

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: P654490

Luminaire Tested: **GLAN-SA7B-840-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P654490  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-840-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23937.4 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

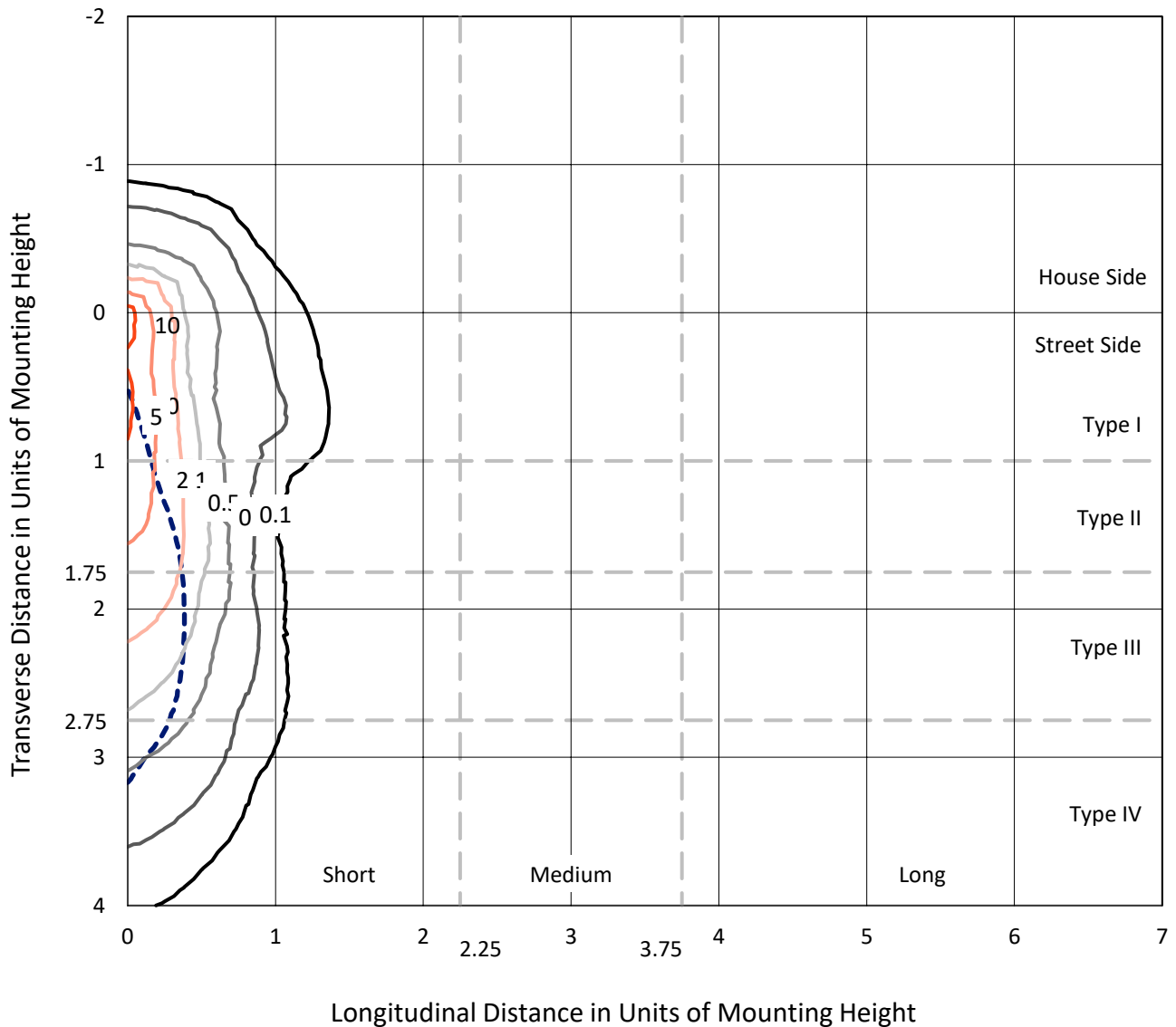
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

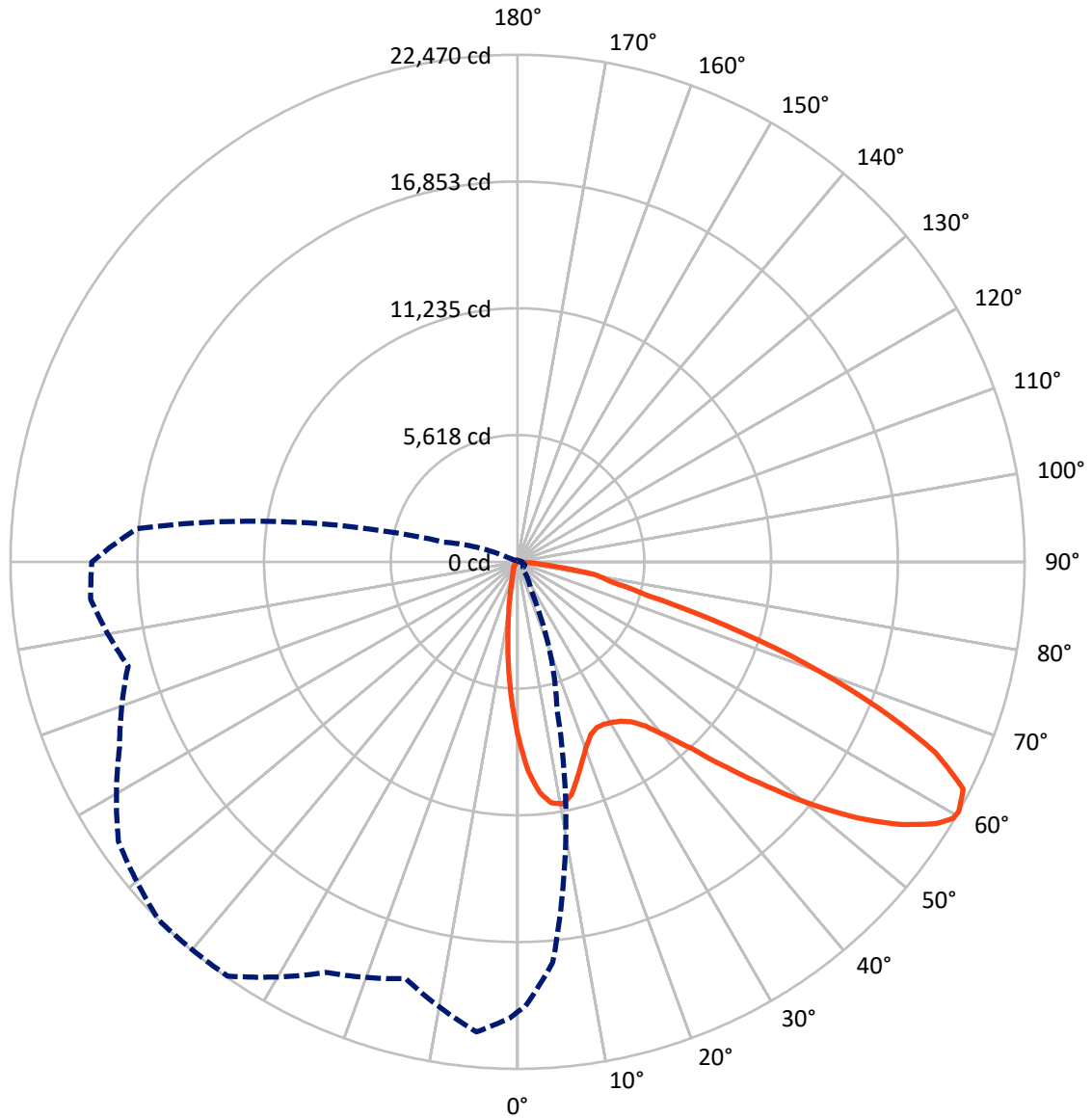
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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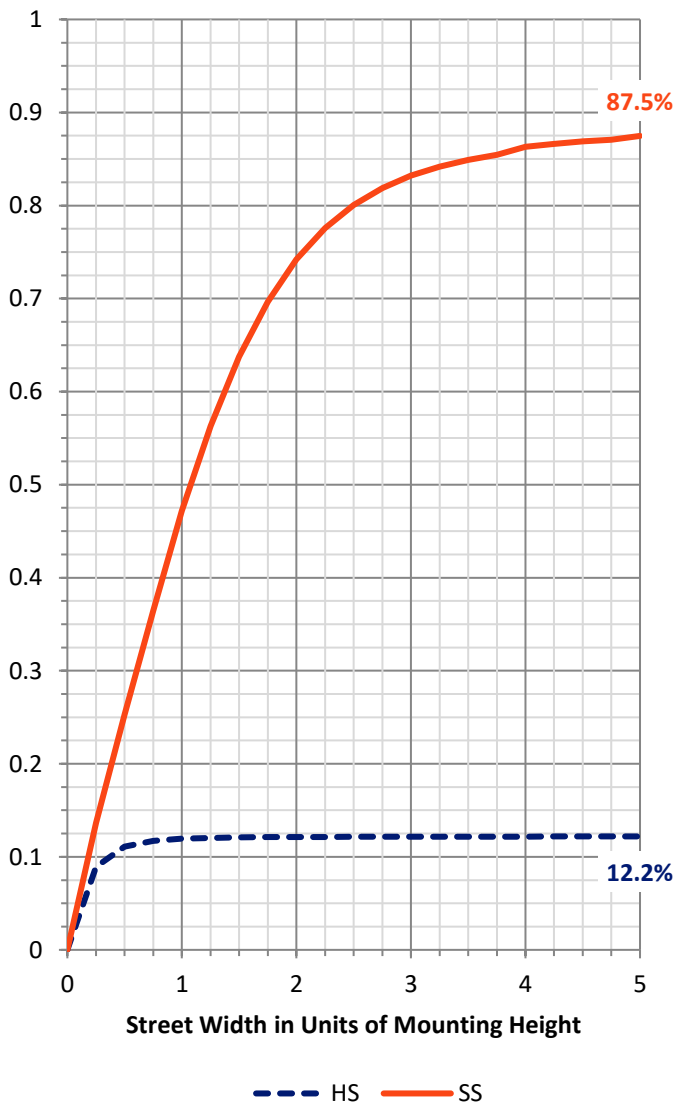
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2952.4	0.0	2952.4
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	20984.9	0.0	20984.9
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	23937.4	0.0	23937.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	588.4	2.5
10°-20°	1168.6	4.9
20°-30°	1713.6	7.2
30°-40°	2548.4	10.6
40°-50°	3708.7	15.5
50°-60°	5348.2	22.3
60°-70°	5882.4	24.6
70°-80°	2634.8	11.0
80°-90°	344.3	1.4
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°	23937.4	100.0
0°-180°	23937.4	100.0

**Coefficient of Utilization**



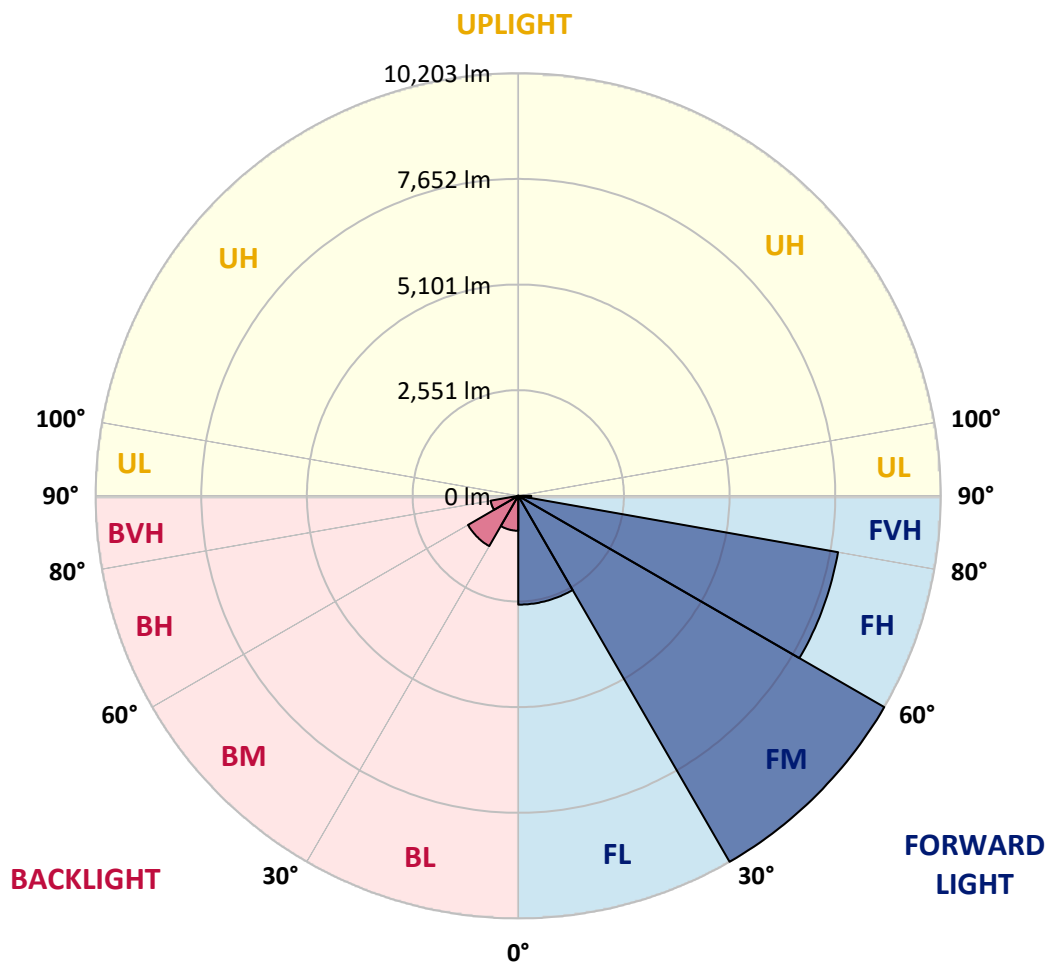
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2627.0	11.0			
FM (30°-60°)	10202.8	42.6			
FH (60°-80°)	7840.2	32.8			G4/12000
FVH (80°-90°)	314.9	1.3			G3/500
BL (0°-30°)	843.6	3.5	B2/1000		
BM (30°-60°)	1402.3	5.9	B2/2500		
BH (60°-80°)	677.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	29.4	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6
