

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: P653489

Luminaire Tested: **GLAN-SA7D-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38336.2 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

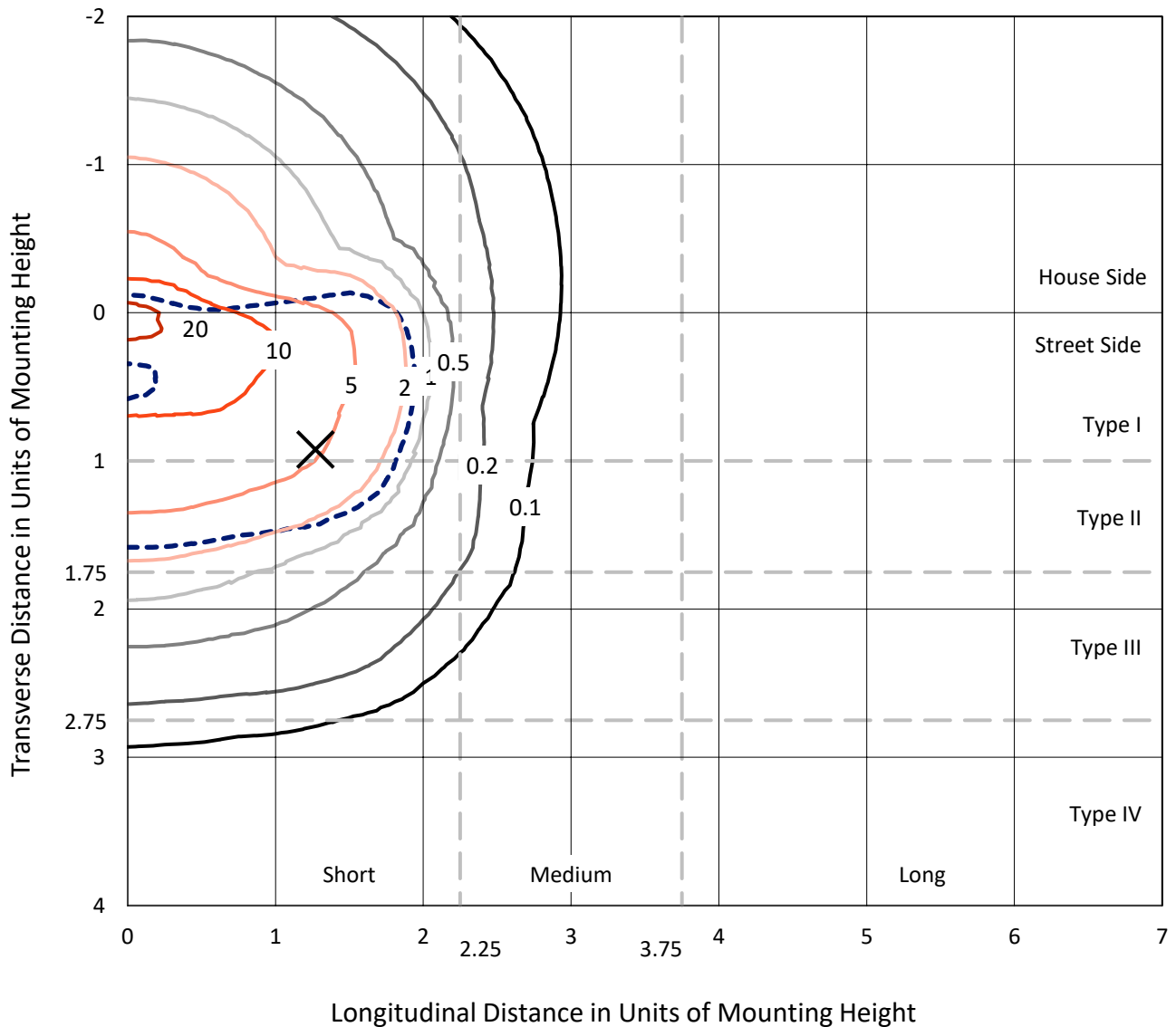
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P653489
 CATALOG NUMBER: GLAN-SA7D-840-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

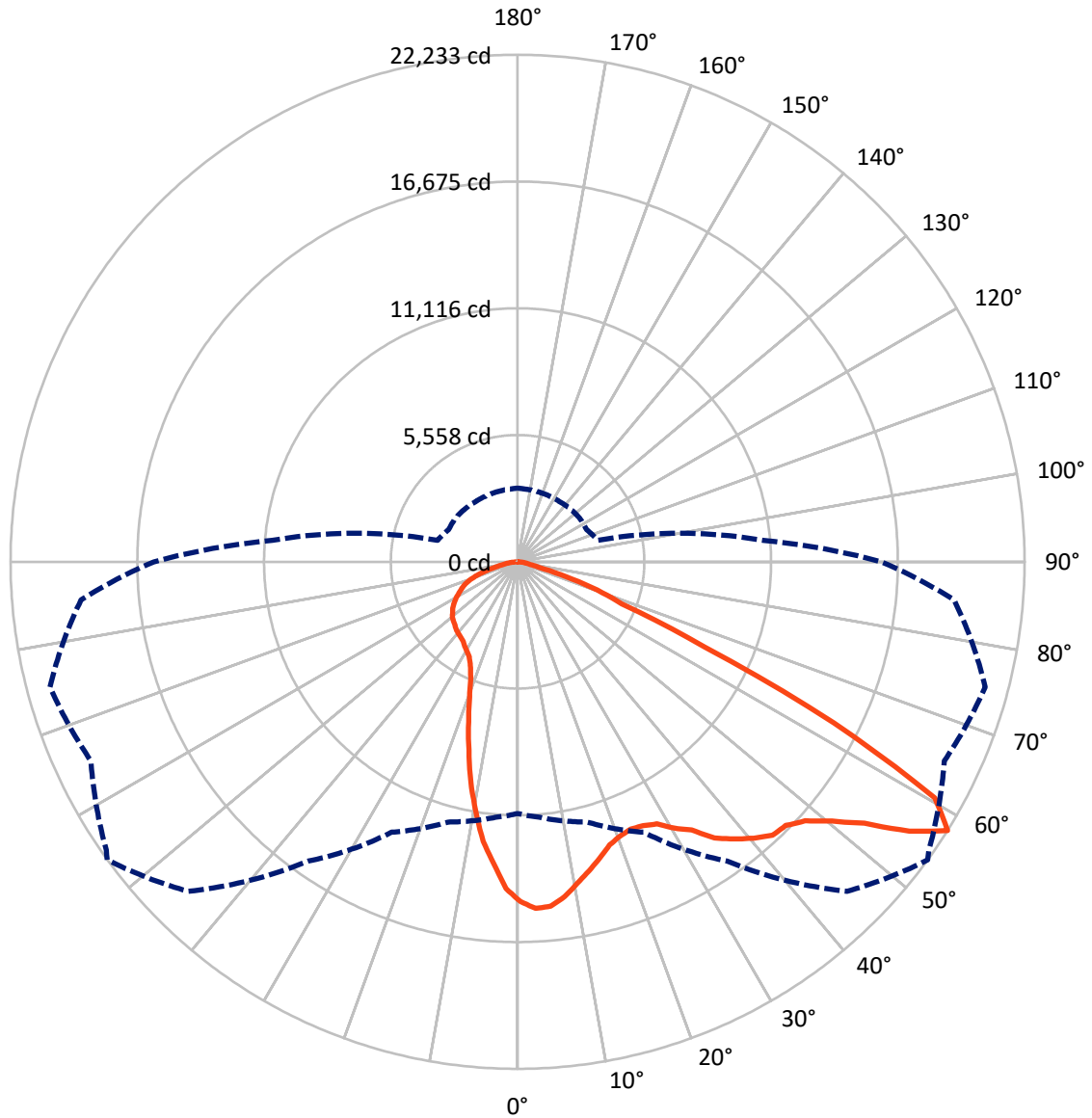
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.8 fc
 Type II - Short - N/A

REPORT NUMBER: P653489
CATALOG NUMBER: GLAN-SA7D-840-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P653489
 CATALOG NUMBER: GLAN-SA7D-840-U-SL3-GRSWH

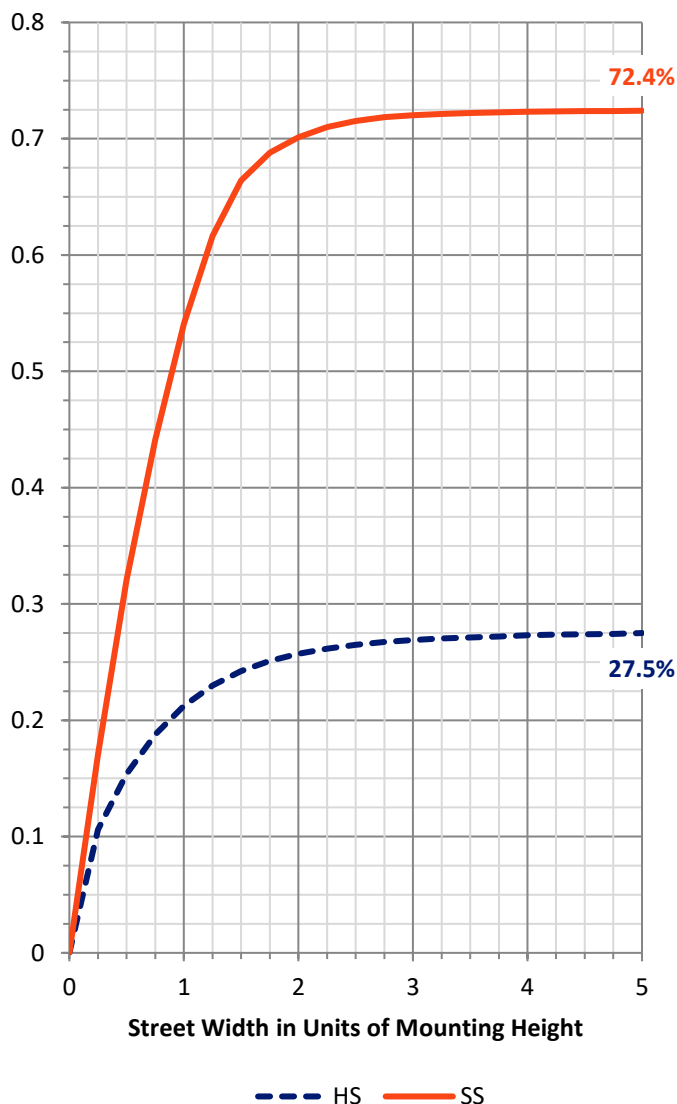
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10605.9 | 0.0 | 10605.9 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 27730.2 | 0.0 | 27730.2 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 38336.2 | 0.0 | 38336.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1285.1 | 3.4 |
| 10°-20° | 2975.4 | 7.8 |
| 20°-30° | 4180.4 | 10.9 |
| 30°-40° | 5844.3 | 15.2 |
| 40°-50° | 7912.0 | 20.6 |
| 50°-60° | 9637.2 | 25.1 |
| 60°-70° | 5019.5 | 13.1 |
| 70°-80° | 1286.2 | 3.4 |
| 80°-90° | 196.2 | 0.5 |
| 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° | 38336.2 | 100.0 |
| 0°-180° | 38336.2 | 100.0 |

Coefficient of Utilization



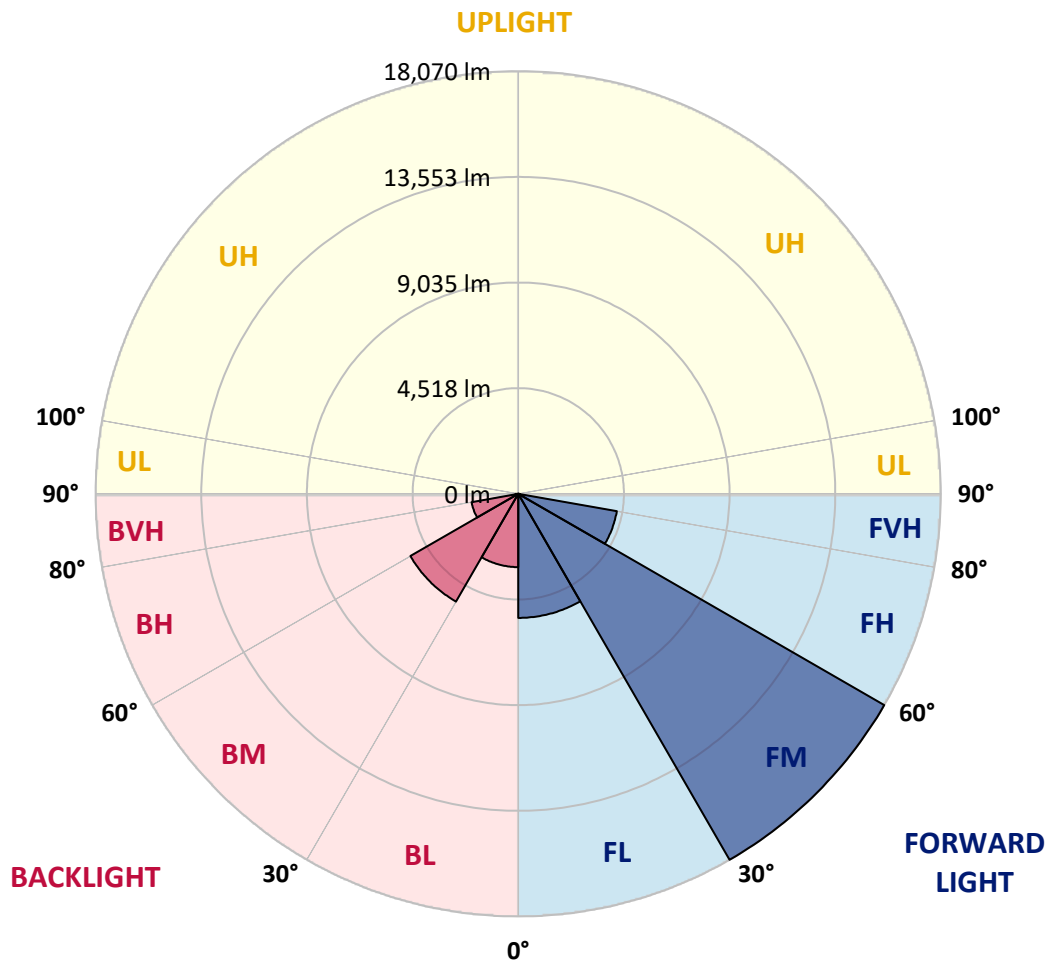
REPORT NUMBER: P653489
