

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: P653494

Luminaire Tested: **GLAN-SA7D-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7D-840-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25051.7 lumens  
Efficiency: N/A  
Efficacy: 57.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

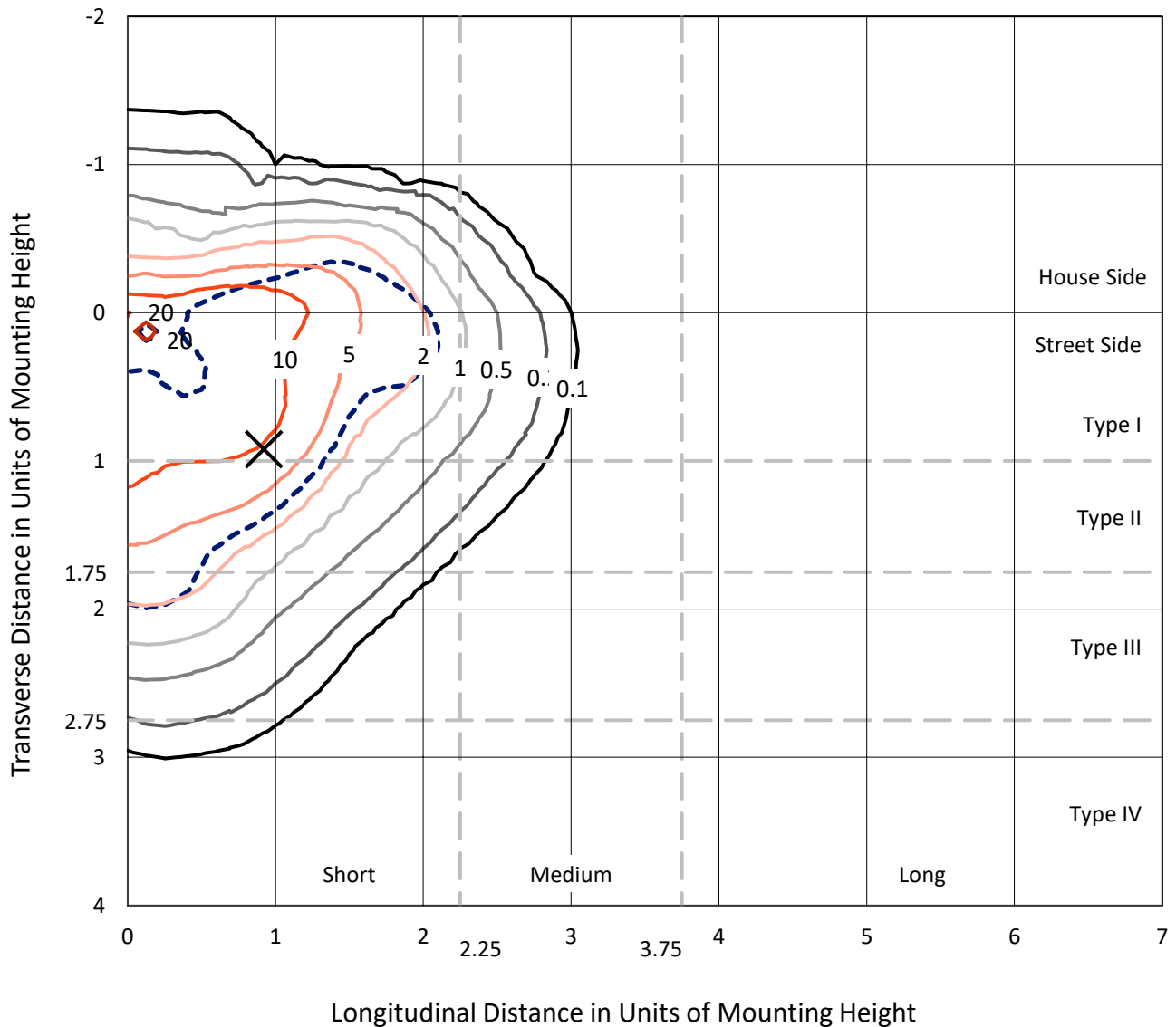
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

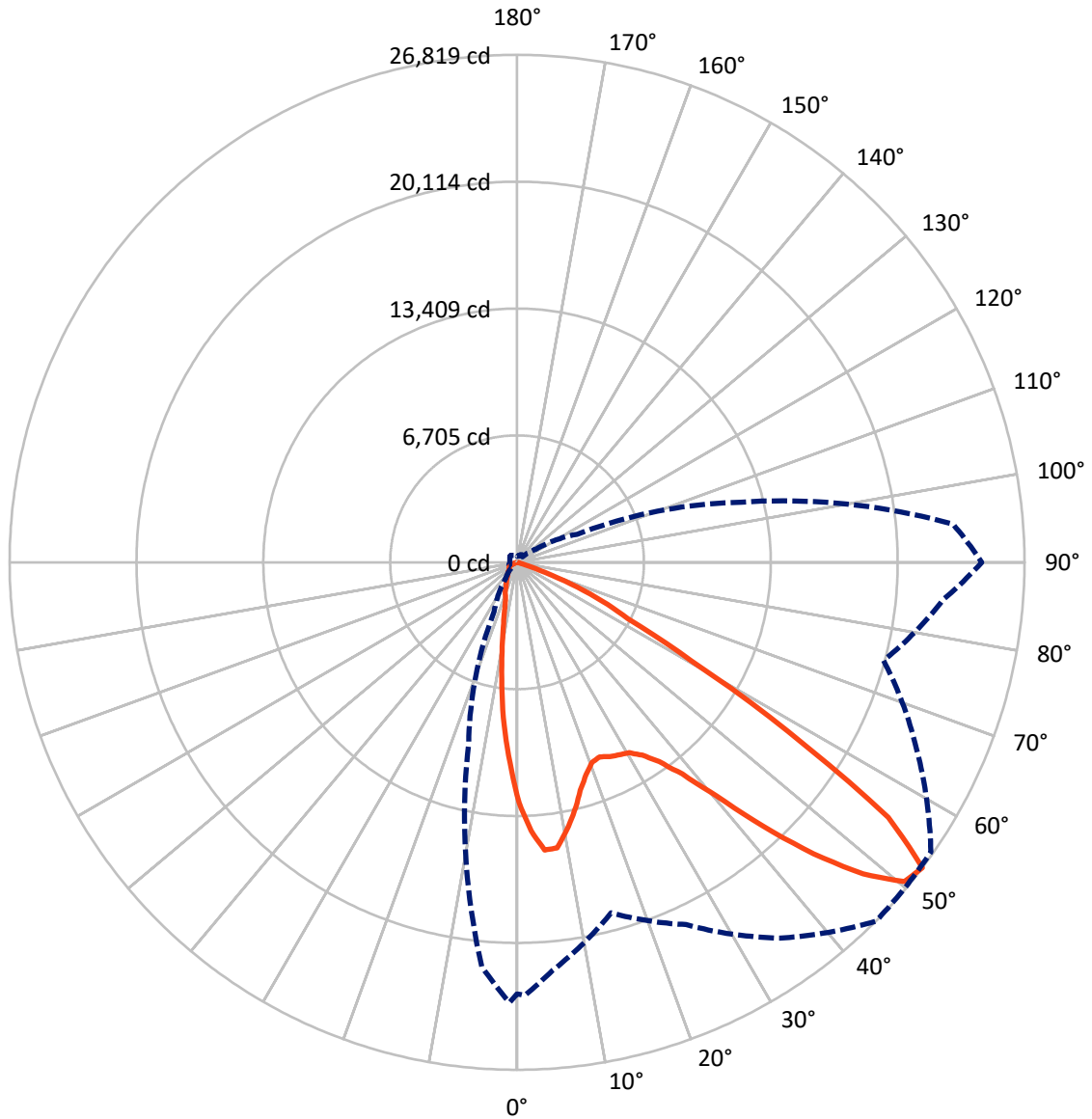
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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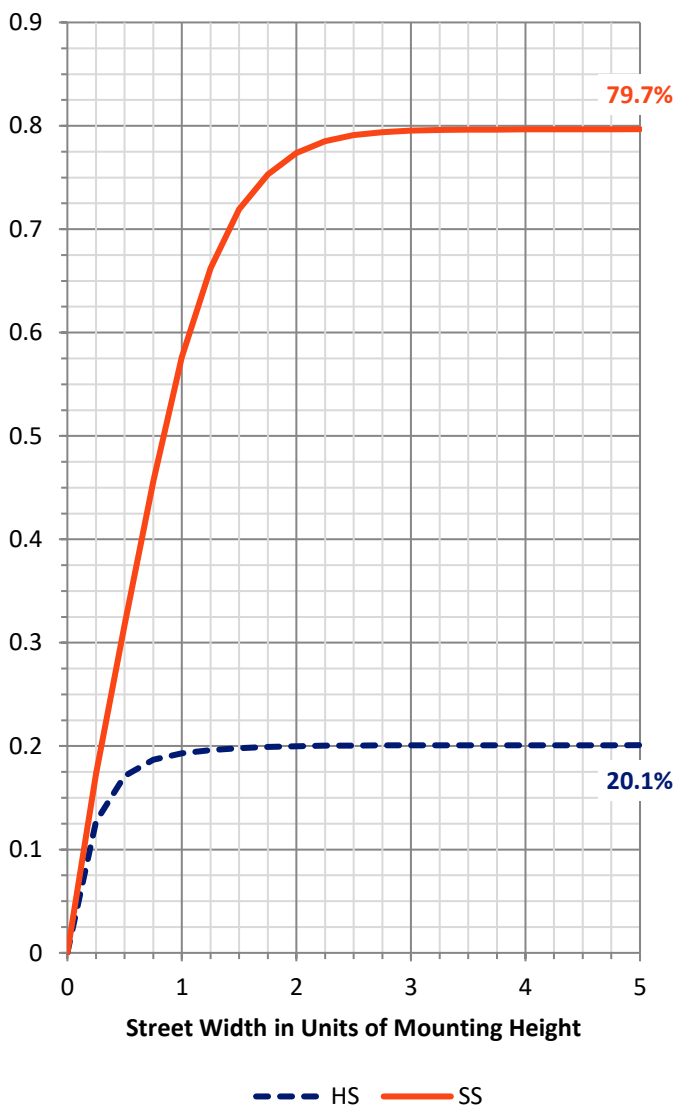
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5084.3	0.0	5084.3
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	19967.5	0.0	19967.5
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	25051.7	0.0	25051.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	926.4	3.7
10°-20°	1827.7	7.3
20°-30°	2781.4	11.1
30°-40°	4157.2	16.6
40°-50°	5920.2	23.6
50°-60°	6364.0	25.4
60°-70°	2820.1	11.3
70°-80°	228.2	0.9
80°-90°	26.6	0.1
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°	25051.7	100.0
0°-180°	25051.7	100.0

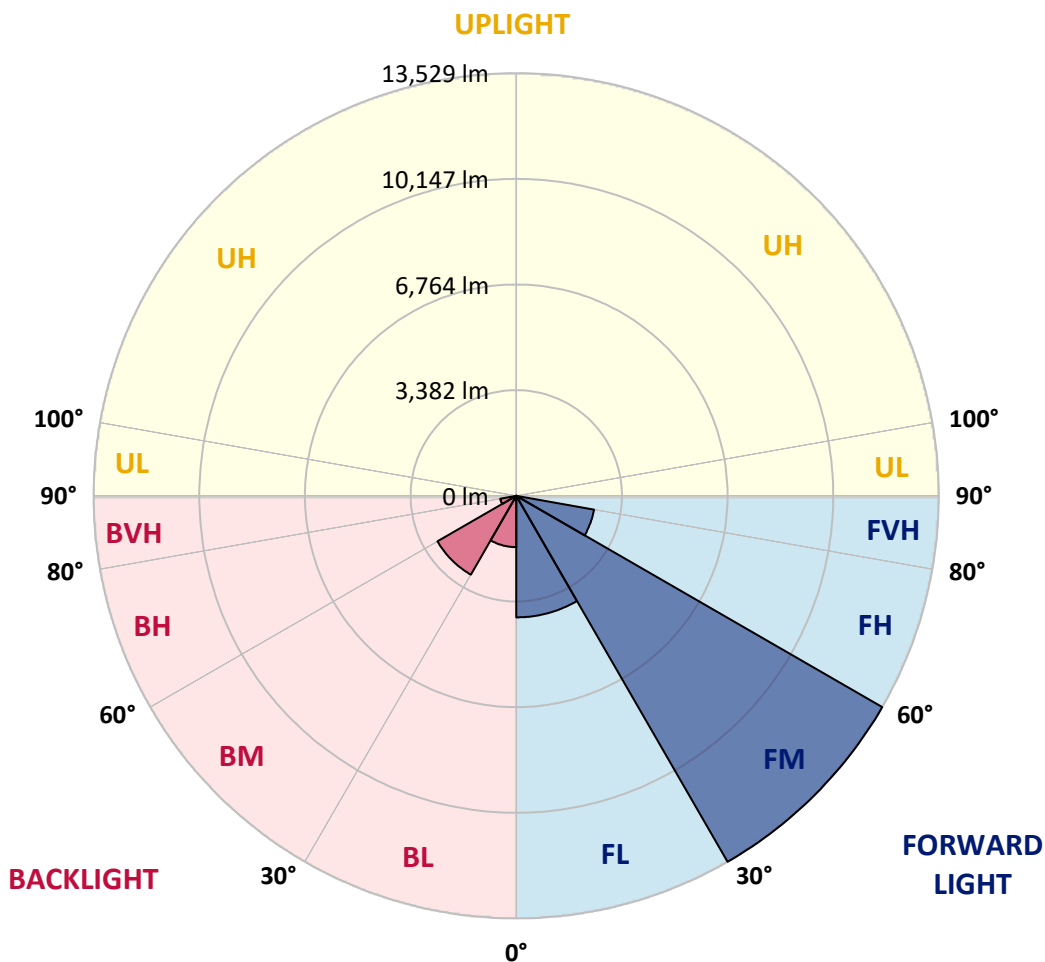


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3891.0	15.5			
FM	(30°-60°)	13528.7	54.0			
FH	(60°-80°)	2528.0	10.1			G2/5000
FVH	(80°-90°)	19.7	0.1			G1/100
BL	(0°-30°)	1644.4	6.6	B3/2500		
BM	(30°-60°)	2912.7	11.6	B3/5000		
BH	(60°-80°)	520.2	2.1	B2/1000		G2/1000
BVH	(80°-90°)	6.9	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-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4
