

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: P454473

Luminaire Tested: **GLAN-SA5C-750-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5C-750-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35881 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

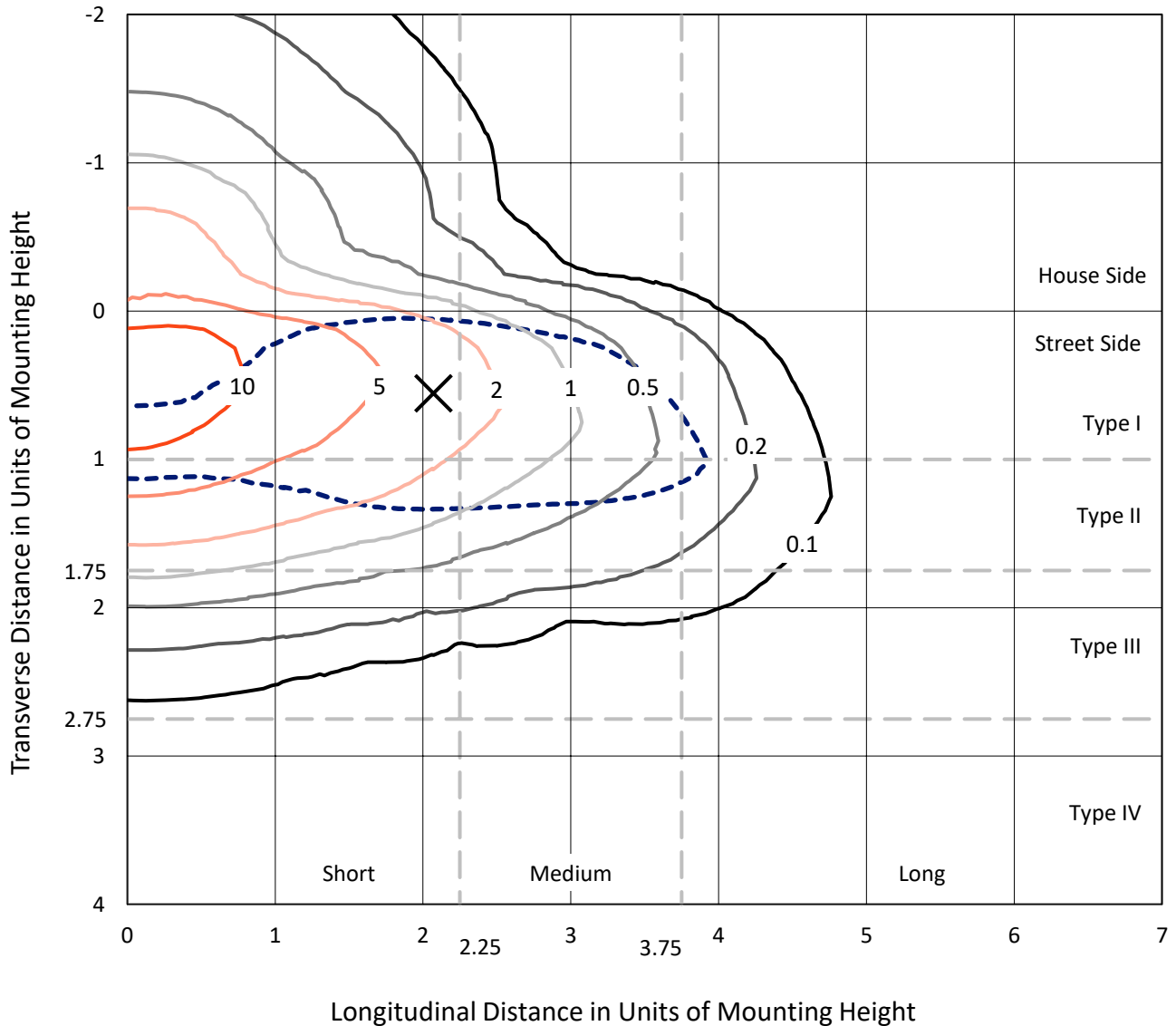
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

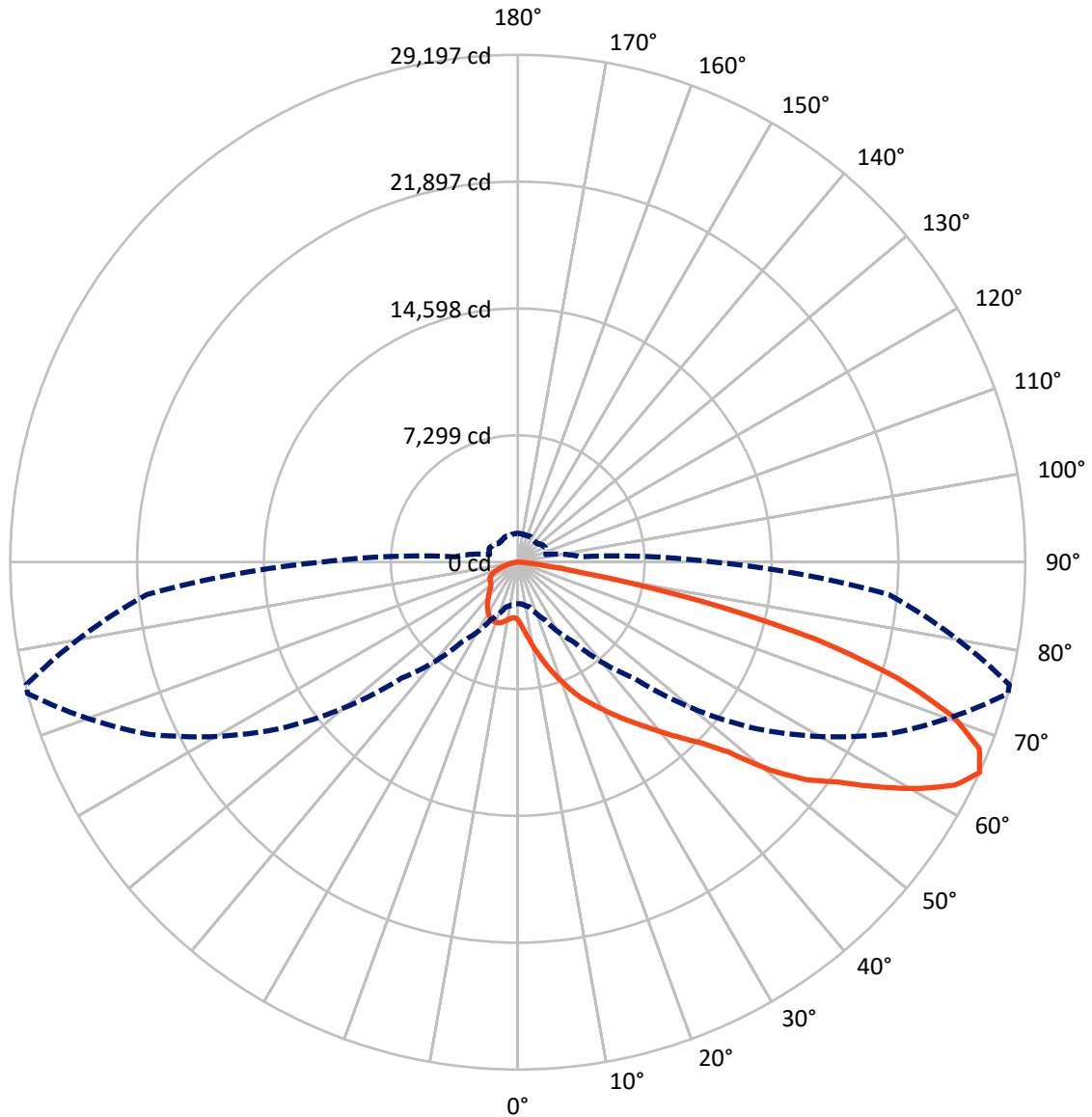
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6032.1 | 0.0 | 6032.1 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 29848.9 | 0.0 | 29848.9 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 35881.0 | 0.0 | 35881.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 405.1 | 1.1 |
| 10°-20° | 1586.5 | 4.4 |
| 20°-30° | 3064.6 | 8.5 |
| 30°-40° | 4977.8 | 13.9 |
| 40°-50° | 6847.5 | 19.1 |
| 50°-60° | 8084.5 | 22.5 |
| 60°-70° | 7083.4 | 19.7 |
| 70°-80° | 3381.7 | 9.4 |
| 80°-90° | 450.0 | 1.3 |
| 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° | 35881.0 | 100.0 |
| 0°-180° | 35881.0 | 100.0 |

Coefficient of Utilization

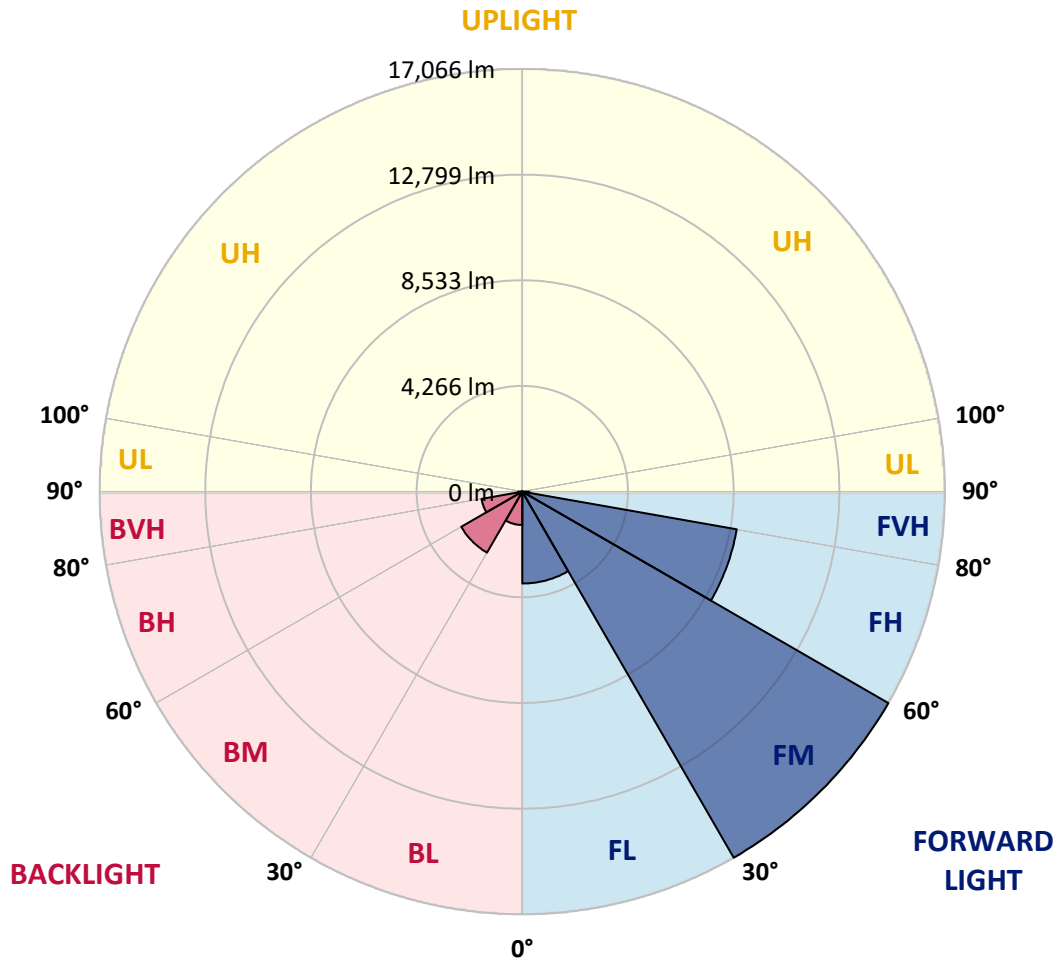


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3709.5 | 10.3 | | | |
| FM | (30°-60°) | 17065.8 | 47.6 | | | |
| FH | (60°-80°) | 8792.5 | 24.5 | | | G4/12000 |
| FVH | (80°-90°) | 281.2 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1346.6 | 3.8 | B3/2500 | | |
