

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: McGRAW-EDISON

Report Number: P457655

Luminaire Tested: **GALN-SA9A-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27115 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

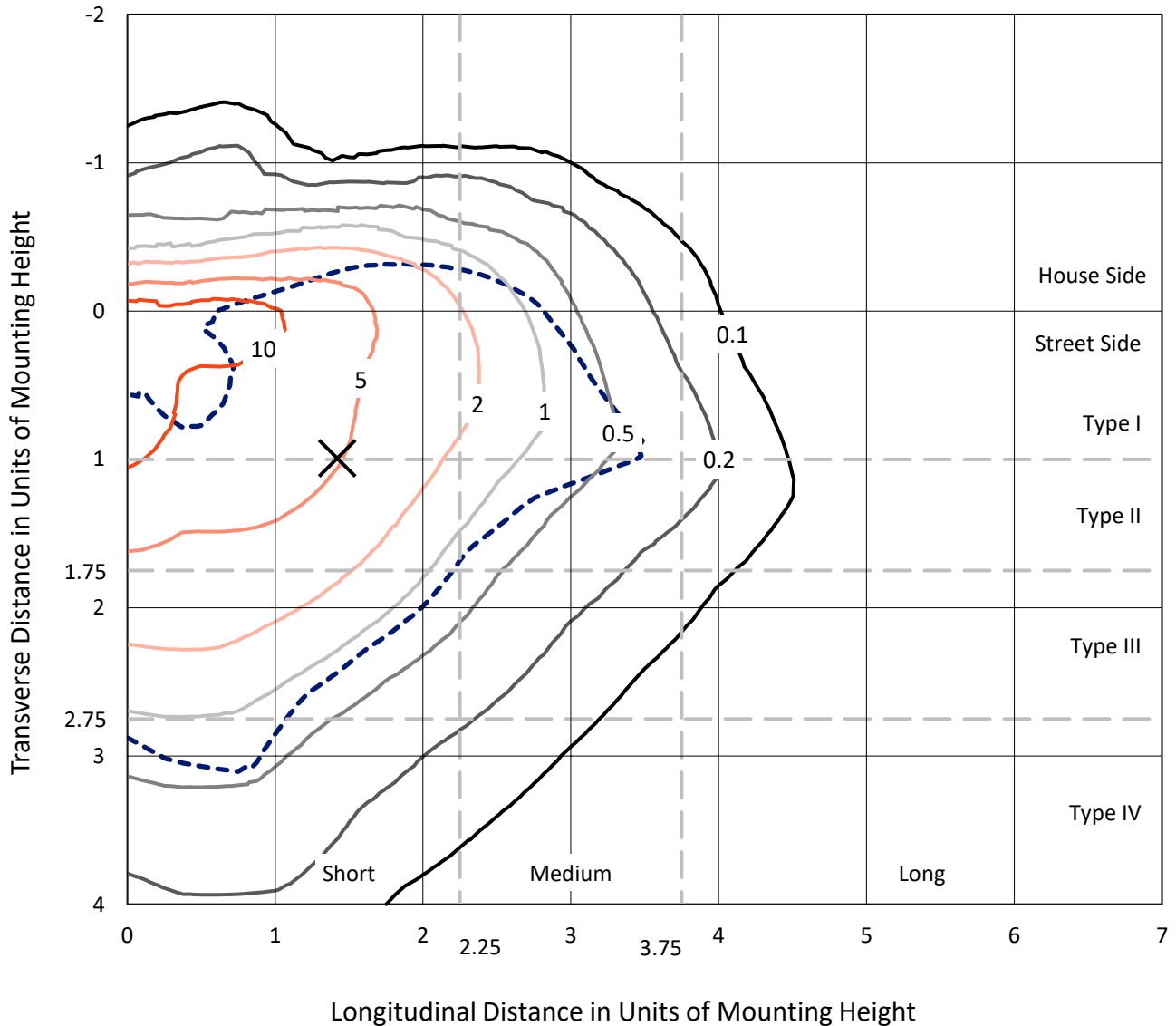
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

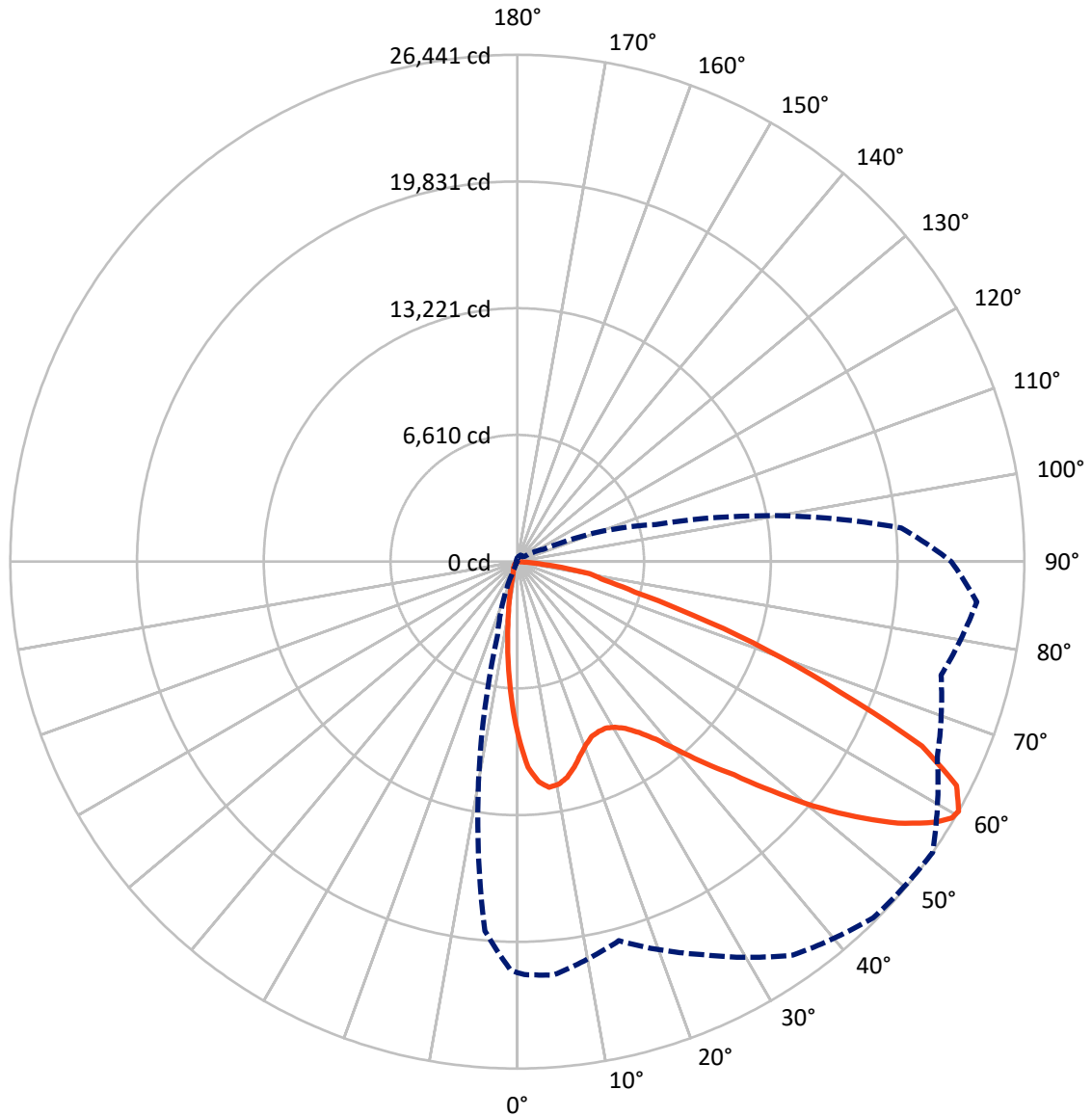
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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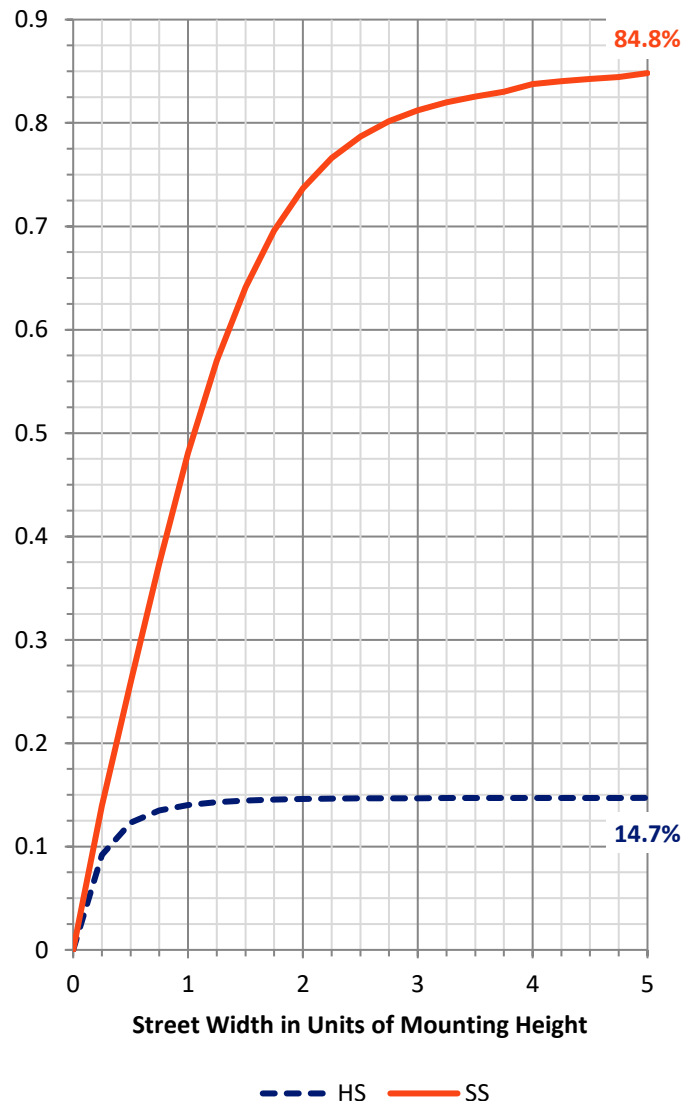
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4024.1	0.0	4024.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	23090.9	0.0	23090.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	27115.0	0.0	27115.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.9	2.5
10°-20°	1338.8	4.9
20°-30°	1981.7	7.3
30°-40°	2953.9	10.9
40°-50°	4326.1	16.0
50°-60°	6245.5	23.0
60°-70°	6569.9	24.2
70°-80°	2702.6	10.0
80°-90°	316.5	1.2
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°	27115.0	100.0
0°-180°	27115.0	100.0



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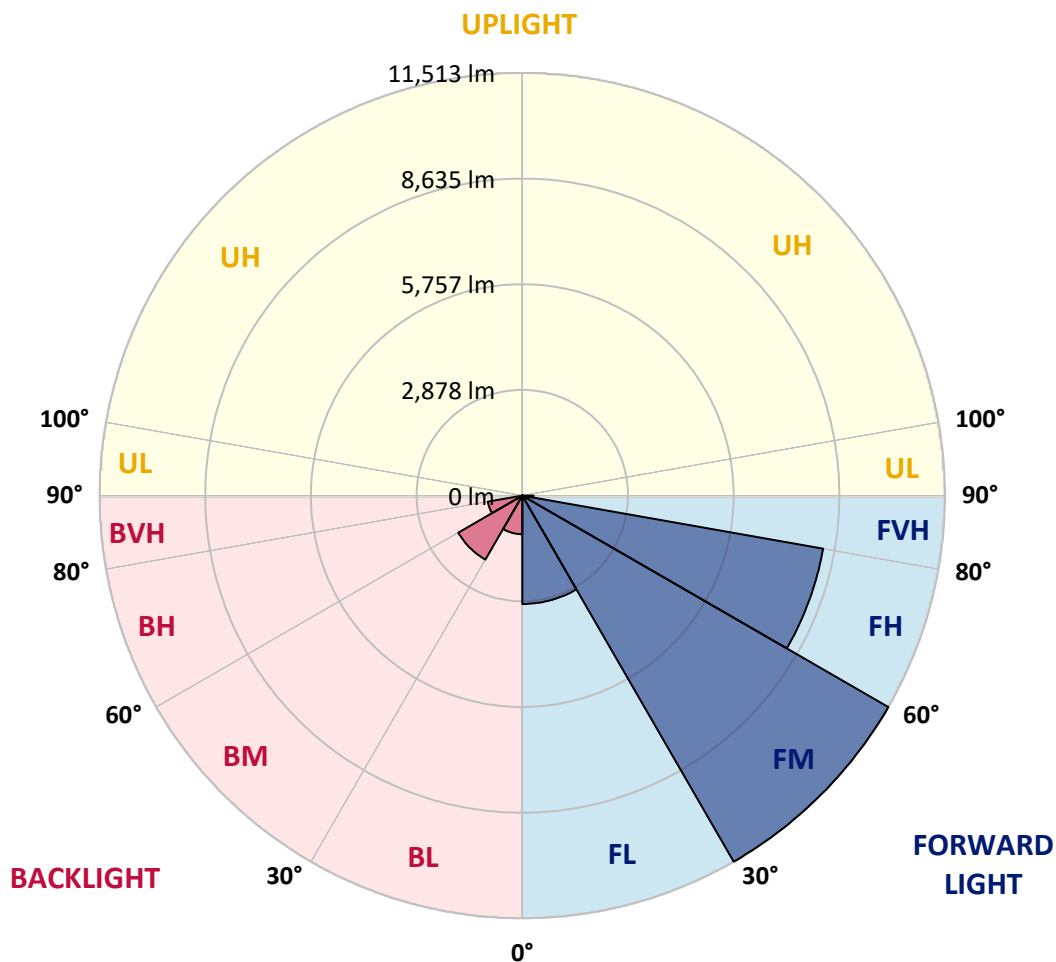
CATALOG NUMBER: GALN-SA9A-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2950.5	10.9			
FM	(30°-60°)	11513.1	42.5			
FH	(60°-80°)	8320.1	30.7			G4/12000
FVH	(80°-90°)	307.2	1.1			G3/500
BL	(0°-30°)	1049.9	3.9	B3/2500		
BM	(30°-60°)	2012.4	7.4	B2/2500		
BH	(60°-80°)	952.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	9.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1
