

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: P324402

Luminaire Tested: **GAN-SA8B-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324402
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-SA8B-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 28392 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

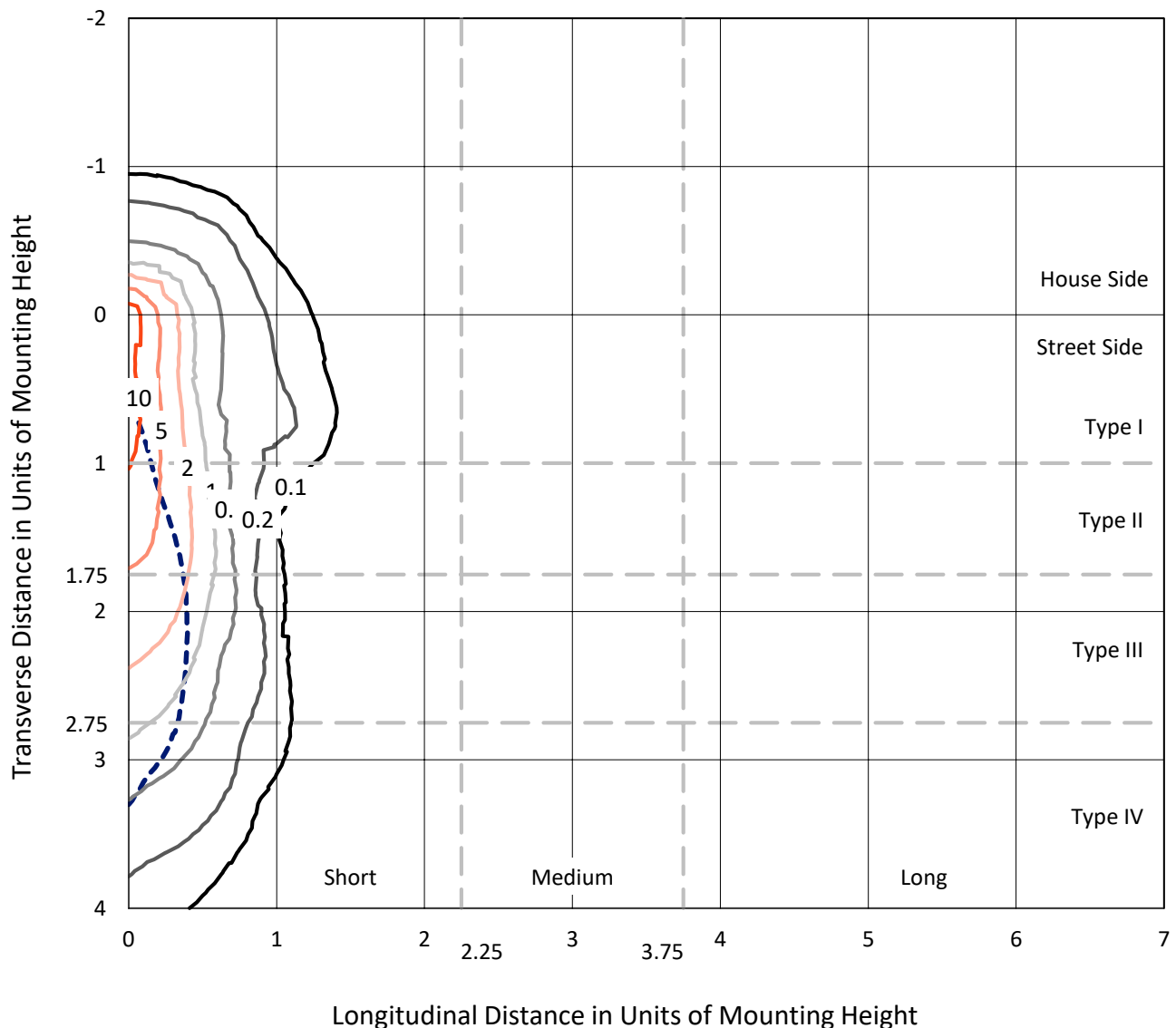
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

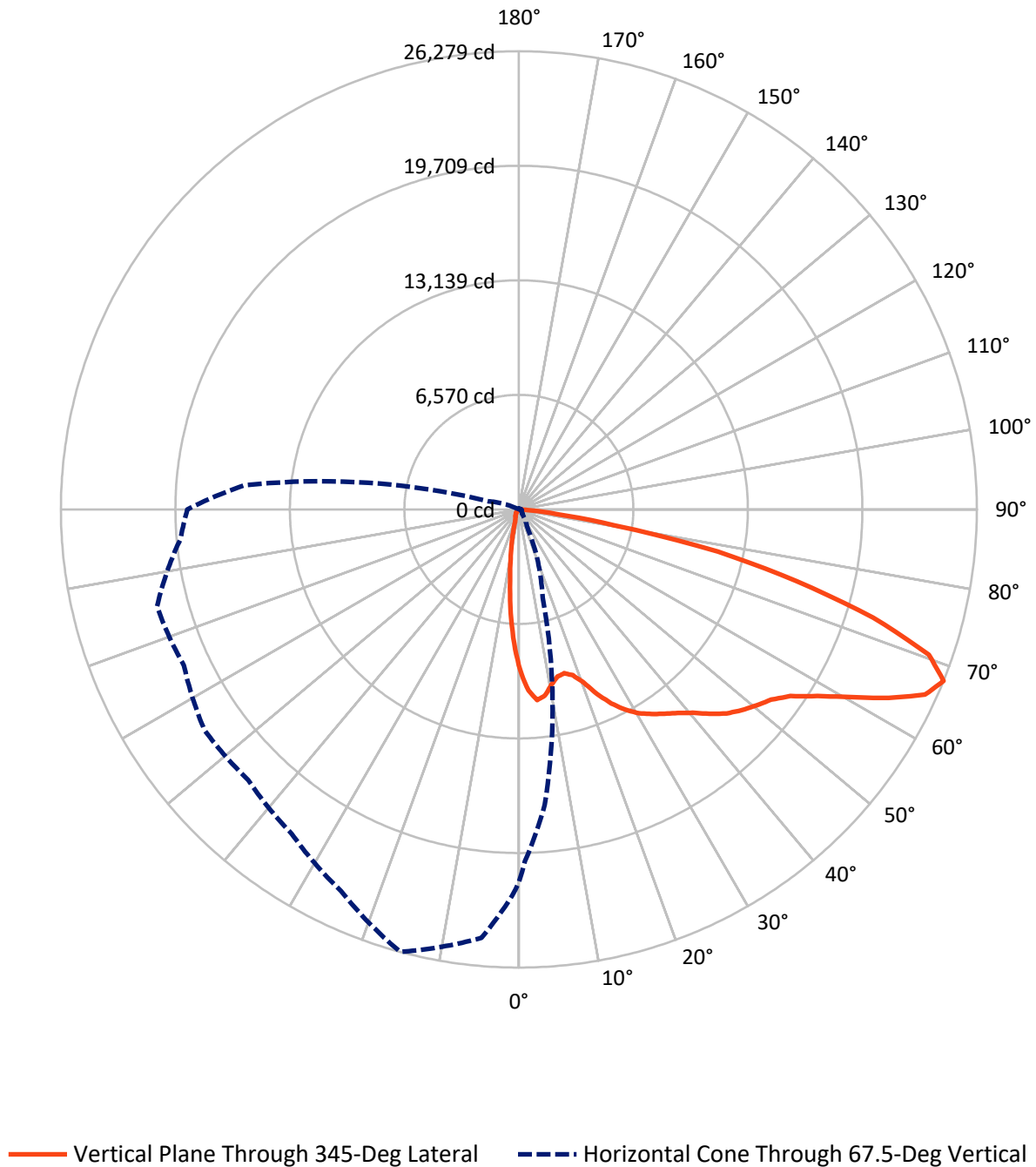
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	3436.4	0.0	3436.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	24955.6	0.0	24955.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	28392.0	0.0	28392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.8	2.5
10°-20°	1412.9	5.0
20°-30°	2006.3	7.1
30°-40°	2963.4	10.4
40°-50°	4273.9	15.1
50°-60°	5999.7	21.1
60°-70°	6993.9	24.6
70°-80°	3575.4	12.6
80°-90°	456.6	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°	28392.0	100.0
0°-180°	28392.0	100.0

Coefficient of Utilization



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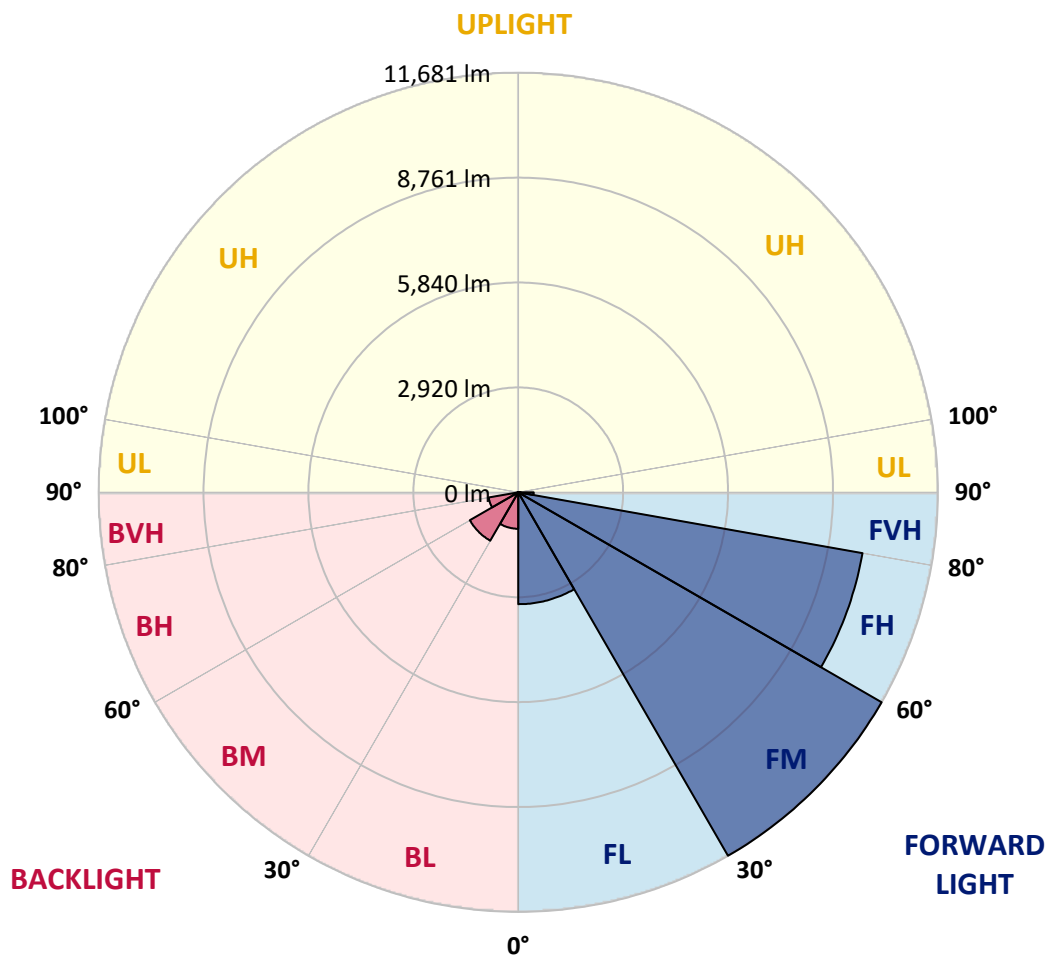
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3114.0	11.0			
FM	(30°-60°)	11680.9	41.1			
FH	(60°-80°)	9731.8	34.3			G4/12000
FVH	(80°-90°)	428.9	1.5			G3/500
BL	(0°-30°)	1015.0	3.6	B3/2500		
BM	(30°-60°)	1556.1	5.5	B2/2500		
BH	(60°-80°)	837.5	2.9	B2/1000		G2/1000
BVH	(80°-90°)	27.7	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°	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6
2.5°	10127.0	10049.0	9962.9	9681.8	9420.8	9122.2	8878.7	8709.3	8496.8	8221.0	8151.1
5°	10054.3	9970.9	9700.6	9075.1	8527.7	7995.0	7481.2	7179.9	6806.0	6426.7	6332.5
7.5°	9324.0	9236.5	8846.5	7989.7	7252.6	6483.2	5816.0	5403.1	4980.8	4633.7	4449.5
