

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: P324598

Luminaire Tested: **GAN-SA4B-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324598
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-SA4B-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA 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: 12562 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

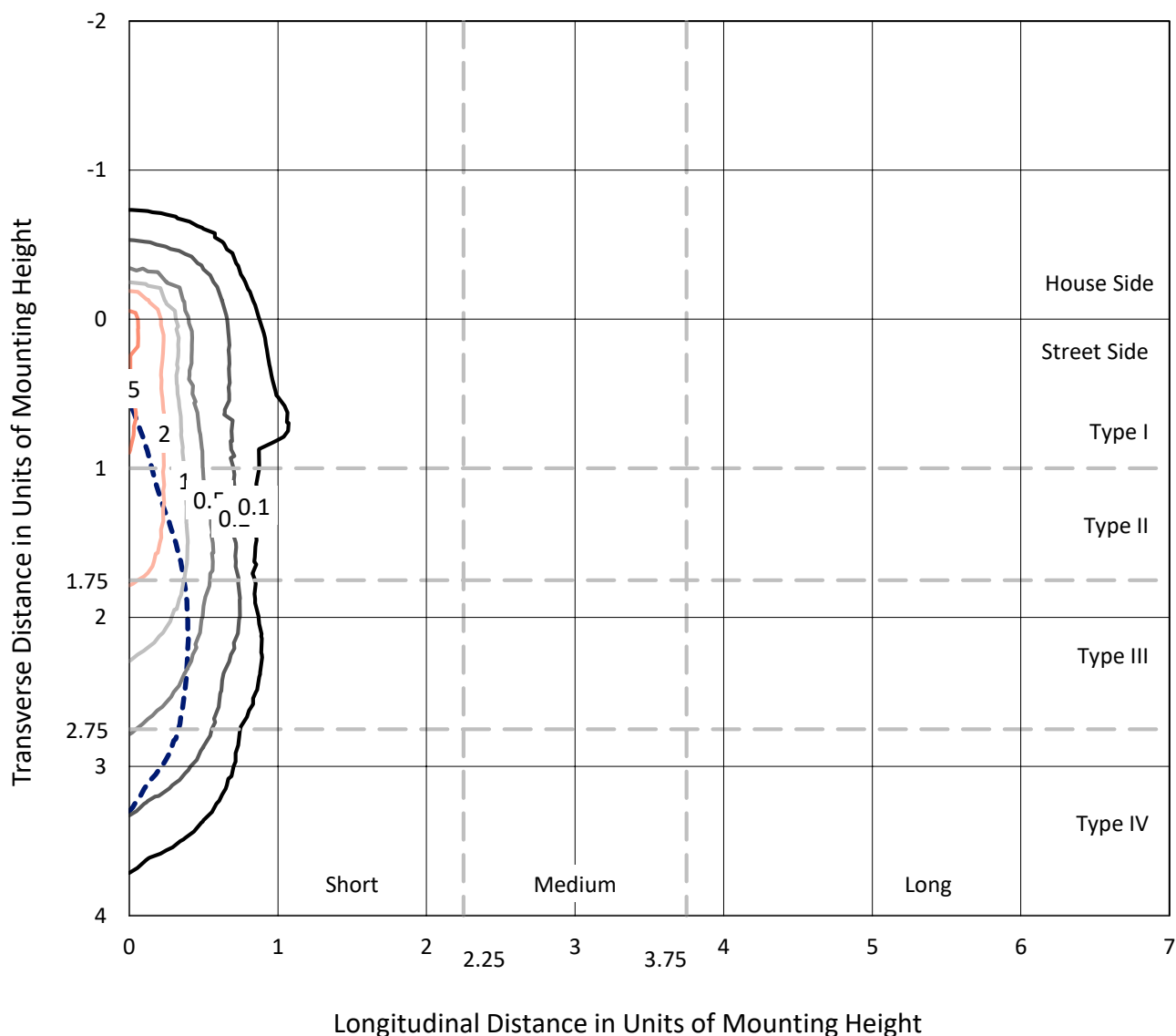
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

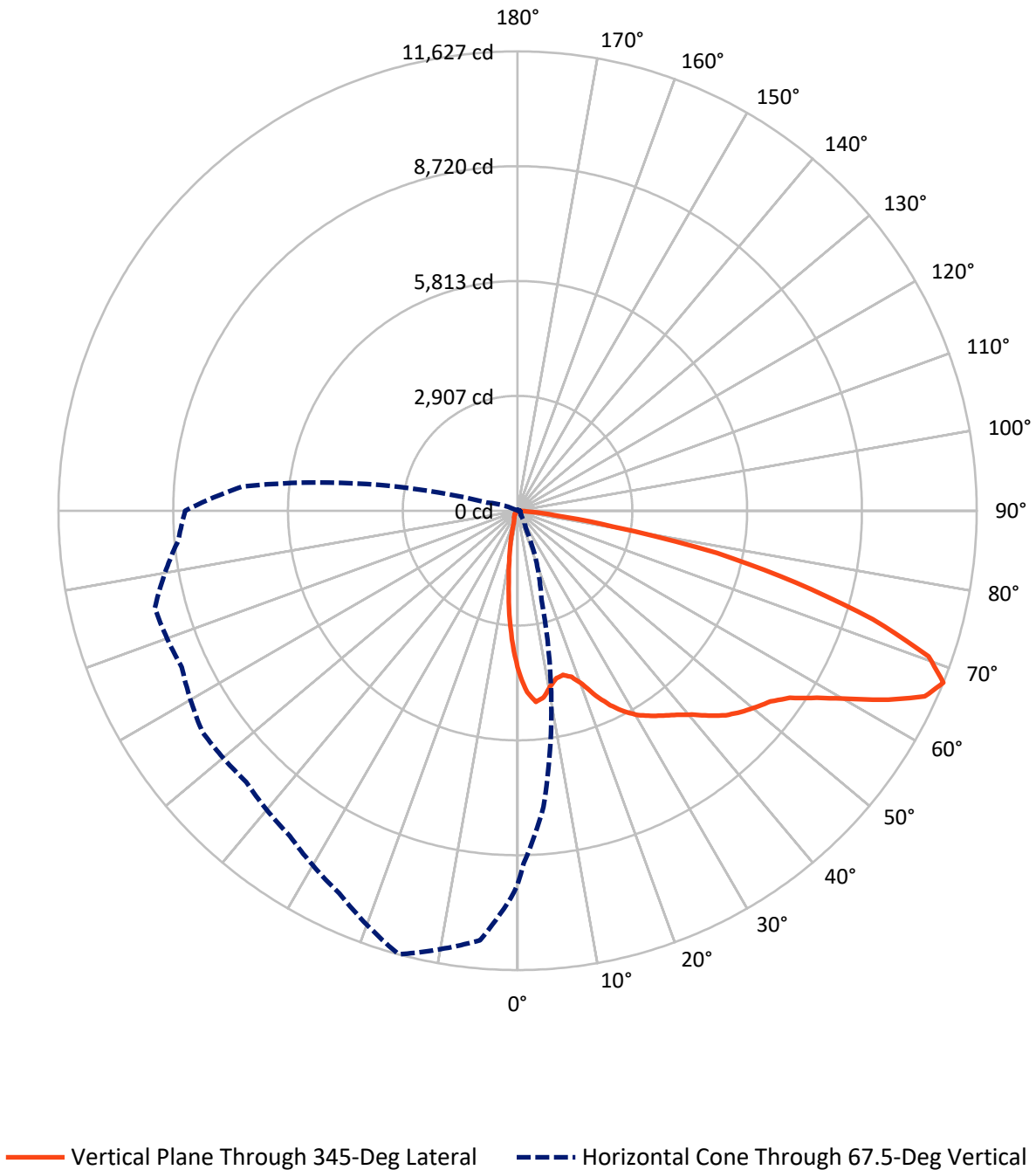
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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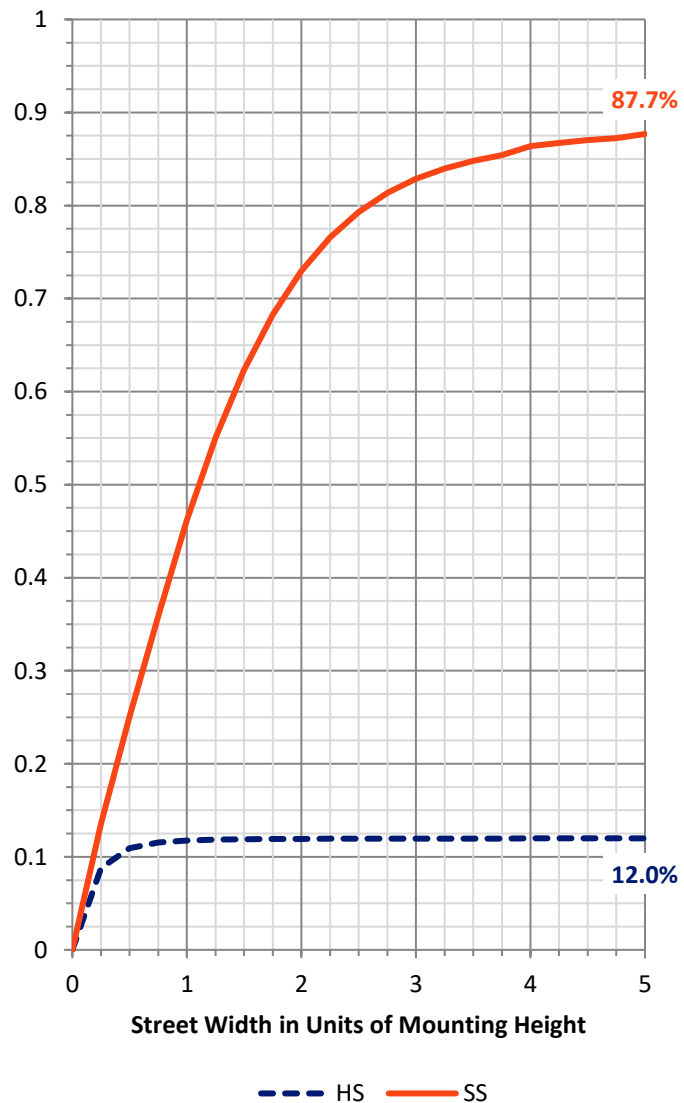
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1520.4	0.0	1520.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	11041.6	0.0	11041.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	12562.0	0.0	12562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.1	2.5
10°-20°	625.1	5.0
20°-30°	887.7	7.1
30°-40°	1311.2	10.4
40°-50°	1891.0	15.1
50°-60°	2654.6	21.1
60°-70°	3094.4	24.6
70°-80°	1581.9	12.6
80°-90°	202.0	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°	12562.0	100.0
0°-180°	12562.0	100.0

Coefficient of Utilization



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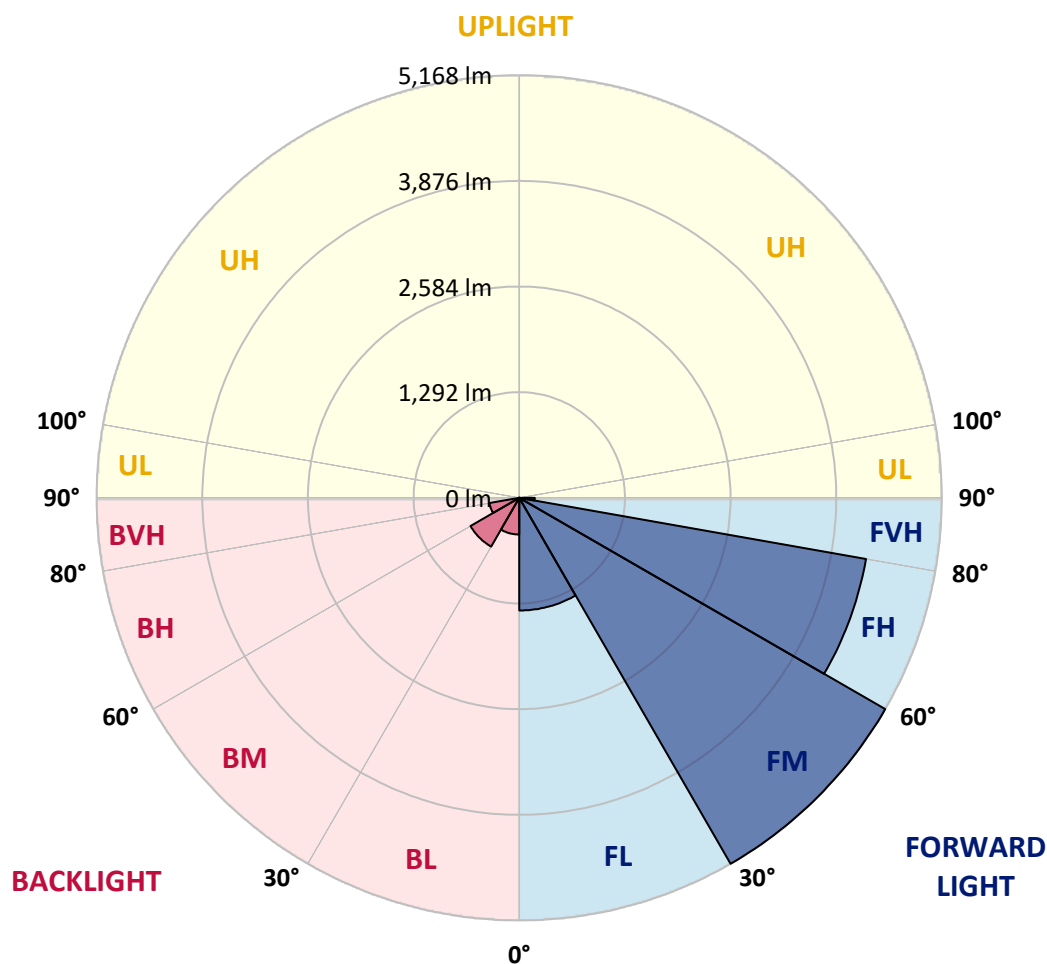
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1377.8	11.0			
FM	(30°-60°)	5168.2	41.1			
FH	(60°-80°)	4305.8	34.3			G2/5000
FVH	(80°-90°)	189.8	1.5			G2/225
BL	(0°-30°)	449.1	3.6	B1/500		
