

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: P458174

Luminaire Tested: **GLAN-SA9C-750-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63172 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

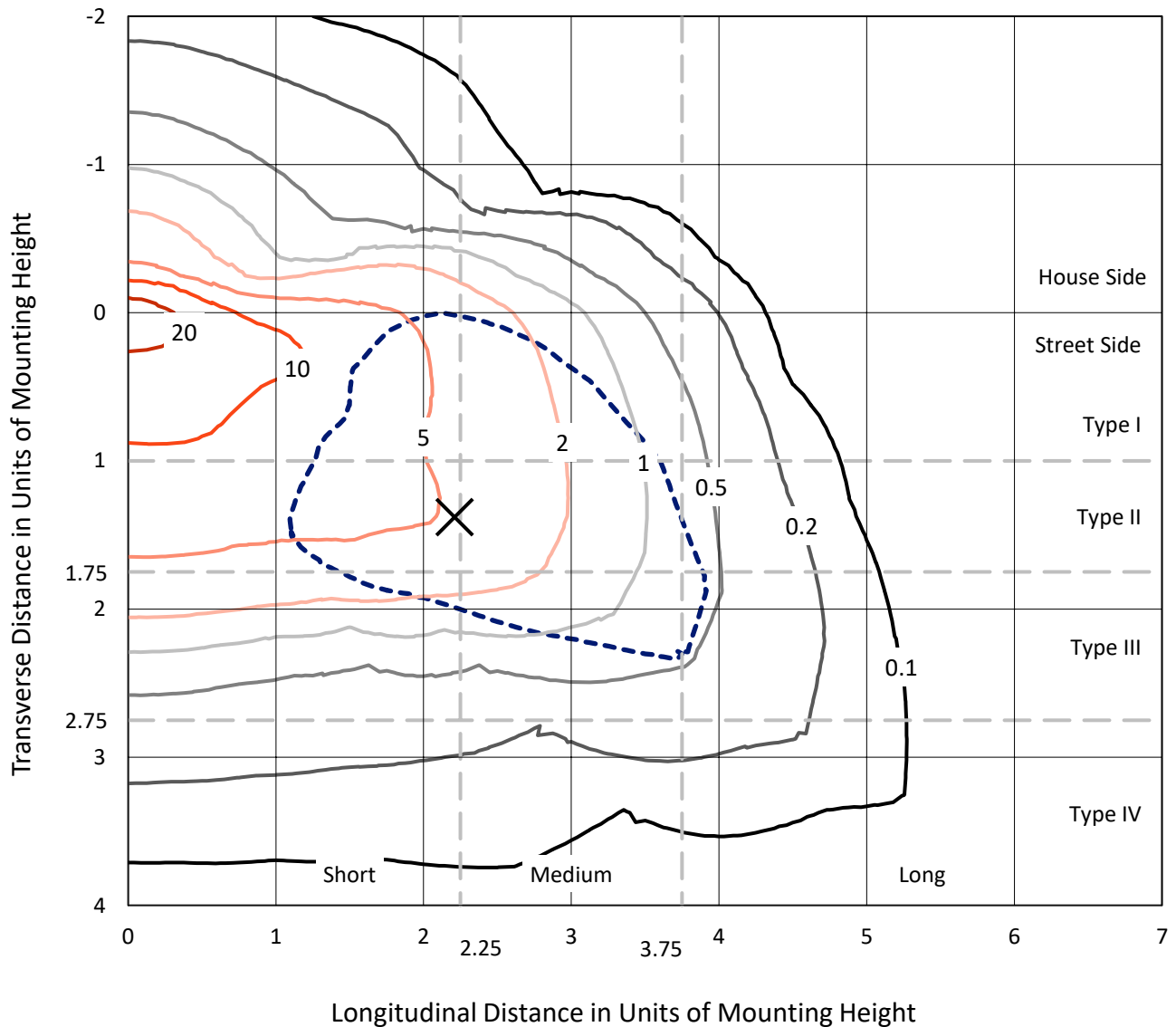
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

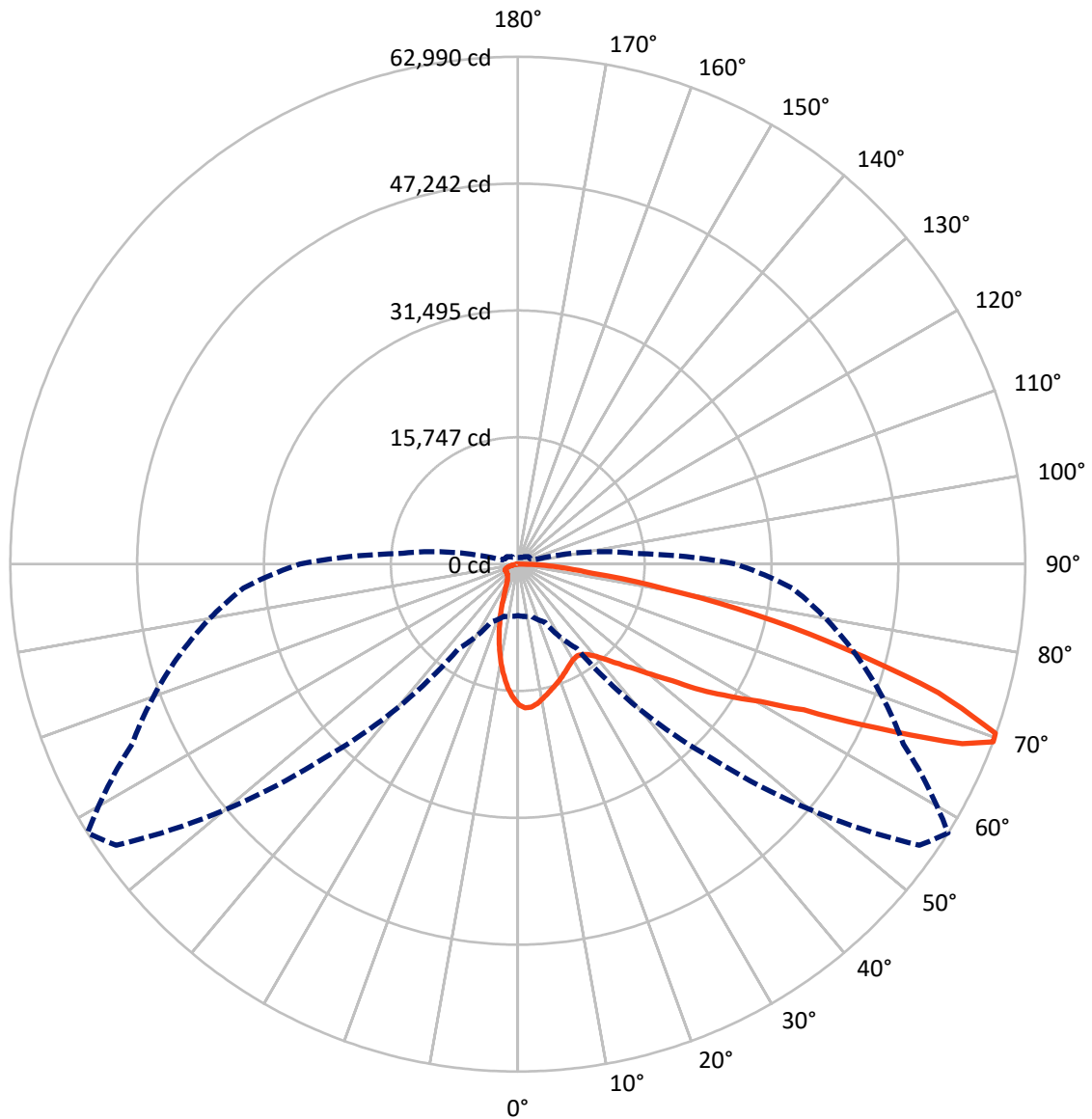
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9257.9 | 0.0 | 9257.9 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 53914.1 | 0.0 | 53914.1 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 63172.0 | 0.0 | 63172.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1482.5 | 2.3 |
| 10°-20° | 3255.4 | 5.2 |
| 20°-30° | 4206.0 | 6.7 |
| 30°-40° | 5462.8 | 8.6 |
| 40°-50° | 7942.1 | 12.6 |
| 50°-60° | 12672.9 | 20.1 |
| 60°-70° | 16929.5 | 26.8 |
| 70°-80° | 9759.1 | 15.4 |
| 80°-90° | 1461.7 | 2.3 |
| 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° | 63172.0 | 100.0 |
| 0°-180° | 63172.0 | 100.0 |

Coefficient of Utilization



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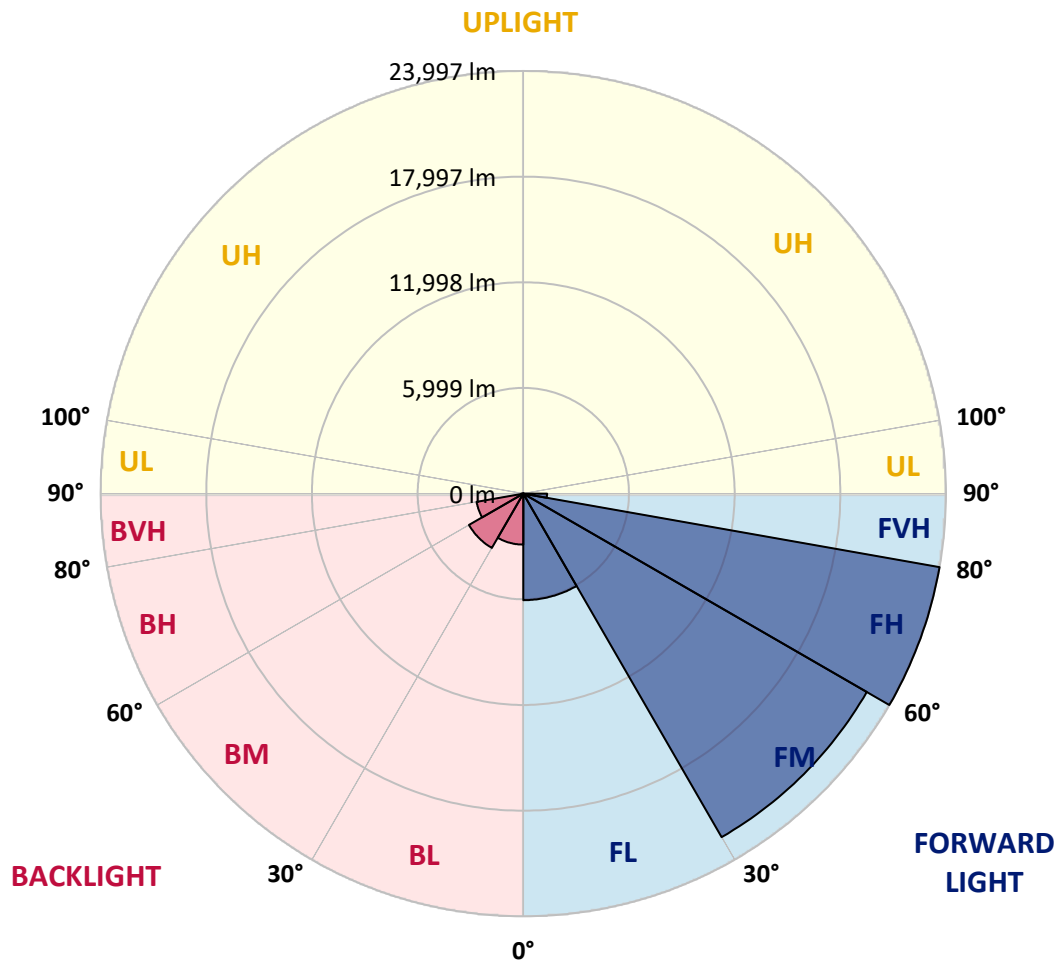
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 6050.3 | 9.6 | | | |
| FM | (30°-60°) | 22517.5 | 35.6 | | | |
| FH | (60°-80°) | 23996.6 | 38.0 | | | G5 |
| FVH | (80°-90°) | 1349.7 | 2.1 | | | G5 |
| BL | (0°-30°) | 2893.6 | 4.6 | B4/5000 | | |
| BM | (30°-60°) | 3560.2 | 5.6 | B3/5000 | | |
