

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: P324417

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324417
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-SA3D-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA 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: 14685 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

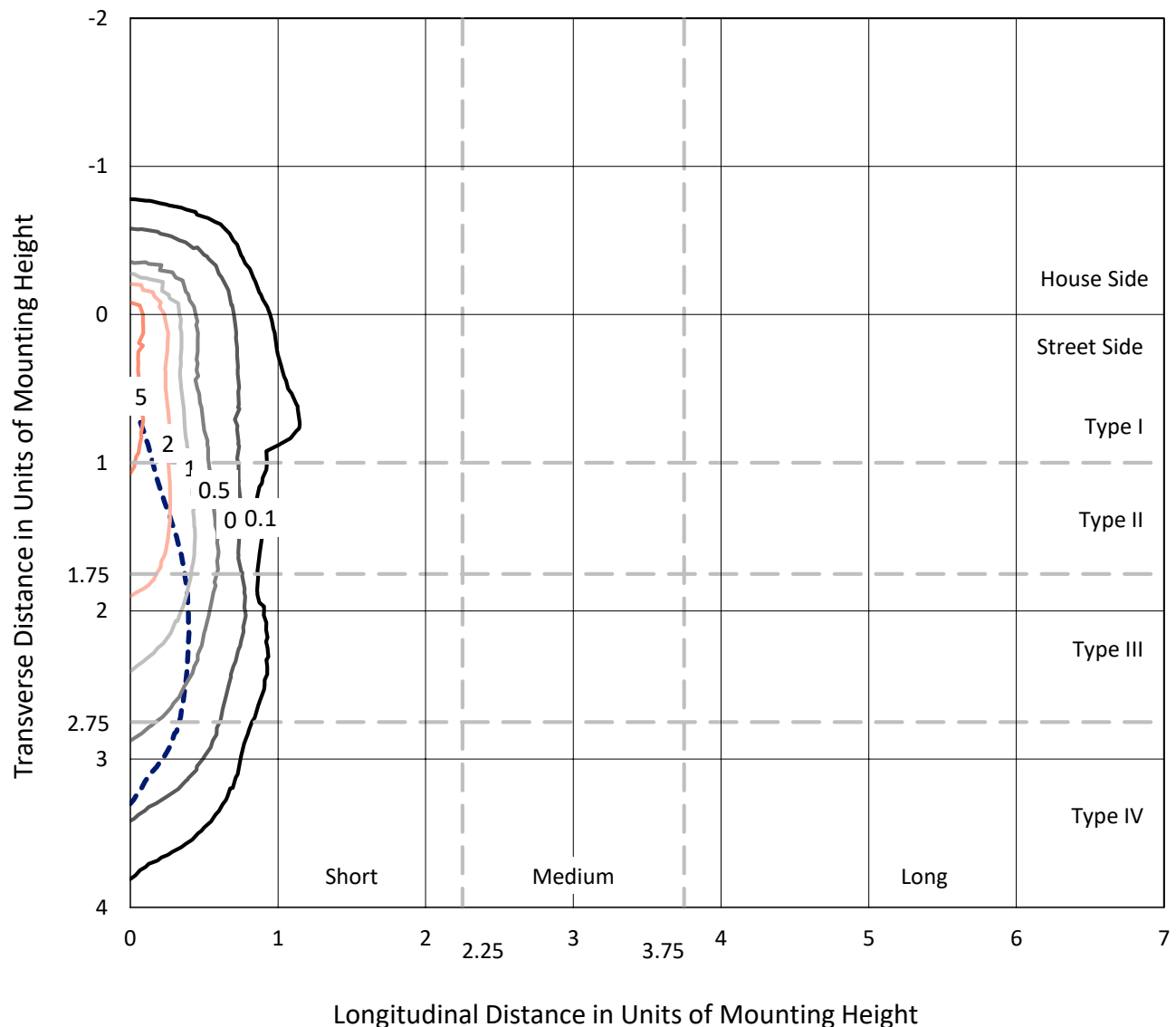
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

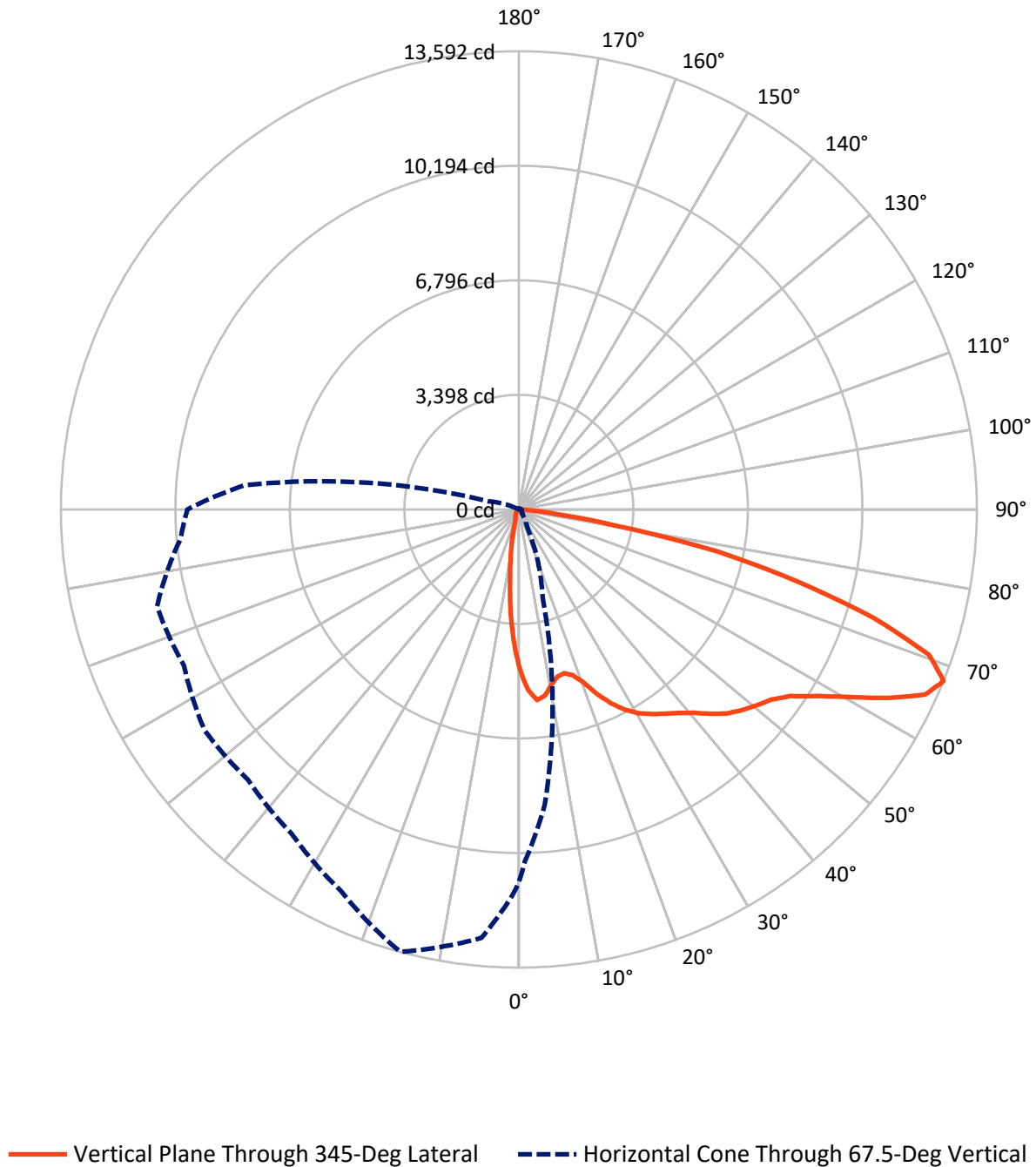
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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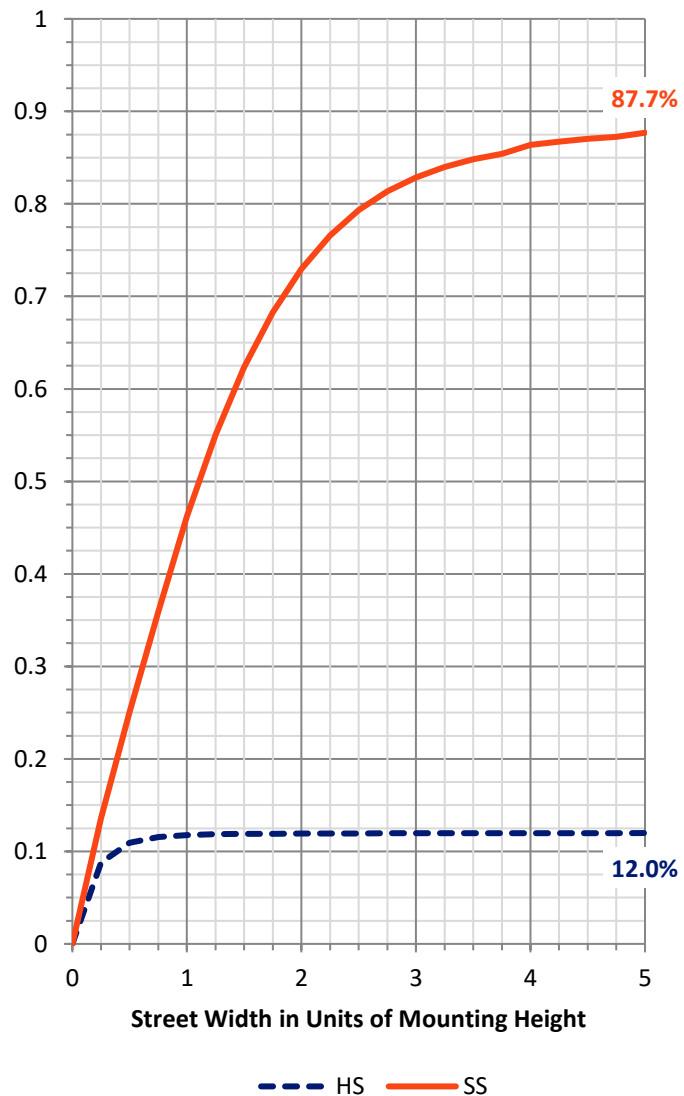
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1777.4	0.0	1777.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	12907.6	0.0	12907.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	14685.0	0.0	14685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.1	2.5
10°-20°	730.8	5.0
20°-30°	1037.7	7.1
30°-40°	1532.8	10.4
40°-50°	2210.6	15.1
50°-60°	3103.2	21.1
60°-70°	3617.4	24.6
70°-80°	1849.3	12.6
80°-90°	236.2	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°	14685.0	100.0
0°-180°	14685.0	100.0

Coefficient of Utilization



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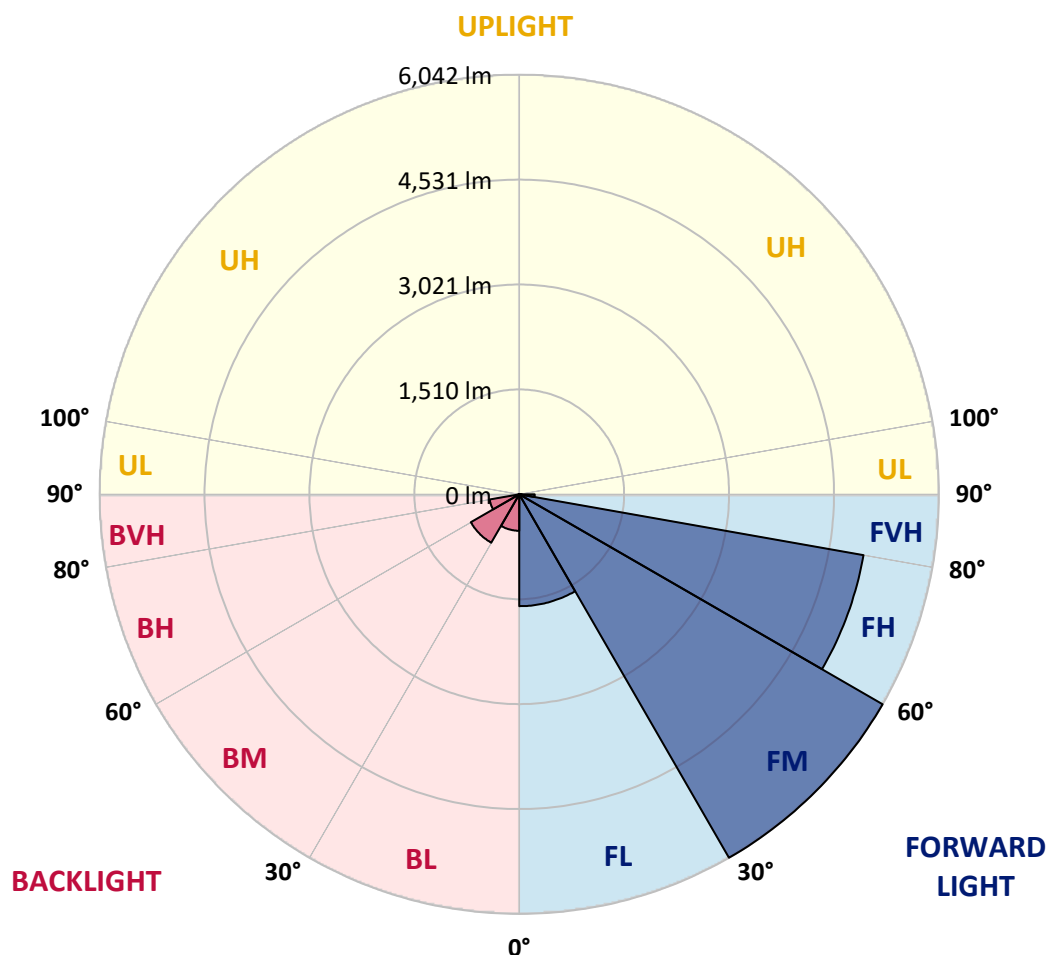
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1610.7	11.0			
FM	(30°-60°)	6041.6	41.1			
FH	(60°-80°)	5033.5	34.3			G3/7500
FVH	(80°-90°)	221.8	1.5			G2/225
BL	(0°-30°)	525.0	3.6	B2/1000		
BM	(30°-60°)	804.9	5.5	B1/1000		
