

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: P649262

Luminaire Tested: **GLAN-SA2D-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649262
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-SA2D-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA 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: 10500 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

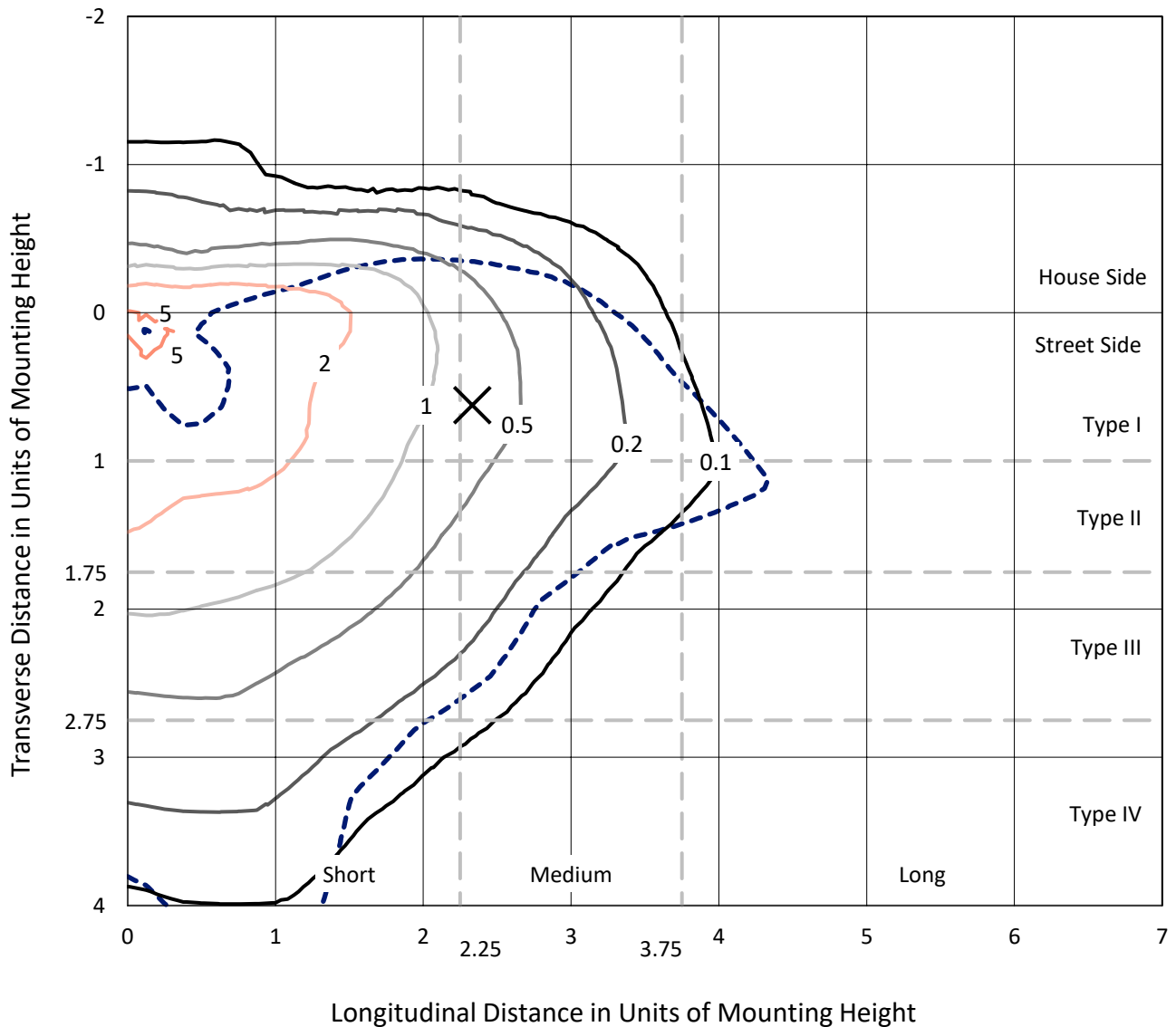
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

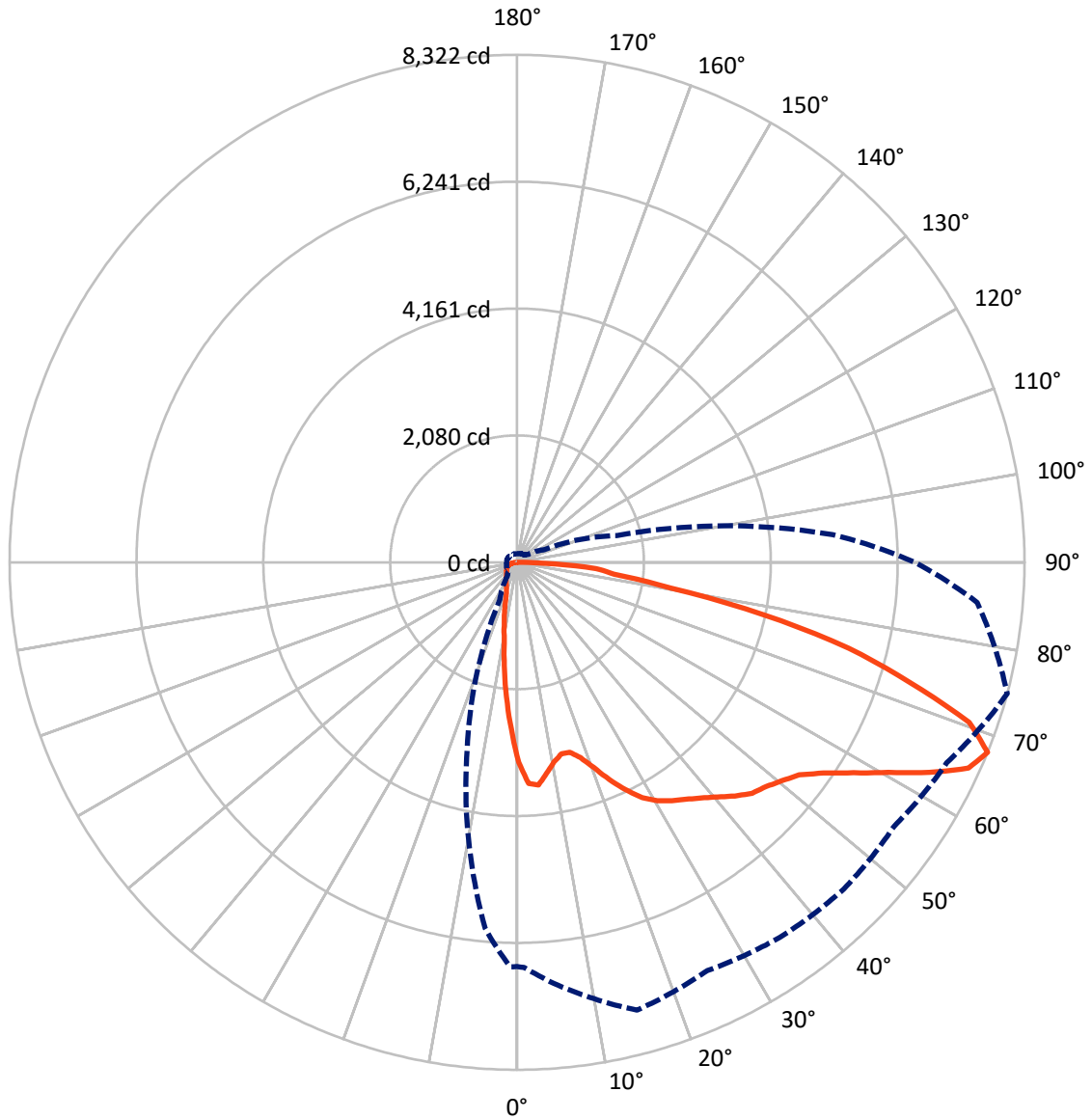
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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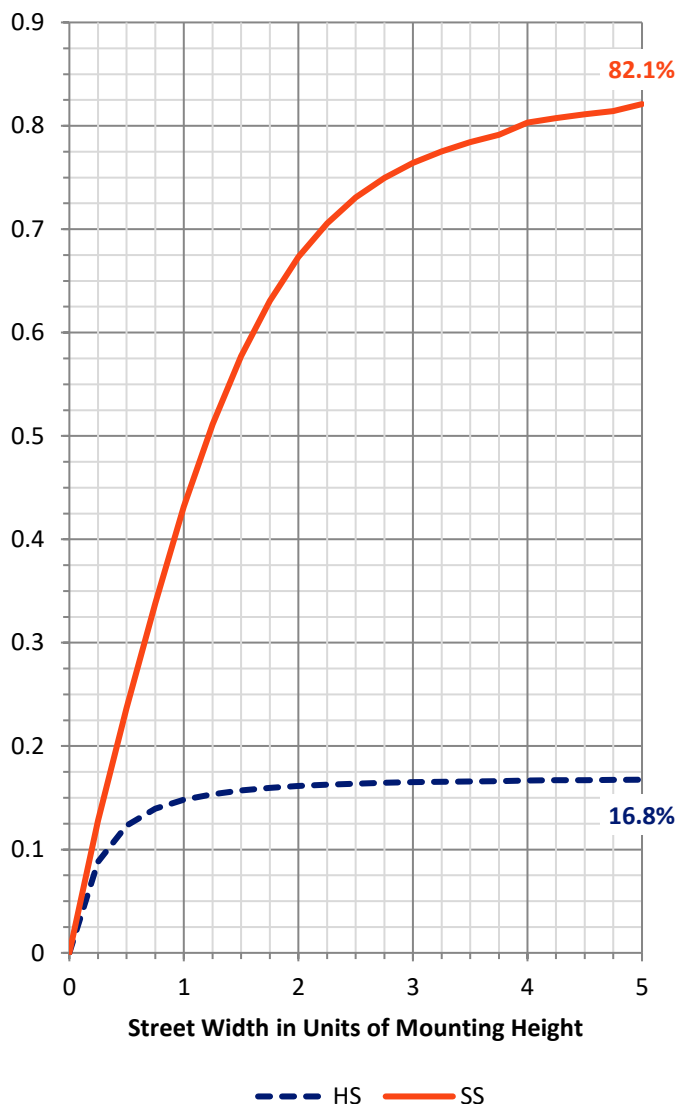
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1774.7	0.0	1774.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	8725.3	0.0	8725.3
	% Fixture	83.1	0.0	83.1
Total	Lumens	10500.0	0.0	10500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.8	2.4
10°-20°	518.9	4.9
20°-30°	746.7	7.1
30°-40°	1075.5	10.2
40°-50°	1510.8	14.4
50°-60°	2107.0	20.1
60°-70°	2505.1	23.9
70°-80°	1475.3	14.1
80°-90°	312.0	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°	10500.0	100.0
0°-180°	10500.0	100.0

Coefficient of Utilization

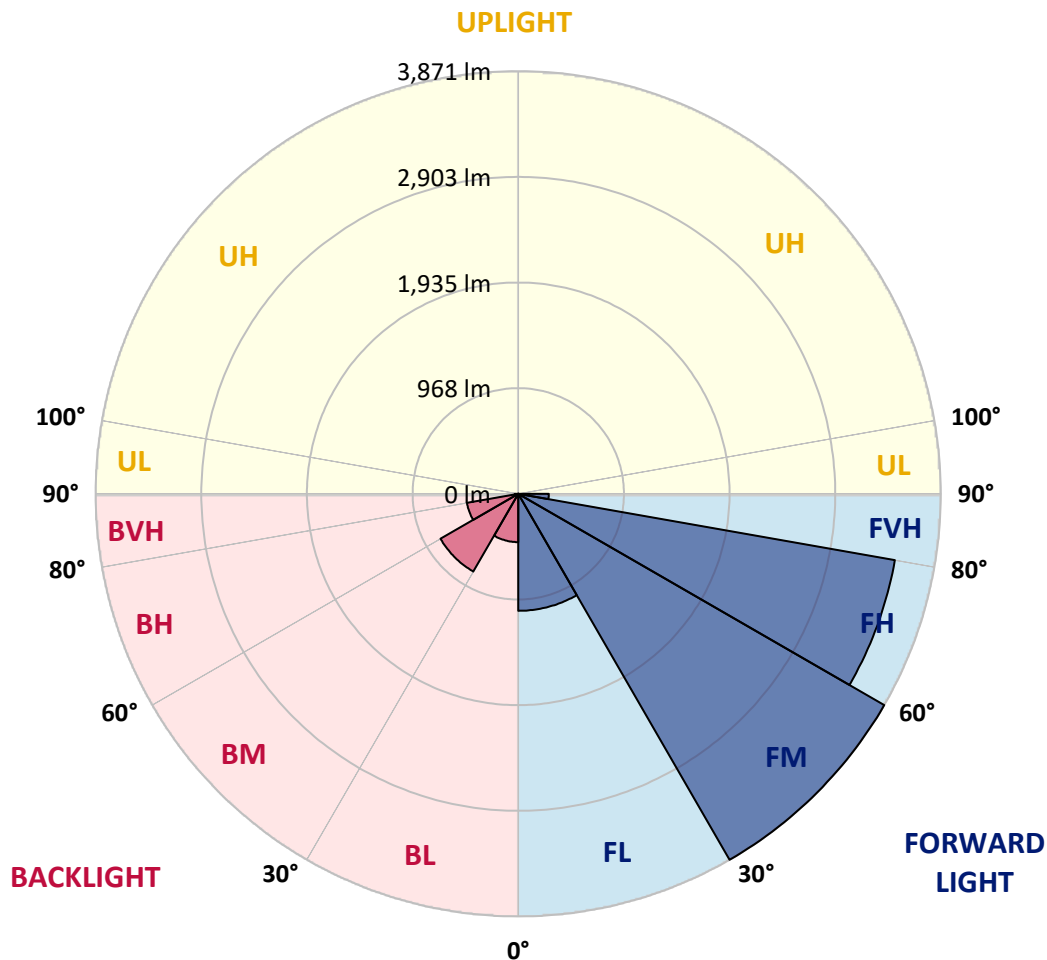


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1071.8	10.2			
FM (30°-60°)	3871.0	36.9			
FH (60°-80°)	3502.8	33.4			G2/5000
FVH (80°-90°)	279.7	2.7			G3/500
BL (0°-30°)	442.7	4.2	B1/500		
BM (30°-60°)	822.2	7.8	B1/1000		
BH (60°-80°)	477.5	4.5	B1/500		G1/500
