

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: P324403

Luminaire Tested: **GAN-SA9B-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324403
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-SA9B-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 31670 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

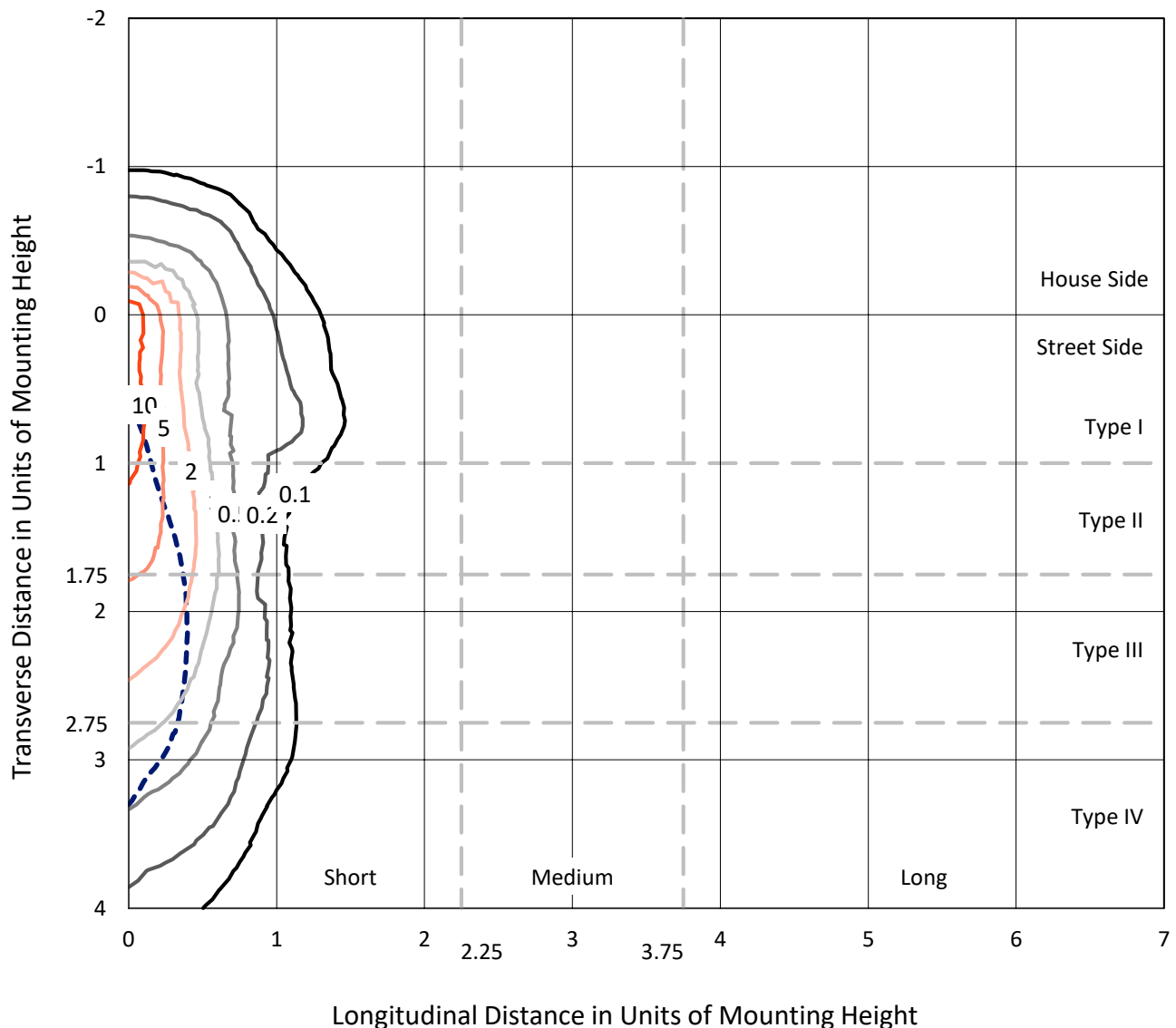
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

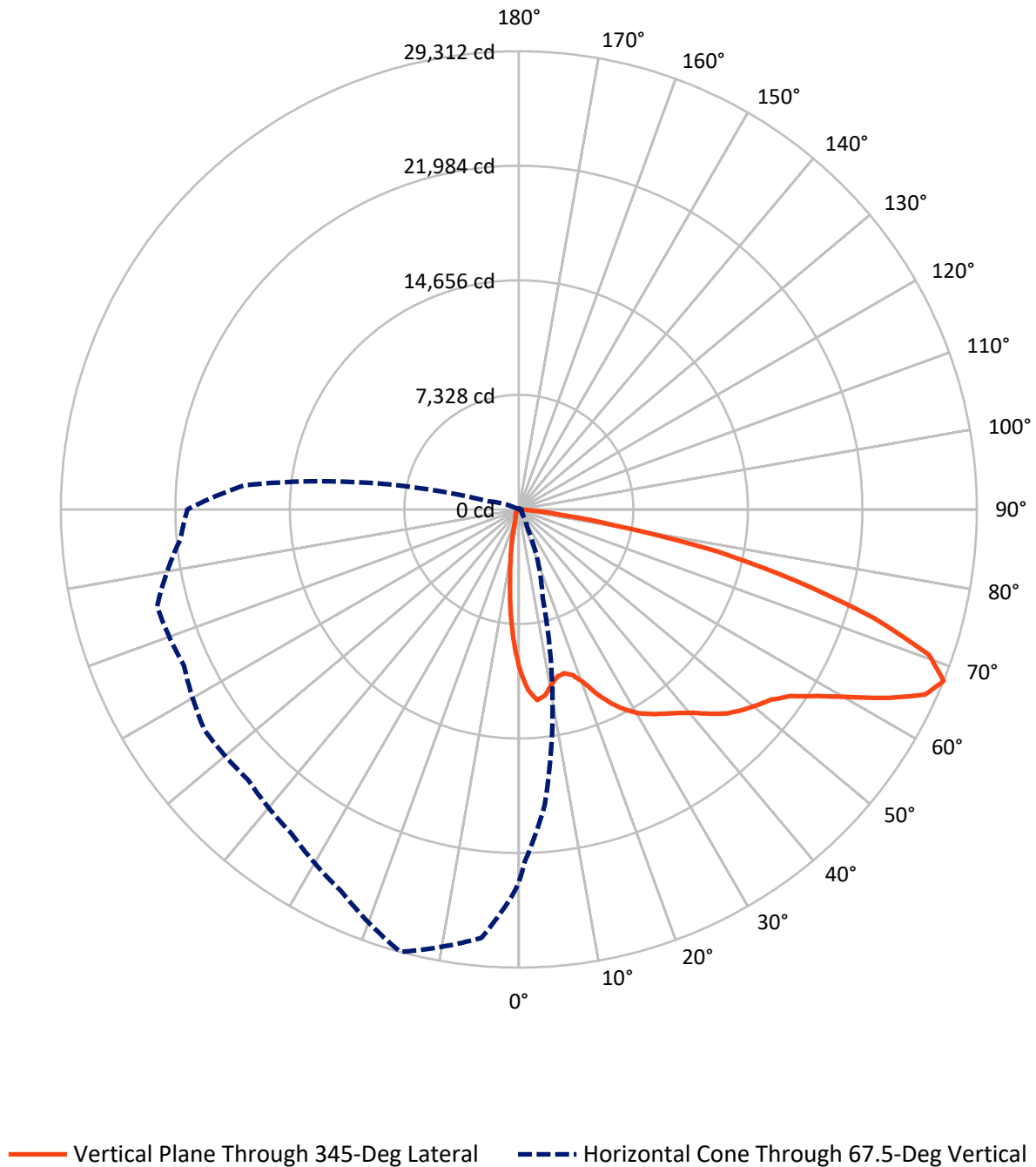
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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	3833.1	0.0	3833.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	27836.9	0.0	27836.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	31670.0	0.0	31670.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.8	2.5
10°-20°	1576.0	5.0
20°-30°	2237.9	7.1
30°-40°	3305.6	10.4
40°-50°	4767.4	15.1
50°-60°	6692.4	21.1
60°-70°	7801.4	24.6
70°-80°	3988.2	12.6
80°-90°	509.3	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°	31670.0	100.0
0°-180°	31670.0	100.0

Coefficient of Utilization



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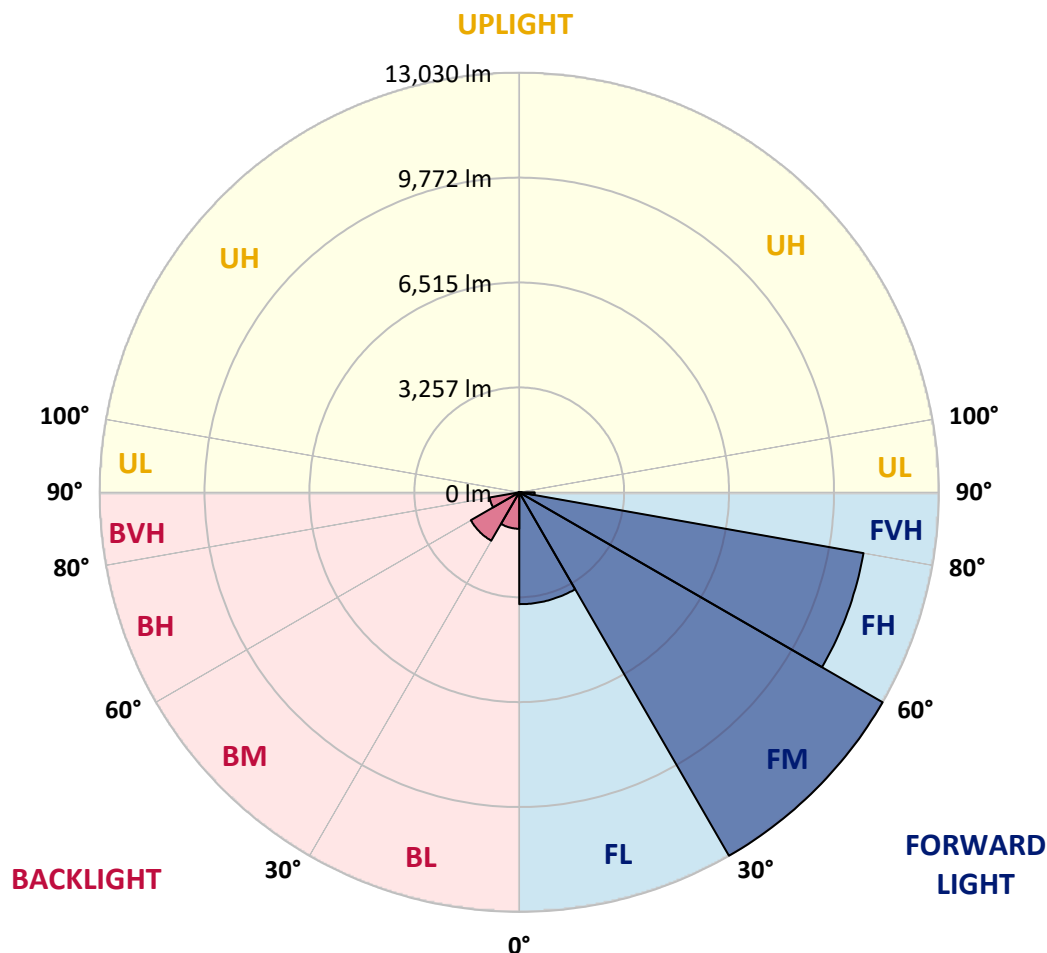
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3473.6	11.0			
FM	(30°-60°)	13029.6	41.1			
FH	(60°-80°)	10855.4	34.3			G4/12000
FVH	(80°-90°)	478.4	1.5			G3/500
BL	(0°-30°)	1132.2	3.6	B3/2500		
BM	(30°-60°)	1735.8	5.5	B2/2500		
BH	(60°-80°)	934.2	2.9	B2/1000		G2/1000
BVH	(80°-90°)	30.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4
2.5°	11296.2	11209.2	11113.1	10799.6	10508.5	10175.4	9903.8	9714.8	9477.7	9170.2	9092.2
5°	11215.2	11122.1	10820.6	10122.9	9512.3	8918.1	8345.0	8008.9	7591.8	7168.7	7063.7
7.5°	10400.5	10302.9	9867.8	8912.1	8089.9	7231.7	6487.5	6026.9	5555.8	5168.7	4963.2
