

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: P528809

Luminaire Tested: **GLAN-SA3D-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528809  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3D-830-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10145 lumens  
Efficiency: N/A  
Efficacy: 55.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

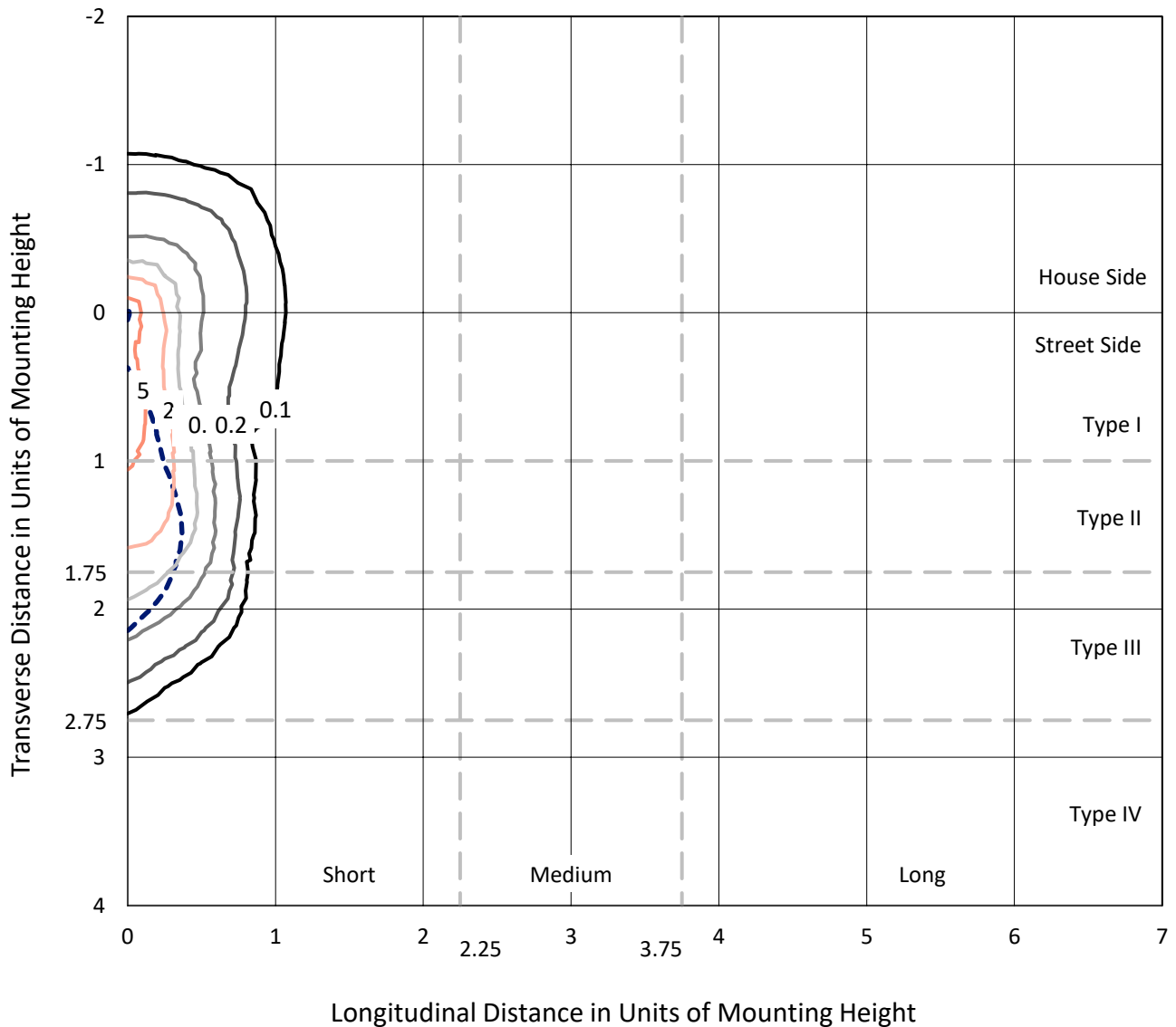
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

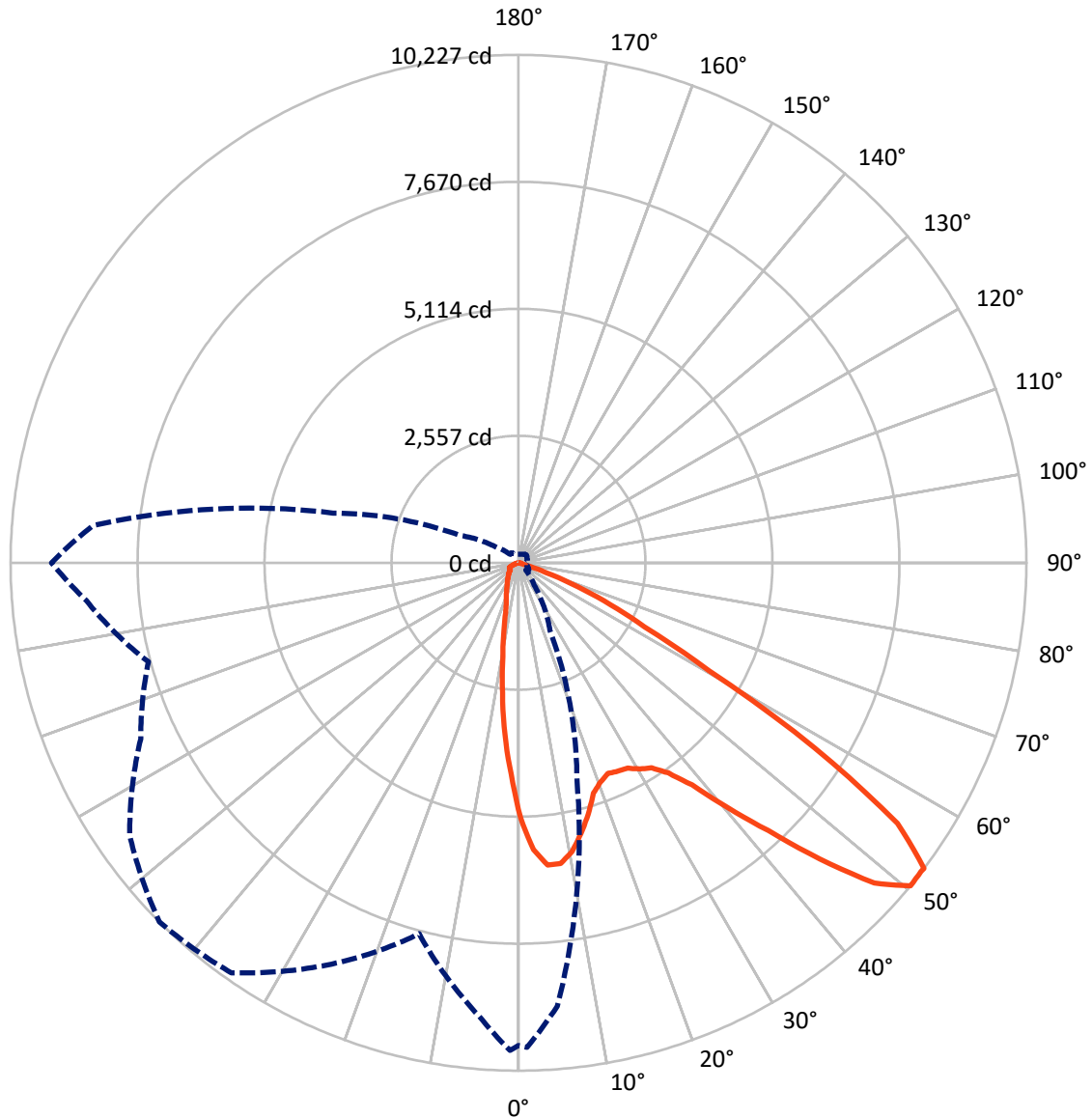
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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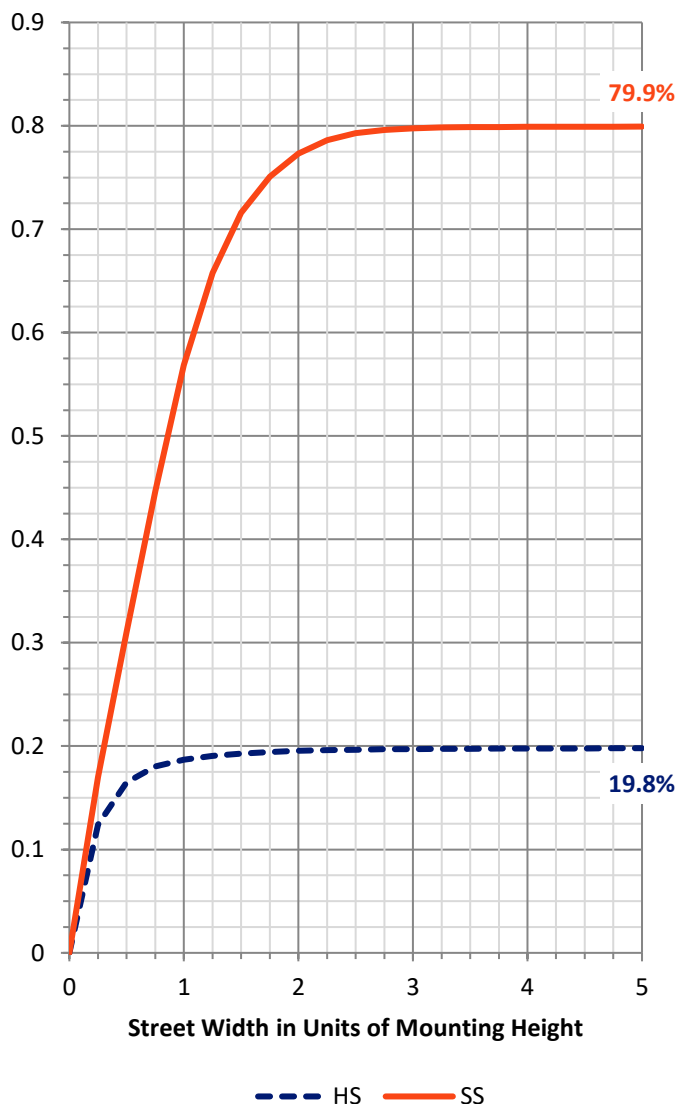
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2032.0	0.0	2032.0
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	8113.0	0.0	8113.0
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	10145.0	0.0	10145.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.0	3.7
10°-20°	745.3	7.3
20°-30°	1119.7	11.0
30°-40°	1680.6	16.6
40°-50°	2361.9	23.3
50°-60°	2547.8	25.1
60°-70°	1182.9	11.7
70°-80°	111.3	1.1
80°-90°	20.5	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°	10145.0	100.0
0°-180°	10145.0	100.0

**Coefficient of Utilization**



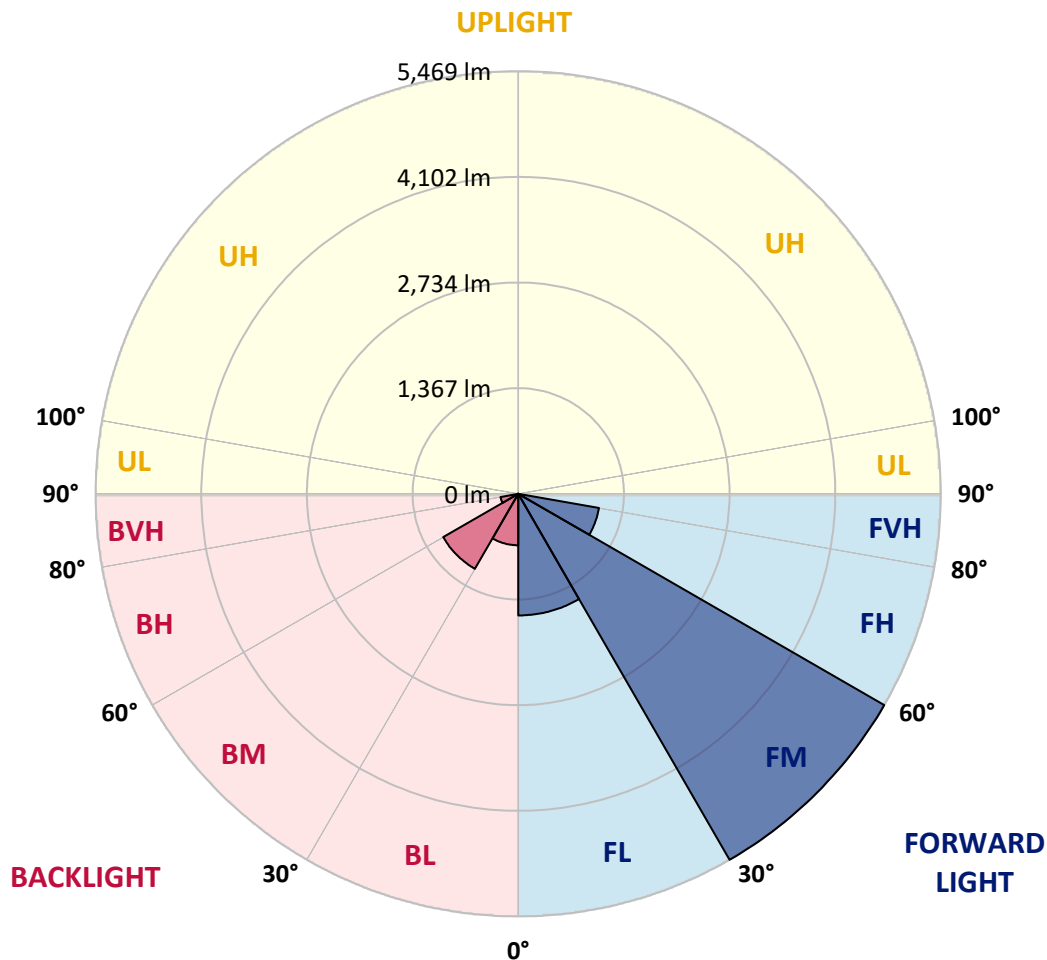
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1573.9	15.5			
FM (30°-60°)	5468.9	53.9			
FH (60°-80°)	1060.9	10.5			G1/1800
FVH (80°-90°)	9.2	0.1			G0/10
BL (0°-30°)	666.1	6.6	B2/1000		
BM (30°-60°)	1121.4	11.1	B2/2500		
BH (60°-80°)	233.3	2.3	B1/500		G1/500