BH	(60°-80°)	433.2	2.9	B1/500		G1/500
BVH	(80°-90°)	14.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6
2.5°	5237.9	5197.6	5153.0	5007.6	4872.7	4718.2	4592.3	4504.6	4394.7	4252.1	4215.9
5°	5200.3	5157.2	5017.4	4693.9	4410.7	4135.2	3869.5	3713.6	3520.2	3324.0	3275.3
7.5°	4822.6	4777.4	4575.6	4132.4	3751.2	3353.3	3008.2	2794.6	2576.2	2396.7	2301.4
10°	4429.5	4380.1	4153.3	3615.5	3145.9	2786.3	2533.0	2329.2	2122.6	1930.6	1777.5
12.5°	4158.9	4094.2	3847.9	3238.5	2829.4	2585.2	2348.7	2104.5	1824.8	1618.9	1450.5
15°	4045.5	3971.7	3711.5	3093.1	2717.4	2430.8	2122.6	1822.7	1495.1	1259.2	1104.8
17.5°	4133.1	4037.1	3758.2	3083.3	2576.9	2186.6	1797.0	1445.0	1089.5	850.8	740.9
20°	4430.9	4305.0	3950.9	3080.5	2406.4	1896.5	1402.5	1004.6	718.0	577.4	519.7
22.5°	4899.8	4733.5	4227.7	3102.8	2230.4	1591.8	1012.9	682.5	539.2	466.1	432.0
25°	5466.1	5273.4	4626.4	3181.4	2076.0	1295.4	736.0	539.2	455.0	401.4	372.9
27.5°	6004.6	5848.0	5130.1	3294.8	1956.3	1056.1	597.6	457.1	388.9	353.4	330.5
30°	6542.3	6345.5	5647.0	3429.8	1812.3	894.0	525.3	416.7	348.5	311.0	296.4
32.5°	6933.3	6769.8	6051.9	3527.2	1658.5	788.2	469.6	381.2	325.6	287.3	265.8
35°	7393.2	7208.1	6399.0	3548.7	1559.8	721.4	422.3	343.0	282.5	248.4	225.4
37.5°	7889.9	7659.6	6799.7	3501.4	1482.5	688.7	386.8	325.6	263.7	228.9	204.5
40°	8439.5	8179.3	7184.5	3433.3	1406.7	677.6	359.7	312.4	249.1	213.6	188.5
42.5°	9018.3	8711.5	7517.7	3361.6	1358.7	639.3	356.9	299.1	237.9	199.7	174.6
45°	9504.6	9193.6	7860.0	3338.0	1324.6	597.6	368.7	290.1	230.3	188.5	164.2
