

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: P453016

Luminaire Tested: **GLAN-SA4A-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453016
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-SA4A-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 14202 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 121
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

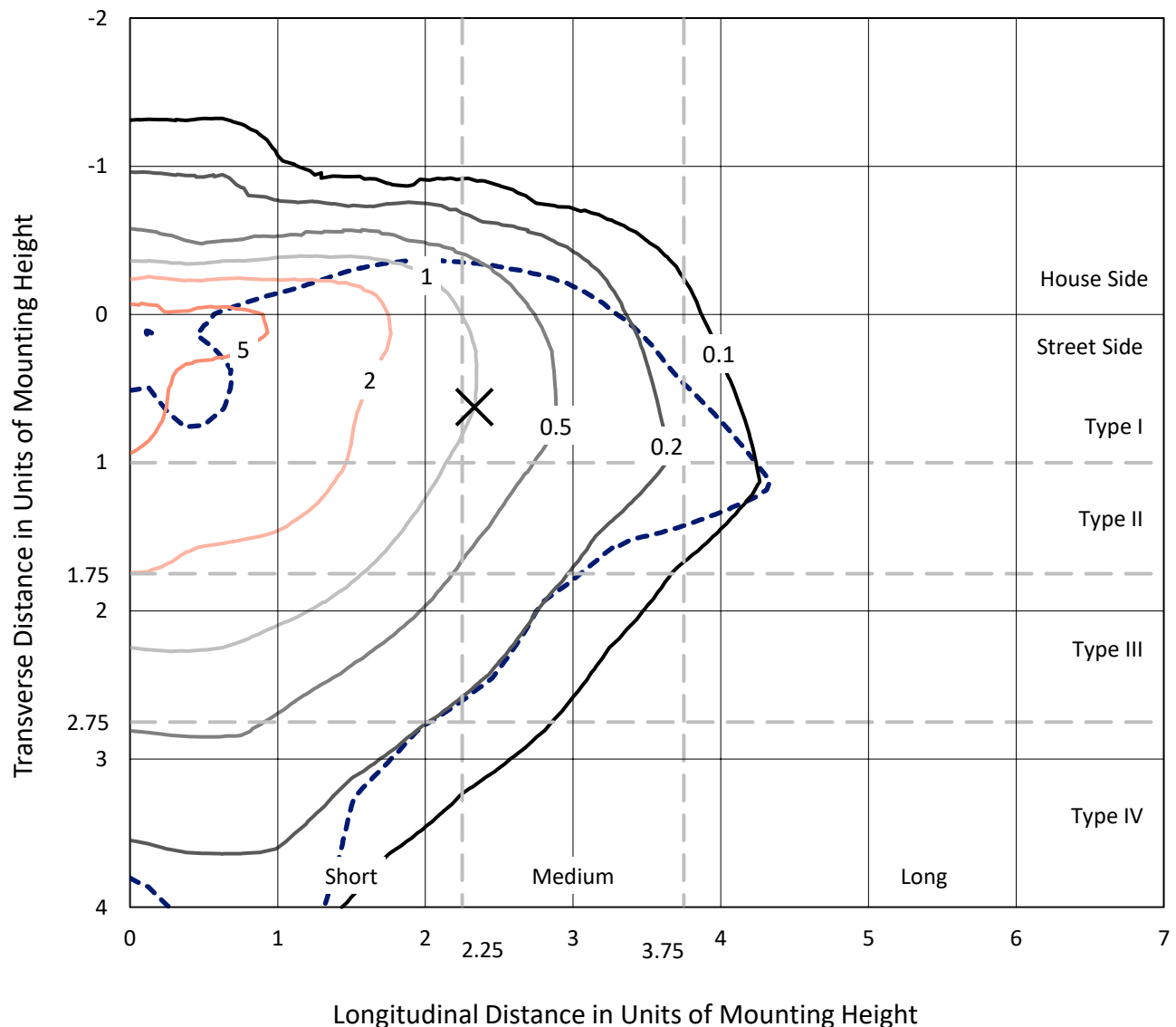


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

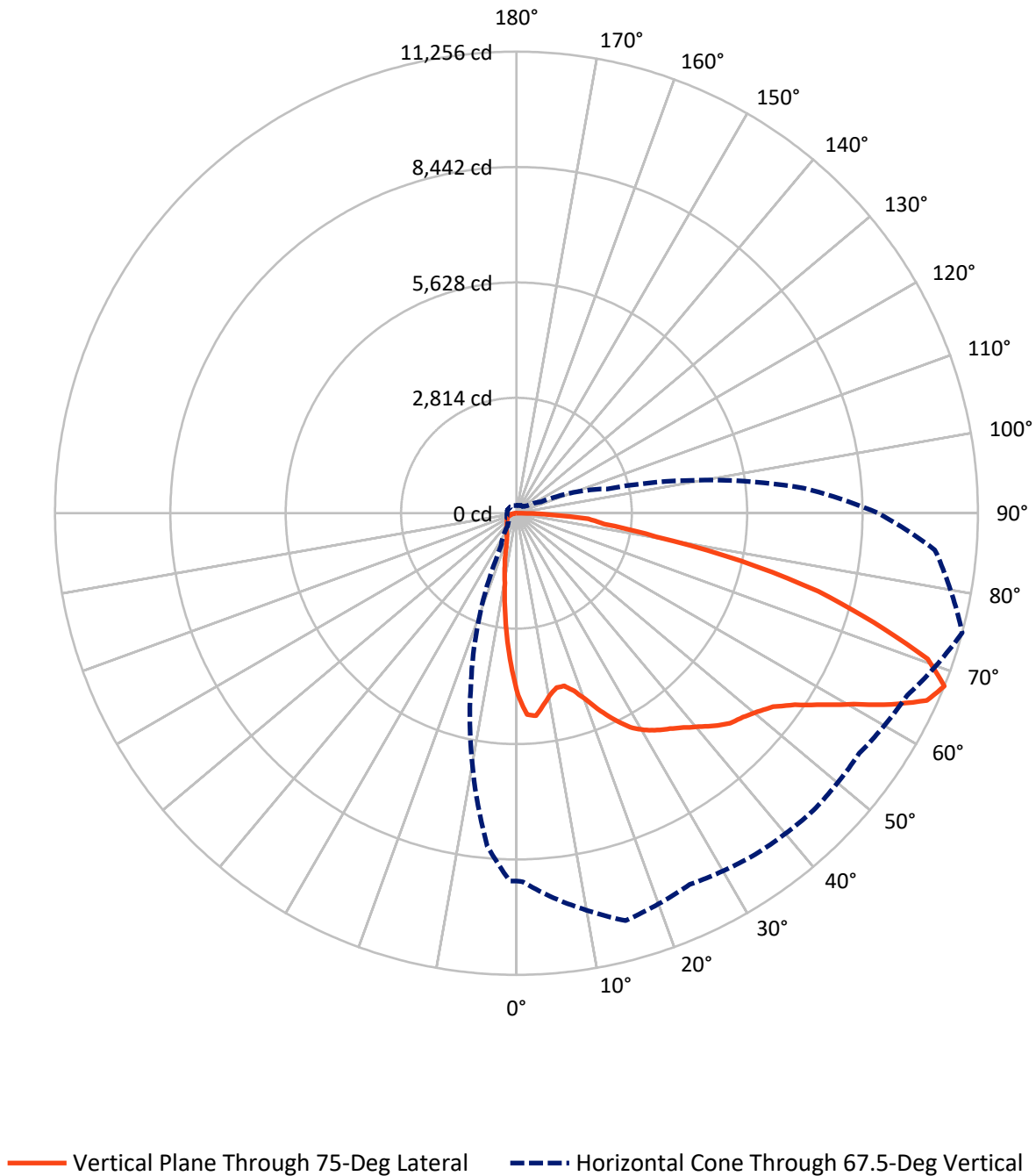


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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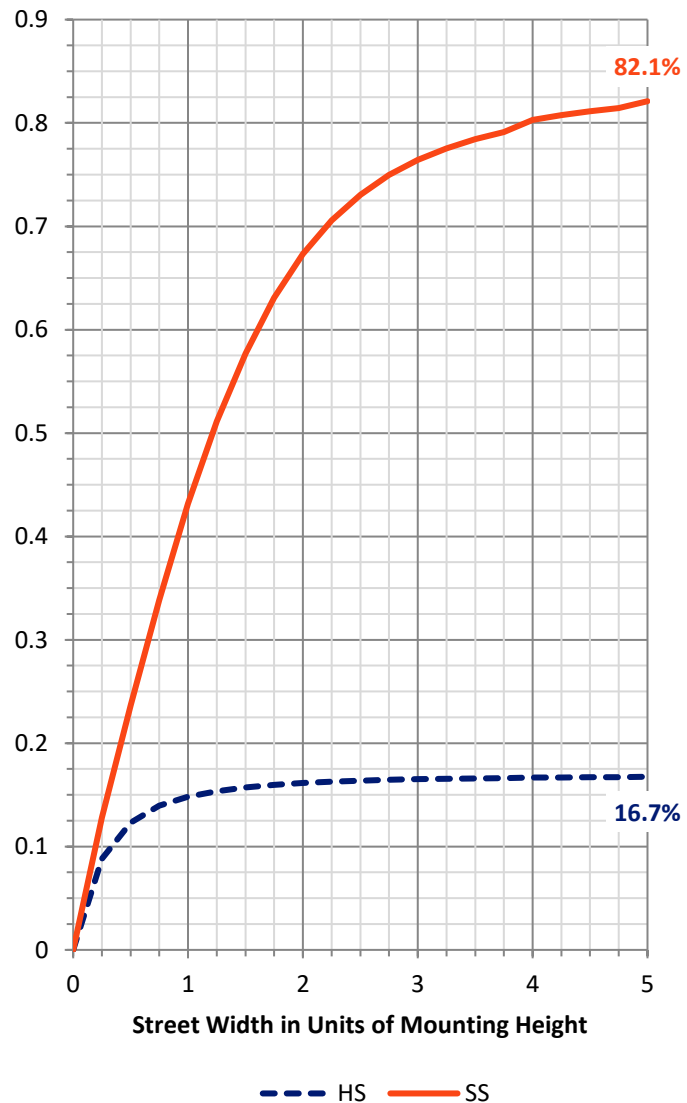
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2400.4	0.0	2400.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	11801.6	0.0	11801.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	14202.0	0.0	14202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.5	2.4
10°-20°	701.9	4.9
20°-30°	1010.0	7.1
30°-40°	1454.7	10.2
40°-50°	2043.4	14.4
50°-60°	2849.8	20.1
60°-70°	3388.3	23.9
70°-80°	1995.5	14.1
80°-90°	422.0	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°	14202.0	100.0
0°-180°	14202.0	100.0

Coefficient of Utilization



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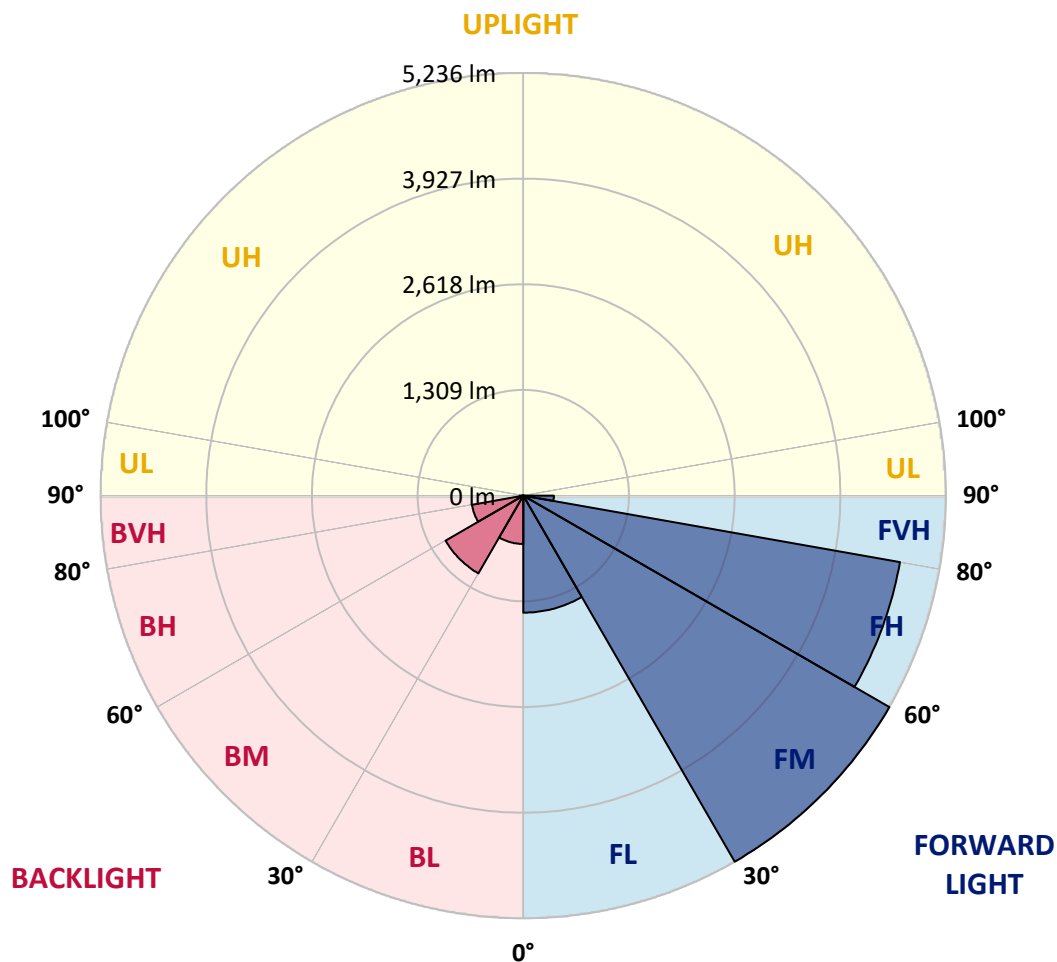
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1449.6	10.2			
FM	(30°-60°)	5235.8	36.9			
FH	(60°-80°)	4737.8	33.4			G2/5000
FVH	(80°-90°)	378.3	2.7			G3/500
BL	(0°-30°)	598.7	4.2	B2/1000		
BM	(30°-60°)	1112.1	7.8	B2/2500		
