

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: P453945

Luminaire Tested: **GLAN-SA5A-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14978 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 154
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

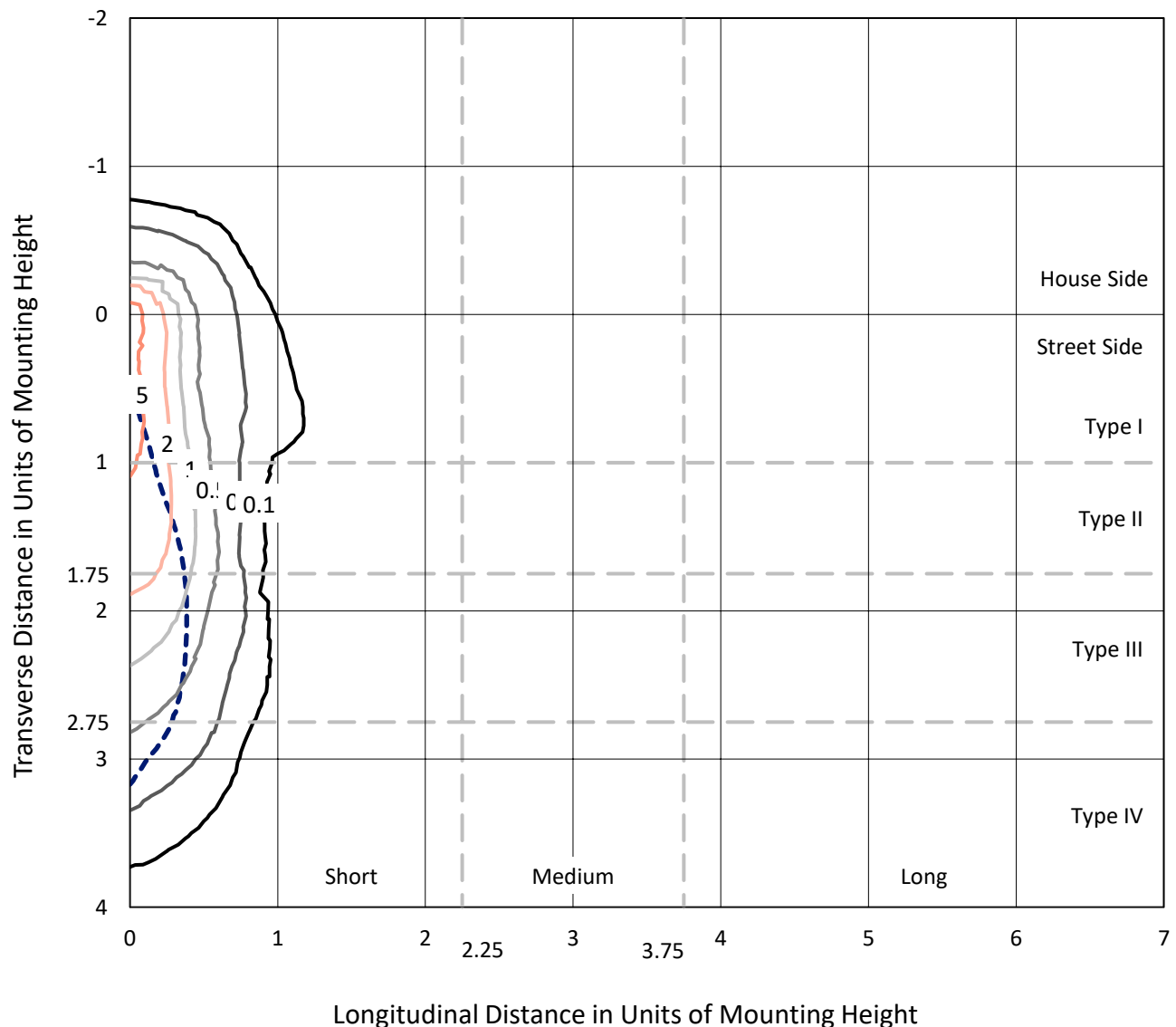


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Iso-Footcandle Lines of Horizontal Illumination

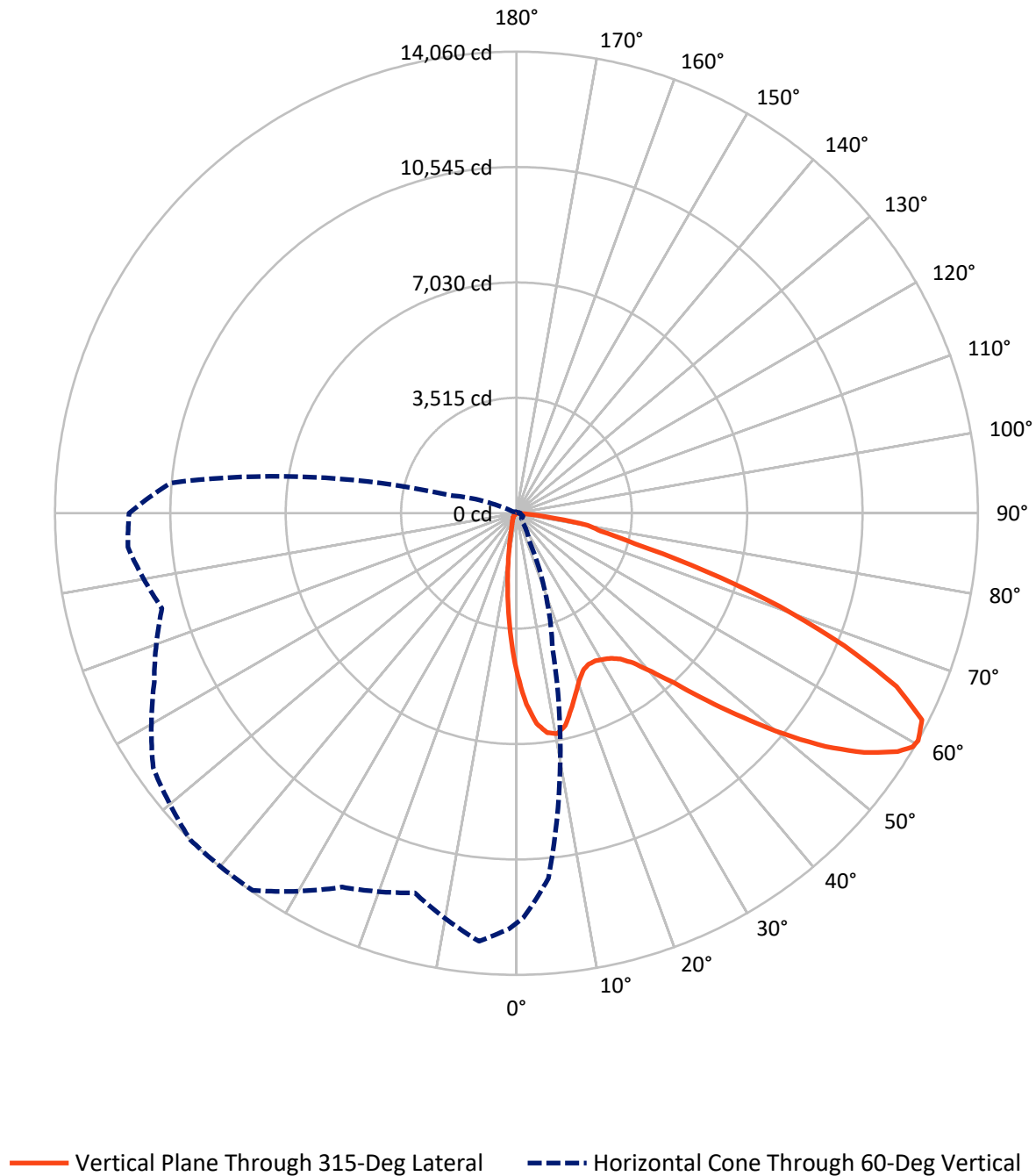
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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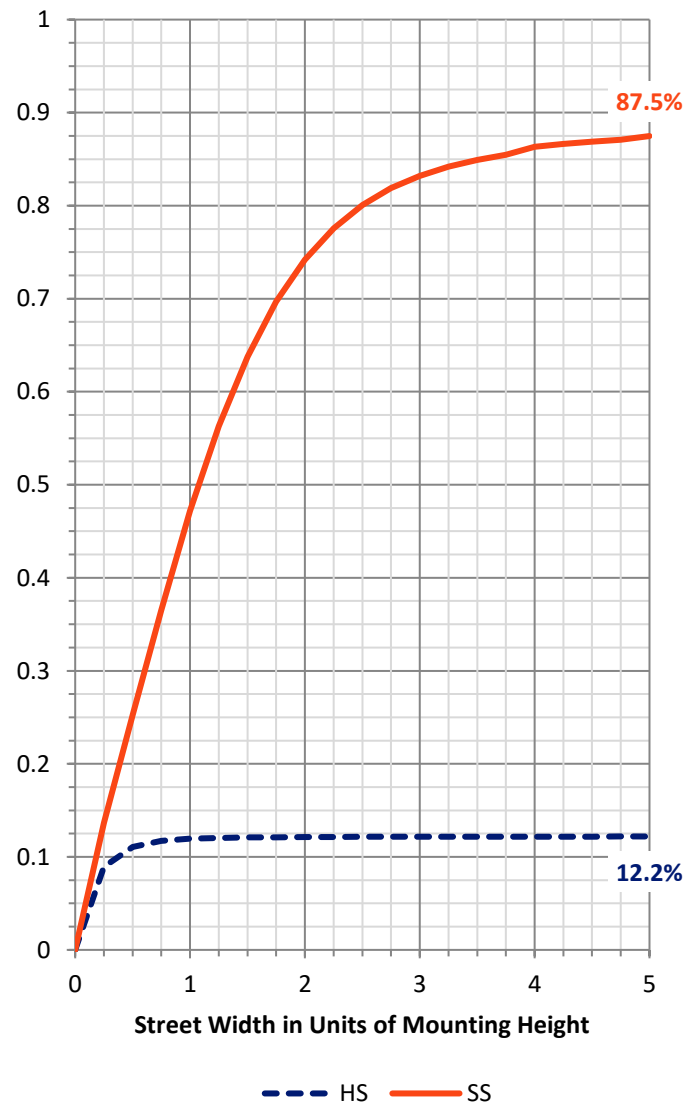
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1847.4	0.0	1847.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	13130.6	0.0	13130.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	14978.0	0.0	14978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.2	2.5
10°-20°	731.2	4.9
20°-30°	1072.2	7.2
30°-40°	1594.5	10.6
40°-50°	2320.6	15.5
50°-60°	3346.4	22.3
60°-70°	3680.7	24.6
70°-80°	1648.7	11.0
80°-90°	215.4	1.4
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°	14978.0	100.0
0°-180°	14978.0	100.0

Coefficient of Utilization



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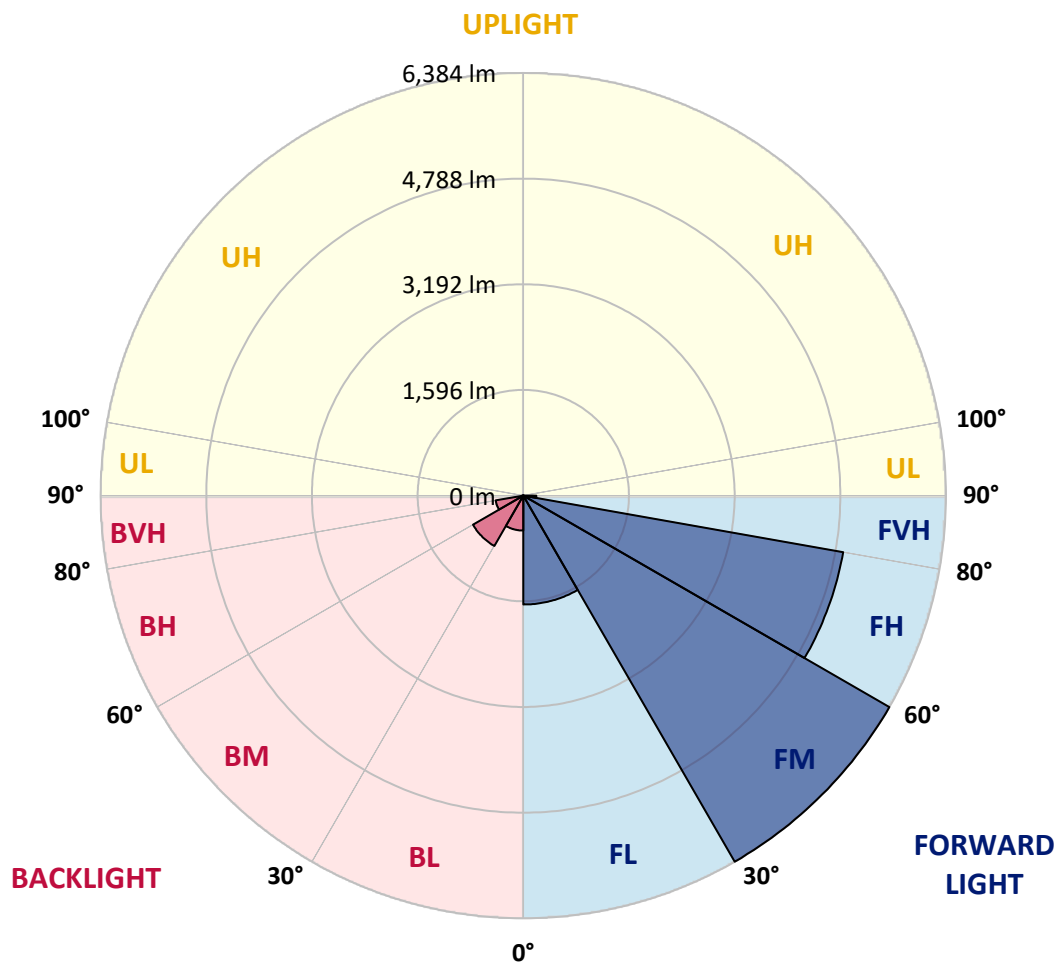
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1643.8	11.0			
FM	(30°-60°)	6384.1	42.6			
FH	(60°-80°)	4905.7	32.8			G2/5000
FVH	(80°-90°)	197.0	1.3			G2/225
BL	(0°-30°)	527.9	3.5	B2/1000		
BM	(30°-60°)	877.5	5.9	B1/1000		
BH	(60°-80°)	423.6	2.8	B1/500		G1/500
BVH	(80°-90°)	18.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4