47.5°	9892.1	9597.8	8210.6	3390.8	1305.1	559.3	336.0	301.9	226.1	178.8	155.1
50°	10354.8	10021.5	8704.6	3548.7	1276.6	521.1	304.0	345.8	226.1	172.5	147.5
52.5°	10935.0	10605.2	9255.6	3793.6	1219.6	468.2	273.4	346.5	228.2	164.2	137.7
55°	11664.7	11425.4	10042.4	4062.2	1128.4	390.3	236.5	297.8	219.8	148.9	128.7
57.5°	12364.6	12169.1	10759.6	4245.8	1006.7	304.7	205.9	240.0	201.1	130.8	114.8
59°	12555.9	12342.4	11022.6	4254.2	915.5	265.8	190.6	198.3	196.9	122.4	106.4
60°	12555.9	12329.1	11098.5	4209.7	849.4	244.2	180.9	176.7	205.2	116.9	101.6
62.5°	12328.4	12009.8	10852.2	3908.4	692.9	208.0	157.9	146.1	184.4	105.1	89.7
65°	11855.4	11391.3	10013.2	3363.7	617.8	190.6	136.4	119.7	128.0	92.5	78.6
67.5°	11066.4	10437.5	8803.3	2717.4	587.9	185.8	117.6	101.6	96.7	79.3	68.9
70°	9677.1	8979.4	7334.7	2136.5	562.1	183.7	98.8	85.6	77.9	66.8	58.4
72.5°	7043.2	6315.5	5207.3	1670.4	546.8	187.8	79.3	71.7	64.0	52.2	45.2
75°	4028.8	3552.2	2926.8	1103.4	466.1	179.5	61.2	59.8	45.9	37.6	31.3
77.5°	2081.5	2018.2	1753.9	423.7	223.3	78.6	40.4	34.8	27.1	23.0	18.8
80°	898.1	888.4	768.7	122.4	59.1	43.8	23.0	14.6	12.5	9.7	7.7
82.5°	310.3	310.3	273.4	41.0	26.4	21.6	2.8	0.0	0.0	0.0	0.0
85°	62.6	70.3	49.4	0.0	9.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6
2.5°	4172.1	4087.9	4082.3	4029.5	3963.4	3933.5	3916.1	3946.7	3984.3	3988.4	4044.8
5°	3238.5	3150.1	3187.0	3093.1	3111.9	3093.1	3062.5	3068.0	3084.7	3032.5	3097.2
7.5°	2274.2	2207.4	2249.9	2224.8	2258.2	2271.5	2252.7	2224.8	2142.7	2133.0	2189.4
