

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: P324393

Luminaire Tested: **GAN-SA9A-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324393
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-SA9A-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 25828 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

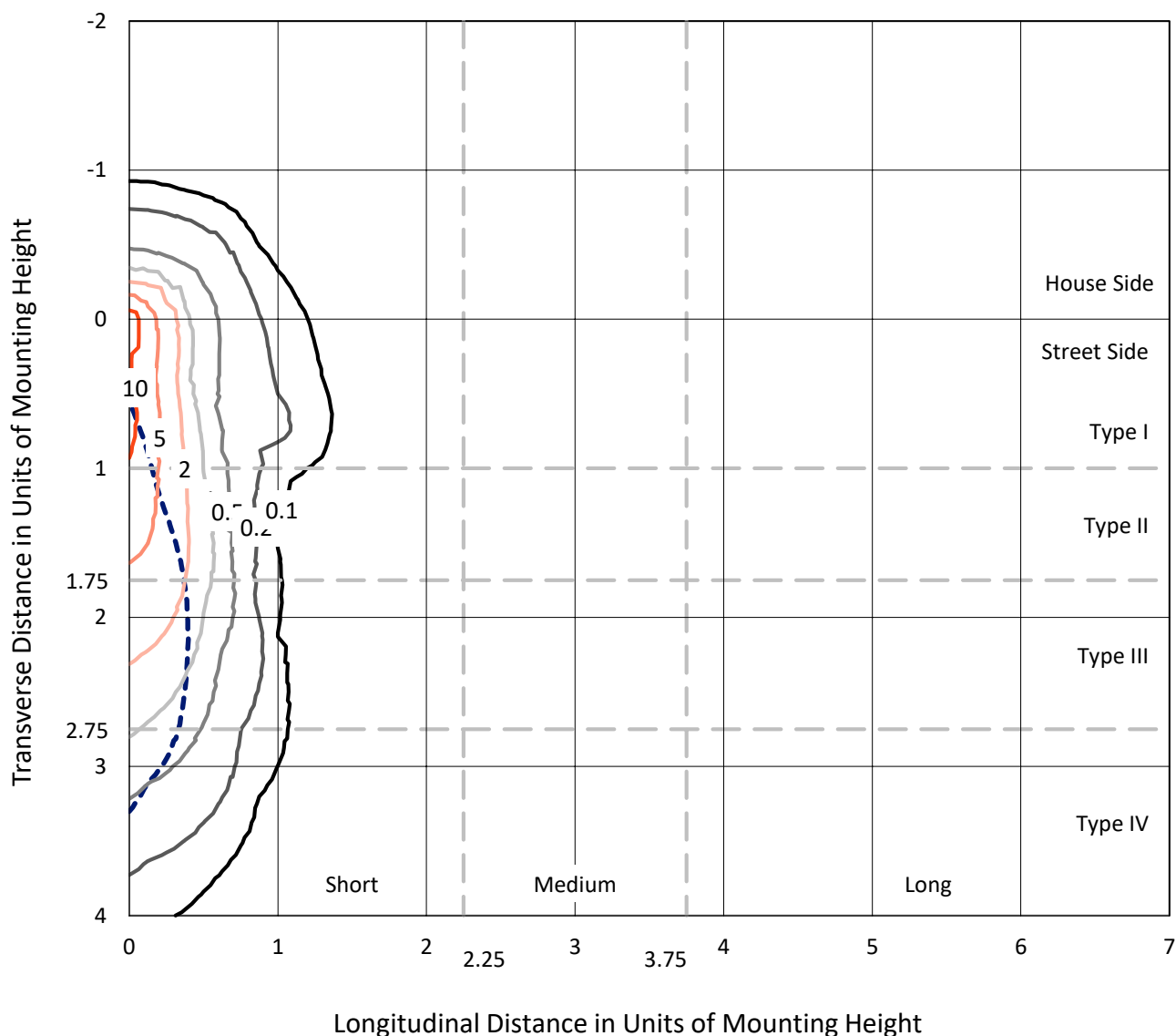
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

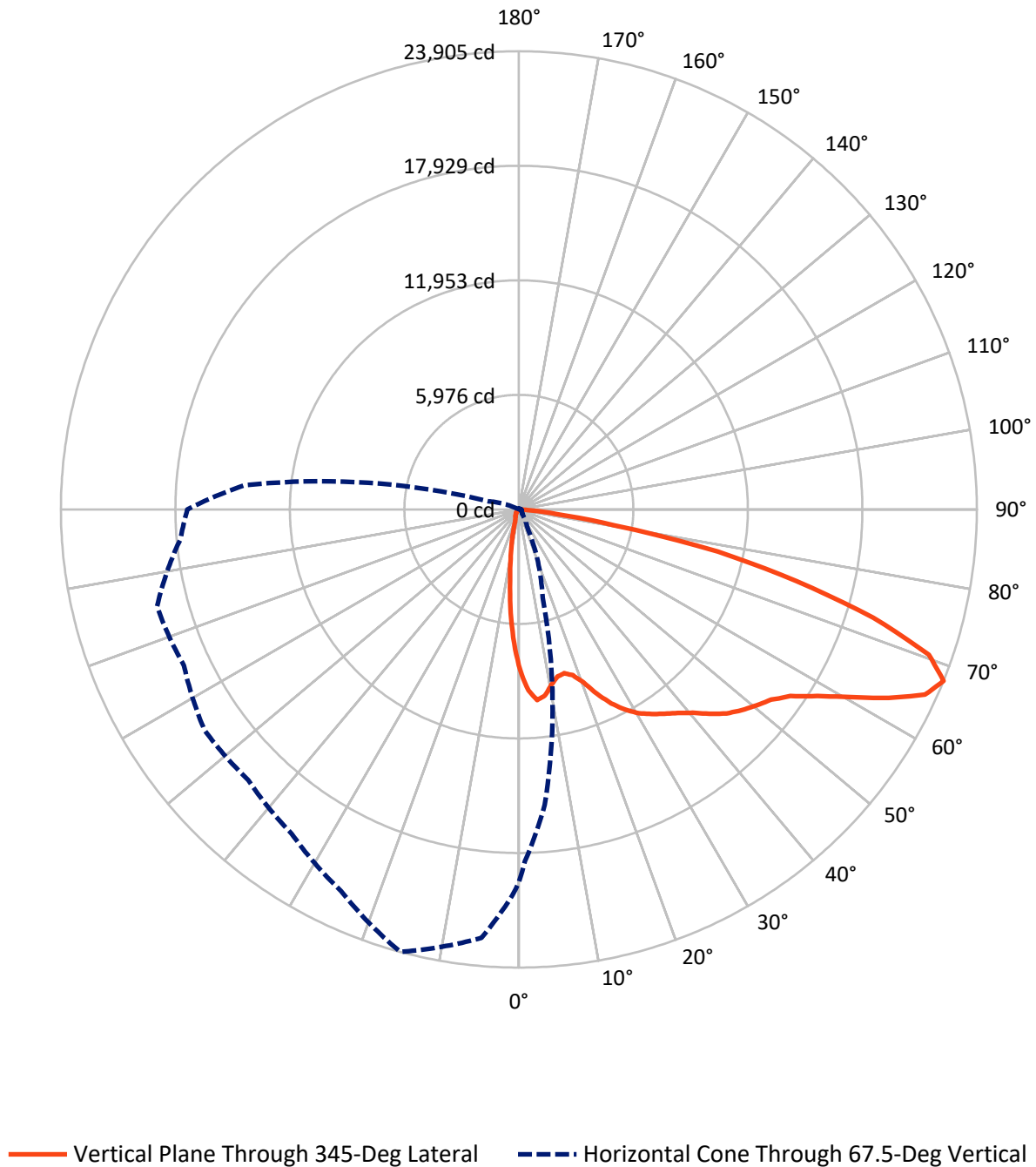
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	3126.0	0.0	3126.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	22702.0	0.0	22702.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	25828.0	0.0	25828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.7	2.5
10°-20°	1285.3	5.0
20°-30°	1825.1	7.1
30°-40°	2695.8	10.4
40°-50°	3887.9	15.1
50°-60°	5457.9	21.1
60°-70°	6362.3	24.6
70°-80°	3252.5	12.6
80°-90°	415.4	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°	25828.0	100.0
0°-180°	25828.0	100.0

Coefficient of Utilization



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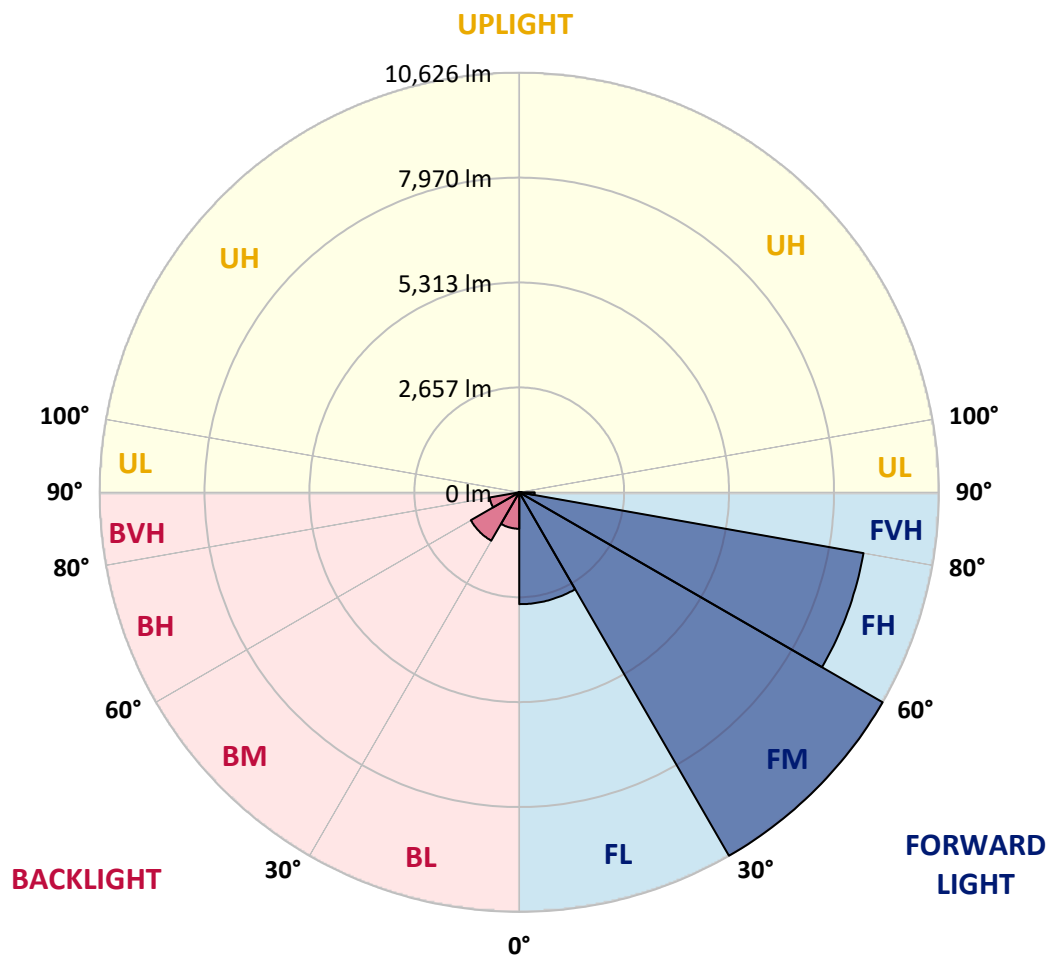
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2832.8	11.0			
FM	(30°-60°)	10626.1	41.1			
FH	(60°-80°)	8852.9	34.3			G4/12000
FVH	(80°-90°)	390.1	1.5			G3/500
BL	(0°-30°)	923.3	3.6	B2/1000		
BM	(30°-60°)	1415.6	5.5	B2/2500		
BH	(60°-80°)	761.9	2.9	B2/1000		G2/1000
BVH	(80°-90°)	25.2	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4
2.5°	9212.4	9141.5	9063.2	8807.4	8570.0	8298.4	8076.9	7922.8	7729.4	7478.6	7415.0
5°	9146.4	9070.5	8824.6	8255.6	7757.6	7273.0	6805.6	6531.5	6191.4	5846.3	5760.7
7.5°	8481.9	8402.4	8047.6	7268.1	6597.6	5897.7	5290.8	4915.2	4531.0	4215.3	4047.6
10°	7790.6	7703.7	7304.8	6359.0	5533.1	4900.5	4455.1	4096.6	3733.2	3395.5	3126.3
