

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: P458119

Luminaire Tested: **GALN-SA9C-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458119
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-SA9C-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA 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: 41685 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

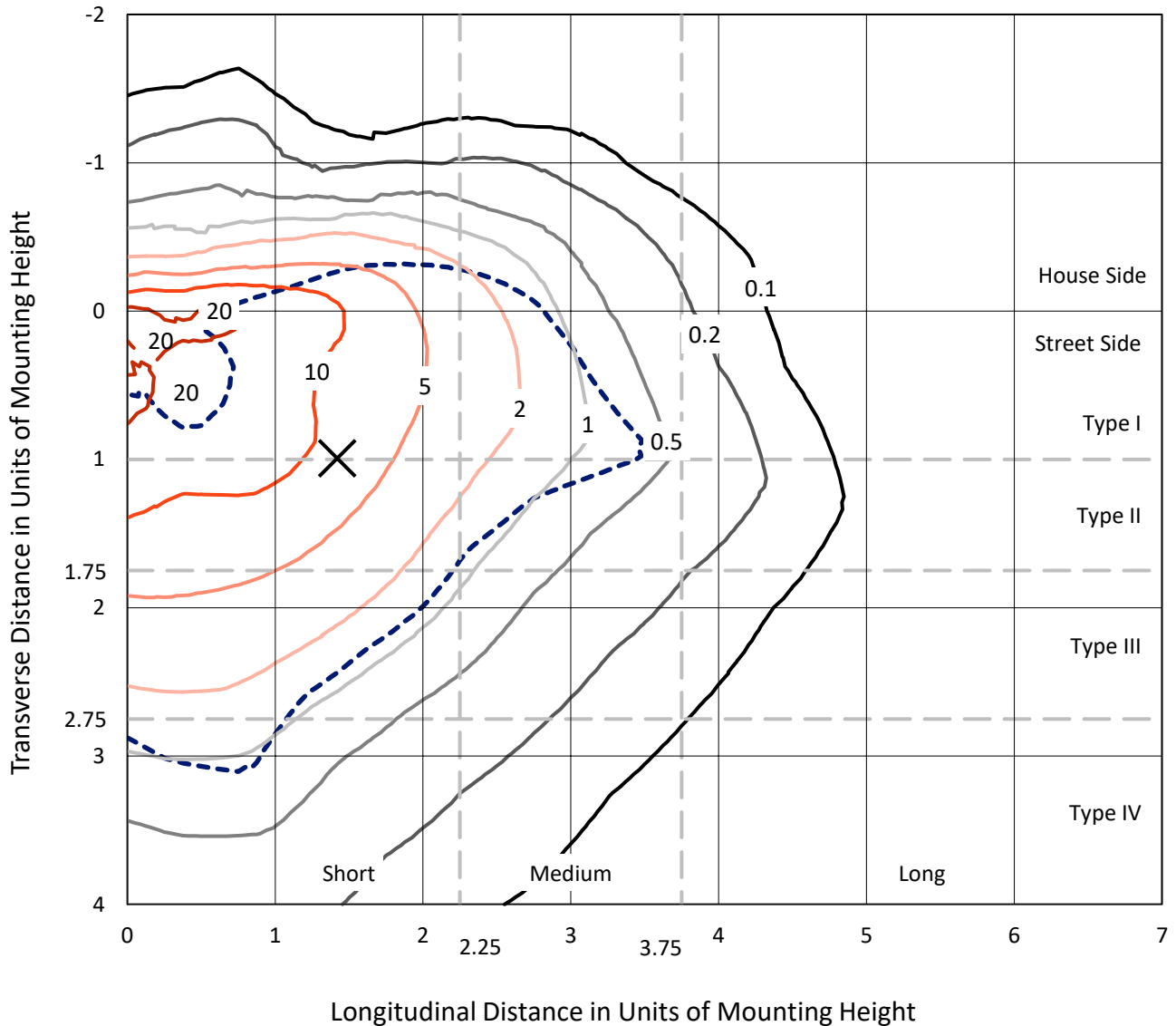
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

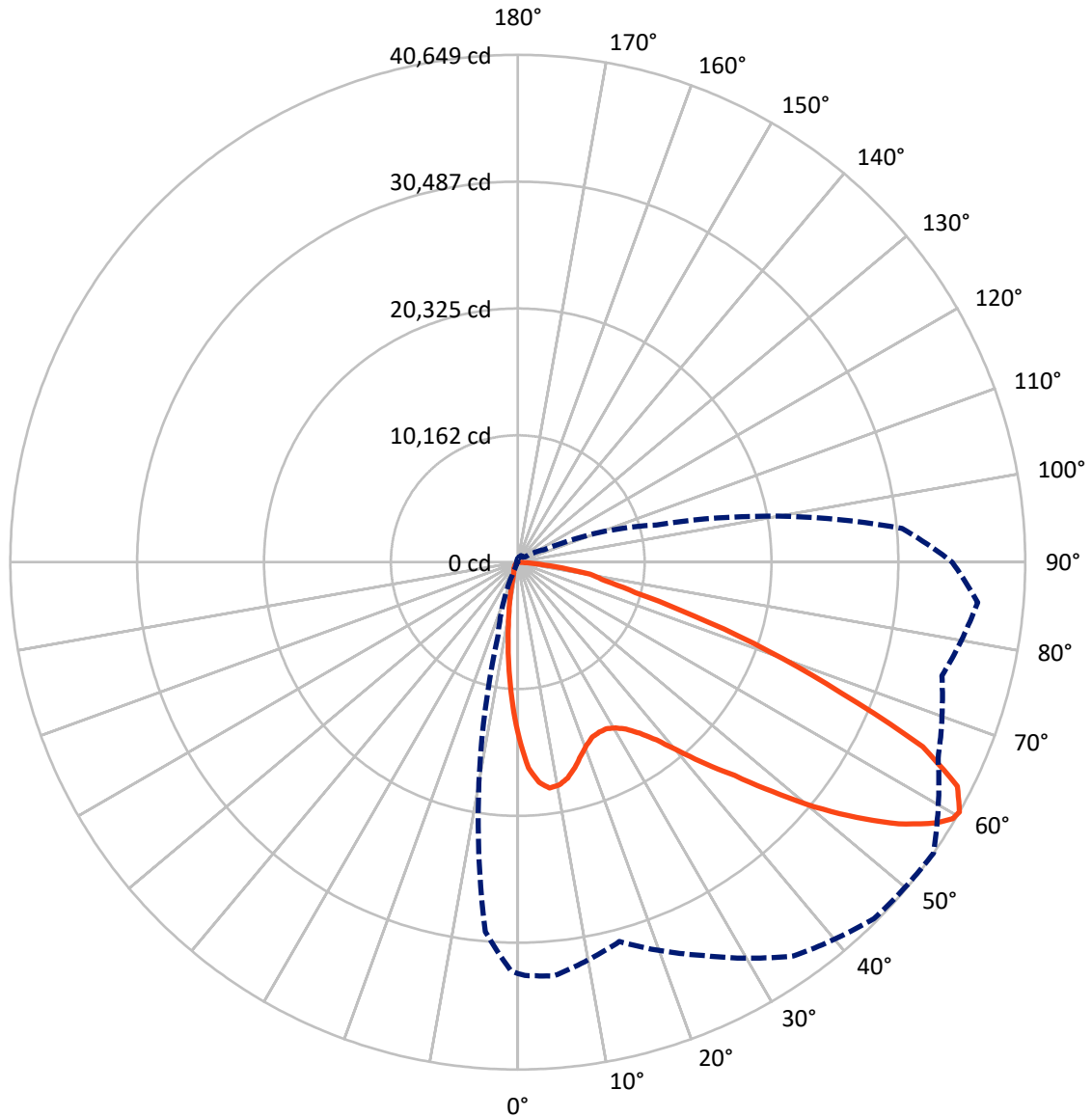
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.2 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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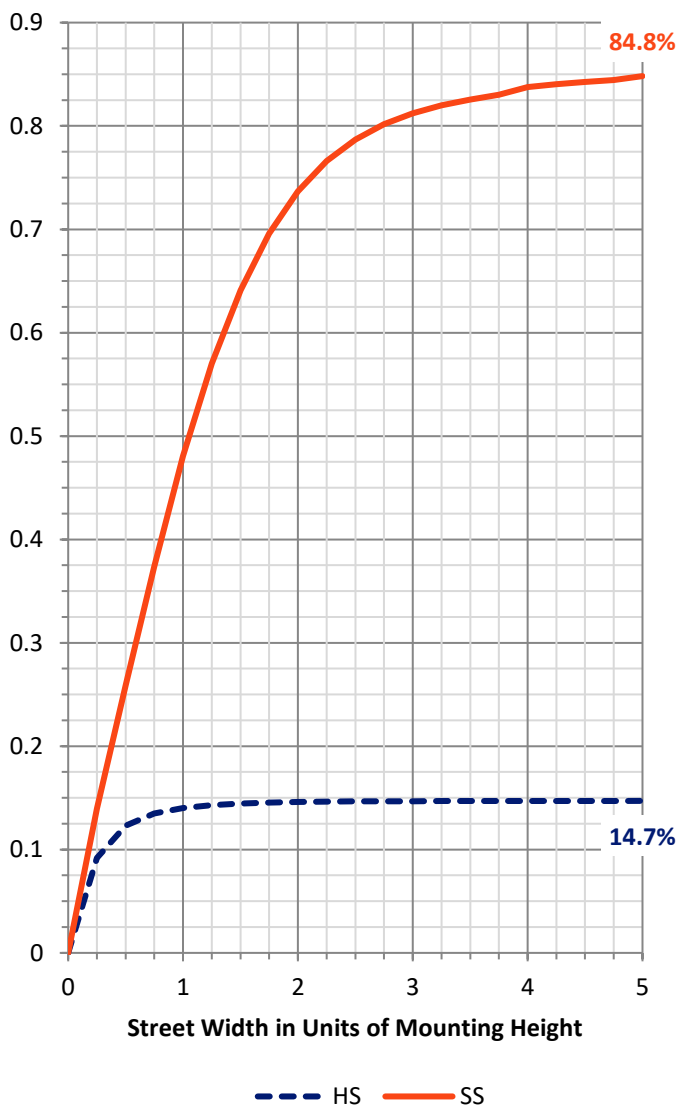
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6186.4	0.0	6186.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	35498.6	0.0	35498.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	41685.0	0.0	41685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1045.2	2.5
