

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: P654596

Luminaire Tested: **GLAN-SA9B-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9B-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31155.7 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

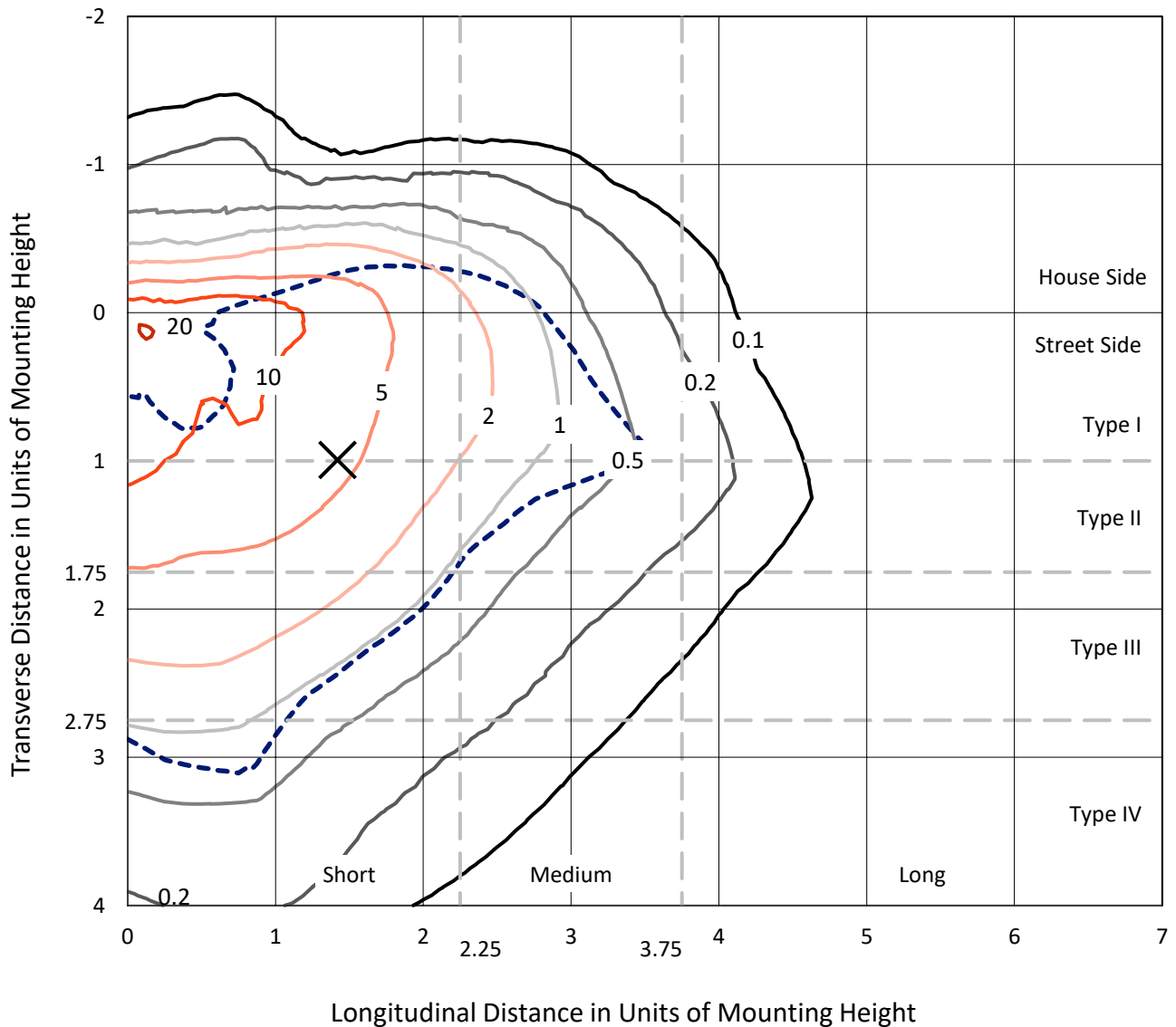
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

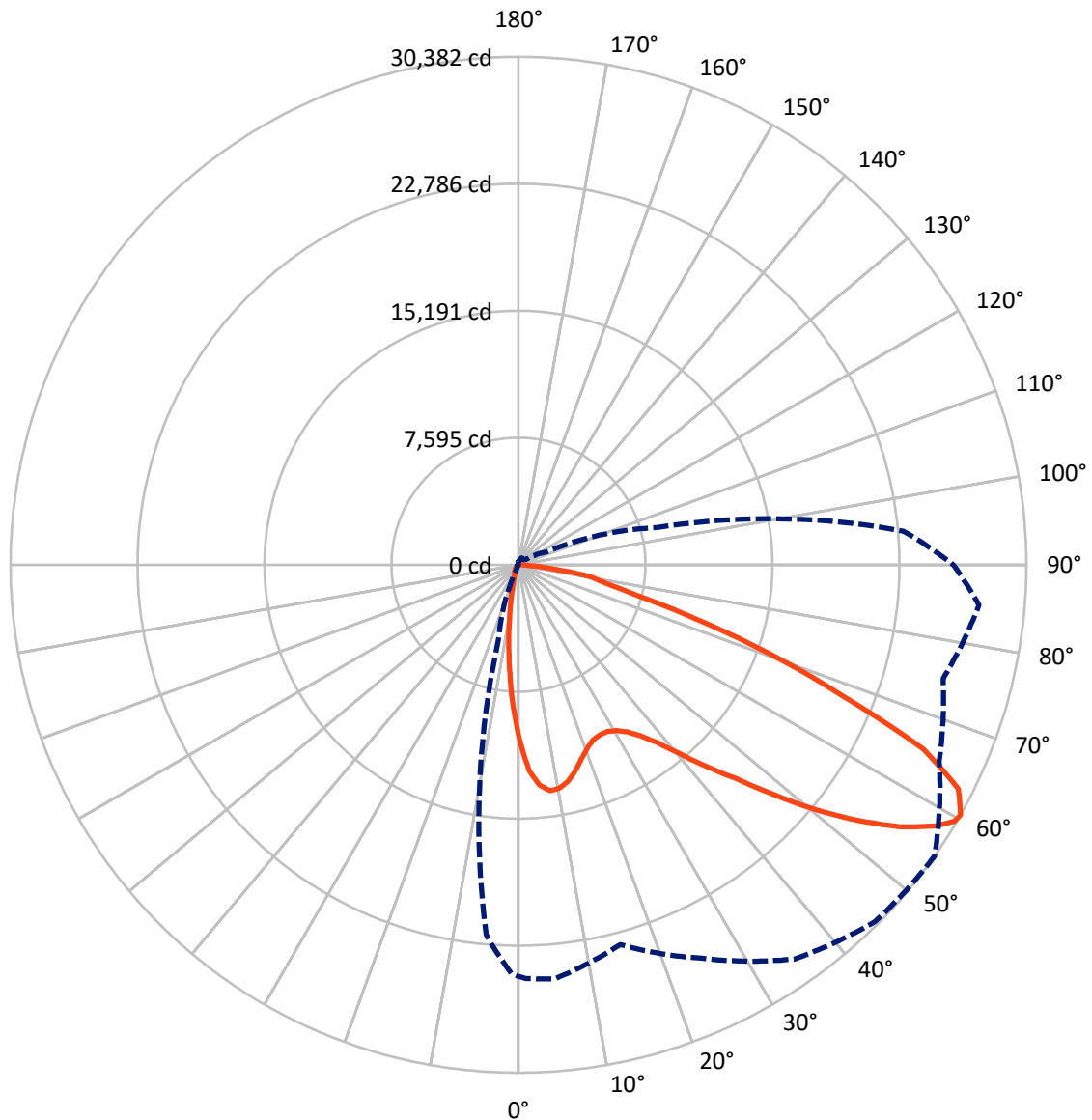
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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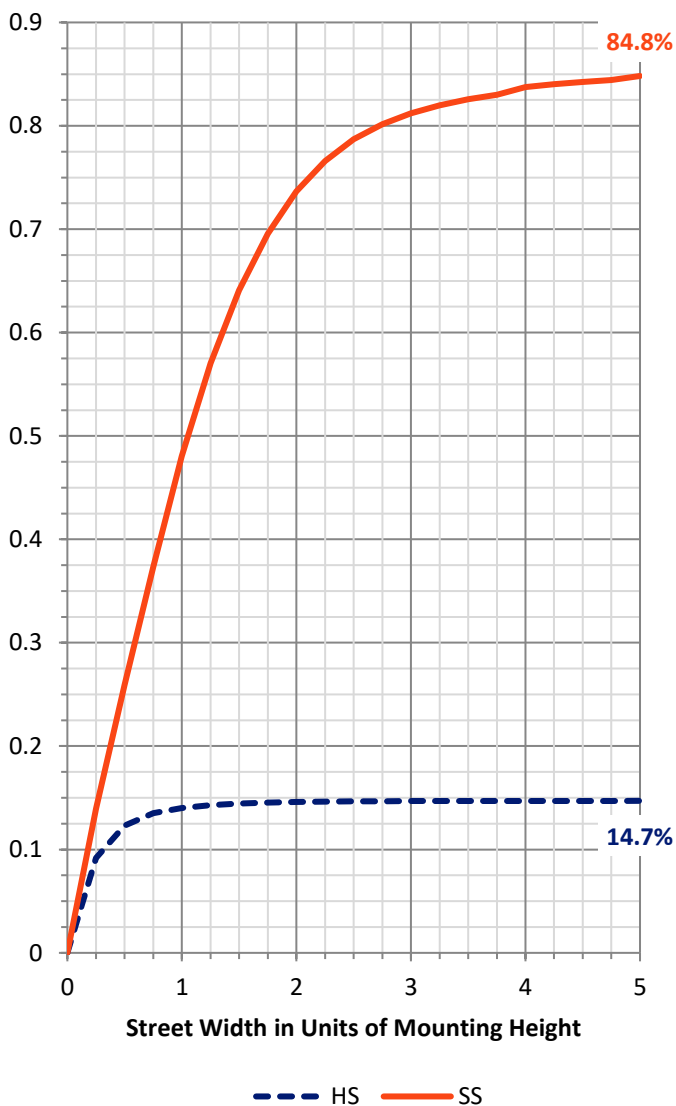
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4623.8	0.0	4623.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	26531.9	0.0	26531.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	31155.7	0.0	31155.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.2	2.5
10°-20°	1538.3	4.9
20°-30°	2277.0	7.3
30°-40°	3394.1	10.9
40°-50°	4970.7	16.0
50°-60°	7176.2	23.0
60°-70°	7549.0	24.2
70°-80°	3105.4	10.0
80°-90°	363.7	1.2
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°	31155.7	100.0
0°-180°	31155.7	100.0

Coefficient of Utilization

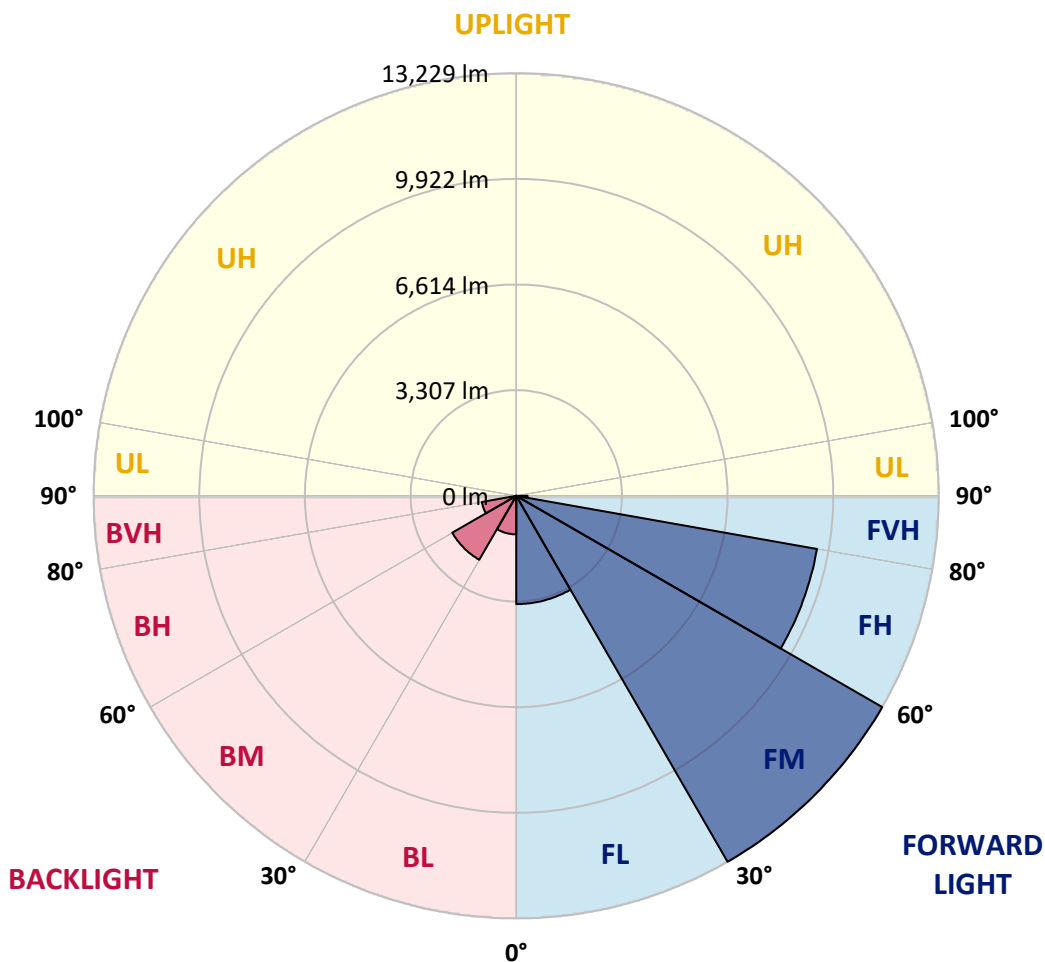


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3390.2	10.9			
FM (30°-60°)	13228.7	42.5			
FH (60°-80°)	9560.0	30.7			G4/12000
FVH (80°-90°)	353.0	1.1			G3/500
BL (0°-30°)	1206.4	3.9	B3/2500		
BM (30°-60°)	2312.3	7.4	B2/2500		
BH (60°-80°)	1094.4	3.5	B3/2500		G3/2500
BVH (80°-90°)	10.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3
2.5°	11525.2	11506.1	11676.4	11954.5	12235.1	12381.4	12352.6	12340.6	12108.0	11937.7	11580.4