BH	(60°-80°)	645.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	43.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0
2.5°	4784.0	4790.4	4831.4	4950.7	5032.7	5062.7	5083.7	5044.5	5006.2	4913.3	4773.1
5°	4769.5	4806.8	4913.3	5181.1	5392.4	5483.5	5510.8	5393.3	5199.3	4960.7	4673.8
7.5°	4490.8	4540.9	4704.8	5153.8	5526.3	5739.4	5711.1	5498.9	5149.2	4723.9	4323.2
10°	4160.2	4215.7	4413.4	4956.2	5436.1	5729.4	5729.4	5470.7	5006.2	4500.8	4039.1
12.5°	3897.9	3956.2	4182.0	4753.1	5248.5	5526.3	5572.7	5350.5	4903.3	4359.6	3852.4
15°	3811.4	3867.8	4111.0	4630.1	5050.0	5219.4	5234.8	5162.0	4853.2	4369.6	3844.2
17.5°	3918.8	3991.7	4237.6	4666.5	4867.8	4877.8	4889.7	4947.0	4858.7	4552.7	4009.9
20°	4229.4	4307.7	4564.5	4784.0	4708.4	4604.6	4611.0	4758.5	4923.4	4855.1	4406.1
22.5°	4677.5	4745.8	5009.0	4990.8	4641.0	4427.0	4382.4	4588.2	5019.0	5232.1	4827.7
25°	5161.1	5241.2	5543.6	5297.7	4660.2	4321.4	4293.1	4488.0	5118.3	5584.6	5315.0
27.5°	5714.8	5793.1	6031.7	5607.3	4760.3	4313.2	4279.5	4478.9	5207.5	5910.6	5780.4
30°	6126.4	6198.4	6360.5	5867.8	4883.3	4367.8	4325.9	4550.9	5284.0	6133.7	6233.9
32.5°	6449.7	6524.4	6612.8	6029.9	5045.4	4467.1	4389.7	4682.0	5384.2	6304.0	6570.0
35°	6786.7	6875.0	6868.7	6173.8	5196.6	4581.8	4506.3	4871.5	5541.7	6452.5	6996.2
37.5°	7213.8	7249.4	7203.8	6303.1	5377.8	4788.6	4746.7	5152.9	5765.8	6631.9	7494.3
40°	7647.3	7718.4	7484.3	6459.8	5598.2	5177.5	5172.9	5569.1	6031.7	6842.3	7977.0
42.5°	8018.9	8079.0	7746.6	6596.4	5865.1	5651.9	5686.6	6127.3	6380.5	7086.3	8365.0
45°	8298.5	8352.2	7988.9	6728.4	6216.6	6200.2	6404.2	6725.7	6820.4	7305.8	8592.7