10°	9552.8	9446.2	8957.1	7797.3	6784.6	6008.9	5462.8	5023.2	4577.6	4163.5	3833.4
12.5°	8969.1	8829.6	8298.5	6984.2	6101.9	5575.3	5065.2	4538.6	3935.4	3491.3	3128.2
15°	8724.6	8565.5	8004.4	6670.6	5860.4	5242.2	4577.6	3930.9	3224.3	2715.6	2382.6
17.5°	8913.6	8706.6	8104.9	6649.6	5557.3	4715.6	3875.4	3116.2	2349.6	1834.9	1597.9
20°	9555.8	9284.2	8520.5	6643.6	5189.7	4090.0	3024.7	2166.5	1548.4	1245.3	1120.8
22.5°	10567.0	10208.4	9117.7	6691.6	4810.1	3432.8	2184.5	1471.8	1162.8	1005.2	931.7
25°	11788.3	11372.7	9977.4	6861.1	4477.1	2793.7	1587.4	1162.8	981.2	865.7	804.2
27.5°	12949.6	12612.0	11063.6	7105.7	4219.0	2277.5	1288.8	985.7	838.7	762.2	712.7
30°	14109.3	13684.7	12178.4	7396.8	3908.4	1928.0	1132.8	898.7	751.7	670.7	639.2
32.5°	14952.5	14600.0	13051.6	7606.8	3576.8	1699.9	1012.7	822.2	702.2	619.6	573.1
35°	15944.3	15545.2	13800.3	7653.3	3363.8	1555.9	910.7	739.7	609.1	535.6	486.1
37.5°	17015.5	16518.9	14664.5	7551.3	3197.3	1485.4	834.2	702.2	568.6	493.6	441.1
40°	18200.8	17639.7	15494.2	7404.3	3033.7	1461.3	775.7	673.7	537.1	460.6	406.6
42.5°	19449.1	18787.5	16212.8	7249.7	2930.2	1378.8	769.7	645.2	513.1	430.6	376.6
45°	20497.9	19827.2	16951.0	7198.7	2856.7	1288.8	795.2	625.6	496.6	406.6	354.1
47.5°	21333.6	20698.9	17707.2	7312.7	2814.7	1206.3	724.7	651.2	487.6	385.6	334.6
50°	22331.3	21612.6	18772.4	7653.3	2753.2	1123.8	655.7	745.7	487.6	372.1	318.1
52.5°	23582.6	22871.4	19960.7	8181.4	2630.1	1009.7	589.6	747.2	492.1	354.1	297.1
55°	25156.5	24640.3	21657.6	8760.6	2433.6	841.7	510.1	642.2	474.1	321.1	277.6
57.5°	26665.8	26244.2	23204.5	9156.7	2171.0	657.2	444.1	517.6	433.6	282.1	247.6
59°	27078.4	26617.8	23771.6	9174.7	1974.5	573.1	411.1	427.6	424.6	264.1	229.6
60°	27078.4	26589.3	23935.2	9078.7	1831.9	526.6	390.1	381.1	442.6	252.1	219.1
62.5°	26587.8	25900.6	23404.0	8429.0	1494.4	448.6	340.6	315.1	397.6	226.6	193.5