| BM | (30°-60°) | 2844.1 | 7.9 | B3/5000 | | |
| BH | (60°-80°) | 1672.6 | 4.7 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 168.8 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 |
| 2.5° | 4429.5 | 4400.3 | 4369.2 | 4283.5 | 4192.1 | 4088.9 | 3941.0 | 3798.9 | 3610.2 | 3604.3 | 3464.2 |
| 5° | 5657.5 | 5638.1 | 5499.9 | 5420.1 | 5208.0 | 4925.8 | 4686.4 | 4314.7 | 3970.2 | 3929.3 | 3656.9 |
| 7.5° | 6786.3 | 6710.4 | 6657.9 | 6513.8 | 6303.7 | 5941.7 | 5478.5 | 4976.4 | 4400.3 | 4345.8 | 3894.3 |
| 10° | 7636.8 | 7629.0 | 7601.8 | 7477.2 | 7319.6 | 6959.5 | 6445.7 | 5725.6 | 4945.2 | 4838.2 | 4182.3 |
| 12.5° | 8273.2 | 8279.0 | 8275.1 | 8273.2 | 8160.3 | 7854.8 | 7298.2 | 6539.1 | 5496.0 | 5420.1 | 4515.1 |
| 15° | 8691.6 | 8750.0 | 8773.4 | 8870.7 | 8880.4 | 8676.0 | 8197.3 | 7325.4 | 6116.8 | 6004.0 | 4873.2 |
| 17.5° | 8968.0 | 8997.2 | 9106.2 | 9271.6 | 9405.9 | 9368.9 | 8942.7 | 8053.3 | 6751.3 | 6562.5 | 5244.9 |
| 20° | 9232.7 | 9283.3 | 9366.9 | 9592.7 | 9830.1 | 9939.1 | 9639.4 | 8798.7 | 7379.9 | 7259.2 | 5655.6 |
| 22.5° | 9783.4 | 9855.4 | 9884.6 | 9999.4 | 10201.9 | 10394.5 | 10258.3 | 9512.9 | 8068.8 | 7905.4 | 6091.5 |
| 25° | 10715.6 | 10791.5 | 10709.8 | 10682.6 | 10748.7 | 10844.1 | 10814.9 | 10186.3 | 8718.9 | 8485.3 | 6504.1 |