5°	11501.3	11599.6	11904.2	12657.1	13227.9	13503.7	13585.3	13242.3	12789.1	12132.0	11321.5
7.5°	10813.0	10935.4	11431.7	12609.2	13623.6	14223.1	14201.5	13652.4	12717.1	11700.3	10544.5
10°	9959.3	10103.2	10685.9	12115.2	13431.8	14223.1	14266.3	13570.8	12407.8	11103.2	9887.4
12.5°	9357.4	9527.6	10172.7	11654.7	12937.8	13717.1	13767.5	13263.9	12175.2	10873.0	9530.0
15°	9153.5	9314.2	9968.9	11422.1	12412.6	12832.2	12820.2	12767.5	12084.0	10928.1	9549.2
17.5°	9503.6	9635.6	10374.2	11527.7	11920.9	11877.8	11940.1	12194.3	12103.2	11390.9	10153.6
20°	10407.7	10542.0	11335.8	11851.4	11544.4	11271.1	11299.8	11724.3	12280.6	12261.4	11098.4
22.5°	11652.4	11880.1	12599.6	12479.7	11494.1	10894.6	10834.6	11386.1	12582.8	13263.9	12374.2
25°	13227.9	13458.1	14019.3	13482.1	11741.1	10805.8	10750.7	11283.0	12949.7	14242.3	13810.6
27.5°	14551.7	14726.8	15285.5	14458.1	12105.6	10844.2	10753.0	11297.4	13247.1	15074.4	15021.7
30°	15611.7	15741.1	16069.7	14913.8	12419.7	11012.1	10906.5	11508.5	13379.0	15479.7	16002.5
32.5°	16465.4	16683.6	16786.7	15400.6	12870.6	11328.6	11148.7	11913.8	13700.3	15980.9	17031.3
35°	17441.3	17693.1	17561.3	15865.8	13465.3	11822.6	11602.0	12570.8	14187.2	16443.7	18225.6
37.5°	18678.8	18968.9	18453.4	16355.0	14093.6	12566.1	12462.9	13494.1	14925.7	17105.6	19506.2
40°	19959.4	20127.2	19319.0	16949.8	14865.8	13647.6	13745.9	14865.8	15892.2	17899.4	20868.2
42.5°	20959.4	21117.7	20208.7	17448.6	15654.8	14930.5	15340.6	16520.5	17000.1	18712.3	21885.0
