

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: P459439

Luminaire Tested: **GLAN-SA8D-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459439
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-SA8D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA 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: 42096 lumens
Efficiency: N/A
Efficacy: 85.4 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

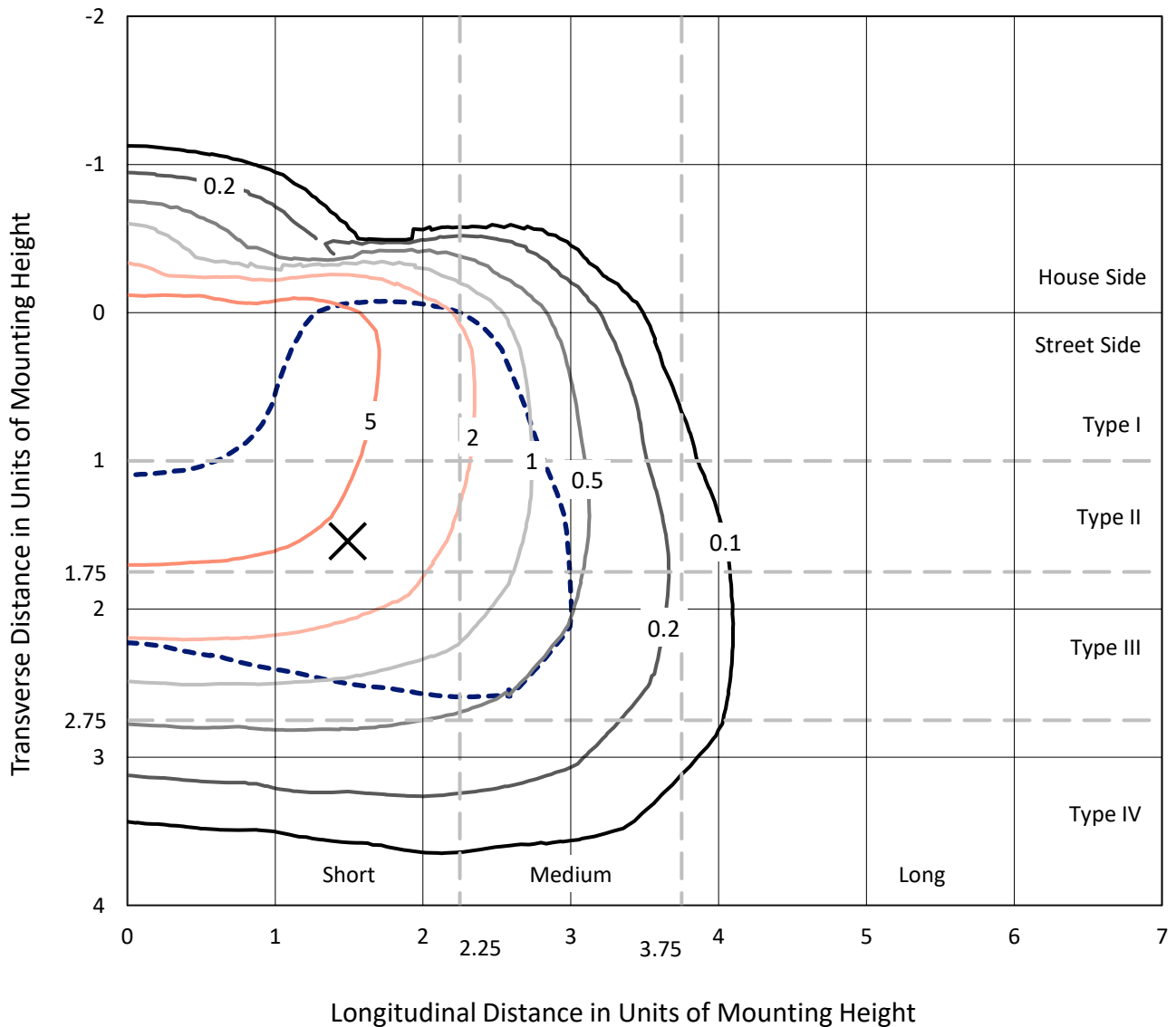
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

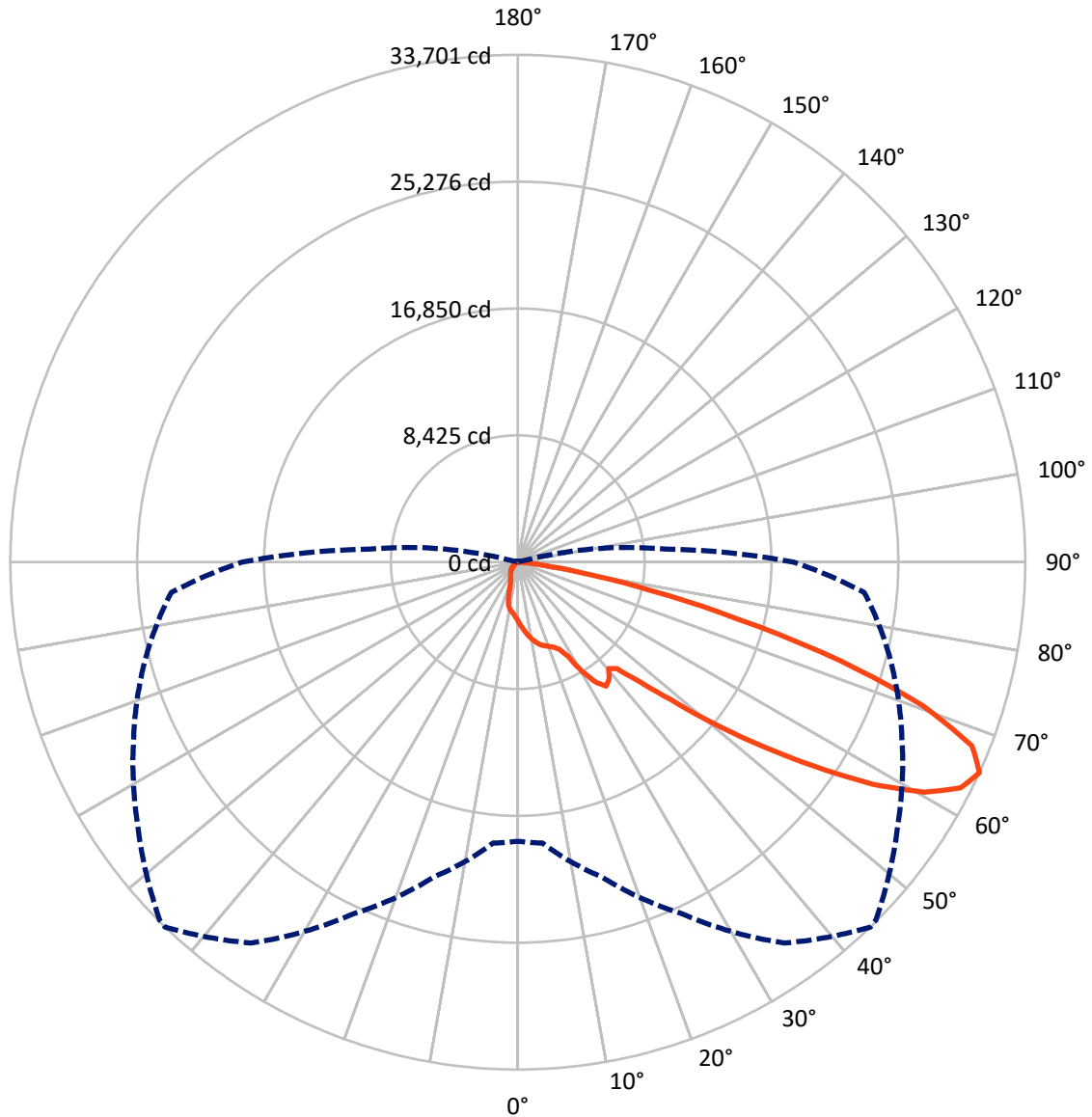
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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 | 3878.5 | 0.0 | 3878.5 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 38217.5 | 0.0 | 38217.5 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 42096.0 | 0.0 | 42096.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 389.7 | 0.9 |
| 10°-20° | 1172.8 | 2.8 |
| 20°-30° | 1988.6 | 4.7 |
| 30°-40° | 3306.4 | 7.9 |
| 40°-50° | 5773.1 | 13.7 |
| 50°-60° | 11278.6 | 26.8 |
| 60°-70° | 13085.8 | 31.1 |
| 70°-80° | 4765.2 | 11.3 |
| 80°-90° | 335.7 | 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° | 42096.0 | 100.0 |
| 0°-180° | 42096.0 | 100.0 |

Coefficient of Utilization



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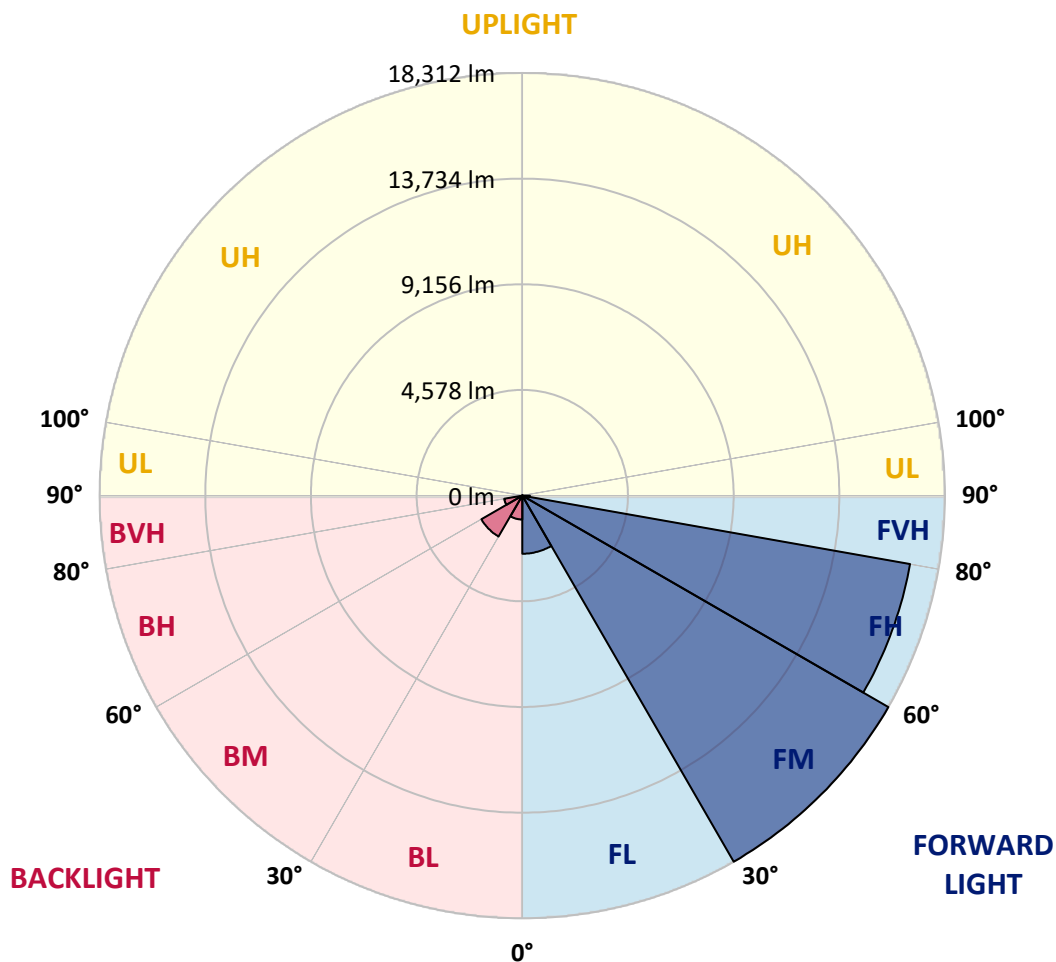
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2517.7 | 6.0 | | | |
| FM | (30°-60°) | 18311.8 | 43.5 | | | |
| FH | (60°-80°) | 17056.7 | 40.5 | | | G5 |