2.5°	13441.5	13480.9	13697.7	13968.7	14111.6	14436.8	14210.1	14269.2	14146.0	13712.4	13372.5
5°	13032.5	13027.6	13303.5	13973.6	14609.2	15254.6	15274.4	14929.5	14323.4	13658.3	12707.3
7.5°	11800.7	11992.8	12278.6	13347.8	14525.4	15008.3	15239.9	14835.8	13904.6	12953.7	11923.9
10°	10869.4	10968.0	11450.9	12741.8	13604.1	14249.6	14392.5	14160.8	13446.4	12258.9	11106.0
12.5°	10332.4	10381.6	10948.3	12032.3	12943.8	13421.8	13490.7	13599.1	13086.7	11973.1	10588.6
15°	10337.3	10376.8	11140.5	12047.1	12406.8	12278.6	12505.2	12500.4	12722.1	11919.0	11022.2
17.5°	11081.4	11125.7	11815.5	12263.9	12106.2	11805.6	11790.8	12017.5	12485.6	12594.0	11677.5
20°	12362.4	12465.9	12973.4	12948.7	12061.9	11455.8	11288.2	11460.7	12549.7	13165.5	12998.0
22.5°	14086.9	14229.8	14584.5	13904.6	12263.9	11219.3	11165.1	11500.2	12973.4	14441.7	14495.9
25°	16087.4	16328.9	16501.3	15629.1	12983.3	11628.3	11372.0	11948.5	13544.9	15826.3	16402.7
27.5°	17412.8	17664.1	17624.7	16378.1	13466.1	11736.7	11519.8	12056.9	14042.6	16156.4	17398.0
30°	18447.5	18600.2	18876.2	16782.2	13949.0	12042.1	11672.6	12515.2	14205.2	16727.9	18600.2
32.5°	19654.7	19758.2	19777.9	17496.6	14692.9	12426.4	12145.6	13086.7	14924.6	17274.8	19664.5
35°	20871.7	21024.5	20704.2	18378.5	15151.2	13140.9	12934.0	14077.1	15501.1	17841.5	20837.2
37.5°	22192.2	22271.0	21532.0	18743.1	15806.5	14303.7	14190.4	15146.2	16501.3	18866.3	22138.0
40°	23300.8	23374.8	22413.9	19191.5	16496.4	15929.7	16220.5	17186.2	17861.2	19531.6	22788.4
42.5°	23916.8	24089.2	22709.6	18945.2	17880.9	17772.5	19063.5	19403.4	19437.9	19718.8	23369.8
