

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: P324097

Luminaire Tested: **GAN-SA3D-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324097
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-SA3D-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA 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: 14685 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

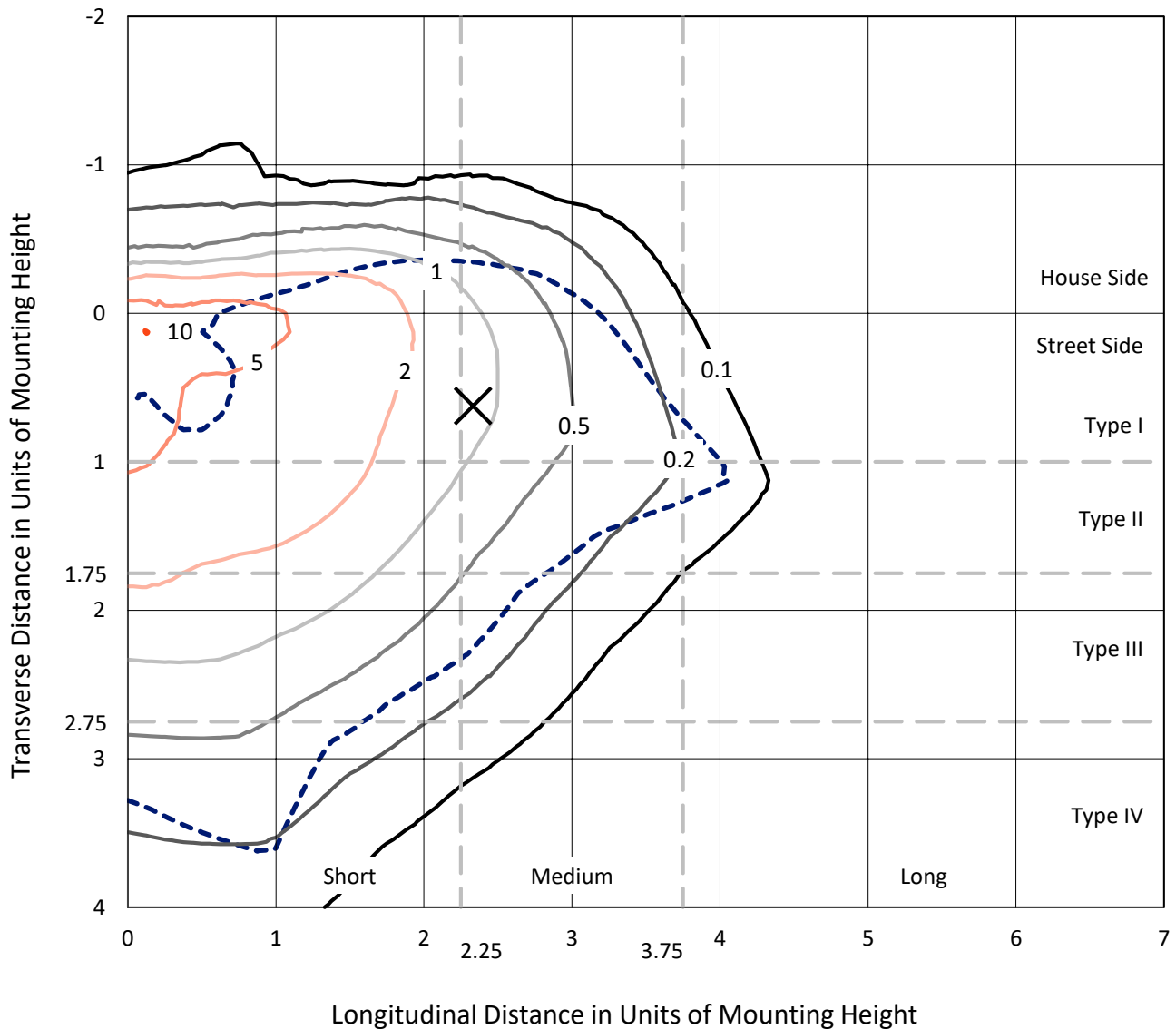
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

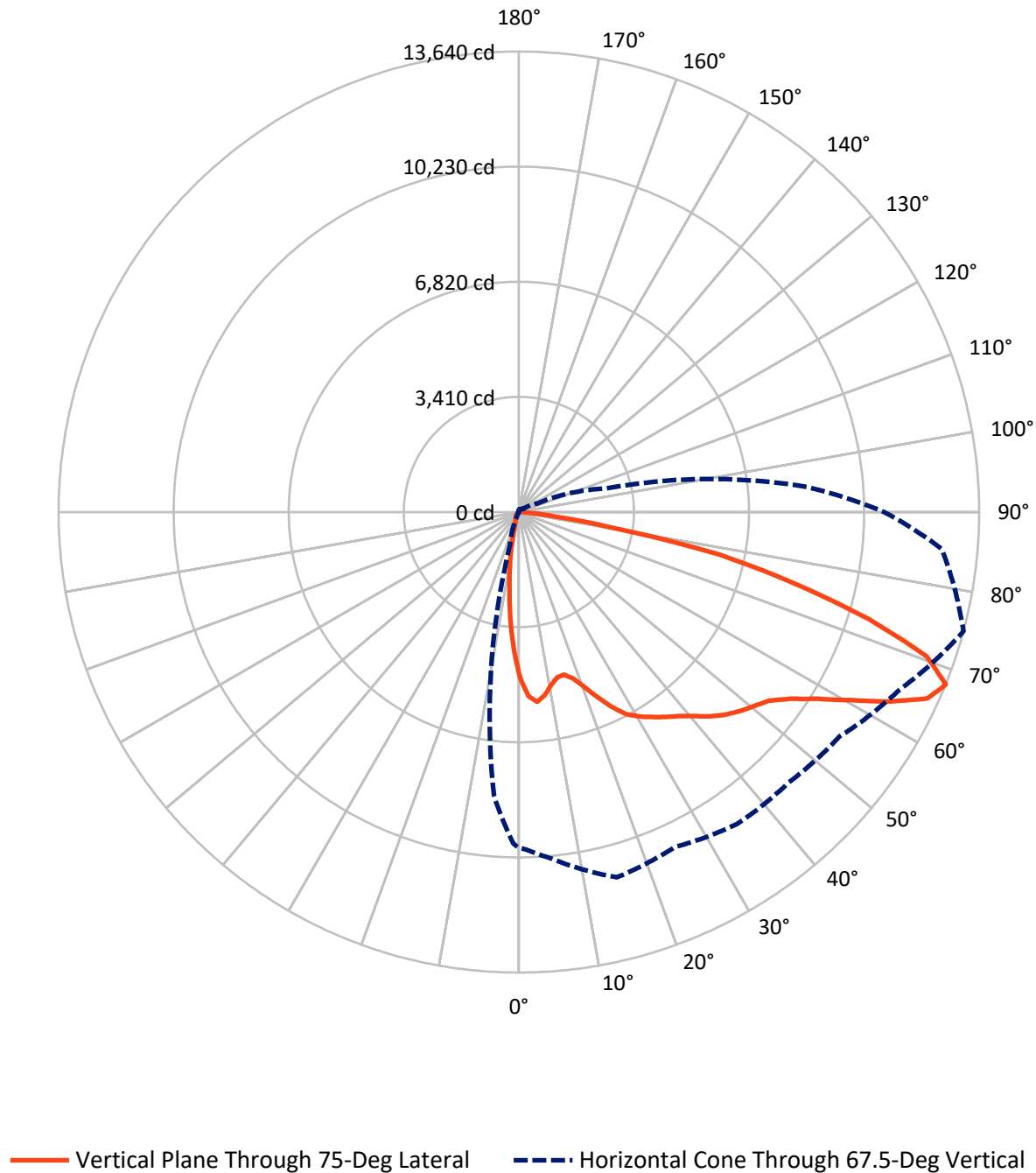
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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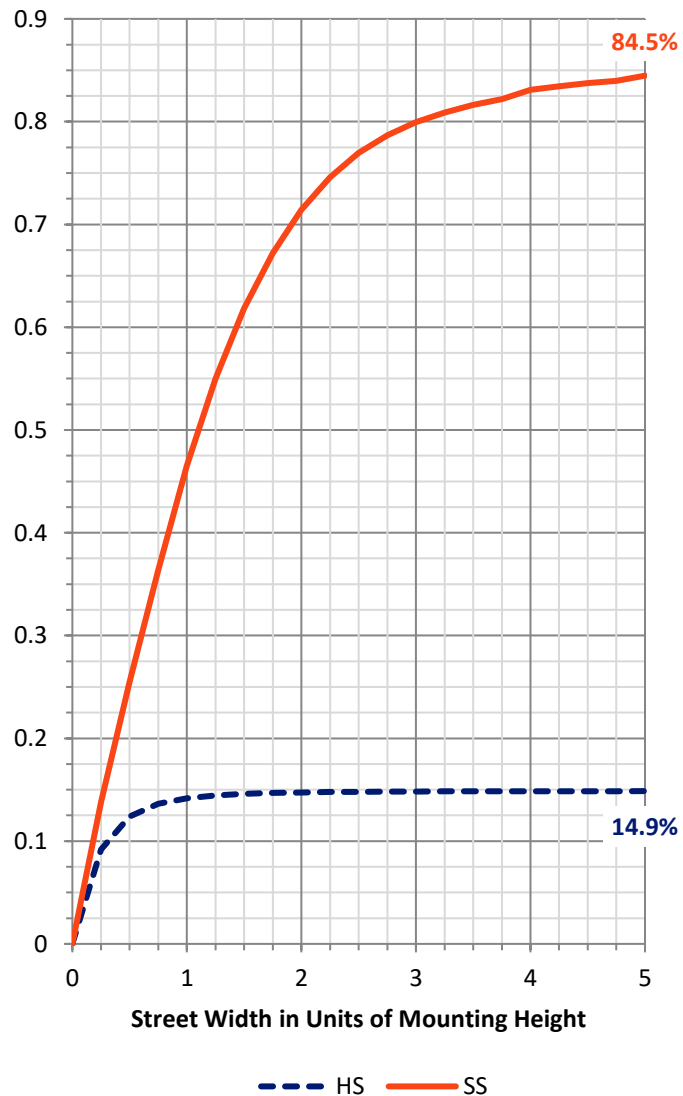
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2203.6	0.0	2203.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	12481.4	0.0	12481.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	14685.0	0.0	14685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.7	2.5
10°-20°	735.8	5.0
20°-30°	1041.0	7.1
30°-40°	1530.5	10.4
40°-50°	2199.9	15.0
50°-60°	3096.9	21.1
60°-70°	3616.9	24.6
70°-80°	1845.2	12.6
80°-90°	245.1	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°	14685.0	100.0
0°-180°	14685.0	100.0

Coefficient of Utilization



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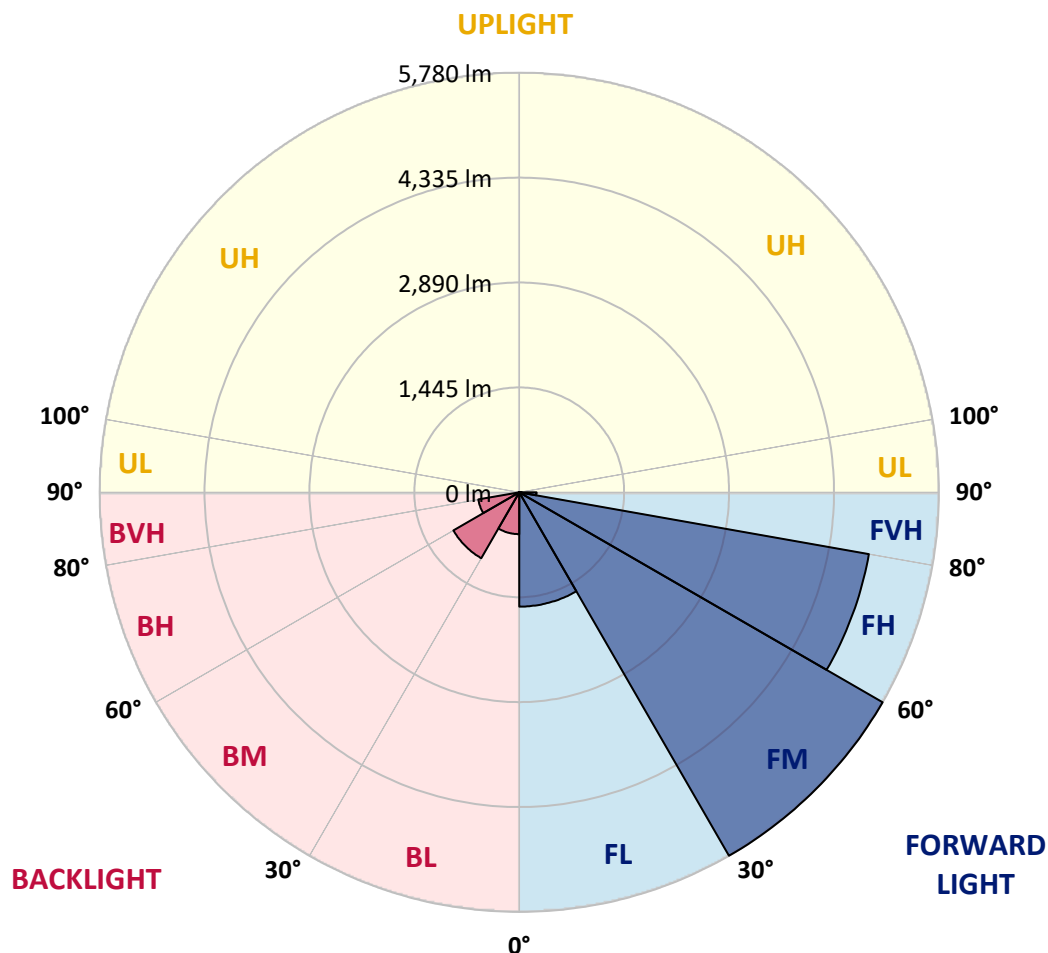
CATALOG NUMBER: GAN-SA3D-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1574.2	10.7			
FM	(30°-60°)	5779.8	39.4			
FH	(60°-80°)	4889.7	33.3			G2/5000
FVH	(80°-90°)	237.7	1.6			G3/500