BVH (80°-90°)	32.3	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°	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5
2.5°	3537.0	3541.7	3572.0	3660.2	3720.8	3743.1	3758.6	3729.6	3701.3	3632.6	3528.9
5°	3526.2	3553.8	3632.6	3830.6	3986.8	4054.1	4074.3	3987.4	3844.1	3667.7	3455.5
7.5°	3320.2	3357.2	3478.4	3810.4	4085.8	4243.3	4222.4	4065.6	3807.0	3492.6	3196.3
10°	3075.8	3116.8	3262.9	3664.3	4019.1	4235.9	4235.9	4044.7	3701.3	3327.6	2986.2
12.5°	2881.8	2925.0	3091.9	3514.1	3880.4	4085.8	4120.1	3955.8	3625.2	3223.2	2848.2
15°	2817.9	2859.6	3039.4	3423.2	3733.6	3858.9	3870.3	3816.4	3588.2	3230.7	2842.1
17.5°	2897.3	2951.2	3133.0	3450.1	3599.0	3606.3	3615.1	3657.5	3592.2	3366.0	2964.7
20°	3126.9	3184.9	3374.7	3537.0	3481.1	3404.3	3409.0	3518.2	3640.0	3589.5	3257.6
22.5°	3458.2	3508.7	3703.3	3689.8	3431.3	3273.0	3240.1	3392.3	3710.7	3868.3	3569.3
25°	3815.7	3875.0	4098.5	3916.7	3445.4	3195.0	3174.0	3318.2	3784.1	4128.8	3929.6
27.5°	4225.1	4283.0	4459.4	4145.7	3519.5	3188.9	3163.9	3311.5	3850.1	4369.9	4273.6
30°	4529.5	4582.7	4702.5	4338.3	3610.4	3229.2	3198.3	3364.6	3906.6	4534.9	4609.0
32.5°	4768.5	4823.7	4889.1	4458.1	3730.2	3302.7	3245.5	3461.6	3980.7	4660.8	4857.4
35°	5017.6	5082.9	5078.2	4564.5	3842.0	3387.5	3331.7	3601.6	4097.2	4770.5	5172.5
37.5°	5333.4	5359.7	5326.0	4660.1	3976.0	3540.3	3509.4	3809.7	4262.8	4903.1	5540.8
40°	5654.0	5706.4	5533.4	4775.9	4138.9	3827.9	3824.5	4117.4	4459.4	5058.7	5897.7
42.5°	5928.6	5973.1	5727.3	4876.9	4336.3	4178.7	4204.2	4530.1	4717.3	5239.2	6184.5
45°	6135.4	6175.1	5906.4	4974.6	4596.1	4584.0	4734.9	4972.5	5042.6	5401.4	6352.9
