

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: P324428

Luminaire Tested: **GAN-SA4A-730-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 12690 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

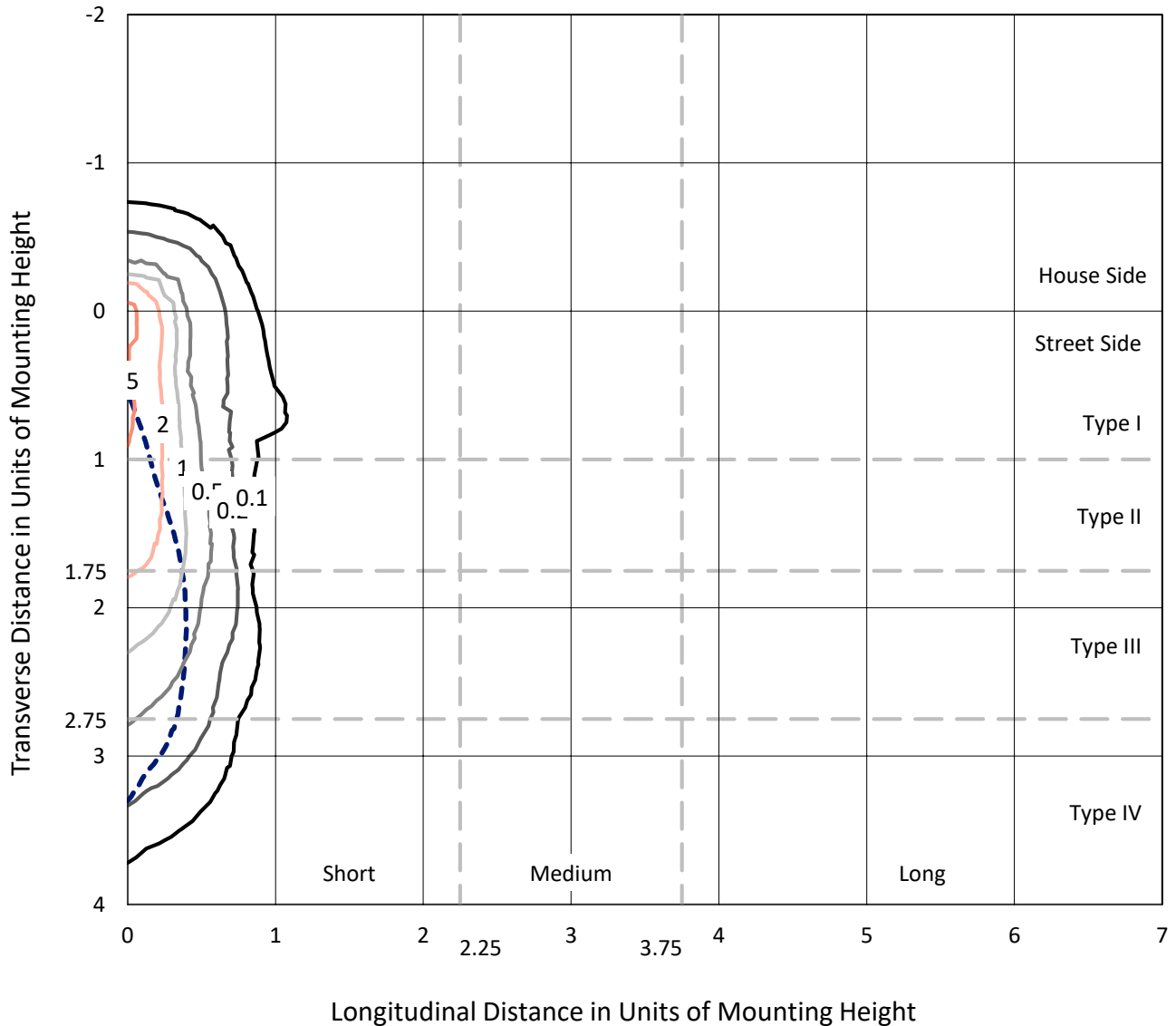
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

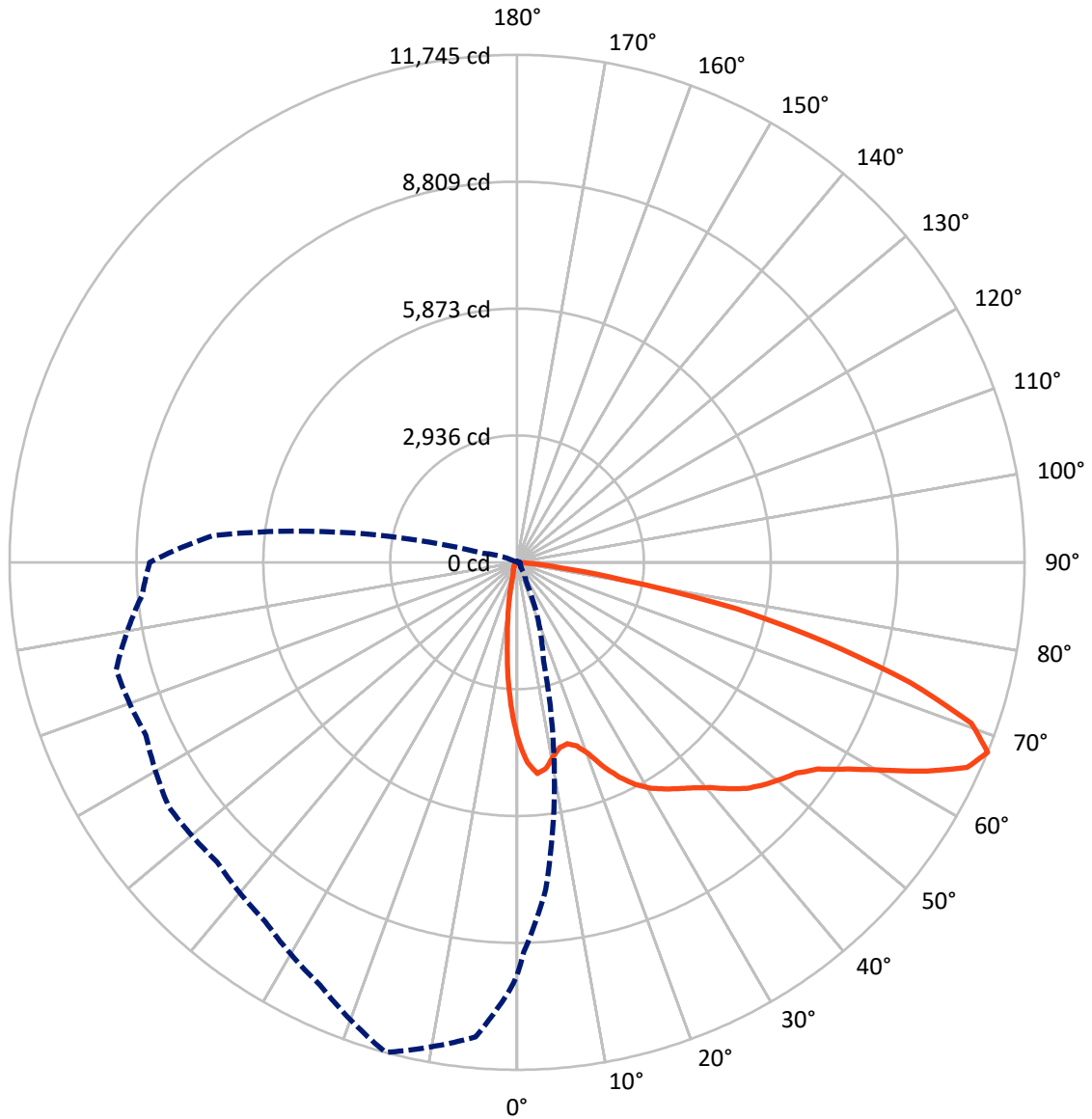
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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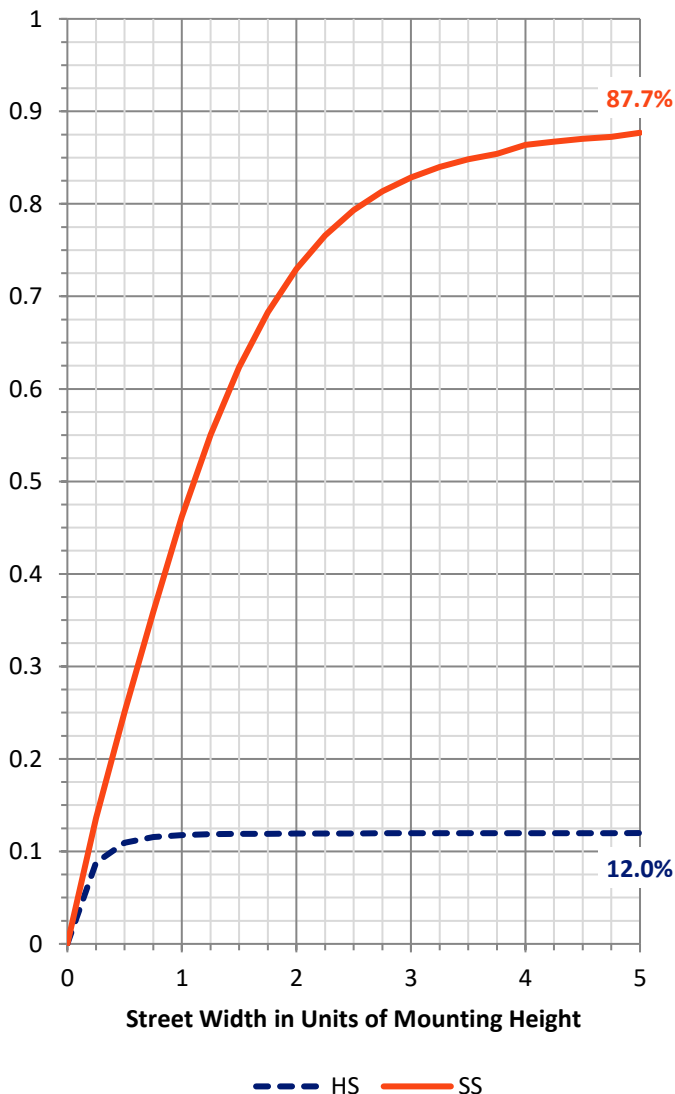
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1535.9	0.0	1535.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	11154.1	0.0	11154.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	12690.0	0.0	12690.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.3	2.5
10°-20°	631.5	5.0
20°-30°	896.7	7.1
30°-40°	1324.5	10.4
40°-50°	1910.3	15.1
50°-60°	2681.6	21.1
60°-70°	3126.0	24.6
70°-80°	1598.0	12.6
80°-90°	204.1	1.6
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°	12690.0	100.0
0°-180°	12690.0	100.0

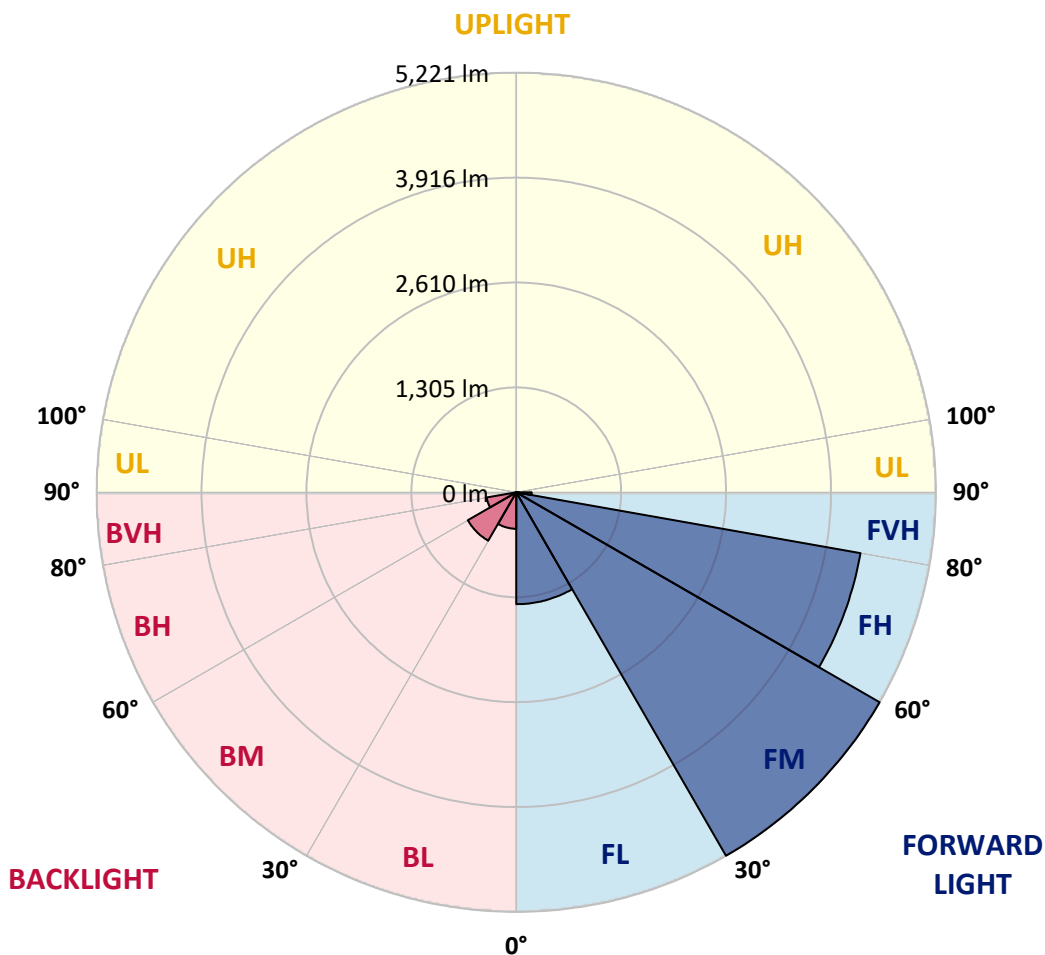


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1391.8	11.0			
FM (30°-60°)	5220.9	41.1			
FH (60°-80°)	4349.7	34.3			G2/5000
FVH (80°-90°)	191.7	1.5			G2/225
BL (0°-30°)	453.6	3.6	B1/500		
BM (30°-60°)	695.5	5.5	B1/1000		
BH (60°-80°)	374.3	2.9	B1/500		G1/500
BVH (80°-90°)	12.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7
2.5°	4526.3	4491.4	4453.0	4327.3	4210.7	4077.2	3968.4	3892.7	3797.7	3674.4	3643.2