10°	8564.0	8468.5	8030.0	6990.3	6082.4	5387.0	4897.4	4503.3	4103.8	3732.5	3436.6
12.5°	8040.8	7915.7	7439.5	6261.3	5470.4	4998.2	4540.9	4068.8	3528.1	3130.0	2804.5
15°	7821.5	7679.0	7175.9	5980.1	5253.8	4699.6	4103.8	3524.1	2890.5	2434.6	2136.0
17.5°	7991.0	7805.4	7266.0	5961.3	4982.1	4227.5	3474.3	2793.7	2106.4	1645.0	1432.5
20°	8566.7	8323.2	7638.6	5955.9	4652.6	3666.6	2711.6	1942.3	1388.1	1116.4	1004.8
22.5°	9473.3	9151.8	8173.9	5999.0	4312.3	3077.5	1958.4	1319.5	1042.4	901.2	835.3
25°	10568.1	10195.6	8944.7	6151.0	4013.7	2504.5	1423.1	1042.4	879.7	776.1	721.0
27.5°	11609.2	11306.6	9918.5	6370.2	3782.3	2041.8	1155.4	883.7	751.9	683.3	638.9
30°	12649.0	12268.3	10917.9	6631.2	3503.9	1728.4	1015.5	805.7	673.9	601.2	573.0
32.5°	13404.9	13088.8	11700.7	6819.5	3206.6	1524.0	907.9	737.1	629.5	555.5	513.8
35°	14294.0	13936.2	12371.9	6861.2	3015.6	1394.8	816.5	663.1	546.1	480.2	435.8
37.5°	15254.3	14809.1	13146.6	6769.7	2866.3	1331.6	747.9	629.5	509.8	442.5	395.4
40°	16316.9	15813.9	13890.4	6637.9	2719.7	1310.1	695.4	603.9	481.5	412.9	364.5
42.5°	17436.0	16842.9	14534.7	6499.3	2626.9	1236.1	690.0	578.4	460.0	386.0	337.6
45°	18376.2	17775.0	15196.5	6453.6	2561.0	1155.4	712.9	560.9	445.2	364.5	317.4
47.5°	19125.4	18556.5	15874.4	6555.8	2523.3	1081.4	649.7	583.8	437.1	345.7	299.9
50°	20019.9	19375.6	16829.4	6861.2	2468.2	1007.5	587.8	668.5	437.1	333.6	285.2
52.5°	21141.7	20504.1	17894.7	7334.6	2357.9	905.2	528.6	669.8	441.2	317.4	266.3
55°	22552.6	22089.9	19416.0	7853.8	2181.7	754.6	457.3	575.7	425.0	287.8	248.8
57.5°	23905.8	23527.8	20802.7	8208.9	1946.3	589.1	398.1	464.0	388.7	252.9	221.9
59°	24275.7	23862.7	21311.2	8225.0	1770.1	513.8	368.5	383.3	380.7	236.7	205.8
60°	24275.7	23837.2	21457.8	8139.0	1642.3	472.1	349.7	341.6	396.8	226.0	196.4
62.5°	23835.8	23219.8	20981.6	7556.6	1339.7	402.2	305.3	282.5	356.4	203.1	173.5