47.5°	6311.1	6349.5	6031.0	5122.7	4917.3	5068.1	5330.7	5433.8	5320.6	5494.4	6541.4
50°	6459.3	6470.7	6116.5	5299.1	5315.9	5661.3	5915.9	5982.5	5595.4	5627.7	6705.0
52.5°	6613.5	6598.7	6264.0	5521.3	5746.8	6224.2	6409.4	6478.8	5858.6	5792.0	6943.3
55°	6958.8	6973.0	6594.6	5801.4	6182.5	6777.0	7020.8	6954.1	6150.2	6094.3	7246.4
57.5°	7376.3	7364.2	7059.8	6239.7	6626.2	7291.5	7473.3	7366.2	6539.4	6509.7	7553.4
60°	7538.6	7554.8	7449.1	6711.1	7063.9	7741.9	7927.8	7761.5	7006.0	6992.5	7785.1
62.5°	7375.6	7466.5	7537.9	7130.5	7436.9	8073.2	8257.7	8067.8	7492.8	7590.4	7947.3
65°	7051.1	7070.6	7313.7	7486.1	7616.7	8127.8	8224.0	8123.1	7899.5	8135.1	7939.9
67.5°	6629.6	6646.4	6931.3	7602.5	7385.1	7508.3	7575.6	7546.0	7773.5	8321.6	7574.3
70°	6228.3	6214.8	6515.8	7305.6	6429.0	6241.8	6297.7	6204.7	6707.7	7865.9	6857.2
72.5°	5447.3	5495.7	5818.9	6480.1	5090.4	4786.0	4907.9	4667.5	5159.0	6736.6	5565.7
75°	4266.9	4278.3	4817.6	5438.5	3840.0	3359.9	3524.9	3424.5	3951.8	5619.6	3843.4
77.5°	2954.6	2929.0	3508.7	4153.7	2738.5	2459.6	2462.4	2414.5	2759.3	4137.6	2611.1
80°	1876.5	1837.5	2196.4	2566.0	1881.9	2013.2	1947.2	1945.3	1796.4	2552.6	1578.9
82.5°	1014.1	1057.1	1387.7	1608.6	1350.0	1556.1	1426.1	1384.3	1232.8	1597.8	1010.0
85°	461.9	502.3	740.0	1094.2	1025.5	1036.9	692.9	817.5	1020.1	1297.5	539.3
87.5°	45.1	57.9	152.8	516.5	350.2	276.1	103.0	198.6	256.5	461.3	43.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5
2.5°	3486.5	3451.5	3332.3	3234.0	3129.7	3050.2	2946.5	2877.1	2829.3	2757.3	2748.6