5°	4493.9	4456.6	4335.7	4056.2	3811.5	3573.4	3343.8	3209.1	3042.0	2872.5	2830.4
7.5°	4167.4	4128.3	3954.0	3571.0	3241.6	2897.7	2599.5	2415.0	2226.2	2071.1	1988.7
10°	3827.7	3785.1	3589.1	3124.4	2718.6	2407.7	2188.9	2012.8	1834.2	1668.3	1536.0
12.5°	3593.9	3538.0	3325.2	2798.5	2445.0	2234.0	2029.6	1818.6	1576.9	1399.0	1253.5
15°	3495.9	3432.2	3207.3	2672.9	2348.2	2100.5	1834.2	1575.1	1291.9	1088.1	954.7
17.5°	3571.6	3488.7	3247.6	2664.4	2226.8	1889.5	1552.9	1248.7	941.5	735.2	640.3
20°	3828.9	3720.1	3414.1	2662.0	2079.5	1638.8	1212.0	868.1	620.4	499.0	449.1
22.5°	4234.1	4090.5	3653.4	2681.3	1927.4	1375.5	875.3	589.8	465.9	402.8	373.3
25°	4723.5	4557.0	3997.9	2749.2	1793.9	1119.4	636.1	465.9	393.2	346.9	322.2
27.5°	5188.8	5053.6	4433.1	2847.2	1690.5	912.6	516.4	395.0	336.1	305.4	285.6
30°	5653.5	5483.4	4879.8	2963.8	1566.1	772.5	453.9	360.1	301.2	268.7	256.1
32.5°	5991.4	5850.1	5229.7	3048.0	1433.2	681.1	405.8	329.4	281.4	248.3	229.7
35°	6388.8	6228.9	5529.7	3066.6	1347.9	623.4	364.9	296.4	244.1	214.6	194.8
37.5°	6818.0	6619.0	5876.0	3025.8	1281.1	595.2	334.3	281.4	227.8	197.8	176.7
40°	7293.0	7068.1	6208.4	2966.8	1215.6	585.6	310.8	269.9	215.2	184.6	162.9
42.5°	7793.2	7528.0	6496.4	2904.9	1174.1	552.5	308.4	258.5	205.6	172.5	150.9
45°	8213.4	7944.7	6792.2	2884.5	1144.7	516.4	318.6	250.7	199.0	162.9	141.9
47.5°	8548.2	8293.9	7095.2	2930.2	1127.8	483.4	290.4	260.9	195.4	154.5	134.1
50°	8948.0	8660.1	7522.0	3066.6	1103.2	450.3	262.7	298.8	195.4	149.1	127.5