BM	(30°-60°)	688.5	5.5	B1/1000		
BH	(60°-80°)	370.6	2.9	B1/500		G1/500
BVH	(80°-90°)	12.3	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°	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
2.5°	4480.7	4446.1	4408.1	4283.7	4168.2	4036.1	3928.4	3853.4	3759.4	3637.4	3606.4
5°	4448.5	4411.6	4292.0	4015.3	3773.1	3537.4	3310.1	3176.8	3011.3	2843.5	2801.8
7.5°	4125.4	4086.7	3914.1	3535.0	3208.9	2868.5	2573.3	2390.6	2203.7	2050.2	1968.7
10°	3789.1	3746.9	3552.9	3092.8	2691.1	2383.5	2166.8	1992.5	1815.7	1651.5	1520.5
12.5°	3557.6	3502.3	3291.6	2770.3	2420.4	2211.5	2009.1	1800.2	1561.0	1384.8	1240.8
15°	3460.6	3397.5	3175.0	2645.9	2324.5	2079.4	1815.7	1559.2	1278.9	1077.2	945.1
17.5°	3535.6	3453.5	3214.8	2637.6	2204.3	1870.5	1537.2	1236.1	932.0	727.8	633.8
20°	3790.3	3682.6	3379.7	2635.2	2058.5	1622.3	1199.8	859.4	614.2	493.9	444.6
22.5°	4191.4	4049.2	3616.5	2654.2	1908.0	1361.6	866.5	583.8	461.2	398.7	369.6
25°	4675.9	4511.0	3957.6	2721.5	1775.8	1108.1	629.6	461.2	389.2	343.4	319.0
27.5°	5136.5	5002.6	4388.4	2818.5	1673.5	903.4	511.2	391.0	332.7	302.3	282.7
30°	5596.5	5428.1	4830.6	2933.9	1550.3	764.7	449.3	356.5	298.2	266.0	253.5
32.5°	5931.0	5791.1	5177.0	3017.3	1418.8	674.3	401.7	326.1	278.5	245.8	227.3
35°	6324.3	6166.0	5473.9	3035.7	1334.3	617.1	361.2	293.4	241.6	212.5	192.8
37.5°	6749.3	6552.3	5816.7	2995.2	1268.2	589.2	330.9	278.5	225.6	195.8	175.0
40°	7219.4	6996.8	6145.8	2936.9	1203.3	579.6	307.7	267.2	213.1	182.7	161.3
42.5°	7714.5	7452.1	6430.9	2875.6	1162.3	546.9	305.3	255.9	203.5	170.8	149.4