| BH | (60°-80°) | 2692.0 | 4.3 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 112.0 | 0.2 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17457.0 | 17457.0 | 17457.0 | 17457.0 | 17457.0 | 17457.0 | 17457.0 | 17457.0 | 17457.0 | 17457.0 | 17457.0 |
| 2.5° | 18105.3 | 18154.6 | 18140.5 | 18122.9 | 18094.7 | 18017.2 | 17890.4 | 17869.2 | 17788.2 | 17615.6 | 17400.7 |
| 5° | 17827.0 | 17869.2 | 17872.8 | 17897.4 | 17932.7 | 17918.6 | 17827.0 | 17816.4 | 17696.6 | 17464.1 | 17104.7 |
| 7.5° | 16872.2 | 16928.6 | 17051.9 | 17189.3 | 17312.6 | 17428.9 | 17457.0 | 17474.7 | 17400.7 | 17132.9 | 16653.8 |
| 10° | 15797.7 | 15854.0 | 15910.4 | 16114.7 | 16417.7 | 16706.6 | 16946.2 | 16977.9 | 16995.5 | 16748.9 | 16164.1 |
| 12.5° | 14606.8 | 14723.1 | 14842.9 | 15145.9 | 15551.0 | 16005.5 | 16428.3 | 16495.2 | 16615.0 | 16428.3 | 15741.3 |
| 15° | 13595.7 | 13715.5 | 13888.1 | 14159.4 | 14649.1 | 15304.4 | 15899.8 | 16009.0 | 16245.1 | 16150.0 | 15346.7 |
| 17.5° | 12894.6 | 12936.9 | 13056.7 | 13366.7 | 13895.2 | 14585.7 | 15381.9 | 15600.4 | 15977.3 | 15952.7 | 15008.5 |
| 20° | 12341.5 | 12394.3 | 12468.3 | 12658.6 | 13208.2 | 13937.4 | 14899.3 | 15181.1 | 15692.0 | 15776.5 | 14673.8 |
| 22.5° | 12109.0 | 12147.7 | 12137.1 | 12239.3 | 12612.8 | 13345.6 | 14409.5 | 14744.2 | 15438.3 | 15656.7 | 14363.7 |
| 25° | 12123.0 | 12158.3 | 12105.4 | 12080.8 | 12302.7 | 12824.1 | 13898.7 | 14325.0 | 15234.0 | 15575.7 | 14081.9 |