2.5°	5442.3	5418.4	5363.7	5197.5	5052.9	4863.9	4672.6	4522.3	4430.1	4260.5	4183.1
5°	5272.7	5284.0	5125.8	4784.2	4403.9	4144.3	3860.8	3635.4	3387.2	3230.1	3065.0
7.5°	4829.8	4807.0	4635.1	4159.1	3696.9	3321.2	2962.5	2671.1	2487.7	2340.9	2217.9
10°	4450.6	4433.5	4213.8	3601.3	3104.8	2823.6	2581.1	2326.1	2129.1	1913.9	1742.0
12.5°	4212.7	4173.9	3921.2	3281.3	2877.1	2615.3	2351.1	2085.8	1813.7	1596.3	1387.9
15°	4133.0	4077.2	3795.9	3170.9	2731.4	2398.9	2067.6	1762.5	1449.4	1209.1	1052.0
17.5°	4277.6	4185.3	3885.9	3151.5	2557.2	2116.6	1709.0	1311.6	986.0	802.7	705.9
20°	4608.9	4503.0	4113.6	3132.2	2363.6	1800.1	1299.1	926.8	682.0	581.8	528.3
22.5°	5100.7	4955.0	4450.6	3162.9	2184.9	1491.5	938.2	654.7	542.0	479.3	441.8
25°	5691.6	5569.8	4877.6	3272.2	2043.7	1249.0	725.3	535.1	456.6	417.9	389.4
27.5°	6339.5	6144.8	5429.8	3403.1	1915.1	1061.1	636.5	478.2	406.5	371.2	356.4
30°	6800.6	6649.2	5892.0	3494.2	1754.5	920.0	581.8	471.4	407.6	365.5	338.2
32.5°	7256.0	7062.5	6279.1	3536.4	1637.2	822.0	503.2	411.0	357.5	335.9	308.5
35°	7743.3	7540.7	6665.1	3513.6	1549.6	757.1	456.6	366.6	306.3	269.8	242.5
37.5°	8236.3	8022.3	7048.8	3431.6	1494.9	731.0	420.1	348.4	289.2	251.6	222.0
40°	8821.5	8535.8	7408.6	3364.4	1438.0	717.3	396.2	337.0	276.7	236.8	207.2
42.5°	9299.7	9027.6	7749.0	3329.1	1399.3	685.4	396.2	327.9	268.7	224.3	193.6
45°	9752.9	9470.5	8116.8	3357.6	1383.3	645.6	400.8	326.8	263.0	215.2	184.4
47.5°	10132.0	9887.2	8494.8	3464.6	1362.9	602.3	376.9	342.7	259.6	207.2	175.3