| 27.5° | 11930.1 | 11939.8 | 11780.2 | 11628.4 | 11464.9 | 11416.3 | 11326.7 | 10783.8 | 9283.3 | 9088.6 | 6918.7 |
| 30° | 13234.0 | 13187.3 | 12922.6 | 12648.2 | 12371.8 | 12099.4 | 11842.5 | 11359.8 | 9911.9 | 9688.1 | 7325.4 |
| 32.5° | 14444.5 | 14419.2 | 14125.3 | 13699.1 | 13232.0 | 12975.1 | 12455.5 | 11941.7 | 10585.2 | 10369.2 | 7743.8 |
| 35° | 15351.4 | 15388.4 | 15065.3 | 14600.2 | 14090.3 | 13862.6 | 13206.7 | 12552.8 | 11282.0 | 11046.5 | 8199.2 |
| 37.5° | 15995.6 | 15976.2 | 15690.1 | 15287.2 | 14839.6 | 14641.1 | 14084.5 | 13220.4 | 12031.3 | 11805.5 | 8697.5 |
| 40° | 16225.3 | 16213.6 | 16001.5 | 15707.6 | 15423.4 | 15353.4 | 15003.1 | 13940.5 | 12889.5 | 12624.8 | 9296.9 |
| 42.5° | 16079.3 | 16104.6 | 15964.5 | 15884.7 | 15832.1 | 15882.7 | 15915.8 | 14884.3 | 13825.6 | 13582.4 | 9946.9 |
| 45° | 15631.7 | 15618.1 | 15598.6 | 15729.0 | 16024.8 | 16357.6 | 16818.8 | 15775.7 | 14843.5 | 14648.9 | 10818.8 |
| 47.5° | 14831.8 | 14929.1 | 14977.8 | 15337.8 | 15983.9 | 16772.1 | 17858.1 | 16970.6 | 16320.6 | 16151.3 | 12148.0 |
| 50° | 13712.8 | 13790.6 | 14078.6 | 14718.9 | 15682.3 | 16927.8 | 18874.0 | 18924.6 | 18784.5 | 18467.3 | 13592.1 |
| 52.5° | 11965.1 | 12085.7 | 12679.3 | 13852.9 | 15063.4 | 16863.6 | 19489.0 | 20600.3 | 20785.2 | 20547.7 | 15014.7 |
| 55° | 10009.2 | 10178.5 | 10805.2 | 12344.6 | 14211.0 | 16513.3 | 19913.3 | 21571.4 | 22309.0 | 22089.1 | 16384.8 |