5°	3326.3	3240.8	3033.3	2821.9	2639.4	2502.1	2362.7	2234.8	2159.4	2135.8	2105.5
7.5°	3056.2	2912.1	2645.5	2403.1	2193.7	1989.0	1831.4	1719.7	1644.9	1601.2	1548.6
10°	2834.1	2667.1	2342.5	2045.6	1873.2	1745.9	1607.3	1487.4	1395.1	1316.4	1273.2
12.5°	2684.6	2496.0	2131.1	1890.0	1756.7	1621.4	1459.1	1324.4	1188.4	1098.9	1060.5
15°	2639.4	2440.1	2065.8	1812.6	1621.4	1444.3	1262.5	1086.7	952.0	867.3	839.0
17.5°	2749.9	2508.8	2065.1	1709.6	1462.5	1251.1	1018.1	853.1	715.1	651.8	631.6
20°	2955.9	2640.8	2071.2	1607.9	1290.1	992.5	740.6	605.3	539.3	512.4	502.3
22.5°	3243.4	2842.1	2089.4	1507.6	1101.6	762.2	554.8	486.2	462.6	457.9	455.9
25°	3597.6	3091.3	2150.6	1417.4	942.7	581.8	463.9	432.9	419.5	414.8	414.1
27.5°	3923.5	3413.1	2224.7	1339.9	789.1	501.7	419.5	393.2	379.8	379.1	380.5
30°	4217.7	3682.4	2286.6	1253.0	672.7	445.8	390.6	364.3	351.5	350.8	354.9
32.5°	4472.3	3904.0	2332.4	1167.5	608.0	411.4	364.3	336.0	325.2	323.2	325.2
35°	4744.3	4124.8	2311.6	1100.9	571.0	383.1	344.8	317.1	304.4	298.3	298.3
37.5°	5054.7	4352.4	2275.9	1045.7	554.1	359.6	327.9	301.0	288.2	282.1	281.5
40°	5393.4	4580.0	2226.7	996.5	537.3	345.4	316.5	288.2	272.7	266.6	265.3
42.5°	5692.3	4774.6	2186.3	964.2	509.7	348.1	306.4	278.7	259.3	251.2	250.5
45°	5952.2	4970.5	2178.9	945.3	486.8	344.1	303.6	271.4	248.4	239.7	238.3
47.5°	6155.6	5174.5	2221.3	934.6	461.9	322.5	321.2	266.6	239.0	229.6	228.2
50°	6403.4	5464.1	2318.3	912.4	439.0	302.3	339.4	266.0	231.6	219.5	216.1
52.5°	6733.3	5841.1	2449.5	872.7	406.0	283.4	323.8	266.0	222.8	210.8	206.7