65°	22921.2	22024.0	19359.5	6503.4	1194.4	368.5	263.6	231.4	247.5	178.9	152.0
67.5°	21395.9	20180.0	17020.4	5253.8	1136.6	359.1	227.3	196.4	187.0	153.3	133.2
70°	18709.8	17360.7	14181.0	4130.7	1086.8	355.1	191.0	165.4	150.6	129.1	113.0
72.5°	13617.4	12210.5	10067.8	3229.5	1057.2	363.2	153.3	138.5	123.7	100.9	87.4
75°	7789.2	6867.9	5658.7	2133.3	901.2	347.0	118.4	115.7	88.8	72.6	60.5
77.5°	4024.4	3902.0	3390.9	819.1	431.8	152.0	78.0	67.3	52.5	44.4	36.3
80°	1736.5	1717.6	1486.3	236.7	114.3	84.7	44.4	28.2	24.2	18.8	14.8
82.5°	599.9	599.9	528.6	79.4	51.1	41.7	5.4	0.0	0.0	0.0	0.0
85°	121.1	135.9	95.5	0.0	17.5	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°	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6
2.5°	8066.3	7903.6	7892.8	7790.6	7662.8	7605.0	7571.3	7630.5	7703.2	7711.2	7820.2
5°	6261.3	6090.4	6161.7	5980.1	6016.5	5980.1	5921.0	5931.7	5964.0	5863.1	5988.2
7.5°	4397.0	4267.9	4349.9	4301.5	4366.1	4391.6	4355.3	4301.5	4142.8	4124.0	4232.9
10°	3314.2	3167.6	3080.2	2988.7	3008.9	3050.6	3037.1	2998.1	2897.3	2902.6	3007.6
12.5°	2663.2	2499.1	2325.6	2101.0	2045.8	2076.8	2045.8	2023.0	1926.1	1934.2	2027.0
15°	2020.3	1885.8	1704.2	1524.0	1425.8	1435.2	1349.1	1288.6	1228.0	1155.4	1211.9
17.5°	1363.9	1281.8	1228.0	1174.2	1057.2	1030.3	921.4	804.3	758.6	725.0	749.2
20°	965.8	921.4	899.8	897.2	829.9	796.3	690.0	617.4	594.5	587.8	602.6
22.5°	807.0	774.8	743.8	726.3	692.7	653.7	573.0	536.7	520.5	512.5	523.2
25°	702.1	677.9	645.6	616.0	602.6	560.9	503.1	476.2	465.4	457.3	462.7
27.5°	624.1	602.6	564.9	546.1	535.3	499.0	449.3	427.7	418.3	415.6	414.3
30°	562.2	542.1	507.1	485.6	466.7	434.5	404.9	383.3	373.9	371.2	368.5
32.5°	500.4	484.2	461.4	439.8	419.7	390.1	364.5	347.0	332.2	329.5	328.2
35°	422.3	406.2	394.1	392.8	373.9	345.7	326.8	304.0	291.9	287.8	289.2
