

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: P383648

Luminaire Tested: **GAN-SA9B-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383648
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-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 35278.6 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

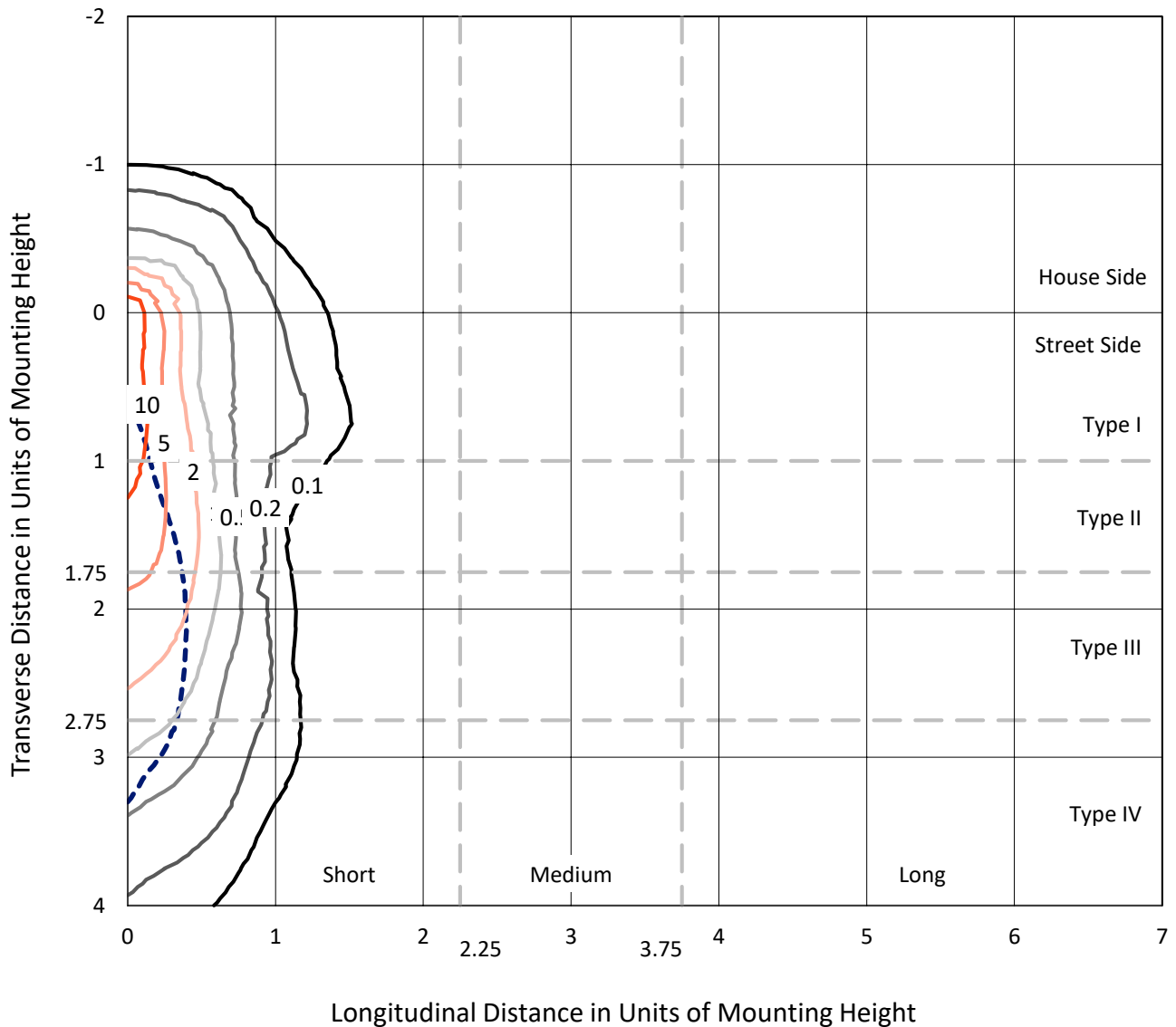
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

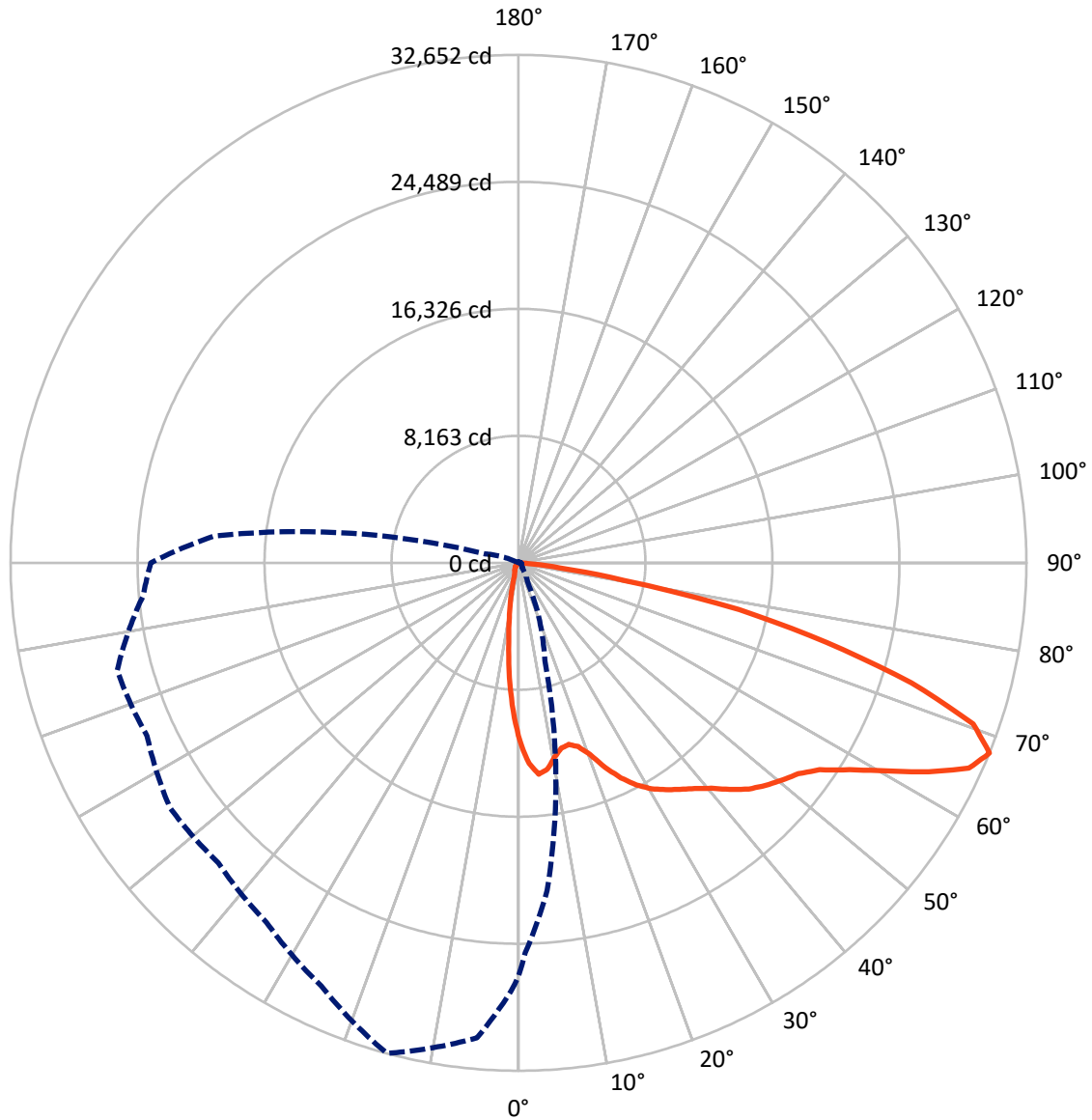
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4269.9	0.0	4269.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	31008.8	0.0	31008.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	35278.6	0.0	35278.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.0	2.5
10°-20°	1755.6	5.0
20°-30°	2493.0	7.1
30°-40°	3682.2	10.4
40°-50°	5310.6	15.1
50°-60°	7454.9	21.1
60°-70°	8690.3	24.6
70°-80°	4442.7	12.6
80°-90°	567.4	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°	35278.6	100.0
0°-180°	35278.6	100.0

Coefficient of Utilization

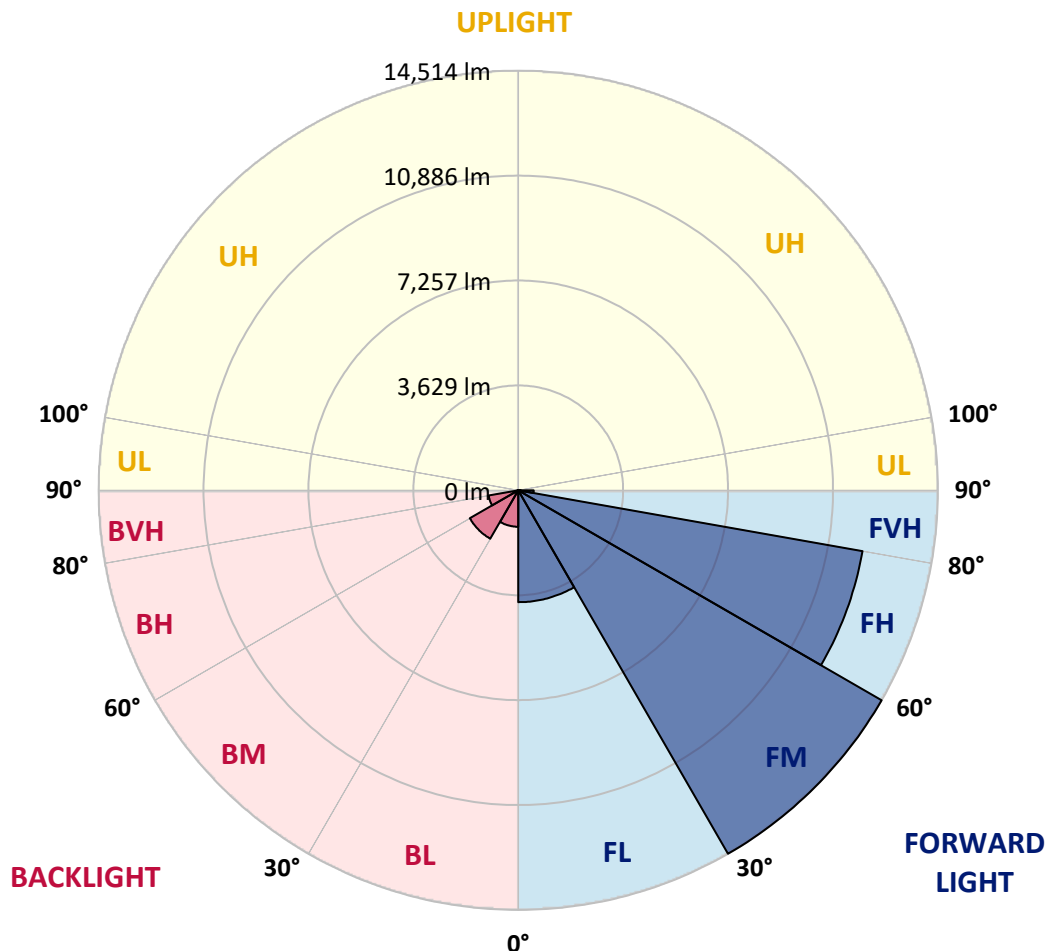


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3869.4	11.0			
FM (30°-60°)	14514.2	41.1			
FH (60°-80°)	12092.3	34.3			G5
FVH (80°-90°)	532.9	1.5			G4/750
BL (0°-30°)	1261.2	3.6	B3/2500		
BM (30°-60°)	1933.5	5.5	B2/2500		
BH (60°-80°)	1040.7	2.9	B3/2500		G3/2500
BVH (80°-90°)	34.5	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-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9
2.5°	12583.3	12486.4	12379.4	12030.1	11705.9	11334.9	11032.3	10821.8	10557.7	10215.1	10128.2
5°	12493.1	12389.5	12053.5	11276.4	10596.2	9934.3	9295.8	8921.4	8456.9	7985.5	7868.5
7.5°	11585.6	11476.9	10992.3	9927.6	9011.7	8055.7	7226.8	6713.7	6188.8	5757.7	5528.7
10°	10641.3	10522.6	9977.7	8685.8	7557.6	6693.6	6085.2	5595.5	5099.2	4637.9	4270.2