2.5°	8697.7	8659.5	8572.1	8306.5	8075.5	7773.4	7467.7	7227.5	7080.1	6809.0	6685.2
5°	8426.6	8444.8	8191.8	7646.0	7038.2	6623.4	6170.2	5810.0	5413.3	5162.2	4898.4
7.5°	7718.8	7682.4	7407.6	6647.0	5908.3	5307.8	4734.6	4268.8	3975.8	3741.1	3544.6
10°	7112.8	7085.5	6734.4	5755.4	4962.1	4512.6	4125.0	3717.5	3402.7	3058.7	2784.0
12.5°	6732.5	6670.6	6266.7	5244.1	4598.2	4179.6	3757.5	3333.6	2898.6	2551.1	2218.1
15°	6605.1	6516.0	6066.6	5067.6	4365.2	3834.0	3304.4	2816.8	2316.4	1932.4	1681.3
17.5°	6836.2	6688.9	6210.3	5036.7	4086.8	3382.7	2731.2	2096.2	1575.8	1282.9	1128.1
20°	7365.7	7196.5	6574.3	5005.7	3777.5	2876.8	2076.2	1481.2	1089.9	929.8	844.3
22.5°	8151.8	7918.9	7112.8	5054.8	3491.8	2383.6	1499.3	1046.3	866.1	766.1	706.0
25°	9096.2	8901.5	7795.2	5229.5	3266.2	1996.1	1159.1	855.2	729.7	667.8	622.3
27.5°	10131.5	9820.4	8677.7	5438.8	3060.6	1695.9	1017.2	764.2	649.6	593.2	569.5
30°	10868.5	10626.5	9416.4	5584.4	2804.0	1470.2	929.8	753.3	651.4	584.1	540.4
32.5°	11596.4	11287.0	10035.1	5651.7	2616.6	1313.7	804.2	656.9	571.4	536.8	493.1
35°	12375.1	12051.3	10651.9	5615.3	2476.5	1210.0	729.7	585.9	489.5	431.3	387.6
37.5°	13163.0	12821.0	11265.2	5484.3	2389.1	1168.1	671.5	556.8	462.2	402.2	354.8
40°	14098.3	13641.6	11840.2	5376.9	2298.2	1146.4	633.2	538.6	442.2	378.4	331.2
42.5°	14862.6	14427.7	12384.2	5320.5	2236.3	1095.4	633.2	524.0	429.4	358.4	309.3
45°	15586.8	15135.5	12972.0	5366.0	2210.8	1031.7	640.5	522.3	420.3	343.9	294.8
47.5°	16192.7	15801.5	13576.1	5537.1	2178.1	962.6	602.3	547.7	414.9	331.2	280.2
50°	16907.8	16529.3	14374.9	5882.8	2119.8	893.4	555.0	589.5	413.0	320.3	267.5