45°	21724.4	21858.7	20825.1	17992.9	16719.5	16789.1	17563.7	18225.6	18110.4	19208.8	22669.2
47.5°	22319.1	22434.2	21299.9	18578.0	18314.3	19062.4	20247.2	20527.7	19261.5	19745.9	23379.0
50°	22563.7	22597.2	21448.6	19323.8	20124.8	21959.4	23194.4	23024.1	20580.4	20343.0	24134.4
52.5°	22882.6	22875.5	21873.1	20033.7	21827.5	24549.3	25781.9	25395.8	22072.0	21237.5	24983.3
55°	23719.6	23729.2	22781.9	21040.9	23278.3	26640.4	27959.4	27678.8	23645.2	22748.4	25973.8
57.5°	24736.3	24772.3	24074.5	22218.4	24664.4	28156.1	29585.3	29477.4	25772.4	24429.5	26909.1
59°	24868.3	24940.2	24686.0	23048.1	25487.0	28621.2	30141.7	30247.2	26911.4	25537.3	27415.1
60°	24628.4	24748.4	24863.5	23518.1	25969.0	28789.2	30175.2	30381.5	27767.5	26290.3	27645.3
62.5°	23582.9	23772.3	24350.3	24964.2	26570.9	28266.3	29103.3	29535.0	28827.5	28268.8	27666.9
65°	22213.6	22311.9	23146.4	25220.7	25403.1	25825.1	26084.1	26638.1	27554.1	29031.4	26676.4
67.5°	19969.0	20259.1	21280.7	23731.6	21957.0	21458.2	21393.4	20841.8	23220.8	27213.6	24235.2
70°	16496.6	16626.0	17885.0	19455.8	16570.8	15803.5	16110.4	15904.2	18000.1	23427.0	19506.2
72.5°	12474.9	12767.5	13997.7	15508.5	11275.9	10280.6	11127.2	11050.4	13520.5	18827.5	13400.6
75°	8875.3	9064.8	10633.2	12136.8	7896.9	6690.7	6995.3	7280.6	9438.9	14865.8	7918.5
77.5°	6098.3	6261.4	7438.9	8026.4	5760.3	5518.1	5048.0	5323.8	6184.7	8820.2	4309.4
80°	3678.7	3671.5	4446.0	4589.9	4012.0	4659.5	3908.9	4388.5	3738.7	3774.6	1669.0
82.5°	2388.5	2364.6	2719.5	2964.0	2232.6	2347.7	1575.5	2271.0	2436.5	1052.8	527.6