| 57.5° | 8094.1 | 8273.2 | 8917.4 | 10408.1 | 12724.1 | 15738.7 | 20191.6 | 22653.5 | 24383.6 | 24097.5 | 18089.7 |
| 60° | 6066.2 | 6253.1 | 6805.8 | 8341.3 | 10606.7 | 14224.6 | 20002.8 | 23591.5 | 26456.3 | 26333.7 | 19796.5 |
| 62.5° | 3913.8 | 4120.1 | 4600.8 | 5871.6 | 8152.5 | 12155.8 | 18992.7 | 24109.2 | 28250.7 | 28102.8 | 21042.0 |
| 65° | 2384.1 | 2407.4 | 2672.1 | 3645.2 | 5579.7 | 9411.7 | 16682.6 | 23422.2 | 29196.5 | 29151.8 | 21421.6 |
| 67.5° | 1541.4 | 1578.3 | 1699.0 | 2183.6 | 3345.5 | 6537.2 | 13339.1 | 21154.9 | 28643.8 | 28628.2 | 20637.2 |
| 70° | 1302.0 | 1313.7 | 1368.2 | 1473.3 | 1944.2 | 3964.4 | 9366.9 | 17540.9 | 26543.9 | 26543.9 | 18751.4 |
| 72.5° | 1163.8 | 1179.4 | 1198.8 | 1231.9 | 1387.6 | 2245.9 | 5589.4 | 13654.4 | 22918.2 | 23070.0 | 15960.6 |
| 75° | 1056.8 | 1052.9 | 1064.6 | 1070.4 | 1183.3 | 1467.4 | 2890.1 | 10098.7 | 17729.7 | 17426.1 | 11558.3 |
| 77.5° | 905.0 | 910.8 | 905.0 | 930.3 | 1045.1 | 1117.1 | 1467.4 | 6776.6 | 10744.8 | 10351.7 | 5801.5 |
| 80° | 743.4 | 753.2 | 762.9 | 778.5 | 893.3 | 848.5 | 881.6 | 3088.6 | 3974.1 | 3890.4 | 1792.4 |
| 82.5° | 558.6 | 572.2 | 587.7 | 624.7 | 702.6 | 560.5 | 556.6 | 1319.5 | 1434.3 | 1313.7 | 659.8 |
| 85° | 225.8 | 266.6 | 402.9 | 439.8 | 441.8 | 307.5 | 342.5 | 550.8 | 585.8 | 572.2 | 258.8 |