12.5°	9991.1	9835.7	9244.0	7780.0	6797.2	6210.6	5642.4	5055.7	4383.9	3889.1	3484.7
15°	9718.6	9541.6	8916.5	7430.7	6528.2	5839.6	5099.2	4378.8	3591.7	3025.1	2654.1
17.5°	9929.3	9698.6	9028.5	7407.3	6190.5	5252.9	4317.0	3471.3	2617.3	2044.0	1779.9
20°	10644.6	10342.0	9491.4	7400.6	5781.1	4556.0	3369.4	2413.4	1724.8	1387.2	1248.5
22.5°	11771.0	11371.6	10156.6	7454.1	5358.3	3824.0	2433.4	1639.5	1295.2	1119.8	1037.9
25°	13131.5	12668.6	11114.2	7642.9	4987.2	3112.0	1768.3	1295.2	1093.1	964.3	895.9
27.5°	14425.1	14049.0	12324.3	7915.4	4699.8	2537.1	1435.7	1098.0	934.2	849.0	793.9
30°	15717.1	15244.0	13566.0	8239.5	4353.8	2147.7	1261.9	1001.1	837.4	747.1	712.0
32.5°	16656.4	16263.5	14538.8	8473.5	3984.4	1893.6	1128.1	915.9	782.2	690.3	638.5
35°	17761.1	17316.4	15372.8	8525.3	3747.1	1733.1	1014.5	824.0	678.5	596.7	541.5
37.5°	18954.4	18401.1	16335.4	8411.7	3561.6	1654.6	929.2	782.2	633.5	549.9	491.4
40°	20274.7	19649.6	17259.6	8247.9	3379.4	1627.9	864.1	750.5	598.3	513.1	452.9
42.5°	21665.3	20928.1	18060.2	8075.8	3264.0	1535.9	857.4	718.7	571.6	479.7	419.5
45°	22833.4	22086.4	18882.5	8018.9	3182.2	1435.7	885.8	697.0	553.2	452.9	394.4
47.5°	23764.4	23057.5	19724.9	8146.0	3135.4	1343.8	807.3	725.4	543.2	429.5	372.7
50°	24875.9	24075.3	20911.5	8525.3	3066.8	1251.8	730.3	830.7	543.2	414.4	354.4
52.5°	26269.7	25477.5	22235.1	9113.7	2929.8	1124.8	656.8	832.3	548.2	394.4	330.9
55°	28022.9	27448.0	24125.4	9758.8	2710.9	937.6	568.2	715.3	528.1	357.6	309.2
57.5°	29704.3	29234.6	25848.5	10200.0	2418.4	732.0	494.7	576.6	483.0	314.2	275.7
59°	30163.9	29650.8	26480.3	10220.1	2199.5	638.5	457.9	476.3	472.9	294.2	255.7
60°	30163.9	29619.0	26662.5	10113.2	2040.6	586.6	434.6	424.5	493.1	280.8	244.0
62.5°	29617.3	28851.9	26070.9	9389.4	1664.6	499.7	379.4	351.0	442.9	252.4	215.6
