

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: P456792

Luminaire Tested: **GLAN-SA8A-750-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-750-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29565 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

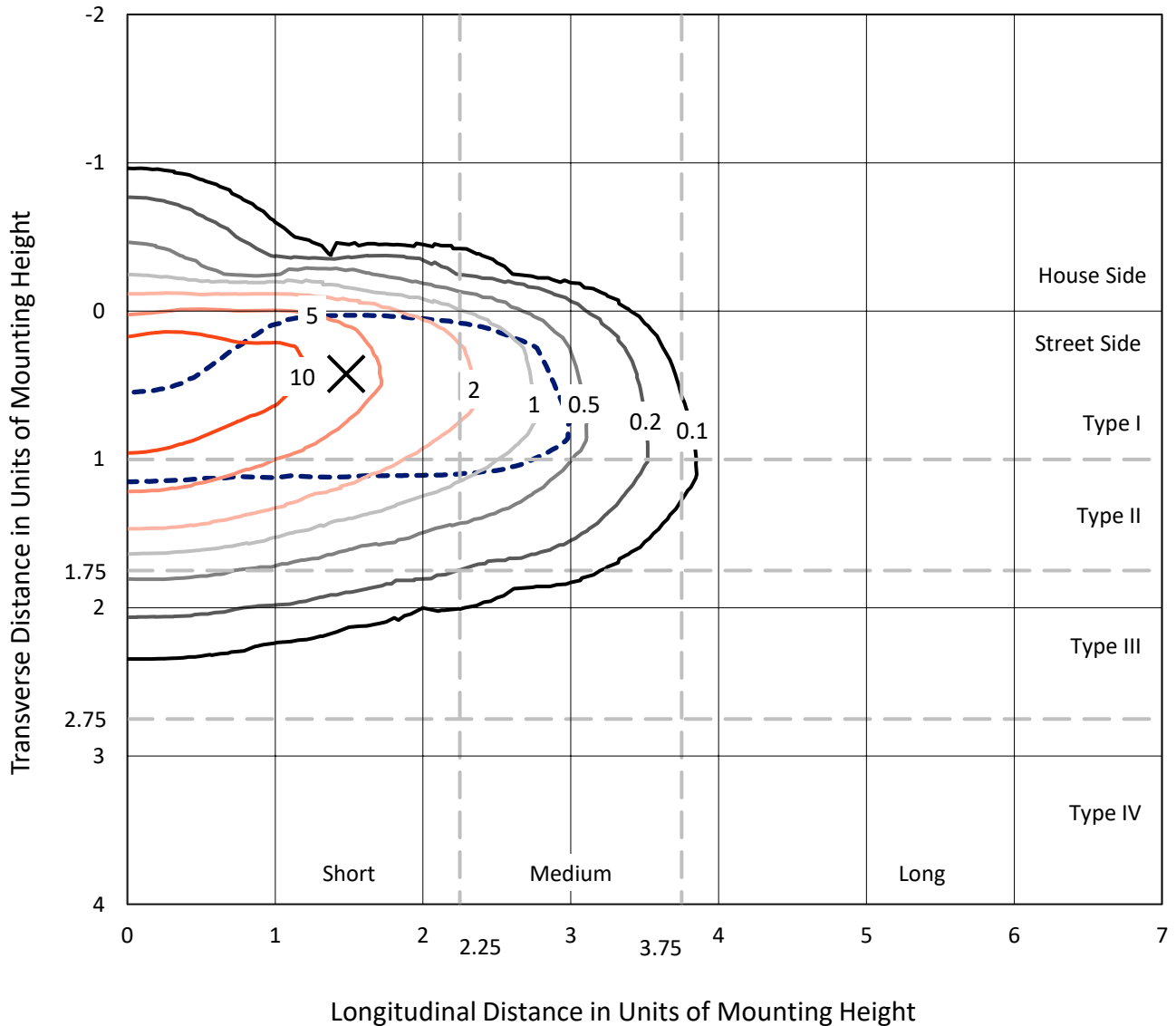
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

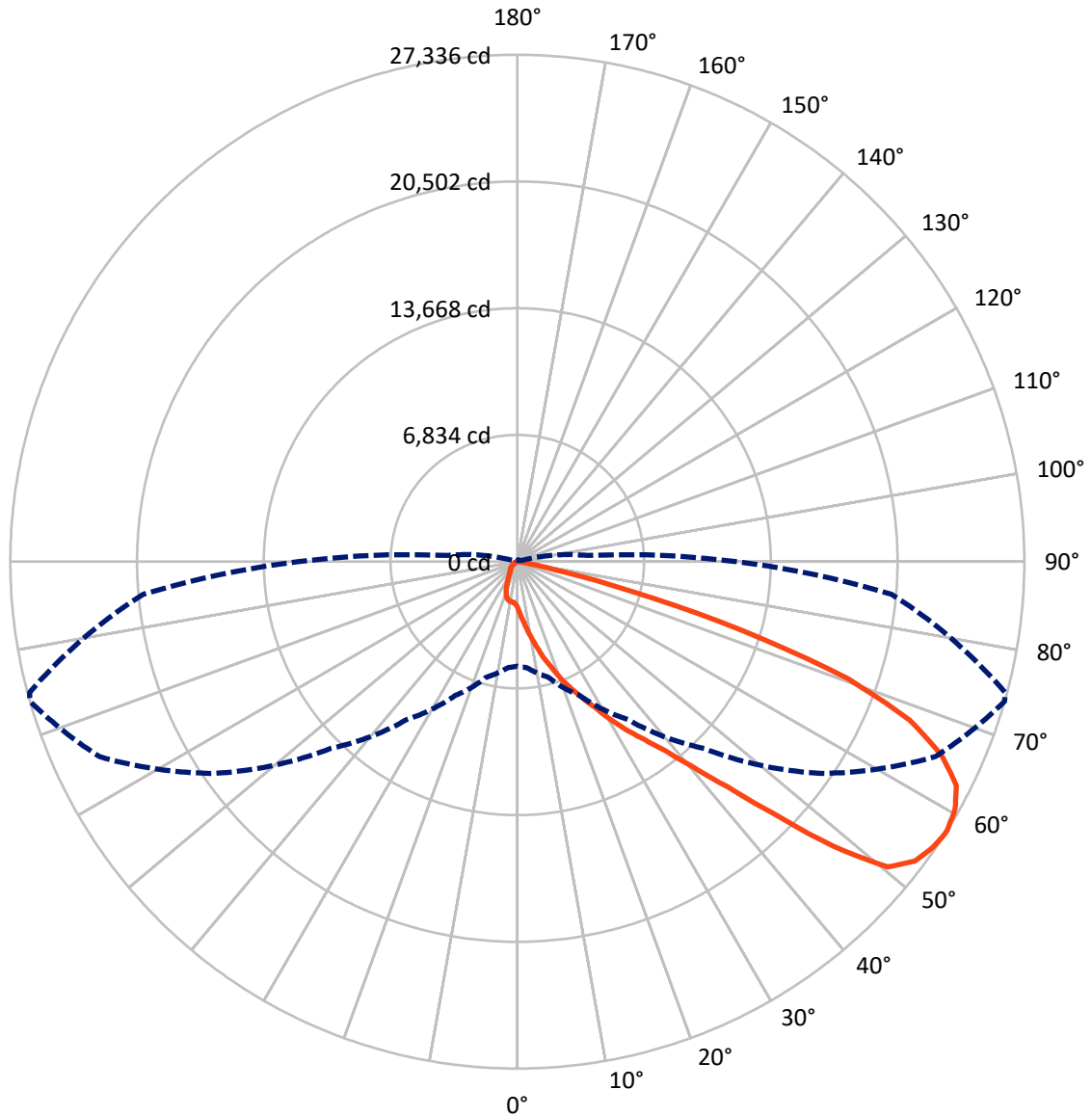
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1705.2 | 0.0 | 1705.2 |
| | % Fixture | 5.8 | 0.0 | 5.8 |
| Street Side | Lumens | 27859.8 | 0.0 | 27859.8 |
| | % Fixture | 94.2 | 0.0 | 94.2 |
| Total | Lumens | 29565.0 | 0.0 | 29565.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 298.9 | 1.0 |
| 10°-20° | 1178.0 | 4.0 |
| 20°-30° | 2520.6 | 8.5 |
| 30°-40° | 4632.9 | 15.7 |
| 40°-50° | 7102.3 | 24.0 |
| 50°-60° | 7513.2 | 25.4 |
| 60°-70° | 4906.3 | 16.6 |
| 70°-80° | 1340.6 | 4.5 |
| 80°-90° | 72.2 | 0.2 |
| 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° | 29565.0 | 100.0 |
| 0°-180° | 29565.0 | 100.0 |

Coefficient of Utilization



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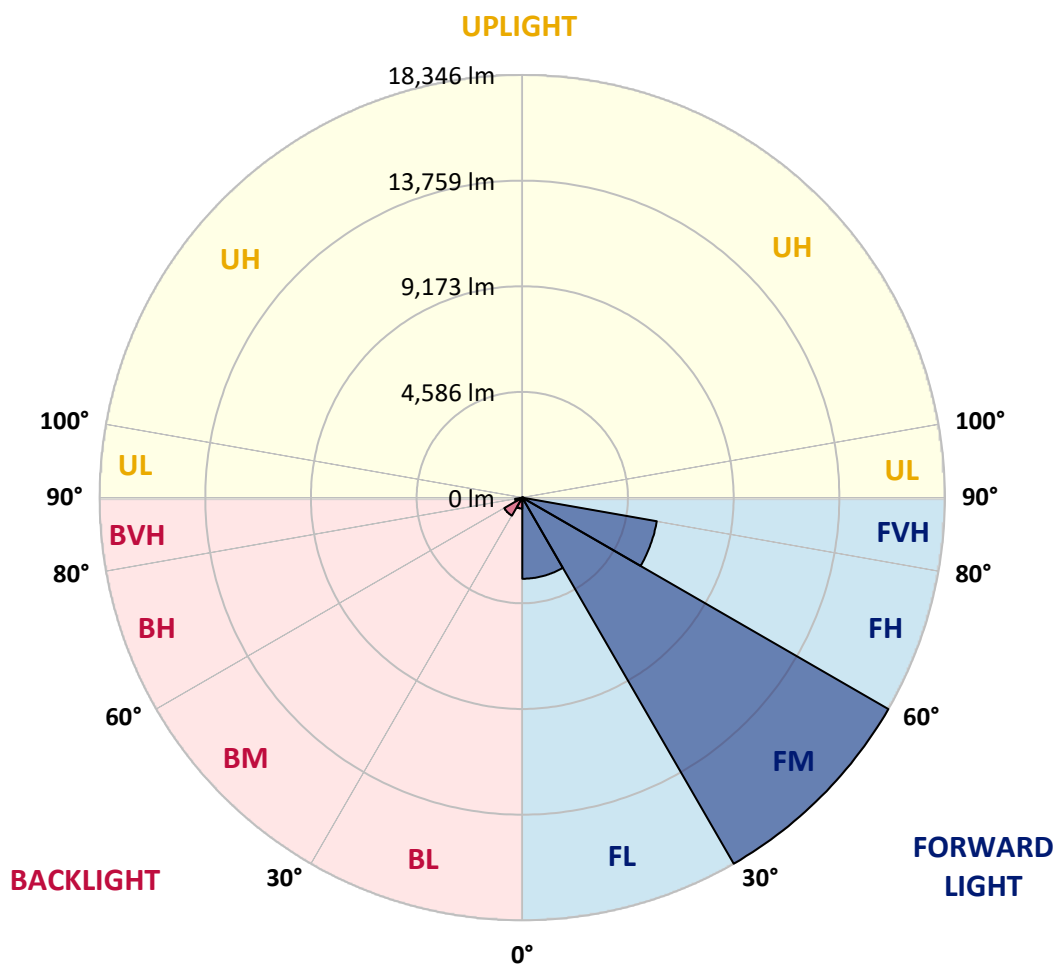
CATALOG NUMBER: GLAN-SA8A-750-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3521.1 | 11.9 | | | |
| FM | (30°-60°) | 18345.6 | 62.1 | | | |
| FH | (60°-80°) | 5926.8 | 20.0 | | | G3/7500 |