45°	8130.5	7864.5	6723.7	2855.4	1133.1	511.2	315.4	248.2	197.0	161.3	140.4
47.5°	8462.0	8210.3	7023.6	2900.6	1116.4	478.5	287.4	258.3	193.4	152.9	132.7
50°	8857.8	8572.7	7446.1	3035.7	1092.0	445.7	260.1	295.8	193.4	147.6	126.2
52.5°	9354.1	9072.0	7917.5	3245.2	1043.2	400.5	233.9	296.4	195.2	140.4	117.8
55°	9978.4	9773.7	8590.6	3474.9	965.3	333.9	202.3	254.7	188.1	127.4	110.1
57.5°	10577.1	10409.8	9204.1	3632.0	861.1	260.7	176.2	205.3	172.0	111.9	98.2
59°	10740.7	10558.0	9429.1	3639.2	783.2	227.3	163.1	169.6	168.4	104.7	91.1
60°	10740.7	10546.7	9494.0	3601.1	726.6	208.9	154.7	151.2	175.6	100.0	86.9
62.5°	10546.1	10273.6	9283.3	3343.4	592.7	177.9	135.1	125.0	157.7	89.9	76.8
65°	10141.4	9744.5	8565.6	2877.4	528.5	163.1	116.6	102.4	109.5	79.2	67.2
67.5°	9466.6	8928.6	7530.7	2324.5	502.9	158.9	100.6	86.9	82.7	67.8	58.9
70°	8278.1	7681.2	6274.4	1827.6	480.9	157.1	84.5	73.2	66.7	57.1	50.0
72.5°	6025.0	5402.5	4454.5	1428.9	467.8	160.7	67.8	61.3	54.8	44.6	38.7
75°	3446.3	3038.7	2503.7	943.9	398.7	153.5	52.4	51.2	39.3	32.1	26.8
77.5°	1780.6	1726.4	1500.3	362.4	191.0	67.2	34.5	29.8	23.2	19.6	16.1
80°	768.3	760.0	657.6	104.7	50.6	37.5	19.6	12.5	10.7	8.3	6.5
82.5°	265.4	265.4	233.9	35.1	22.6	18.4	2.4	0.0	0.0	0.0	0.0
85°	53.6	60.1	42.3	0.0	7.7	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°	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
2.5°	3568.9	3496.9	3492.2	3446.9	3390.4	3364.8	3349.9	3376.1	3408.3	3411.8	3460.0
5°	2770.3	2694.7	2726.2	2645.9	2662.0	2645.9	2619.7	2624.5	2638.8	2594.1	2649.5
