

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: P649812

Luminaire Tested: **GLAN-SA3A-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3A-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9214.3 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

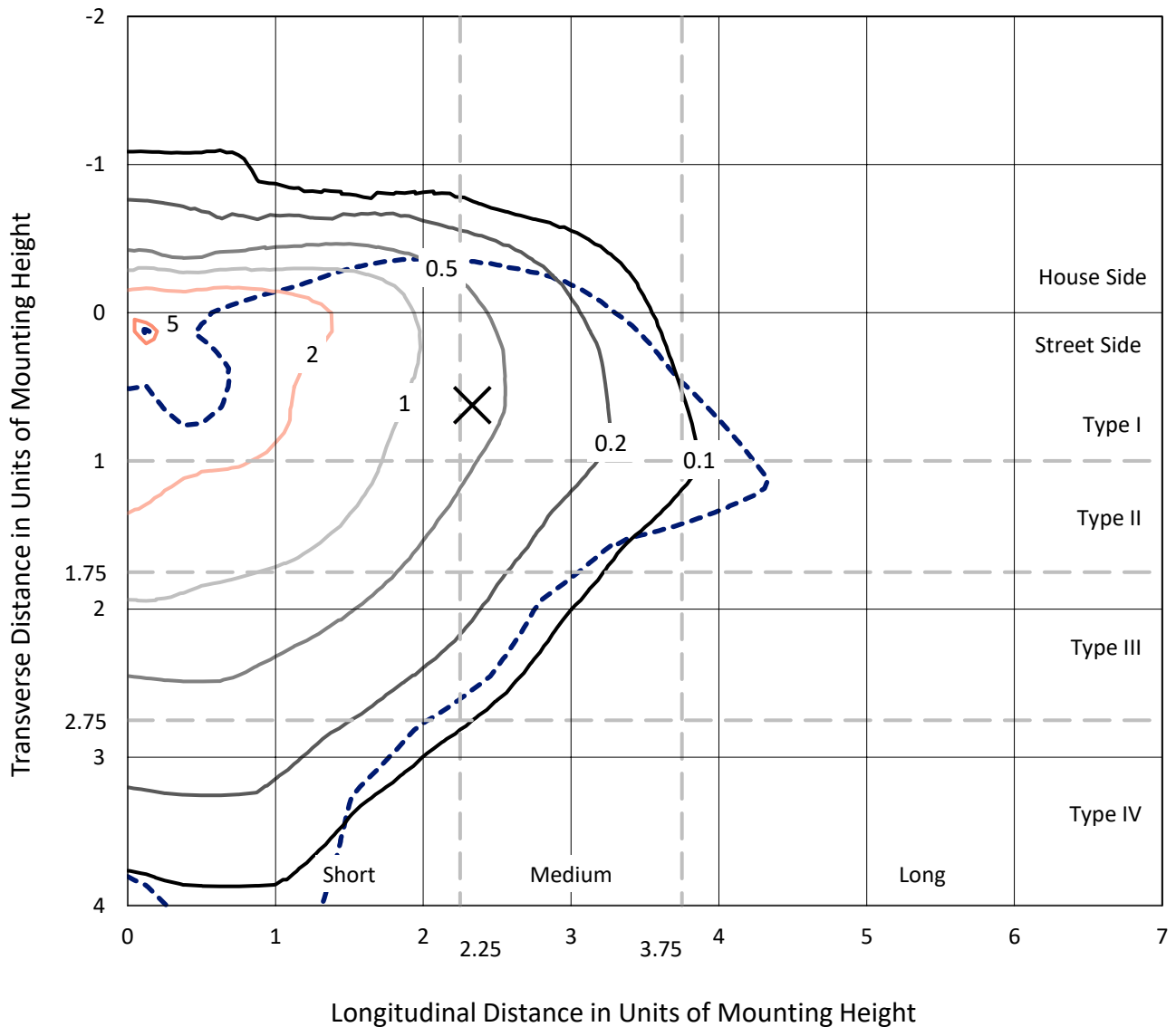
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

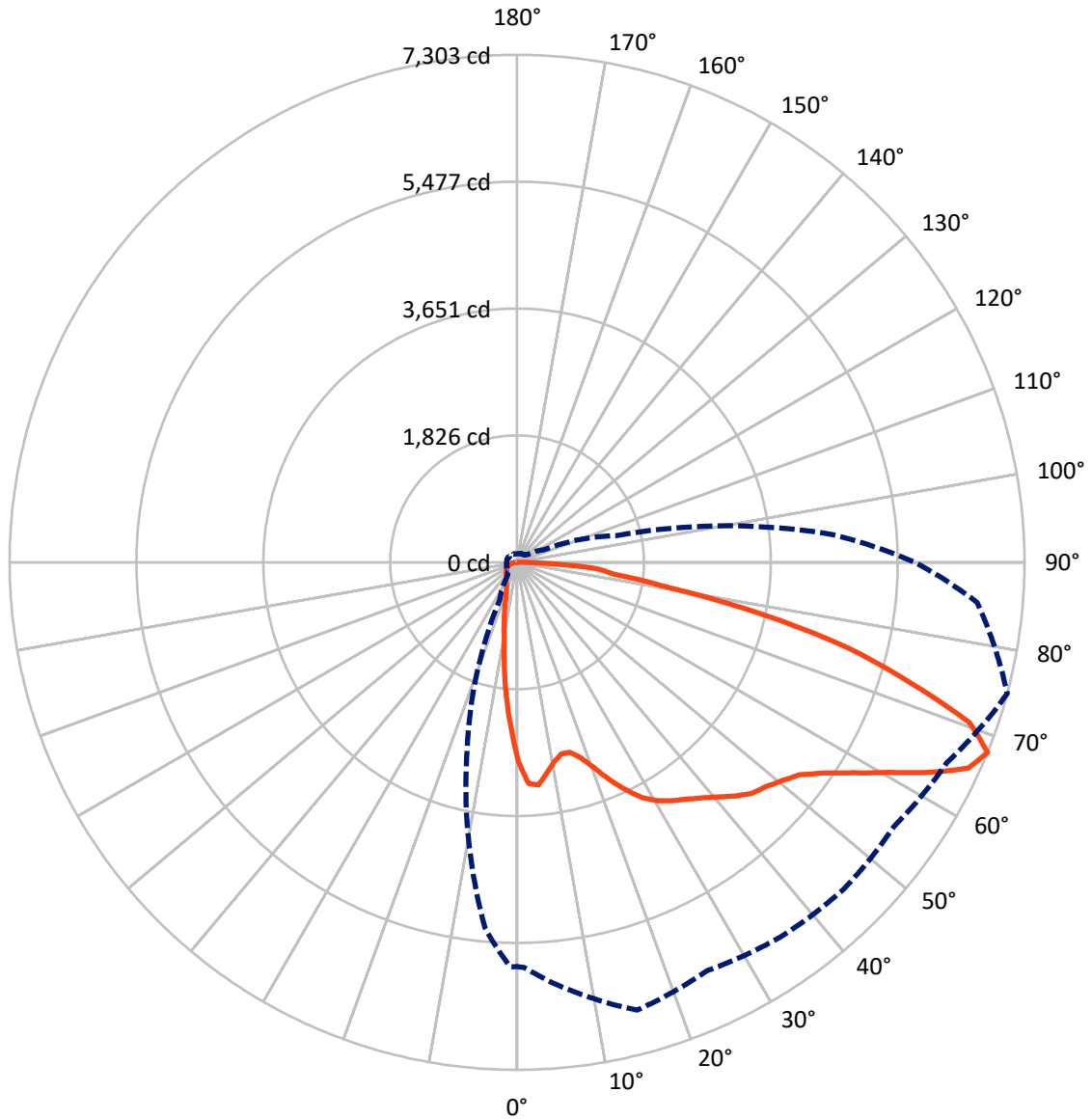
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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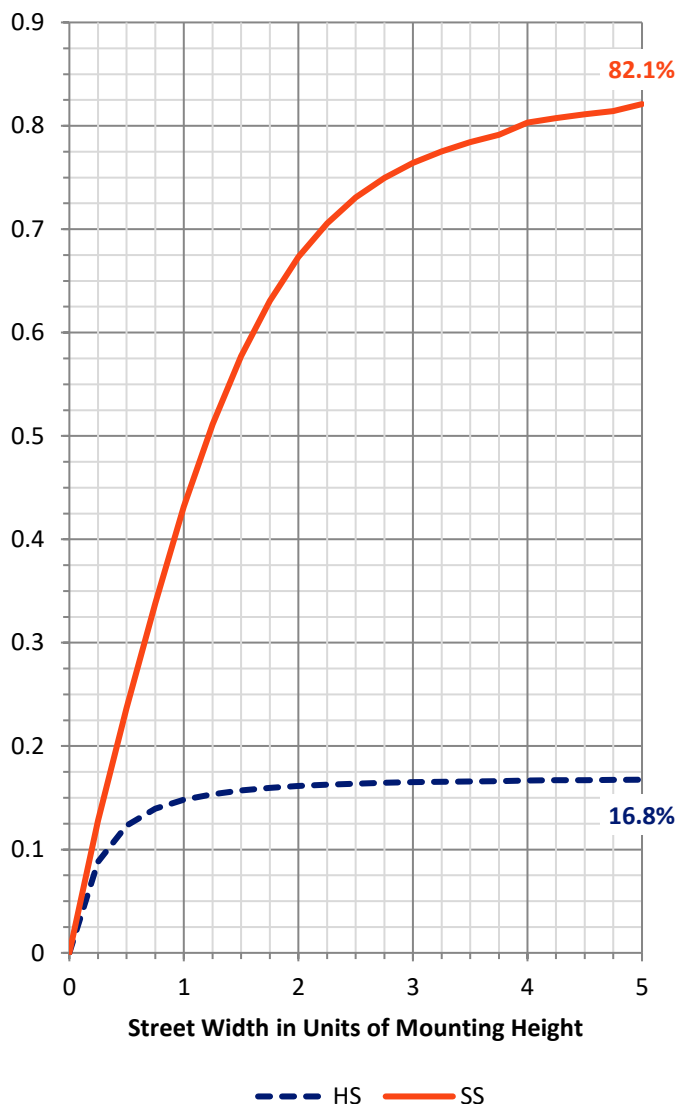
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1557.4	0.0	1557.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	7656.9	0.0	7656.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	9214.3	0.0	9214.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	2.4
10°-20°	455.4	4.9
20°-30°	655.3	7.1
30°-40°	943.8	10.2
40°-50°	1325.8	14.4
50°-60°	1849.0	20.1
60°-70°	2198.3	23.9
70°-80°	1294.7	14.1
80°-90°	273.8	3.0
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°	9214.3	100.0
0°-180°	9214.3	100.0

Coefficient of Utilization

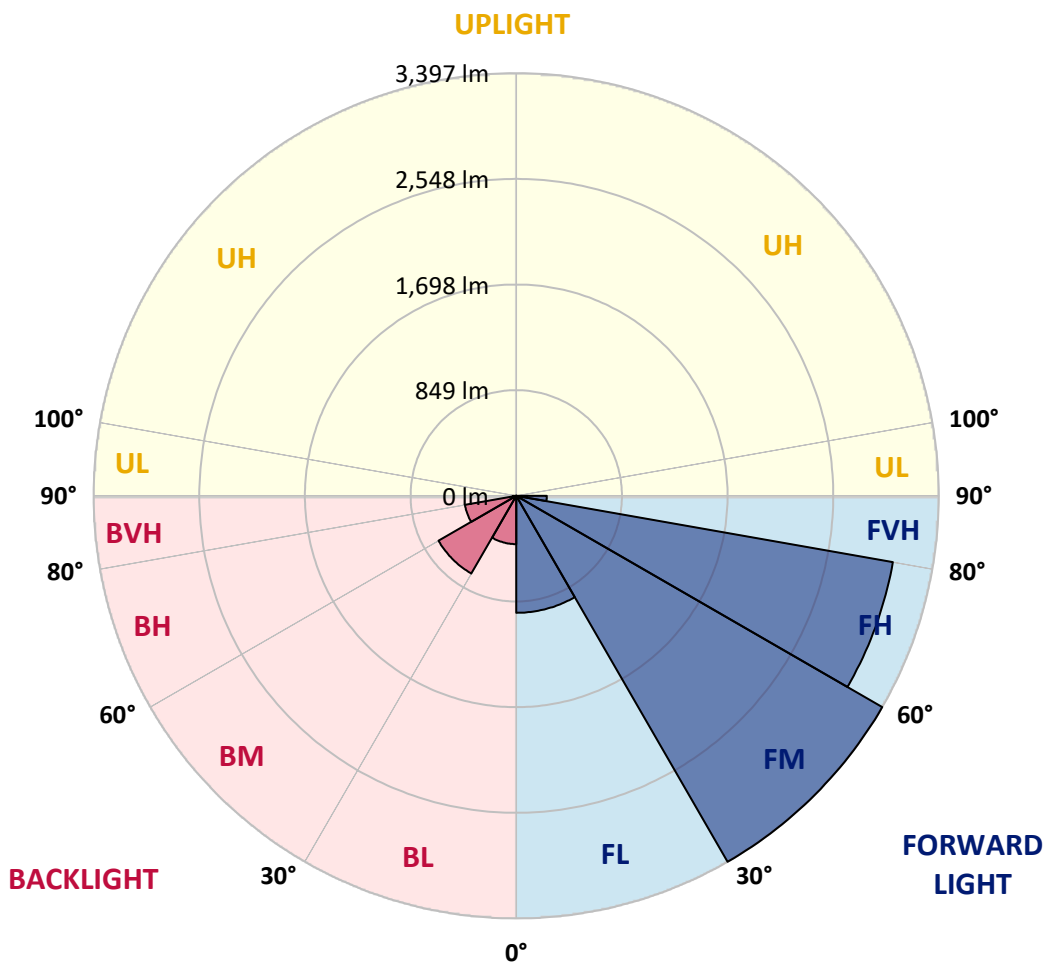


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	940.5	10.2			
FM (30°-60°)	3397.0	36.9			
FH (60°-80°)	3073.9	33.4			G2/5000
FVH (80°-90°)	245.5	2.7			G3/500
BL (0°-30°)	388.5	4.2	B1/500		
BM (30°-60°)	721.6	7.8	B1/1000		
BH (60°-80°)	419.1	4.5	B1/500		G1/500
BVH (80°-90°)	28.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8
2.5°	3103.9	3108.0	3134.7	3212.0	3265.2	3284.7	3298.3	3272.9	3248.1	3187.8	3096.8