BVH (80°-90°)	11.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8
2.5°	5348.1	5265.6	5160.9	5074.3	4945.5	4685.9	4615.4	4530.9	4460.4	4365.8	4233.0
5°	4863.0	4836.8	4788.5	4462.4	4226.9	3912.9	3655.3	3546.6	3403.7	3287.0	3202.4
7.5°	4492.6	4388.0	4235.0	3906.9	3530.5	3194.4	2908.5	2741.5	2552.3	2487.9	2373.1
10°	4096.1	4120.3	3894.8	3433.9	2979.0	2707.3	2530.1	2369.1	2198.0	2085.3	1922.3
12.5°	3969.3	3890.8	3717.7	3148.1	2759.6	2506.0	2290.6	2091.3	1910.2	1729.0	1572.0
15°	4051.8	3931.1	3689.5	3087.7	2590.5	2274.5	2004.8	1735.1	1568.0	1336.5	1173.5
17.5°	4347.7	4251.1	3927.0	3152.1	2504.0	2053.1	1652.5	1374.8	1119.1	909.8	827.3
20°	4840.9	4704.0	4297.4	3234.6	2375.1	1785.4	1340.5	998.4	756.8	668.3	622.0
22.5°	5323.9	5249.5	4736.2	3393.6	2260.4	1547.9	1006.4	672.3	565.6	549.5	519.3
25°	6243.8	6020.4	5406.5	3681.5	2171.8	1324.4	758.8	541.5	479.1	467.0	471.0
27.5°	6791.3	6604.1	6026.4	3872.7	2073.2	1153.4	642.1	497.2	454.9	428.7	418.7
30°	7316.6	7099.3	6334.4	3985.4	1861.9	972.2	569.6	477.0	467.0	428.7	416.7
32.5°	7721.2	7507.9	6779.2	4154.5	1775.3	855.5	469.0	372.4	346.2	342.2	378.4
35°	8341.2	8113.7	7159.6	4247.1	1708.9	795.1	406.6	332.1	301.9	289.8	291.9
37.5°	8918.9	8763.9	7511.9	4283.3	1638.4	777.0	364.3	297.9	271.7	263.7	261.7
40°	9401.9	9055.7	7846.0	4321.5	1608.3	742.7	338.2	271.7	253.6	241.5	241.5
42.5°	9623.3	9271.1	8220.4	4299.4	1600.2	688.4	338.2	249.6	235.5	223.4	221.4
45°	9575.0	9432.1	8387.5	4289.3	1600.2	634.0	308.0	243.6	223.4	207.3	203.3
47.5°	9699.8	9512.6	8596.8	4331.6	1568.0	595.8	259.7	255.6	211.3	191.2	187.2