2.5°	10030.5	10013.8	10162.0	10404.1	10648.3	10775.6	10750.5	10740.1	10537.7	10389.5	10078.5
5°	10009.6	10095.2	10360.3	11015.6	11512.3	11752.3	11823.3	11524.9	11130.4	10558.5	9853.1
7.5°	9410.6	9517.1	9949.1	10973.9	11856.7	12378.5	12359.7	11881.7	11067.8	10182.9	9176.9
10°	8667.6	8792.9	9300.0	10543.9	11689.7	12378.5	12416.0	11810.8	10798.6	9663.2	8605.0
12.5°	8143.8	8292.0	8853.4	10143.2	11259.8	11938.1	11981.9	11543.6	10596.1	9462.8	8294.1
15°	7966.4	8106.2	8676.0	9940.8	10802.7	11168.0	11157.5	11111.6	10516.8	9510.8	8310.8
17.5°	8271.1	8385.9	9028.7	10032.6	10374.9	10337.3	10391.6	10612.8	10533.5	9913.6	8836.7
20°	9057.9	9174.8	9865.6	10314.3	10047.2	9809.3	9834.3	10203.7	10687.9	10671.2	9659.0
22.5°	10141.1	10339.4	10965.5	10861.2	10003.4	9481.6	9429.4	9909.5	10950.9	11543.6	10769.3
25°	11512.3	11712.7	12201.1	11733.6	10218.3	9404.4	9356.4	9819.7	11270.2	12395.2	12019.5
27.5°	12664.4	12816.8	13303.0	12583.0	10535.6	9437.8	9358.5	9832.2	11529.0	13119.4	13073.5
30°	13586.9	13699.6	13985.5	12979.5	10809.0	9583.9	9492.0	10015.9	11643.8	13472.1	13927.1
32.5°	14329.9	14519.8	14609.6	13403.2	11201.4	9859.4	9702.8	10368.6	11923.5	13908.3	14822.4
35°	15179.3	15398.5	15283.7	13808.1	11719.0	10289.3	10097.3	10940.5	12347.2	14311.1	15861.8
37.5°	16256.3	16508.8	16060.1	14233.9	12265.8	10936.3	10846.6	11744.0	12990.0	14887.1	16976.3
40°	17370.8	17516.9	16813.5	14751.5	12937.8	11877.6	11963.1	12937.8	13831.1	15578.0	18161.8
42.5°	18241.1	18378.8	17587.8	15185.6	13624.5	12994.2	13351.0	14377.9	14795.3	16285.5	19046.7