47.5°	8536.2	8588.1	8157.3	6928.8	6651.0	6855.0	7210.2	7349.5	7196.5	7431.5	8847.7
50°	8736.6	8752.0	8273.0	7167.4	7190.2	7657.4	8001.6	8091.8	7568.1	7611.8	9069.0
52.5°	8945.1	8925.1	8472.5	7467.9	7773.0	8418.7	8669.2	8763.0	7924.2	7834.0	9391.4
55°	9412.3	9431.4	8919.6	7846.8	8362.3	9166.4	9496.1	9405.9	8318.5	8243.0	9801.2
57.5°	9977.0	9960.6	9548.9	8439.7	8962.4	9862.2	10108.1	9963.3	8844.9	8804.9	10216.5
60°	10196.5	10218.3	10075.3	9077.2	9554.4	10471.5	10722.8	10497.9	9476.1	9457.9	10529.8
62.5°	9976.1	10099.0	10195.5	9644.6	10058.9	10919.6	11169.1	10912.3	10134.5	10266.6	10749.3
65°	9537.1	9563.5	9892.3	10125.4	10302.1	10993.3	11123.6	10987.0	10684.6	11003.4	10739.2
67.5°	8967.0	8989.7	9375.0	10283.0	9988.8	10155.5	10246.5	10206.5	10514.3	11255.6	10244.7
70°	8424.2	8406.0	8813.1	9881.3	8695.6	8442.4	8518.0	8392.3	9072.6	10639.1	9274.8
72.5°	7367.7	7433.3	7870.5	8764.8	6885.1	6473.4	6638.3	6313.1	6978.0	9111.8	7528.0
75°	5771.2	5786.7	6516.2	7355.9	5193.9	4544.5	4767.6	4631.9	5345.0	7600.9	5198.4
77.5°	3996.3	3961.6	4745.8	5618.2	3703.9	3326.9	3330.5	3265.9	3732.1	5596.4	3531.8
80°	2538.2	2485.4	2970.8	3470.8	2545.5	2723.1	2633.8	2631.1	2429.8	3452.5	2135.6
82.5°	1371.5	1429.8	1877.0	2175.7	1826.0	2104.7	1928.9	1872.4	1667.5	2161.1	1366.1
85°	624.8	679.4	1000.9	1479.9	1387.0	1402.5	937.1	1105.6	1379.7	1755.0	729.5
87.5°	61.0	78.3	206.7	698.5	473.6	373.4	139.3	268.7	347.0	623.8	58.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0
2.5°	4715.7	4668.4	4507.2	4374.2	4233.0	4125.6	3985.3	3891.5	3826.9	3729.4	3717.6
