

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: P458221

Luminaire Tested: **GLAN-SA9C-760-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458221
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-SA9C-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA 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: 46106 lumens
Efficiency: N/A
Efficacy: 95.9 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

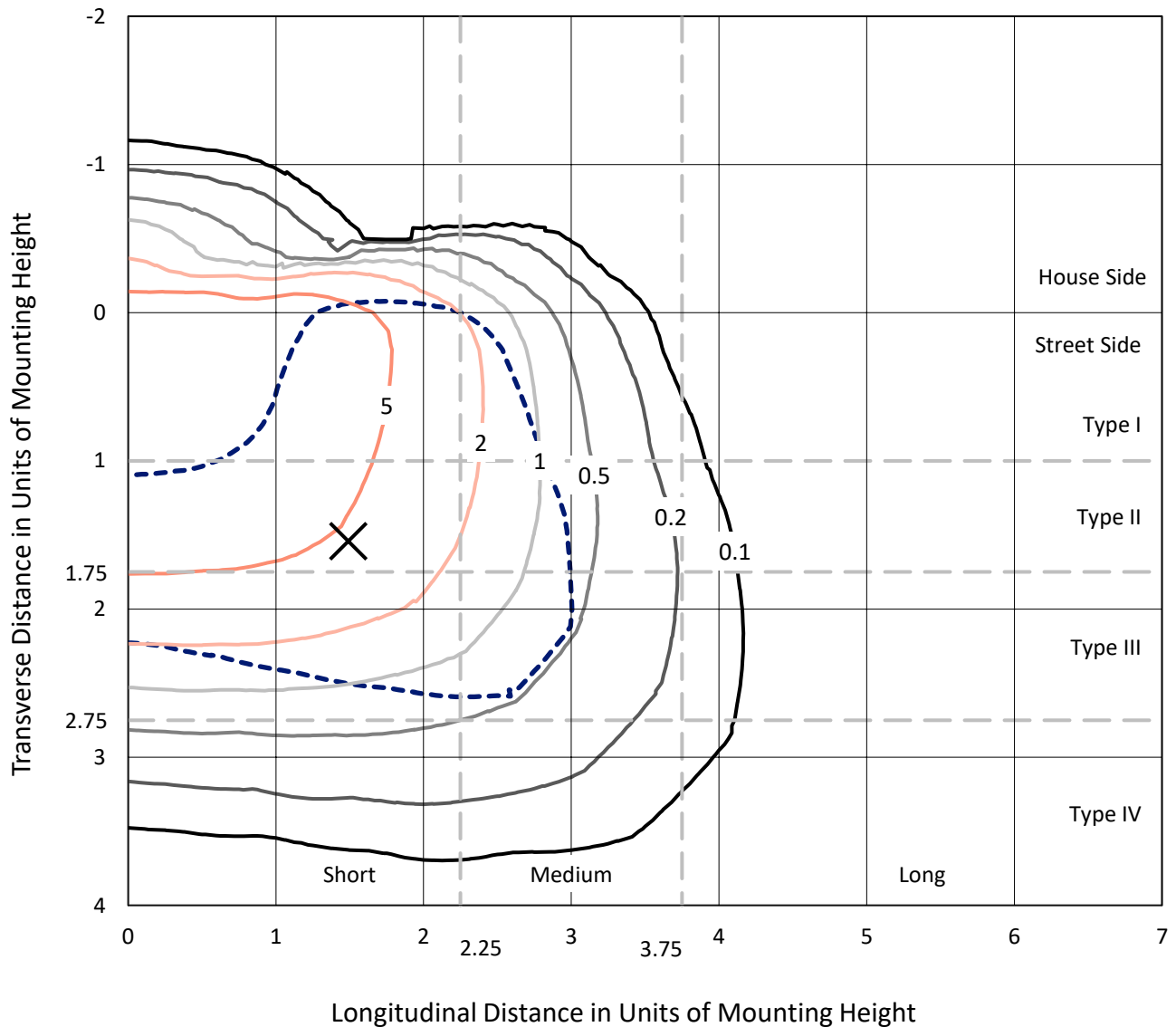
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

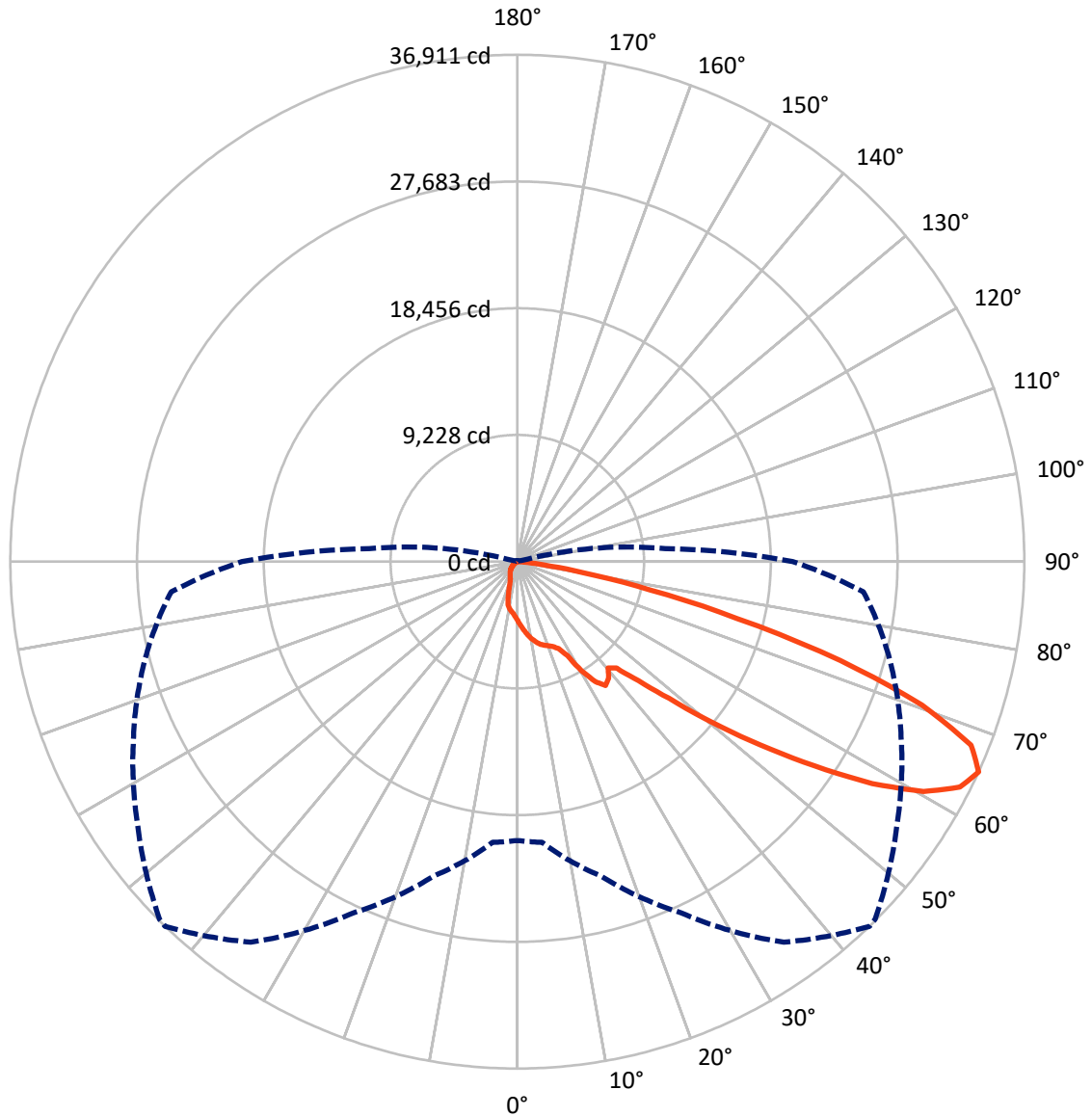
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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 | 4248.0 | 0.0 | 4248.0 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 41858.0 | 0.0 | 41858.0 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 46106.0 | 0.0 | 46106.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 426.8 | 0.9 |
| 10°-20° | 1284.5 | 2.8 |
| 20°-30° | 2178.1 | 4.7 |
| 30°-40° | 3621.4 | 7.9 |
| 40°-50° | 6323.0 | 13.7 |
| 50°-60° | 12353.0 | 26.8 |
| 60°-70° | 14332.3 | 31.1 |
| 70°-80° | 5219.1 | 11.3 |
| 80°-90° | 367.7 | 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° | 46106.0 | 100.0 |
| 0°-180° | 46106.0 | 100.0 |

Coefficient of Utilization



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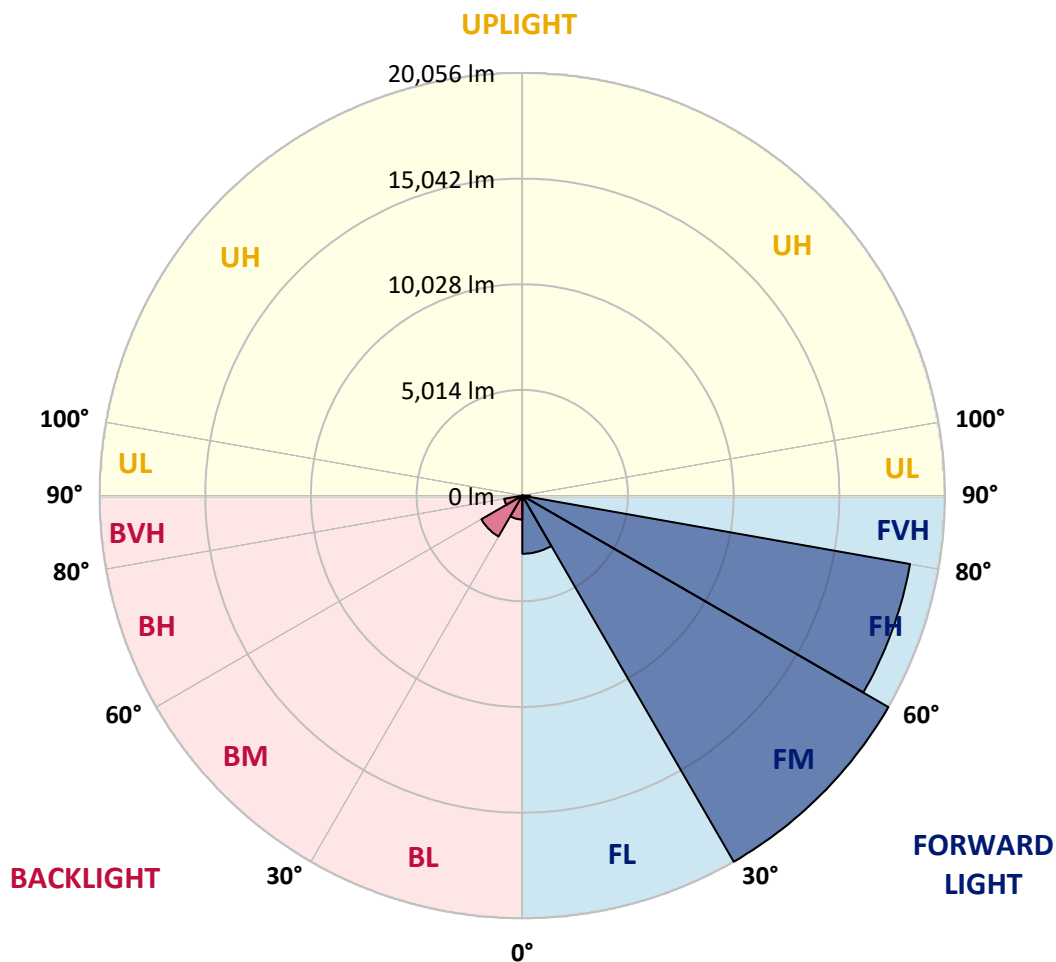
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2757.6 | 6.0 | | | |
| FM | (30°-60°) | 20056.2 | 43.5 | | | |
| FH | (60°-80°) | 18681.5 | 40.5 | | | G5 |
| FVH | (80°-90°) | 362.7 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1131.8 | 2.5 | B3/2500 | | |