BL	(0°-30°)	576.3	3.9	B2/1000		
BM	(30°-60°)	1047.5	7.1	B2/2500		
BH	(60°-80°)	572.4	3.9	B2/1000		G2/1000
BVH	(80°-90°)	7.4	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°	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6
2.5°	5340.5	5348.8	5392.0	5492.1	5601.3	5609.7	5683.4	5607.6	5581.9	5459.4	5332.8
5°	5380.8	5412.8	5561.0	5855.3	6110.6	6192.6	6251.1	6102.2	5945.7	5646.6	5327.3
7.5°	5056.0	5109.5	5342.6	5894.9	6351.2	6553.0	6591.2	6358.2	5974.9	5482.4	5002.4
10°	4640.0	4701.2	4982.2	5661.2	6287.9	6633.7	6686.6	6381.2	5830.2	5216.7	4651.1
12.5°	4303.3	4374.9	4662.2	5398.2	6070.2	6452.8	6557.2	6303.9	5705.0	5028.1	4411.1
15°	4148.1	4230.2	4532.1	5228.5	5828.8	6130.0	6216.3	6107.1	5635.4	4998.2	4355.4
17.5°	4237.2	4326.2	4637.9	5243.1	5602.0	5730.7	5800.3	5844.8	5635.4	5178.4	4518.2
20°	4602.4	4698.4	5028.1	5391.3	5414.2	5366.2	5440.6	5597.2	5700.8	5520.6	4909.2
22.5°	5107.4	5220.1	5592.3	5645.2	5322.4	5140.8	5150.6	5396.1	5819.8	5954.7	5451.8
25°	5723.1	5860.8	6239.3	6023.6	5360.6	5006.6	5003.1	5230.6	5935.9	6389.5	6056.3
27.5°	6334.6	6486.2	6818.7	6485.5	5518.6	4982.2	4975.3	5180.5	6049.3	6776.3	6716.5
30°	6847.2	6994.7	7281.3	6820.1	5689.0	5039.3	5005.9	5234.0	6116.8	7027.4	7197.9
32.5°	7264.6	7382.9	7614.5	7050.4	5871.3	5149.9	5077.5	5377.3	6231.6	7239.6	7640.3
35°	7723.8	7848.3	7940.8	7269.5	6075.8	5309.2	5205.5	5604.8	6408.3	7455.2	8125.1
37.5°	8247.6	8371.4	8360.3	7469.8	6335.2	5572.8	5506.7	5965.2	6683.1	7668.8	8666.4