37.5°	375.3	353.8	326.8	336.3	330.9	310.7	285.2	262.3	250.2	247.5	247.5
40°	345.7	322.8	291.9	275.7	291.9	287.8	247.5	224.6	212.5	211.2	208.5
42.5°	317.4	294.6	259.6	232.7	240.8	252.9	213.9	192.3	180.2	177.5	173.5
45°	297.3	273.0	234.0	203.1	187.0	212.5	182.9	156.0	149.3	143.9	141.2
47.5°	278.4	255.6	211.2	176.2	149.3	153.3	146.6	127.8	119.7	114.3	113.0
50°	262.3	238.1	191.0	150.6	123.7	113.0	118.4	100.9	94.2	88.8	86.1
52.5°	243.5	220.6	169.5	130.5	103.6	88.8	90.1	79.4	72.6	68.6	67.3
55°	228.7	205.8	152.0	114.3	91.5	72.6	64.6	61.9	57.8	55.1	53.8
57.5°	208.5	187.0	134.5	96.8	78.0	59.2	49.8	49.8	48.4	45.7	44.4
59°	196.4	177.5	123.7	87.4	71.3	51.1	44.4	45.7	44.4	41.7	40.4
60°	187.0	169.5	115.7	80.7	67.3	47.1	40.4	43.0	41.7	39.0	37.7
62.5°	165.4	153.3	99.5	67.3	59.2	37.7	33.6	36.3	36.3	35.0	33.6
65°	145.3	131.8	84.7	56.5	55.1	32.3	26.9	32.3	33.6	30.9	28.2
67.5°	126.4	113.0	74.0	45.7	51.1	25.6	20.2	26.9	36.3	28.2	25.6
70°	107.6	94.2	57.8	36.3	53.8	17.5	16.1	24.2	43.0	30.9	24.2
72.5°	83.4	72.6	40.4	26.9	57.8	12.1	12.1	20.2	48.4	33.6	22.9
75°	57.8	47.1	24.2	16.1	47.1	8.1	8.1	18.8	45.7	30.9	21.5
77.5°	33.6	25.6	8.1	1.3	24.2	0.0	1.3	13.5	32.3	18.8	9.4
80°	12.1	5.4	0.0	0.0	14.8	0.0	0.0	0.0	2.7	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°	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6
2.5°	7848.4	8030.0	8192.8	8438.9	8730.8	9067.1	9356.2	9667.0	9958.8	10079.9	10163.3
5°	6013.8	6238.4	6500.7	6862.5	7344.0	7937.2	8492.7	9120.9	9796.1	10133.7	10451.1
7.5°	4251.7	4480.4	4805.9	5190.6	5773.0	6479.2	7205.5	8073.1	8987.7	9521.7	10047.6
10°	3057.3	3338.4	3642.4	4168.3	4760.2	5430.0	6177.9	7146.3	8165.9	8757.7	9391.2
12.5°	2080.8	2400.9	2860.9	3450.1	4145.5	4801.9	5451.5	6375.6	7559.2	8145.7	8824.9