65°	25567.6	24566.8	21594.6	7254.2	1332.3	411.1	294.1	258.1	276.1	199.5	169.5
67.5°	23866.2	22509.8	18985.5	5860.4	1267.8	400.6	253.6	219.1	208.5	171.0	148.5
70°	20869.9	19365.1	15818.2	4607.6	1212.3	396.1	213.1	184.5	168.0	144.0	126.0
72.5°	15189.6	13620.2	11230.2	3602.4	1179.3	405.1	171.0	154.5	138.0	112.5	97.5
75°	8688.6	7660.8	6312.0	2379.6	1005.2	387.1	132.0	129.0	99.0	81.0	67.5
77.5°	4489.1	4352.5	3782.4	913.7	481.6	169.5	87.0	75.0	58.5	49.5	40.5
80°	1937.0	1916.0	1657.9	264.1	127.5	94.5	49.5	31.5	27.0	21.0	16.5
82.5°	669.2	669.2	589.6	88.5	57.0	46.5	6.0	0.0	0.0	0.0	0.0
85°	135.0	151.5	106.5	0.0	19.5	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°	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4
2.5°	8997.6	8816.1	8804.1	8690.1	8547.5	8483.0	8445.5	8511.5	8592.5	8601.5	8723.1
5°	6984.2	6793.6	6873.1	6670.6	6711.1	6670.6	6604.6	6616.6	6652.6	6540.0	6679.6
7.5°	4904.7	4760.6	4852.1	4798.1	4870.2	4898.7	4858.2	4798.1	4621.1	4600.1	4721.6
10°	3696.9	3533.3	3435.8	3333.8	3356.3	3402.8	3387.8	3344.3	3231.8	3237.8	3354.8
12.5°	2970.7	2787.7	2594.1	2343.6	2282.0	2316.5	2282.0	2256.5	2148.5	2157.5	2261.0
15°	2253.5	2103.5	1901.0	1699.9	1590.4	1600.9	1504.9	1437.3	1369.8	1288.8	1351.8
17.5°	1521.4	1429.8	1369.8	1309.8	1179.3	1149.3	1027.7	897.2	846.2	808.7	835.7
20°	1077.3	1027.7	1003.7	1000.7	925.7	888.2	769.7	688.7	663.2	655.7	672.2
22.5°	900.2	864.2	829.7	810.2	772.7	729.2	639.2	598.6	580.6	571.6	583.6
25°	783.2	756.2	720.2	687.2	672.2	625.6	561.1	531.1	519.1	510.1	516.1
27.5°	696.2	672.2	630.1	609.1	597.1	556.6	501.1	477.1	466.6	463.6	462.1
30°	627.1	604.6	565.6	541.6	520.6	484.6	451.6	427.6	417.1	414.1	411.1
32.5°	558.1	540.1	514.6	490.6	468.1	435.1	406.6	387.1	370.6	367.6	366.1
35°	471.1	453.1	439.6	438.1	417.1	385.6	364.6	339.1	325.6	321.1	322.6