65°	28480.9	27366.1	24055.3	8080.8	1484.1	457.9	327.5	287.5	307.5	222.3	188.8
67.5°	26585.6	25074.7	21148.8	6528.2	1412.2	446.2	282.4	244.0	232.3	190.5	165.4
70°	23248.0	21571.7	17620.7	5132.6	1350.5	441.2	237.4	205.6	187.1	160.4	140.4
72.5°	16920.4	15172.2	12509.8	4012.8	1313.7	451.2	190.5	172.1	153.8	125.4	108.6
75°	9678.6	8533.7	7031.2	2650.7	1119.8	431.2	147.1	143.7	110.3	90.3	75.2
77.5°	5000.5	4848.5	4213.4	1017.8	536.5	188.8	97.0	83.6	65.2	55.1	45.1
80°	2157.7	2134.3	1846.8	294.2	142.1	105.3	55.1	35.1	30.1	23.4	18.4
82.5°	745.4	745.4	656.8	98.7	63.5	51.8	6.7	0.0	0.0	0.0	0.0
85°	150.4	168.8	118.7	0.0	21.7	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°	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9
2.5°	10022.9	9820.7	9807.2	9680.3	9521.4	9449.6	9407.8	9481.4	9571.7	9581.6	9717.0
5°	7780.0	7567.7	7656.3	7430.7	7475.8	7430.7	7357.1	7370.5	7410.6	7285.3	7440.6
7.5°	5463.5	5303.1	5405.0	5344.8	5425.1	5456.8	5411.7	5344.8	5147.6	5124.3	5259.6
10°	4118.1	3936.0	3827.3	3713.6	3738.8	3790.6	3773.8	3725.4	3600.0	3606.7	3737.1
12.5°	3309.2	3105.3	2889.7	2610.6	2542.1	2580.5	2542.1	2513.7	2393.3	2403.4	2518.6
15°	2510.3	2343.2	2117.6	1893.6	1771.6	1783.3	1676.3	1601.1	1525.9	1435.7	1505.8
17.5°	1694.7	1592.8	1525.9	1459.1	1313.7	1280.2	1144.9	999.5	942.6	900.8	930.9
20°	1200.0	1144.9	1118.1	1114.8	1031.2	989.4	857.4	767.1	738.7	730.3	748.8
22.5°	1002.8	962.7	924.3	902.5	860.7	812.2	712.0	666.9	646.8	636.8	650.1
25°	872.4	842.3	802.2	765.5	748.8	697.0	625.1	591.6	578.3	568.2	575.0
27.5°	775.5	748.8	701.9	678.5	665.2	620.0	558.2	531.4	519.8	516.4	514.8
30°	698.6	673.5	630.1	603.4	580.0	539.8	503.0	476.3	464.7	461.3	457.9
32.5°	621.7	601.7	573.3	546.5	521.5	484.7	452.9	431.2	412.8	409.5	407.8
35°	524.8	504.7	489.7	488.0	464.7	429.5	406.2	377.7	362.7	357.6	359.3