| FVH | (80°-90°) | 331.2 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1033.4 | 2.5 | B3/2500 | | |
| BM | (30°-60°) | 2046.3 | 4.9 | B2/2500 | | |
| BH | (60°-80°) | 794.3 | 1.9 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 4.6 | 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° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 |
| 2.5° | 4410.0 | 4390.7 | 4381.1 | 4329.6 | 4291.0 | 4242.8 | 4242.8 | 4181.6 | 4110.9 | 4033.7 | 3962.9 |
| 5° | 4902.2 | 4870.0 | 4828.2 | 4783.2 | 4693.1 | 4564.4 | 4564.4 | 4435.8 | 4287.8 | 4155.9 | 4011.2 |
| 7.5° | 5375.0 | 5346.1 | 5275.3 | 5188.5 | 5040.5 | 4905.4 | 4895.7 | 4709.2 | 4532.3 | 4332.8 | 4127.0 |
| 10° | 5790.0 | 5767.5 | 5706.3 | 5539.1 | 5384.7 | 5207.8 | 5204.5 | 4995.5 | 4789.6 | 4545.1 | 4291.0 |
| 12.5° | 6079.5 | 6082.7 | 6002.3 | 5841.4 | 5642.0 | 5474.7 | 5461.9 | 5256.0 | 5040.5 | 4776.7 | 4464.7 |
| 15° | 6285.3 | 6285.3 | 6201.7 | 6021.6 | 5841.4 | 5693.5 | 5680.6 | 5500.5 | 5278.5 | 4992.2 | 4654.5 |
| 17.5° | 6343.2 | 6362.5 | 6272.5 | 6111.6 | 5966.9 | 5838.2 | 5835.0 | 5683.8 | 5506.9 | 5230.3 | 4847.5 |
| 20° | 6320.7 | 6340.0 | 6269.3 | 6143.8 | 6044.1 | 5970.1 | 5960.5 | 5899.3 | 5735.3 | 5474.7 | 5053.4 |
| 22.5° | 6272.5 | 6291.8 | 6240.3 | 6166.3 | 6118.1 | 6140.6 | 6124.5 | 6176.0 | 6089.1 | 5773.9 | 5297.8 |
| 25° | 6282.1 | 6301.4 | 6262.8 | 6221.0 | 6262.8 | 6401.1 | 6443.0 | 6664.9 | 6587.7 | 6153.5 | 5561.6 |
| 27.5° | 6584.5 | 6623.1 | 6568.4 | 6587.7 | 6735.7 | 7057.3 | 7137.8 | 7520.5 | 7179.6 | 6636.0 | 5973.3 |
| 30° | 7256.8 | 7231.0 | 7128.1 | 7221.4 | 7736.0 | 8418.0 | 8395.5 | 8334.3 | 7800.4 | 7192.4 | 6462.3 |