85°	1069.6	1115.1	1307.0	1724.2	978.4	520.4	321.3	697.9	1038.4	530.0	0.0
87.5°	110.3	86.4	230.2	419.7	134.3	14.4	47.9	24.0	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°	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3
2.5°	11415.0	11275.9	10861.0	10472.5	10139.2	9731.5	9467.7	9052.8	8801.0	8724.3	8736.3
5°	10956.9	10556.4	9767.5	9136.7	8434.1	8033.7	7424.5	6839.3	6522.8	6405.3	6352.6
7.5°	9997.6	9568.4	8616.4	7625.9	6872.9	6170.3	5717.0	5201.5	4849.0	4558.8	4508.4
10°	9285.4	8721.8	7542.0	6477.3	5882.5	5355.0	4901.7	4386.2	3971.3	3640.4	3549.2
12.5°	8858.6	8227.8	6911.3	6019.2	5455.7	4913.7	4323.7	3726.6	3302.2	2944.8	2779.4
15°	8781.8	8050.4	6733.9	5690.7	4995.2	4340.6	3556.3	2911.3	2474.8	2136.7	2033.6
17.5°	9244.7	8369.4	6707.5	5347.8	4393.3	3465.3	2649.9	2115.1	1623.6	1434.1	1359.7
20°	10069.6	8932.9	6705.0	4949.7	3774.6	2669.1	1861.0	1378.9	1179.8	1088.8	1045.5
22.5°	11194.3	9700.3	6832.2	4606.7	3131.9	1968.9	1328.5	1098.3	983.2	908.9	892.1
25°	12568.4	10837.0	7144.0	4374.1	2640.3	1544.4	1095.9	940.1	844.1	810.6	796.2
27.5°	13789.0	11925.7	7486.8	4134.4	2287.8	1366.9	1016.8	860.9	784.1	757.8	736.2
30°	14841.8	12913.7	7652.3	3817.8	2004.8	1251.8	1031.2	920.9	820.1	741.0	705.0
32.5°	15719.6	13671.5	7760.2	3530.0	1765.0	1024.0	815.3	712.2	666.7	637.9	613.9
35°	16817.8	14491.7	7695.5	3366.9	1642.7	932.8	743.4	613.9	537.1	479.6	455.7
37.5°	17969.0	15311.8	7582.8	3232.6	1587.6	865.7	707.4	582.7	498.8	438.8	407.7
40°	19160.8	16072.0	7450.9	3107.9	1537.2	822.6	685.8	556.3	472.4	407.7	374.1