40°	8760.3	8886.9	8796.4	7689.0	6639.9	6007.6	5958.9	6506.4	7051.1	7942.2	9300.8
42.5°	9240.3	9377.3	9183.9	7896.3	7003.1	6555.8	6639.2	7203.4	7511.6	8278.9	9847.6
45°	9627.0	9766.9	9508.8	8098.0	7385.7	7220.8	7471.9	7975.6	8065.3	8563.4	10217.0
47.5°	9908.1	10040.3	9734.2	8299.8	7875.4	8034.0	8471.6	8785.3	8565.5	8810.4	10479.2
50°	10087.6	10190.5	9800.3	8552.3	8518.2	8982.9	9513.0	9666.0	9036.4	9033.0	10797.8
52.5°	10201.7	10248.3	9849.0	8815.9	9188.8	10015.9	10532.8	10580.8	9521.3	9277.8	11227.0
55°	10594.7	10632.3	10194.0	9135.2	9743.2	10920.9	11455.2	11410.7	10070.2	9757.1	11733.5
57.5°	11265.3	11304.9	10907.0	9594.4	10191.9	11480.2	12123.7	12203.7	10713.6	10430.5	12276.1
60°	11602.0	11675.7	11533.8	10175.9	10626.7	11837.8	12579.4	12834.7	11517.8	11318.2	12802.0
62.5°	11296.6	11403.7	11609.6	10820.8	11058.7	12034.7	12721.3	13060.8	12341.5	12352.6	13126.1
65°	10687.2	10772.8	11122.0	11174.2	11309.1	12010.3	12370.7	12744.9	12845.8	13302.8	13108.8
67.5°	9951.2	9983.2	10279.6	11202.0	10946.0	11278.5	11317.5	11594.3	12447.2	13639.5	12582.2
70°	8891.7	8909.1	9167.9	10270.5	9406.5	9479.6	9421.8	9478.2	10701.1	12819.4	11252.8
72.5°	7156.1	7199.9	7567.9	8529.3	6852.8	6642.0	7095.6	7070.5	8241.3	10830.5	8357.5
75°	5268.8	5344.6	5900.5	6870.2	4809.7	4350.6	4681.7	4770.0	5858.7	8377.7	5226.4
77.5°	3689.0	3745.4	4283.8	5050.4	3481.0	3110.9	2991.3	3096.3	3867.1	6060.5	2633.0
80°	2125.2	2146.1	2489.7	2916.1	2345.7	2683.8	2431.3	2503.6	2317.2	2696.3	1132.5
82.5°	1390.6	1394.1	1528.3	1735.6	1460.9	1697.4	1256.3	1606.2	1425.4	1083.1	368.7