7.5°	1945.4	1888.3	1924.6	1903.2	1931.8	1943.1	1927.0	1903.2	1833.0	1824.6	1872.8
10°	1466.4	1401.5	1362.8	1322.4	1331.3	1349.7	1343.8	1326.5	1281.9	1284.3	1330.7
12.5°	1178.3	1105.7	1029.0	929.6	905.2	918.9	905.2	895.1	852.2	855.8	896.8
15°	893.9	834.4	754.0	674.3	630.8	635.0	596.9	570.1	543.3	511.2	536.2
17.5°	603.5	567.1	543.3	519.5	467.8	455.9	407.7	355.9	335.6	320.8	331.5
20°	427.3	407.7	398.1	396.9	367.2	352.3	305.3	273.2	263.0	260.1	266.6
22.5°	357.1	342.8	329.1	321.4	306.5	289.2	253.5	237.5	230.3	226.7	231.5
25°	310.7	299.9	285.7	272.6	266.6	248.2	222.6	210.7	205.9	202.3	204.7
27.5°	276.1	266.6	250.0	241.6	236.9	220.8	198.8	189.2	185.1	183.9	183.3
30°	248.8	239.8	224.4	214.8	206.5	192.2	179.1	169.6	165.4	164.3	163.1
32.5°	221.4	214.2	204.1	194.6	185.7	172.6	161.3	153.5	147.0	145.8	145.2
35°	186.9	179.7	174.4	173.8	165.4	152.9	144.6	134.5	129.1	127.4	128.0
37.5°	166.0	156.5	144.6	148.8	146.4	137.5	126.2	116.0	110.7	109.5	109.5
40°	152.9	142.8	129.1	122.0	129.1	127.4	109.5	99.4	94.0	93.4	92.2
42.5°	140.4	130.3	114.9	103.0	106.5	111.9	94.6	85.1	79.7	78.6	76.8
45°	131.5	120.8	103.6	89.9	82.7	94.0	80.9	69.0	66.1	63.7	62.5
47.5°	123.2	113.1	93.4	78.0	66.1	67.8	64.9	56.5	53.0	50.6	50.0
50°	116.0	105.3	84.5	66.7	54.8	50.0	52.4	44.6	41.7	39.3	38.1
52.5°	107.7	97.6	75.0	57.7	45.8	39.3	39.9	35.1	32.1	30.4	29.8
55°	101.2	91.1	67.2	50.6	40.5	32.1	28.6	27.4	25.6	24.4	23.8
57.5°	92.2	82.7	59.5	42.8	34.5	26.2	22.0	22.0	21.4	20.2	19.6
59°	86.9	78.6	54.8	38.7	31.5	22.6	19.6	20.2	19.6	18.4	17.9