52.5°	17915.8	17506.4	15477.6	6275.8	2027.1	787.8	511.3	584.1	405.8	302.1	254.7
55°	19147.7	18816.5	16754.9	6747.1	1899.7	669.6	442.2	518.6	383.9	271.1	232.9
57.5°	19937.4	19655.3	17712.0	6950.9	1705.0	547.7	389.4	434.9	351.2	242.0	207.5
59°	20030.3	19775.4	17912.2	6883.6	1577.6	500.4	363.9	373.0	342.1	225.6	192.8
60°	19952.0	19688.1	17832.1	6752.6	1459.3	467.7	342.1	331.2	343.9	216.6	182.0
62.5°	19449.8	18998.5	17055.1	6088.4	1275.5	429.4	303.9	271.1	303.9	194.7	162.0
65°	18479.9	17803.0	15517.6	5153.1	1202.8	407.6	258.4	227.5	231.1	171.1	140.1
67.5°	16785.9	15932.5	13470.5	4186.9	1171.8	409.4	218.3	203.8	178.3	145.6	123.7
70°	14107.4	13255.8	10808.4	3444.5	1157.3	409.4	185.6	174.7	149.2	121.9	107.4
72.5°	9996.9	9079.9	7291.1	2705.7	1042.7	407.6	158.3	158.3	121.9	101.9	87.4
75°	5648.1	5655.3	4583.6	1914.2	866.1	336.7	127.4	125.6	89.1	78.2	65.5
77.5°	3291.7	3233.5	3089.7	822.5	402.2	152.8	89.1	76.4	61.9	56.4	47.3
80°	1692.3	1392.0	1355.6	298.4	143.7	96.5	61.9	43.6	40.0	36.4	32.7
82.5°	500.4	502.2	447.7	120.1	80.1	63.7	30.9	23.6	21.9	20.0	20.0
85°	34.6	21.9	25.5	36.4	49.1	25.5	1.9	5.5	5.5	7.3	9.1
87.5°	3.6	1.9	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°	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6
2.5°	6548.8	6628.8	6479.7	6483.3	6359.6	6399.6	6254.0	6301.3	6215.7	6281.3	6474.2
5°	4927.5	4945.7	4825.6	4787.4	4805.6	4880.2	4909.3	4776.5	4832.9	4721.9	4714.6
7.5°	3471.8	3493.7	3424.5	3415.4	3546.4	3515.5	3571.9	3435.4	3306.2	3362.7	3258.9
10°	2696.7	2605.7	2463.7	2423.7	2398.3	2414.6	2414.6	2290.9	2272.7	2223.5	2298.2