15°	1248.2	1425.8	1912.7	2594.6	3447.4	4265.2	4976.7	5903.5	7165.1	7883.4	8589.6
17.5°	769.4	851.4	1116.4	1675.9	2571.8	3606.1	4581.3	5743.4	7221.6	8095.9	8851.8
20°	613.3	645.6	730.4	990.0	1704.2	2879.8	4136.1	5711.1	7683.0	8759.0	9570.1
22.5°	532.6	563.6	620.1	719.6	1072.0	2156.1	3713.7	5740.7	8344.8	9753.0	10700.0
25°	469.4	496.3	550.1	632.2	785.5	1518.6	3261.8	5872.5	9206.9	10986.5	11992.6
27.5°	419.7	442.5	492.3	567.6	673.9	1059.9	2749.3	6032.6	10229.2	12248.1	13240.8
30°	373.9	394.1	438.5	508.4	585.1	815.1	2187.1	6141.5	11252.8	13240.8	14132.6
32.5°	334.9	349.7	390.1	449.3	508.4	649.7	1662.5	6124.1	12012.7	14066.7	14774.2
35°	294.6	309.4	344.3	395.4	442.5	536.7	1307.4	5797.2	12674.5	14923.5	15508.6
37.5°	250.2	269.0	302.6	348.4	380.7	472.1	1057.2	5403.1	13345.7	15902.7	16327.7
40°	212.5	231.4	260.9	310.7	330.9	447.9	812.4	4922.9	14100.3	16997.5	17226.2
42.5°	176.2	193.7	224.6	267.7	312.1	386.0	601.2	4374.1	14825.3	17933.7	18045.3
45°	142.6	160.1	192.3	235.4	333.6	320.1	465.4	3786.3	15410.4	18712.5	18748.8
47.5°	113.0	129.1	162.8	221.9	310.7	255.6	332.2	3325.0	15901.3	19320.5	19225.0
50°	87.4	100.9	135.9	254.2	271.7	211.2	251.5	3171.7	16341.1	19697.1	19449.6
52.5°	68.6	80.7	111.6	238.1	211.2	174.9	211.2	3315.6	16943.7	20009.1	19576.0
55°	55.1	67.3	87.4	135.9	143.9	148.0	180.2	3450.1	17983.5	20740.8	20322.5
57.5°	45.7	57.8	71.3	95.5	108.9	125.1	160.1	3464.9	19208.8	21956.8	21561.3
59°	41.7	52.5	64.6	84.7	95.5	114.3	150.6	3384.2	19640.6	22399.3	22201.6
60°	39.0	49.8	60.5	78.0	88.8	107.6	145.3	3307.5	19659.4	22383.2	22474.6
62.5°	33.6	44.4	53.8	65.9	75.3	91.5	130.5	3023.7	18863.1	21650.1	22310.5
65°	29.6	39.0	48.4	56.5	64.6	82.0	118.4	2505.8	17503.3	20467.8	21187.4
67.5°	26.9	33.6	44.4	49.8	57.8	72.6	104.9	1786.2	15804.5	19021.9	19488.6
70°	24.2	32.3	40.4	45.7	52.5	63.2	90.1	1026.3	13345.7	16904.7	17237.0