85°	751.3	755.5	886.3	1232.0	827.1	467.5	274.8	564.2	881.4	248.3	100.9
87.5°	82.8	75.8	267.1	448.0	229.6	42.4	14.6	63.3	141.2	16.0	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°	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6
2.5°	5268.1	5210.4	5066.4	4914.0	4791.6	4676.8	4561.4	4420.1	4310.9	4288.7	4252.5
5°	5155.4	4972.5	4670.6	4367.3	4123.1	3814.9	3619.4	3467.1	3318.2	3309.2	3279.3
7.5°	4761.7	4521.0	4096.0	3676.5	3332.8	3039.3	2742.9	2544.7	2388.8	2333.9	2301.2
10°	4383.3	4112.7	3581.9	3103.3	2796.5	2537.0	2328.3	2121.0	1933.2	1803.8	1745.4
12.5°	4118.9	3819.8	3234.8	2822.2	2602.4	2356.2	2101.5	1842.8	1626.4	1470.6	1375.3
15°	4016.7	3697.4	3118.6	2710.9	2439.6	2128.0	1802.4	1506.8	1266.8	1125.6	1040.0
17.5°	4138.4	3766.9	3109.5	2575.3	2196.2	1808.7	1449.0	1099.8	873.7	766.6	711.6
20°	4447.3	3988.1	3106.1	2409.0	1906.8	1430.2	981.6	723.5	586.4	526.6	500.9
22.5°	4884.1	4270.6	3133.9	2244.9	1605.6	1021.9	677.6	531.5	461.2	429.2	414.6
25°	5446.2	4667.1	3212.5	2096.0	1322.4	762.4	528.0	445.2	395.8	370.8	360.3
27.5°	6045.2	5123.4	3334.9	1966.6	1092.2	608.0	452.2	381.2	345.7	328.3	318.6
30°	6539.1	5652.1	3458.8	1822.6	925.2	530.1	413.9	347.8	306.8	295.6	286.6
32.5°	6971.1	6052.1	3546.4	1692.5	816.0	471.0	374.3	311.0	283.1	261.6	251.8
35°	7418.4	6385.3	3543.6	1601.4	740.9	426.4	340.9	278.3	244.9	219.8	212.2
37.5°	7902.5	6761.7	3483.1	1523.5	708.2	391.0	322.1	260.9	227.5	202.4	192.7
40°	8469.5	7156.8	3421.2	1450.4	699.1	362.4	308.9	247.0	211.5	187.1	177.4