52.5°	9449.4	9164.5	7998.2	3278.3	1053.9	404.6	236.3	299.4	197.2	141.9	119.0
55°	10080.1	9873.3	8678.1	3510.3	975.1	337.3	204.4	257.3	190.0	128.7	111.2
57.5°	10684.9	10515.9	9297.9	3669.0	869.9	263.3	178.0	207.4	173.7	113.0	99.2
59°	10850.2	10665.6	9525.2	3676.2	791.2	229.7	164.7	171.3	170.1	105.8	92.0
60°	10850.2	10654.2	9590.7	3637.8	734.0	211.0	156.3	152.7	177.3	101.0	87.8
62.5°	10653.6	10378.2	9377.9	3377.5	598.8	179.8	136.5	126.2	159.3	90.8	77.6
65°	10244.8	9843.8	8652.8	2906.7	533.9	164.7	117.8	103.4	110.6	80.0	67.9
67.5°	9563.0	9019.6	7607.4	2348.2	508.0	160.5	101.6	87.8	83.6	68.5	59.5
70°	8362.5	7759.5	6338.3	1846.2	485.8	158.7	85.4	73.9	67.3	57.7	50.5
72.5°	6086.4	5457.6	4499.9	1443.4	472.5	162.3	68.5	61.9	55.3	45.1	39.1
75°	3481.5	3069.6	2529.2	953.5	402.8	155.1	52.9	51.7	39.7	32.5	27.1
77.5°	1798.7	1744.0	1515.6	366.1	193.0	67.9	34.9	30.1	23.4	19.8	16.2
80°	776.1	767.7	664.3	105.8	51.1	37.9	19.8	12.6	10.8	8.4	6.6
82.5°	268.1	268.1	236.3	35.5	22.8	18.6	2.4	0.0	0.0	0.0	0.0
85°	54.1	60.7	42.7	0.0	7.8	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7
2.5°	3605.3	3532.6	3527.8	3482.1	3424.9	3399.1	3384.1	3410.5	3443.0	3446.6	3495.3
5°	2798.5	2722.2	2754.0	2672.9	2689.1	2672.9	2646.4	2651.2	2665.7	2620.6	2676.5
7.5°	1965.3	1907.6	1944.2	1922.6	1951.4	1962.9	1946.6	1922.6	1851.6	1843.2	1891.9
10°	1481.3	1415.8	1376.7	1335.8	1344.8	1363.5	1357.5	1340.0	1295.0	1297.4	1344.2
12.5°	1190.3	1117.0	1039.4	939.1	914.4	928.2	914.4	904.2	860.9	864.5	906.0