5°	3094.4	3118.7	3187.8	3361.5	3498.6	3557.7	3575.4	3499.2	3373.3	3218.5	3032.4
7.5°	2913.6	2946.1	3052.5	3343.8	3585.5	3723.7	3705.4	3567.7	3340.8	3064.9	2804.9
10°	2699.2	2735.2	2863.4	3215.5	3526.9	3717.2	3717.2	3549.4	3248.1	2920.1	2620.5
12.5°	2529.0	2566.8	2713.3	3083.8	3405.3	3585.5	3615.6	3471.4	3181.3	2828.6	2499.4
15°	2472.9	2509.5	2667.2	3004.1	3276.5	3386.3	3396.4	3349.1	3148.8	2835.1	2494.1
17.5°	2542.6	2589.9	2749.3	3027.7	3158.2	3164.7	3172.5	3209.7	3152.4	2953.8	2601.7
20°	2744.0	2794.8	2961.5	3103.9	3054.9	2987.5	2991.6	3087.4	3194.3	3150.0	2858.7
22.5°	3034.8	3079.1	3249.8	3238.0	3011.1	2872.3	2843.3	2976.9	3256.3	3394.6	3132.2
25°	3348.5	3400.5	3596.7	3437.1	3023.6	2803.8	2785.4	2911.9	3320.8	3623.3	3448.4
27.5°	3707.8	3758.6	3913.4	3638.1	3088.5	2798.4	2776.5	2905.9	3378.6	3834.8	3750.3
30°	3974.9	4021.6	4126.7	3807.0	3168.3	2833.8	2806.7	2952.6	3428.3	3979.6	4044.6
32.5°	4184.7	4233.1	4290.4	3912.3	3273.5	2898.3	2848.1	3037.7	3493.3	4090.1	4262.7
35°	4403.3	4460.6	4456.4	4005.6	3371.6	2972.7	2923.7	3160.7	3595.5	4186.4	4539.1
37.5°	4680.4	4703.4	4673.9	4089.5	3489.1	3106.9	3079.7	3343.2	3740.9	4302.8	4862.4
40°	4961.6	5007.8	4855.9	4191.2	3632.2	3359.1	3356.3	3613.2	3913.4	4439.3	5175.6
42.5°	5202.7	5241.7	5026.1	4279.8	3805.3	3667.0	3689.5	3975.4	4139.7	4597.6	5427.3
45°	5384.1	5419.0	5183.2	4365.5	4033.4	4022.7	4155.1	4363.7	4425.1	4740.0	5575.0
47.5°	5538.3	5572.0	5292.5	4495.4	4315.2	4447.6	4678.0	4768.4	4669.2	4821.6	5740.4