45°	24084.3	24005.4	22221.7	19147.2	19093.0	20802.7	21975.4	22423.8	21004.7	20063.7	23517.6
47.5°	23310.7	23414.2	21502.4	18969.8	20684.5	23098.8	24616.4	25449.1	22172.5	19763.1	23153.0
50°	22685.0	22551.9	21270.8	18841.7	21113.1	24182.8	26523.2	26710.5	23246.7	20132.6	22753.9
52.5°	22808.1	22891.9	21640.4	19181.7	21123.0	24246.9	26818.9	26690.7	23281.2	20048.9	22611.0
55°	23069.2	22699.7	21482.7	18432.7	19708.9	22458.3	23803.4	23606.4	21487.6	19157.1	22261.2
57.5°	19906.0	20477.5	19753.2	16456.9	16176.0	16920.1	16895.4	17501.5	16028.3	16486.5	20265.7
60°	16156.4	16254.9	16525.9	14077.1	11194.6	10938.5	10583.6	10199.3	10785.7	14096.8	18432.7
62.5°	14210.1	14091.9	15057.6	12805.8	7903.3	6617.2	6558.1	6794.6	8322.1	13446.4	17289.6
65°	10327.5	10475.2	11175.0	9938.2	5932.4	5050.4	4961.7	5661.4	6735.5	10775.8	13195.1
67.5°	6306.8	6592.6	6656.7	6129.5	4025.5	3197.7	3069.6	3705.3	4863.2	6972.1	7735.8
70°	2912.0	3256.9	3582.1	3345.6	2330.6	1315.6	1241.7	1557.0	2453.8	4010.7	4104.4
72.5°	882.0	886.9	1241.7	1295.9	753.9	295.6	261.1	344.9	832.7	1325.4	1394.4
75°	64.1	69.0	167.5	192.2	142.9	73.9	78.8	93.6	177.4	295.6	221.7
77.5°	5.0	5.0	5.0	24.6	44.3	49.3	64.1	73.9	93.6	108.4	98.6
80°	5.0	0.0	5.0	19.7	34.5	49.3	59.1	69.0	73.9	83.8	73.9
82.5°	0.0	0.0	0.0	14.8	34.5	49.3	54.2	73.9	83.8	98.6	83.8
85°	0.0	0.0	0.0	14.8	34.5	54.2	49.3	24.6	0.0	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°	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4
2.5°	13431.6	13239.4	12800.9	12579.2	12056.9	11983.0	11470.6	11386.8	11214.4	11120.7	10894.1
