

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: P324158

Luminaire Tested: **GAN-SA4B-740-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17090 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

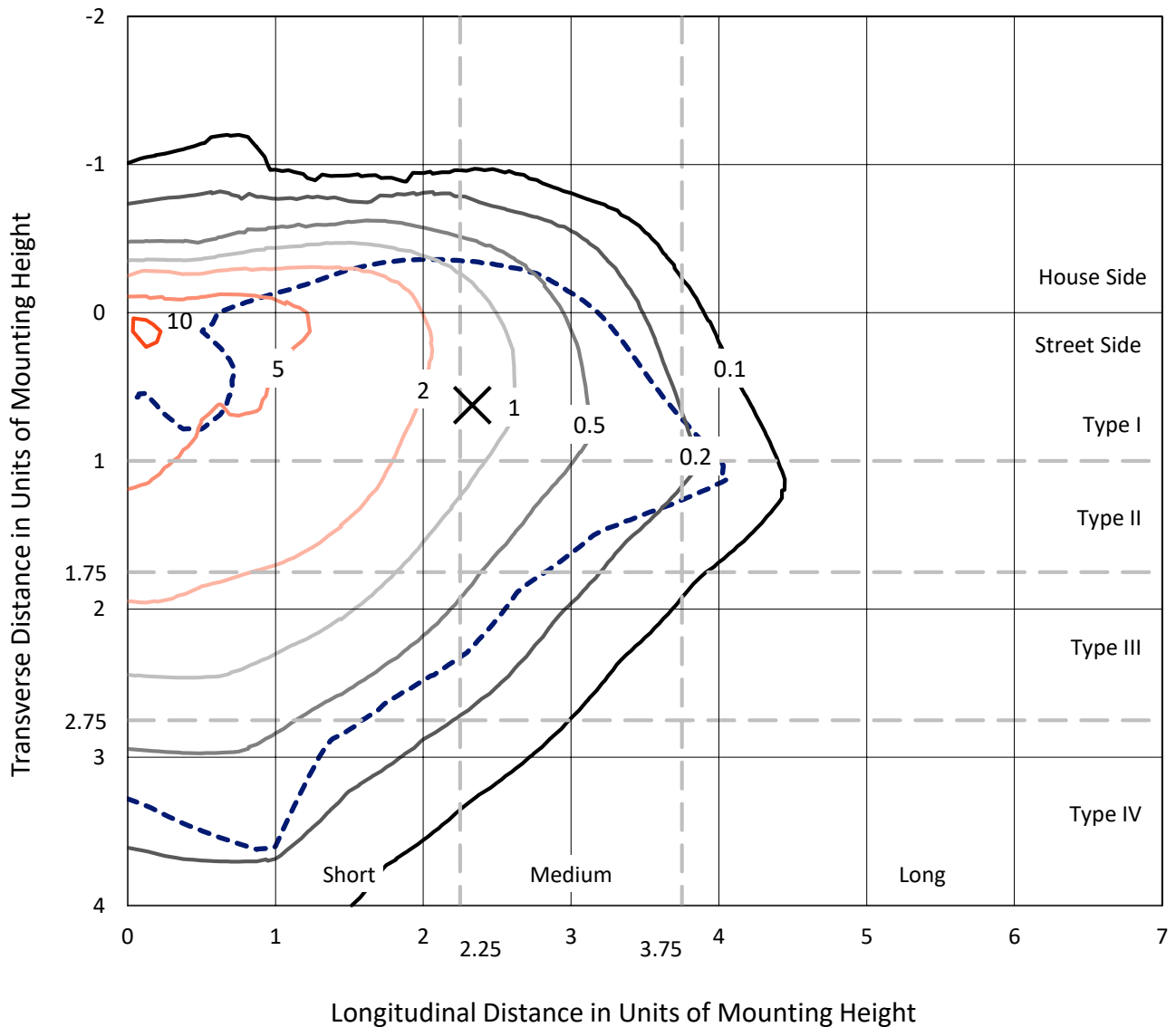
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

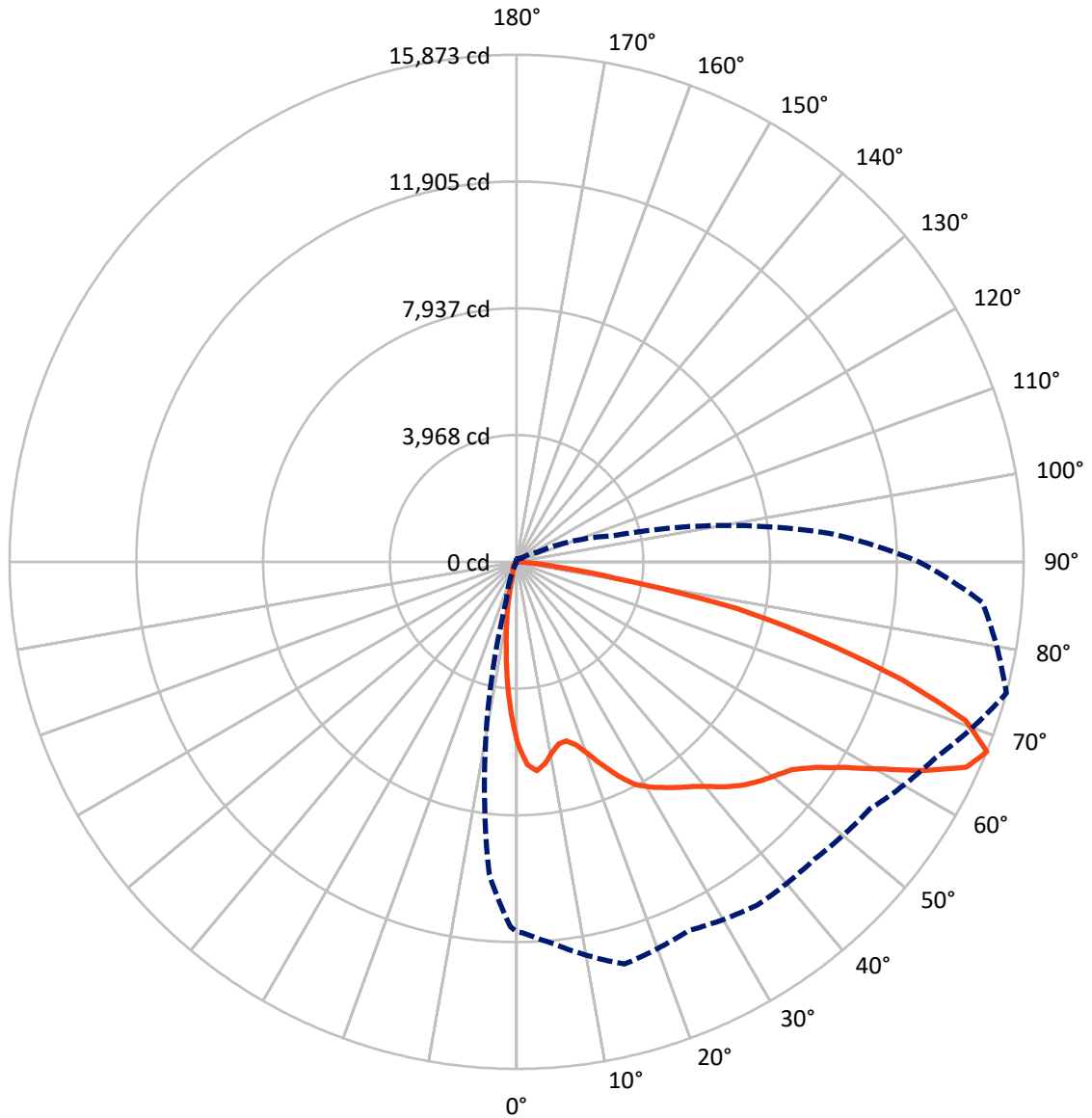
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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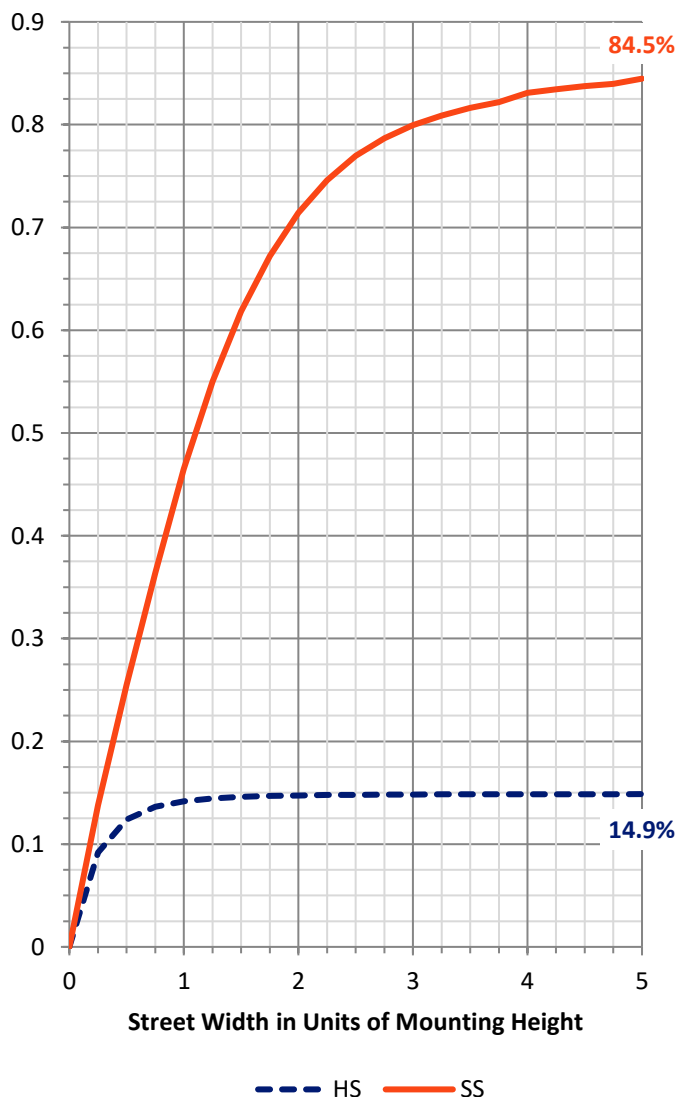
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2564.5	0.0	2564.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	14525.5	0.0	14525.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	17090.0	0.0	17090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.9	2.5
10°-20°	856.3	5.0
20°-30°	1211.5	7.1
30°-40°	1781.2	10.4
40°-50°	2560.2	15.0
50°-60°	3604.0	21.1
60°-70°	4209.2	24.6
70°-80°	2147.4	12.6
80°-90°	285.3	1.7
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°	17090.0	100.0
0°-180°	17090.0	100.0

Coefficient of Utilization

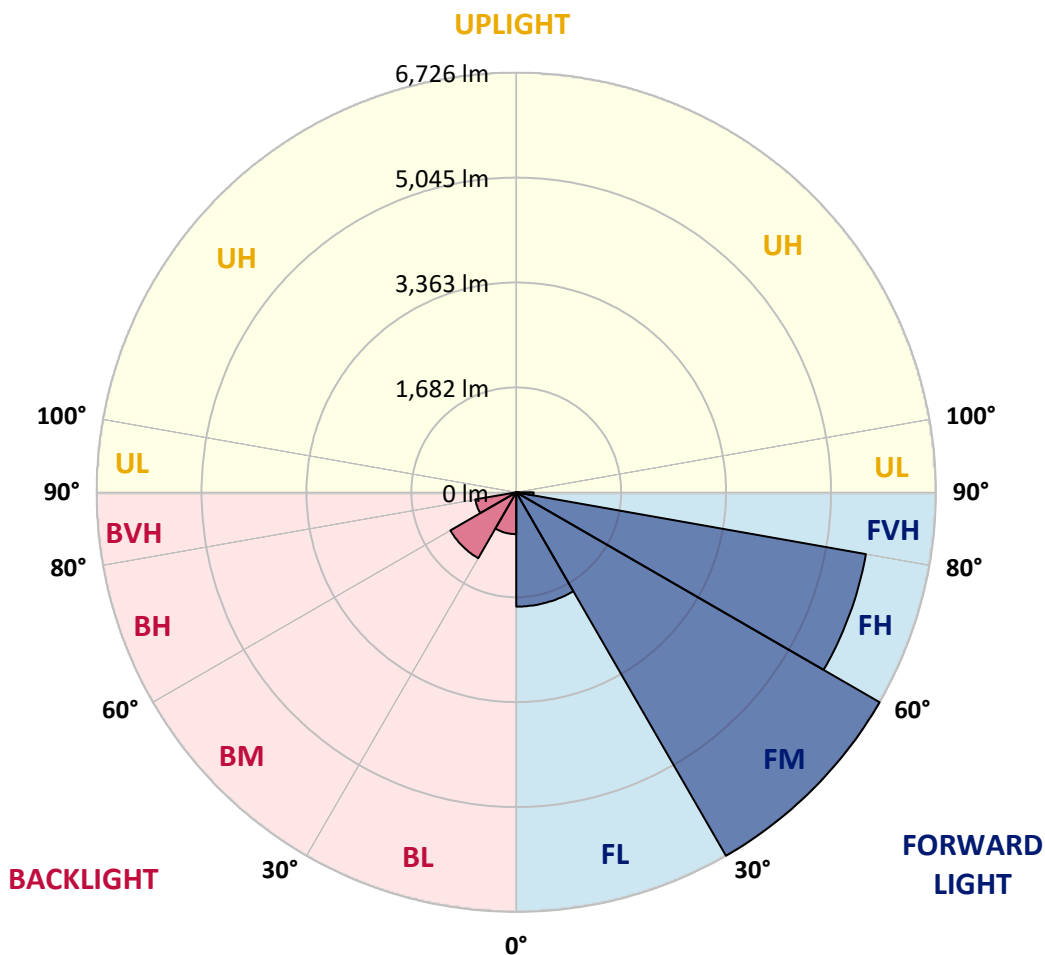


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1832.1	10.7			
FM (30°-60°)	6726.3	39.4			
FH (60°-80°)	5690.5	33.3			G3/7500
FVH (80°-90°)	276.6	1.6			G3/500
BL (0°-30°)	670.7	3.9	B2/1000		
BM (30°-60°)	1219.1	7.1	B2/2500		
BH (60°-80°)	666.1	3.9	B2/1000		G2/1000
BVH (80°-90°)	8.6	0.1			G0/10
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°	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4