10°	1714.2	1638.4	1593.1	1545.8	1556.3	1577.8	1570.9	1550.7	1498.5	1501.3	1555.6
12.5°	1377.5	1292.6	1202.9	1086.7	1058.2	1074.2	1058.2	1046.3	996.2	1000.4	1048.4
15°	1044.9	975.4	881.4	788.2	737.4	742.3	697.8	666.5	635.2	597.6	626.8
17.5°	705.4	663.0	635.2	607.3	546.8	532.9	476.6	416.0	392.4	375.0	387.5
20°	499.5	476.6	465.4	464.0	429.2	411.9	356.9	319.3	307.5	304.0	311.7
22.5°	417.4	400.7	384.7	375.7	358.3	338.1	296.4	277.6	269.2	265.1	270.6
25°	363.2	350.6	333.9	318.6	311.7	290.1	260.2	246.3	240.7	236.5	239.3
27.5°	322.8	311.7	292.2	282.5	276.9	258.1	232.4	221.2	216.4	215.0	214.3
30°	290.8	280.4	262.3	251.1	241.4	224.7	209.4	198.3	193.4	192.0	190.6
32.5°	258.8	250.5	238.6	227.5	217.1	201.8	188.5	179.5	171.8	170.4	169.8
35°	218.4	210.1	203.8	203.1	193.4	178.8	169.1	157.2	151.0	148.9	149.6
37.5°	194.1	183.0	169.1	173.9	171.1	160.7	147.5	135.7	129.4	128.0	128.0
40°	178.8	167.0	151.0	142.6	151.0	148.9	128.0	116.2	109.9	109.2	107.8
42.5°	164.2	152.4	134.3	120.4	124.5	130.8	110.6	99.5	93.2	91.8	89.7
45°	153.7	141.2	121.1	105.1	96.7	109.9	94.6	80.7	77.2	74.4	73.0
47.5°	144.0	132.2	109.2	91.1	77.2	79.3	75.8	66.1	61.9	59.1	58.4
50°	135.7	123.1	98.8	77.9	64.0	58.4	61.2	52.2	48.7	45.9	44.5
52.5°	125.9	114.1	87.7	67.5	53.6	45.9	46.6	41.0	37.6	35.5	34.8
55°	118.3	106.4	78.6	59.1	47.3	37.6	33.4	32.0	29.9	28.5	27.8
57.5°	107.8	96.7	69.6	50.1	40.4	30.6	25.7	25.7	25.0	23.7	23.0
59°	101.6	91.8	64.0	45.2	36.9	26.4	23.0	23.7	23.0	21.6	20.9
60°	96.7	87.7	59.8	41.7	34.8	24.3	20.9	22.3	21.6	20.2	19.5