37.5°	418.6	394.6	364.6	375.1	369.1	346.6	318.1	292.6	279.1	276.1	276.1
40°	385.6	360.1	325.6	307.6	325.6	321.1	276.1	250.6	237.1	235.6	232.6
42.5°	354.1	328.6	289.6	259.6	268.6	282.1	238.6	214.6	201.0	198.0	193.5
45°	331.6	304.6	261.1	226.6	208.5	237.1	204.0	174.0	166.5	160.5	157.5
47.5°	310.6	285.1	235.6	196.5	166.5	171.0	163.5	142.5	133.5	127.5	126.0
50°	292.6	265.6	213.1	168.0	138.0	126.0	132.0	112.5	105.0	99.0	96.0
52.5°	271.6	246.1	189.0	145.5	115.5	99.0	100.5	88.5	81.0	76.5	75.0
55°	255.1	229.6	169.5	127.5	102.0	81.0	72.0	69.0	64.5	61.5	60.0
57.5°	232.6	208.5	150.0	108.0	87.0	66.0	55.5	55.5	54.0	51.0	49.5
59°	219.1	198.0	138.0	97.5	79.5	57.0	49.5	51.0	49.5	46.5	45.0
60°	208.5	189.0	129.0	90.0	75.0	52.5	45.0	48.0	46.5	43.5	42.0
62.5°	184.5	171.0	111.0	75.0	66.0	42.0	37.5	40.5	40.5	39.0	37.5
65°	162.0	147.0	94.5	63.0	61.5	36.0	30.0	36.0	37.5	34.5	31.5
67.5°	141.0	126.0	82.5	51.0	57.0	28.5	22.5	30.0	40.5	31.5	28.5
70°	120.0	105.0	64.5	40.5	60.0	19.5	18.0	27.0	48.0	34.5	27.0
72.5°	93.0	81.0	45.0	30.0	64.5	13.5	13.5	22.5	54.0	37.5	25.5
75°	64.5	52.5	27.0	18.0	52.5	9.0	9.0	21.0	51.0	34.5	24.0
77.5°	37.5	28.5	9.0	1.5	27.0	0.0	1.5	15.0	36.0	21.0	10.5
80°	13.5	6.0	0.0	0.0	16.5	0.0	0.0	0.0	3.0	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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4
2.5°	8754.6	8957.1	9138.7	9413.2	9738.8	10113.9	10436.5	10783.1	11108.6	11243.7	11336.7
5°	6708.1	6958.6	7251.2	7654.8	8191.9	8853.6	9473.2	10173.9	10927.1	11303.7	11657.8
7.5°	4742.6	4997.7	5360.8	5789.9	6439.5	7227.2	8037.4	9005.1	10025.4	10621.0	11207.7
10°	3410.3	3723.9	4063.0	4649.6	5309.8	6056.9	6891.1	7971.4	9108.7	9768.8	10475.5
12.5°	2321.0	2678.1	3191.3	3848.4	4624.1	5356.3	6080.9	7111.7	8432.0	9086.2	9843.8