2.5°	6215.1	6224.8	6275.0	6391.6	6518.7	6528.4	6614.2	6526.0	6496.0	6353.5	6206.2
5°	6262.1	6299.3	6471.7	6814.2	7111.3	7206.8	7274.8	7101.6	6919.4	6571.3	6199.7
7.5°	5884.0	5946.3	6217.5	6860.3	7391.4	7626.2	7670.7	7399.5	6953.4	6380.3	5821.6
10°	5399.9	5471.1	5798.2	6588.3	7317.7	7720.1	7781.6	7426.2	6785.0	6071.0	5412.8
12.5°	5008.0	5091.4	5425.8	6282.3	7064.3	7509.6	7631.0	7336.4	6639.3	5851.6	5133.5
15°	4827.5	4923.0	5274.4	6084.8	6783.4	7134.0	7234.4	7107.2	6558.4	5816.8	5068.7
17.5°	4931.1	5034.7	5397.4	6101.8	6519.5	6669.3	6750.2	6802.0	6558.4	6026.5	5258.2
20°	5356.1	5467.9	5851.6	6274.2	6300.9	6245.1	6331.7	6513.8	6634.5	6424.8	5713.2
22.5°	5943.9	6075.0	6508.2	6569.7	6194.1	5982.8	5994.1	6279.9	6772.9	6930.0	6344.6
25°	6660.4	6820.7	7261.1	7010.1	6238.6	5826.5	5822.5	6087.2	6908.1	7435.9	7048.2
27.5°	7372.0	7548.5	7935.4	7547.7	6422.4	5798.2	5790.1	6028.9	7040.1	7886.1	7816.4
30°	7968.6	8140.3	8473.8	7937.1	6620.7	5864.6	5825.7	6091.2	7118.6	8178.3	8376.7
32.5°	8454.4	8592.0	8861.6	8205.0	6832.8	5993.3	5909.1	6258.0	7252.2	8425.2	8891.6
35°	8988.7	9133.6	9241.3	8460.0	7070.8	6178.7	6058.0	6522.7	7457.8	8676.2	9455.8
37.5°	9598.3	9742.4	9729.5	8693.2	7372.8	6485.5	6408.6	6942.1	7777.6	8924.7	10085.7
40°	10195.0	10342.3	10237.1	8948.2	7727.4	6991.5	6934.8	7571.9	8205.8	9242.9	10824.0
42.5°	10753.6	10913.1	10688.0	9189.5	8150.0	7629.4	7726.6	8383.1	8741.8	9634.7	11460.3
45°	11203.7	11366.4	11066.1	9424.3	8595.2	8403.4	8695.6	9281.8	9386.2	9965.9	11890.2