50°	10579.5	10342.6	8994.6	3681.0	1326.4	559.0	347.3	368.9	258.5	200.4	167.4
52.5°	11210.2	10954.1	9684.6	3926.9	1268.4	493.0	319.9	365.5	253.9	189.0	159.4
55°	11981.0	11773.8	10483.8	4221.8	1188.7	419.0	276.7	324.5	240.2	169.6	145.7
57.5°	12475.2	12298.7	11082.7	4349.3	1066.8	342.7	243.7	272.1	219.7	151.4	129.8
59°	12533.2	12373.8	11207.9	4307.2	987.1	313.1	227.7	233.4	214.0	141.2	120.7
60°	12484.3	12319.2	11157.9	4225.2	913.1	292.6	214.0	207.2	215.2	135.5	113.9
62.5°	12170.0	11887.7	10671.7	3809.6	798.1	268.7	190.1	169.6	190.1	121.8	101.3
65°	11563.2	11139.6	9709.6	3224.4	752.6	255.0	161.7	142.3	144.6	107.0	87.7
67.5°	10503.2	9969.2	8428.7	2619.8	733.2	256.2	136.6	127.5	111.6	91.1	77.4
70°	8827.2	8294.4	6763.0	2155.3	724.1	256.2	116.1	109.3	93.4	76.3	67.2
72.5°	6255.2	5681.4	4562.2	1693.0	652.4	255.0	99.1	99.1	76.3	63.8	54.7
75°	3534.1	3538.6	2868.0	1197.8	542.0	210.6	79.7	78.6	55.8	49.0	41.0
77.5°	2059.6	2023.2	1933.3	514.6	251.6	95.6	55.8	47.8	38.7	35.3	29.6
80°	1058.9	871.0	848.2	186.7	89.9	60.3	38.7	27.3	25.0	22.8	20.5
82.5°	313.1	314.2	280.1	75.1	50.1	39.8	19.4	14.8	13.7	12.5	12.5
85°	21.6	13.7	15.9	22.8	30.7	15.9	1.1	3.4	3.4	4.6	5.7
87.5°	2.3	1.1	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°	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4
2.5°	4097.7	4147.8	4054.4	4056.7	3979.3	4004.3	3913.2	3942.8	3889.3	3930.3	4051.0
5°	3083.2	3094.6	3019.5	2995.5	3006.9	3053.6	3071.8	2988.7	3024.0	2954.6	2950.0
7.5°	2172.4	2186.0	2142.8	2137.1	2219.0	2199.7	2235.0	2149.6	2068.8	2104.1	2039.2
10°	1687.3	1630.4	1541.6	1516.6	1500.6	1510.9	1510.9	1433.4	1422.1	1391.3	1438.0