| 27.5° | 12359.1 | 12383.8 | 12285.1 | 12186.5 | 12204.1 | 12500.0 | 13475.9 | 13948.0 | 15061.3 | 15610.9 | 13845.8 |
| 30° | 12676.2 | 12722.0 | 12658.6 | 12538.8 | 12408.4 | 12422.5 | 13204.6 | 13669.7 | 14980.3 | 15734.2 | 13733.1 |
| 32.5° | 13084.9 | 13127.1 | 13098.9 | 13003.8 | 12834.7 | 12648.0 | 13137.7 | 13567.5 | 14987.3 | 15984.4 | 13708.4 |
| 35° | 13514.7 | 13599.2 | 13645.0 | 13638.0 | 13500.6 | 13176.5 | 13401.9 | 13757.8 | 15156.4 | 16403.6 | 13852.9 |
| 37.5° | 14000.9 | 14071.3 | 14268.6 | 14395.5 | 14268.6 | 13891.6 | 13997.3 | 14244.0 | 15529.9 | 17009.6 | 14170.0 |
| 40° | 14473.0 | 14578.7 | 14867.6 | 15262.1 | 15212.8 | 14881.6 | 14906.3 | 15068.4 | 16188.7 | 17911.5 | 14790.0 |
| 42.5° | 14966.2 | 15093.0 | 15596.8 | 16181.7 | 16297.9 | 16040.7 | 16107.7 | 16252.1 | 17125.9 | 19162.2 | 15854.0 |
| 45° | 15600.4 | 15751.9 | 16371.9 | 17101.2 | 17559.2 | 17400.7 | 17590.9 | 17661.4 | 18380.1 | 20789.9 | 17256.2 |
| 47.5° | 16417.7 | 16593.9 | 17358.4 | 18267.4 | 18915.6 | 19060.1 | 19391.2 | 19349.0 | 19933.8 | 22717.1 | 19074.2 |
| 50° | 17795.3 | 17893.9 | 18616.1 | 19542.7 | 20434.1 | 21085.9 | 21445.2 | 21512.1 | 21860.9 | 24591.4 | 21107.0 |
| 52.5° | 19433.5 | 19521.6 | 20043.0 | 20853.3 | 21970.2 | 23351.2 | 24239.0 | 24020.6 | 24105.2 | 26874.3 | 23485.1 |
| 55° | 21276.1 | 21424.1 | 21755.2 | 22294.3 | 23742.3 | 25775.1 | 27557.8 | 27610.7 | 26673.5 | 29058.7 | 25764.6 |
