

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: P324308

Luminaire Tested: **GAN-SA4A-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324308
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-SA4A-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 11074 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

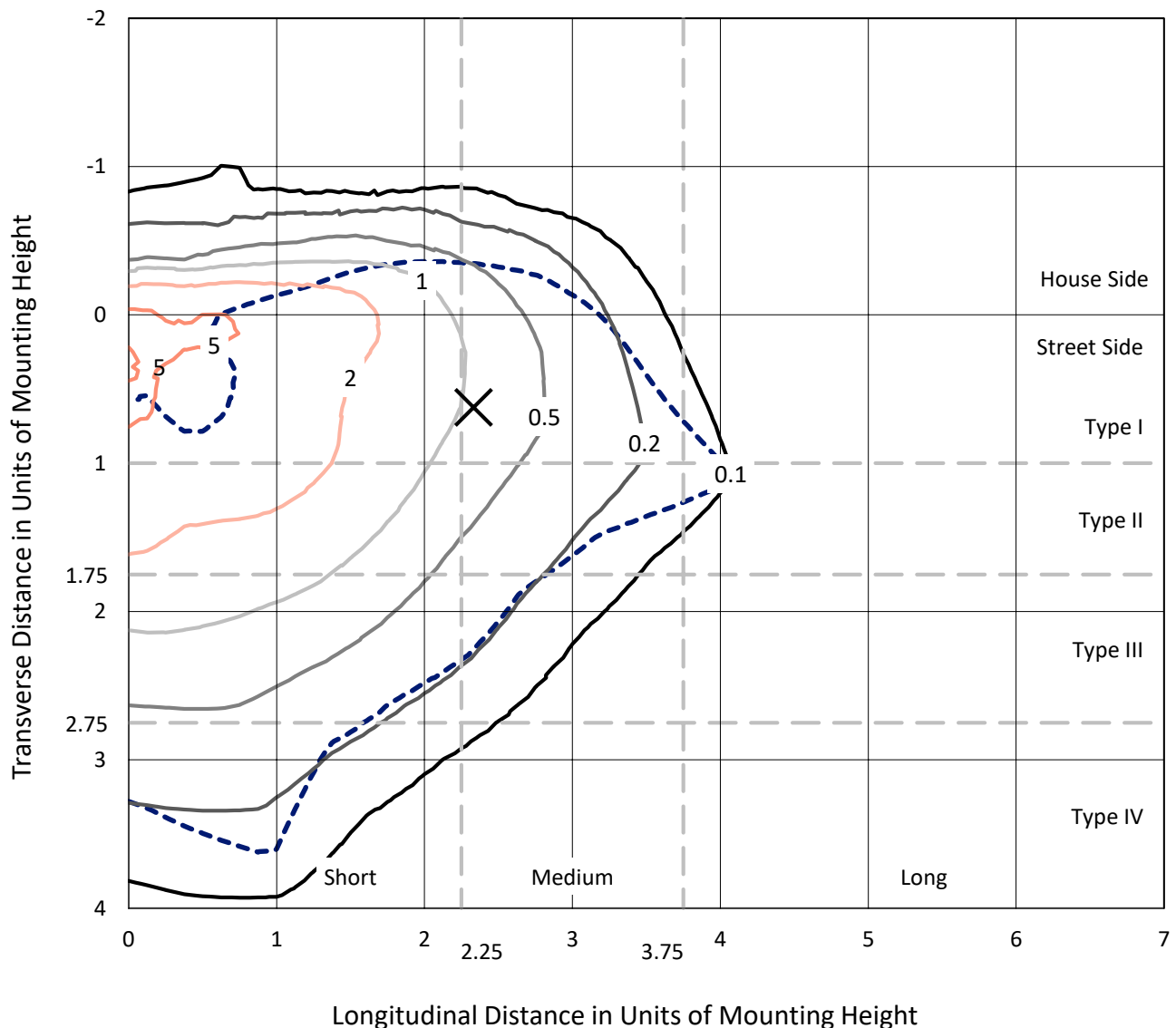
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

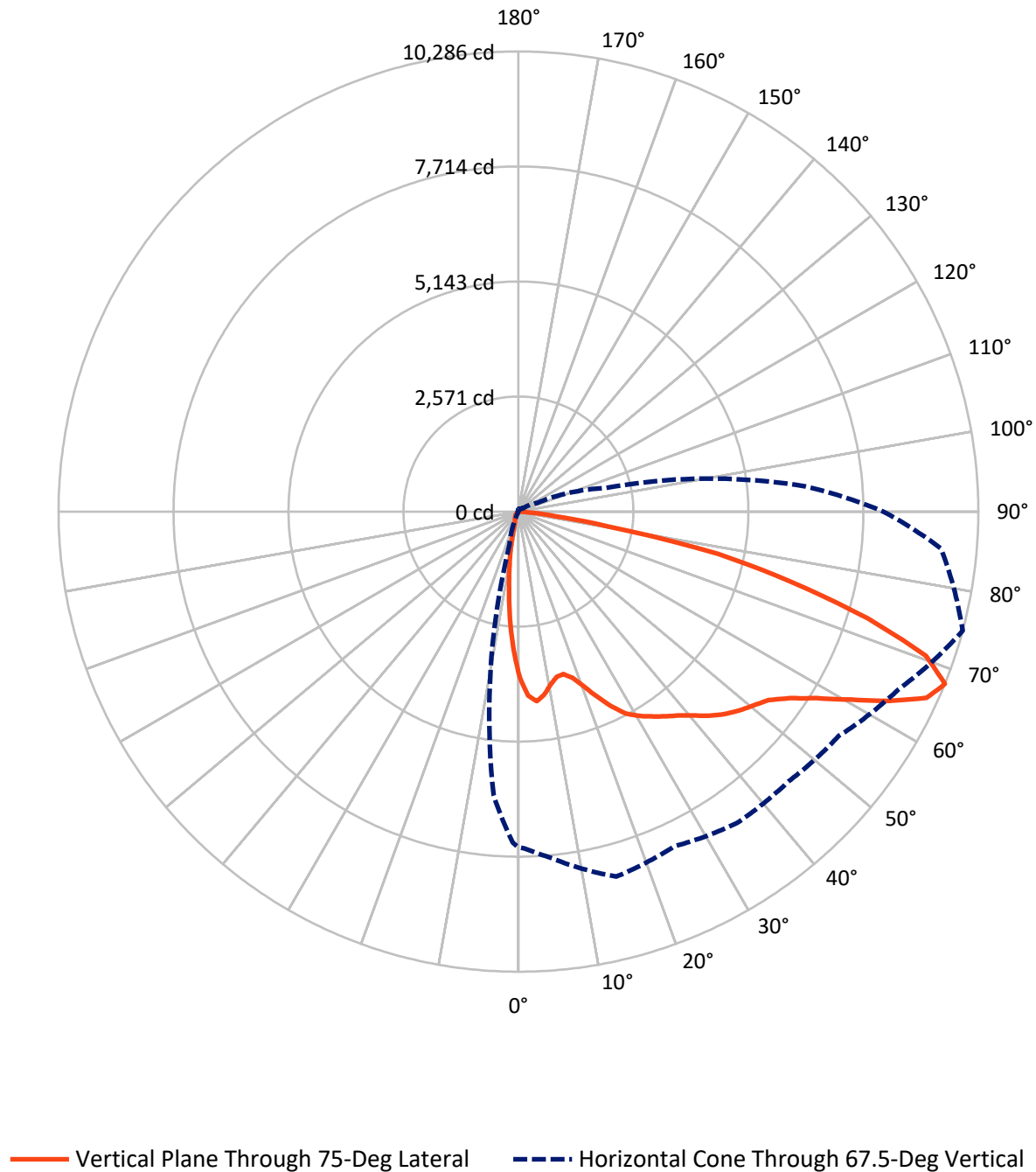
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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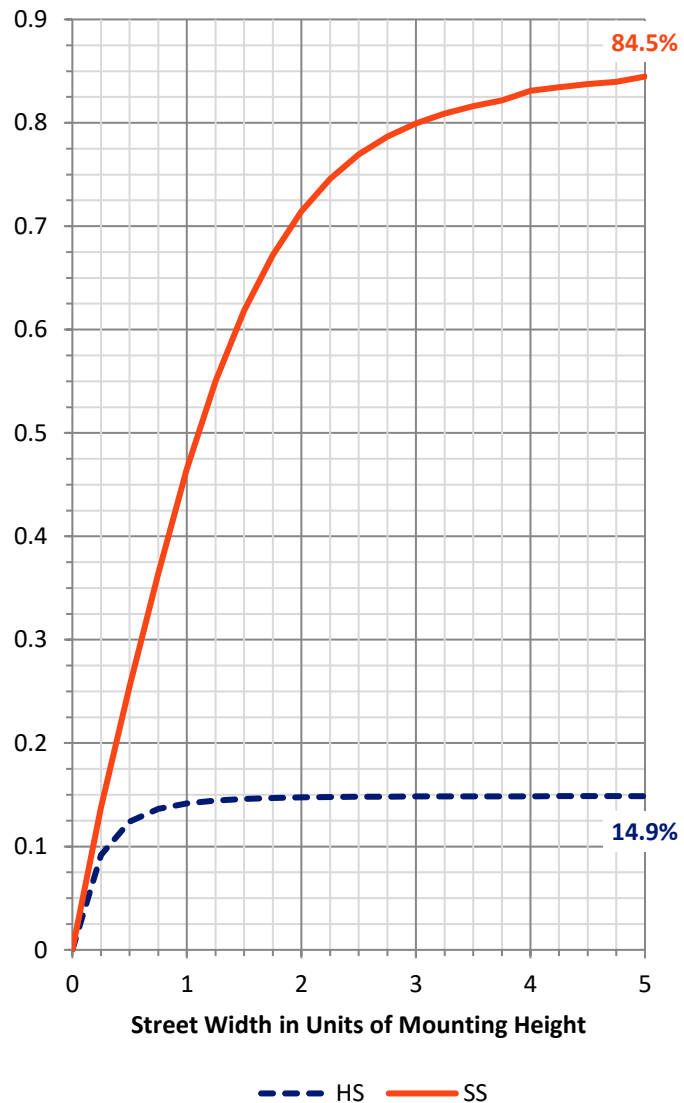
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1661.8	0.0	1661.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	9412.2	0.0	9412.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	11074.0	0.0	11074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	2.5
10°-20°	554.9	5.0
20°-30°	785.0	7.1
30°-40°	1154.2	10.4
40°-50°	1658.9	15.0
50°-60°	2335.4	21.1
60°-70°	2727.5	24.6
70°-80°	1391.5	12.6
80°-90°	184.8	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°	11074.0	100.0
0°-180°	11074.0	100.0

Coefficient of Utilization



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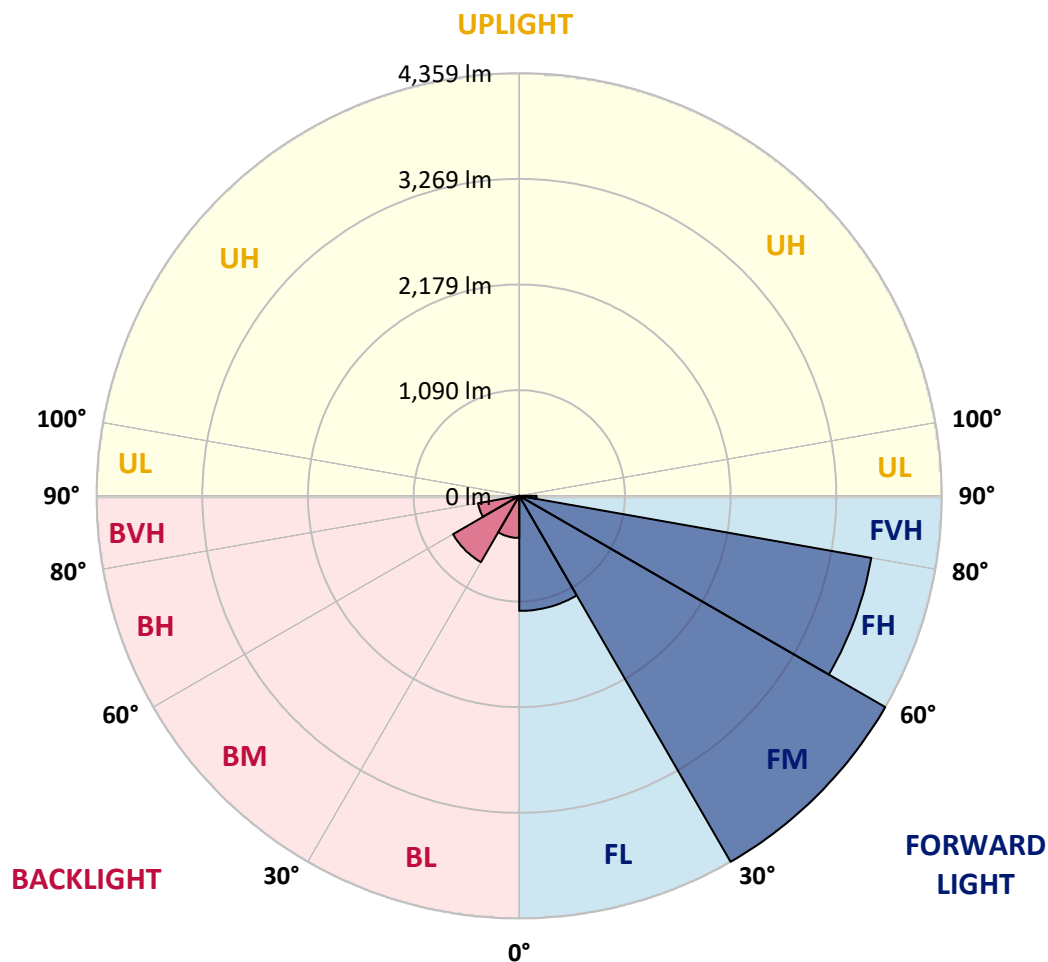
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1187.1	10.7			
FM	(30°-60°)	4358.5	39.4			
FH	(60°-80°)	3687.3	33.3			G2/5000
FVH	(80°-90°)	179.2	1.6			G2/225
BL	(0°-30°)	434.6	3.9	B1/500		