12.5°	7314.6	7200.8	6767.7	5695.8	4976.4	4546.9	4130.8	3701.4	3209.5	2847.3	2551.2
15°	7115.2	6985.5	6527.9	5440.1	4779.4	4275.2	3733.2	3205.8	2629.5	2214.7	1943.1
17.5°	7269.4	7100.5	6609.8	5423.0	4532.2	3845.8	3160.5	2541.4	1916.1	1496.5	1303.1
20°	7793.1	7571.6	6948.8	5418.1	4232.4	3335.5	2466.8	1766.9	1262.7	1015.6	914.0
22.5°	8617.8	8325.3	7435.8	5457.2	3922.8	2799.6	1781.6	1200.3	948.3	819.8	759.9
25°	9613.8	9274.8	8136.9	5595.5	3651.2	2278.3	1294.6	948.3	800.2	706.0	655.8
27.5°	10560.8	10285.5	9022.8	5794.9	3440.7	1857.4	1051.1	803.9	684.0	621.6	581.2
30°	11506.7	11160.4	9931.9	6032.3	3187.5	1572.3	923.8	732.9	613.0	546.9	521.3
32.5°	12194.3	11906.8	10644.0	6203.6	2917.0	1386.3	825.9	670.5	572.6	505.3	467.4
35°	13003.1	12677.6	11254.6	6241.5	2743.3	1268.9	742.7	603.2	496.8	436.8	396.4
37.5°	13876.8	13471.8	11959.4	6158.3	2607.5	1211.4	680.3	572.6	463.7	402.6	359.7
40°	14843.4	14385.8	12636.0	6038.4	2474.1	1191.8	632.6	549.4	438.0	375.6	331.6
42.5°	15861.4	15321.8	13222.1	5912.4	2389.7	1124.5	627.7	526.1	418.5	351.2	307.1
45°	16716.7	16169.8	13824.1	5870.8	2329.7	1051.1	648.5	510.2	405.0	331.6	288.8
47.5°	17398.3	16880.7	14440.8	5963.8	2295.5	983.8	591.0	531.0	397.7	314.5	272.9
50°	18212.0	17625.9	15309.6	6241.5	2245.3	916.5	534.7	608.1	397.7	303.5	259.4
52.5°	19232.4	18652.4	16278.7	6672.3	2145.0	823.5	480.9	609.3	401.3	288.8	242.3
55°	20516.0	20095.1	17662.6	7144.6	1984.7	686.4	416.0	523.7	386.7	261.8	226.4
57.5°	21746.9	21403.1	18924.1	7467.6	1770.5	535.9	362.2	422.1	353.6	230.0	201.9
59°	22083.4	21707.8	19386.6	7482.3	1610.2	467.4	335.3	348.7	346.3	215.4	187.2
60°	22083.4	21684.5	19520.0	7404.0	1494.0	429.5	318.1	310.8	361.0	205.6	178.6
62.5°	21683.3	21122.9	19086.8	6874.1	1218.7	365.9	277.8	257.0	324.3	184.8	157.8