45°	18906.9	19023.7	18124.2	15659.4	14551.1	14611.6	15285.8	15861.8	15761.6	16717.5	19729.2
47.5°	19424.5	19524.6	18537.4	16168.6	15939.0	16590.2	17621.2	17865.4	16763.4	17185.0	20346.9
50°	19637.3	19666.6	18666.8	16817.7	17514.8	19111.4	20186.2	20038.1	17911.3	17704.7	21004.4
52.5°	19914.9	19908.7	19036.3	17435.5	18996.6	21365.4	22438.2	22102.2	19209.5	18483.2	21743.2
55°	20643.3	20651.7	19827.3	18312.0	20259.3	23185.4	24333.3	24089.1	20578.6	19798.0	22605.2
57.5°	21528.2	21559.5	20952.2	19336.8	21465.6	24504.4	25748.3	25654.4	22429.8	21261.1	23419.1
59°	21643.0	21705.6	21484.4	20058.9	22181.5	24909.3	26232.5	26324.3	23421.2	22225.3	23859.5
60°	21434.3	21538.7	21638.8	20468.0	22601.0	25055.4	26261.7	26441.2	24166.3	22880.7	24059.9
62.5°	20524.3	20689.2	21192.2	21726.5	23124.8	24600.4	25328.8	25704.5	25088.8	24602.5	24078.6
65°	19332.6	19418.2	20144.5	21949.8	22108.4	22475.8	22701.2	23183.3	23980.5	25266.2	23216.7
67.5°	17379.1	17631.7	18520.7	20653.7	19109.3	18675.2	18618.8	18138.8	20209.2	23684.2	21092.0
70°	14357.0	14469.7	15565.4	16932.5	14421.7	13753.9	14021.0	13841.5	15665.6	20388.7	16976.3
72.5°	10857.0	11111.6	12182.3	13497.1	9813.4	8947.3	9684.1	9617.3	11767.0	16385.7	11662.6
75°	7724.3	7889.2	9254.1	10562.7	6872.8	5823.0	6088.0	6336.4	8214.7	12937.8	6891.5
77.5°	5307.4	5449.4	6474.1	6985.5	5013.2	4802.4	4393.3	4633.3	5382.6	7676.3	3750.5
80°	3201.6	3195.3	3869.4	3994.7	3491.7	4055.2	3401.9	3819.4	3253.8	3285.1	1452.6
82.5°	2078.7	2057.9	2366.7	2579.6	1943.1	2043.3	1371.2	1976.5	2120.5	916.2	459.2