42.5°	20252.0	16813.0	7398.1	3026.4	1455.7	829.7	669.1	544.4	446.1	378.9	350.1
45°	21134.4	17515.7	7470.1	2983.2	1366.9	817.8	673.9	530.0	424.5	359.7	330.9
47.5°	22076.9	18508.5	7702.7	2940.1	1280.6	760.2	709.8	527.6	414.9	347.8	316.6
50°	23172.8	19779.5	8235.1	2834.6	1175.0	697.9	755.4	525.2	402.8	333.4	302.2
52.5°	24633.2	21223.1	8784.2	2649.9	1021.6	637.9	721.8	518.0	378.9	316.6	285.4
55°	25945.0	22743.6	9249.5	2431.7	827.4	551.5	649.9	486.9	338.2	287.8	259.0
57.5°	26487.0	23602.1	9235.1	2129.5	661.9	484.4	534.8	446.1	294.9	254.2	230.2
59°	26288.0	23494.2	8925.7	1906.5	604.3	448.4	443.6	441.3	275.8	230.2	211.0
60°	26007.3	23100.8	8592.4	1796.2	568.3	424.5	407.7	436.5	259.0	215.8	196.6
62.5°	24933.0	21470.1	7486.8	1609.1	520.4	359.7	326.1	369.3	230.2	187.0	170.3
65°	23376.7	18964.1	6338.2	1556.4	506.0	297.4	271.0	263.8	196.6	158.3	143.9
67.5°	20340.7	16048.0	5134.3	1520.4	510.8	249.4	237.4	199.1	163.1	131.9	122.3
70°	16285.5	12513.2	4203.8	1479.7	515.6	203.9	199.1	158.3	131.9	110.3	100.8
72.5°	9894.5	7417.3	3309.3	1285.4	501.2	163.1	177.5	119.9	96.0	79.1	74.3
75°	6117.5	5076.8	2052.8	1000.0	330.9	119.9	124.7	74.3	64.8	50.4	50.4
77.5°	3544.4	3206.2	733.9	359.7	146.2	71.9	55.2	38.3	36.0	21.6	21.6
80°	1470.1	1177.5	254.2	122.3	79.1	33.6	12.0	2.4	0.0	0.0	0.0
82.5°	429.2	381.3	69.6	55.2	24.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3
2.5°	8532.4	8453.3	8417.3	8539.6	8426.9	8570.8	8460.5	8508.5	8649.9	8712.3	8873.0
5°	6386.1	6304.6	6266.2	6450.9	6441.3	6532.4	6522.8	6606.7	6678.7	6518.0	6683.5