BM	(30°-60°)	790.0	7.1	B1/1000		
BH	(60°-80°)	431.6	3.9	B1/500		G1/500
BVH	(80°-90°)	5.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1
2.5°	4027.3	4033.6	4066.1	4141.6	4224.0	4230.3	4285.9	4228.7	4209.3	4117.0	4021.5
5°	4057.7	4081.8	4193.6	4415.5	4608.0	4669.9	4714.0	4601.7	4483.7	4258.1	4017.3
7.5°	3812.7	3853.1	4028.8	4445.4	4789.5	4941.6	4970.5	4794.7	4505.7	4134.3	3772.3
10°	3499.0	3545.2	3757.1	4269.1	4741.8	5002.5	5042.3	4812.1	4396.6	3933.9	3507.4
12.5°	3245.1	3299.1	3515.8	4070.8	4577.6	4866.1	4944.8	4753.8	4302.2	3791.7	3326.4
15°	3128.1	3190.0	3417.7	3942.8	4395.5	4622.7	4687.7	4605.4	4249.7	3769.2	3284.5
17.5°	3195.3	3262.4	3497.4	3953.8	4224.5	4321.6	4374.0	4407.6	4249.7	3905.0	3407.2
20°	3470.7	3543.1	3791.7	4065.6	4082.9	4046.7	4102.8	4220.8	4299.0	4163.1	3702.0
22.5°	3851.5	3936.5	4217.2	4257.0	4013.6	3876.7	3884.1	4069.2	4388.7	4490.5	4111.2
25°	4315.8	4419.7	4705.0	4542.4	4042.5	3775.5	3772.8	3944.4	4476.3	4818.3	4567.1
27.5°	4776.9	4891.3	5142.0	4890.7	4161.6	3757.1	3751.9	3906.6	4561.8	5110.0	5064.9
30°	5163.5	5274.7	5490.9	5143.1	4290.1	3800.1	3774.9	3947.0	4612.7	5299.4	5427.9
32.5°	5478.3	5567.5	5742.1	5316.7	4427.5	3883.5	3829.0	4055.1	4699.3	5459.4	5761.6
35°	5824.5	5918.4	5988.2	5482.0	4581.8	4003.7	3925.5	4226.6	4832.5	5622.0	6127.2
37.5°	6219.5	6312.9	6304.5	5633.0	4777.4	4202.5	4152.6	4498.3	5039.7	5783.1	6535.3
40°	6606.1	6701.6	6633.4	5798.3	5007.2	4530.3	4493.6	4906.5	5317.2	5989.2	7013.8