12.5°	1332.1	1262.7	1178.4	1064.6	1036.1	1033.8	991.7	923.4	901.7	875.5	914.3
15°	967.8	939.3	868.7	805.0	740.1	727.5	659.2	603.4	529.4	519.2	515.8
17.5°	680.9	638.7	637.6	601.2	563.6	538.5	474.8	411.0	382.6	379.1	379.1
20°	510.1	495.3	471.4	466.8	455.4	427.0	370.0	335.9	322.2	323.4	327.9
22.5°	429.2	419.0	397.4	387.1	382.6	357.5	315.4	292.6	285.8	285.8	286.9
25°	383.7	374.6	350.7	334.7	329.0	310.8	277.8	260.7	255.0	255.0	255.0
27.5°	349.5	338.2	313.1	299.4	289.2	268.7	248.2	231.1	225.4	225.4	226.6
30°	325.6	313.1	290.3	272.1	256.2	238.0	220.9	206.1	199.2	198.1	199.2
32.5°	293.7	282.4	259.6	248.2	230.0	208.4	194.7	181.0	174.2	175.3	174.2
35°	228.8	225.4	209.5	212.9	202.7	184.4	171.9	157.1	149.2	148.0	150.3
37.5°	208.4	194.7	176.5	177.6	174.2	167.4	146.9	130.9	125.2	125.2	126.4
40°	192.4	178.8	158.3	148.0	149.2	149.2	127.5	110.4	104.7	103.6	105.9
42.5°	178.8	165.1	142.3	125.2	120.7	126.4	108.2	91.1	85.4	83.1	85.4
45°	169.6	154.8	128.7	109.3	95.6	102.5	88.8	75.1	68.3	68.3	67.2
47.5°	160.5	146.9	118.4	94.5	79.7	76.3	72.9	60.3	53.5	52.4	53.5
50°	152.6	138.9	107.0	82.0	67.2	59.2	59.2	47.8	43.3	41.0	42.1
52.5°	144.6	129.8	96.8	72.9	58.1	47.8	42.1	38.7	35.3	34.2	35.3
55°	133.2	118.4	86.5	62.6	50.1	39.8	33.0	31.9	29.6	27.3	29.6
57.5°	119.5	105.9	76.3	53.5	39.8	30.7	27.3	26.2	23.9	22.8	22.8
59°	111.6	99.1	70.6	46.7	35.3	27.3	25.0	23.9	21.6	19.4	20.5
60°	107.0	96.8	67.2	43.3	31.9	25.0	22.8	21.6	19.4	18.2	19.4
62.5°	94.5	86.5	59.2	35.3	25.0	18.2	15.9	17.1	15.9	14.8	15.9
65°	83.1	76.3	50.1	27.3	19.4	12.5	11.4	14.8	13.7	12.5	13.7