65°	20851.2	20035.1	17611.2	5916.1	1086.6	335.3	239.8	210.5	225.1	162.7	138.3
67.5°	19463.7	18357.6	15483.3	4779.4	1033.9	326.7	206.8	178.6	170.1	139.5	121.1
70°	17020.2	15792.9	12900.3	3757.7	988.7	323.0	173.8	150.5	137.0	117.5	102.8
72.5°	12387.7	11107.8	9158.6	2937.8	961.7	330.4	139.5	126.0	112.6	91.8	79.5
75°	7085.8	6247.7	5147.7	1940.6	819.8	315.7	107.7	105.2	80.8	66.1	55.1
77.5°	3661.0	3549.6	3084.7	745.2	392.8	138.3	71.0	61.2	47.7	40.4	33.0
80°	1579.7	1562.5	1352.1	215.4	104.0	77.1	40.4	25.7	22.0	17.1	13.5
82.5°	545.7	545.7	480.9	72.2	46.5	37.9	4.9	0.0	0.0	0.0	0.0
85°	110.1	123.6	86.9	0.0	15.9	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°	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4
2.5°	7337.9	7189.8	7180.0	7087.0	6970.8	6918.2	6887.6	6941.4	7007.5	7014.9	7114.0
5°	5695.8	5540.4	5605.3	5440.1	5473.1	5440.1	5386.3	5396.0	5425.4	5333.6	5447.4
7.5°	3999.9	3882.5	3957.1	3913.0	3971.8	3995.0	3962.0	3913.0	3768.7	3751.5	3850.6
10°	3014.9	2881.6	2802.0	2718.8	2737.2	2775.1	2762.9	2727.4	2635.6	2640.5	2736.0
12.5°	2422.7	2273.4	2115.6	1911.3	1861.1	1889.2	1861.1	1840.3	1752.2	1759.5	1844.0
15°	1837.8	1715.5	1550.3	1386.3	1297.0	1305.6	1227.3	1172.2	1117.1	1051.1	1102.5
17.5°	1240.7	1166.1	1117.1	1068.2	961.7	937.3	838.2	731.7	690.1	659.5	681.5
20°	878.5	838.2	818.6	816.1	755.0	724.4	627.7	561.6	540.8	534.7	548.2
22.5°	734.2	704.8	676.6	660.7	630.2	594.7	521.3	488.2	473.5	466.2	476.0
25°	638.7	616.7	587.3	560.4	548.2	510.2	457.6	433.2	423.4	416.0	420.9
27.5°	567.7	548.2	513.9	496.8	487.0	454.0	408.7	389.1	380.5	378.1	376.9
30°	511.5	493.1	461.3	441.7	424.6	395.2	368.3	348.7	340.2	337.7	335.3
32.5°	455.2	440.5	419.7	400.1	381.8	354.8	331.6	315.7	302.2	299.8	298.6
35°	384.2	369.5	358.5	357.3	340.2	314.5	297.3	276.5	265.5	261.8	263.1