42.5°	9021.8	7513.0	3366.9	1396.2	660.2	361.7	297.0	236.5	199.0	175.3	164.2
45°	9463.6	7844.8	3356.5	1363.5	619.1	374.3	290.8	229.6	189.2	165.6	155.1
47.5°	9830.9	8205.1	3423.3	1340.5	580.2	341.6	306.1	224.7	180.2	157.2	145.4
50°	10267.7	8647.6	3580.5	1302.9	539.1	307.5	350.6	226.1	172.5	148.9	136.3
52.5°	10877.1	9259.7	3811.4	1239.6	482.8	276.2	345.0	227.5	164.2	139.8	127.3
55°	11560.2	10024.3	4059.8	1134.6	404.2	235.1	295.6	217.7	148.2	130.1	118.3
57.5°	12278.2	10717.8	4207.3	1009.4	321.4	203.1	236.5	198.3	130.8	116.9	109.2
60°	12390.9	10981.5	4139.8	855.6	255.3	176.7	175.3	201.7	116.9	103.0	97.4
62.5°	12110.5	10650.3	3813.5	718.6	213.6	155.1	144.0	176.0	105.7	91.8	86.3
65°	11571.4	9755.0	3284.8	647.6	198.3	132.9	119.7	123.8	92.5	80.0	75.1
67.5°	10821.5	8559.9	2697.0	607.3	196.2	114.1	102.3	93.9	80.0	69.6	65.4
70°	9288.3	7131.1	2151.6	585.0	190.6	96.0	86.3	76.5	66.8	59.1	55.7
72.5°	6836.1	5053.2	1673.7	560.7	192.0	76.5	75.1	63.3	53.6	45.9	44.5
75°	3949.9	2886.9	1097.7	454.3	183.0	59.1	62.6	44.5	37.6	32.0	32.0
77.5°	2105.0	1760.7	418.1	189.2	66.8	37.6	35.5	26.4	23.7	19.5	18.8
80°	917.6	774.9	125.9	52.9	36.9	20.2	13.2	11.8	10.4	8.3	7.7
82.5°	324.9	280.3	41.0	25.7	16.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	73.7	52.9	0.0	6.3	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°	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6
2.5°	4178.7	4163.4	4073.0	4076.5	4092.5	4115.4	4061.2	4086.2	4153.7	4218.4	4242.7