| 87.5° | 52.5 | 62.3 | 130.4 | 196.6 | 181.0 | 114.8 | 126.5 | 179.0 | 204.3 | 188.8 | 87.6 |
| 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-SA5C-750-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 | 3333.8 |
| 2.5° | 3400.0 | 3331.9 | 3215.1 | 3125.6 | 3061.3 | 3004.9 | 2969.9 | 2948.5 | 2940.7 | 2938.7 | 2940.7 |
| 5° | 3514.8 | 3394.1 | 3209.2 | 3092.5 | 3028.2 | 2991.3 | 2969.9 | 2967.9 | 2969.9 | 2971.8 | 2966.0 |
| 7.5° | 3672.4 | 3499.2 | 3257.9 | 3148.9 | 3100.3 | 3073.0 | 3063.3 | 3059.4 | 3061.3 | 3059.4 | 3059.4 |
| 10° | 3882.6 | 3645.2 | 3353.3 | 3240.4 | 3199.5 | 3168.4 | 3152.8 | 3143.1 | 3135.3 | 3127.5 | 3123.6 |
| 12.5° | 4114.2 | 3806.7 | 3456.4 | 3347.4 | 3289.0 | 3240.4 | 3205.4 | 3180.1 | 3162.5 | 3145.0 | 3141.1 |
| 15° | 4373.1 | 3978.0 | 3571.2 | 3419.4 | 3335.7 | 3263.7 | 3203.4 | 3162.5 | 3131.4 | 3106.1 | 3104.1 |
| 17.5° | 4620.2 | 4139.5 | 3649.1 | 3452.5 | 3329.9 | 3228.7 | 3148.9 | 3092.5 | 3053.5 | 3020.5 | 3016.6 |
| 20° | 4884.9 | 4293.3 | 3684.1 | 3431.1 | 3271.5 | 3148.9 | 3043.8 | 2975.7 | 2930.9 | 2894.0 | 2888.1 |
| 22.5° | 5151.5 | 4423.7 | 3680.2 | 3363.0 | 3170.3 | 3026.3 | 2915.4 | 2843.4 | 2790.8 | 2753.8 | 2740.2 |
| 25° | 5406.5 | 4528.7 | 3631.6 | 3254.0 | 3030.2 | 2880.3 | 2767.5 | 2701.3 | 2654.6 | 2609.8 | 2609.8 |