37.5°	341.4	321.8	297.3	305.9	301.0	282.6	259.4	238.6	227.6	225.1	225.1
40°	314.5	293.7	265.5	250.8	265.5	261.8	225.1	204.3	193.3	192.1	189.7
42.5°	288.8	268.0	236.2	211.7	219.0	230.0	194.6	175.0	164.0	161.5	157.8
45°	270.4	248.4	212.9	184.8	170.1	193.3	166.4	141.9	135.8	130.9	128.5
47.5°	253.3	232.5	192.1	160.3	135.8	139.5	133.4	116.2	108.9	104.0	102.8
50°	238.6	216.6	173.8	137.0	112.6	102.8	107.7	91.8	85.7	80.8	78.3
52.5°	221.5	200.7	154.2	118.7	94.2	80.8	82.0	72.2	66.1	62.4	61.2
55°	208.0	187.2	138.3	104.0	83.2	66.1	58.7	56.3	52.6	50.2	48.9
57.5°	189.7	170.1	122.4	88.1	71.0	53.8	45.3	45.3	44.0	41.6	40.4
59°	178.6	161.5	112.6	79.5	64.9	46.5	40.4	41.6	40.4	37.9	36.7
60°	170.1	154.2	105.2	73.4	61.2	42.8	36.7	39.2	37.9	35.5	34.3
62.5°	150.5	139.5	90.5	61.2	53.8	34.3	30.6	33.0	33.0	31.8	30.6
65°	132.1	119.9	77.1	51.4	50.2	29.4	24.5	29.4	30.6	28.1	25.7
67.5°	115.0	102.8	67.3	41.6	46.5	23.2	18.4	24.5	33.0	25.7	23.2
70°	97.9	85.7	52.6	33.0	48.9	15.9	14.7	22.0	39.2	28.1	22.0
72.5°	75.9	66.1	36.7	24.5	52.6	11.0	11.0	18.4	44.0	30.6	20.8
75°	52.6	42.8	22.0	14.7	42.8	7.3	7.3	17.1	41.6	28.1	19.6
77.5°	30.6	23.2	7.3	1.2	22.0	0.0	1.2	12.2	29.4	17.1	8.6
80°	11.0	4.9	0.0	0.0	13.5	0.0	0.0	0.0	2.4	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°	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4
2.5°	7139.7	7304.8	7452.9	7676.8	7942.3	8248.2	8511.3	8794.0	9059.5	9169.6	9245.5
5°	5470.7	5675.0	5913.6	6242.8	6680.8	7220.4	7725.8	8297.2	8911.4	9218.5	9507.3
7.5°	3867.8	4075.8	4371.9	4721.8	5251.7	5894.0	6554.8	7344.0	8176.0	8661.8	9140.2
10°	2781.2	3037.0	3313.5	3791.9	4330.3	4939.6	5620.0	6500.9	7428.4	7966.8	8543.1
12.5°	1892.9	2184.1	2602.6	3138.5	3771.1	4368.2	4959.2	5799.8	6876.6	7410.1	8028.0