42.5°	6968.1	7071.5	6925.6	5954.6	5281.0	4943.7	5006.7	5432.1	5664.5	6243.1	7426.1
45°	7259.8	7365.2	7170.6	6106.7	5569.6	5445.2	5634.6	6014.4	6082.1	6457.7	7704.6
47.5°	7471.7	7571.4	7340.6	6258.9	5938.9	6058.5	6388.4	6625.0	6459.3	6643.9	7902.4
50°	7607.1	7684.7	7390.4	6449.3	6423.6	6774.0	7173.8	7289.2	6814.4	6811.8	8142.7
52.5°	7693.1	7728.2	7427.1	6648.1	6929.3	7553.0	7942.8	7979.0	7180.0	6996.4	8466.3
55°	7989.5	8017.8	7687.3	6888.9	7347.4	8235.5	8638.4	8604.8	7593.9	7357.9	8848.2
57.5°	8495.2	8525.1	8225.0	7235.1	7685.7	8657.3	9142.5	9202.9	8079.2	7865.7	9257.4
60°	8749.1	8804.7	8697.7	7673.7	8013.6	8926.9	9486.1	9678.7	8685.6	8535.1	9654.0
62.5°	8518.8	8599.6	8754.9	8160.0	8339.4	9075.4	9593.2	9849.2	9306.7	9315.1	9898.5
65°	8059.3	8123.8	8387.1	8426.5	8528.2	9057.0	9328.8	9611.0	9687.1	10031.7	9885.4
67.5°	7504.2	7528.4	7751.8	8447.5	8254.4	8505.2	8534.5	8743.3	9386.5	10285.6	9488.2
70°	6705.3	6718.4	6913.6	7745.0	7093.5	7148.6	7105.0	7147.5	8069.7	9667.1	8485.7
72.5°	5396.4	5429.5	5707.0	6432.0	5167.7	5008.8	5350.8	5331.9	6214.8	8167.3	6302.4
75°	3973.2	4030.4	4449.6	5180.8	3627.0	3280.8	3530.5	3597.1	4418.1	6317.6	3941.2
77.5°	2781.9	2824.4	3230.4	3808.5	2625.0	2346.0	2255.7	2334.9	2916.2	4570.2	1985.6
80°	1602.6	1618.4	1877.5	2199.1	1768.9	2023.9	1833.4	1888.0	1747.4	2033.3	854.0
82.5°	1048.7	1051.3	1152.5	1308.8	1101.6	1280.0	947.4	1211.3	1074.9	816.8	278.0
85°	566.6	569.7	668.3	929.0	623.7	352.5	207.2	425.4	664.7	187.3	76.1