10°-20°	2058.2	4.9
20°-30°	3046.6	7.3
30°-40°	4541.2	10.9
40°-50°	6650.6	16.0
50°-60°	9601.4	23.0
60°-70°	10100.2	24.2
70°-80°	4154.9	10.0
80°-90°	486.6	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°	41685.0	100.0
0°-180°	41685.0	100.0

Coefficient of Utilization



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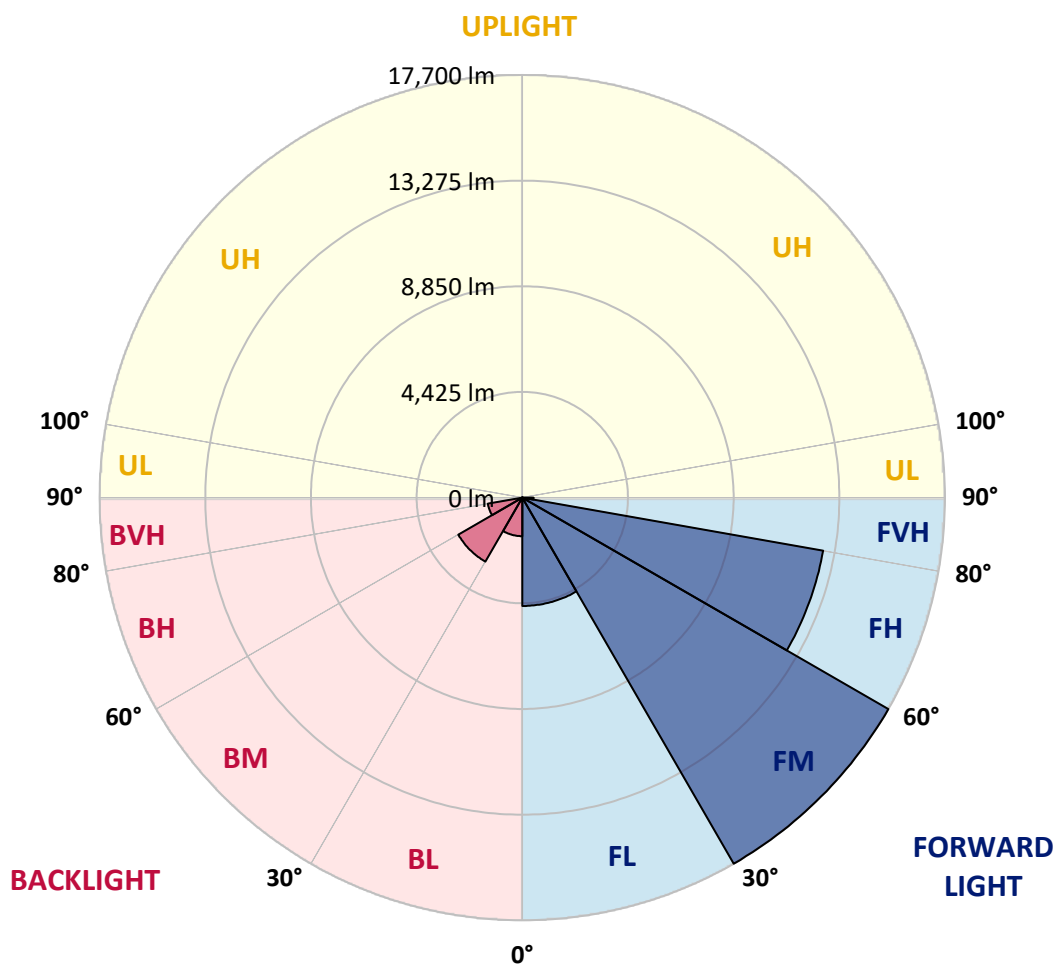
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4535.9	10.9			
FM (30°-60°)	17699.5	42.5			
FH (60°-80°)	12790.8	30.7			G5
FVH (80°-90°)	472.3	1.1			G3/500
BL (0°-30°)	1614.1	3.9	B3/2500		
BM (30°-60°)	3093.8	7.4	B3/5000		
BH (60°-80°)	1464.3	3.5	B3/2500		G3/2500
BVH (80°-90°)	14.3	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4
2.5°	15420.3	15394.6	15622.4	15994.6	16370.0	16565.8	16527.3	16511.2	16200.0	15972.2	15494.1
5°	15388.2	15519.8	15927.3	16934.7	17698.4	18067.4	18176.5	17717.6	17111.2	16232.1	15147.6
7.5°	14467.4	14631.0	15295.2	16870.6	18227.8	19029.9	19001.1	18266.3	17015.0	15654.5	14108.0
