

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: P456945

Luminaire Tested: **GLAN-SA8B-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27798 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

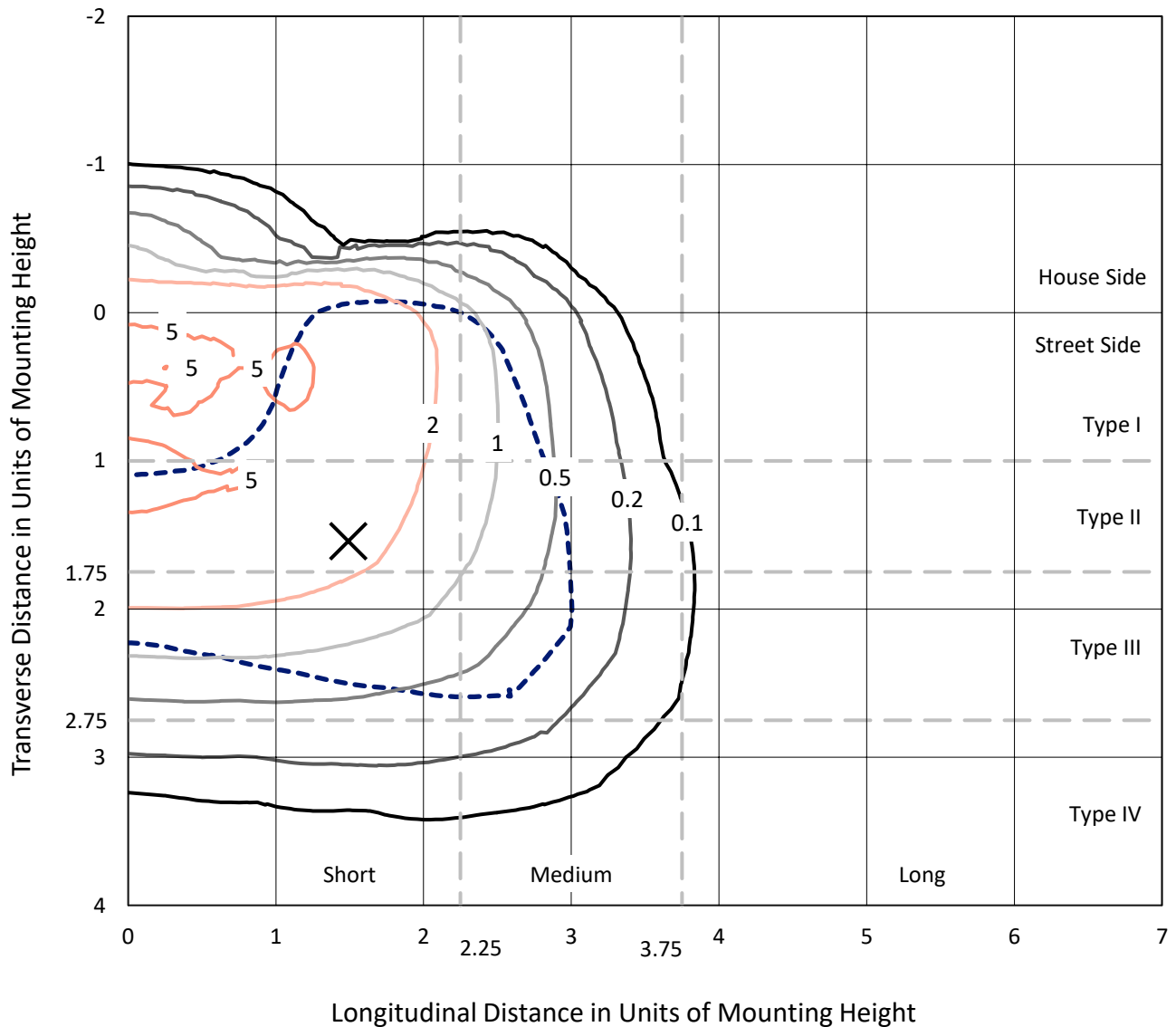
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

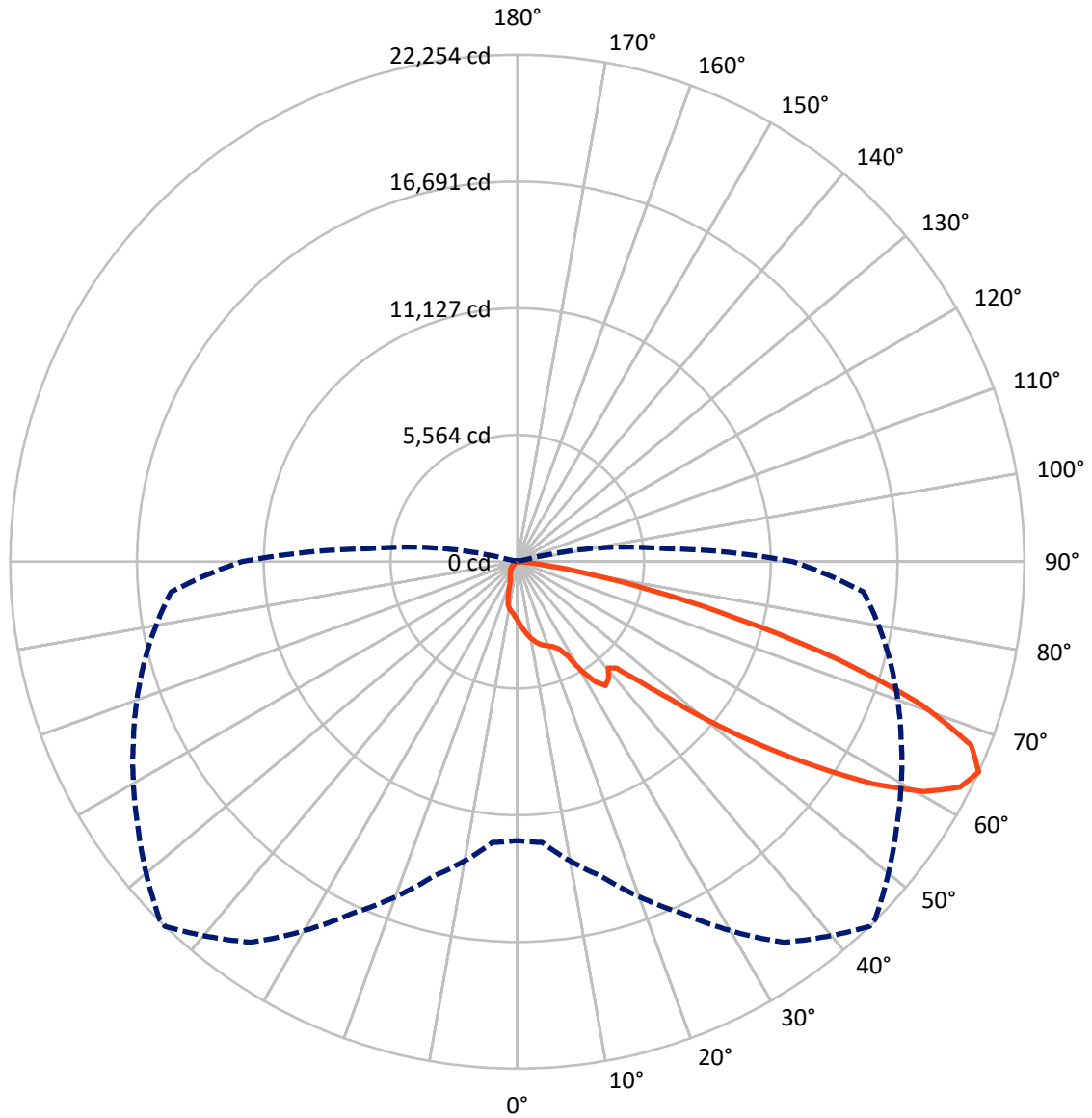
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2561.2 | 0.0 | 2561.2 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 25236.8 | 0.0 | 25236.8 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 27798.0 | 0.0 | 27798.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 257.3 | 0.9 |
| 10°-20° | 774.4 | 2.8 |
| 20°-30° | 1313.2 | 4.7 |
| 30°-40° | 2183.4 | 7.9 |
| 40°-50° | 3812.3 | 13.7 |
| 50°-60° | 7447.8 | 26.8 |
| 60°-70° | 8641.2 | 31.1 |
| 70°-80° | 3146.7 | 11.3 |
| 80°-90° | 221.7 | 0.8 |
| 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° | 27798.0 | 100.0 |
| 0°-180° | 27798.0 | 100.0 |

Coefficient of Utilization



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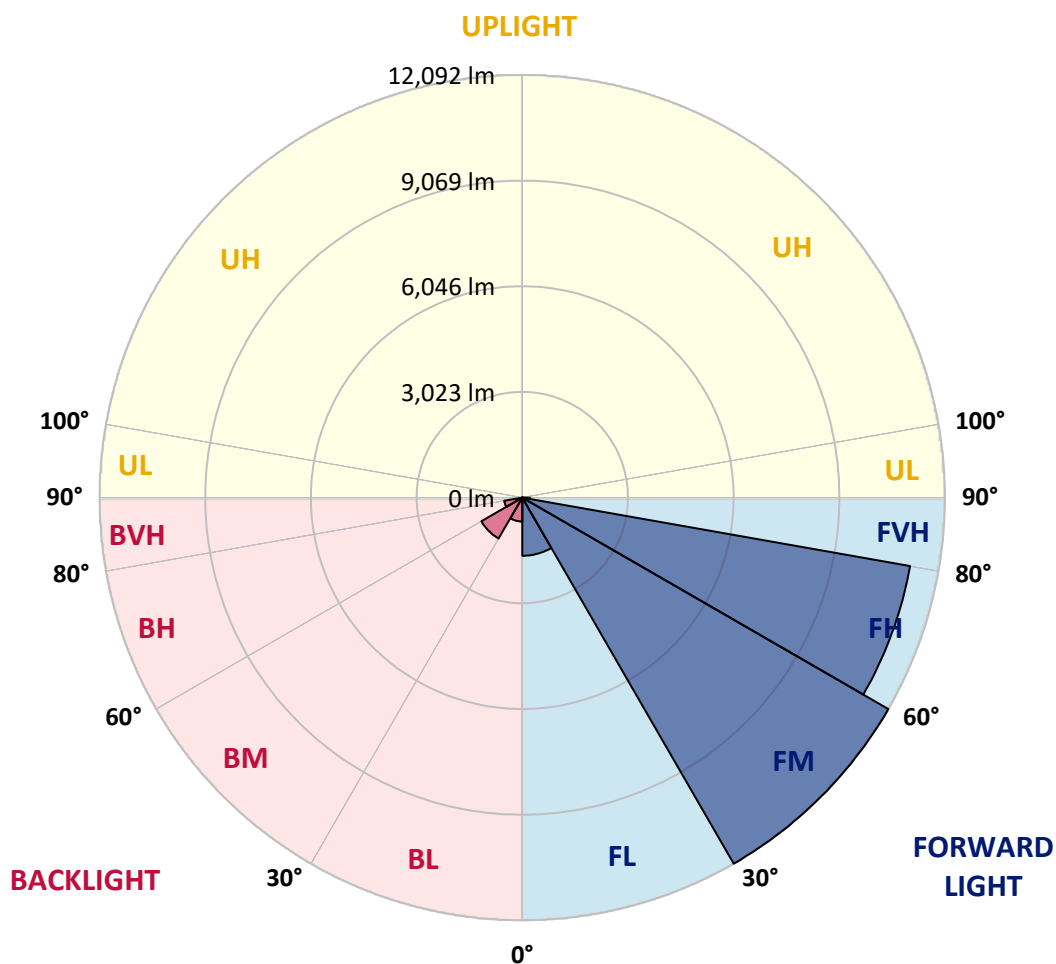
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1662.6 | 6.0 | | | |
| FM | (30°-60°) | 12092.2 | 43.5 | | | |
| FH | (60°-80°) | 11263.4 | 40.5 | | | G4/12000 |
| FVH | (80°-90°) | 218.7 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 682.4 | 2.5 | B2/1000 | | |
| BM | (30°-60°) | 1351.3 | 4.9 | B2/2500 | | |