55°	7232.3	6321.9	2578.2	816.7	359.6	258.5	292.2	257.9	210.1	199.3	196.6
57.5°	7562.8	6673.4	2660.3	739.3	301.7	240.4	251.8	245.1	197.3	185.8	185.8
60°	7579.7	6767.6	2621.2	641.7	265.3	223.5	218.8	247.1	185.8	173.7	172.3
62.5°	7385.7	6536.6	2417.9	554.1	245.8	205.4	197.9	216.8	174.4	162.2	160.3
65°	7082.8	5947.5	2065.1	512.4	235.0	189.2	178.4	177.7	162.2	150.8	148.1
67.5°	6525.9	5197.4	1696.8	488.2	229.6	171.0	160.9	157.5	148.1	138.7	137.3
70°	5705.1	4353.1	1360.8	478.1	226.9	152.1	144.1	140.1	131.9	124.6	123.9
72.5°	4438.6	3530.9	1123.1	471.4	225.6	134.7	125.9	120.5	115.8	109.1	109.1
75°	3188.2	2597.7	857.2	424.9	208.7	115.8	106.4	103.0	96.3	90.9	92.2
77.5°	2009.9	1749.3	564.2	312.4	161.6	92.9	84.9	82.8	77.4	70.0	74.8
80°	1357.4	1230.2	329.3	196.6	101.7	68.0	65.3	64.7	58.6	50.5	51.2
82.5°	923.8	906.3	171.0	111.7	58.6	39.7	38.4	39.7	33.0	26.9	26.9
85°	360.9	492.9	80.8	43.8	18.9	6.0	8.8	9.4	5.4	2.7	3.4
87.5°	6.7	50.5	2.0	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°	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5
2.5°	2735.1	2729.0	2739.1	2696.0	2704.8	2720.9	2729.0	2733.7	2800.4	2784.9	2827.3
5°	2133.8	2127.7	2166.8	2172.1	2192.3	2188.3	2207.8	2212.5	2236.8	2245.6	2304.8
7.5°	1552.0	1578.3	1622.7	1645.6	1679.9	1690.7	1680.6	1705.5	1655.0	1691.4	1702.2
10°	1247.0	1215.4	1196.5	1249.0	1255.8	1305.6	1285.4	1269.2	1298.8	1300.2	1328.5
12.5°	1038.3	970.3	925.2	940.0	956.1	977.7	981.0	1013.4	1034.9	1055.1	1071.9
15°	814.1	790.5	749.4	729.2	752.1	760.8	781.7	808.7	831.5	837.7	860.5
17.5°	624.8	628.9	622.2	610.0	624.2	630.9	632.3	632.9	639.0	634.9	668.6