5°	4499.0	4383.3	4102.8	3816.8	3570.0	3384.2	3195.7	3022.7	2920.7	2888.8	2847.8
7.5°	4133.8	3938.9	3578.2	3250.4	2967.1	2690.3	2477.2	2326.0	2224.9	2165.7	2094.7
10°	3833.2	3607.4	3168.4	2766.8	2533.6	2361.5	2173.9	2011.8	1887.0	1780.5	1722.2
12.5°	3631.1	3376.0	2882.4	2556.4	2376.1	2193.0	1973.5	1791.4	1607.4	1486.3	1434.4
15°	3570.0	3300.5	2794.1	2451.7	2193.0	1953.5	1707.6	1469.9	1287.8	1173.0	1134.8
17.5°	3719.4	3393.4	2793.2	2312.3	1978.1	1692.1	1377.0	1153.9	967.2	881.6	854.3
20°	3998.1	3571.9	2801.4	2174.8	1744.9	1342.4	1001.8	818.7	729.5	693.1	679.4
22.5°	4387.0	3844.2	2826.0	2039.1	1489.9	1030.9	750.4	657.5	625.7	619.3	616.6
25°	4866.0	4181.1	2908.8	1917.1	1275.0	786.9	627.5	585.6	567.4	561.0	560.1
27.5°	5306.8	4616.5	3009.0	1812.3	1067.4	678.5	567.4	531.9	513.6	512.7	514.6
30°	5704.8	4980.7	3092.8	1694.9	909.8	602.9	528.2	492.7	475.4	474.5	480.0
32.5°	6049.0	5280.4	3154.7	1579.2	822.4	556.5	492.7	454.5	439.9	437.1	439.9
35°	6417.0	5579.1	3126.5	1489.0	772.3	518.2	466.3	429.0	411.6	403.5	403.5
37.5°	6836.8	5886.9	3078.2	1414.4	749.5	486.3	443.5	407.1	389.8	381.6	380.7
40°	7294.9	6194.7	3011.8	1347.9	726.8	467.2	428.0	389.8	368.8	360.6	358.8
42.5°	7699.2	6457.9	2957.1	1304.2	689.4	470.8	414.4	377.0	350.6	339.7	338.8
45°	8050.8	6723.0	2947.1	1278.7	658.5	465.4	410.7	367.0	336.1	324.2	322.4
47.5°	8325.8	6998.9	3004.5	1264.1	624.8	436.2	434.4	360.6	323.3	310.6	308.7
50°	8661.0	7390.5	3135.6	1234.0	593.8	408.9	459.0	359.7	313.3	296.9	292.3
52.5°	9107.2	7900.5	3313.2	1180.3	549.2	383.4	438.1	359.7	301.4	285.1	279.6