| 32.5° | 7867.9 | 7845.4 | 7839.0 | 8241.1 | 9173.9 | 9505.2 | 9489.1 | 8897.3 | 8356.9 | 7829.3 | 6944.8 |
| 35° | 8115.6 | 8028.8 | 8009.5 | 8984.1 | 10544.2 | 10106.7 | 10007.0 | 9128.9 | 9032.4 | 8524.1 | 7436.9 |
| 37.5° | 8861.9 | 8800.8 | 8501.6 | 9106.3 | 9997.4 | 9852.6 | 9775.4 | 9527.7 | 9752.9 | 9138.5 | 7993.4 |
| 40° | 10399.4 | 10229.0 | 9958.8 | 9366.9 | 9222.1 | 9283.3 | 9360.5 | 10039.2 | 10605.3 | 9978.1 | 8736.4 |
| 42.5° | 12310.1 | 12271.5 | 11769.7 | 10666.4 | 9582.4 | 9666.0 | 9765.8 | 11107.1 | 11830.8 | 11242.2 | 9949.1 |
| 45° | 14603.6 | 14658.3 | 13934.5 | 12631.8 | 11210.0 | 11280.8 | 11425.5 | 12683.3 | 13490.6 | 13207.6 | 11856.6 |
| 47.5° | 16688.0 | 16646.2 | 16401.7 | 15047.5 | 13735.1 | 13577.5 | 13812.3 | 14706.5 | 15787.3 | 15832.4 | 14224.0 |
| 50° | 18785.2 | 19007.2 | 18643.7 | 18113.0 | 17138.3 | 16807.0 | 16720.2 | 17157.6 | 18804.5 | 18589.0 | 17067.6 |
| 52.5° | 21799.3 | 21915.1 | 21233.1 | 21098.0 | 21320.0 | 20245.6 | 20158.8 | 20264.9 | 21738.1 | 20998.3 | 19197.0 |
| 55° | 23693.9 | 23626.3 | 23372.2 | 24427.3 | 25305.4 | 23964.1 | 23854.7 | 23426.9 | 24173.1 | 22699.9 | 21246.0 |
| 57.5° | 24292.2 | 24388.7 | 24980.5 | 26888.0 | 28966.0 | 27827.3 | 27627.8 | 26411.9 | 25929.4 | 24285.7 | 23130.9 |
| 60° | 24025.2 | 24202.1 | 25479.1 | 28316.2 | 31198.3 | 31027.8 | 30857.3 | 28814.8 | 27190.4 | 25611.0 | 24453.0 |
| 62.5° | 22124.1 | 22371.8 | 24414.4 | 28062.1 | 31954.2 | 33018.9 | 32806.6 | 30313.7 | 28029.9 | 26254.3 | 24684.6 |