12.5°	2128.9	2018.0	1883.3	1701.3	1655.8	1652.2	1584.9	1475.7	1441.1	1399.3	1461.2
15°	1546.7	1501.2	1388.3	1286.5	1182.8	1162.8	1053.5	964.4	846.1	829.7	824.3
17.5°	1088.1	1020.8	1019.0	960.8	900.7	860.7	758.8	656.9	611.4	605.9	605.9
20°	815.2	791.5	753.3	746.1	727.8	682.4	591.4	536.8	514.9	516.8	524.0
22.5°	686.0	669.6	635.0	618.6	611.4	571.4	504.0	467.7	456.7	456.7	458.5
25°	613.2	598.6	560.4	535.0	525.9	496.8	444.0	416.7	407.6	407.6	407.6
27.5°	558.6	540.4	500.4	478.5	462.2	429.4	396.7	369.4	360.3	360.3	362.1
30°	520.4	500.4	464.0	434.9	409.4	380.3	353.0	329.3	318.4	316.6	318.4
32.5°	469.4	451.3	414.9	396.7	367.6	333.0	311.2	289.3	278.4	280.2	278.4
35°	365.8	360.3	334.8	340.3	323.9	294.8	274.8	251.1	238.3	236.6	240.2
37.5°	333.0	311.2	282.1	283.8	278.4	267.5	234.7	209.2	200.2	200.2	202.0
40°	307.6	285.7	252.9	236.6	238.3	238.3	203.8	176.5	167.4	165.6	169.2
42.5°	285.7	263.8	227.5	200.2	192.8	202.0	172.8	145.6	136.5	132.8	136.5
45°	271.1	247.5	205.6	174.7	152.8	163.7	142.0	120.1	109.2	109.2	107.4
47.5°	256.6	234.7	189.2	151.0	127.4	121.9	116.5	96.5	85.5	83.7	85.5
50°	243.8	222.0	171.1	131.0	107.4	94.6	94.6	76.4	69.1	65.5	67.4
52.5°	231.1	207.5	154.7	116.5	92.8	76.4	67.4	61.9	56.4	54.6	56.4
55°	212.9	189.2	138.3	100.1	80.1	63.7	52.7	51.0	47.3	43.6	47.3
57.5°	191.1	169.2	121.9	85.5	63.7	49.1	43.6	41.9	38.2	36.4	36.4
59°	178.3	158.3	112.8	74.6	56.4	43.6	40.0	38.2	34.6	30.9	32.7
60°	171.1	154.7	107.4	69.1	51.0	40.0	36.4	34.6	30.9	29.1	30.9
62.5°	151.0	138.3	94.6	56.4	40.0	29.1	25.5	27.3	25.5	23.6	25.5
65°	132.8	121.9	80.1	43.6	30.9	20.0	18.2	23.6	21.9	20.0	21.9