15°	903.0	842.9	761.7	681.1	637.3	641.5	603.0	575.9	548.9	516.4	541.7
17.5°	609.6	572.9	548.9	524.8	472.5	460.5	411.8	359.5	339.1	324.0	334.9
20°	431.7	411.8	402.2	401.0	370.9	355.9	308.4	275.9	265.7	262.7	269.3
22.5°	360.7	346.3	332.5	324.6	309.6	292.2	256.1	239.9	232.7	229.1	233.9
25°	313.8	303.0	288.6	275.3	269.3	250.7	224.8	212.8	208.0	204.4	206.8
27.5°	278.9	269.3	252.5	244.1	239.3	223.0	200.8	191.2	187.0	185.8	185.2
30°	251.3	242.3	226.6	217.0	208.6	194.2	181.0	171.3	167.1	165.9	164.7
32.5°	223.6	216.4	206.2	196.6	187.6	174.3	162.9	155.1	148.5	147.3	146.7
35°	188.8	181.6	176.1	175.5	167.1	154.5	146.1	135.9	130.5	128.7	129.3
37.5°	167.7	158.1	146.1	150.3	147.9	138.9	127.5	117.2	111.8	110.6	110.6
40°	154.5	144.3	130.5	123.2	130.5	128.7	110.6	100.4	95.0	94.4	93.2
42.5°	141.9	131.7	116.0	104.0	107.6	113.0	95.6	86.0	80.6	79.4	77.6
45°	132.9	122.0	104.6	90.8	83.6	95.0	81.8	69.7	66.7	64.3	63.1
47.5°	124.4	114.2	94.4	78.8	66.7	68.5	65.5	57.1	53.5	51.1	50.5
50°	117.2	106.4	85.4	67.3	55.3	50.5	52.9	45.1	42.1	39.7	38.5
52.5°	108.8	98.6	75.7	58.3	46.3	39.7	40.3	35.5	32.5	30.7	30.1
55°	102.2	92.0	67.9	51.1	40.9	32.5	28.9	27.7	25.9	24.6	24.0
57.5°	93.2	83.6	60.1	43.3	34.9	26.5	22.2	22.2	21.6	20.4	19.8
59°	87.8	79.4	55.3	39.1	31.9	22.8	19.8	20.4	19.8	18.6	18.0
60°	83.6	75.7	51.7	36.1	30.1	21.0	18.0	19.2	18.6	17.4	16.8
62.5°	73.9	68.5	44.5	30.1	26.5	16.8	15.0	16.2	16.2	15.6	15.0
65°	64.9	58.9	37.9	25.2	24.6	14.4	12.0	14.4	15.0	13.8	12.6