5°	12288.5	12056.9	11342.5	10741.3	10041.7	9553.8	9179.4	8839.4	8642.4	8460.0	8543.8
7.5°	11357.3	10682.2	9888.9	8883.8	8075.7	7553.4	6981.9	6513.8	6237.9	6050.7	6095.0
10°	10381.6	9943.1	8839.4	7711.1	6735.5	6365.9	5917.6	5557.9	5168.6	4833.6	4676.0
12.5°	10076.2	9425.8	8041.2	6893.2	6154.1	5794.4	5282.0	4868.1	4370.4	3961.4	3818.6
15°	10130.3	9504.6	7824.4	6597.6	5725.4	5104.6	4493.6	3981.2	3434.3	3148.5	3000.7
17.5°	11012.3	9928.3	7967.3	6287.1	5129.3	4267.0	3513.1	2862.7	2453.8	2158.1	2094.1
20°	12096.4	10844.8	8272.8	6060.5	4641.5	3394.9	2567.1	2005.4	1665.4	1616.1	1601.3
22.5°	13682.9	12342.7	8928.1	5907.8	4045.2	2646.0	1759.0	1458.5	1364.9	1355.0	1359.9
25°	15900.1	14220.0	9642.6	5779.6	3596.9	2039.8	1438.8	1236.8	1207.2	1192.4	1217.0
27.5°	16861.0	15353.2	10021.9	5503.7	3187.9	1837.8	1419.0	1226.9	1143.1	1118.4	1133.2
30°	18048.4	16107.1	10618.1	5030.7	2586.8	1512.6	1325.4	1335.3	1295.9	1172.7	1133.2
32.5°	19625.2	17048.2	10918.7	4695.6	2310.9	1251.5	970.7	891.8	995.3	1015.0	1049.5
35°	20635.2	18004.0	11071.4	4498.6	2168.0	1069.2	822.8	748.9	724.3	729.2	748.9
37.5°	22512.5	19295.0	11263.6	4291.6	2059.6	931.2	744.0	675.1	640.5	640.5	660.3
40°	23635.9	20319.9	11524.8	4178.3	1951.2	847.5	675.1	615.9	586.3	586.3	596.2
42.5°	23916.8	20827.4	11436.1	4138.9	1828.0	827.8	615.9	571.5	537.1	532.1	527.2
45°	24419.3	21600.9	11450.9	4094.5	1699.9	753.9	581.4	532.1	482.9	477.9	473.0
47.5°	24971.1	22157.7	11480.4	3922.1	1576.7	630.7	606.0	492.7	433.6	423.8	423.8