67.5°	118.2	105.5	67.4	32.7	21.9	10.9	12.7	20.0	20.0	18.2	20.0
70°	101.9	91.0	54.6	23.6	10.9	5.5	9.1	14.5	18.2	16.4	18.2
72.5°	83.7	71.0	41.9	16.4	5.5	0.0	5.5	12.7	18.2	16.4	18.2
75°	65.5	52.7	30.9	9.1	0.0	0.0	1.9	10.9	18.2	16.4	18.2
77.5°	47.3	38.2	18.2	1.9	0.0	0.0	1.9	10.9	18.2	16.4	18.2
80°	30.9	27.3	7.3	0.0	0.0	0.0	1.9	10.9	18.2	18.2	20.0
82.5°	20.0	14.5	0.0	0.0	0.0	0.0	3.6	14.5	20.0	21.9	21.9
85°	9.1	0.0	0.0	0.0	0.0	0.0	7.3	18.2	23.6	23.6	23.6
87.5°	0.0	0.0	0.0	0.0	0.0	3.6	12.7	21.9	27.3	27.3	27.3
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°	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6
2.5°	6506.9	6621.5	6783.5	7032.8	7234.8	7553.2	7797.0	8130.0	8466.6	8568.5	8726.8
5°	4789.2	4936.6	5304.2	5639.0	5850.0	6523.3	6949.1	7620.5	8222.8	8512.1	8826.9
7.5°	3326.2	3500.9	3781.1	4248.8	4692.8	5240.4	5928.3	6696.1	7578.7	7991.7	8435.7
10°	2334.5	2552.9	2947.8	3331.7	3890.3	4410.7	5089.5	5937.4	6910.8	7398.5	7955.4
12.5°	1473.9	1668.5	2190.8	2622.1	3318.9	3923.1	4549.1	5316.9	6445.0	6945.4	7529.6
15°	842.5	1006.3	1250.1	1803.2	2576.6	3375.4	4156.0	5047.6	6206.7	6823.5	7455.0
17.5°	627.7	671.5	780.6	1093.6	1797.8	2731.2	3793.9	4965.7	6368.6	7092.8	7813.4
20°	527.7	556.8	607.7	731.5	1146.4	2103.4	3440.9	4980.2	6892.7	7802.5	8486.6
22.5°	473.1	491.3	533.1	613.2	782.5	1532.1	3027.9	5065.8	7527.7	8674.1	9463.8
25°	414.9	438.5	474.9	544.0	651.4	1062.7	2620.2	5256.8	8417.5	9780.4	10522.8
27.5°	369.4	391.2	427.6	491.3	571.4	811.6	2145.3	5420.6	9356.4	10894.0	11501.8
30°	323.9	345.7	382.2	433.0	505.9	656.9	1634.0	5517.0	10268.0	11729.2	12196.9