67.5°	74.0	66.0	42.1	20.5	13.7	6.8	8.0	12.5	12.5	11.4	12.5
70°	63.8	56.9	34.2	14.8	6.8	3.4	5.7	9.1	11.4	10.2	11.4
72.5°	52.4	44.4	26.2	10.2	3.4	0.0	3.4	8.0	11.4	10.2	11.4
75°	41.0	33.0	19.4	5.7	0.0	0.0	1.1	6.8	11.4	10.2	11.4
77.5°	29.6	23.9	11.4	1.1	0.0	0.0	1.1	6.8	11.4	10.2	11.4
80°	19.4	17.1	4.6	0.0	0.0	0.0	1.1	6.8	11.4	11.4	12.5
82.5°	12.5	9.1	0.0	0.0	0.0	0.0	2.3	9.1	12.5	13.7	13.7
85°	5.7	0.0	0.0	0.0	0.0	0.0	4.6	11.4	14.8	14.8	14.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.3	8.0	13.7	17.1	17.1	17.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4
2.5°	4071.5	4143.2	4244.5	4400.5	4526.9	4726.1	4878.7	5087.1	5297.7	5361.5	5460.5
5°	2996.7	3088.9	3318.9	3528.4	3660.5	4081.7	4348.1	4768.3	5145.1	5326.2	5523.1
7.5°	2081.3	2190.6	2365.9	2658.5	2936.3	3279.0	3709.4	4189.9	4742.1	5000.5	5278.3
10°	1460.8	1597.4	1844.5	2084.7	2434.2	2759.9	3184.5	3715.1	4324.2	4629.4	4977.8
12.5°	922.2	1044.1	1370.8	1640.7	2076.7	2454.7	2846.4	3326.9	4032.8	4345.9	4711.3
15°	527.2	629.6	782.2	1128.3	1612.2	2112.0	2600.5	3158.4	3883.6	4269.6	4664.7
17.5°	392.8	420.1	488.4	684.3	1124.9	1709.0	2373.9	3107.1	3984.9	4438.1	4889.0
20°	330.2	348.4	380.3	457.7	717.3	1316.2	2153.0	3116.2	4312.9	4882.1	5310.2
22.5°	296.0	307.4	333.6	383.7	489.6	958.7	1894.6	3169.7	4710.2	5427.5	5921.6
25°	259.6	274.4	297.2	340.4	407.6	664.9	1639.5	3289.3	5267.0	6119.7	6584.3
27.5°	231.1	244.8	267.6	307.4	357.5	507.8	1342.4	3391.8	5854.5	6816.5	7196.8
30°	202.7	216.3	239.1	271.0	316.5	411.0	1022.4	3452.1	6424.9	7339.1	7631.7