60°	82.7	75.0	51.2	35.7	29.8	20.8	17.9	19.0	18.4	17.3	16.7
62.5°	73.2	67.8	44.0	29.8	26.2	16.7	14.9	16.1	16.1	15.5	14.9
65°	64.3	58.3	37.5	25.0	24.4	14.3	11.9	14.3	14.9	13.7	12.5
67.5°	55.9	50.0	32.7	20.2	22.6	11.3	8.9	11.9	16.1	12.5	11.3
70°	47.6	41.7	25.6	16.1	23.8	7.7	7.1	10.7	19.0	13.7	10.7
72.5°	36.9	32.1	17.9	11.9	25.6	5.4	5.4	8.9	21.4	14.9	10.1
75°	25.6	20.8	10.7	7.1	20.8	3.6	3.6	8.3	20.2	13.7	9.5
77.5°	14.9	11.3	3.6	0.6	10.7	0.0	0.6	6.0	14.3	8.3	4.2
80°	5.4	2.4	0.0	0.0	6.5	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°	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
2.5°	3472.5	3552.9	3624.9	3733.8	3862.9	4011.7	4139.7	4277.1	4406.3	4459.8	4496.7
5°	2660.8	2760.2	2876.2	3036.3	3249.4	3511.8	3757.6	4035.5	4334.3	4483.6	4624.1
7.5°	1881.2	1982.3	2126.4	2296.6	2554.3	2866.7	3188.1	3571.9	3976.6	4212.9	4445.5
10°	1352.7	1477.1	1611.6	1844.3	2106.1	2402.5	2733.4	3161.9	3613.0	3874.8	4155.1
12.5°	920.7	1062.3	1265.8	1526.5	1834.2	2124.6	2412.0	2820.9	3344.6	3604.0	3904.6
15°	552.3	630.8	846.3	1148.0	1525.3	1887.1	2201.9	2612.0	3170.2	3488.0	3800.4
17.5°	340.4	376.7	493.9	741.5	1137.9	1595.5	2027.0	2541.2	3195.2	3582.0	3916.5
20°	271.4	285.7	323.2	438.0	754.0	1274.2	1830.0	2526.9	3399.3	3875.4	4234.3
22.5°	235.7	249.4	274.4	318.4	474.3	954.0	1643.1	2540.0	3692.1	4315.2	4734.2
25°	207.7	219.6	243.4	279.7	347.6	671.9	1443.2	2598.3	4073.6	4860.9	5306.1
27.5°	185.7	195.8	217.8	251.1	298.2	469.0	1216.4	2669.1	4525.9	5419.2	5858.4