50°	5668.4	5678.4	5367.5	4650.2	4665.0	4968.1	5191.5	5250.0	4910.3	4938.6	5884.0
52.5°	5803.7	5790.7	5497.0	4845.2	5043.1	5462.1	5624.6	5685.4	5141.3	5082.8	6093.1
55°	6106.8	6119.1	5787.1	5091.1	5425.5	5947.2	6161.1	6102.6	5397.1	5348.0	6359.1
57.5°	6473.1	6462.5	6195.4	5475.7	5814.9	6398.7	6558.2	6464.3	5738.7	5712.7	6628.5
60°	6615.5	6629.7	6537.0	5889.3	6198.9	6793.9	6957.0	6811.1	6148.1	6136.3	6831.8
62.5°	6472.5	6552.3	6614.9	6257.4	6526.3	7084.7	7246.6	7080.0	6575.3	6661.0	6974.2
65°	6187.7	6204.9	6418.2	6569.4	6684.1	7132.5	7217.1	7128.4	6932.2	7139.0	6967.7
67.5°	5817.8	5832.6	6082.6	6671.6	6480.8	6588.9	6648.0	6622.0	6821.7	7302.7	6646.8
70°	5465.7	5453.8	5717.9	6411.0	5641.7	5477.5	5526.5	5445.0	5886.4	6902.7	6017.5
72.5°	4780.2	4822.8	5106.4	5686.6	4467.1	4200.0	4307.0	4096.0	4527.3	5911.8	4884.2
75°	3744.4	3754.5	4227.7	4772.5	3369.8	2948.5	3093.2	3005.2	3467.9	4931.5	3372.8
77.5°	2592.8	2570.4	3079.1	3645.2	2403.1	2158.5	2160.8	2118.9	2421.4	3631.0	2291.4
80°	1646.8	1612.5	1927.4	2251.8	1651.5	1766.8	1708.8	1707.1	1576.5	2240.0	1385.6
82.5°	889.9	927.7	1217.8	1411.6	1184.8	1365.6	1251.5	1214.8	1081.9	1402.2	886.4
85°	405.4	440.8	649.3	960.2	899.9	909.9	608.0	717.3	895.2	1138.6	473.3
87.5°	39.6	50.8	134.1	453.2	307.2	242.3	90.4	174.3	225.1	404.7	37.8
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°	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8
2.5°	3059.6	3028.9	2924.3	2838.0	2746.5	2676.7	2585.7	2524.9	2482.9	2419.6	2412.0
5°	2918.9	2843.9	2661.9	2476.4	2316.3	2195.7	2073.4	1961.1	1894.9	1874.3	1847.7