| FVH | (80°-90°) | 66.2 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 476.3 | 1.6 | B1/500 | | |
| BM | (30°-60°) | 902.8 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 320.1 | 1.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 6.0 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2476.0 | 2476.0 | 2476.0 | 2476.0 | 2476.0 | 2476.0 | 2476.0 | 2476.0 | 2476.0 | 2476.0 | 2476.0 |
| 2.5° | 3623.2 | 3590.6 | 3525.2 | 3502.8 | 3406.8 | 3257.8 | 3127.2 | 2951.6 | 2812.8 | 2798.5 | 2631.2 |
| 5° | 4852.0 | 4778.6 | 4747.9 | 4601.0 | 4370.3 | 4153.9 | 3782.4 | 3500.7 | 3176.2 | 3151.7 | 2814.9 |
| 7.5° | 6036.0 | 5933.9 | 5903.3 | 5764.5 | 5495.0 | 5154.1 | 4672.4 | 4160.1 | 3645.7 | 3598.7 | 3061.9 |
| 10° | 6893.3 | 6907.6 | 6852.5 | 6760.6 | 6542.2 | 6195.2 | 5601.2 | 4901.0 | 4168.2 | 4109.0 | 3339.5 |
| 12.5° | 7507.7 | 7505.7 | 7515.9 | 7513.8 | 7397.5 | 7134.2 | 6509.5 | 5703.2 | 4743.9 | 4627.5 | 3657.9 |
| 15° | 7907.8 | 7913.9 | 7944.5 | 8050.7 | 8062.9 | 7899.6 | 7379.1 | 6470.7 | 5411.3 | 5266.4 | 4002.9 |
| 17.5° | 8311.9 | 8354.8 | 8403.8 | 8503.8 | 8593.6 | 8528.3 | 8160.9 | 7270.9 | 6015.5 | 5907.4 | 4372.3 |
| 20° | 8979.4 | 9038.6 | 9010.1 | 9071.3 | 9118.2 | 9124.4 | 8840.6 | 8009.8 | 6748.4 | 6566.7 | 4794.9 |
| 22.5° | 10047.0 | 10045.0 | 9971.5 | 9861.3 | 9769.4 | 9765.3 | 9508.1 | 8769.2 | 7413.8 | 7238.3 | 5219.5 |