37.5°	466.3	439.6	406.2	417.8	411.2	386.0	354.4	325.9	310.9	307.5	307.5
40°	429.5	401.1	362.7	342.6	362.7	357.6	307.5	279.1	264.1	262.4	259.1
42.5°	394.4	366.0	322.6	289.2	299.1	314.2	265.8	239.0	223.9	220.6	215.6
45°	369.4	339.3	290.8	252.4	232.3	264.1	227.3	193.9	185.5	178.9	175.5
47.5°	346.0	317.6	262.4	218.9	185.5	190.5	182.2	158.7	148.8	142.1	140.4
50°	325.9	295.9	237.4	187.1	153.8	140.4	147.1	125.4	117.0	110.3	106.9
52.5°	302.5	274.1	210.6	162.1	128.6	110.3	112.0	98.7	90.3	85.2	83.6
55°	284.1	255.7	188.8	142.1	113.6	90.3	80.2	76.9	71.8	68.6	66.9
57.5°	259.1	232.3	167.1	120.4	97.0	73.5	61.9	61.9	60.2	56.8	55.1
59°	244.0	220.6	153.8	108.6	88.6	63.5	55.1	56.8	55.1	51.8	50.1
60°	232.3	210.6	143.7	100.2	83.6	58.5	50.1	53.5	51.8	48.4	46.8
62.5°	205.6	190.5	123.7	83.6	73.5	46.8	41.8	45.1	45.1	43.4	41.8
65°	180.5	163.8	105.3	70.2	68.6	40.1	33.4	40.1	41.8	38.5	35.1
67.5°	157.1	140.4	91.9	56.8	63.5	31.8	25.1	33.4	45.1	35.1	31.8
70°	133.7	117.0	71.8	45.1	66.9	21.7	20.0	30.1	53.5	38.5	30.1
72.5°	103.6	90.3	50.1	33.4	71.8	15.0	15.0	25.1	60.2	41.8	28.4
75°	71.8	58.5	30.1	20.0	58.5	10.1	10.1	23.4	56.8	38.5	26.7
77.5°	41.8	31.8	10.1	1.7	30.1	0.0	1.7	16.7	40.1	23.4	11.7
80°	15.0	6.7	0.0	0.0	18.4	0.0	0.0	0.0	3.4	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°	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9
2.5°	9752.1	9977.7	10180.0	10485.8	10848.5	11266.3	11625.6	12011.7	12374.4	12524.8	12628.4
5°	7472.4	7751.6	8077.4	8527.0	9125.3	9862.4	10552.7	11333.2	12172.2	12591.6	12986.1
7.5°	5283.0	5567.1	5971.6	6449.6	7173.3	8050.7	8953.2	10031.2	11167.7	11831.2	12484.7
10°	3798.9	4148.2	4525.9	5179.4	5914.8	6747.1	7676.3	8879.7	10146.5	10882.0	11669.1
12.5°	2585.5	2983.3	3554.9	4286.9	5151.0	5966.6	6773.8	7922.1	9392.8	10121.5	10965.5
15°	1550.9	1771.6	2376.6	3224.0	4283.5	5299.8	6183.9	7335.4	8903.1	9795.6	10673.0