50°	9722.0	9758.2	8961.1	4551.0	1497.5	547.5	203.3	251.6	203.3	173.1	169.1
52°	9866.9	9641.5	9071.8	4667.8	1423.1	511.3	171.1	215.4	195.2	161.0	157.0
52.5°	9667.6	9814.6	9098.0	4710.0	1431.1	487.1	165.1	211.3	191.2	161.0	151.0
55°	9444.2	9585.1	8991.3	4800.6	1312.4	382.4	128.8	153.0	173.1	140.9	134.9
57.5°	8208.3	8351.2	7813.8	4396.0	1068.8	269.7	106.7	114.7	153.0	130.8	124.8
60°	7296.5	7193.9	6557.8	3667.4	758.8	151.0	84.5	88.6	167.1	120.8	118.8
62.5°	6668.5	6449.1	5480.9	2832.1	463.0	100.6	66.4	68.4	128.8	112.7	112.7
65°	4933.4	4687.9	3641.2	1712.9	227.4	70.4	50.3	54.3	80.5	96.6	96.6
67.5°	2815.9	2721.3	1759.2	772.9	94.6	44.3	38.2	42.3	62.4	78.5	74.5
70°	1294.2	1161.4	676.3	163.0	44.3	30.2	30.2	34.2	50.3	58.4	54.3
72.5°	378.4	358.3	165.1	26.2	18.1	18.1	20.1	26.2	38.2	44.3	40.3
75°	28.2	18.1	12.1	8.1	8.1	12.1	16.1	26.2	38.2	42.3	34.2
77.5°	2.0	4.0	2.0	2.0	6.0	12.1	18.1	32.2	50.3	52.3	38.2
80°	2.0	2.0	0.0	2.0	6.0	12.1	20.1	36.2	56.4	60.4	32.2
82.5°	0.0	0.0	0.0	2.0	8.1	16.1	24.2	38.2	52.3	64.4	34.2
85°	0.0	0.0	0.0	2.0	12.1	22.1	28.2	10.1	6.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8
2.5°	4327.6	4275.3	4255.1	4273.2	4267.2	4261.2	4371.9	4347.7	4343.7	4379.9	4371.9
5°	3248.7	3156.1	3409.7	3307.1	3413.8	3478.2	3490.2	3496.3	3570.8	3492.3	3594.9
7.5°	2314.8	2338.9	2336.9	2405.3	2528.1	2636.8	2701.2	2650.9	2646.9	2636.8	2592.5
10°	1849.8	1807.5	1799.5	1783.4	1821.6	1914.2	1992.7	1930.3	1886.0	1946.4	1928.3
12.5°	1511.6	1453.3	1421.1	1356.6	1358.7	1421.1	1421.1	1421.1	1465.3	1499.6	1525.7