 CATALOG NUMBER: GLAN-SA7D-840-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5306.2 | 13.8 | | | |
| FM (30°-60°) | 18070.5 | 47.1 | | | |
| FH (60°-80°) | 4279.4 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 74.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3134.6 | 8.2 | B4/5000 | | |
| BM (30°-60°) | 5323.0 | 13.9 | B4/8500 | | |
| BH (60°-80°) | 2026.3 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 122.1 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P653489

CATALOG NUMBER: GLAN-SA7D-840-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14900.8 | 14900.8 | 14900.8 | 14900.8 | 14900.8 | 14900.8 | 14900.8 | 14900.8 | 14900.8 | 14900.8 | 14900.8 |
| 2.5° | 15324.6 | 15265.5 | 15275.3 | 15354.1 | 15255.6 | 15216.2 | 15216.2 | 15024.0 | 15038.8 | 14905.7 | 14871.2 |
| 5° | 14969.8 | 14831.9 | 14925.5 | 15043.7 | 15063.4 | 15102.8 | 15166.9 | 15117.6 | 14979.6 | 14836.8 | 14605.1 |
| 7.5° | 14043.4 | 14166.6 | 14201.1 | 14284.9 | 14462.3 | 14624.9 | 14826.9 | 14688.9 | 14684.0 | 14541.1 | 14403.1 |
| 10° | 13230.4 | 13156.5 | 13343.7 | 13466.9 | 13762.5 | 14033.6 | 14344.0 | 14329.2 | 14403.1 | 14240.6 | 14004.0 |
| 12.5° | 12422.2 | 12363.1 | 12451.8 | 12732.7 | 13146.6 | 13540.9 | 13910.4 | 13772.4 | 14166.6 | 14137.0 | 13629.5 |
| 15° | 11564.9 | 11609.2 | 11737.3 | 11998.5 | 12540.6 | 13013.5 | 13481.7 | 13486.6 | 13836.5 | 13954.7 | 13274.8 |
| 17.5° | 10963.7 | 10914.5 | 11077.1 | 11466.4 | 11949.3 | 12515.9 | 13048.0 | 13156.5 | 13693.6 | 13762.5 | 13166.4 |