10°	13325.1	13517.6	14297.3	16209.6	17971.1	19029.9	19087.7	18157.2	16601.1	14855.6	13228.9
12.5°	12519.8	12747.6	13610.7	15593.6	17310.1	18352.9	18420.3	17746.5	16289.8	14547.6	12750.8
15°	12247.0	12462.0	13338.0	15282.3	16607.5	17169.0	17152.9	17082.3	16167.9	14621.4	12776.5
17.5°	12715.5	12892.0	13880.2	15423.5	15949.7	15892.0	15975.4	16315.5	16193.6	15240.6	13585.0
20°	13925.1	14104.8	15166.8	15856.7	15446.0	15080.2	15118.7	15686.6	16431.0	16405.3	14849.2
22.5°	15590.4	15895.2	16857.7	16697.3	15378.6	14576.5	14496.2	15234.2	16835.3	17746.5	16556.1
25°	17698.4	18006.4	18757.2	18038.5	15709.1	14457.7	14383.9	15096.2	17326.2	19055.6	18478.1
27.5°	19469.5	19703.7	20451.3	19344.4	16196.8	14509.1	14387.2	15115.5	17724.0	20169.0	20098.4
30°	20887.7	21060.9	21500.5	19954.0	16617.1	14733.7	14592.5	15397.8	17900.5	20711.2	21410.7
32.5°	22029.9	22321.9	22459.9	20605.3	17220.3	15157.2	14916.6	15940.1	18330.5	21381.8	22787.1
35°	23335.8	23672.7	23496.2	21227.8	18016.0	15818.2	15523.0	16819.2	18981.8	22001.0	24385.0