15°	1159.4	1111.1	1111.1	1046.7	1032.6	1034.6	1066.8	1070.8	1141.3	1161.4	1171.5
17.5°	811.2	785.0	815.2	841.4	825.3	829.3	841.4	845.4	855.5	847.4	867.5
20°	624.0	620.0	628.0	674.3	708.5	728.6	714.6	694.4	682.3	654.2	654.2
22.5°	529.4	537.4	551.5	589.8	634.0	646.1	630.0	583.7	547.5	543.5	545.5
25°	471.0	479.1	501.2	525.3	549.5	569.6	553.5	519.3	499.2	481.1	481.1
27.5°	434.8	438.8	450.9	469.0	489.1	505.2	499.2	481.1	458.9	450.9	432.8
30°	406.6	412.6	426.7	430.7	448.9	456.9	446.8	442.8	428.7	418.7	412.6
32.5°	392.5	390.5	400.6	404.6	406.6	412.6	400.6	406.6	404.6	388.5	382.4
35°	295.9	312.0	338.2	360.3	366.3	374.4	372.4	364.3	342.2	324.1	301.9
37.5°	265.7	275.8	289.8	308.0	332.1	342.2	338.2	318.0	291.9	279.8	275.8
40°	245.6	251.6	263.7	275.8	299.9	318.0	303.9	285.8	265.7	255.6	249.6
42.5°	227.4	229.5	235.5	247.6	265.7	293.9	269.7	245.6	237.5	231.5	227.4
45°	207.3	207.3	215.4	221.4	241.5	267.7	243.6	221.4	217.4	213.4	211.3
47.5°	191.2	193.2	197.3	205.3	221.4	239.5	223.4	205.3	195.2	193.2	189.2
50°	171.1	173.1	181.2	189.2	209.3	219.4	209.3	189.2	179.1	173.1	173.1
52°	155.0	161.0	169.1	185.2	199.3	215.4	203.3	181.2	169.1	163.0	159.0
52.5°	153.0	157.0	165.1	183.2	199.3	213.4	201.3	179.1	165.1	161.0	157.0
55°	136.9	142.9	157.0	179.1	197.3	213.4	197.3	177.1	157.0	146.9	142.9
57.5°	130.8	134.9	153.0	181.2	195.2	213.4	197.3	177.1	157.0	138.9	134.9
60°	124.8	132.8	153.0	175.1	193.2	215.4	199.3	175.1	153.0	130.8	130.8
62.5°	118.8	124.8	151.0	171.1	185.2	207.3	191.2	171.1	146.9	124.8	122.8