47.5°	11530.8	11684.6	11328.4	9659.0	9165.2	9349.8	9859.0	10224.1	9968.3	10253.3	12195.4
50°	11739.6	11859.4	11405.3	9952.9	9913.2	10454.0	11070.9	11249.0	10516.4	10512.3	12566.2
52.5°	11872.4	11926.6	11461.9	10259.7	10693.7	11656.2	12257.8	12313.6	11080.6	10797.3	13065.7
55°	12329.8	12373.5	11863.5	10631.3	11338.9	12709.5	13331.3	13279.4	11719.4	11355.1	13655.1
57.5°	13110.2	13156.4	12693.3	11165.6	11861.1	13360.4	14109.3	14202.4	12468.2	12138.8	14286.6
60°	13502.1	13587.9	13422.7	11842.4	12367.1	13776.5	14639.5	14936.6	13404.1	13171.8	14898.6
62.5°	13146.7	13271.3	13511.0	12592.9	12869.8	14005.6	14804.7	15199.8	14362.7	14375.6	15275.9
65°	12437.5	12537.1	12943.5	13004.2	13161.2	13977.3	14396.7	14832.2	14949.6	15481.5	15255.6
67.5°	11581.0	11618.2	11963.1	13036.6	12738.6	13125.6	13171.0	13493.2	14485.7	15873.3	14642.8
70°	10348.0	10368.2	10669.4	11952.5	10947.1	11032.1	10964.9	11030.4	12453.7	14918.8	13095.7
72.5°	8328.1	8379.1	8807.4	9926.2	7975.1	7729.8	8257.7	8228.5	9591.0	12604.3	9726.2
75°	6131.7	6220.0	6866.8	7995.4	5597.4	5063.1	5448.4	5551.2	6818.2	9749.7	6082.3
77.5°	4293.2	4358.7	4985.4	5877.5	4051.1	3620.4	3481.2	3603.4	4500.4	7053.0	3064.2
80°	2473.2	2497.5	2897.5	3393.7	2729.9	3123.3	2829.5	2913.7	2696.7	3137.9	1318.0
82.5°	1618.3	1622.4	1778.6	2019.9	1700.1	1975.4	1462.1	1869.3	1658.8	1260.5	429.1
85°	874.3	879.2	1031.4	1433.8	962.6	544.0	319.8	656.6	1025.7	289.0	117.4
87.5°	96.3	88.2	310.9	521.4	267.2	49.4	17.0	73.7	164.3	18.6	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°	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4