87.5°	62.4	57.2	201.4	337.8	173.1	32.0	11.0	47.7	106.5	12.1	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°	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1
2.5°	3972.7	3929.2	3820.6	3705.7	3613.4	3526.8	3439.7	3333.2	3250.9	3234.1	3206.8
5°	3887.7	3749.8	3522.1	3293.4	3109.2	2876.8	2729.4	2614.6	2502.3	2495.5	2472.9
7.5°	3590.8	3409.3	3088.8	2772.5	2513.3	2291.9	2068.5	1918.9	1801.4	1760.0	1735.3
10°	3305.4	3101.4	2701.1	2340.2	2108.8	1913.2	1755.8	1599.5	1457.8	1360.3	1316.2
12.5°	3106.1	2880.5	2439.3	2128.3	1962.5	1776.8	1584.8	1389.6	1226.5	1109.0	1037.1
15°	3029.0	2788.2	2351.7	2044.3	1839.7	1604.7	1359.2	1136.3	955.3	848.8	784.3
17.5°	3120.8	2840.6	2344.9	1942.0	1656.1	1363.9	1092.7	829.4	658.9	578.1	536.7
20°	3353.7	3007.5	2342.3	1816.7	1437.9	1078.6	740.2	545.6	442.2	397.1	377.7
22.5°	3683.1	3220.5	2363.3	1692.8	1210.8	770.6	510.9	400.8	347.8	323.7	312.7
25°	4107.0	3519.5	2422.6	1580.6	997.2	574.9	398.2	335.7	298.5	279.6	271.7
27.5°	4558.7	3863.6	2514.9	1483.0	823.6	458.5	341.0	287.5	260.7	247.6	240.3
30°	4931.1	4262.3	2608.3	1374.4	697.7	399.7	312.1	262.3	231.3	223.0	216.1
32.5°	5256.9	4563.9	2674.4	1276.3	615.3	355.1	282.2	234.5	213.5	197.2	189.9
35°	5594.2	4815.2	2672.3	1207.6	558.7	321.6	257.0	209.8	184.7	165.8	160.0
37.5°	5959.3	5099.0	2626.6	1148.8	534.0	294.8	242.9	196.7	171.5	152.7	145.3
40°	6386.9	5397.0	2579.9	1093.8	527.2	273.3	232.9	186.2	159.5	141.1	133.8
42.5°	6803.4	5665.6	2539.0	1052.8	497.8	272.8	224.0	178.4	150.0	132.2	123.8