65°	102.7	112.7	132.8	142.9	159.0	179.1	163.0	148.9	128.8	110.7	108.7
67.5°	78.5	82.5	98.6	110.7	120.8	138.9	130.8	112.7	98.6	84.5	84.5
70°	54.3	58.4	70.4	76.5	86.6	96.6	90.6	76.5	66.4	58.4	56.4
72.5°	38.2	40.3	44.3	48.3	52.3	56.4	54.3	44.3	38.2	36.2	34.2
75°	30.2	34.2	36.2	34.2	32.2	30.2	30.2	26.2	22.1	20.1	20.1
77.5°	30.2	32.2	30.2	26.2	22.1	20.1	18.1	16.1	12.1	10.1	12.1
80°	26.2	26.2	26.2	22.1	20.1	18.1	16.1	14.1	12.1	10.1	10.1
82.5°	28.2	28.2	26.2	22.1	22.1	18.1	18.1	16.1	14.1	10.1	10.1
85°	0.0	0.0	0.0	4.0	10.1	18.1	18.1	16.1	14.1	12.1	12.1
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	8.1	10.1	12.1	12.1	12.1
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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8
2.5°	4444.3	4520.8	4665.7	4810.7	4899.2	5003.9	5193.1	5293.7	5424.6	5489.0	5615.8
5°	3580.8	3762.0	3826.4	3991.4	4168.6	4345.7	4627.5	4937.5	5195.1	5372.2	5601.7
7.5°	2612.7	2654.9	2904.5	3015.2	3305.1	3627.1	4011.6	4402.1	4728.1	5018.0	5193.1
10°	1958.5	2113.5	2270.5	2481.8	2715.3	3047.4	3415.8	3846.5	4269.2	4559.1	4780.5
12.5°	1574.0	1696.8	1906.2	2133.6	2421.4	2640.8	3011.2	3437.9	3985.4	4269.2	4561.1
15°	1191.6	1348.6	1586.1	1821.6	2125.5	2357.0	2731.4	3268.8	3973.3	4363.8	4615.4
17.5°	883.6	990.3	1203.7	1467.4	1777.3	2103.4	2608.6	3250.7	4108.2	4573.2	4832.8
20°	676.3	712.5	847.4	1082.9	1419.0	1845.8	2409.4	3329.2	4506.7	5082.4	5346.1
22.5°	547.5	563.6	615.9	779.0	1105.0	1620.3	2314.8	3383.6	4955.6	5692.3	6044.5
25°	477.0	473.0	507.2	577.7	863.5	1409.0	2194.0	3588.9	5505.1	6408.9	6724.9