20°	503.0	517.1	533.9	536.7	541.4	544.7	538.6	515.8	516.5	530.6	541.4
22.5°	455.2	457.9	476.7	482.8	497.6	491.6	474.0	463.2	461.9	465.3	470.7
25°	417.5	421.5	435.0	444.4	455.9	445.1	432.3	422.2	420.9	424.2	429.6
27.5°	383.8	389.9	402.0	411.4	422.2	412.1	400.0	391.2	390.6	389.9	393.2
30°	356.9	363.6	372.3	383.1	390.6	381.8	370.4	365.6	365.0	363.6	365.0
32.5°	330.0	340.7	349.5	354.9	362.2	355.5	346.8	344.1	339.4	335.3	333.3
35°	299.7	311.1	324.6	331.3	338.6	331.9	325.9	314.5	306.4	305.7	307.0
37.5°	282.1	286.8	297.6	309.1	316.5	313.1	301.7	290.2	288.2	288.2	289.6
40°	266.6	268.6	273.3	288.2	301.7	291.6	277.4	274.0	274.0	273.3	274.0
42.5°	251.2	253.1	253.1	264.7	286.2	270.0	259.3	259.3	259.3	259.9	261.9
45°	237.0	237.7	237.0	245.1	265.3	251.8	244.5	246.4	247.8	249.2	250.5
47.5°	224.9	225.6	224.9	231.6	241.7	236.3	232.3	235.0	237.7	239.7	241.1
50°	214.2	213.4	214.8	218.8	223.5	224.9	222.2	226.2	227.6	230.3	233.6
52.5°	204.7	204.0	205.4	207.4	214.2	214.2	214.2	217.5	220.2	222.8	227.6
55°	193.9	194.6	196.6	199.3	208.0	206.7	207.4	210.1	212.7	216.8	219.5
57.5°	183.8	185.2	187.8	191.9	200.7	200.0	200.7	202.0	205.4	207.4	210.1
60°	172.3	175.1	178.4	181.1	189.9	189.2	192.5	195.3	197.3	197.3	198.6
62.5°	160.9	165.0	168.3	170.4	179.8	180.5	185.2	187.2	188.5	187.2	189.2
65°	149.5	155.5	156.9	159.6	169.0	169.7	175.1	179.8	178.4	177.1	180.5
67.5°	138.0	145.4	144.8	148.1	157.5	158.9	163.6	171.7	169.0	167.6	170.4
70°	125.2	130.6	131.3	133.3	146.1	144.1	151.5	158.9	156.9	157.5	157.5