| BH | (60°-80°) | 524.5 | 1.9 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 3.0 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2587.2 | 2587.2 | 2587.2 | 2587.2 | 2587.2 | 2587.2 | 2587.2 | 2587.2 | 2587.2 | 2587.2 | 2587.2 |
| 2.5° | 2912.2 | 2899.4 | 2893.0 | 2859.1 | 2833.6 | 2801.7 | 2801.7 | 2761.3 | 2714.6 | 2663.6 | 2616.9 |
| 5° | 3237.1 | 3215.9 | 3188.3 | 3158.6 | 3099.1 | 3014.1 | 3014.1 | 2929.1 | 2831.4 | 2744.3 | 2648.8 |
| 7.5° | 3549.4 | 3530.3 | 3483.5 | 3426.2 | 3328.5 | 3239.3 | 3232.9 | 3109.7 | 2992.9 | 2861.2 | 2725.2 |
| 10° | 3823.4 | 3808.5 | 3768.2 | 3657.7 | 3555.8 | 3438.9 | 3436.8 | 3298.7 | 3162.8 | 3001.4 | 2833.6 |
| 12.5° | 4014.6 | 4016.7 | 3963.6 | 3857.4 | 3725.7 | 3615.2 | 3606.7 | 3470.8 | 3328.5 | 3154.3 | 2948.3 |
| 15° | 4150.5 | 4150.5 | 4095.3 | 3976.3 | 3857.4 | 3759.7 | 3751.2 | 3632.2 | 3485.7 | 3296.6 | 3073.6 |
| 17.5° | 4188.7 | 4201.5 | 4142.0 | 4035.8 | 3940.2 | 3855.3 | 3853.1 | 3753.3 | 3636.5 | 3453.8 | 3201.0 |
| 20° | 4173.9 | 4186.6 | 4139.9 | 4057.0 | 3991.2 | 3942.3 | 3936.0 | 3895.6 | 3787.3 | 3615.2 | 3337.0 |
| 22.5° | 4142.0 | 4154.8 | 4120.8 | 4071.9 | 4040.1 | 4054.9 | 4044.3 | 4078.3 | 4020.9 | 3812.8 | 3498.4 |
| 25° | 4148.4 | 4161.1 | 4135.6 | 4108.0 | 4135.6 | 4227.0 | 4254.6 | 4401.2 | 4350.2 | 4063.4 | 3672.6 |
| 27.5° | 4348.1 | 4373.5 | 4337.4 | 4350.2 | 4447.9 | 4660.3 | 4713.4 | 4966.2 | 4741.0 | 4382.0 | 3944.5 |
| 30° | 4792.0 | 4775.0 | 4707.0 | 4768.6 | 5108.5 | 5558.8 | 5543.9 | 5503.6 | 5151.0 | 4749.5 | 4267.3 |
| 32.5° | 5195.6 | 5180.7 | 5176.5 | 5442.0 | 6058.0 | 6276.7 | 6266.1 | 5875.3 | 5518.4 | 5170.1 | 4586.0 |