5°	3231.3	3234.8	3179.8	3213.9	3244.5	3265.4	3177.7	3179.1	3232.7	3305.7	3344.0
7.5°	2276.8	2271.3	2274.1	2355.5	2413.2	2371.5	2404.2	2290.8	2297.7	2349.9	2310.9
10°	1692.5	1616.0	1572.9	1634.1	1697.4	1674.4	1618.1	1581.2	1606.9	1664.7	1660.5
12.5°	1330.1	1220.2	1155.5	1111.6	1163.8	1120.7	1119.3	1087.3	1052.5	1058.8	1151.3
15°	1000.3	920.3	843.8	773.6	772.2	757.6	683.1	599.6	592.7	596.9	644.9
17.5°	688.0	660.9	629.6	569.0	553.0	491.8	419.5	386.1	369.4	377.0	393.0
20°	483.5	473.0	476.5	443.8	420.9	362.4	320.0	306.8	304.0	311.6	319.3
22.5°	400.7	381.9	379.8	365.2	342.3	299.8	276.9	269.2	265.7	272.7	278.3
25°	350.6	331.8	324.2	315.1	290.8	261.6	247.7	240.7	237.2	241.4	244.9
27.5°	308.9	291.5	284.5	278.3	254.6	233.7	222.6	216.3	213.6	215.0	218.4
30°	277.6	262.3	253.2	245.6	225.4	210.8	201.0	194.8	192.0	192.0	195.5
32.5°	244.9	236.5	228.2	218.4	199.7	189.9	180.2	173.2	170.4	171.1	173.9
35°	203.8	201.0	203.1	194.1	178.1	169.7	160.0	152.3	150.3	151.0	153.7
37.5°	180.9	168.3	176.0	171.1	162.1	151.0	138.4	131.5	128.0	130.1	131.5
40°	166.3	151.0	145.4	150.3	148.9	130.8	119.7	112.7	109.9	110.6	112.0
42.5°	153.7	135.7	123.1	122.4	130.8	114.1	102.3	96.0	92.5	92.5	93.9
45°	141.9	122.4	107.1	95.3	109.9	96.7	85.6	80.0	75.8	75.8	76.5
47.5°	132.9	111.3	93.2	77.9	82.8	79.3	70.3	64.7	60.5	60.5	61.2
50°	124.5	100.2	80.7	65.4	61.9	65.4	57.0	50.8	48.0	47.3	48.7
52.5°	115.5	89.0	68.9	55.7	48.7	49.4	44.5	40.3	36.9	36.9	38.3
55°	106.4	80.0	59.8	47.3	40.3	36.9	35.5	32.7	29.9	29.9	31.3
57.5°	97.4	70.3	50.8	39.0	32.0	29.2	29.2	27.1	25.0	25.0	26.4