7.5°	2682.0	2555.6	2321.6	2108.9	1925.1	1745.5	1607.2	1509.1	1443.5	1405.1	1359.1
10°	2487.0	2340.5	2055.7	1795.1	1643.8	1532.2	1410.4	1305.3	1224.3	1155.2	1117.3
12.5°	2355.8	2190.4	1870.1	1658.6	1541.6	1422.9	1280.4	1162.3	1042.9	964.3	930.7
15°	2316.3	2141.3	1812.8	1590.7	1422.9	1267.4	1107.9	953.7	835.5	761.1	736.3
17.5°	2413.1	2201.6	1812.3	1500.2	1283.4	1097.8	893.4	748.6	627.5	572.0	554.3
20°	2594.0	2317.4	1817.6	1411.0	1132.1	870.9	650.0	531.2	473.3	449.7	440.8
22.5°	2846.3	2494.1	1833.5	1323.0	966.7	668.9	486.9	426.6	405.9	401.8	400.0
25°	3157.1	2712.7	1887.3	1243.8	827.2	510.5	407.1	379.9	368.1	364.0	363.4
27.5°	3443.1	2995.2	1952.3	1175.8	692.5	440.2	368.1	345.1	333.2	332.7	333.9
30°	3701.3	3231.5	2006.7	1099.6	590.3	391.2	342.7	319.7	308.4	307.9	311.4
32.5°	3924.6	3425.9	2046.8	1024.6	533.5	361.0	319.7	294.9	285.4	283.6	285.4
35°	4163.4	3619.7	2028.5	966.1	501.0	336.2	302.6	278.3	267.1	261.8	261.8
37.5°	4435.8	3819.5	1997.2	917.7	486.3	315.5	287.8	264.1	252.9	247.6	247.0
40°	4733.0	4019.2	1954.1	874.5	471.5	303.1	277.7	252.9	239.3	234.0	232.8
42.5°	4995.3	4189.9	1918.6	846.1	447.3	305.4	268.9	244.6	227.5	220.4	219.8
45°	5223.4	4361.9	1912.1	829.6	427.2	301.9	266.5	238.1	218.1	210.4	209.1
47.5°	5401.8	4540.9	1949.4	820.1	405.4	283.1	281.9	234.0	209.8	201.5	200.3
50°	5619.3	4795.0	2034.4	800.6	385.2	265.3	297.8	233.4	203.3	192.6	189.6
52.5°	5908.8	5125.9	2149.6	765.8	356.3	248.8	284.2	233.4	195.6	184.9	181.4
55°	6346.7	5547.8	2262.5	716.8	315.5	226.9	256.4	226.3	184.3	174.9	172.6