67.5°	56.5	50.5	33.1	20.4	22.8	11.4	9.0	12.0	16.2	12.6	11.4
70°	48.1	42.1	25.9	16.2	24.0	7.8	7.2	10.8	19.2	13.8	10.8
72.5°	37.3	32.5	18.0	12.0	25.9	5.4	5.4	9.0	21.6	15.0	10.2
75°	25.9	21.0	10.8	7.2	21.0	3.6	3.6	8.4	20.4	13.8	9.6
77.5°	15.0	11.4	3.6	0.6	10.8	0.0	0.6	6.0	14.4	8.4	4.2
80°	5.4	2.4	0.0	0.0	6.6	0.0	0.0	0.0	1.2	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7
2.5°	3507.9	3589.1	3661.8	3771.8	3902.3	4052.6	4181.8	4320.7	4451.2	4505.3	4542.5
5°	2687.9	2788.3	2905.5	3067.2	3282.5	3547.6	3795.9	4076.6	4378.4	4529.3	4671.2
7.5°	1900.3	2002.5	2148.0	2320.0	2580.3	2895.9	3220.5	3608.3	4017.1	4255.8	4490.8
10°	1366.5	1492.1	1628.0	1863.1	2127.6	2427.0	2761.2	3194.1	3649.8	3914.3	4197.5
12.5°	930.0	1073.1	1278.7	1542.0	1852.9	2146.2	2436.6	2849.6	3378.7	3640.8	3944.4
15°	557.9	637.3	854.9	1159.7	1540.8	1906.4	2224.4	2638.6	3202.5	3523.5	3839.2
17.5°	343.9	380.5	499.0	749.1	1149.5	1611.8	2047.6	2567.1	3227.8	3618.5	3956.4
20°	274.1	288.6	326.4	442.5	761.7	1287.1	1848.6	2552.6	3434.0	3914.9	4277.4
22.5°	238.1	251.9	277.1	321.6	479.1	963.7	1659.9	2565.9	3729.7	4359.2	4782.4
25°	209.8	221.8	245.9	282.6	351.1	678.7	1457.9	2624.8	4115.1	4910.5	5360.2
27.5°	187.6	197.8	220.0	253.7	301.2	473.7	1228.8	2696.3	4572.0	5474.4	5918.1
30°	167.1	176.1	196.0	227.2	261.5	364.3	977.5	2745.0	5029.5	5918.1	6316.6
32.5°	149.7	156.3	174.3	200.8	227.2	290.4	743.1	2737.2	5369.2	6287.2	6603.4
35°	131.7	138.3	153.9	176.7	197.8	239.9	584.4	2591.1	5665.0	6670.1	6931.7