30°	165.4	174.4	194.0	225.0	258.9	360.6	967.7	2717.3	4978.8	5858.4	6252.9
32.5°	148.2	154.7	172.6	198.8	225.0	287.4	735.6	2709.6	5315.0	6223.8	6536.8
35°	130.3	136.9	152.4	175.0	195.8	237.5	578.5	2565.0	5607.8	6602.9	6861.7
37.5°	110.7	119.0	133.9	154.1	168.4	208.9	467.8	2390.6	5904.8	7036.1	7224.2
40°	94.0	102.4	115.5	137.5	146.4	198.2	359.5	2178.1	6238.6	7520.5	7621.7
42.5°	78.0	85.7	99.4	118.4	138.1	170.8	266.0	1935.3	6559.4	7934.7	7984.1
45°	63.1	70.8	85.1	104.1	147.6	141.6	205.9	1675.3	6818.3	8279.3	8295.4
47.5°	50.0	57.1	72.0	98.2	137.5	113.1	147.0	1471.1	7035.5	8548.3	8506.1
50°	38.7	44.6	60.1	112.5	120.2	93.4	111.3	1403.3	7230.1	8714.9	8605.4
52.5°	30.4	35.7	49.4	105.3	93.4	77.4	93.4	1467.0	7496.7	8853.0	8661.4
55°	24.4	29.8	38.7	60.1	63.7	65.5	79.7	1526.5	7956.8	9176.8	8991.7
57.5°	20.2	25.6	31.5	42.3	48.2	55.3	70.8	1533.0	8498.9	9714.7	9539.8
59°	18.4	23.2	28.6	37.5	42.3	50.6	66.7	1497.3	8689.9	9910.5	9823.1
60°	17.3	22.0	26.8	34.5	39.3	47.6	64.3	1463.4	8698.3	9903.4	9943.9
62.5°	14.9	19.6	23.8	29.2	33.3	40.5	57.7	1337.8	8346.0	9579.1	9871.3
65°	13.1	17.3	21.4	25.0	28.6	36.3	52.4	1108.7	7744.3	9055.9	9374.3
67.5°	11.9	14.9	19.6	22.0	25.6	32.1	46.4	790.3	6992.7	8416.2	8622.7
70°	10.7	14.3	17.9	20.2	23.2	28.0	39.9	454.1	5904.8	7479.5	7626.5
72.5°	10.1	13.7	16.1	19.0	20.8	25.0	36.3	213.6	4323.6	5991.7	6375.5
75°	8.9	12.5	14.9	17.9	19.6	22.6	30.9	102.4	2875.6	4336.0	4772.3
77.5°	5.4	10.1	13.7	16.1	17.3	19.6	25.6	58.9	1835.4	3001.2	3535.0
80°	0.0	3.6	10.1	13.7	14.9	16.7	19.6	46.4	981.9	1714.5	2057.9