| 25° | 11396.3 | 11402.4 | 11259.5 | 10945.2 | 10716.5 | 10436.9 | 10140.9 | 9434.6 | 8126.2 | 7909.8 | 5666.5 |
| 27.5° | 12943.5 | 12904.8 | 12688.4 | 12255.6 | 11802.5 | 11324.8 | 10898.2 | 10208.3 | 8881.5 | 8701.8 | 6178.8 |
| 30° | 14333.6 | 14319.3 | 14066.2 | 13537.5 | 12941.5 | 12461.8 | 11843.3 | 11177.9 | 9859.2 | 9638.8 | 6752.4 |
| 32.5° | 15627.8 | 15648.2 | 15297.1 | 14750.0 | 14174.4 | 13621.2 | 12968.0 | 12104.6 | 10818.6 | 10506.3 | 7377.1 |
| 35° | 16638.2 | 16658.6 | 16295.3 | 15840.1 | 15248.1 | 14788.8 | 14166.2 | 13092.5 | 11765.7 | 11502.4 | 8095.6 |
| 37.5° | 17177.1 | 17203.6 | 16993.4 | 16650.4 | 16281.0 | 16050.3 | 15470.6 | 14364.2 | 12917.0 | 12757.8 | 8944.7 |
| 40° | 17279.1 | 17309.8 | 17217.9 | 17126.0 | 17105.6 | 17271.0 | 17101.6 | 15862.5 | 14513.3 | 14264.2 | 10210.3 |
| 42.5° | 16973.0 | 17013.8 | 17054.6 | 17258.7 | 17675.1 | 18281.4 | 18871.3 | 17895.6 | 16568.8 | 16234.0 | 11757.6 |
| 45° | 16168.7 | 16164.6 | 16325.9 | 16854.6 | 17787.4 | 19081.6 | 20720.7 | 20441.0 | 19369.4 | 18971.3 | 13943.7 |
| 47.5° | 14792.9 | 14772.5 | 15121.5 | 15874.8 | 17328.1 | 19228.5 | 22229.2 | 23531.5 | 22943.6 | 22576.2 | 16293.2 |
| 50° | 12696.5 | 12796.6 | 13345.7 | 14396.9 | 16187.1 | 18783.5 | 22694.6 | 25558.4 | 25876.9 | 25487.0 | 18191.6 |