17.5°	956.0	1058.0	1387.2	2082.5	3195.6	4480.8	5692.5	7136.5	8973.3	10059.6	10998.9
20°	762.1	802.2	907.5	1230.1	2117.6	3578.3	5139.3	7096.4	9546.5	10883.6	11891.4
22.5°	661.9	700.2	770.5	894.2	1332.0	2679.1	4614.5	7133.1	10368.9	12118.7	13295.3
25°	583.2	616.7	683.6	785.5	976.1	1886.9	4053.0	7297.0	11440.1	13651.3	14901.4
27.5°	521.5	549.9	611.7	705.3	837.4	1317.0	3416.2	7495.9	12710.3	15219.0	16452.4
30°	464.7	489.7	544.9	631.8	727.0	1012.8	2717.5	7631.2	13982.3	16452.4	17560.5
32.5°	416.1	434.6	484.7	558.2	631.8	807.3	2065.7	7609.5	14926.5	17478.6	18357.7
35°	366.0	384.4	427.9	491.4	549.9	666.9	1624.5	7203.4	15748.7	18543.2	19270.3
37.5°	310.9	334.2	376.1	432.9	472.9	586.6	1313.7	6713.7	16582.8	19759.9	20288.1
40°	264.1	287.5	324.3	386.0	411.2	556.5	1009.5	6117.0	17520.4	21120.4	21404.5
42.5°	218.9	240.7	279.1	332.6	387.7	479.7	747.1	5435.1	18421.3	22283.6	22422.4
45°	177.2	198.9	239.0	292.5	414.4	397.8	578.3	4704.8	19148.2	23251.3	23296.4
47.5°	140.4	160.4	202.2	275.7	386.0	317.6	412.8	4131.5	19758.3	24006.7	23888.0
50°	108.6	125.4	168.8	315.9	337.6	262.4	312.5	3940.9	20304.8	24474.7	24167.2
52.5°	85.2	100.2	138.7	295.9	262.4	217.2	262.4	4119.8	21053.5	24862.4	24324.3
55°	68.6	83.6	108.6	168.8	178.9	183.9	223.9	4286.9	22345.5	25771.6	25251.8
57.5°	56.8	71.8	88.6	118.7	135.4	155.5	198.9	4305.3	23868.0	27282.5	26791.1
59°	51.8	65.2	80.2	105.3	118.7	142.1	187.1	4205.0	24404.5	27832.4	27586.7
60°	48.4	61.9	75.2	97.0	110.3	133.7	180.5	4109.8	24427.9	27812.3	27925.9
62.5°	41.8	55.1	66.9	81.9	93.6	113.6	162.1	3757.1	23438.5	26901.4	27722.1
65°	36.8	48.4	60.2	70.2	80.2	101.9	147.1	3113.7	21748.8	25432.4	26326.6
67.5°	33.4	41.8	55.1	61.9	71.8	90.3	130.3	2219.5	19638.0	23635.7	24215.7
70°	30.1	40.1	50.1	56.8	65.2	78.5	112.0	1275.2	16582.8	21005.1	21417.9