| 57.5° | 22703.0 | 22953.1 | 23520.3 | 24288.4 | 26123.9 | 28470.3 | 30866.0 | 30901.3 | 29703.4 | 31391.0 | 28280.1 |
| 60° | 21984.2 | 22280.2 | 23576.7 | 25447.5 | 29248.9 | 33173.7 | 34819.0 | 34618.1 | 32652.2 | 34047.4 | 31348.7 |
| 62.5° | 18883.9 | 18936.8 | 20821.6 | 23745.8 | 30210.7 | 39466.0 | 40702.6 | 39853.5 | 36587.6 | 37415.5 | 34466.6 |
| 65° | 12221.7 | 12567.0 | 14060.8 | 18158.1 | 27050.5 | 42957.4 | 51011.2 | 49048.8 | 42104.8 | 41238.1 | 37077.3 |
| 67.5° | 7715.6 | 7627.5 | 8247.6 | 10368.5 | 18605.6 | 39881.7 | 59808.4 | 59498.4 | 49320.1 | 43651.4 | 36453.7 |
| 69° | 6398.0 | 6496.6 | 6708.0 | 7948.2 | 12803.0 | 34050.9 | 60847.7 | 62989.8 | 52818.6 | 43461.2 | 34188.3 |
| 70° | 5802.6 | 5848.4 | 6070.3 | 7046.2 | 9878.8 | 28519.6 | 59142.6 | 62894.7 | 54192.6 | 42664.9 | 32546.6 |
| 72.5° | 4604.7 | 4601.2 | 4981.7 | 5862.5 | 7384.5 | 16280.3 | 48562.6 | 54604.8 | 52656.5 | 38958.6 | 26891.9 |
| 75° | 3498.5 | 3554.8 | 3974.1 | 4960.5 | 6803.1 | 8895.9 | 33888.9 | 42051.9 | 42055.4 | 30770.9 | 16780.6 |
| 77.5° | 2522.6 | 2557.8 | 3047.5 | 4164.3 | 6408.5 | 7211.8 | 22572.6 | 30161.4 | 28354.0 | 14099.5 | 5274.1 |
| 80° | 1652.3 | 1673.5 | 2046.9 | 3297.6 | 5777.9 | 6803.1 | 13384.3 | 18461.1 | 13373.8 | 3741.5 | 1743.9 |
| 82.5° | 905.4 | 1011.1 | 1250.7 | 2135.0 | 4636.4 | 6285.2 | 8134.9 | 9343.3 | 5016.9 | 1666.4 | 909.0 |