55°	9782.1	8550.8	3487.2	1104.7	486.3	349.7	395.3	348.8	284.1	269.6	265.9
57.5°	10229.2	9026.2	3598.3	1000.0	408.0	325.1	340.6	331.5	266.8	251.4	251.4
60°	10252.0	9153.7	3545.4	867.9	358.8	302.4	296.0	334.2	251.4	235.0	233.1
62.5°	9989.7	8841.3	3270.4	749.5	332.4	277.8	267.8	293.3	235.9	219.5	216.8
65°	9579.9	8044.4	2793.2	693.1	317.8	255.9	241.3	240.4	219.5	204.0	200.4
67.5°	8826.7	7029.9	2295.0	660.3	310.6	231.3	217.7	213.1	200.4	187.6	185.8
70°	7716.6	5887.8	1840.6	646.6	306.9	205.8	194.9	189.4	178.5	168.5	167.6
72.5°	6003.5	4775.8	1519.1	637.5	305.1	182.1	170.3	163.0	156.6	147.5	147.5
75°	4312.3	3513.6	1159.3	574.7	282.3	156.6	143.9	139.3	130.2	122.9	124.8
77.5°	2718.5	2366.1	763.2	422.6	218.6	125.7	114.8	112.0	104.7	94.7	101.1
80°	1836.0	1663.9	445.3	265.9	137.5	92.0	88.3	87.4	79.2	68.3	69.2
82.5°	1249.5	1225.8	231.3	151.2	79.2	53.7	51.9	53.7	44.6	36.4	36.4
85°	488.1	666.6	109.3	59.2	25.5	8.2	11.8	12.8	7.3	3.6	4.6
87.5°	9.1	68.3	2.7	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°	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0
2.5°	3699.4	3691.2	3704.8	3646.5	3658.4	3680.2	3691.2	3697.5	3787.7	3766.7	3824.1
5°	2886.1	2877.9	2930.7	2938.0	2965.3	2959.8	2986.3	2992.6	3025.4	3037.3	3117.4
7.5°	2099.2	2134.7	2194.8	2225.8	2272.3	2286.8	2273.2	2306.9	2238.6	2287.7	2302.3
10°	1686.7	1643.9	1618.4	1689.4	1698.5	1765.9	1738.6	1716.7	1756.8	1758.6	1796.9
12.5°	1404.3	1312.4	1251.3	1271.4	1293.2	1322.4	1326.9	1370.6	1399.8	1427.1	1449.9
15°	1101.1	1069.2	1013.6	986.3	1017.3	1029.1	1057.3	1093.8	1124.7	1132.9	1163.9