7.5°	4448.5	4393.3	4484.5	4628.4	4781.8	4731.5	4731.5	4618.8	4657.1	4633.2	4625.9
10°	3383.7	3194.3	3146.3	3141.5	3199.1	3211.0	3146.3	2990.4	3048.0	3064.8	3165.5
12.5°	2661.8	2515.6	2292.6	2191.9	2165.5	2187.1	1973.7	1836.9	1901.7	1863.3	1961.6
15°	1908.9	1789.0	1657.1	1544.4	1513.2	1470.1	1237.4	1074.4	1055.2	1062.4	1079.2
17.5°	1362.1	1280.6	1280.6	1160.7	1095.9	966.4	848.9	777.0	769.8	777.0	788.9
20°	1004.8	961.6	956.8	925.7	853.7	767.4	685.8	671.5	666.7	678.7	683.5
22.5°	865.7	820.1	781.8	779.4	712.2	640.3	601.9	582.7	585.2	590.0	601.9
25°	774.6	726.6	685.8	661.9	613.9	563.6	527.6	518.0	518.0	525.2	527.6
27.5°	709.8	649.9	613.9	580.4	537.1	494.0	462.8	455.7	450.9	455.7	467.6
30°	664.3	604.3	558.8	508.4	474.8	434.0	407.7	398.0	395.7	398.0	407.7
32.5°	568.3	532.4	496.4	450.9	410.1	383.7	354.9	338.2	338.2	343.0	352.5
35°	429.2	410.1	407.7	395.7	362.1	333.4	299.7	283.0	283.0	292.6	297.4
37.5°	378.9	343.0	338.2	333.4	318.9	280.6	249.4	235.0	232.6	239.8	249.4
40°	345.3	304.5	283.0	278.2	280.6	237.4	203.9	189.5	189.5	191.8	201.4
42.5°	318.9	271.0	232.6	227.8	237.4	199.1	165.5	151.0	151.0	151.0	163.1
45°	297.4	242.2	196.6	172.7	187.0	163.1	134.3	119.9	115.1	119.9	124.7
47.5°	283.0	220.6	172.7	139.1	139.1	129.5	107.9	91.2	86.4	88.7	96.0
50°	271.0	201.4	146.2	112.7	100.8	103.1	81.6	69.6	64.8	64.8	71.9
52.5°	251.8	182.2	127.1	96.0	76.7	69.6	60.0	50.4	47.9	50.4	55.2
55°	227.8	165.5	110.3	79.1	60.0	47.9	43.1	36.0	33.6	36.0	43.1
57.5°	201.4	139.1	88.7	62.3	40.8	31.2	28.8	24.0	19.2	21.6	26.4
59°	184.7	124.7	76.7	50.4	31.2	21.6	21.6	16.8	12.0	14.4	21.6