85°	930.8	970.5	1137.5	1500.6	851.5	452.9	279.7	607.3	903.7	461.2	0.0
87.5°	96.0	75.1	200.4	365.2	116.9	12.5	41.7	20.9	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1
2.5°	9934.5	9813.4	9452.4	9114.3	8824.2	8469.4	8239.8	7878.7	7659.6	7592.8	7603.2
5°	9535.9	9187.3	8500.7	7951.8	7340.3	6991.7	6461.6	5952.4	5676.9	5574.6	5528.7
7.5°	8701.0	8327.4	7498.9	6636.9	5981.6	5370.1	4975.6	4526.9	4220.1	3967.5	3923.7
10°	8081.2	7590.7	6563.9	5637.2	5119.6	4660.4	4266.0	3817.3	3456.2	3168.2	3088.9
12.5°	7709.7	7160.8	6015.0	5238.6	4748.1	4276.4	3763.0	3243.3	2873.9	2562.9	2418.9
15°	7642.9	7006.3	5860.5	4952.6	4347.4	3777.6	3095.1	2533.7	2153.9	1859.6	1769.8
17.5°	8045.7	7283.9	5837.6	4654.2	3823.5	3015.8	2306.2	1840.8	1413.0	1248.1	1183.4
20°	8763.6	7774.4	5835.5	4307.7	3285.1	2322.9	1619.6	1200.1	1026.8	947.5	910.0
22.5°	9742.5	8442.2	5946.1	4009.3	2725.7	1713.5	1156.2	955.9	855.7	791.0	776.4
25°	10938.4	9431.5	6217.4	3806.8	2297.9	1344.1	953.8	818.1	734.7	705.4	692.9
27.5°	12000.7	10379.0	6515.9	3598.1	1991.1	1189.6	884.9	749.3	682.5	659.5	640.7
30°	12916.9	11238.9	6659.9	3322.6	1744.8	1089.5	897.4	801.4	713.8	644.9	613.6
32.5°	13680.8	11898.4	6753.8	3072.2	1536.1	891.2	709.6	619.9	580.2	555.2	534.3
35°	14636.7	12612.2	6697.4	2930.3	1429.6	811.9	647.0	534.3	467.5	417.4	396.5
37.5°	15638.5	13326.0	6599.3	2813.4	1381.6	753.4	615.7	507.2	434.1	381.9	354.8
40°	16675.8	13987.6	6484.6	2704.9	1337.8	715.9	596.9	484.2	411.2	354.8	325.6
42.5°	17625.4	14632.5	6438.6	2633.9	1266.9	722.1	582.3	473.8	388.2	329.8	304.7