45°	7136.5	5915.8	2531.1	1028.2	466.9	282.2	219.3	173.1	142.7	124.9	117.0
47.5°	7413.5	6187.5	2581.5	1010.9	437.5	257.6	230.8	169.4	135.9	118.6	109.6
50°	7742.9	6521.2	2700.1	982.6	406.6	231.9	264.4	170.5	130.1	112.3	102.8
52.5°	8202.5	6982.8	2874.2	934.8	364.1	208.3	260.2	171.5	123.8	105.4	96.0
55°	8717.6	7559.3	3061.5	855.6	304.8	177.3	223.0	164.2	111.7	98.1	89.2
57.5°	9259.0	8082.3	3172.7	761.2	242.4	153.2	178.4	149.5	98.6	88.1	82.4
60°	9344.0	8281.2	3121.8	645.2	192.5	133.2	132.2	152.1	88.1	77.6	73.4
62.5°	9132.6	8031.5	2875.8	541.9	161.0	117.0	108.6	132.7	79.7	69.2	65.0
65°	8726.0	7356.3	2477.1	488.4	149.5	100.2	90.2	93.4	69.8	60.3	56.7
67.5°	8160.5	6455.1	2033.8	458.0	147.9	86.0	77.1	70.8	60.3	52.5	49.3
70°	7004.3	5377.6	1622.6	441.2	143.7	72.4	65.0	57.7	50.4	44.6	42.0
72.5°	5155.1	3810.6	1262.2	422.8	144.8	57.7	56.7	47.7	40.4	34.6	33.6
75°	2978.6	2177.0	827.8	342.6	138.0	44.6	47.2	33.6	28.3	24.1	24.1
77.5°	1587.4	1327.7	315.3	142.7	50.4	28.3	26.8	19.9	17.8	14.7	14.2
80°	691.9	584.4	95.0	39.9	27.8	15.2	10.0	8.9	7.9	6.3	5.8
82.5°	245.0	211.4	31.0	19.4	12.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	55.6	39.9	0.0	4.7	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°	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1
2.5°	3151.2	3139.7	3071.5	3074.1	3086.2	3103.5	3062.5	3081.4	3132.3	3181.1	3199.5
5°	2436.7	2439.3	2397.9	2423.6	2446.7	2462.4	2396.3	2397.4	2437.8	2492.8	2521.7