| 35° | 5359.1 | 5301.8 | 5289.0 | 5932.6 | 6962.8 | 6674.0 | 6608.1 | 6028.2 | 5964.5 | 5628.9 | 4910.9 |
| 37.5° | 5851.9 | 5811.6 | 5614.0 | 6013.4 | 6601.7 | 6506.1 | 6455.2 | 6291.6 | 6440.3 | 6034.6 | 5278.4 |
| 40° | 6867.2 | 6754.7 | 6576.2 | 6185.4 | 6089.8 | 6130.2 | 6181.2 | 6629.3 | 7003.2 | 6589.0 | 5769.1 |
| 42.5° | 8129.0 | 8103.5 | 7772.1 | 7043.5 | 6327.7 | 6382.9 | 6448.8 | 7334.5 | 7812.5 | 7423.8 | 6569.9 |
| 45° | 9643.5 | 9679.6 | 9201.6 | 8341.4 | 7402.5 | 7449.3 | 7544.8 | 8375.4 | 8908.5 | 8721.6 | 7829.5 |
| 47.5° | 11019.9 | 10992.3 | 10830.8 | 9936.6 | 9069.9 | 8965.9 | 9120.9 | 9711.4 | 10425.1 | 10454.9 | 9392.8 |
| 50° | 12404.8 | 12551.4 | 12311.3 | 11960.9 | 11317.3 | 11098.5 | 11041.1 | 11330.0 | 12417.5 | 12275.2 | 11270.5 |
| 52.5° | 14395.1 | 14471.6 | 14021.2 | 13932.0 | 14078.6 | 13369.1 | 13311.8 | 13381.9 | 14354.7 | 13866.2 | 12676.7 |
| 55° | 15646.2 | 15601.6 | 15433.8 | 16130.5 | 16710.4 | 15824.6 | 15752.4 | 15469.9 | 15962.7 | 14989.8 | 14029.7 |
| 57.5° | 16041.3 | 16105.0 | 16495.8 | 17755.4 | 19127.6 | 18375.7 | 18244.0 | 17441.1 | 17122.4 | 16037.0 | 15274.5 |
| 60° | 15865.0 | 15981.8 | 16825.1 | 18698.5 | 20601.7 | 20489.2 | 20376.6 | 19027.8 | 17955.1 | 16912.2 | 16147.5 |
| 62.5° | 14609.6 | 14773.2 | 16122.0 | 18530.7 | 21100.9 | 21804.0 | 21663.8 | 20017.6 | 18509.5 | 17337.0 | 16300.4 |
| 65° | 12243.4 | 12364.4 | 14301.6 | 17007.7 | 20391.4 | 22254.3 | 22203.3 | 20327.7 | 18596.6 | 16948.3 | 15253.2 |