| 20° | 10515.4 | 10584.3 | 10796.2 | 10993.3 | 11550.1 | 12235.0 | 12836.2 | 12875.6 | 13664.0 | 13851.3 | 12993.9 |
| 22.5° | 10407.0 | 10367.5 | 10436.5 | 10756.8 | 11215.1 | 11959.1 | 12722.8 | 12870.7 | 13659.1 | 13821.7 | 12668.7 |
| 25° | 10293.6 | 10421.7 | 10416.8 | 10737.0 | 11072.1 | 11737.3 | 12816.5 | 12979.1 | 13920.2 | 13974.5 | 12713.0 |
| 27.5° | 10549.8 | 10535.0 | 10673.0 | 10697.6 | 11111.5 | 11796.5 | 13013.5 | 13136.8 | 14353.9 | 14309.5 | 12747.5 |
| 30° | 10806.1 | 10732.2 | 10815.9 | 11106.7 | 11298.8 | 12136.5 | 13555.6 | 13545.7 | 14915.6 | 14886.0 | 12855.9 |
| 32.5° | 11121.4 | 11086.9 | 11141.1 | 11397.3 | 11722.5 | 12589.9 | 14013.8 | 14304.6 | 15487.2 | 15674.5 | 13230.4 |
| 35° | 11180.5 | 11323.5 | 11451.6 | 11796.5 | 12259.7 | 13324.0 | 14876.2 | 15117.6 | 16147.5 | 16733.9 | 13944.9 |
| 37.5° | 11555.0 | 11609.2 | 11909.8 | 12520.8 | 12944.6 | 14304.6 | 15423.1 | 15575.9 | 16748.6 | 17413.8 | 14698.8 |
| 40° | 11954.1 | 12018.2 | 12471.5 | 13112.1 | 13693.6 | 14945.2 | 15935.6 | 15984.9 | 16940.9 | 17936.2 | 15191.6 |
| 42.5° | 12496.2 | 12555.3 | 13003.7 | 13806.9 | 14585.5 | 15492.1 | 16388.9 | 16443.1 | 16926.1 | 18537.3 | 15975.0 |
| 45° | 13058.0 | 13200.8 | 13728.1 | 14639.6 | 15339.3 | 16132.7 | 16492.4 | 16714.1 | 17064.0 | 19074.5 | 16610.7 |
| 47.5° | 13846.3 | 13979.4 | 14413.0 | 15304.9 | 16122.8 | 16694.4 | 16970.4 | 17187.2 | 17394.2 | 19542.6 | 17019.7 |