| BM | (30°-60°) | 2241.2 | 4.9 | B2/2500 | | |
| BH | (60°-80°) | 869.9 | 1.9 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 5.0 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: 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° | 4291.1 | 4291.1 | 4291.1 | 4291.1 | 4291.1 | 4291.1 | 4291.1 | 4291.1 | 4291.1 | 4291.1 | 4291.1 |
| 2.5° | 4830.1 | 4809.0 | 4798.4 | 4742.0 | 4699.8 | 4646.9 | 4646.9 | 4580.0 | 4502.5 | 4417.9 | 4340.4 |
| 5° | 5369.2 | 5333.9 | 5288.1 | 5238.8 | 5140.2 | 4999.2 | 4999.2 | 4858.3 | 4696.2 | 4551.8 | 4393.3 |
| 7.5° | 5887.0 | 5855.3 | 5777.8 | 5682.7 | 5520.6 | 5372.7 | 5362.1 | 5157.8 | 4964.0 | 4745.6 | 4520.1 |
| 10° | 6341.5 | 6316.9 | 6249.9 | 6066.7 | 5897.6 | 5703.8 | 5700.3 | 5471.3 | 5245.8 | 4978.1 | 4699.8 |
| 12.5° | 6658.6 | 6662.1 | 6574.0 | 6397.9 | 6179.5 | 5996.3 | 5982.2 | 5756.7 | 5520.6 | 5231.8 | 4890.0 |
| 15° | 6884.1 | 6884.1 | 6792.5 | 6595.2 | 6397.9 | 6235.8 | 6221.7 | 6024.4 | 5781.4 | 5467.8 | 5097.9 |
| 17.5° | 6947.5 | 6968.6 | 6870.0 | 6693.8 | 6535.3 | 6394.4 | 6390.8 | 6225.3 | 6031.5 | 5728.5 | 5309.3 |
| 20° | 6922.8 | 6944.0 | 6866.5 | 6729.1 | 6619.8 | 6538.8 | 6528.2 | 6461.3 | 6281.6 | 5996.3 | 5534.7 |
| 22.5° | 6870.0 | 6891.1 | 6834.7 | 6753.7 | 6700.9 | 6725.5 | 6707.9 | 6764.3 | 6669.2 | 6323.9 | 5802.5 |
| 25° | 6880.5 | 6901.7 | 6859.4 | 6813.6 | 6859.4 | 7010.9 | 7056.7 | 7299.8 | 7215.2 | 6739.6 | 6091.4 |
| 27.5° | 7211.7 | 7254.0 | 7194.1 | 7215.2 | 7377.3 | 7729.6 | 7817.7 | 8236.9 | 7863.5 | 7268.1 | 6542.3 |