17.5°	845.2	850.6	841.5	825.1	844.2	853.3	855.2	856.1	864.3	858.8	904.3
20°	680.3	699.4	722.2	725.8	732.2	736.8	728.6	697.6	698.5	717.6	732.2
22.5°	615.6	619.3	644.8	653.0	673.0	664.8	641.1	626.6	624.8	629.3	636.6
25°	564.6	570.1	588.3	601.1	616.6	602.0	584.7	571.0	569.2	573.8	581.0
27.5°	519.1	527.3	543.7	556.5	571.0	557.4	541.0	529.1	528.2	527.3	531.9
30°	482.7	491.8	503.6	518.2	528.2	516.4	500.9	494.5	493.6	491.8	493.6
32.5°	446.3	460.8	472.7	480.0	490.0	480.9	469.0	465.4	459.0	453.5	450.8
35°	405.3	420.8	439.0	448.1	458.1	449.0	440.8	425.3	414.4	413.5	415.3
37.5°	381.6	388.0	402.5	418.0	428.0	423.5	408.0	392.5	389.8	389.8	391.6
40°	360.6	363.4	369.8	389.8	408.0	394.3	375.2	370.7	370.7	369.8	370.7
42.5°	339.7	342.4	342.4	357.9	387.1	365.2	350.6	350.6	350.6	351.5	354.3
45°	320.6	321.5	320.6	331.5	358.8	340.6	330.6	333.3	335.1	337.0	338.8
47.5°	304.2	305.1	304.2	313.3	326.9	319.7	314.2	317.8	321.5	324.2	326.0
50°	289.6	288.7	290.5	296.0	302.4	304.2	300.5	306.0	307.8	311.5	316.0
52.5°	276.9	275.9	277.8	280.5	289.6	289.6	289.6	294.2	297.8	301.4	307.8
55°	262.3	263.2	265.9	269.6	281.4	279.6	280.5	284.1	287.8	293.3	296.9
57.5°	248.6	250.4	254.1	259.6	271.4	270.5	271.4	273.2	277.8	280.5	284.1
60°	233.1	236.8	241.3	245.0	256.8	255.9	260.5	264.1	266.8	266.8	268.7
62.5°	217.7	223.1	227.7	230.4	243.2	244.1	250.4	253.2	255.0	253.2	255.9
65°	202.2	210.4	212.2	215.8	228.6	229.5	236.8	243.2	241.3	239.5	244.1
67.5°	186.7	196.7	195.8	200.4	213.1	214.9	221.3	232.2	228.6	226.8	230.4
70°	169.4	176.7	177.6	180.3	197.6	194.9	204.9	214.9	212.2	213.1	213.1