| 50° | 14684.0 | 14708.7 | 15235.9 | 16044.0 | 16645.2 | 17330.1 | 17862.3 | 17936.2 | 17827.8 | 20084.6 | 17714.4 |
| 52.5° | 15300.0 | 15378.8 | 15787.8 | 16576.2 | 17473.0 | 18315.6 | 19044.9 | 19123.7 | 18911.8 | 20286.6 | 17951.0 |
| 55° | 14279.9 | 14235.6 | 14900.8 | 15950.4 | 18029.8 | 19784.0 | 20843.4 | 20902.6 | 19700.3 | 20912.4 | 18724.6 |
| 57.5° | 11037.6 | 11249.6 | 11816.2 | 13082.6 | 16019.4 | 20434.4 | 22232.9 | 22021.1 | 20646.3 | 21227.8 | 19217.4 |
| 60° | 8022.0 | 7972.8 | 8352.1 | 9199.7 | 12072.4 | 17611.0 | 21020.8 | 21237.6 | 19872.7 | 19133.6 | 15846.9 |
| 62.5° | 6533.9 | 6464.9 | 6494.5 | 6524.1 | 7790.4 | 11688.0 | 15561.1 | 15556.1 | 15304.9 | 13752.7 | 10687.8 |
| 65° | 5223.2 | 5385.8 | 5400.6 | 5622.3 | 5784.9 | 6982.3 | 9017.4 | 9500.3 | 8273.3 | 6785.2 | 4922.6 |
| 67.5° | 3937.1 | 3877.9 | 4075.1 | 4863.5 | 5169.0 | 5040.9 | 4922.6 | 4976.8 | 3537.9 | 2552.4 | 2404.7 |
| 70° | 2320.8 | 2296.2 | 2532.8 | 3390.2 | 4257.4 | 4006.1 | 3710.4 | 3715.4 | 2429.2 | 1783.8 | 1985.8 |
| 72.5° | 1271.3 | 1266.4 | 1315.7 | 1719.7 | 2419.4 | 2513.1 | 2227.2 | 2296.2 | 1448.7 | 1443.7 | 1552.1 |
| 75° | 709.6 | 694.8 | 680.0 | 758.8 | 872.2 | 921.5 | 941.2 | 951.0 | 995.3 | 1113.7 | 1158.0 |
| 77.5° | 261.1 | 251.3 | 251.3 | 290.7 | 369.5 | 463.2 | 586.3 | 596.3 | 704.7 | 808.1 | 852.4 |
| 80° | 88.7 | 98.6 | 133.0 | 182.3 | 246.4 | 330.2 | 399.1 | 409.0 | 497.7 | 566.7 | 581.5 |