82.5°	0.0	0.0	7.1	10.7	10.1	11.3	14.9	29.2	442.8	1120.6	1262.8
85°	0.0	0.0	2.4	8.3	7.1	5.4	10.1	10.1	97.0	567.1	707.6
87.5°	0.0	0.0	0.0	0.6	3.6	2.4	4.2	1.2	0.6	42.3	171.4
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-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
2.5°	4625.9	4669.9	4744.3	4779.4	4762.2	4689.0	4601.5	4512.2	4459.8	4480.7
5°	4910.3	5137.1	5268.0	5311.5	5238.8	5074.6	4859.8	4576.5	4475.9	4448.5
7.5°	4910.3	5337.0	5607.2	5654.8	5493.0	5171.0	4768.1	4325.9	4178.9	4125.4
10°	4737.8	5318.6	5695.3	5770.9	5544.7	5063.3	4523.5	4018.8	3844.5	3789.1
12.5°	4543.1	5168.6	5565.6	5669.7	5484.0	4956.2	4353.9	3811.2	3605.8	3557.6
15°	4423.5	4984.1	5312.6	5388.2	5309.7	4893.7	4313.4	3748.7	3507.0	3460.6
17.5°	4466.4	4841.3	4959.7	5003.8	5056.7	4871.7	4423.5	3885.5	3579.6	3535.6
20°	4627.7	4690.7	4629.4	4684.8	4827.6	4893.1	4686.0	4216.4	3849.2	3790.3
22.5°	4901.4	4612.8	4440.8	4462.8	4636.6	4963.9	5087.1	4689.0	4265.2	4191.4
25°	5220.4	4675.9	4336.0	4316.4	4494.9	5057.3	5453.7	5203.1	4757.4	4675.9
27.5°	5621.5	4817.5	4314.6	4295.0	4445.5	5144.8	5758.4	5711.4	5275.7	5136.5
30°	5931.0	4956.8	4378.3	4333.1	4494.9	5205.5	6003.0	6142.8	5688.8	5596.5
32.5°	6153.0	5121.0	4481.9	4416.4	4634.2	5310.3	6191.6	6538.0	6070.8	5931.0
35°	6322.0	5299.5	4649.1	4541.4	4825.8	5469.2	6368.4	6958.7	6477.3	6324.3
37.5°	6480.3	5550.1	4910.3	4781.8	5126.4	5725.1	6555.3	7436.0	6932.0	6749.3
40°	6701.1	5834.0	5313.2	5199.0	5631.6	6073.8	6788.5	7933.6	7449.1	7219.4