| 27.5° | 5636.1 | 4591.0 | 3540.1 | 3121.7 | 2886.2 | 2728.5 | 2639.0 | 2578.7 | 2535.9 | 2506.7 | 2489.2 |
| 30° | 5861.9 | 4620.2 | 3415.5 | 2954.3 | 2734.4 | 2600.1 | 2528.1 | 2493.1 | 2454.1 | 2421.0 | 2417.1 |
| 32.5° | 6064.3 | 4614.4 | 3259.8 | 2790.8 | 2590.4 | 2495.0 | 2465.8 | 2438.6 | 2397.7 | 2351.0 | 2339.3 |
| 35° | 6260.8 | 4575.5 | 3075.0 | 2611.8 | 2469.7 | 2432.7 | 2440.5 | 2401.6 | 2327.6 | 2269.2 | 2259.5 |
| 37.5° | 6474.9 | 4505.4 | 2872.6 | 2465.8 | 2368.5 | 2403.5 | 2423.0 | 2337.4 | 2216.7 | 2125.2 | 2103.8 |
| 40° | 6722.1 | 4425.6 | 2662.4 | 2319.8 | 2288.7 | 2376.3 | 2376.3 | 2218.6 | 2053.2 | 1996.8 | 1981.2 |
| 42.5° | 7012.1 | 4359.4 | 2487.2 | 2197.2 | 2222.5 | 2310.1 | 2300.4 | 2061.0 | 1992.9 | 1963.7 | 1955.9 |
| 45° | 7471.4 | 4336.1 | 2306.2 | 2090.2 | 2168.0 | 2232.3 | 2152.5 | 2006.5 | 1967.6 | 1944.2 | 1936.4 |
| 47.5° | 8197.3 | 4363.3 | 2146.6 | 2010.4 | 2105.8 | 2154.4 | 1987.0 | 1969.5 | 1942.3 | 1909.2 | 1905.3 |
| 50° | 8870.7 | 4338.0 | 2033.8 | 1965.6 | 2051.3 | 2061.0 | 1918.9 | 1924.8 | 1909.2 | 1872.2 | 1864.4 |
| 52.5° | 9421.4 | 4258.2 | 1961.7 | 1942.3 | 2004.6 | 1897.5 | 1854.7 | 1876.1 | 1870.3 | 1823.6 | 1815.8 |
| 55° | 10026.7 | 4209.6 | 1926.7 | 1942.3 | 1973.4 | 1755.5 | 1794.4 | 1825.5 | 1817.7 | 1784.6 | 1782.7 |
| 57.5° | 10760.4 | 4219.3 | 1901.4 | 1948.1 | 1942.3 | 1683.4 | 1734.0 | 1771.0 | 1769.1 | 1759.3 | 1759.3 |