37.5°	111.8	120.2	135.3	155.7	170.1	211.0	472.5	2415.0	5965.0	7107.8	7297.8
40°	95.0	103.4	116.6	138.9	147.9	200.2	363.1	2200.3	6302.2	7597.2	7699.4
42.5°	78.8	86.6	100.4	119.6	139.5	172.5	268.7	1955.1	6626.3	8015.6	8065.5
45°	63.7	71.5	86.0	105.2	149.1	143.1	208.0	1692.3	6887.8	8363.7	8379.9
47.5°	50.5	57.7	72.7	99.2	138.9	114.2	148.5	1486.1	7107.2	8635.4	8592.7
50°	39.1	45.1	60.7	113.6	121.4	94.4	112.4	1417.6	7303.8	8803.7	8693.1
52.5°	30.7	36.1	49.9	106.4	94.4	78.2	94.4	1481.9	7573.1	8943.2	8749.6
55°	24.6	30.1	39.1	60.7	64.3	66.1	80.6	1542.0	8037.8	9270.3	9083.3
57.5°	20.4	25.9	31.9	42.7	48.7	55.9	71.5	1548.7	8585.5	9813.7	9637.0
59°	18.6	23.4	28.9	37.9	42.7	51.1	67.3	1512.6	8778.5	10011.5	9923.1
60°	17.4	22.2	27.1	34.9	39.7	48.1	64.9	1478.3	8786.9	10004.3	10045.2
62.5°	15.0	19.8	24.0	29.5	33.7	40.9	58.3	1351.5	8431.0	9676.7	9971.8
65°	13.2	17.4	21.6	25.2	28.9	36.7	52.9	1120.0	7823.2	9148.2	9469.9
67.5°	12.0	15.0	19.8	22.2	25.9	32.5	46.9	798.4	7063.9	8501.9	8710.6
70°	10.8	14.4	18.0	20.4	23.4	28.3	40.3	458.7	5965.0	7555.7	7704.2
72.5°	10.2	13.8	16.2	19.2	21.0	25.2	36.7	215.8	4367.6	6052.7	6440.5
75°	9.0	12.6	15.0	18.0	19.8	22.8	31.3	103.4	2904.9	4380.2	4820.9
77.5°	5.4	10.2	13.8	16.2	17.4	19.8	25.9	59.5	1854.1	3031.8	3571.0
80°	0.0	3.6	10.2	13.8	15.0	16.8	19.8	46.9	992.0	1732.0	2078.9
82.5°	0.0	0.0	7.2	10.8	10.2	11.4	15.0	29.5	447.3	1132.0	1275.7
85°	0.0	0.0	2.4	8.4	7.2	5.4	10.2	10.2	98.0	572.9	714.8
87.5°	0.0	0.0	0.0	0.6	3.6	2.4	4.2	1.2	0.6	42.7	173.1