15°	1135.5	1297.0	1739.9	2360.3	3136.1	3880.0	4527.3	5370.3	6518.1	7171.5	7813.9
17.5°	699.9	774.5	1015.6	1524.6	2339.5	3280.5	4167.6	5224.7	6569.5	7364.8	8052.5
20°	558.0	587.3	664.4	900.6	1550.3	2619.7	3762.5	5195.4	6989.2	7968.0	8705.9
22.5°	484.5	512.7	564.1	654.6	975.2	1961.4	3378.3	5222.3	7591.2	8872.3	9733.7
25°	427.0	451.5	500.4	575.1	714.6	1381.4	2967.2	5342.2	8375.5	9994.3	10909.6
27.5°	381.8	402.6	447.8	516.4	613.0	964.2	2501.0	5487.8	9305.4	11142.0	12045.0
30°	340.2	358.5	398.9	462.5	532.3	741.5	1989.6	5586.9	10236.6	12045.0	12856.3
32.5°	304.7	318.1	354.8	408.7	462.5	591.0	1512.4	5571.0	10927.9	12796.3	13439.9
35°	268.0	281.4	313.2	359.7	402.6	488.2	1189.3	5273.7	11529.9	13575.8	14108.0
37.5°	227.6	244.7	275.3	316.9	346.3	429.5	961.7	4915.2	12140.5	14466.5	14853.2
40°	193.3	210.5	237.4	282.6	301.0	407.5	739.0	4478.3	12826.9	15462.5	15670.6
42.5°	160.3	176.2	204.3	243.5	283.9	351.2	546.9	3979.1	13486.4	16314.2	16415.7
45°	129.7	145.6	175.0	214.1	303.5	291.2	423.4	3444.4	14018.7	17022.6	17055.7
47.5°	102.8	117.5	148.1	201.9	282.6	232.5	302.2	3024.7	14465.3	17575.7	17488.8
50°	79.5	91.8	123.6	231.3	247.2	192.1	228.8	2885.2	14865.4	17918.3	17693.1
52.5°	62.4	73.4	101.6	216.6	192.1	159.1	192.1	3016.2	15413.6	18202.2	17808.2
55°	50.2	61.2	79.5	123.6	130.9	134.6	164.0	3138.5	16359.4	18867.8	18487.3
57.5°	41.6	52.6	64.9	86.9	99.1	113.8	145.6	3152.0	17474.1	19973.9	19614.2
59°	37.9	47.7	58.7	77.1	86.9	104.0	137.0	3078.6	17866.9	20376.5	20196.6
60°	35.5	45.3	55.1	71.0	80.8	97.9	132.1	3008.8	17884.0	20361.8	20445.0
62.5°	30.6	40.4	48.9	60.0	68.5	83.2	118.7	2750.6	17159.7	19694.9	20295.7
65°	26.9	35.5	44.0	51.4	58.7	74.6	107.7	2279.6	15922.6	18619.4	19274.0
67.5°	24.5	30.6	40.4	45.3	52.6	66.1	95.4	1624.9	14377.2	17304.0	17728.6
70°	22.0	29.4	36.7	41.6	47.7	57.5	82.0	933.6	12140.5	15378.1	15680.3