32.5°	178.8	190.1	211.8	240.2	277.8	348.4	806.1	3389.5	6860.9	7813.9	8009.7
35°	154.8	168.5	186.7	212.9	245.9	297.2	670.6	3173.2	7235.5	8302.4	8372.9
37.5°	129.8	145.7	165.1	189.0	215.2	273.3	538.5	2934.1	7636.3	8911.5	8795.3
40°	109.3	124.1	142.3	168.5	192.4	250.5	414.4	2679.0	8068.9	9483.0	9256.5
42.5°	88.8	104.7	126.4	150.3	190.1	218.6	321.1	2414.9	8457.2	9980.6	9673.2
45°	70.6	84.3	107.0	137.8	189.0	187.9	248.2	2154.1	8749.8	10335.8	9984.0
47.5°	55.8	67.2	89.9	134.3	174.2	159.4	199.2	1992.5	9057.2	10655.7	10222.0
50°	44.4	55.8	77.4	140.0	152.6	136.6	167.4	2018.7	9354.4	10818.6	10319.9
52.5°	37.6	49.0	67.2	110.4	117.3	119.5	146.9	2139.3	9738.1	10992.8	10514.6
55°	33.0	43.3	56.9	77.4	91.1	107.0	134.3	2227.0	10251.6	11366.2	10943.8
57.5°	26.2	37.6	51.2	66.0	75.1	93.4	124.1	2233.8	10716.1	11845.5	11514.2
59°	23.9	34.2	47.8	62.6	67.2	84.3	117.3	2175.8	10733.2	11917.3	11776.1
60°	21.6	33.0	45.5	58.1	63.8	79.7	111.6	2108.6	10578.3	11803.4	11884.3
62.5°	18.2	28.5	39.8	46.7	54.7	66.0	96.8	1865.0	9828.0	11287.6	11683.9
65°	15.9	25.0	34.2	38.7	45.5	56.9	85.4	1492.6	8999.1	10588.6	11110.0
67.5°	14.8	22.8	29.6	33.0	39.8	52.4	76.3	1054.3	7925.5	9701.6	10248.1
70°	13.7	21.6	26.2	30.7	35.3	44.4	64.9	614.8	6104.9	8146.4	8723.6
72.5°	13.7	20.5	22.8	26.2	30.7	39.8	60.3	332.5	4173.9	6214.2	6960.0
75°	13.7	19.4	20.5	22.8	27.3	36.4	53.5	174.2	2698.4	4317.4	5328.4
77.5°	13.7	18.2	20.5	21.6	26.2	31.9	46.7	109.3	1797.8	3024.0	3601.3
80°	14.8	18.2	19.4	21.6	25.0	29.6	38.7	72.9	1056.6	1819.4	2191.7
82.5°	15.9	18.2	20.5	22.8	26.2	28.5	34.2	45.5	487.3	1203.5	1361.7