2.5°	6130.9	6063.7	5896.1	5718.8	5576.3	5442.8	5308.4	5144.0	5016.9	4991.0	4948.9
5°	5999.8	5786.8	5435.5	5082.5	4798.3	4439.7	4212.2	4034.9	3861.7	3851.1	3816.3
7.5°	5541.5	5261.4	4766.8	4278.6	3878.7	3537.0	3192.2	2961.4	2780.1	2716.1	2678.1
10°	5101.1	4786.2	4168.5	3611.5	3254.5	2952.5	2709.6	2468.4	2249.8	2099.2	2031.2
12.5°	4793.5	4445.4	3764.5	3284.4	3028.6	2742.0	2445.7	2144.6	1892.8	1711.4	1600.5
15°	4674.5	4302.9	3629.3	3154.9	2839.2	2476.5	2097.6	1753.5	1474.2	1309.9	1210.3
17.5°	4816.2	4383.8	3618.8	2997.0	2555.8	2104.9	1686.3	1279.9	1016.8	892.2	828.2
20°	5175.6	4641.3	3614.7	2803.6	2219.0	1664.5	1142.3	842.0	682.5	612.8	582.9
22.5°	5684.0	4970.0	3647.1	2612.5	1868.5	1189.3	788.5	618.5	536.7	499.5	482.5
25°	6338.2	5431.4	3738.6	2439.2	1539.0	887.3	614.5	518.1	460.6	431.5	419.4
27.5°	7035.2	5962.5	3881.1	2288.7	1271.0	707.6	526.2	443.6	402.4	382.1	370.8
30°	7610.0	6577.8	4025.2	2121.1	1076.7	616.9	481.7	404.8	357.0	344.1	333.5
32.5°	8112.7	7043.3	4127.2	1969.7	949.6	548.1	435.6	361.9	329.5	304.4	293.1
35°	8633.3	7431.1	4124.0	1863.6	862.2	496.3	396.7	323.8	285.0	255.8	246.9
37.5°	9196.8	7869.1	4053.5	1773.0	824.1	455.0	374.8	303.6	264.7	235.6	224.3
40°	9856.6	8328.9	3981.5	1688.0	813.6	421.8	359.5	287.4	246.1	217.8	206.4
42.5°	10499.4	8743.4	3918.3	1624.8	768.3	421.0	345.7	275.3	231.5	204.0	191.1
45°	11013.4	9129.6	3906.2	1586.8	720.5	435.6	338.4	267.2	220.2	192.7	180.5