72.5°	20.8	28.1	33.0	39.2	42.8	51.4	74.6	439.3	8889.4	12319.1	13108.3
75°	18.4	25.7	30.6	36.7	40.4	46.5	63.6	210.5	5912.4	8915.1	9812.0
77.5°	11.0	20.8	28.1	33.0	35.5	40.4	52.6	121.1	3773.6	6170.6	7268.1
80°	0.0	7.3	20.8	28.1	30.6	34.3	40.4	95.4	2018.9	3525.2	4231.2
82.5°	0.0	0.0	14.7	22.0	20.8	23.2	30.6	60.0	910.4	2304.0	2596.5
85°	0.0	0.0	4.9	17.1	14.7	11.0	20.8	20.8	199.4	1166.1	1454.9
87.5°	0.0	0.0	0.0	1.2	7.3	4.9	8.6	2.4	1.2	86.9	352.4
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-SA9A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4	8413.4
2.5°	9511.0	9601.5	9754.5	9826.7	9791.2	9640.7	9460.8	9277.3	9169.6	9212.4
5°	10095.9	10562.1	10831.2	10920.6	10771.3	10433.6	9991.9	9409.4	9202.6	9146.4
7.5°	10095.9	10973.2	11528.7	11626.6	11293.8	10631.8	9803.4	8894.3	8592.1	8481.9
10°	9741.0	10935.2	11709.8	11865.2	11400.2	10410.3	9300.5	8262.9	7904.4	7790.6
12.5°	9340.9	10626.9	11443.0	11657.2	11275.4	10190.1	8951.8	7835.9	7413.7	7314.6
15°	9095.0	10247.6	10923.0	11078.4	10916.9	10061.6	8868.6	7707.4	7210.6	7115.2
17.5°	9183.1	9953.9	10197.4	10288.0	10396.9	10016.3	9095.0	7988.8	7359.9	7269.4
20°	9514.7	9644.4	9518.3	9632.1	9925.8	10060.4	9634.6	8669.2	7914.2	7793.1
22.5°	10077.5	9484.1	9130.4	9175.7	9533.0	10206.0	10459.3	9640.7	8769.5	8617.8
25°	10733.4	9613.8	8915.1	8874.7	9241.8	10398.1	11213.0	10697.9	9781.4	9613.8
27.5°	11558.1	9905.0	8871.0	8830.7	9140.2	10578.0	11839.5	11742.8	10847.1	10560.8
30°	12194.3	10191.3	9002.0	8909.0	9241.8	10702.8	12342.4	12629.9	11696.3	11506.7
32.5°	12650.7	10529.0	9214.9	9080.3	9528.1	10918.1	12730.3	13442.4	12481.9	12194.3
35°	12998.2	10896.1	9558.7	9337.2	9922.1	11244.8	13093.7	14307.5	13317.6	13003.1
37.5°	13323.7	11411.2	10095.9	9831.6	10540.0	11771.0	13477.9	15288.8	14252.4	13876.8