62.5°	85.6	79.3	51.5	34.8	30.6	19.5	17.4	18.8	18.8	18.1	17.4
65°	75.1	68.2	43.8	29.2	28.5	16.7	13.9	16.7	17.4	16.0	14.6
67.5°	65.4	58.4	38.3	23.7	26.4	13.2	10.4	13.9	18.8	14.6	13.2
70°	55.7	48.7	29.9	18.8	27.8	9.0	8.3	12.5	22.3	16.0	12.5
72.5°	43.1	37.6	20.9	13.9	29.9	6.3	6.3	10.4	25.0	17.4	11.8
75°	29.9	24.3	12.5	8.3	24.3	4.2	4.2	9.7	23.7	16.0	11.1
77.5°	17.4	13.2	4.2	0.7	12.5	0.0	0.7	7.0	16.7	9.7	4.9
80°	6.3	2.8	0.0	0.0	7.7	0.0	0.0	0.0	1.4	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°	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6
2.5°	4059.4	4153.3	4237.5	4364.8	4515.8	4689.7	4839.3	5000.0	5150.9	5213.6	5256.7
5°	3110.5	3226.6	3362.3	3549.4	3798.5	4105.3	4392.6	4717.5	5066.8	5241.4	5405.6
7.5°	2199.1	2317.4	2485.7	2684.7	2985.9	3351.2	3726.8	4175.6	4648.6	4924.8	5196.9
10°	1581.3	1726.7	1883.9	2156.0	2462.1	2808.5	3195.3	3696.2	4223.6	4529.7	4857.4
12.5°	1076.2	1241.8	1479.7	1784.5	2144.1	2483.6	2819.7	3297.6	3909.8	4213.1	4564.5
15°	645.6	737.4	989.3	1342.0	1783.1	2206.1	2574.1	3053.4	3706.0	4077.5	4442.7
17.5°	397.9	440.4	577.4	866.8	1330.2	1865.2	2369.5	2970.6	3735.2	4187.4	4578.4
20°	317.2	333.9	377.8	512.0	881.4	1489.5	2139.3	2953.9	3973.8	4530.4	4949.9
22.5°	275.5	291.5	320.7	372.2	554.5	1115.2	1920.8	2969.2	4316.1	5044.5	5534.3
25°	242.8	256.7	284.5	327.0	406.3	785.4	1687.1	3037.4	4762.0	5682.5	6202.8
27.5°	217.1	228.9	254.6	293.6	348.5	548.2	1422.0	3120.2	5290.8	6335.0	6848.4
30°	193.4	203.8	226.8	263.0	302.6	421.6	1131.2	3176.6	5820.2	6848.4	7309.7