7.5°	1717.0	1712.8	1714.9	1776.3	1819.8	1788.3	1813.0	1727.5	1732.7	1772.1	1742.7
10°	1276.3	1218.6	1186.1	1232.3	1280.0	1262.7	1220.2	1192.4	1211.8	1255.3	1252.2
12.5°	1003.0	920.1	871.3	838.3	877.6	845.1	844.1	819.9	793.7	798.4	868.2
15°	754.4	694.0	636.3	583.3	582.3	571.3	515.1	452.2	446.9	450.1	486.3
17.5°	518.8	498.4	474.8	429.1	417.0	370.9	316.3	291.1	278.6	284.3	296.4
20°	364.6	356.7	359.3	334.7	317.4	273.3	241.3	231.3	229.2	235.0	240.8
22.5°	302.2	288.0	286.4	275.4	258.1	226.1	208.8	203.0	200.4	205.6	209.8
25°	264.4	250.2	244.5	237.6	219.3	197.2	186.8	181.5	178.9	182.0	184.7
27.5°	232.9	219.8	214.6	209.8	192.0	176.3	167.9	163.1	161.0	162.1	164.7
30°	209.3	197.8	191.0	185.2	170.0	159.0	151.6	146.9	144.8	144.8	147.4
32.5°	184.7	178.4	172.1	164.7	150.6	143.2	135.9	130.6	128.5	129.0	131.1
35°	153.7	151.6	153.2	146.4	134.3	128.0	120.7	114.9	113.3	113.8	115.9
37.5°	136.4	127.0	132.7	129.0	122.2	113.8	104.4	99.1	96.5	98.1	99.1
40°	125.4	113.8	109.6	113.3	112.3	98.6	90.2	85.0	82.9	83.4	84.5
42.5°	115.9	102.3	92.9	92.3	98.6	86.0	77.1	72.4	69.8	69.8	70.8
45°	107.0	92.3	80.8	71.9	82.9	72.9	64.5	60.3	57.2	57.2	57.7
47.5°	100.2	83.9	70.3	58.8	62.4	59.8	53.0	48.8	45.6	45.6	46.2
50°	93.9	75.5	60.9	49.3	46.7	49.3	43.0	38.3	36.2	35.7	36.7
52.5°	87.1	67.1	51.9	42.0	36.7	37.2	33.6	30.4	27.8	27.8	28.9
55°	80.3	60.3	45.1	35.7	30.4	27.8	26.8	24.7	22.6	22.6	23.6
57.5°	73.4	53.0	38.3	29.4	24.1	22.0	22.0	20.5	18.9	18.9	19.9