60°	89.0	60.5	41.7	32.0	25.0	24.3	25.0	23.0	21.6	21.6	23.0
62.5°	79.3	51.5	34.1	26.4	20.2	19.5	21.6	20.2	18.8	18.8	20.2
65°	67.5	43.8	27.1	20.2	15.3	15.3	18.1	16.7	15.3	15.3	16.7
67.5°	57.0	36.9	20.9	14.6	11.1	11.8	15.3	13.9	13.2	13.2	14.6
70°	47.3	28.5	14.6	9.0	6.3	9.0	11.8	11.8	11.8	11.8	13.2
72.5°	35.5	19.5	8.3	3.5	2.8	6.3	9.7	11.1	10.4	10.4	12.5
75°	23.0	11.1	2.8	0.0	0.0	3.5	7.7	9.0	9.0	8.3	10.4
77.5°	13.2	3.5	0.0	0.0	0.0	0.0	4.9	4.2	3.5	2.8	4.9
80°	3.5	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-SA3D-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6	4926.6
2.5°	4340.8	4422.9	4538.4	4660.8	4849.3	4998.9	5145.7	5271.6	5320.3	5340.5
5°	3435.8	3556.1	3725.2	3942.2	4282.4	4588.5	4898.7	5211.1	5346.7	5380.8
7.5°	2465.4	2619.1	2834.1	3106.1	3504.7	3901.2	4334.6	4793.0	5003.1	5056.0
10°	1824.7	2012.5	2258.8	2545.4	2925.9	3333.5	3805.9	4329.7	4569.7	4640.0
12.5°	1294.6	1548.5	1878.2	2226.8	2556.5	2920.3	3398.2	3975.6	4227.4	4303.3
15°	760.3	1005.9	1396.2	1862.9	2285.2	2653.9	3139.5	3794.1	4071.6	4148.1
17.5°	436.2	558.6	853.6	1373.9	1947.1	2457.7	3058.1	3839.3	4166.2	4237.2
20°	333.2	372.2	491.8	884.9	1552.0	2265.0	3058.1	4095.3	4498.0	4602.4
22.5°	291.5	320.0	368.7	528.0	1142.3	2058.4	3093.5	4465.4	4992.0	5107.4
25°	258.8	284.5	326.3	397.2	779.1	1812.9	3177.7	4919.6	5573.5	5723.1
27.5°	231.7	256.0	293.6	347.8	532.9	1516.5	3291.1	5452.5	6214.9	6334.6
30°	207.3	230.3	264.3	302.6	411.1	1180.5	3387.8	5954.7	6718.6	6847.2