| 82.5° | 54.2 | 59.1 | 88.7 | 128.1 | 177.4 | 231.6 | 295.6 | 300.6 | 369.5 | 413.9 | 433.6 |
| 85° | 24.6 | 29.6 | 49.3 | 78.8 | 113.4 | 152.7 | 157.7 | 157.7 | 152.7 | 157.7 | 147.8 |
| 87.5° | 0.0 | 0.0 | 9.8 | 9.8 | 9.8 | 14.8 | 19.7 | 14.8 | 24.6 | 29.6 | 29.6 |
| 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: P653489

CATALOG NUMBER: GLAN-SA7D-840-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14900.8 | 14900.8 | 14900.8 | 14900.8 | 14900.8 | 14900.8 | 14900.8 | 14900.8 | 14900.8 | 14900.8 | 14900.8 |
| 2.5° | 14767.8 | 14713.5 | 14546.0 | 14398.2 | 14353.9 | 14156.8 | 13866.1 | 13900.6 | 13688.6 | 13787.2 | 13683.7 |
| 5° | 14565.8 | 14383.5 | 13954.7 | 13772.4 | 13294.4 | 13077.6 | 12929.8 | 12560.3 | 12387.8 | 12353.3 | 12205.4 |
| 7.5° | 14048.4 | 13935.0 | 13397.9 | 12905.1 | 12397.6 | 11964.0 | 11407.2 | 11027.8 | 10756.8 | 10682.9 | 10466.1 |
| 10° | 13639.3 | 13388.0 | 12644.0 | 11895.0 | 11170.7 | 10416.8 | 9692.4 | 9125.8 | 8849.8 | 8529.5 | 8421.1 |
| 12.5° | 13235.3 | 12855.9 | 11850.7 | 10889.9 | 9953.6 | 9002.6 | 8125.5 | 7435.6 | 6834.5 | 6691.6 | 6642.3 |
| 15° | 12984.0 | 12323.8 | 11141.1 | 9983.2 | 8652.7 | 7411.0 | 6533.9 | 6080.6 | 5711.0 | 5558.3 | 5666.7 |
| 17.5° | 12653.9 | 11885.2 | 10461.1 | 8918.8 | 7455.3 | 6312.1 | 5577.9 | 5297.1 | 5164.1 | 5178.8 | 5134.5 |
| 20° | 12240.0 | 11471.2 | 9569.2 | 7953.0 | 6386.0 | 5474.5 | 5055.7 | 4952.1 | 4971.9 | 5006.4 | 4991.6 |