72.5°	22.9	30.9	36.3	43.0	47.1	56.5	82.0	482.9	9771.9	13542.1	14409.6
75°	20.2	28.2	33.6	40.4	44.4	51.1	69.9	231.4	6499.3	9800.1	10786.0
77.5°	12.1	22.9	30.9	36.3	39.0	44.4	57.8	133.2	4148.2	6783.1	7989.7
80°	0.0	8.1	22.9	30.9	33.6	37.7	44.4	104.9	2219.4	3875.1	4651.2
82.5°	0.0	0.0	16.1	24.2	22.9	25.6	33.6	65.9	1000.7	2532.8	2854.2
85°	0.0	0.0	5.4	18.8	16.1	12.1	22.9	22.9	219.2	1281.8	1599.3
87.5°	0.0	0.0	0.0	1.3	8.1	5.4	9.4	2.7	1.3	95.5	387.4
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-SA8B-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6	9248.6
2.5°	10455.2	10554.7	10722.8	10802.2	10763.2	10597.7	10400.0	10198.3	10079.9	10127.0
5°	11098.1	11610.6	11906.5	12004.7	11840.6	11469.3	10983.8	10343.5	10116.2	10054.3
7.5°	11098.1	12062.5	12673.2	12780.8	12414.9	11687.2	10776.6	9777.3	9445.0	9324.0
10°	10708.0	12020.8	12872.2	13043.1	12531.9	11443.8	10223.8	9083.2	8689.1	8564.0
12.5°	10268.2	11681.9	12579.0	12814.4	12394.7	11201.7	9840.5	8613.8	8149.7	8040.8
15°	9997.8	11264.9	12007.4	12178.2	12000.6	11060.4	9749.0	8472.5	7926.4	7821.5
17.5°	10094.7	10942.1	11209.7	11309.3	11429.0	11010.7	9997.8	8781.9	8090.5	7991.0
20°	10459.2	10601.8	10463.2	10588.3	10911.1	11059.1	10591.0	9529.8	8699.9	8566.7
22.5°	11077.9	10425.6	10036.8	10086.6	10479.4	11219.2	11497.6	10597.7	9640.1	9473.3
25°	11798.9	10568.1	9800.1	9755.7	10159.2	11430.3	12326.1	11759.9	10752.4	10568.1
27.5°	12705.4	10888.3	9751.7	9707.3	10047.6	11628.1	13014.8	12908.6	11924.0	11609.2
30°	13404.9	11203.0	9895.6	9793.4	10159.2	11765.3	13567.6	13883.7	12857.4	12649.0
32.5°	13906.6	11574.3	10129.7	9981.7	10474.0	12002.0	13994.0	14776.8	13721.0	13404.9
35°	14288.6	11977.8	10507.6	10264.2	10907.1	12361.1	14393.5	15727.8	14639.6	14294.0
