9 | 14.9 |
| 62.5° | 21138.3 | 7479.0 | 253.2 | 184.7 | 107.2 | 65.5 | 35.7 | 23.8 | 8.9 | 6.0 | 6.0 |
| 65° | 19827.7 | 6076.1 | 211.5 | 140.0 | 71.5 | 32.8 | 14.9 | 8.9 | 3.0 | 0.0 | 0.0 |
| 67° | 17766.6 | 4926.4 | 172.8 | 104.2 | 50.6 | 20.8 | 8.9 | 3.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 17239.4 | 4697.1 | 166.8 | 98.3 | 44.7 | 17.9 | 6.0 | 3.0 | 0.0 | 0.0 | 0.0 |
| 70° | 13528.3 | 3517.6 | 119.1 | 59.6 | 26.8 | 11.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 8408.2 | 1989.6 | 86.4 | 35.7 | 17.9 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 3178.0 | 697.0 | 59.6 | 23.8 | 11.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 988.9 | 265.1 | 35.7 | 17.9 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 333.6 | 101.3 | 23.8 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 205.5 | 41.7 | 14.9 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 128.1 | 17.9 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 23.8 | 6.0 | 3.0 | 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)