| 65° | 18540.8 | 18724.1 | 21657.7 | 25755.7 | 30879.9 | 33700.9 | 33623.7 | 30783.4 | 28161.8 | 25665.7 | 23098.8 |
| 67.5° | 13217.2 | 13841.3 | 16559.3 | 21706.0 | 27701.8 | 32536.4 | 32668.3 | 30220.4 | 26923.4 | 23121.3 | 19129.4 |
| 70° | 8308.6 | 8733.2 | 10682.5 | 15539.6 | 22207.8 | 28544.6 | 28978.8 | 27643.9 | 23365.8 | 18022.9 | 12805.5 |
| 72.5° | 3962.9 | 4278.1 | 5667.7 | 9836.5 | 15674.7 | 22458.7 | 22802.8 | 22693.5 | 18067.9 | 11354.8 | 6607.0 |
| 75° | 1765.9 | 1885.0 | 2705.2 | 5021.2 | 10119.6 | 15095.7 | 15986.8 | 16134.7 | 11290.4 | 5555.2 | 2570.1 |
| 77.5° | 900.7 | 903.9 | 1267.4 | 2431.8 | 5053.4 | 9006.6 | 9183.5 | 9701.4 | 6121.3 | 2447.9 | 894.2 |
| 80° | 479.3 | 511.4 | 672.3 | 1148.3 | 2621.6 | 4435.8 | 4413.2 | 4850.7 | 2714.9 | 1199.8 | 299.1 |
| 82.5° | 215.5 | 238.0 | 379.6 | 601.5 | 1280.2 | 1682.3 | 1814.2 | 1984.7 | 1164.4 | 765.6 | 131.9 |
| 85° | 64.3 | 77.2 | 186.6 | 302.4 | 463.2 | 485.7 | 543.6 | 701.2 | 659.4 | 543.6 | 67.5 |
| 87.5° | 9.6 | 9.6 | 77.2 | 83.6 | 67.5 | 86.8 | 90.1 | 99.7 | 212.3 | 199.4 | 35.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P459439

CATALOG NUMBER: GLAN-SA8D-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 | 3917.9 |
| 2.5° | 3924.3 | 3901.8 | 3821.4 | 3753.8 | 3695.9 | 3660.6 | 3618.7 | 3593.0 | 3580.1 | 3570.5 | 3573.7 |
| 5° | 3940.4 | 3885.7 | 3747.4 | 3638.0 | 3554.4 | 3464.3 | 3403.2 | 3367.8 | 3351.8 | 3326.0 | 3326.0 |
| 7.5° | 4030.5 | 3943.6 | 3750.6 | 3583.4 | 3438.6 | 3316.4 | 3200.6 | 3158.8 | 3129.8 | 3123.4 | 3116.9 |