47.5°	11440.9	9548.9	3983.9	1560.0	675.2	397.5	356.2	261.5	209.7	183.0	169.2
50°	11949.3	10063.8	4166.9	1516.3	627.4	357.8	408.0	263.1	200.8	173.2	158.7
52.5°	12658.5	10776.2	4435.7	1442.7	561.8	321.4	401.5	264.7	191.1	162.7	148.2
55°	13453.5	11666.0	4724.7	1320.4	470.4	273.6	344.1	253.4	172.4	151.4	137.6
57.5°	14289.0	12473.1	4896.3	1174.7	374.0	236.4	275.3	230.7	152.2	136.0	127.1
60°	14420.1	12779.9	4817.8	995.8	297.1	205.6	204.0	234.8	136.0	119.8	113.3
62.5°	14093.9	12394.6	4438.1	836.3	248.5	180.5	167.6	204.8	123.1	106.9	100.4
65°	13466.5	11352.7	3822.8	753.7	230.7	154.6	139.2	144.1	107.7	93.1	87.4
67.5°	12593.7	9961.8	3138.7	706.8	228.3	132.8	119.0	109.3	93.1	81.0	76.1
70°	10809.4	8298.9	2504.0	680.9	221.8	111.7	100.4	89.1	77.7	68.8	64.8
72.5°	7955.7	5880.7	1947.8	652.5	223.4	89.1	87.4	73.7	62.3	53.4	51.8
75°	4596.8	3359.7	1277.5	528.7	212.9	68.8	72.9	51.8	43.7	37.2	37.2
77.5°	2449.8	2049.0	486.6	220.2	77.7	43.7	41.3	30.8	27.5	22.7	21.9
80°	1067.8	901.9	146.5	61.5	42.9	23.5	15.4	13.8	12.1	9.7	8.9
82.5°	378.1	326.3	47.8	30.0	18.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	85.8	61.5	0.0	7.3	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°	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4
2.5°	4863.1	4845.3	4740.1	4744.1	4762.7	4789.4	4726.3	4755.4	4834.0	4909.3	4937.6
5°	3760.5	3764.5	3700.6	3740.2	3775.9	3800.1	3698.1	3699.8	3762.1	3847.1	3891.6
7.5°	2649.7	2643.3	2646.5	2741.2	2808.4	2759.8	2797.9	2665.9	2674.0	2734.7	2689.4