| 30° | 7948.0 | 7919.9 | 7807.1 | 7909.3 | 8473.0 | 9219.9 | 9195.2 | 9128.3 | 8543.4 | 7877.6 | 7077.8 |
| 32.5° | 8617.4 | 8592.8 | 8585.7 | 9026.1 | 10047.8 | 10410.7 | 10393.0 | 9744.8 | 9152.9 | 8575.1 | 7606.3 |
| 35° | 8888.7 | 8793.6 | 8772.4 | 9839.9 | 11548.6 | 11069.5 | 10960.3 | 9998.5 | 9892.8 | 9336.1 | 8145.3 |
| 37.5° | 9706.0 | 9639.1 | 9311.5 | 9973.8 | 10949.7 | 10791.1 | 10706.6 | 10435.3 | 10681.9 | 10009.0 | 8754.8 |
| 40° | 11390.1 | 11203.3 | 10907.4 | 10259.2 | 10100.6 | 10167.6 | 10252.1 | 10995.5 | 11615.5 | 10928.5 | 9568.6 |
| 42.5° | 13482.8 | 13440.5 | 12890.9 | 11682.5 | 10495.2 | 10586.8 | 10696.0 | 12165.1 | 12957.8 | 12313.1 | 10896.8 |
| 45° | 15994.7 | 16054.6 | 15261.9 | 13835.1 | 12277.9 | 12355.4 | 12513.9 | 13891.4 | 14775.7 | 14465.7 | 12986.0 |
| 47.5° | 18277.7 | 18231.9 | 17964.1 | 16480.9 | 15043.5 | 14870.9 | 15128.0 | 16107.5 | 17291.2 | 17340.5 | 15579.0 |
| 50° | 20574.7 | 20817.8 | 20419.7 | 19838.4 | 18770.9 | 18408.0 | 18312.9 | 18792.0 | 20595.8 | 20359.8 | 18693.4 |
| 52.5° | 23875.8 | 24002.6 | 23255.8 | 23107.8 | 23350.9 | 22174.2 | 22079.1 | 22195.3 | 23808.9 | 22998.6 | 21025.7 |
| 55° | 25950.9 | 25876.9 | 25598.6 | 26754.2 | 27716.0 | 26246.8 | 26127.1 | 25658.5 | 26475.8 | 24862.3 | 23269.8 |
| 57.5° | 26606.2 | 26711.9 | 27360.1 | 29449.3 | 31725.2 | 30478.0 | 30259.6 | 28927.9 | 28399.4 | 26599.1 | 25334.4 |
| 60° | 26313.8 | 26507.5 | 27906.2 | 31013.5 | 34170.2 | 33983.5 | 33796.8 | 31559.6 | 29780.5 | 28050.6 | 26782.3 |
| 62.5° | 24231.6 | 24502.9 | 26740.1 | 30735.2 | 34998.1 | 36164.3 | 35931.7 | 33201.4 | 30700.0 | 28755.3 | 27036.0 |