| 10° | 4159.1 | 4049.8 | 3786.0 | 3554.4 | 3348.5 | 3181.3 | 3017.2 | 2872.5 | 2759.9 | 2692.3 | 2682.7 |
| 12.5° | 4320.0 | 4162.3 | 3840.7 | 3535.1 | 3271.3 | 2975.4 | 2541.2 | 2248.4 | 2052.2 | 1991.1 | 2000.8 |
| 15° | 4467.9 | 4297.4 | 3895.4 | 3519.0 | 3129.8 | 2467.2 | 1975.0 | 1640.5 | 1540.8 | 1531.1 | 1534.3 |
| 17.5° | 4644.8 | 4442.2 | 3959.7 | 3496.5 | 2740.6 | 1885.0 | 1466.8 | 1376.7 | 1396.0 | 1428.2 | 1425.0 |
| 20° | 4828.2 | 4596.6 | 4036.9 | 3361.4 | 2187.3 | 1418.5 | 1296.3 | 1306.0 | 1334.9 | 1363.9 | 1370.3 |
| 22.5° | 5024.4 | 4773.5 | 4127.0 | 3036.5 | 1669.4 | 1235.2 | 1228.8 | 1241.6 | 1270.6 | 1302.7 | 1309.2 |
| 25° | 5294.6 | 4995.5 | 4194.5 | 2611.9 | 1264.1 | 1141.9 | 1154.8 | 1177.3 | 1203.0 | 1238.4 | 1244.8 |
| 27.5° | 5642.0 | 5294.6 | 4229.9 | 2058.7 | 1093.7 | 1058.3 | 1061.5 | 1093.7 | 1125.8 | 1158.0 | 1158.0 |
| 30° | 6092.3 | 5651.7 | 4159.1 | 1556.9 | 1010.0 | 977.9 | 965.0 | 984.3 | 1026.1 | 1058.3 | 1061.5 |
| 32.5° | 6494.4 | 5989.4 | 3972.6 | 1190.2 | 948.9 | 903.9 | 871.7 | 874.9 | 891.0 | 910.3 | 913.5 |
| 35° | 6896.5 | 6317.5 | 3654.1 | 1000.4 | 884.6 | 833.1 | 784.9 | 759.1 | 746.3 | 736.6 | 746.3 |
| 37.5° | 7411.2 | 6726.0 | 3229.5 | 910.3 | 829.9 | 765.6 | 698.0 | 643.3 | 598.3 | 569.3 | 575.8 |
| 40° | 8073.8 | 7292.2 | 2727.7 | 852.4 | 778.4 | 701.2 | 611.2 | 540.4 | 463.2 | 437.5 | 424.6 |
| 42.5° | 9167.5 | 8151.0 | 2200.2 | 804.2 | 727.0 | 633.7 | 521.1 | 424.6 | 353.8 | 328.1 | 334.5 |
| 45° | 10894.8 | 9235.0 | 1695.2 | 752.7 | 675.5 | 559.7 | 437.5 | 334.5 | 276.6 | 263.8 | 270.2 |