40°	13777.7	11994.9	10924.2	10689.3	11578.9	12488.0	13957.5	16311.7	15315.7	14843.4
42.5°	14231.6	12621.4	11772.2	11835.8	12874.6	13359.2	14576.7	17393.4	16365.6	15861.4
45°	14646.4	13267.4	12979.9	13273.5	14077.4	14314.8	15192.1	18018.6	17203.7	16716.7
47.5°	15015.9	14075.0	14180.2	14962.1	15445.4	15179.9	15652.2	18558.2	17827.7	17398.3
50°	15445.4	15119.9	15762.3	16868.4	17020.2	15963.0	16070.7	19196.9	18557.0	18212.0
52.5°	15915.3	16221.2	17514.5	18489.7	18440.8	16813.4	16491.6	19912.7	19556.7	19232.4
55°	16448.8	17110.7	19057.5	20007.0	19965.4	17762.9	17189.0	20797.4	20809.6	20516.0
57.5°	17240.4	17876.7	20104.9	21234.2	21304.0	18859.2	18371.0	21788.5	21942.7	21746.9
59°	17808.2	18373.5	20519.6	21746.9	22030.8	19707.2	19234.9	22363.6	22262.0	22083.4
60°	18229.1	18689.2	20725.2	22014.9	22452.9	20282.3	19872.4	22701.3	22300.0	22083.4
62.5°	19270.4	19376.8	21096.0	22318.3	22938.7	21559.7	21666.2	23276.4	22036.9	21683.3
65°	19756.1	19811.2	21091.1	21775.1	22468.8	22554.5	23293.5	23293.5	21394.5	20851.2
67.5°	19553.0	19287.5	20044.9	19973.9	20666.5	21963.5	23905.3	22439.5	20166.0	19463.7
70°	17901.2	16879.5	16543.0	16573.6	17103.4	19104.0	22694.0	19926.2	17841.2	17020.2
72.5°	14894.8	12443.9	11613.1	12561.4	12699.7	14681.9	19340.1	15006.1	13157.3	12387.7
75°	11980.2	8771.9	7421.1	8422.0	8656.9	10744.4	14960.9	9345.8	7685.4	7085.8
77.5°	8606.8	6296.6	5325.1	5255.3	5558.8	6814.2	10615.9	4703.5	3922.8	3661.0
80°	4889.5	4144.3	4462.4	4210.4	4363.3	4260.5	5043.6	2063.0	1689.8	1579.7
82.5°	2951.3	2449.6	2652.7	2208.6	2794.7	2433.7	1943.1	660.7	573.9	545.7
85°	1919.8	1338.6	697.4	467.4	963.0	1555.2	434.4	179.9	138.3	110.1
87.5°	662.0	341.4	34.3	14.7	102.8	290.0	15.9	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)