15°	1392.3	1590.4	2133.5	2894.2	3845.4	4757.6	5551.3	6585.1	7992.4	8793.6	9581.3
17.5°	858.2	949.7	1245.3	1869.4	2868.7	4022.5	5110.2	6406.5	8055.4	9030.6	9873.8
20°	684.2	720.2	814.7	1104.3	1901.0	3212.3	4613.6	6370.5	8570.0	9770.3	10675.0
22.5°	594.1	628.6	691.7	802.7	1195.8	2405.1	4142.5	6403.5	9308.2	10879.1	11935.3
25°	523.6	553.6	613.6	705.2	876.2	1693.9	3638.4	6550.6	10269.9	12254.9	13377.2
27.5°	468.1	493.6	549.1	633.1	751.7	1182.3	3066.7	6729.1	11410.2	13662.2	14769.5
30°	417.1	439.6	489.1	567.1	652.7	909.2	2439.6	6850.6	12552.0	14769.5	15764.2
32.5°	373.6	390.1	435.1	501.1	567.1	724.7	1854.4	6831.1	13399.7	15690.7	16479.9
35°	328.6	345.1	384.1	441.1	493.6	598.6	1458.3	6466.5	14137.8	16646.4	17299.1
37.5°	279.1	300.1	337.6	388.6	424.6	526.6	1179.3	6026.9	14886.5	17738.7	18212.8
40°	237.1	258.1	291.1	346.6	369.1	499.6	906.2	5491.3	15728.2	18960.0	19215.1
42.5°	196.5	216.1	250.6	298.6	348.1	430.6	670.7	4879.2	16536.9	20004.2	20128.8
45°	159.0	178.5	214.6	262.6	372.1	357.1	519.1	4223.5	17189.6	20872.9	20913.5
47.5°	126.0	144.0	181.5	247.6	346.6	285.1	370.6	3708.9	17737.2	21551.1	21444.6
50°	97.5	112.5	151.5	283.6	303.1	235.6	280.6	3537.8	18227.8	21971.2	21695.1
52.5°	76.5	90.0	124.5	265.6	235.6	195.0	235.6	3698.4	18900.0	22319.3	21836.2
55°	61.5	75.0	97.5	151.5	160.5	165.0	201.0	3848.4	20059.8	23135.5	22668.9
57.5°	51.0	64.5	79.5	106.5	121.5	139.5	178.5	3864.9	21426.6	24491.8	24050.7
59°	46.5	58.5	72.0	94.5	106.5	127.5	168.0	3774.9	21908.2	24985.4	24764.9
60°	43.5	55.5	67.5	87.0	99.0	120.0	162.0	3689.4	21929.2	24967.4	25069.4
62.5°	37.5	49.5	60.0	73.5	84.0	102.0	145.5	3372.8	21041.0	24149.7	24886.4
65°	33.0	43.5	54.0	63.0	72.0	91.5	132.0	2795.2	19524.1	22830.9	23633.6
67.5°	30.0	37.5	49.5	55.5	64.5	81.0	117.0	1992.5	17629.2	21218.0	21738.6
70°	27.0	36.0	45.0	51.0	58.5	70.5	100.5	1144.8	14886.5	18856.5	19227.1