27.5°	434.8	434.8	450.9	501.2	716.6	1272.1	2117.5	3735.8	6058.6	7038.9	7210.0
30°	412.6	416.7	463.0	479.1	595.8	1109.1	1990.7	3884.8	6588.0	7441.4	7676.9
32.5°	382.4	366.3	356.3	396.5	501.2	962.1	1863.9	3947.2	7016.7	7934.6	8135.9
35°	293.9	285.8	297.9	328.1	430.7	837.3	1723.0	4017.6	7509.9	8506.2	8546.5
37.5°	265.7	263.7	271.7	297.9	362.3	728.6	1622.3	3999.5	7886.3	8979.2	8870.5
40°	245.6	245.6	251.6	273.7	324.1	652.2	1517.7	3983.4	8250.6	9510.6	9192.6
42.5°	229.5	229.5	239.5	253.6	308.0	601.8	1439.2	3961.2	8556.5	9836.7	9381.8
45°	207.3	213.4	229.5	243.6	312.0	567.6	1380.8	3876.7	8661.2	9832.7	9291.2
47.5°	191.2	199.3	215.4	235.5	281.8	557.6	1340.5	3802.2	8625.0	9591.1	9007.4
50°	173.1	183.2	205.3	239.5	239.5	537.4	1298.3	3868.7	8598.8	9403.9	8735.7
52°	161.0	169.1	197.3	233.5	209.3	495.2	1272.1	3997.5	8705.5	9379.8	8614.9
52.5°	159.0	165.1	191.2	229.5	199.3	487.1	1254.0	4027.7	8739.7	9319.4	8697.4
55°	140.9	148.9	175.1	179.1	163.0	400.6	1195.6	4096.1	8570.6	9200.6	8618.9
57.5°	132.8	136.9	155.0	146.9	140.9	301.9	1028.6	3989.4	7612.5	8172.1	8019.1
60°	122.8	126.8	144.9	114.7	118.8	211.3	772.9	3464.1	6113.0	6809.4	7085.2
62.5°	118.8	116.7	136.9	92.6	100.6	153.0	545.5	2815.9	4710.0	5605.7	6082.8
65°	104.7	102.7	98.6	78.5	86.6	118.8	326.1	1837.7	3319.2	4241.0	4502.7
67.5°	80.5	84.5	72.5	62.4	72.5	92.6	181.2	823.2	1741.1	2544.2	2755.6
70°	56.4	60.4	58.4	54.3	64.4	76.5	104.7	281.8	720.6	1336.5	1473.4
72.5°	34.2	42.3	44.3	46.3	56.4	66.4	74.5	90.6	191.2	473.0	587.7
75°	20.1	28.2	34.2	40.3	46.3	56.4	62.4	64.4	66.4	88.6	142.9