| 67.5° | 8728.0 | 9140.0 | 10934.9 | 14333.5 | 18292.8 | 21485.4 | 21572.5 | 19956.0 | 17778.8 | 15268.1 | 12632.1 |
| 70° | 5486.6 | 5767.0 | 7054.2 | 10261.6 | 14664.8 | 18849.3 | 19136.1 | 18254.6 | 15429.5 | 11901.4 | 8456.1 |
| 72.5° | 2616.9 | 2825.1 | 3742.7 | 6495.5 | 10350.8 | 14830.5 | 15057.8 | 14985.6 | 11931.1 | 7498.1 | 4362.9 |
| 75° | 1166.1 | 1244.7 | 1786.4 | 3315.7 | 6682.4 | 9968.4 | 10556.8 | 10654.5 | 7455.6 | 3668.3 | 1697.2 |
| 77.5° | 594.8 | 596.9 | 836.9 | 1605.8 | 3337.0 | 5947.5 | 6064.3 | 6406.3 | 4042.2 | 1616.4 | 590.5 |
| 80° | 316.5 | 337.7 | 443.9 | 758.3 | 1731.1 | 2929.1 | 2914.3 | 3203.2 | 1792.7 | 792.3 | 197.5 |
| 82.5° | 142.3 | 157.2 | 250.6 | 397.2 | 845.4 | 1110.9 | 1198.0 | 1310.6 | 768.9 | 505.5 | 87.1 |
| 85° | 42.5 | 51.0 | 123.2 | 199.7 | 305.9 | 320.7 | 359.0 | 463.1 | 435.4 | 359.0 | 44.6 |
| 87.5° | 6.4 | 6.4 | 51.0 | 55.2 | 44.6 | 57.4 | 59.5 | 65.8 | 140.2 | 131.7 | 23.4 |
| 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-SA8B-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2587.2 | 2587.2 | 2587.2 | 2587.2 | 2587.2 | 2587.2 | 2587.2 | 2587.2 | 2587.2 | 2587.2 | 2587.2 |
| 2.5° | 2591.4 | 2576.5 | 2523.4 | 2478.8 | 2440.6 | 2417.2 | 2389.6 | 2372.6 | 2364.1 | 2357.8 | 2359.9 |
| 5° | 2602.0 | 2565.9 | 2474.6 | 2402.4 | 2347.1 | 2287.7 | 2247.3 | 2223.9 | 2213.3 | 2196.3 | 2196.3 |
| 7.5° | 2661.5 | 2604.2 | 2476.7 | 2366.3 | 2270.7 | 2190.0 | 2113.5 | 2085.9 | 2066.8 | 2062.5 | 2058.3 |