| 85° | 454.5 | 482.7 | 704.6 | 1247.2 | 3029.9 | 5200.1 | 5665.2 | 5358.7 | 2589.5 | 827.9 | 472.1 |
| 87.5° | 133.9 | 169.1 | 292.4 | 482.7 | 1229.6 | 2709.3 | 3153.2 | 2829.1 | 997.0 | 299.5 | 98.6 |
| 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-SA9C-750-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17457.0 | 17457.0 | 17457.0 | 17457.0 | 17457.0 | 17457.0 | 17457.0 | 17457.0 | 17457.0 | 17457.0 | 17457.0 |
| 2.5° | 17312.6 | 17249.2 | 16967.3 | 16713.7 | 16481.1 | 16234.5 | 16026.7 | 15843.5 | 15861.1 | 15864.6 | 15677.9 |
| 5° | 16918.0 | 16773.6 | 16238.0 | 15737.8 | 15315.0 | 14779.5 | 14321.5 | 14025.5 | 13877.6 | 13680.3 | 13750.7 |
| 7.5° | 16382.5 | 16104.2 | 15360.8 | 14529.3 | 13750.7 | 13056.7 | 12302.7 | 11784.8 | 11453.7 | 11133.0 | 11175.3 |
| 10° | 15829.4 | 15381.9 | 14300.3 | 13201.1 | 12193.5 | 11083.7 | 10121.9 | 9297.5 | 8684.5 | 8455.5 | 8304.0 |
| 12.5° | 15262.1 | 14673.8 | 13299.8 | 11837.7 | 10446.0 | 9117.8 | 7754.4 | 6870.1 | 6193.6 | 5834.3 | 5880.1 |
| 15° | 14744.2 | 14029.1 | 12256.9 | 10474.2 | 8666.9 | 7085.0 | 5725.1 | 4883.0 | 4410.9 | 4312.3 | 4368.7 |
| 17.5° | 14265.1 | 13327.9 | 11281.0 | 9149.5 | 7039.2 | 5312.9 | 4301.7 | 3826.1 | 3635.9 | 3583.0 | 3579.5 |
| 20° | 13771.9 | 12732.5 | 10185.3 | 7733.2 | 5485.5 | 4118.5 | 3530.2 | 3308.2 | 3273.0 | 3294.1 | 3297.6 |
| 22.5° | 13271.6 | 11996.2 | 9057.9 | 6327.5 | 4368.7 | 3368.1 | 3086.3 | 3026.4 | 3054.5 | 3103.9 | 3110.9 |