| 22.5° | 11944.3 | 10968.7 | 8923.8 | 6967.5 | 5518.8 | 5011.3 | 4838.9 | 4764.9 | 4828.9 | 4858.5 | 4833.9 |
| 25° | 11717.7 | 10540.0 | 8140.3 | 6095.3 | 5016.2 | 4750.1 | 4671.3 | 4666.4 | 4764.9 | 4804.3 | 4779.7 |
| 27.5° | 11510.7 | 10140.9 | 7361.7 | 5430.2 | 4681.2 | 4548.1 | 4523.5 | 4582.6 | 4646.7 | 4686.1 | 4720.5 |
| 30° | 11387.5 | 9835.3 | 6632.5 | 4873.3 | 4513.6 | 4449.6 | 4405.2 | 4459.4 | 4493.9 | 4533.3 | 4513.6 |
| 32.5° | 11505.7 | 9618.5 | 5927.8 | 4558.0 | 4375.6 | 4311.6 | 4370.7 | 4336.2 | 4395.3 | 4429.8 | 4375.6 |
| 35° | 11875.3 | 9426.3 | 5425.2 | 4390.4 | 4218.0 | 4242.6 | 4252.4 | 4237.6 | 4262.3 | 4232.8 | 4296.8 |
| 37.5° | 12240.0 | 9357.4 | 4962.0 | 4247.6 | 4144.0 | 4144.0 | 4134.2 | 4104.6 | 4153.9 | 4144.0 | 4173.6 |
| 40° | 12703.1 | 9401.7 | 4567.8 | 4094.7 | 4075.1 | 4065.2 | 4025.8 | 4020.8 | 4001.1 | 4006.1 | 4015.9 |
| 42.5° | 13107.2 | 9500.3 | 4341.2 | 3996.2 | 4011.0 | 4030.7 | 3956.8 | 3897.7 | 3922.3 | 3873.1 | 3873.1 |
| 45° | 13535.9 | 9588.9 | 4139.1 | 3927.2 | 3912.4 | 3907.5 | 3848.4 | 3813.9 | 3794.2 | 3799.1 | 3843.5 |
| 47.5° | 14211.0 | 9717.1 | 3986.3 | 3833.6 | 3843.5 | 3769.5 | 3754.7 | 3710.4 | 3730.2 | 3759.7 | 3764.7 |
| 50° | 14688.9 | 9988.1 | 3868.1 | 3725.2 | 3759.7 | 3710.4 | 3621.8 | 3602.0 | 3602.0 | 3651.3 | 3641.4 |
| 52.5° | 15024.0 | 10367.5 | 3754.7 | 3607.0 | 3621.8 | 3582.3 | 3552.7 | 3508.4 | 3478.8 | 3547.8 | 3582.3 |