50°	24498.2	22601.2	11736.7	3749.6	1419.0	512.4	596.2	463.1	384.3	369.5	374.5
52.5°	24557.3	23123.5	12278.6	3508.1	1222.0	409.0	482.9	438.5	349.9	325.2	330.1
55°	23611.2	22571.6	12352.5	3252.0	955.9	315.4	369.5	384.3	295.6	285.8	285.8
57.5°	20324.8	19112.7	10899.0	2636.0	630.7	261.1	266.1	335.1	256.3	246.3	251.3
60°	17393.1	15343.4	8770.5	1739.3	394.2	207.0	192.2	340.0	226.6	221.7	236.5
62.5°	15855.8	12608.8	6651.7	1079.1	271.0	157.7	133.0	275.9	197.1	197.1	216.8
65°	11455.8	8469.9	3867.8	566.7	192.2	123.2	98.6	157.7	162.6	167.5	177.4
67.5°	7095.2	4276.8	1631.0	275.9	128.1	83.8	64.1	98.6	108.4	108.4	118.2
70°	3503.3	1704.8	542.0	157.7	98.6	69.0	44.3	54.2	54.2	49.3	54.2
72.5°	1084.0	512.4	137.9	98.6	69.0	44.3	24.6	19.7	9.8	0.0	5.0
75°	123.2	98.6	88.7	69.0	44.3	19.7	5.0	0.0	0.0	0.0	0.0
77.5°	73.9	83.8	83.8	69.0	44.3	14.8	0.0	0.0	0.0	0.0	0.0
80°	59.1	64.1	69.0	64.1	39.4	19.7	0.0	0.0	0.0	0.0	0.0
82.5°	73.9	83.8	93.6	83.8	54.2	24.6	9.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	14.8	5.0	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4
2.5°	10800.5	10692.1	10844.8	10618.1	10613.3	10618.1	10554.1	10495.0	10588.6	10839.9	10864.5
5°	8243.2	8474.8	8548.8	8790.1	8657.2	8460.0	8499.5	8366.4	8691.7	8834.5	8721.2
7.5°	6001.4	5986.6	6484.2	6513.8	6577.9	6582.8	6572.9	6311.8	6045.7	6104.8	6282.2
10°	4656.2	4404.9	4646.4	4621.7	4779.4	4735.1	4799.1	4518.3	4611.9	4611.9	4725.2
12.5°	3794.0	3527.9	3483.5	3419.5	3483.5	3508.1	3532.8	3478.6	3636.3	3710.2	3789.0
15°	2897.2	2749.4	2710.0	2586.8	2606.5	2675.5	2734.6	2759.2	2710.0	2823.3	2833.2