85°	17.1	19.4	21.6	23.9	27.3	28.5	31.9	33.0	79.7	543.1	734.4
87.5°	18.2	20.5	22.8	25.0	29.6	29.6	29.6	29.6	27.3	58.1	148.0
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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CATALOG NUMBER: GLAN-SA5A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4	4950.4
2.5°	5585.8	5714.4	5804.4	5827.1	5762.2	5732.6	5650.7	5523.1	5445.7	5442.3
5°	5886.3	6188.1	6397.5	6432.8	6307.6	6095.8	5844.2	5519.7	5329.6	5272.7
7.5°	5835.1	6363.4	6700.4	6749.4	6538.7	6134.5	5647.2	5124.6	4917.4	4829.8
10°	5624.5	6268.9	6750.5	6827.9	6546.7	5977.4	5358.0	4775.1	4517.8	4450.6
12.5°	5444.6	6095.8	6523.9	6631.0	6418.0	5849.9	5185.0	4550.8	4275.3	4212.7
15°	5366.0	5890.9	6152.8	6207.4	6172.1	5770.2	5166.8	4516.7	4201.3	4133.0
17.5°	5444.6	5716.7	5749.7	5805.5	5884.1	5762.2	5342.1	4702.2	4361.8	4277.6
20°	5650.7	5565.3	5428.6	5452.5	5632.4	5795.3	5654.1	5113.3	4698.8	4608.9
22.5°	6001.3	5527.7	5218.0	5197.5	5425.2	5905.7	6111.8	5670.0	5189.5	5100.7
25°	6431.7	5622.2	5140.6	5096.2	5344.4	6067.4	6609.3	6352.0	5827.1	5691.6
27.5°	6900.8	5818.0	5140.6	5097.3	5337.6	6210.8	7035.1	6955.4	6487.5	6339.5
30°	7158.1	5979.7	5214.6	5165.6	5421.8	6293.9	7262.9	7491.7	6983.9	6800.6
32.5°	7388.1	6204.0	5359.2	5267.0	5598.3	6416.9	7466.7	7947.1	7379.0	7256.0
35°	7599.9	6444.2	5558.4	5451.4	5830.5	6585.4	7692.1	8425.3	7928.9	7743.3
37.5°	7833.3	6723.2	5869.3	5778.2	6218.8	6913.3	7959.6	9053.8	8469.7	8236.3
40°	8087.2	7046.5	6380.5	6341.8	6835.9	7284.5	8297.8	9724.4	9086.8	8821.5
42.5°	8345.6	7418.8	7006.7	7070.4	7535.0	7804.8	8645.1	10240.2	9592.3	9299.7