45°	18393.4	15244.0	6501.3	2596.3	1189.6	711.7	586.5	461.2	369.4	313.1	288.0
47.5°	19213.7	16108.1	6703.7	2558.8	1114.5	661.6	617.8	459.2	361.1	302.6	275.5
50°	20167.5	17214.2	7167.0	2466.9	1022.7	607.3	657.4	457.1	350.6	290.1	263.0
52.5°	21438.5	18470.7	7645.0	2306.2	889.1	555.2	628.2	450.8	329.8	275.5	248.4
55°	22580.1	19793.9	8049.9	2116.3	720.0	480.0	565.6	423.7	294.3	250.4	225.4
57.5°	23051.8	20541.0	8037.3	1853.3	576.0	421.6	465.4	388.2	256.7	221.2	200.4
59°	22878.6	20447.1	7768.1	1659.2	525.9	390.3	386.1	384.0	240.0	200.4	183.7
60°	22634.4	20104.8	7478.0	1563.2	494.6	369.4	354.8	379.8	225.4	187.8	171.1
62.5°	21699.4	18685.6	6515.9	1400.4	452.9	313.1	283.8	321.4	200.4	162.8	148.2
65°	20344.9	16504.6	5516.2	1354.5	440.4	258.8	235.8	229.6	171.1	137.7	125.2
67.5°	17702.6	13966.7	4468.4	1323.2	444.5	217.1	206.6	173.2	141.9	114.8	106.4
70°	14173.4	10890.4	3658.7	1287.7	448.7	177.4	173.2	137.7	114.8	96.0	87.7
72.5°	8611.3	6455.3	2880.2	1118.7	436.2	141.9	154.4	104.4	83.5	68.9	64.7
75°	5324.1	4418.3	1786.5	870.3	288.0	104.4	108.5	64.7	56.4	43.8	43.8
77.5°	3084.7	2790.4	638.6	313.1	127.3	62.6	48.0	33.4	31.3	18.8	18.8
80°	1279.4	1024.8	221.2	106.4	68.9	29.2	10.4	2.1	0.0	0.0	0.0
82.5°	373.6	331.8	60.5	48.0	20.9	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°	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1
2.5°	7425.8	7357.0	7325.7	7432.1	7334.0	7459.2	7363.2	7405.0	7528.1	7582.4	7722.2
5°	5557.9	5486.9	5453.5	5614.2	5605.9	5685.2	5676.9	5749.9	5812.5	5672.7	5816.7