32.5°	285.7	303.9	338.4	383.9	444.0	556.8	1288.2	5417.0	10965.0	12487.9	12800.9
35°	247.5	269.3	298.4	340.3	393.0	474.9	1071.8	5071.2	11563.6	13268.5	13381.4
37.5°	207.5	232.9	263.8	302.1	343.9	436.7	860.7	4689.2	12204.1	14242.1	14056.5
40°	174.7	198.3	227.5	269.3	307.6	400.3	662.4	4281.5	12895.6	15155.5	14793.4
42.5°	142.0	167.4	202.0	240.2	303.9	349.4	513.1	3859.3	13516.0	15950.7	15459.3
45°	112.8	134.6	171.1	220.2	302.1	300.2	396.7	3442.7	13983.6	16518.4	15956.1
47.5°	89.1	107.4	143.7	214.7	278.4	254.7	318.4	3184.3	14475.0	17029.7	16336.4
50°	71.0	89.1	123.7	223.8	243.8	218.3	267.5	3226.2	14949.9	17289.9	16492.9
52.5°	60.0	78.2	107.4	176.5	187.5	191.1	234.7	3419.0	15563.1	17568.3	16804.0
55°	52.7	69.1	91.0	123.7	145.6	171.1	214.7	3559.1	16383.8	18165.1	17490.0
57.5°	41.9	60.0	81.9	105.5	120.1	149.2	198.3	3570.0	17126.1	18931.2	18401.7
59°	38.2	54.6	76.4	100.1	107.4	134.6	187.5	3477.3	17153.5	19045.8	18820.2
60°	34.6	52.7	72.7	92.8	101.9	127.4	178.3	3369.9	16906.0	18863.9	18993.1
62.5°	29.1	45.5	63.7	74.6	87.4	105.5	154.7	2980.5	15706.9	18039.5	18672.8
65°	25.5	40.0	54.6	61.9	72.7	91.0	136.5	2385.5	14382.2	16922.3	17755.7
67.5°	23.6	36.4	47.3	52.7	63.7	83.7	121.9	1684.9	12666.3	15504.8	16378.3
70°	21.9	34.6	41.9	49.1	56.4	71.0	103.7	982.6	9756.7	13019.3	13941.8
72.5°	21.9	32.7	36.4	41.9	49.1	63.7	96.5	531.3	6670.6	9931.4	11123.2
75°	21.9	30.9	32.7	36.4	43.6	58.2	85.5	278.4	4312.5	6900.0	8515.8
77.5°	21.9	29.1	32.7	34.6	41.9	51.0	74.6	174.7	2873.2	4832.9	5755.4
80°	23.6	29.1	30.9	34.6	40.0	47.3	61.9	116.5	1688.6	2907.8	3502.8
82.5°	25.5	29.1	32.7	36.4	41.9	45.5	54.6	72.7	778.8	1923.3	2176.3