10°	1969.7	1880.6	1830.4	1901.7	1975.4	1948.6	1883.1	1840.2	1870.1	1937.3	1932.5
12.5°	1547.9	1420.0	1344.7	1293.7	1354.4	1304.2	1302.6	1265.4	1224.9	1232.2	1339.8
15°	1164.2	1071.1	982.0	900.2	898.6	881.6	795.0	697.9	689.8	694.6	750.5
17.5°	800.7	769.1	732.7	662.2	643.6	572.4	488.2	449.3	429.9	438.8	457.4
20°	562.7	550.5	554.6	516.5	489.8	421.8	372.4	357.0	353.8	362.7	371.6
22.5°	466.3	444.5	442.0	425.0	398.3	348.9	322.2	313.3	309.3	317.4	323.8
25°	408.0	386.2	377.3	366.7	338.4	304.4	288.2	280.1	276.1	280.9	285.0
27.5°	359.5	339.2	331.1	323.8	296.3	272.0	259.1	251.8	248.5	250.2	254.2
30°	323.0	305.2	294.7	285.8	262.3	245.3	234.0	226.7	223.4	223.4	227.5
32.5°	285.0	275.3	265.5	254.2	232.3	221.0	209.7	201.6	198.3	199.2	202.4
35°	237.2	234.0	236.4	225.9	207.3	197.5	186.2	177.3	174.9	175.7	178.9
37.5°	210.5	195.9	204.8	199.2	188.6	175.7	161.1	153.0	149.0	151.4	153.0
40°	193.5	175.7	169.2	174.9	173.2	152.2	139.2	131.2	127.9	128.7	130.3
42.5°	178.9	157.9	143.3	142.5	152.2	132.8	119.0	111.7	107.7	107.7	109.3
45°	165.2	142.5	124.7	110.9	127.9	112.5	99.6	93.1	88.2	88.2	89.1
47.5°	154.6	129.5	108.5	90.7	96.3	92.3	81.8	75.3	70.4	70.4	71.2
50°	144.9	116.6	93.9	76.1	72.1	76.1	66.4	59.1	55.9	55.1	56.7
52.5°	134.4	103.6	80.1	64.8	56.7	57.5	51.8	47.0	42.9	42.9	44.5
55°	123.9	93.1	69.6	55.1	47.0	42.9	41.3	38.0	34.8	34.8	36.4
57.5°	113.3	81.8	59.1	45.3	37.2	34.0	34.0	31.6	29.1	29.1	30.8
60°	103.6	70.4	48.6	37.2	29.1	28.3	29.1	26.7	25.1	25.1	26.7
62.5°	92.3	59.9	39.7	30.8	23.5	22.7	25.1	23.5	21.9	21.9	23.5