| 65° | 20306.9 | 20507.8 | 23720.8 | 28209.2 | 33821.4 | 36911.2 | 36826.6 | 33715.7 | 30844.4 | 28110.5 | 25299.1 |
| 67.5° | 14476.3 | 15159.8 | 18136.7 | 23773.6 | 30340.6 | 35635.8 | 35780.3 | 33099.2 | 29488.1 | 25323.8 | 20951.7 |
| 70° | 9100.1 | 9565.1 | 11700.1 | 17019.9 | 24323.2 | 31263.7 | 31739.3 | 30277.2 | 25591.5 | 19739.7 | 14025.3 |
| 72.5° | 4340.4 | 4685.7 | 6207.6 | 10773.5 | 17167.9 | 24598.0 | 24975.0 | 24855.2 | 19789.1 | 12436.4 | 7236.4 |
| 75° | 1934.2 | 2064.5 | 2962.9 | 5499.5 | 11083.6 | 16533.7 | 17509.6 | 17671.7 | 12366.0 | 6084.3 | 2814.9 |
| 77.5° | 986.5 | 990.0 | 1388.1 | 2663.4 | 5534.7 | 9864.6 | 10058.4 | 10625.6 | 6704.4 | 2681.1 | 979.4 |
| 80° | 524.9 | 560.2 | 736.3 | 1257.7 | 2871.3 | 4858.3 | 4833.6 | 5312.8 | 2973.5 | 1314.1 | 327.6 |
| 82.5° | 236.0 | 260.7 | 415.7 | 658.8 | 1402.2 | 1842.6 | 1987.0 | 2173.7 | 1275.3 | 838.5 | 144.4 |
| 85° | 70.5 | 84.6 | 204.3 | 331.2 | 507.3 | 532.0 | 595.4 | 768.0 | 722.2 | 595.4 | 74.0 |
| 87.5° | 10.6 | 10.6 | 84.6 | 91.6 | 74.0 | 95.1 | 98.6 | 109.2 | 232.5 | 218.4 | 38.8 |
| 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-760-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4291.1 | 4291.1 | 4291.1 | 4291.1 | 4291.1 | 4291.1 | 4291.1 | 4291.1 | 4291.1 | 4291.1 | 4291.1 |
| 2.5° | 4298.1 | 4273.5 | 4185.4 | 4111.4 | 4048.0 | 4009.2 | 3963.4 | 3935.3 | 3921.2 | 3910.6 | 3914.1 |
| 5° | 4315.8 | 4255.9 | 4104.4 | 3984.6 | 3893.0 | 3794.3 | 3727.4 | 3688.6 | 3671.0 | 3642.8 | 3642.8 |
| 7.5° | 4414.4 | 4319.3 | 4107.9 | 3924.7 | 3766.2 | 3632.3 | 3505.5 | 3459.7 | 3427.9 | 3420.9 | 3413.9 |