72.5°	28.4	38.5	45.1	53.5	58.5	70.2	101.9	600.0	12142.1	16826.8	17904.8
75°	25.1	35.1	41.8	50.1	55.1	63.5	86.9	287.5	8075.8	12177.2	13402.3
77.5°	15.0	28.4	38.5	45.1	48.4	55.1	71.8	165.4	5154.3	8428.5	9927.6
80°	0.0	10.1	28.4	38.5	41.8	46.8	55.1	130.3	2757.7	4815.1	5779.4
82.5°	0.0	0.0	20.0	30.1	28.4	31.8	41.8	81.9	1243.4	3147.0	3546.5
85°	0.0	0.0	6.7	23.4	20.0	15.0	28.4	28.4	272.4	1592.8	1987.2
87.5°	0.0	0.0	0.0	1.7	10.1	6.7	11.7	3.4	1.7	118.7	481.3
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-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9	11491.9
2.5°	12991.1	13114.8	13323.7	13422.3	13373.9	13168.3	12922.6	12671.9	12524.8	12583.3
5°	13790.0	14426.8	14794.5	14916.5	14712.6	14251.3	13647.9	12852.4	12569.9	12493.1
7.5°	13790.0	14988.3	15747.2	15880.8	15426.2	14522.1	13390.5	12148.8	11736.0	11585.6
10°	13305.3	14936.5	15994.5	16206.7	15571.7	14219.5	12703.6	11286.4	10796.7	10641.3
12.5°	12758.8	14515.4	15630.2	15922.6	15401.2	13918.7	12227.3	10703.1	10126.5	9991.1
15°	12422.8	13997.2	14919.9	15132.1	14911.5	13743.2	12113.7	10527.6	9849.1	9718.6
17.5°	12543.2	13596.1	13928.7	14052.4	14201.2	13681.4	12422.8	10912.0	10053.0	9929.3
20°	12996.1	13173.3	13001.1	13156.6	13557.7	13741.5	13159.9	11841.3	10810.1	10644.6
22.5°	13764.9	12954.4	12471.4	12533.1	13021.2	13940.4	14286.4	13168.3	11978.3	11771.0
25°	14660.8	13131.5	12177.2	12122.0	12623.4	14202.8	15315.9	14612.3	13360.4	13131.5
27.5°	15787.2	13529.2	12117.0	12061.9	12484.7	14448.5	16171.7	16039.6	14816.2	14425.1
30°	16656.4	13920.4	12295.9	12168.8	12623.4	14619.0	16858.5	17251.3	15976.0	15717.1
32.5°	17279.7	14381.7	12586.7	12402.8	13014.6	14913.1	17388.4	18361.1	17049.1	16656.4
35°	17754.4	14883.1	13056.3	12753.8	13552.7	15359.4	17884.7	19542.7	18190.6	17761.1