7.5°	3871.5	3823.5	3902.8	4028.1	4161.6	4117.8	4117.8	4019.7	4053.1	4032.2	4026.0
10°	2944.9	2780.0	2738.2	2734.1	2784.2	2794.6	2738.2	2602.6	2652.7	2667.3	2754.9
12.5°	2316.7	2189.3	1995.2	1907.6	1884.6	1903.4	1717.7	1598.7	1655.1	1621.7	1707.2
15°	1661.3	1557.0	1442.2	1344.1	1316.9	1279.4	1076.9	935.0	918.3	924.6	939.2
17.5°	1185.5	1114.5	1114.5	1010.1	953.8	841.1	738.8	676.2	670.0	676.2	686.6
20°	874.5	836.9	832.7	805.6	743.0	667.9	596.9	584.4	580.2	590.6	594.8
22.5°	753.4	713.8	680.4	678.3	619.9	557.3	523.9	507.2	509.2	513.4	523.9
25°	674.1	632.4	596.9	576.0	534.3	490.5	459.2	450.8	450.8	457.1	459.2
27.5°	617.8	565.6	534.3	505.1	467.5	429.9	402.8	396.5	392.4	396.5	407.0
30°	578.1	525.9	486.3	442.5	413.2	377.8	354.8	346.5	344.4	346.5	354.8
32.5°	494.6	463.3	432.0	392.4	356.9	333.9	308.9	294.3	294.3	298.5	306.8
35°	373.6	356.9	354.8	344.4	315.1	290.1	260.9	246.3	246.3	254.6	258.8
37.5°	329.8	298.5	294.3	290.1	277.6	244.2	217.1	204.5	202.4	208.7	217.1
40°	300.5	265.1	246.3	242.1	244.2	206.6	177.4	164.9	164.9	167.0	175.3
42.5°	277.6	235.8	202.4	198.3	206.6	173.2	144.0	131.5	131.5	131.5	141.9
45°	258.8	210.8	171.1	150.3	162.8	141.9	116.9	104.4	100.2	104.4	108.5
47.5°	246.3	192.0	150.3	121.1	121.1	112.7	93.9	79.3	75.1	77.2	83.5
50°	235.8	175.3	127.3	98.1	87.7	89.7	71.0	60.5	56.4	56.4	62.6
52.5°	219.1	158.6	110.6	83.5	66.8	60.5	52.2	43.8	41.7	43.8	48.0
55°	198.3	144.0	96.0	68.9	52.2	41.7	37.6	31.3	29.2	31.3	37.6
57.5°	175.3	121.1	77.2	54.3	35.5	27.1	25.0	20.9	16.7	18.8	23.0
59°	160.7	108.5	66.8	43.8	27.1	18.8	18.8	14.6	10.4	12.5	18.8