| 10° | 2746.5 | 2674.3 | 2500.1 | 2347.1 | 2211.2 | 2100.7 | 1992.4 | 1896.8 | 1822.5 | 1777.9 | 1771.5 |
| 12.5° | 2852.7 | 2748.6 | 2536.2 | 2334.4 | 2160.2 | 1964.8 | 1678.0 | 1484.8 | 1355.2 | 1314.8 | 1321.2 |
| 15° | 2950.4 | 2837.8 | 2572.3 | 2323.8 | 2066.8 | 1629.2 | 1304.2 | 1083.3 | 1017.4 | 1011.1 | 1013.2 |
| 17.5° | 3067.2 | 2933.4 | 2614.8 | 2308.9 | 1809.7 | 1244.7 | 968.6 | 909.1 | 921.9 | 943.1 | 941.0 |
| 20° | 3188.3 | 3035.4 | 2665.8 | 2219.7 | 1444.4 | 936.7 | 856.0 | 862.4 | 881.5 | 900.6 | 904.9 |
| 22.5° | 3317.9 | 3152.2 | 2725.2 | 2005.2 | 1102.4 | 815.7 | 811.4 | 819.9 | 839.0 | 860.3 | 864.5 |
| 25° | 3496.3 | 3298.7 | 2769.8 | 1724.8 | 834.8 | 754.1 | 762.6 | 777.4 | 794.4 | 817.8 | 822.0 |
| 27.5° | 3725.7 | 3496.3 | 2793.2 | 1359.4 | 722.2 | 698.8 | 701.0 | 722.2 | 743.4 | 764.7 | 764.7 |
| 30° | 4023.1 | 3732.1 | 2746.5 | 1028.1 | 667.0 | 645.7 | 637.2 | 650.0 | 677.6 | 698.8 | 701.0 |
| 32.5° | 4288.6 | 3955.1 | 2623.3 | 785.9 | 626.6 | 596.9 | 575.6 | 577.8 | 588.4 | 601.1 | 603.2 |
| 35° | 4554.1 | 4171.8 | 2413.0 | 660.6 | 584.1 | 550.1 | 518.3 | 501.3 | 492.8 | 486.4 | 492.8 |
| 37.5° | 4893.9 | 4441.5 | 2132.6 | 601.1 | 548.0 | 505.5 | 460.9 | 424.8 | 395.1 | 376.0 | 380.2 |
| 40° | 5331.5 | 4815.4 | 1801.2 | 562.9 | 514.0 | 463.1 | 403.6 | 356.9 | 305.9 | 288.9 | 280.4 |
| 42.5° | 6053.7 | 5382.5 | 1452.9 | 531.0 | 480.0 | 418.4 | 344.1 | 280.4 | 233.7 | 216.7 | 220.9 |
| 45° | 7194.4 | 6098.3 | 1119.4 | 497.0 | 446.1 | 369.6 | 288.9 | 220.9 | 182.7 | 174.2 | 178.4 |