57.5°	6636.8	5856.2	2334.6	648.8	264.7	210.9	221.0	215.1	173.1	163.1	163.1
60°	6651.6	5939.0	2300.3	563.1	232.8	196.1	192.1	216.9	163.1	152.5	151.3
62.5°	6481.4	5736.3	2121.9	486.3	215.6	180.2	173.7	190.3	153.1	142.4	140.6
65°	6215.5	5219.2	1812.3	449.7	206.2	166.1	156.6	156.0	142.4	132.3	130.0
67.5°	5726.9	4561.1	1489.0	428.4	201.5	150.1	141.3	138.3	130.0	121.8	120.5
70°	5006.6	3820.0	1194.2	419.5	199.1	133.5	126.5	122.9	115.8	109.3	108.8
72.5°	3895.1	3098.6	985.6	413.6	197.9	118.2	110.5	105.8	101.6	95.8	95.8
75°	2797.8	2279.6	752.2	372.9	183.1	101.6	93.3	90.4	84.5	79.8	81.0
77.5°	1763.8	1535.1	495.2	274.2	141.8	81.5	74.5	72.7	68.0	61.5	65.6
80°	1191.3	1079.5	288.9	172.6	89.3	59.7	57.3	56.7	51.4	44.3	44.9
82.5°	810.7	795.3	150.1	98.1	51.4	34.8	33.7	34.8	29.0	23.6	23.6
85°	316.7	432.5	70.9	38.4	16.5	5.3	7.7	8.3	4.7	2.3	3.0
87.5°	5.9	44.3	1.8	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°	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8
2.5°	2400.1	2394.9	2403.7	2365.9	2373.6	2387.8	2394.9	2399.0	2457.4	2443.9	2481.1
5°	1872.5	1867.2	1901.4	1906.2	1923.9	1920.4	1937.5	1941.6	1962.9	1970.6	2022.6
7.5°	1362.0	1385.0	1424.0	1444.1	1474.2	1483.7	1474.9	1496.7	1452.4	1484.3	1493.7
10°	1094.3	1066.5	1050.0	1096.1	1102.0	1145.7	1128.0	1113.8	1139.8	1141.0	1165.8
12.5°	911.2	851.4	811.9	824.9	839.1	857.9	860.9	889.3	908.2	925.9	940.7
15°	714.4	693.7	657.6	639.9	660.0	667.7	686.0	709.6	729.8	735.1	755.1
17.5°	548.3	551.9	546.0	535.3	547.8	553.7	554.8	555.5	560.8	557.2	586.8