60°	177.5	115.1	64.8	43.1	26.4	16.8	16.8	12.0	7.2	9.6	16.8
62.5°	151.0	96.0	50.4	26.4	12.0	2.4	7.2	2.4	0.0	2.4	7.2
65°	127.1	76.7	33.6	12.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
67.5°	105.5	57.5	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	83.9	38.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	57.5	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	36.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P654596

CATALOG NUMBER: GLAN-SA9B-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3
2.5°	8882.6	9225.5	9436.5	9834.6	10242.3	10556.4	10949.7	11302.2	11448.5	11525.2
5°	6851.4	7328.6	7733.8	8340.6	8904.2	9590.0	10285.4	11105.6	11419.8	11501.3
7.5°	4808.2	5295.0	5719.5	6422.1	7225.5	8143.9	9184.7	10225.5	10683.6	10813.0
10°	3472.4	3992.8	4510.8	5213.4	5964.0	6959.3	8043.2	9331.0	9858.5	9959.3
12.5°	2191.9	2750.7	3592.3	4460.5	5254.2	6055.2	7189.5	8590.0	9172.7	9357.4
15°	1271.0	1688.2	2323.8	3455.7	4465.3	5525.2	6762.6	8311.8	8964.1	9153.5
17.5°	851.3	995.2	1431.6	2297.4	3630.7	5036.0	6654.7	8539.6	9261.4	9503.6
20°	717.0	781.8	935.3	1400.5	2796.2	4599.5	6683.5	9158.3	10105.5	10407.7
22.5°	630.7	690.6	788.9	1007.2	1952.0	4057.6	6820.2	10043.2	11266.3	11652.4
25°	556.3	616.3	702.7	834.5	1311.8	3431.7	7120.0	11338.2	12803.5	13227.9
27.5°	494.0	549.2	623.5	736.2	1009.6	2733.8	7386.2	12599.6	14206.3	14551.7
30°	436.5	482.0	554.0	640.3	839.3	2108.0	7520.5	13702.7	15227.9	15611.7
32.5°	378.9	422.1	491.6	561.1	690.6	1606.7	7426.9	14513.3	16220.7	16465.4
35°	323.8	369.3	426.9	491.6	597.1	1297.4	6959.3	15424.5	17249.5	17441.3