17.5°	2103.9	2099.0	2123.6	2118.7	2099.0	2084.3	2079.3	2015.2	1995.5	2005.4	2044.8
20°	1596.4	1635.8	1719.6	1803.4	1847.7	1793.5	1719.6	1611.2	1566.9	1576.7	1581.7
22.5°	1364.9	1424.0	1537.3	1631.0	1675.3	1576.7	1443.7	1350.1	1330.4	1325.4	1320.5
25°	1236.8	1305.7	1389.5	1419.0	1414.1	1355.0	1256.5	1217.0	1207.2	1197.3	1153.0
27.5°	1167.7	1192.4	1207.2	1241.7	1256.5	1217.0	1192.4	1133.2	1123.4	1123.4	1093.8
30°	1128.4	1113.6	1133.2	1108.6	1128.4	1098.8	1103.7	1103.7	1079.1	1088.9	1088.9
32.5°	1049.5	1054.4	1054.4	1005.2	1020.0	985.5	1020.0	1049.5	1054.4	1059.3	1098.8
35°	768.7	857.3	901.7	901.7	916.4	891.8	886.9	852.4	808.0	763.7	744.0
37.5°	675.1	709.6	768.7	803.2	827.8	808.0	763.7	709.6	684.9	665.1	645.5
40°	601.1	630.7	670.1	709.6	758.8	734.2	665.1	640.5	611.0	611.0	591.3
42.5°	542.0	556.7	581.4	640.5	694.8	645.5	596.2	576.5	561.7	556.7	551.9
45°	487.8	492.7	517.4	566.7	630.7	581.4	532.1	507.5	512.4	517.4	512.4
47.5°	438.5	448.3	463.1	522.3	561.7	537.1	482.9	468.1	468.1	468.1	473.0
50°	379.4	404.0	433.6	482.9	512.4	497.6	453.3	433.6	423.8	423.8	428.7
52.5°	340.0	359.7	399.1	458.3	497.6	473.0	428.7	399.1	379.4	374.5	384.3
55°	295.6	330.1	394.2	438.5	492.7	468.1	418.8	384.3	349.9	344.9	344.9
57.5°	266.1	320.3	379.4	433.6	477.9	458.3	418.8	374.5	330.1	325.2	325.2
60°	251.3	310.4	369.5	418.8	477.9	448.3	413.9	364.6	315.4	315.4	310.4
62.5°	236.5	290.7	349.9	399.1	458.3	433.6	399.1	349.9	300.6	300.6	290.7
65°	197.1	251.3	290.7	335.1	399.1	374.5	340.0	305.5	266.1	256.3	261.1
67.5°	137.9	172.5	211.8	256.3	295.6	285.8	271.0	246.3	211.8	207.0	202.0