85°	27.3	30.9	34.6	38.2	43.6	45.5	51.0	52.7	127.4	867.9	1173.6
87.5°	29.1	32.7	36.4	40.0	47.3	47.3	47.3	47.3	43.6	92.8	236.6
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: P654490

CATALOG NUMBER: GLAN-SA7B-840-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6	7911.6
2.5°	8927.0	9132.6	9276.3	9312.7	9209.0	9161.7	9030.7	8826.9	8703.2	8697.7
5°	9407.3	9889.6	10224.4	10280.8	10080.6	9742.1	9340.1	8821.4	8517.6	8426.6
7.5°	9325.5	10169.8	10708.4	10786.7	10450.0	9804.0	9025.3	8190.1	7858.9	7718.8
10°	8988.9	10018.7	10788.4	10912.1	10462.7	9552.9	8563.1	7631.4	7220.2	7112.8
12.5°	8701.3	9742.1	10426.4	10597.4	10257.1	9349.1	8286.5	7273.0	6832.6	6732.5
15°	8575.8	9414.7	9833.1	9920.5	9864.1	9221.7	8257.4	7218.4	6714.4	6605.1
17.5°	8701.3	9136.2	9189.0	9278.2	9403.7	9209.0	8537.6	7515.0	6970.9	6836.2
20°	9030.7	8894.2	8675.8	8714.1	9001.6	9261.8	9036.1	8171.8	7509.5	7365.7
22.5°	9591.2	8834.2	8339.3	8306.5	8670.5	9438.3	9767.6	9061.6	8293.8	8151.8
25°	10279.0	8985.2	8215.6	8144.6	8541.2	9696.6	10562.8	10151.5	9312.7	9096.2
27.5°	11028.6	9298.2	8215.6	8146.3	8530.3	9926.0	11243.3	11116.0	10368.1	10131.5
30°	11439.9	9556.5	8333.8	8255.6	8665.0	10058.8	11607.2	11973.0	11161.5	10868.5
32.5°	11807.4	9915.1	8564.9	8417.5	8947.0	10255.3	11932.9	12700.9	11792.8	11596.4
35°	12145.9	10299.0	8883.3	8712.3	9318.2	10524.6	12293.2	13465.1	12671.8	12375.1
37.5°	12518.9	10744.8	9380.1	9234.5	9938.7	11048.6	12720.9	14469.5	13536.1	13163.0
40°	12924.7	11261.6	10197.0	10135.2	10924.9	11641.9	13261.3	15541.3	14522.3	14098.3
42.5°	13337.7	11856.6	11197.8	11299.8	12042.2	12473.4	13816.3	16365.5	15330.2	14862.6