77.5°	14.1	20.1	30.2	38.2	46.3	56.4	66.4	70.4	66.4	62.4	66.4
80°	12.1	20.1	28.2	36.2	48.3	58.4	66.4	66.4	64.4	56.4	60.4
82.5°	12.1	20.1	30.2	38.2	46.3	56.4	64.4	66.4	60.4	56.4	58.4
85°	14.1	22.1	32.2	40.3	50.3	46.3	42.3	34.2	32.2	26.2	28.2
87.5°	14.1	20.1	20.1	22.1	24.2	24.2	24.2	22.1	18.1	16.1	16.1
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: P528809

CATALOG NUMBER: GLAN-SA3D-830-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8	5144.8
2.5°	5621.8	5782.9	5776.8	5780.8	5756.7	5593.7	5515.2	5315.9	5372.2	5348.1
5°	5837.2	5996.2	6133.1	6117.0	5931.8	5710.4	5382.3	5072.3	4987.8	4863.0
7.5°	5621.8	6004.3	6131.1	6113.0	5839.2	5555.4	5032.1	4722.1	4575.2	4492.6
10°	5279.7	5722.5	5879.5	5911.7	5726.5	5295.8	4814.7	4317.5	4239.0	4096.1
12.5°	5084.4	5406.5	5503.1	5589.6	5525.2	5203.2	4649.6	4172.6	4063.9	3969.3
15°	4925.4	5116.6	5156.9	5255.5	5293.7	5120.6	4736.2	4329.6	4061.9	4051.8
17.5°	5072.3	4993.8	4846.9	4877.1	4997.9	5122.7	4959.6	4639.6	4379.9	4347.7
20°	5315.9	4969.7	4637.6	4712.0	4812.7	5195.1	5297.8	5072.3	4923.4	4840.9
22.5°	5595.7	5011.9	4571.1	4607.4	4798.6	5358.2	5845.3	5720.5	5442.7	5323.9
25°	6113.0	5128.7	4623.5	4647.6	4909.3	5585.6	6340.4	6433.0	6268.0	6243.8
27.5°	6618.2	5430.6	4738.2	4683.9	4965.7	5807.0	6640.3	7137.5	6847.6	6791.3
30°	6875.8	5676.2	4909.3	4816.7	5199.1	5941.9	6821.5	7596.4	7342.8	7316.6
32.5°	7270.3	5899.6	5042.1	4923.4	5330.0	6108.9	7159.6	8097.6	7852.1	7721.2
35°	7435.4	6143.2	5334.0	5195.1	5704.4	6342.4	7332.7	8544.5	8468.0	8341.2