| 25° | 12810.1 | 11348.0 | 7972.8 | 5094.4 | 3487.9 | 2959.4 | 2822.0 | 2822.0 | 2885.4 | 2959.4 | 2962.9 |
| 27.5° | 12429.6 | 10720.8 | 6891.2 | 4044.5 | 2920.7 | 2663.5 | 2617.7 | 2642.3 | 2730.4 | 2786.8 | 2790.3 |
| 30° | 12116.0 | 10136.0 | 5869.5 | 3241.3 | 2568.4 | 2427.4 | 2416.9 | 2459.1 | 2522.6 | 2575.4 | 2578.9 |
| 32.5° | 11879.9 | 9621.6 | 4914.7 | 2723.4 | 2325.3 | 2247.7 | 2244.2 | 2275.9 | 2311.2 | 2325.3 | 2339.3 |
| 35° | 11788.3 | 9195.3 | 4041.0 | 2395.7 | 2163.2 | 2113.9 | 2113.9 | 2110.3 | 2124.4 | 2131.5 | 2138.5 |
| 37.5° | 11862.3 | 8867.7 | 3364.6 | 2184.3 | 2043.4 | 2008.2 | 1987.0 | 1965.9 | 1958.9 | 1958.9 | 1962.4 |
| 40° | 12175.9 | 8695.1 | 2860.8 | 2046.9 | 1958.9 | 1906.0 | 1867.3 | 1842.6 | 1817.9 | 1825.0 | 1832.0 |
| 42.5° | 12841.8 | 8726.8 | 2519.0 | 1955.3 | 1884.9 | 1810.9 | 1754.5 | 1726.3 | 1708.7 | 1729.9 | 1726.3 |
| 45° | 13902.2 | 9043.8 | 2300.6 | 1891.9 | 1810.9 | 1715.8 | 1662.9 | 1634.7 | 1634.7 | 1666.4 | 1677.0 |
| 47.5° | 15385.4 | 9649.8 | 2184.3 | 1842.6 | 1754.5 | 1641.8 | 1588.9 | 1567.8 | 1574.8 | 1627.7 | 1631.2 |
| 50° | 17196.3 | 10703.2 | 2163.2 | 1817.9 | 1726.3 | 1588.9 | 1529.0 | 1507.9 | 1525.5 | 1581.9 | 1588.9 |
| 52.5° | 19193.9 | 12059.6 | 2265.4 | 1821.5 | 1701.7 | 1557.2 | 1479.7 | 1448.0 | 1465.6 | 1511.4 | 1525.5 |
| 55° | 21561.5 | 13757.8 | 2529.6 | 1835.5 | 1666.4 | 1539.6 | 1444.5 | 1374.0 | 1395.2 | 1426.9 | 1430.4 |