37.5°	14646.4	12544.0	11098.1	10807.6	11586.4	12939.5	14815.8	16806.5	15667.3	15254.3
40°	15145.4	13185.6	12008.7	11750.5	12728.3	13727.7	15343.1	17931.0	16836.1	16316.9
42.5°	15644.4	13874.3	12940.8	13010.8	14152.7	14685.4	16023.7	19120.0	17990.2	17436.0
45°	16100.4	14584.5	14268.4	14591.2	15474.9	15735.9	16700.3	19807.4	18911.6	18376.2
47.5°	16506.6	15472.2	15587.9	16447.4	16978.7	16686.8	17206.0	20400.5	19597.5	19125.4
50°	16978.7	16620.9	17327.1	18543.0	18709.8	17547.7	17666.0	21102.7	20399.2	20019.9
52.5°	17495.2	17831.5	19253.2	20325.2	20271.4	18482.5	18128.7	21889.5	21498.1	21141.7
55°	18081.7	18809.3	20949.3	21993.1	21947.4	19526.3	18895.4	22862.0	22875.5	22552.6
57.5°	18951.9	19651.3	22100.7	23342.2	23418.9	20731.4	20194.8	23951.5	24121.0	23905.8
59°	19576.0	20197.4	22556.7	23905.8	24217.8	21663.6	21144.4	24583.7	24472.0	24275.7
60°	20038.7	20544.5	22782.6	24200.3	24681.9	22295.7	21845.1	24954.9	24513.7	24275.7
62.5°	21183.4	21300.4	23190.2	24533.9	25215.9	23700.0	23817.0	25587.1	24224.6	23835.8
65°	21717.4	21777.9	23184.8	23936.7	24699.4	24793.5	25605.9	25605.9	23518.4	22921.2
67.5°	21494.1	21202.2	22034.8	21956.8	22718.1	24143.8	26278.5	24667.1	22168.0	21395.9
70°	19678.2	18555.1	18185.2	18218.9	18801.3	21000.4	24946.9	21904.3	19612.3	18709.8
72.5°	16373.4	13679.3	12766.0	13808.4	13960.4	16139.4	21260.0	16495.8	14463.4	13617.4
75°	13169.5	9642.7	8157.8	9258.1	9516.3	11811.0	16446.1	10273.6	8448.3	7789.2
77.5°	9461.2	6921.7	5853.7	5777.0	6110.6	7490.6	11669.8	5170.4	4312.3	4024.4
80°	5374.9	4555.7	4905.4	4628.4	4796.5	4683.5	5544.3	2267.8	1857.5	1736.5
82.5°	3244.3	2692.8	2916.1	2427.8	3072.1	2675.3	2136.0	726.3	630.8	599.9
85°	2110.4	1471.5	766.7	513.8	1058.6	1709.6	477.5	197.7	152.0	121.1
87.5°	727.7	375.3	37.7	16.1	113.0	318.8	17.5	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)