| 10° | 4555.3 | 4435.5 | 4146.6 | 3893.0 | 3667.5 | 3484.3 | 3304.6 | 3146.1 | 3022.8 | 2948.8 | 2938.2 |
| 12.5° | 4731.5 | 4558.8 | 4206.5 | 3871.8 | 3583.0 | 3258.8 | 2783.2 | 2462.6 | 2247.7 | 2180.8 | 2191.3 |
| 15° | 4893.5 | 4706.8 | 4266.4 | 3854.2 | 3427.9 | 2702.2 | 2163.2 | 1796.8 | 1687.5 | 1677.0 | 1680.5 |
| 17.5° | 5087.3 | 4865.4 | 4336.9 | 3829.6 | 3001.7 | 2064.5 | 1606.5 | 1507.9 | 1529.0 | 1564.2 | 1560.7 |
| 20° | 5288.1 | 5034.5 | 4421.4 | 3681.6 | 2395.7 | 1553.7 | 1419.8 | 1430.4 | 1462.1 | 1493.8 | 1500.8 |
| 22.5° | 5503.0 | 5228.2 | 4520.1 | 3325.8 | 1828.5 | 1352.9 | 1345.8 | 1359.9 | 1391.6 | 1426.8 | 1433.9 |
| 25° | 5799.0 | 5471.3 | 4594.1 | 2860.7 | 1384.6 | 1250.7 | 1264.8 | 1289.4 | 1317.6 | 1356.4 | 1363.4 |
| 27.5° | 6179.5 | 5799.0 | 4632.8 | 2254.8 | 1197.8 | 1159.1 | 1162.6 | 1197.8 | 1233.1 | 1268.3 | 1268.3 |
| 30° | 6672.7 | 6190.0 | 4555.3 | 1705.2 | 1106.2 | 1071.0 | 1056.9 | 1078.1 | 1123.9 | 1159.1 | 1162.6 |
| 32.5° | 7113.1 | 6559.9 | 4351.0 | 1303.5 | 1039.3 | 990.0 | 954.8 | 958.3 | 975.9 | 997.0 | 1000.6 |
| 35° | 7553.5 | 6919.3 | 4002.2 | 1095.7 | 968.8 | 912.5 | 859.6 | 831.4 | 817.4 | 806.8 | 817.4 |
| 37.5° | 8117.1 | 7366.7 | 3537.2 | 997.0 | 909.0 | 838.5 | 764.5 | 704.6 | 655.3 | 623.6 | 630.6 |
| 40° | 8842.9 | 7986.8 | 2987.6 | 933.6 | 852.6 | 768.0 | 669.4 | 591.9 | 507.3 | 479.1 | 465.0 |
| 42.5° | 10040.7 | 8927.4 | 2409.8 | 880.8 | 796.2 | 694.0 | 570.7 | 465.0 | 387.5 | 359.4 | 366.4 |
| 45° | 11932.6 | 10114.7 | 1856.7 | 824.4 | 739.8 | 613.0 | 479.1 | 366.4 | 303.0 | 288.9 | 295.9 |