72.5°	25.5	34.5	40.5	48.0	52.5	63.0	91.5	538.6	10900.1	15105.6	16073.3
75°	22.5	31.5	37.5	45.0	49.5	57.0	78.0	258.1	7249.7	10931.6	12031.4
77.5°	13.5	25.5	34.5	40.5	43.5	49.5	64.5	148.5	4627.1	7566.3	8912.1
80°	0.0	9.0	25.5	34.5	37.5	42.0	49.5	117.0	2475.6	4322.5	5188.2
82.5°	0.0	0.0	18.0	27.0	25.5	28.5	37.5	73.5	1116.3	2825.2	3183.8
85°	0.0	0.0	6.0	21.0	18.0	13.5	25.5	25.5	244.6	1429.8	1783.9
87.5°	0.0	0.0	0.0	1.5	9.0	6.0	10.5	3.0	1.5	106.5	432.1
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-SA9B-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4	10316.4
2.5°	11662.3	11773.3	11960.8	12049.4	12005.8	11821.3	11600.7	11375.7	11243.7	11296.2
5°	12379.4	12951.1	13281.1	13390.7	13207.6	12793.5	12251.9	11537.7	11284.2	11215.2
7.5°	12379.4	13455.2	14136.3	14256.4	13848.3	13036.6	12020.8	10906.1	10535.5	10400.5
10°	11944.3	13408.7	14358.4	14548.9	13978.8	12765.0	11404.2	10131.9	9692.3	9552.8
12.5°	11453.7	13030.6	14031.3	14293.9	13825.8	12495.0	10976.6	9608.3	9090.7	8969.1
15°	11152.1	12565.5	13393.7	13584.2	13386.2	12337.4	10874.6	9450.7	8841.6	8724.6
17.5°	11260.2	12205.4	12504.0	12615.0	12748.5	12281.9	11152.1	9795.8	9024.6	8913.6
20°	11666.8	11825.8	11671.3	11810.8	12170.9	12335.9	11813.8	10630.0	9704.3	9555.8
22.5°	12356.9	11629.3	11195.7	11251.2	11689.3	12514.5	12825.0	11821.3	10753.0	10567.0
25°	13161.1	11788.3	10931.6	10882.1	11332.2	12750.0	13749.3	13117.6	11993.8	11788.3
27.5°	14172.4	12145.4	10877.6	10828.1	11207.7	12970.6	14517.4	14398.9	13300.7	12949.6
30°	14952.5	12496.5	11038.1	10924.1	11332.2	13123.6	15134.1	15486.7	14341.9	14109.3
32.5°	15512.2	12910.6	11299.2	11134.1	11683.3	13387.7	15609.7	16482.9	15305.1	14952.5
35°	15938.3	13360.7	11720.8	11449.2	12166.4	13788.3	16055.3	17543.7	16329.9	15944.3