45°	8580.2	7894.7	7820.7	8136.1	8350.2	8312.6	8902.4	10603.4	10033.0	9752.9
47.5°	8876.2	8588.1	8805.6	9291.8	9297.5	8864.8	9097.1	10900.5	10412.1	10132.0
50°	9207.5	9406.8	10077.4	10572.6	10439.4	9407.9	9324.8	11252.4	10803.8	10579.5
52.5°	9591.2	10323.3	11252.4	11802.3	11491.4	9999.9	9703.9	11632.6	11425.4	11210.2
55°	10037.5	10948.4	12423.9	12862.3	12549.2	10735.4	10280.0	12148.4	12127.9	11981.0
57.5°	10541.9	11608.7	13102.5	13695.7	13416.7	11598.5	11085.0	12634.6	12557.1	12475.2
59°	10940.4	11948.0	13401.9	14016.8	13848.3	12203.0	11625.8	12937.4	12656.2	12533.2
60°	11181.8	12178.0	13512.4	14060.0	14021.3	12562.8	11968.5	13085.4	12655.1	12484.3
62.5°	11897.9	12579.9	13470.3	13867.6	14019.0	13252.8	12973.8	13248.2	12420.5	12170.0
65°	12153.0	12446.7	12772.3	12723.4	12853.2	13217.5	13616.0	13069.5	11919.5	11563.2
67.5°	11656.5	10985.9	11100.9	10774.2	10710.4	11751.0	13355.3	12195.1	10939.2	10503.2
70°	9825.7	8416.2	8358.1	8508.4	8096.3	9513.8	11992.4	10511.2	9321.4	8827.2
72.5°	7734.2	5947.8	5458.2	6011.6	5999.1	7258.3	9962.4	7458.7	6297.4	6255.2
75°	6082.2	4140.9	3634.3	3724.2	3897.3	5254.4	7934.6	4736.4	3877.9	3534.1
77.5°	4082.9	2934.1	2737.1	2626.6	2813.4	3373.5	5019.9	2568.6	2174.6	2059.6
80°	2353.4	2131.4	2420.6	2197.4	2297.6	2125.7	2496.9	1178.4	978.0	1058.9
82.5°	1531.4	1213.7	1293.4	960.9	1313.9	1325.3	801.5	348.4	294.9	313.1
85°	957.5	569.3	319.9	227.7	453.1	833.4	250.5	21.6	25.0	21.6
87.5°	248.2	94.5	39.8	59.2	72.9	64.9	58.1	3.4	1.1	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)