20°	441.4	453.8	468.5	470.9	475.0	478.0	472.7	452.7	453.2	465.7	475.0
22.5°	399.4	401.8	418.4	423.7	436.7	431.4	416.0	406.5	405.4	408.3	413.0
25°	366.4	369.9	381.7	390.0	400.0	390.6	379.4	370.5	369.3	372.2	377.0
27.5°	336.8	342.1	352.7	361.0	370.5	361.6	351.0	343.3	342.7	342.1	345.1
30°	313.2	319.1	326.7	336.2	342.7	335.0	325.0	320.9	320.2	319.1	320.2
32.5°	289.6	298.9	306.7	311.4	317.9	311.9	304.3	301.9	297.8	294.3	292.5
35°	262.9	273.0	284.8	290.7	297.2	291.3	286.0	275.9	268.9	268.3	269.4
37.5°	247.6	251.7	261.2	271.2	277.7	274.8	264.7	254.6	252.9	252.9	254.1
40°	234.0	235.8	239.9	252.9	264.7	255.9	243.4	240.5	240.5	239.9	240.5
42.5°	220.4	222.1	222.1	232.2	251.1	236.9	227.5	227.5	227.5	228.1	229.9
45°	208.0	208.6	208.0	215.1	232.8	221.0	214.5	216.3	217.4	218.6	219.8
47.5°	197.3	197.9	197.3	203.3	212.1	207.4	203.9	206.2	208.6	210.4	211.6
50°	187.9	187.3	188.5	192.1	196.1	197.3	195.0	198.6	199.7	202.1	205.1
52.5°	179.6	179.1	180.2	182.0	187.9	187.9	187.9	190.8	193.2	195.6	199.7
55°	170.1	170.8	172.6	174.9	182.6	181.4	182.0	184.3	186.7	190.3	192.6
57.5°	161.3	162.5	164.8	168.4	176.1	175.5	176.1	177.3	180.2	182.0	184.3
60°	151.3	153.6	156.6	158.9	166.6	166.1	169.0	171.3	173.1	173.1	174.3
62.5°	141.3	144.8	147.8	149.5	157.8	158.3	162.5	164.3	165.4	164.3	166.1
65°	131.2	136.5	137.7	140.0	148.3	148.9	153.6	157.8	156.6	155.4	158.3
67.5°	121.1	127.6	127.0	130.0	138.3	139.5	143.6	150.6	148.3	147.1	149.5
70°	109.9	114.6	115.3	117.0	128.3	126.5	133.0	139.5	137.7	138.3	138.3
72.5°	97.5	101.6	101.6	105.2	117.0	114.0	119.3	126.5	126.5	125.8	125.8