32.5°	184.3	205.2	235.8	264.3	336.7	873.0	3398.2	6352.6	7136.6	7264.6
35°	162.8	181.6	209.4	231.7	279.0	689.4	3236.1	6697.7	7554.7	7723.8
37.5°	141.9	160.0	184.3	201.0	245.6	562.1	2988.5	7082.4	8091.1	8247.6
40°	122.4	138.4	163.5	174.6	232.3	432.0	2719.3	7485.8	8617.0	8760.3
42.5°	104.3	119.7	144.0	165.6	203.8	322.8	2428.5	7864.3	9090.0	9240.3
45°	87.0	103.0	127.3	175.3	169.0	241.4	2117.5	8115.4	9463.6	9627.0
47.5°	70.3	88.3	121.7	167.0	135.0	177.4	1871.3	8353.3	9746.7	9908.1
50°	56.3	74.4	137.0	148.9	110.6	135.7	1768.3	8566.2	9932.4	10087.6
52.5°	45.9	62.6	129.4	114.1	92.5	112.0	1824.0	8911.2	10104.3	10201.7
55°	38.3	49.4	77.9	79.3	78.6	95.3	1892.9	9406.5	10548.8	10594.7
57.5°	33.4	39.7	54.3	61.2	66.1	84.9	1894.2	10117.5	11236.8	11265.3
60°	28.5	34.8	45.2	49.4	57.0	75.8	1825.4	10365.8	11507.4	11602.0
62.5°	25.0	30.6	37.6	41.0	48.0	68.2	1664.0	10006.2	11135.9	11296.6
65°	22.3	27.8	31.3	34.8	42.4	61.2	1398.2	9286.9	10519.6	10687.2
67.5°	19.5	24.3	27.8	31.3	38.3	54.3	1029.6	8451.4	9812.1	9951.2
70°	17.4	21.6	25.0	27.8	33.4	45.9	624.7	7171.4	8834.0	8891.7
72.5°	16.7	19.5	23.0	25.0	29.2	40.3	316.5	5270.2	7062.2	7156.1
75°	14.6	17.4	20.9	22.3	25.7	34.8	128.7	3461.5	5117.9	5268.8
77.5°	11.8	16.0	18.8	20.2	22.3	28.5	65.4	2212.2	3591.6	3689.0
80°	4.2	11.8	16.0	16.7	18.8	20.9	43.1	1211.1	2083.5	2125.2
82.5°	0.0	7.7	12.5	11.8	13.2	16.0	27.8	576.0	1375.3	1390.6
85°	0.0	3.5	9.7	7.7	5.6	11.1	9.7	125.9	721.4	751.3
87.5°	0.0	0.0	0.7	3.5	2.8	4.2	1.4	0.7	65.4	82.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)