37.5°	278.2	316.6	376.5	426.9	539.6	1038.4	6393.4	16244.7	18403.0	18678.8
40°	235.0	273.4	333.4	378.9	496.4	817.8	5882.5	17156.0	19618.8	19959.4
42.5°	191.8	237.4	290.1	364.5	426.9	623.5	5263.8	17894.6	20532.5	20959.4
45°	153.5	203.9	261.4	362.1	371.7	474.8	4666.7	18470.1	21340.6	21724.4
47.5°	122.3	172.7	251.8	338.2	304.5	376.5	4326.2	19072.0	22012.2	22319.1
50°	98.3	143.9	263.8	297.4	254.2	318.9	4316.6	19743.6	22359.8	22563.7
52.5°	79.1	117.5	223.0	227.8	215.8	280.6	4575.5	20499.0	22714.7	22882.6
55°	67.1	98.3	146.2	167.9	194.3	254.2	4769.8	21662.0	23561.3	23719.6
57.5°	52.7	83.9	112.7	134.3	172.7	232.6	4796.2	22558.9	24633.2	24736.3
59°	45.6	71.9	100.8	119.9	158.3	218.2	4688.2	22614.1	24702.8	24868.3
60°	38.3	64.8	88.7	112.7	146.2	206.2	4570.8	22213.6	24443.8	24628.4
62.5°	28.8	50.4	64.8	91.2	119.9	177.5	4014.4	20815.5	23453.4	23582.9
65°	19.2	36.0	47.9	67.1	93.5	153.5	3271.0	19002.6	21923.4	22213.6
67.5°	12.0	26.4	38.3	50.4	76.7	129.5	2330.9	16295.0	19781.9	19969.0
70°	7.2	16.8	28.8	40.8	60.0	103.1	1383.7	12880.2	16458.1	16496.6
72.5°	4.8	12.0	19.2	28.8	47.9	93.5	671.5	8395.7	12016.9	12474.9
75°	2.4	7.2	12.0	21.6	38.3	76.7	321.3	5609.1	8743.5	8875.3
77.5°	0.0	2.4	7.2	14.4	28.8	60.0	187.0	3683.5	5961.7	6098.3
80°	0.0	0.0	4.8	12.0	21.6	38.3	112.7	2172.6	3611.5	3678.7
82.5°	0.0	0.0	2.4	9.6	14.4	28.8	57.5	954.5	2364.6	2388.5
85°	0.0	0.0	2.4	9.6	12.0	19.2	21.6	129.5	1050.3	1069.6
87.5°	0.0	0.0	2.4	12.0	12.0	12.0	12.0	7.2	88.7	110.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)