75°	82.7	85.1	87.5	92.8	105.2	101.6	105.2	111.7	112.8	111.7	111.7
77.5°	66.8	70.3	71.5	78.6	87.5	86.8	90.4	93.3	95.8	94.5	94.5
80°	47.3	50.8	55.5	63.2	68.5	70.3	72.1	74.5	75.6	75.6	76.8
82.5°	26.6	31.9	36.0	43.7	46.1	55.0	54.3	56.1	54.3	47.8	53.2
85°	5.9	11.2	16.0	20.1	23.0	31.9	33.7	37.8	31.3	29.0	29.0
87.5°	0.0	0.0	0.0	0.0	0.0	4.7	9.5	13.0	11.2	9.5	9.5
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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 CATALOG NUMBER: GLAN-SA3A-835-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8	2878.8
2.5°	2512.4	2563.9	2625.9	2732.8	2807.8	2888.8	2970.4	3057.2	3080.2	3103.9
5°	2036.7	2137.8	2192.8	2336.3	2487.0	2678.5	2835.1	3006.4	3077.9	3094.4
7.5°	1542.8	1611.3	1755.5	1900.9	2087.6	2288.5	2528.4	2795.5	2878.8	2913.6
10°	1223.1	1316.5	1442.9	1599.0	1762.6	1978.9	2249.5	2561.5	2679.7	2699.2
12.5°	1041.2	1145.1	1282.8	1447.7	1602.5	1765.6	2038.5	2360.6	2487.0	2529.0
15°	832.6	958.4	1117.3	1291.1	1459.5	1638.0	1914.4	2277.8	2423.8	2472.9
17.5°	654.1	755.8	927.7	1116.2	1315.9	1541.6	1888.4	2317.4	2497.1	2542.6
20°	500.5	573.2	717.9	917.0	1151.0	1446.5	1894.9	2466.9	2682.0	2744.0
22.5°	432.5	469.7	557.8	747.5	1009.2	1363.8	1921.6	2672.0	2931.4	3034.8
25°	391.7	411.2	460.9	585.0	873.9	1283.4	1982.4	2947.9	3280.0	3348.5
27.5°	356.9	371.1	401.8	491.0	751.0	1209.0	2053.3	3254.0	3605.6	3707.8
30°	323.8	342.7	371.7	436.1	672.4	1141.0	2142.5	3502.1	3879.8	3974.9
32.5°	298.4	317.3	343.9	397.7	605.7	1069.5	2195.7	3720.2	4103.7	4184.7