| 47.5° | 14441.0 | 11650.8 | 1430.4 | 761.0 | 669.4 | 524.9 | 377.0 | 288.9 | 250.1 | 246.6 | 243.1 |
| 50° | 16801.5 | 13081.1 | 1194.3 | 690.5 | 584.8 | 436.9 | 310.0 | 243.1 | 218.4 | 214.9 | 214.9 |
| 52.5° | 18936.5 | 14106.4 | 972.4 | 609.5 | 493.2 | 359.4 | 260.7 | 214.9 | 193.8 | 183.2 | 183.2 |
| 55° | 20835.4 | 14775.7 | 789.2 | 510.8 | 387.5 | 285.4 | 225.5 | 193.8 | 169.1 | 155.0 | 151.5 |
| 57.5° | 22269.3 | 14856.8 | 591.9 | 408.7 | 288.9 | 222.0 | 193.8 | 169.1 | 140.9 | 123.3 | 116.3 |
| 60° | 22882.3 | 14155.7 | 436.9 | 310.0 | 214.9 | 176.2 | 155.0 | 137.4 | 105.7 | 88.1 | 84.6 |
| 62.5° | 22265.8 | 12792.3 | 324.1 | 236.0 | 165.6 | 130.4 | 109.2 | 102.2 | 74.0 | 52.8 | 49.3 |
| 65° | 20056.8 | 10822.9 | 257.2 | 179.7 | 123.3 | 95.1 | 70.5 | 66.9 | 45.8 | 24.7 | 21.1 |
| 67.5° | 16068.7 | 8476.5 | 204.3 | 133.9 | 88.1 | 63.4 | 45.8 | 42.3 | 24.7 | 7.0 | 7.0 |
| 70° | 10449.4 | 5418.5 | 165.6 | 98.6 | 56.4 | 42.3 | 28.2 | 21.1 | 14.1 | 3.5 | 0.0 |
| 72.5° | 5168.3 | 2533.1 | 133.9 | 77.5 | 38.8 | 21.1 | 10.6 | 7.0 | 10.6 | 0.0 | 0.0 |
| 75° | 2004.6 | 901.9 | 98.6 | 52.8 | 21.1 | 10.6 | 7.0 | 0.0 | 3.5 | 0.0 | 0.0 |
| 77.5° | 665.9 | 299.5 | 59.9 | 28.2 | 14.1 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 246.6 | 116.3 | 31.7 | 17.6 | 7.0 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 98.6 | 45.8 | 21.1 | 14.1 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 49.3 | 28.2 | 14.1 | 10.6 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 35.2 | 21.1 | 14.1 | 10.6 | 7.0 | 3.5 | 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)