72.5°	111.1	115.8	115.8	119.9	133.3	130.0	136.0	144.1	144.1	143.4	143.4
75°	94.3	96.9	99.7	105.7	119.9	115.8	119.9	127.2	128.6	127.2	127.2
77.5°	76.1	80.1	81.5	89.6	99.7	99.0	103.0	106.4	109.1	107.7	107.7
80°	53.9	57.9	63.3	72.0	78.1	80.1	82.1	84.9	86.2	86.2	87.5
82.5°	30.3	36.3	41.1	49.8	52.5	62.6	61.9	64.0	61.9	54.6	60.6
85°	6.7	12.8	18.2	22.9	26.2	36.3	38.4	43.1	35.7	33.0	33.0
87.5°	0.0	0.0	0.0	0.0	0.0	5.4	10.8	14.8	12.8	10.8	10.8
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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 CATALOG NUMBER: GLAN-SA2D-835-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5	3280.5
2.5°	2863.0	2921.6	2992.2	3114.1	3199.7	3291.9	3384.8	3483.8	3510.0	3537.0
5°	2321.0	2436.1	2498.7	2662.4	2834.1	3052.2	3230.7	3425.9	3507.4	3526.2
7.5°	1758.1	1836.1	2000.5	2166.1	2378.8	2607.8	2881.2	3185.6	3280.5	3320.2
10°	1393.8	1500.1	1644.3	1822.0	2008.6	2255.0	2563.4	2918.9	3053.5	3075.8
12.5°	1186.4	1304.9	1461.8	1649.6	1826.0	2011.9	2323.0	2689.9	2834.1	2881.8
15°	948.7	1092.1	1273.2	1471.3	1663.1	1866.4	2181.6	2595.6	2762.0	2817.9
17.5°	745.3	861.2	1057.1	1271.9	1499.5	1756.7	2152.0	2640.8	2845.5	2897.3
20°	570.3	653.1	818.1	1045.0	1311.7	1648.3	2159.4	2811.1	3056.2	3126.9
22.5°	492.9	535.3	635.6	851.7	1150.1	1554.0	2189.7	3044.8	3340.4	3458.2
25°	446.4	468.6	525.2	666.6	995.8	1462.5	2259.0	3359.2	3737.7	3815.7
27.5°	406.7	422.8	457.9	559.5	855.8	1377.6	2339.8	3708.1	4108.6	4225.1
30°	368.9	390.6	423.5	496.9	766.2	1300.2	2441.5	3990.8	4421.1	4529.5
32.5°	340.1	361.6	391.9	453.1	690.1	1218.7	2502.1	4239.2	4676.2	4768.5