35°	277.7	293.7	321.4	366.9	554.8	1015.2	2185.1	3893.3	4320.5	4403.3
37.5°	262.9	276.6	304.3	338.0	516.5	958.4	2179.8	4122.0	4584.6	4680.4
40°	249.4	263.6	288.9	319.1	478.0	891.7	2182.7	4348.9	4866.0	4961.6
42.5°	238.7	254.6	275.4	313.7	438.4	837.9	2182.7	4546.3	5110.6	5202.7
45°	229.9	247.0	267.1	313.2	407.1	797.1	2168.0	4715.9	5305.5	5384.1
47.5°	222.1	241.1	270.1	302.6	399.4	767.6	2155.0	4851.7	5464.5	5538.3
50°	216.9	239.3	287.2	290.1	401.8	758.7	2217.6	5023.1	5604.6	5668.4
52.5°	212.7	239.9	286.6	271.8	397.7	764.6	2348.1	5290.7	5798.9	5803.7
55°	204.4	239.3	271.8	251.1	380.5	774.6	2516.0	5679.6	6103.3	6106.8
57.5°	196.1	232.8	252.3	233.4	345.7	774.6	2718.0	6047.7	6470.2	6473.1
60°	187.9	242.3	221.6	218.1	300.2	760.4	2931.4	6209.6	6585.4	6615.5
62.5°	179.6	244.1	197.9	204.4	267.1	726.2	3090.3	6030.5	6429.4	6472.5
65°	170.1	196.8	182.6	190.3	249.9	668.9	3040.1	5702.6	6136.3	6187.7
67.5°	158.9	166.6	166.1	175.5	244.1	584.4	2775.3	5287.8	5820.7	5817.8
70°	145.3	149.5	151.3	161.3	232.8	518.8	2312.7	4749.5	5399.5	5465.7
72.5°	131.2	134.8	136.5	145.3	221.6	481.5	1795.1	4007.9	4676.9	4780.2
75°	115.8	118.2	120.5	128.3	209.8	426.6	1278.6	3059.6	3581.9	3744.4
77.5°	99.8	99.8	102.8	110.5	176.6	352.2	857.9	2146.0	2426.8	2592.8
80°	81.0	81.5	80.3	88.6	130.0	241.1	487.5	1433.5	1614.9	1646.8
82.5°	62.0	60.3	60.8	65.0	96.9	164.3	260.0	890.4	907.6	889.9
85°	39.0	39.0	37.8	42.5	62.0	85.7	141.8	545.4	426.0	405.4
87.5°	16.0	13.0	14.8	17.1	29.5	34.8	55.5	112.3	43.1	39.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)