60°	154.4	100.2	56.4	37.6	23.0	14.6	14.6	10.4	6.3	8.3	14.6
62.5°	131.5	83.5	43.8	23.0	10.4	2.1	6.3	2.1	0.0	2.1	6.3
65°	110.6	66.8	29.2	10.4	0.0	0.0	0.0	0.0	0.0	0.0	2.1
67.5°	91.8	50.1	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	73.0	33.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	50.1	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	31.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P457655

CATALOG NUMBER: GALN-SA9A-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1	9181.1
2.5°	7730.5	8029.0	8212.7	8559.1	8913.9	9187.3	9529.6	9836.4	9963.7	10030.5
5°	5962.8	6378.1	6730.8	7258.9	7749.3	8346.2	8951.5	9665.3	9938.7	10009.6
7.5°	4184.6	4608.3	4977.7	5589.2	6288.4	7087.7	7993.5	8899.3	9297.9	9410.6
10°	3022.1	3475.0	3925.8	4537.3	5190.6	6056.7	7000.1	8120.8	8580.0	8667.6
12.5°	1907.6	2393.9	3126.4	3882.0	4572.8	5269.9	6257.1	7475.9	7983.1	8143.8
15°	1106.2	1469.3	2022.4	3007.5	3886.1	4808.6	5885.6	7233.8	7801.5	7966.4
17.5°	740.9	866.1	1246.0	1999.4	3159.8	4382.9	5791.6	7432.1	8060.3	8271.1
20°	624.0	680.4	814.0	1218.9	2433.5	4003.0	5816.7	7970.6	8795.0	9057.9
22.5°	548.9	601.1	686.6	876.6	1698.9	3531.3	5935.7	8740.7	9805.1	10141.1
25°	484.2	536.4	611.5	726.3	1141.6	2986.6	6196.5	9867.7	11142.9	11512.3
27.5°	429.9	477.9	542.6	640.7	878.7	2379.3	6428.2	10965.5	12363.9	12664.4
30°	379.8	419.5	482.1	557.3	730.5	1834.5	6545.1	11925.6	13253.0	13586.9
32.5°	329.8	367.3	427.9	488.4	601.1	1398.3	6463.7	12631.0	14117.0	14329.9
35°	281.8	321.4	371.5	427.9	519.7	1129.1	6056.7	13424.1	15012.4	15179.3