| 52.5° | 10240.9 | 10236.8 | 11098.2 | 12525.1 | 14496.9 | 17803.7 | 22370.0 | 25925.9 | 26830.1 | 26532.1 | 19126.5 |
| 55° | 7579.1 | 7632.2 | 8528.3 | 9967.4 | 12302.6 | 16015.6 | 21310.6 | 25548.2 | 27193.5 | 26983.2 | 19742.9 |
| 57° | 5637.9 | 5731.8 | 6450.3 | 7973.1 | 10392.0 | 14245.8 | 19900.1 | 24872.6 | 27336.4 | 27222.0 | 20255.3 |
| 57.5° | 5262.3 | 5266.4 | 5966.6 | 7350.5 | 9832.7 | 13566.1 | 19495.9 | 24590.9 | 27332.3 | 27269.0 | 20339.0 |
| 60° | 3239.5 | 3341.5 | 3825.3 | 4968.4 | 7197.4 | 10587.9 | 16787.2 | 22972.2 | 27120.0 | 27211.8 | 20696.2 |
| 62.5° | 1939.2 | 1982.0 | 2296.4 | 2994.5 | 4639.7 | 7728.2 | 13737.6 | 20900.3 | 26566.8 | 26846.5 | 20671.7 |
| 65° | 1247.2 | 1257.4 | 1400.3 | 1812.6 | 2900.6 | 5223.5 | 10585.9 | 18163.0 | 25135.9 | 25650.3 | 19863.4 |
| 67.5° | 963.5 | 979.8 | 1037.0 | 1190.0 | 1682.0 | 3253.7 | 7487.3 | 15242.0 | 22821.1 | 23484.5 | 17903.8 |
| 70° | 855.3 | 863.4 | 883.9 | 932.8 | 1112.5 | 1837.1 | 4658.1 | 11906.6 | 18924.4 | 19112.2 | 14011.1 |
| 72.5° | 698.1 | 720.6 | 783.8 | 800.2 | 881.8 | 1147.2 | 2592.4 | 7991.5 | 12714.9 | 12761.9 | 7838.4 |
| 75° | 540.9 | 545.0 | 638.9 | 685.9 | 743.0 | 790.0 | 1157.4 | 4029.4 | 6107.4 | 5780.8 | 3021.0 |
| 77.5° | 404.2 | 422.5 | 465.4 | 524.6 | 606.2 | 565.4 | 518.5 | 1518.7 | 1896.3 | 1861.6 | 877.7 |