37.5°	16337.4	13992.3	12379.4	12055.4	12924.1	14433.4	16526.4	18746.9	17476.1	17015.5
40°	16894.0	14708.0	13395.2	13107.1	14197.9	15312.6	17114.6	20001.2	18779.9	18200.8
42.5°	17450.6	15476.2	14434.9	14512.9	15786.7	16380.9	17873.7	21327.6	20067.3	19449.1
45°	17959.3	16268.4	15915.8	16275.9	17261.6	17552.7	18628.4	22094.2	21095.0	20497.9
47.5°	18412.4	17258.6	17387.6	18346.3	18939.0	18613.4	19192.5	22755.9	21860.2	21333.6
50°	18939.0	18539.9	19327.6	20683.9	20869.9	19573.6	19705.7	23539.1	22754.4	22331.3
52.5°	19515.1	19890.2	21476.1	22671.9	22611.9	20616.4	20221.8	24416.8	23980.2	23582.6
55°	20169.3	20981.0	23368.0	24532.3	24481.3	21780.7	21077.0	25501.5	25516.5	25156.5
57.5°	21140.0	21920.2	24652.3	26037.2	26122.7	23125.0	22526.3	26716.8	26905.9	26665.8
59°	21836.2	22529.3	25161.0	26665.8	27013.9	24164.7	23585.6	27422.0	27297.5	27078.4
60°	22352.3	22916.4	25413.0	26994.4	27531.5	24869.9	24367.3	27836.1	27344.0	27078.4
62.5°	23629.1	23759.6	25867.6	27366.5	28127.2	26436.3	26566.8	28541.3	27021.4	26587.8
65°	24224.7	24292.3	25861.6	26700.3	27551.0	27656.1	28562.3	28562.3	26233.7	25567.6
67.5°	23975.7	23650.1	24578.8	24491.8	25341.0	26931.4	29312.4	27515.0	24727.4	23866.2
70°	21950.2	20697.4	20284.8	20322.3	20972.0	23425.0	27827.1	24433.3	21876.7	20869.9
72.5°	18263.8	15258.6	14239.9	15402.6	15572.2	18002.8	23714.6	18400.4	16133.3	15189.6
75°	14690.0	10756.0	9099.7	10326.9	10615.0	13174.6	18344.8	11459.7	9423.7	8688.6
77.5°	10553.5	7720.8	6529.5	6444.0	6816.1	8355.5	13017.1	5767.4	4810.1	4489.1
80°	5995.4	5081.7	5471.8	5162.7	5350.3	5224.2	6184.5	2529.6	2072.0	1937.0
82.5°	3618.9	3003.7	3252.8	2708.1	3426.8	2984.2	2382.6	810.2	703.7	669.2
85°	2354.1	1641.4	855.2	573.1	1180.8	1907.0	532.6	220.6	169.5	135.0
87.5°	811.7	418.6	42.0	18.0	126.0	355.6	19.5	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)