37.5°	242.1	275.5	327.7	371.5	469.6	903.7	5564.2	14137.9	16016.3	16256.3
40°	204.5	237.9	290.1	329.8	432.0	711.7	5119.6	14931.0	17074.4	17370.8
42.5°	167.0	206.6	252.5	317.2	371.5	542.6	4581.1	15573.8	17869.6	18241.1
45°	133.6	177.4	227.5	315.1	323.5	413.2	4061.5	16074.7	18572.9	18906.9
47.5°	106.4	150.3	219.1	294.3	265.1	327.7	3765.1	16598.5	19157.3	19424.5
50°	85.6	125.2	229.6	258.8	221.2	277.6	3756.7	17182.9	19459.9	19637.3
52.5°	68.9	102.3	194.1	198.3	187.8	244.2	3982.1	17840.4	19768.8	19914.9
55°	58.4	85.6	127.3	146.1	169.1	221.2	4151.2	18852.6	20505.6	20643.3
57.5°	45.9	73.0	98.1	116.9	150.3	202.4	4174.2	19633.2	21438.5	21528.2
59°	39.7	62.6	87.7	104.4	137.7	189.9	4080.2	19681.2	21499.0	21643.0
60°	33.4	56.4	77.2	98.1	127.3	179.5	3978.0	19332.6	21273.6	21434.3
62.5°	25.0	43.8	56.4	79.3	104.4	154.4	3493.8	18115.9	20411.6	20524.3
65°	16.7	31.3	41.7	58.4	81.4	133.6	2846.8	16538.0	19080.1	19332.6
67.5°	10.4	23.0	33.4	43.8	66.8	112.7	2028.6	14181.7	17216.3	17379.1
70°	6.3	14.6	25.0	35.5	52.2	89.7	1204.2	11209.7	14323.6	14357.0
72.5°	4.2	10.4	16.7	25.0	41.7	81.4	584.4	7306.9	10458.4	10857.0
75°	2.1	6.3	10.4	18.8	33.4	66.8	279.7	4881.7	7609.5	7724.3
77.5°	0.0	2.1	6.3	12.5	25.0	52.2	162.8	3205.8	5188.5	5307.4
80°	0.0	0.0	4.2	10.4	18.8	33.4	98.1	1890.9	3143.1	3201.6
82.5°	0.0	0.0	2.1	8.3	12.5	25.0	50.1	830.7	2057.9	2078.7
85°	0.0	0.0	2.1	8.3	10.4	16.7	18.8	112.7	914.1	930.8
87.5°	0.0	0.0	2.1	10.4	10.4	10.4	10.4	6.3	77.2	96.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)