37.5°	18198.9	15586.7	13790.0	13429.0	14396.7	16078.0	18409.5	20883.1	19467.5	18954.4
40°	18819.0	16383.9	14921.5	14600.6	15815.6	17057.4	19064.7	22280.3	20919.9	20274.7
42.5°	19439.1	17239.6	16079.7	16166.6	17585.6	18247.4	19910.3	23757.7	22353.8	21665.3
45°	20005.6	18122.0	17729.3	18130.4	19228.4	19552.7	20751.1	24611.8	23498.7	22833.4
47.5°	20510.3	19225.1	19368.8	20436.9	21096.9	20734.3	21379.5	25348.8	24351.0	23764.4
50°	21096.9	20652.4	21529.8	23040.7	23248.0	21804.0	21951.0	26221.2	25347.1	24875.9
52.5°	21738.8	22156.6	23923.2	25255.2	25188.4	22965.5	22525.9	27199.0	26712.6	26269.7
55°	22467.4	23371.7	26030.7	27327.6	27270.8	24262.4	23478.6	28407.4	28424.0	28022.9
57.5°	23548.8	24417.9	27461.4	29004.0	29099.2	25760.0	25093.1	29761.1	29971.7	29704.3
59°	24324.3	25096.5	28027.9	29704.3	30092.0	26918.2	26273.1	30546.6	30407.9	30163.9
60°	24899.2	25527.7	28308.7	30070.3	30668.6	27703.7	27143.8	31007.9	30459.7	30163.9
62.5°	26321.5	26466.9	28815.1	30484.8	31332.1	29448.5	29594.0	31793.4	30100.4	29617.3
65°	26985.1	27060.2	28808.4	29742.7	30690.3	30807.3	31816.8	31816.8	29222.9	28480.9
67.5°	26707.6	26344.9	27379.5	27282.5	28228.5	30000.1	32652.4	30650.2	27544.9	26585.6
70°	24451.4	23055.8	22596.2	22637.9	23361.6	26094.2	30997.8	27217.3	24369.4	23248.0
72.5°	20344.9	16997.3	15862.4	17157.7	17346.5	20054.1	26416.8	20497.0	17971.6	16920.4
75°	16363.8	11981.7	10136.5	11503.7	11824.5	14675.8	20435.2	12765.5	10497.5	9678.6
77.5°	11756.0	8600.6	7273.5	7178.3	7592.8	9307.6	14500.3	6424.5	5358.3	5000.5
80°	6678.5	5660.7	6095.3	5751.0	5959.9	5819.5	6889.2	2817.8	2308.1	2157.7
82.5°	4031.2	3345.9	3623.4	3016.7	3817.3	3324.2	2654.1	902.5	783.8	745.4
85°	2622.3	1828.4	952.7	638.5	1315.3	2124.2	593.3	245.6	188.8	150.4
87.5°	904.2	466.3	46.8	20.0	140.4	396.1	21.7	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)