| 80° | 259.2 | 269.4 | 324.6 | 394.0 | 471.5 | 369.5 | 291.9 | 445.0 | 416.4 | 428.7 | 210.2 |
| 82.5° | 130.6 | 132.7 | 208.2 | 320.5 | 300.1 | 185.8 | 183.7 | 181.7 | 155.1 | 153.1 | 98.0 |
| 85° | 14.3 | 30.6 | 134.7 | 183.7 | 134.7 | 61.2 | 85.7 | 83.7 | 81.6 | 83.7 | 57.2 |
| 87.5° | 2.0 | 2.0 | 22.5 | 26.5 | 18.4 | 20.4 | 24.5 | 26.5 | 32.7 | 30.6 | 24.5 |
| 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-SA8A-750-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2476.0 | 2476.0 | 2476.0 | 2476.0 | 2476.0 | 2476.0 | 2476.0 | 2476.0 | 2476.0 | 2476.0 | 2476.0 |
| 2.5° | 2549.5 | 2467.9 | 2316.8 | 2171.9 | 2063.7 | 1994.3 | 1904.5 | 1871.8 | 1824.9 | 1818.7 | 1796.3 |
| 5° | 2659.7 | 2504.6 | 2241.3 | 2033.1 | 1865.7 | 1739.1 | 1628.9 | 1537.1 | 1463.6 | 1447.2 | 1455.4 |
| 7.5° | 2816.9 | 2586.3 | 2218.8 | 1935.1 | 1702.4 | 1486.0 | 1310.5 | 1202.3 | 1124.7 | 1096.1 | 1100.2 |
| 10° | 2994.5 | 2694.4 | 2214.8 | 1831.0 | 1475.8 | 1210.5 | 1018.6 | 922.6 | 877.7 | 861.4 | 843.0 |
| 12.5° | 3204.8 | 2819.0 | 2204.5 | 1669.7 | 1226.8 | 965.5 | 828.7 | 771.6 | 728.7 | 716.5 | 716.5 |
| 15° | 3441.5 | 2951.6 | 2155.6 | 1469.7 | 996.1 | 798.1 | 706.3 | 661.4 | 647.1 | 634.8 | 634.8 |
| 17.5° | 3688.5 | 3082.3 | 2053.5 | 1222.7 | 826.7 | 683.8 | 626.7 | 600.1 | 579.7 | 565.4 | 565.4 |
| 20° | 3970.2 | 3210.9 | 1890.2 | 1004.3 | 698.1 | 610.3 | 565.4 | 534.8 | 518.5 | 506.2 | 502.1 |