35°	316.5	334.7	366.3	418.1	632.3	1156.8	2489.9	4436.6	4923.3	5017.6
37.5°	299.7	315.1	346.8	385.2	588.5	1092.1	2483.9	4697.1	5224.3	5333.4
40°	284.2	300.3	329.3	363.6	544.7	1016.0	2487.3	4955.7	5544.9	5654.0
42.5°	272.0	290.2	313.7	357.5	499.6	954.8	2487.3	5180.6	5823.6	5928.6
45°	261.9	281.5	304.4	356.9	463.9	908.4	2470.4	5373.8	6045.9	6135.4
47.5°	253.1	274.8	307.7	344.8	455.2	874.7	2455.6	5528.7	6227.0	6311.1
50°	247.1	272.7	327.2	330.6	457.9	864.6	2527.0	5724.0	6386.5	6459.3
52.5°	242.4	273.3	326.6	309.8	453.1	871.3	2675.8	6029.0	6608.1	6613.5
55°	232.9	272.7	309.8	286.2	433.6	882.8	2867.0	6472.0	6954.8	6958.8
57.5°	223.5	265.3	287.5	266.0	393.9	882.8	3097.3	6891.5	7373.0	7376.3
60°	214.2	276.1	252.5	248.4	342.0	866.5	3340.4	7076.0	7504.3	7538.6
62.5°	204.7	278.1	225.6	232.9	304.4	827.6	3521.5	6872.0	7326.5	7375.6
65°	193.9	224.3	208.0	216.8	284.9	762.2	3464.3	6498.3	6992.5	7051.1
67.5°	181.1	189.9	189.2	200.0	278.1	665.9	3162.6	6025.7	6632.9	6629.6
70°	165.6	170.4	172.3	183.8	265.3	591.2	2635.4	5412.3	6152.9	6228.3
72.5°	149.5	153.5	155.5	165.6	252.5	548.7	2045.6	4567.2	5329.4	5447.3
75°	131.9	134.7	137.3	146.1	239.0	486.2	1457.1	3486.5	4081.7	4266.9
77.5°	113.8	113.8	117.1	125.9	201.3	401.3	977.7	2445.5	2765.4	2954.6
80°	92.2	92.9	91.6	101.0	148.1	274.8	555.5	1633.5	1840.2	1876.5
82.5°	70.7	68.7	69.4	74.1	110.4	187.2	296.3	1014.7	1034.3	1014.1
85°	44.5	44.5	43.1	48.5	70.7	97.6	161.6	621.5	485.5	461.9
87.5°	18.2	14.8	16.8	19.5	33.7	39.7	63.3	127.9	49.2	45.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)