| 60° | 11511.6 | 4223.2 | 1862.5 | 1946.2 | 1905.3 | 1627.0 | 1671.8 | 1724.3 | 1728.2 | 1734.0 | 1734.0 |
| 62.5° | 11760.7 | 4053.9 | 1786.6 | 1911.1 | 1823.6 | 1572.5 | 1613.4 | 1685.4 | 1681.5 | 1697.1 | 1699.0 |
| 65° | 11295.6 | 3584.9 | 1673.7 | 1831.4 | 1718.5 | 1533.6 | 1568.6 | 1634.8 | 1613.4 | 1654.2 | 1662.0 |
| 67.5° | 10281.6 | 2966.0 | 1498.6 | 1687.3 | 1601.7 | 1492.7 | 1539.4 | 1564.7 | 1525.8 | 1605.6 | 1607.5 |
| 70° | 8886.2 | 2315.9 | 1276.7 | 1483.0 | 1469.4 | 1449.9 | 1516.1 | 1477.1 | 1422.7 | 1520.0 | 1500.5 |
| 72.5° | 7430.5 | 1769.1 | 1019.8 | 1212.5 | 1292.3 | 1385.7 | 1475.2 | 1364.3 | 1288.4 | 1317.6 | 1282.5 |
| 75° | 5581.6 | 1307.8 | 819.3 | 949.7 | 1076.2 | 1294.2 | 1438.2 | 1228.0 | 1111.3 | 1084.0 | 1076.2 |
| 77.5° | 2845.3 | 854.4 | 613.0 | 710.4 | 807.7 | 1169.7 | 1387.6 | 1068.5 | 920.5 | 877.7 | 858.3 |
| 80° | 1015.9 | 531.3 | 432.1 | 490.4 | 544.9 | 1006.2 | 1212.5 | 883.6 | 714.2 | 706.5 | 714.2 |
| 82.5° | 471.0 | 342.5 | 290.0 | 321.1 | 323.1 | 671.4 | 924.4 | 659.8 | 543.0 | 825.2 | 696.7 |
| 85° | 202.4 | 171.3 | 163.5 | 159.6 | 147.9 | 299.7 | 519.6 | 354.2 | 552.7 | 247.2 | 227.7 |
| 87.5° | 60.3 | 68.1 | 60.3 | 44.8 | 33.1 | 33.1 | 52.5 | 19.5 | 13.6 | 9.7 | 9.7 |
| 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)