42.5°	6921.8	6138.7	5725.7	5756.6	6261.9	6497.5	7089.7	8459.6	7959.7	7714.5
45°	7123.6	6452.9	6313.0	6455.9	6846.9	6962.3	7389.0	8763.7	8367.4	8130.5
47.5°	7303.3	6845.7	6896.9	7277.1	7512.2	7383.1	7612.8	9026.2	8670.9	8462.0
50°	7512.2	7353.9	7666.3	8204.3	8278.1	7763.9	7816.3	9336.8	9025.6	8857.8
52.5°	7740.7	7889.5	8518.6	8992.9	8969.1	8177.6	8021.0	9685.0	9511.8	9354.1
55°	8000.2	8322.2	9269.0	9730.8	9710.6	8639.4	8360.3	10115.3	10121.2	9978.4
57.5°	8385.2	8694.7	9778.4	10327.7	10361.6	9172.6	8935.1	10597.3	10672.3	10577.1
59°	8661.4	8936.3	9980.2	10577.1	10715.1	9585.0	9355.3	10877.0	10827.6	10740.7
60°	8866.1	9089.9	10080.2	10707.4	10920.5	9864.7	9665.4	11041.3	10846.1	10740.7
62.5°	9372.6	9424.3	10260.5	10855.0	11156.7	10486.0	10537.8	11321.0	10718.1	10546.1
65°	9608.8	9635.6	10258.1	10590.8	10928.2	10969.9	11329.3	11329.3	10405.7	10141.4
67.5°	9510.0	9380.9	9749.3	9714.7	10051.6	10682.4	11626.9	10913.9	9808.2	9466.6
70°	8706.6	8209.7	8046.0	8060.9	8318.6	9291.6	11037.7	9691.5	8677.5	8278.1
72.5°	7244.4	6052.4	5648.3	6109.5	6176.8	7140.9	9406.5	7298.6	6399.3	6025.0
75°	5826.8	4266.4	3609.4	4096.2	4210.5	5225.8	7276.5	4545.5	3738.0	3446.3
77.5°	4186.1	3062.5	2590.0	2556.0	2703.6	3314.2	5163.3	2287.6	1908.0	1780.6
80°	2378.1	2015.7	2170.4	2047.8	2122.2	2072.2	2453.1	1003.4	821.9	768.3
82.5°	1435.4	1191.4	1290.2	1074.2	1359.3	1183.7	945.1	321.4	279.1	265.4
85°	933.7	651.1	339.2	227.3	468.4	756.4	211.3	87.5	67.2	53.6
87.5°	322.0	166.0	16.7	7.1	50.0	141.0	7.7	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)