72.5°	150.3	156.6	156.6	162.1	180.3	175.8	184.0	194.9	194.9	194.0	194.0
75°	127.5	131.1	134.8	143.0	162.1	156.6	162.1	172.1	173.9	172.1	172.1
77.5°	102.9	108.4	110.2	121.1	134.8	133.9	139.3	143.9	147.5	145.7	145.7
80°	72.9	78.3	85.6	97.4	105.6	108.4	111.1	114.8	116.6	116.6	118.4
82.5°	41.0	49.2	55.6	67.4	71.0	84.7	83.8	86.5	83.8	73.8	82.0
85°	9.1	17.3	24.6	31.0	35.5	49.2	51.9	58.3	48.3	44.6	44.6
87.5°	0.0	0.0	0.0	0.0	0.0	7.3	14.6	20.0	17.3	14.6	14.6
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-SA4A-730-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0	4437.0
2.5°	3872.4	3951.6	4047.3	4212.1	4327.8	4452.5	4578.2	4712.1	4747.6	4784.0
5°	3139.3	3295.0	3379.7	3601.0	3833.2	4128.3	4369.6	4633.8	4744.0	4769.5
7.5°	2377.9	2483.5	2705.8	2929.8	3217.6	3527.2	3897.0	4308.6	4437.0	4490.8
10°	1885.2	2029.1	2224.0	2464.4	2716.7	3050.0	3467.1	3948.0	4130.1	4160.2
12.5°	1604.7	1765.0	1977.2	2231.3	2469.9	2721.2	3142.0	3638.3	3833.2	3897.9
15°	1283.2	1477.2	1722.2	1989.9	2249.5	2524.5	2950.7	3510.8	3735.8	3811.4
17.5°	1008.2	1164.8	1429.8	1720.4	2028.2	2376.1	2910.7	3571.9	3848.7	3918.8
20°	771.4	883.4	1106.5	1413.4	1774.1	2229.4	2920.7	3802.3	4133.8	4229.4
22.5°	666.6	724.0	859.7	1152.1	1555.5	2101.9	2961.7	4118.3	4518.1	4677.5
25°	603.8	633.9	710.4	901.6	1347.0	1978.1	3055.5	4543.6	5055.4	5161.1
27.5°	550.1	571.9	619.3	756.8	1157.5	1863.3	3164.8	5015.3	5557.2	5714.8
30°	499.1	528.2	572.8	672.1	1036.4	1758.6	3302.3	5397.9	5979.8	6126.4
32.5°	459.9	489.1	530.0	612.9	933.5	1648.4	3384.2	5733.9	6325.0	6449.7