70°	69.0	93.6	128.1	172.5	207.0	197.1	187.2	167.5	147.8	142.9	142.9
72.5°	9.8	29.6	54.2	78.8	108.4	113.4	108.4	103.4	98.6	93.6	98.6
75°	0.0	0.0	0.0	19.7	44.3	54.2	64.1	73.9	73.9	64.1	78.8
77.5°	0.0	0.0	0.0	0.0	5.0	24.6	49.3	64.1	78.8	69.0	93.6
80°	0.0	0.0	0.0	0.0	5.0	29.6	49.3	69.0	78.8	69.0	98.6
82.5°	0.0	0.0	0.0	0.0	5.0	34.5	49.3	64.1	73.9	69.0	88.7
85°	0.0	0.0	0.0	0.0	14.8	29.6	19.7	9.8	5.0	5.0	14.8
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



REPORT NUMBER: P653494

CATALOG NUMBER: GLAN-SA7D-840-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4	12702.4
2.5°	11002.5	11352.3	11726.8	11869.7	12313.2	12648.2	12874.9	13362.6	13436.6	13441.5
5°	8839.4	9016.8	9657.4	9957.9	10618.1	11130.6	11677.5	12465.9	12993.1	13032.5
7.5°	6282.2	6774.9	7045.9	7829.4	8642.4	9445.5	10258.5	11175.0	11785.9	11800.7
10°	5055.3	5375.6	5858.5	6444.8	7129.7	7947.6	9031.6	10095.9	10716.7	10869.4
12.5°	4069.9	4631.6	5183.4	5789.5	6311.8	6927.7	8095.5	9514.5	10026.9	10332.4
15°	3133.7	3646.2	4296.5	5006.1	5597.4	6420.2	7750.5	9371.6	10233.9	10337.3
17.5°	2310.9	2769.1	3370.2	4040.3	4927.3	6095.0	7809.6	10095.9	10908.9	11081.4
20°	1660.5	1926.6	2399.5	3178.1	4306.4	5715.6	7868.8	10830.1	12066.8	12362.4
22.5°	1315.6	1424.0	1734.4	2424.2	3611.7	5316.5	8287.6	12234.3	13658.3	14086.9
25°	1143.1	1202.2	1350.1	1911.8	3173.1	5277.0	8957.7	13919.4	15777.0	16087.4
27.5°	1103.7	1113.6	1241.7	1754.1	2936.6	5015.9	9213.9	15116.7	17097.4	17412.8
30°	1162.9	1320.5	1330.4	1483.1	2498.1	4498.6	9347.0	16274.6	18216.0	18447.5
32.5°	1005.2	955.9	990.4	1148.0	2197.5	4198.0	9598.2	17284.7	19492.1	19654.7