| 47.5° | 8706.7 | 7024.4 | 862.4 | 458.8 | 403.6 | 316.5 | 227.3 | 174.2 | 150.8 | 148.7 | 146.6 |
| 50° | 10129.9 | 7886.8 | 720.1 | 416.3 | 352.6 | 263.4 | 186.9 | 146.6 | 131.7 | 129.6 | 129.6 |
| 52.5° | 11417.1 | 8504.9 | 586.3 | 367.5 | 297.4 | 216.7 | 157.2 | 129.6 | 116.8 | 110.5 | 110.5 |
| 55° | 12562.0 | 8908.5 | 475.8 | 308.0 | 233.7 | 172.1 | 135.9 | 116.8 | 102.0 | 93.5 | 91.3 |
| 57.5° | 13426.5 | 8957.4 | 356.9 | 246.4 | 174.2 | 133.8 | 116.8 | 102.0 | 85.0 | 74.3 | 70.1 |
| 60° | 13796.1 | 8534.7 | 263.4 | 186.9 | 129.6 | 106.2 | 93.5 | 82.8 | 63.7 | 53.1 | 51.0 |
| 62.5° | 13424.4 | 7712.6 | 195.4 | 142.3 | 99.8 | 78.6 | 65.8 | 61.6 | 44.6 | 31.9 | 29.7 |
| 65° | 12092.6 | 6525.3 | 155.1 | 108.3 | 74.3 | 57.4 | 42.5 | 40.4 | 27.6 | 14.9 | 12.7 |
| 67.5° | 9688.1 | 5110.6 | 123.2 | 80.7 | 53.1 | 38.2 | 27.6 | 25.5 | 14.9 | 4.2 | 4.2 |
| 70° | 6300.1 | 3266.9 | 99.8 | 59.5 | 34.0 | 25.5 | 17.0 | 12.7 | 8.5 | 2.1 | 0.0 |
| 72.5° | 3116.1 | 1527.2 | 80.7 | 46.7 | 23.4 | 12.7 | 6.4 | 4.2 | 6.4 | 0.0 | 0.0 |
| 75° | 1208.6 | 543.8 | 59.5 | 31.9 | 12.7 | 6.4 | 4.2 | 0.0 | 2.1 | 0.0 | 0.0 |
| 77.5° | 401.5 | 180.5 | 36.1 | 17.0 | 8.5 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 148.7 | 70.1 | 19.1 | 10.6 | 4.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 59.5 | 27.6 | 12.7 | 8.5 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 29.7 | 17.0 | 8.5 | 6.4 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 21.2 | 12.7 | 8.5 | 6.4 | 4.2 | 2.1 | 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)