| 57.5° | 23978.3 | 15899.8 | 2994.6 | 1839.1 | 1638.2 | 1507.9 | 1384.6 | 1293.0 | 1293.0 | 1314.1 | 1324.7 |
| 60° | 26930.7 | 18232.1 | 3607.7 | 1842.6 | 1641.8 | 1462.1 | 1303.6 | 1201.4 | 1187.3 | 1197.9 | 1201.4 |
| 62.5° | 29861.9 | 20183.9 | 3709.8 | 1832.0 | 1677.0 | 1416.3 | 1215.5 | 1109.8 | 1085.1 | 1081.6 | 1074.6 |
| 65° | 31154.9 | 19821.1 | 3040.4 | 1782.7 | 1715.8 | 1388.1 | 1145.0 | 1021.7 | 979.4 | 965.3 | 965.3 |
| 67.5° | 29048.1 | 16766.5 | 2286.5 | 1715.8 | 1691.1 | 1359.9 | 1078.1 | 947.7 | 898.4 | 870.2 | 870.2 |
| 69° | 27068.1 | 14913.4 | 2054.0 | 1670.0 | 1627.7 | 1314.1 | 1035.8 | 909.0 | 849.1 | 817.4 | 806.8 |
| 70° | 25539.1 | 13638.0 | 1955.3 | 1631.2 | 1567.8 | 1261.3 | 1004.1 | 880.8 | 813.8 | 778.6 | 771.6 |
| 72.5° | 20381.2 | 10699.7 | 1712.2 | 1483.2 | 1335.3 | 1060.5 | 891.3 | 792.7 | 729.3 | 690.5 | 680.0 |
| 75° | 11746.1 | 5799.0 | 1419.8 | 1289.5 | 1074.6 | 824.4 | 753.9 | 690.5 | 641.2 | 606.0 | 595.4 |
| 77.5° | 3614.7 | 2240.7 | 1028.8 | 1018.2 | 789.2 | 637.7 | 602.5 | 577.8 | 542.6 | 503.8 | 496.8 |
| 80° | 1522.0 | 1141.5 | 697.6 | 687.0 | 524.9 | 443.9 | 433.3 | 429.8 | 415.7 | 384.0 | 373.5 |
| 82.5° | 835.0 | 644.7 | 486.2 | 422.8 | 317.1 | 257.2 | 267.8 | 271.3 | 260.7 | 229.0 | 207.9 |
| 85° | 408.7 | 352.3 | 236.0 | 190.2 | 144.4 | 91.6 | 88.1 | 105.7 | 98.6 | 70.5 | 77.5 |
| 87.5° | 81.0 | 98.6 | 63.4 | 28.2 | 14.1 | 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)