| 22.5° | 4237.6 | 3315.0 | 1682.0 | 824.7 | 608.3 | 549.1 | 508.3 | 475.6 | 459.3 | 453.2 | 453.2 |
| 25° | 4515.2 | 3378.3 | 1430.9 | 681.8 | 555.2 | 498.1 | 453.2 | 426.6 | 412.3 | 408.2 | 406.2 |
| 27.5° | 4784.7 | 3415.0 | 1210.5 | 596.0 | 506.2 | 451.1 | 408.2 | 387.8 | 373.5 | 369.5 | 371.5 |
| 30° | 5111.3 | 3421.1 | 996.1 | 534.8 | 463.4 | 406.2 | 367.4 | 349.1 | 340.9 | 336.8 | 334.8 |
| 32.5° | 5442.0 | 3413.0 | 836.9 | 498.1 | 422.5 | 367.4 | 334.8 | 320.5 | 314.4 | 308.2 | 308.2 |
| 35° | 5813.5 | 3370.1 | 712.4 | 461.3 | 383.8 | 334.8 | 306.2 | 293.9 | 285.8 | 279.7 | 277.6 |
| 37.5° | 6274.8 | 3347.6 | 641.0 | 420.5 | 349.1 | 304.1 | 277.6 | 265.4 | 259.2 | 251.1 | 249.0 |
| 40° | 7001.5 | 3447.7 | 618.5 | 383.8 | 314.4 | 275.6 | 251.1 | 236.8 | 228.6 | 220.5 | 218.4 |
| 42.5° | 7907.8 | 3623.2 | 581.8 | 347.0 | 283.7 | 249.0 | 224.5 | 208.2 | 193.9 | 183.7 | 179.6 |
| 45° | 9081.5 | 3853.9 | 524.6 | 308.2 | 257.2 | 220.5 | 198.0 | 177.6 | 159.2 | 151.1 | 149.0 |
| 47.5° | 10312.4 | 4076.4 | 473.6 | 277.6 | 228.6 | 196.0 | 171.5 | 149.0 | 132.7 | 126.6 | 124.5 |
| 50° | 11067.6 | 4121.3 | 440.9 | 242.9 | 200.0 | 169.4 | 144.9 | 124.5 | 114.3 | 108.2 | 108.2 |
| 52.5° | 11412.6 | 4049.8 | 396.0 | 212.3 | 173.5 | 149.0 | 124.5 | 108.2 | 102.1 | 98.0 | 95.9 |