| 55° | 16049.0 | 10998.3 | 3725.2 | 3508.4 | 3503.4 | 3464.1 | 3409.8 | 3365.5 | 3350.7 | 3360.6 | 3429.5 |
| 57.5° | 15950.4 | 10801.1 | 3631.6 | 3335.9 | 3326.1 | 3271.9 | 3217.7 | 3202.9 | 3198.0 | 3207.8 | 3227.5 |
| 60° | 12949.5 | 7977.6 | 3242.3 | 3138.9 | 3124.1 | 3114.2 | 3060.0 | 3000.9 | 2971.3 | 3000.9 | 2976.2 |
| 62.5° | 8568.9 | 5341.4 | 2858.0 | 2902.3 | 2912.1 | 2887.5 | 2798.8 | 2739.7 | 2749.6 | 2784.0 | 2729.9 |
| 65° | 4208.1 | 3138.9 | 2591.9 | 2710.1 | 2720.0 | 2651.0 | 2567.2 | 2498.3 | 2463.8 | 2493.3 | 2468.7 |
| 67.5° | 2404.7 | 2399.7 | 2375.1 | 2498.3 | 2493.3 | 2424.4 | 2291.3 | 2232.2 | 2173.1 | 2182.9 | 2168.1 |
| 70° | 2040.0 | 2079.4 | 2128.7 | 2202.6 | 2197.7 | 2118.8 | 1961.1 | 1916.8 | 1833.0 | 1823.2 | 1798.6 |
| 72.5° | 1606.4 | 1675.4 | 1783.8 | 1838.0 | 1793.6 | 1695.0 | 1591.6 | 1517.7 | 1443.7 | 1399.4 | 1414.2 |
| 75° | 1192.5 | 1291.0 | 1350.1 | 1384.6 | 1315.7 | 1261.4 | 1177.7 | 1089.0 | 1000.3 | 960.8 | 946.1 |
| 77.5° | 867.2 | 896.8 | 951.0 | 975.6 | 931.3 | 877.1 | 827.8 | 739.2 | 655.4 | 601.1 | 586.3 |
| 80° | 606.1 | 625.8 | 665.2 | 665.2 | 665.2 | 640.6 | 576.5 | 487.9 | 433.6 | 384.3 | 374.5 |
| 82.5° | 423.8 | 443.5 | 482.9 | 463.2 | 458.3 | 428.7 | 389.3 | 320.3 | 261.1 | 226.6 | 216.8 |
| 85° | 147.8 | 162.6 | 197.1 | 236.5 | 251.3 | 246.4 | 221.8 | 177.4 | 138.0 | 113.4 | 103.4 |
| 87.5° | 34.5 | 34.5 | 39.4 | 34.5 | 34.5 | 39.4 | 34.5 | 34.5 | 34.5 | 24.6 | 19.7 |
| 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)