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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 CATALOG NUMBER: GAN-SA4A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7	4133.7
2.5°	4673.0	4717.5	4792.6	4828.1	4810.7	4736.7	4648.4	4558.2	4505.3	4526.3
5°	4960.4	5189.4	5321.7	5365.6	5292.2	5126.3	4909.3	4623.1	4521.5	4493.9
7.5°	4960.4	5391.4	5664.4	5712.5	5548.9	5223.7	4816.7	4370.0	4221.5	4167.4
10°	4786.0	5372.8	5753.3	5829.7	5601.2	5114.9	4569.6	4059.8	3883.7	3827.7
12.5°	4589.4	5221.3	5622.3	5727.5	5539.9	5006.7	4398.3	3850.0	3642.6	3593.9
15°	4468.6	5034.9	5366.8	5443.1	5363.8	4943.5	4357.4	3786.9	3542.8	3495.9
17.5°	4511.9	4890.6	5010.3	5054.8	5108.3	4921.3	4468.6	3925.1	3616.1	3571.6
20°	4674.8	4738.5	4676.6	4732.5	4876.8	4942.9	4733.7	4259.4	3888.5	3828.9
22.5°	4951.4	4659.8	4486.0	4508.3	4683.8	5014.5	5138.9	4736.7	4308.7	4234.1
25°	5273.6	4723.5	4380.2	4360.4	4540.7	5108.9	5509.3	5256.2	4805.9	4723.5
27.5°	5678.8	4866.6	4358.6	4338.7	4490.8	5197.2	5817.1	5769.6	5329.5	5188.8
30°	5991.4	5007.3	4422.9	4377.2	4540.7	5258.6	6064.1	6205.4	5746.7	5653.5
32.5°	6215.6	5173.2	4527.5	4461.4	4681.4	5364.4	6254.7	6604.6	6132.7	5991.4
35°	6386.4	5353.5	4696.5	4587.6	4875.0	5524.9	6433.3	7029.6	6543.3	6388.8
37.5°	6546.3	5606.6	4960.4	4830.5	5178.6	5783.4	6622.0	7511.8	7002.6	6818.0
40°	6769.3	5893.4	5367.4	5251.9	5689.0	6135.7	6857.7	8014.4	7525.0	7293.0
42.5°	6992.4	6201.2	5784.0	5815.3	6325.7	6563.7	7161.9	8545.8	8040.8	7793.2