60°	67.1	45.6	31.5	24.1	18.9	18.4	18.9	17.3	16.3	16.3	17.3
62.5°	59.8	38.8	25.7	19.9	15.2	14.7	16.3	15.2	14.2	14.2	15.2
65°	50.9	33.0	20.5	15.2	11.5	11.5	13.6	12.6	11.5	11.5	12.6
67.5°	43.0	27.8	15.7	11.0	8.4	8.9	11.5	10.5	10.0	10.0	11.0
70°	35.7	21.5	11.0	6.8	4.7	6.8	8.9	8.9	8.9	8.9	10.0
72.5°	26.8	14.7	6.3	2.6	2.1	4.7	7.3	8.4	7.9	7.9	9.4
75°	17.3	8.4	2.1	0.0	0.0	2.6	5.8	6.8	6.8	6.3	7.9
77.5°	10.0	2.6	0.0	0.0	0.0	0.0	3.7	3.1	2.6	2.1	3.7
80°	2.6	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-SA4A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1	3715.1
2.5°	3273.4	3335.3	3422.4	3514.7	3656.9	3769.7	3880.4	3975.3	4012.1	4027.3
5°	2590.9	2681.7	2809.2	2972.8	3229.4	3460.2	3694.2	3929.7	4032.0	4057.7
7.5°	1859.1	1975.1	2137.2	2342.3	2642.9	2941.9	3268.7	3614.4	3772.8	3812.7
10°	1376.0	1517.6	1703.3	1919.5	2206.4	2513.8	2870.0	3265.0	3446.0	3499.0
12.5°	976.3	1167.7	1416.4	1679.2	1927.9	2202.2	2562.6	2998.0	3187.9	3245.1
15°	573.4	758.6	1052.8	1404.8	1723.3	2001.3	2367.5	2861.1	3070.4	3128.1
17.5°	328.9	421.2	643.7	1036.1	1468.3	1853.4	2306.1	2895.2	3141.8	3195.3
20°	251.3	280.7	370.9	667.3	1170.4	1708.1	2306.1	3088.3	3392.0	3470.7
22.5°	219.8	241.3	278.0	398.2	861.4	1552.3	2332.8	3367.3	3764.4	3851.5
25°	195.1	214.6	246.0	299.5	587.5	1367.1	2396.3	3709.9	4203.0	4315.8
27.5°	174.7	193.0	221.4	262.3	401.8	1143.6	2481.8	4111.7	4686.7	4776.9
30°	156.3	173.6	199.3	228.2	310.0	890.2	2554.7	4490.5	5066.5	5163.5
32.5°	139.0	154.8	177.8	199.3	253.9	658.4	2562.6	4790.5	5381.8	5478.3