65°	78.5	51.0	31.6	23.5	17.8	17.8	21.0	19.4	17.8	17.8	19.4
67.5°	66.4	42.9	24.3	17.0	13.0	13.8	17.8	16.2	15.4	15.4	17.0
70°	55.1	33.2	17.0	10.5	7.3	10.5	13.8	13.8	13.8	13.8	15.4
72.5°	41.3	22.7	9.7	4.0	3.2	7.3	11.3	13.0	12.1	12.1	14.6
75°	26.7	13.0	3.2	0.0	0.0	4.0	8.9	10.5	10.5	9.7	12.1
77.5°	15.4	4.0	0.0	0.0	0.0	0.0	5.7	4.9	4.0	3.2	5.7
80°	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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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 CATALOG NUMBER: GAN-SA4B-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4
2.5°	5051.7	5147.3	5281.7	5424.1	5643.5	5817.6	5988.4	6135.0	6191.6	6215.1
5°	3998.5	4138.5	4335.3	4587.9	4983.7	5339.9	5701.0	6064.5	6222.4	6262.1
7.5°	2869.1	3048.0	3298.2	3614.7	4078.6	4540.1	5044.5	5578.0	5822.5	5884.0
10°	2123.5	2342.1	2628.7	2962.2	3405.1	3879.5	4429.2	5038.8	5318.1	5399.9
12.5°	1506.6	1802.1	2185.8	2591.4	2975.2	3398.6	3954.8	4626.7	4919.8	5008.0
15°	884.9	1170.6	1624.8	2168.0	2659.5	3088.5	3653.6	4415.4	4738.4	4827.5
17.5°	507.6	650.1	993.3	1598.9	2266.0	2860.2	3558.9	4468.0	4848.5	4931.1
20°	387.8	433.1	572.4	1029.8	1806.2	2636.0	3558.9	4766.0	5234.7	5356.1
22.5°	339.2	372.4	429.1	614.5	1329.3	2395.5	3600.2	5196.7	5809.5	5943.9
25°	301.2	331.1	379.7	462.3	906.7	2109.7	3698.1	5725.3	6486.3	6660.4
27.5°	269.6	297.9	341.6	404.8	620.1	1764.9	3830.1	6345.4	7232.7	7372.0
30°	241.3	268.0	307.6	352.2	478.5	1373.8	3942.6	6930.0	7818.9	7968.6
32.5°	214.5	238.8	274.4	307.6	391.8	1016.0	3954.8	7393.0	8305.4	8454.4