45°	7196.2	6518.6	6377.4	6521.6	6916.6	7033.3	7464.3	8853.0	8452.7	8213.4
47.5°	7377.7	6915.4	6967.1	7351.3	7588.8	7458.3	7690.4	9118.2	8759.3	8548.2
50°	7588.8	7428.8	7744.5	8287.9	8362.5	7843.1	7896.0	9432.0	9117.6	8948.0
52.5°	7819.6	7969.9	8605.4	9084.5	9060.5	8260.9	8102.8	9783.7	9608.7	9449.4
55°	8081.7	8407.0	9363.4	9830.0	9809.5	8727.4	8445.4	10218.3	10224.3	10080.1
57.5°	8470.7	8783.3	9878.1	10433.0	10467.2	9266.1	9026.2	10705.3	10781.0	10684.9
59°	8749.6	9027.4	10081.9	10684.9	10824.3	9682.7	9450.6	10987.8	10937.9	10850.2
60°	8956.4	9182.5	10182.9	10816.5	11031.7	9965.2	9763.8	11153.8	10956.6	10850.2
62.5°	9468.1	9520.4	10365.0	10965.6	11270.4	10592.9	10645.2	11436.3	10827.3	10653.6
65°	9706.7	9733.8	10362.6	10698.7	11039.5	11081.6	11444.7	11444.7	10511.7	10244.8
67.5°	9606.9	9476.5	9848.6	9813.7	10154.0	10791.3	11745.3	11025.1	9908.1	9563.0
70°	8795.3	8293.3	8128.0	8143.0	8403.4	9386.3	11150.2	9790.3	8765.9	8362.5
72.5°	7318.2	6114.0	5705.8	6171.8	6239.7	7213.6	9502.3	7372.9	6464.5	6086.4
75°	5886.2	4309.9	3646.2	4138.0	4253.4	5279.0	7350.7	4591.8	3776.0	3481.5
77.5°	4228.7	3093.7	2616.4	2582.1	2731.2	3348.0	5215.9	2311.0	1927.4	1798.7
80°	2402.3	2036.2	2192.5	2068.7	2143.8	2093.3	2478.1	1013.6	830.2	776.1
82.5°	1450.1	1203.6	1303.4	1085.1	1373.1	1195.8	954.7	324.6	282.0	268.1
85°	943.3	657.7	342.7	229.7	473.1	764.1	213.4	88.4	67.9	54.1
87.5°	325.2	167.7	16.8	7.2	50.5	142.5	7.8	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

(END OF REPORT)