32.5°	173.2	180.9	201.8	232.4	263.0	336.0	859.9	3167.5	6213.3	7275.6	7641.5
35°	152.4	160.0	178.1	204.5	228.9	277.6	676.2	2998.5	6555.6	7718.8	8021.4
37.5°	129.4	139.1	156.5	180.2	196.9	244.2	546.8	2794.6	6902.7	8225.2	8445.1
40°	109.9	119.7	135.0	160.7	171.1	231.7	420.2	2546.3	7293.0	8791.5	8909.8
42.5°	91.1	100.2	116.2	138.4	161.4	199.7	311.0	2262.4	7668.0	9275.7	9333.5
45°	73.7	82.8	99.5	121.7	172.5	165.6	240.7	1958.4	7970.6	9678.5	9697.3
47.5°	58.4	66.8	84.2	114.8	160.7	132.2	171.8	1719.8	8224.5	9993.0	9943.6
50°	45.2	52.2	70.3	131.5	140.5	109.2	130.1	1640.5	8452.0	10187.8	10059.8
52.5°	35.5	41.7	57.7	123.1	109.2	90.4	109.2	1714.9	8763.7	10349.2	10125.2
55°	28.5	34.8	45.2	70.3	74.4	76.5	93.2	1784.5	9301.5	10727.6	10511.3
57.5°	23.7	29.9	36.9	49.4	56.4	64.7	82.8	1792.1	9935.2	11356.6	11152.0
59°	21.6	27.1	33.4	43.8	49.4	59.1	77.9	1750.4	10158.6	11585.4	11483.2
60°	20.2	25.7	31.3	40.4	45.9	55.7	75.1	1710.7	10168.3	11577.1	11624.4
62.5°	17.4	23.0	27.8	34.1	39.0	47.3	67.5	1563.9	9756.5	11197.9	11539.5
65°	15.3	20.2	25.0	29.2	33.4	42.4	61.2	1296.1	9053.1	10586.4	10958.6
67.5°	13.9	17.4	23.0	25.7	29.9	37.6	54.3	923.9	8174.4	9838.5	10080.0
70°	12.5	16.7	20.9	23.7	27.1	32.7	46.6	530.8	6902.7	8743.5	8915.4
72.5°	11.8	16.0	18.8	22.3	24.3	29.2	42.4	249.8	5054.2	7004.3	7453.0
75°	10.4	14.6	17.4	20.9	23.0	26.4	36.2	119.7	3361.6	5068.8	5578.8
77.5°	6.3	11.8	16.0	18.8	20.2	23.0	29.9	68.9	2145.5	3508.4	4132.4
80°	0.0	4.2	11.8	16.0	17.4	19.5	23.0	54.3	1147.9	2004.3	2405.7
82.5°	0.0	0.0	8.3	12.5	11.8	13.2	17.4	34.1	517.6	1310.0	1476.3