| 55° | 11653.5 | 3939.6 | 336.8 | 183.7 | 149.0 | 126.6 | 110.2 | 98.0 | 89.8 | 85.7 | 83.7 |
| 57° | 11794.3 | 3790.6 | 291.9 | 161.3 | 128.6 | 110.2 | 98.0 | 87.8 | 79.6 | 71.4 | 71.4 |
| 57.5° | 11800.4 | 3733.4 | 279.7 | 159.2 | 122.5 | 106.1 | 95.9 | 85.7 | 75.5 | 67.4 | 65.3 |
| 60° | 11618.8 | 3341.5 | 224.5 | 134.7 | 98.0 | 89.8 | 79.6 | 67.4 | 53.1 | 44.9 | 42.9 |
| 62.5° | 11035.0 | 2843.5 | 185.8 | 114.3 | 79.6 | 69.4 | 57.2 | 51.0 | 36.7 | 26.5 | 26.5 |
| 65° | 10151.1 | 2306.6 | 159.2 | 91.9 | 65.3 | 51.0 | 38.8 | 36.7 | 22.5 | 12.2 | 10.2 |
| 67.5° | 8873.3 | 1796.3 | 134.7 | 75.5 | 55.1 | 36.7 | 26.5 | 24.5 | 12.2 | 4.1 | 0.0 |
| 70° | 6760.6 | 1224.7 | 112.3 | 61.2 | 40.8 | 26.5 | 18.4 | 14.3 | 8.2 | 2.0 | 0.0 |
| 72.5° | 3896.7 | 673.6 | 93.9 | 46.9 | 30.6 | 20.4 | 14.3 | 8.2 | 8.2 | 0.0 | 0.0 |
| 75° | 1392.1 | 289.9 | 71.4 | 34.7 | 24.5 | 16.3 | 10.2 | 4.1 | 6.1 | 2.0 | 0.0 |
| 77.5° | 443.0 | 155.1 | 46.9 | 26.5 | 20.4 | 12.2 | 8.2 | 4.1 | 4.1 | 2.0 | 0.0 |
| 80° | 130.6 | 81.6 | 28.6 | 22.5 | 14.3 | 10.2 | 6.1 | 2.0 | 4.1 | 2.0 | 0.0 |
| 82.5° | 71.4 | 40.8 | 22.5 | 16.3 | 14.3 | 8.2 | 6.1 | 2.0 | 2.0 | 2.0 | 0.0 |
| 85° | 36.7 | 24.5 | 18.4 | 16.3 | 14.3 | 8.2 | 6.1 | 2.0 | 0.0 | 2.0 | 2.0 |
| 87.5° | 20.4 | 18.4 | 18.4 | 16.3 | 14.3 | 10.2 | 6.1 | 2.0 | 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)