45°	13712.6	12617.2	12498.9	13002.9	13345.0	13284.9	14227.5	16946.0	16034.3	15586.8
47.5°	14185.7	13725.3	14072.9	14849.8	14858.9	14167.5	14538.6	17420.9	16640.3	16192.7
50°	14715.1	15033.5	16105.3	16896.9	16683.9	15035.4	14902.6	17983.2	17266.2	16907.8
52.5°	15328.4	16498.4	17983.2	18862.0	18365.3	15981.6	15508.5	18590.9	18259.7	17915.8
55°	16041.7	17497.3	19855.5	20556.1	20055.7	17157.1	16429.2	19415.2	19382.4	19147.7
57.5°	16847.8	18552.7	20940.1	21888.0	21442.2	18536.3	17715.7	20192.2	20068.4	19937.4
59°	17484.6	19094.9	21418.6	22401.2	22131.8	19502.5	18580.0	20676.2	20226.7	20030.3
60°	17870.3	19462.5	21595.1	22470.3	22408.4	20077.5	19127.7	20912.7	20225.0	19952.0
62.5°	19014.8	20104.9	21527.7	22162.8	22404.8	21180.2	20734.4	21172.9	19850.1	19449.8
65°	19422.5	19891.9	20412.3	20334.1	20541.5	21123.8	21760.7	20887.2	19049.5	18479.9
67.5°	18629.2	17557.4	17741.1	17219.0	17117.0	18780.1	21344.0	19489.8	17482.8	16785.9
70°	15703.2	13450.5	13357.7	13597.9	12939.2	15204.6	19165.9	16798.6	14897.1	14107.4
72.5°	12360.6	9505.7	8723.2	9607.5	9587.5	11600.0	15921.6	11920.2	10064.2	9996.9
75°	9720.4	6617.9	5808.2	5951.9	6228.5	8397.5	12680.9	7569.6	6197.6	5648.1
77.5°	6525.1	4689.2	4374.3	4197.9	4496.2	5391.5	8022.6	4105.0	3475.4	3291.7
80°	3761.1	3406.3	3868.5	3511.8	3672.0	3397.2	3990.4	1883.3	1563.1	1692.3
82.5°	2447.4	1939.7	2067.1	1535.8	2099.8	2118.1	1281.0	556.8	471.3	500.4
85°	1530.3	909.8	511.3	363.9	724.2	1332.0	400.3	34.6	40.0	34.6
87.5°	396.7	151.0	63.7	94.6	116.5	103.7	92.8	5.5	1.9	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)