85°	0.0	0.0	2.8	9.7	8.3	6.3	11.8	11.8	113.4	663.0	827.2
87.5°	0.0	0.0	0.0	0.7	4.2	2.8	4.9	1.4	0.7	49.4	200.4
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-SA3D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6
2.5°	5407.7	5459.1	5546.1	5587.1	5567.0	5481.4	5379.1	5274.8	5213.6	5237.9
5°	5740.2	6005.3	6158.3	6209.1	6124.2	5932.2	5681.1	5349.9	5232.3	5200.3
7.5°	5740.2	6239.0	6554.9	6610.5	6421.3	6044.9	5573.9	5057.0	4885.2	4822.6
10°	5538.4	6217.4	6657.8	6746.2	6481.8	5919.0	5288.0	4698.0	4494.2	4429.5
12.5°	5310.9	6042.1	6506.2	6627.9	6410.8	5793.8	5089.7	4455.2	4215.2	4158.9
15°	5171.1	5826.5	6210.5	6298.8	6207.0	5720.7	5042.4	4382.2	4099.7	4045.5
17.5°	5221.2	5659.5	5797.9	5849.4	5911.3	5695.0	5171.1	4542.2	4184.6	4133.1
20°	5409.7	5483.5	5411.8	5476.5	5643.5	5720.0	5477.9	4929.0	4499.8	4430.9
22.5°	5729.8	5392.3	5191.3	5217.0	5420.2	5802.8	5946.8	5481.4	4986.1	4899.8
25°	6102.7	5466.1	5068.8	5045.9	5254.6	5912.0	6375.4	6082.5	5561.4	5466.1
27.5°	6571.6	5631.7	5043.8	5020.8	5196.9	6014.3	6731.6	6676.6	6167.4	6004.6
30°	6933.3	5794.5	5118.2	5065.4	5254.6	6085.3	7017.5	7181.0	6650.2	6542.3
32.5°	7192.8	5986.5	5239.3	5162.8	5417.4	6207.7	7238.0	7642.9	7096.8	6933.3
35°	7390.4	6195.2	5434.8	5308.9	5641.4	6393.5	7444.7	8134.8	7572.0	7393.2
37.5°	7575.4	6488.1	5740.2	5589.9	5992.7	6692.6	7663.1	8692.7	8103.5	7889.9
40°	7833.5	6819.9	6211.2	6077.6	6583.4	7100.3	7935.8	9274.3	8708.0	8439.5
42.5°	8091.7	7176.1	6693.3	6729.5	7320.1	7595.6	8287.8	9889.3	9304.9	9018.3