35°	699.6	734.2	813.0	995.3	1921.6	3882.6	9662.2	18398.2	20704.2	20871.7
37.5°	645.5	665.1	729.2	847.5	1690.1	3705.3	9573.6	19211.2	21960.6	22192.2
40°	601.1	625.8	660.3	768.7	1517.6	3508.1	9450.4	19945.4	22729.3	23300.8
42.5°	566.7	586.3	615.9	734.2	1369.7	3311.1	9278.0	20980.1	23419.1	23916.8
45°	527.2	556.7	591.3	714.4	1286.0	3178.1	9149.8	20916.1	23818.2	24084.3
47.5°	487.8	537.1	576.5	665.1	1261.3	3114.0	9204.1	20674.6	23493.0	23310.7
50°	448.3	512.4	581.4	551.9	1202.2	2985.9	9268.1	21004.7	22719.4	22685.0
52.5°	413.9	487.8	542.0	453.3	1069.2	2862.7	9888.9	21438.4	23266.3	22808.1
55°	364.6	438.5	433.6	364.6	867.2	2769.1	10376.8	21448.2	22896.8	23069.2
57.5°	330.1	389.2	340.0	305.5	640.5	2315.8	9583.4	17984.4	19600.5	19906.0
60°	305.5	379.4	256.3	241.5	418.8	1670.3	8366.4	13929.2	15579.9	16156.4
62.5°	280.8	359.7	202.0	197.1	290.7	1187.5	6878.4	11657.8	13426.6	14210.1
65°	246.3	256.3	162.6	152.7	207.0	640.5	4188.2	8026.4	10036.7	10327.5
67.5°	202.0	197.1	133.0	123.2	137.9	310.4	1847.7	4020.7	5819.0	6306.8
70°	162.6	162.6	113.4	98.6	98.6	142.9	482.9	1601.3	2631.2	2912.0
72.5°	118.2	123.2	88.7	78.8	73.9	69.0	78.8	320.3	689.8	882.0
75°	103.4	108.4	88.7	69.0	54.2	44.3	34.5	29.6	39.4	64.1
77.5°	113.4	113.4	93.6	64.1	49.3	34.5	19.7	9.8	9.8	5.0
80°	142.9	147.8	123.2	83.8	59.1	39.4	24.6	9.8	5.0	5.0
82.5°	152.7	167.5	137.9	103.4	73.9	44.3	24.6	5.0	0.0	0.0
85°	39.4	64.1	108.4	93.6	73.9	44.3	24.6	5.0	0.0	0.0
87.5°	0.0	5.0	14.8	14.8	19.7	19.7	14.8	5.0	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)