35°	122.8	136.9	157.9	174.7	210.4	519.9	2440.4	5050.7	5697.0	5824.5
37.5°	107.0	120.7	139.0	151.6	185.2	423.9	2253.6	5340.8	6101.5	6219.5
40°	92.3	104.4	123.3	131.7	175.2	325.8	2050.6	5645.1	6498.1	6606.1
42.5°	78.7	90.2	108.6	124.9	153.7	243.4	1831.3	5930.5	6854.8	6968.1
45°	65.6	77.6	96.0	132.2	127.5	182.0	1596.8	6119.9	7136.5	7259.8
47.5°	53.0	66.6	91.8	125.9	101.8	133.8	1411.1	6299.3	7350.0	7471.7
50°	42.5	56.1	103.3	112.3	83.4	102.3	1333.5	6459.8	7490.1	7607.1
52.5°	34.6	47.2	97.6	86.0	69.8	84.5	1375.5	6720.0	7619.7	7693.1
55°	28.9	37.2	58.8	59.8	59.3	71.9	1427.4	7093.5	7954.9	7989.5
57.5°	25.2	29.9	40.9	46.2	49.8	64.0	1428.5	7629.6	8473.7	8495.2
60°	21.5	26.2	34.1	37.2	43.0	57.2	1376.5	7816.9	8677.7	8749.1
62.5°	18.9	23.1	28.3	31.0	36.2	51.4	1254.8	7545.7	8397.6	8518.8
65°	16.8	21.0	23.6	26.2	32.0	46.2	1054.4	7003.3	7932.8	8059.3
67.5°	14.7	18.4	21.0	23.6	28.9	40.9	776.4	6373.2	7399.3	7504.2
70°	13.1	16.3	18.9	21.0	25.2	34.6	471.1	5408.0	6661.8	6705.3
72.5°	12.6	14.7	17.3	18.9	22.0	30.4	238.7	3974.3	5325.6	5396.4
75°	11.0	13.1	15.7	16.8	19.4	26.2	97.0	2610.4	3859.4	3973.2
77.5°	8.9	12.1	14.2	15.2	16.8	21.5	49.3	1668.2	2708.5	2781.9
80°	3.1	8.9	12.1	12.6	14.2	15.7	32.5	913.3	1571.1	1602.6
82.5°	0.0	5.8	9.4	8.9	10.0	12.1	21.0	434.4	1037.1	1048.7
85°	0.0	2.6	7.3	5.8	4.2	8.4	7.3	95.0	544.0	566.6
87.5°	0.0	0.0	0.5	2.6	2.1	3.1	1.0	0.5	49.3	62.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)