45°	8327.5	7543.4	7380.0	7546.9	8004.0	8139.0	8637.8	10244.8	9781.5	9504.6
47.5°	8537.6	8002.6	8062.4	8507.0	8781.8	8630.8	8899.4	10551.6	10136.3	9892.1
50°	8781.8	8596.7	8962.0	9590.9	9677.1	9076.1	9137.3	10914.8	10550.9	10354.8
52.5°	9048.9	9222.9	9958.2	10512.7	10484.8	9559.6	9376.6	11321.8	11119.3	10935.0
55°	9352.3	9728.6	10835.5	11375.3	11351.7	10099.4	9773.1	11824.8	11831.7	11664.7
57.5°	9802.4	10164.1	11431.0	12073.1	12112.8	10722.8	10445.2	12388.3	12475.9	12364.6
59°	10125.2	10446.6	11666.8	12364.6	12526.0	11204.9	10936.4	12715.3	12657.5	12555.9
60°	10364.5	10626.1	11783.7	12517.0	12766.0	11531.9	11298.8	12907.3	12679.1	12555.9
62.5°	10956.5	11017.1	11994.5	12689.5	13042.2	12258.2	12318.7	13234.2	12529.5	12328.4
65°	11232.7	11264.0	11991.7	12380.6	12775.1	12823.8	13244.0	13244.0	12164.3	11855.4
67.5°	11117.2	10966.3	11396.9	11356.6	11750.3	12487.8	13591.8	12758.4	11465.8	11066.4
70°	10178.0	9597.1	9405.8	9423.2	9724.5	10861.9	12903.1	11329.4	10144.0	9677.1
72.5°	8468.7	7075.2	6602.9	7142.0	7220.6	8347.7	10996.2	8532.0	7480.8	7043.2
75°	6811.6	4987.5	4219.4	4788.5	4922.1	6108.9	8506.3	5313.7	4369.7	4028.8
77.5°	4893.5	3580.1	3027.7	2988.0	3160.6	3874.3	6035.9	2674.3	2230.4	2081.5
80°	2780.0	2356.3	2537.2	2393.9	2480.9	2422.4	2867.7	1172.9	960.8	898.1
82.5°	1678.0	1392.8	1508.3	1255.7	1589.0	1383.7	1104.8	375.7	326.3	310.3
85°	1091.5	761.1	396.5	265.8	547.5	884.2	247.0	102.3	78.6	62.6
87.5°	376.4	194.1	19.5	8.3	58.4	164.9	9.0	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

(END OF REPORT)