35°	428.0	452.6	495.4	565.6	855.2	1564.6	3367.9	6000.8	6659.2	6786.7
37.5°	405.3	426.2	469.0	520.9	796.0	1477.2	3359.7	6353.2	7066.3	7213.8
40°	384.3	406.2	445.3	491.8	736.8	1374.3	3364.2	6702.9	7499.8	7647.3
42.5°	367.9	392.5	424.4	483.6	675.8	1291.4	3364.2	7007.1	7876.8	8018.9
45°	354.3	380.7	411.6	482.7	627.5	1228.6	3341.4	7268.5	8177.4	8298.5
47.5°	342.4	371.6	416.2	466.3	615.6	1183.0	3321.4	7477.9	8422.4	8536.2
50°	334.2	368.8	442.6	447.2	619.3	1169.4	3417.9	7742.1	8638.2	8736.6
52.5°	327.9	369.8	441.7	418.9	612.9	1178.5	3619.2	8154.6	8937.8	8945.1
55°	315.1	368.8	418.9	387.1	586.5	1194.0	3877.9	8753.9	9406.9	9412.3
57.5°	302.4	358.8	388.9	359.7	532.8	1194.0	4189.3	9321.2	9972.4	9977.0
60°	289.6	373.4	341.5	336.1	462.6	1172.1	4518.1	9570.8	10150.0	10196.5
62.5°	276.9	376.1	305.1	315.1	411.6	1119.3	4763.1	9294.8	9909.6	9976.1
65°	262.3	303.3	281.4	293.3	385.2	1030.9	4685.7	8789.4	9457.9	9537.1
67.5°	245.0	256.8	255.9	270.5	376.1	900.7	4277.7	8150.1	8971.5	8967.0
70°	224.0	230.4	233.1	248.6	358.8	799.6	3564.6	7320.4	8322.2	8424.2
72.5°	202.2	207.6	210.4	224.0	341.5	742.2	2766.8	6177.4	7208.4	7367.7
75°	178.5	182.1	185.8	197.6	323.3	657.5	1970.8	4715.7	5520.8	5771.2
77.5°	153.9	153.9	158.5	170.3	272.3	542.8	1322.4	3307.7	3740.3	3996.3
80°	124.8	125.7	123.9	136.6	200.4	371.6	751.3	2209.4	2489.0	2538.2
82.5°	95.6	92.9	93.8	100.2	149.4	253.2	400.7	1372.5	1398.9	1371.5
85°	60.1	60.1	58.3	65.6	95.6	132.1	218.6	840.6	656.6	624.8
87.5°	24.6	20.0	22.8	26.4	45.5	53.7	85.6	173.0	66.5	61.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)