35°	189.4	211.3	243.7	269.6	324.6	802.3	3766.1	7794.6	8792.0	8988.7
37.5°	165.2	186.2	214.5	234.0	285.8	654.1	3477.9	8242.3	9416.2	9598.3
40°	142.5	161.1	190.2	203.2	270.4	502.7	3164.6	8711.8	10028.2	10195.0
42.5°	121.4	139.2	167.6	192.7	237.2	375.6	2826.2	9152.2	10578.7	10753.6
45°	101.2	119.8	148.2	204.0	196.7	280.9	2464.3	9444.5	11013.4	11203.7
47.5°	81.8	102.8	141.7	194.3	157.1	206.4	2177.8	9721.4	11342.9	11530.8
50°	65.6	86.6	159.5	173.2	128.7	157.9	2057.9	9969.1	11559.1	11739.6
52.5°	53.4	72.9	150.6	132.8	107.7	130.3	2122.7	10370.6	11759.1	11872.4
55°	44.5	57.5	90.7	92.3	91.5	110.9	2202.9	10947.1	12276.4	12329.8
57.5°	38.9	46.1	63.1	71.2	76.9	98.8	2204.5	11774.4	13077.0	13110.2
60°	33.2	40.5	52.6	57.5	66.4	88.2	2124.3	12063.5	13392.0	13502.1
62.5°	29.1	35.6	43.7	47.8	55.9	79.3	1936.5	11644.9	12959.7	13146.7
65°	25.9	32.4	36.4	40.5	49.4	71.2	1627.2	10807.8	12242.4	12437.5
67.5°	22.7	28.3	32.4	36.4	44.5	63.1	1198.2	9835.5	11419.0	11581.0
70°	20.2	25.1	29.1	32.4	38.9	53.4	727.0	8345.9	10280.8	10348.0
72.5°	19.4	22.7	26.7	29.1	34.0	47.0	368.4	6133.3	8218.8	8328.1
75°	17.0	20.2	24.3	25.9	30.0	40.5	149.8	4028.4	5956.0	6131.7
77.5°	13.8	18.6	21.9	23.5	25.9	33.2	76.1	2574.4	4179.8	4293.2
80°	4.9	13.8	18.6	19.4	21.9	24.3	50.2	1409.5	2424.7	2473.2
82.5°	0.0	8.9	14.6	13.8	15.4	18.6	32.4	670.3	1600.5	1618.3
85°	0.0	4.0	11.3	8.9	6.5	13.0	11.3	146.5	839.5	874.3
87.5°	0.0	0.0	0.8	4.0	3.2	4.9	1.6	0.8	76.1	96.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)