| 47.5° | 13185.1 | 10637.5 | 1306.0 | 694.8 | 611.2 | 479.3 | 344.2 | 263.8 | 228.4 | 225.2 | 221.9 |
| 50° | 15340.2 | 11943.4 | 1090.4 | 630.5 | 534.0 | 398.9 | 283.1 | 221.9 | 199.4 | 196.2 | 196.2 |
| 52.5° | 17289.5 | 12879.5 | 887.8 | 556.5 | 450.3 | 328.1 | 238.0 | 196.2 | 176.9 | 167.3 | 167.3 |
| 55° | 19023.3 | 13490.6 | 720.5 | 466.4 | 353.8 | 260.5 | 205.9 | 176.9 | 154.4 | 141.5 | 138.3 |
| 57.5° | 20332.5 | 13564.6 | 540.4 | 373.1 | 263.8 | 202.6 | 176.9 | 154.4 | 128.7 | 112.6 | 106.1 |
| 60° | 20892.2 | 12924.5 | 398.9 | 283.1 | 196.2 | 160.8 | 141.5 | 125.4 | 96.5 | 80.4 | 77.2 |
| 62.5° | 20329.2 | 11679.7 | 295.9 | 215.5 | 151.2 | 119.0 | 99.7 | 93.3 | 67.5 | 48.2 | 45.0 |
| 65° | 18312.4 | 9881.6 | 234.8 | 164.0 | 112.6 | 86.8 | 64.3 | 61.1 | 41.8 | 22.5 | 19.3 |
| 67.5° | 14671.1 | 7739.3 | 186.6 | 122.2 | 80.4 | 57.9 | 41.8 | 38.6 | 22.5 | 6.4 | 6.4 |
| 70° | 9540.6 | 4947.2 | 151.2 | 90.1 | 51.5 | 38.6 | 25.7 | 19.3 | 12.9 | 3.2 | 0.0 |
| 72.5° | 4718.8 | 2312.8 | 122.2 | 70.8 | 35.4 | 19.3 | 9.6 | 6.4 | 9.6 | 0.0 | 0.0 |
| 75° | 1830.3 | 823.5 | 90.1 | 48.2 | 19.3 | 9.6 | 6.4 | 0.0 | 3.2 | 0.0 | 0.0 |
| 77.5° | 607.9 | 273.4 | 54.7 | 25.7 | 12.9 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 225.2 | 106.1 | 28.9 | 16.1 | 6.4 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 90.1 | 41.8 | 19.3 | 12.9 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 45.0 | 25.7 | 12.9 | 9.6 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 32.2 | 19.3 | 12.9 | 9.6 | 6.4 | 3.2 | 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)