37.5°	7753.4	6404.8	5678.2	5670.1	6157.2	6646.4	7644.7	9152.3	9138.2	8918.9
40°	7779.6	6690.6	6221.7	6475.3	6857.7	7175.7	7918.5	9321.4	9550.9	9401.9
42.5°	7819.8	7191.8	7161.6	7371.0	7699.1	7630.6	7928.5	9361.7	9711.9	9623.3
45°	7838.0	7693.0	8117.7	8504.2	8641.1	8226.4	7833.9	9285.2	9796.4	9575.0
47.5°	7693.0	8123.8	8890.7	9637.4	9677.7	8592.8	7793.7	9206.7	9846.8	9699.8
50°	7713.2	8393.5	9558.9	10227.2	10080.3	8916.8	7731.3	9158.4	9820.6	9722.0
52°	7664.9	8399.5	9653.5	10215.1	10112.5	8737.7	7624.6	8973.2	9796.4	9866.9
52.5°	7719.2	8363.3	9554.9	10223.2	10090.3	8826.3	7610.5	9075.9	9810.5	9667.6
55°	7532.0	7932.6	8977.2	9261.0	9240.9	8011.1	7177.8	8735.7	9442.2	9444.2
57.5°	6807.4	6875.8	7040.9	7034.8	6942.3	6298.1	6139.1	8033.2	8417.7	8208.3
60°	5998.2	5034.1	4589.3	4408.1	4305.4	4200.8	5430.6	7348.8	7385.1	7296.5
62.5°	5183.0	3490.2	2898.5	2848.2	2872.3	3254.7	5249.5	7077.1	6859.7	6668.5
65°	4182.7	2544.2	2105.4	2039.0	2274.5	2687.1	4249.1	5426.6	5092.5	4933.4
67.5°	2626.7	1855.8	1423.1	1298.3	1582.1	1849.8	2791.8	3409.7	3035.3	2815.9
70°	1557.9	1036.6	644.1	577.7	650.1	986.3	1564.0	1700.8	1407.0	1294.2
72.5°	613.9	380.4	179.1	153.0	159.0	346.2	575.7	561.6	424.7	378.4
75°	165.1	114.7	62.4	50.3	42.3	64.4	92.6	60.4	22.1	28.2
77.5°	76.5	68.4	54.3	42.3	32.2	24.2	12.1	4.0	4.0	2.0
80°	66.4	58.4	50.3	42.3	32.2	20.1	10.1	2.0	2.0	2.0
82.5°	62.4	54.3	46.3	38.2	30.2	20.1	10.1	2.0	0.0	0.0
85°	26.2	34.2	38.2	36.2	32.2	20.1	10.1	2.0	0.0	0.0
87.5°	14.1	12.1	10.1	8.1	6.0	4.0	4.0	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

(END OF REPORT)