37.5°	24991.4	25379.7	24689.8	21882.3	18856.7	16812.8	16674.9	18054.5	19970.0	22886.6	26098.4
40°	26704.8	26929.4	25848.1	22678.1	19889.8	18259.9	18391.4	19889.8	21263.1	23948.6	27920.8
42.5°	28042.8	28254.5	27038.5	23345.4	20945.4	19976.5	20525.1	22103.7	22745.4	25036.3	29281.3
45°	29066.3	29246.0	27863.1	24073.8	22370.0	22463.1	23499.4	24385.0	24231.0	25700.5	30330.5
47.5°	29862.0	30016.0	28498.4	24856.7	24503.7	25504.8	27089.8	27465.2	25771.1	26419.2	31280.2
50°	30189.3	30234.2	28697.3	25854.5	26926.2	29380.7	31033.1	30805.3	27535.8	27218.2	32290.9
52.5°	30616.0	30606.4	29265.2	26804.3	29204.3	32846.0	34495.2	33978.6	29531.5	28414.9	33426.7
55°	31735.8	31748.6	30481.3	28151.8	31145.4	35643.8	37408.5	37033.1	31636.3	30436.3	34751.8
57.5°	33096.2	33144.4	32210.7	29727.2	33000.0	37671.6	39583.9	39439.5	34482.3	32685.5	36003.2
59°	33272.7	33369.0	33028.8	30837.4	34100.5	38294.1	40328.3	40469.5	36006.4	34167.9	36680.2
60°	32951.8	33112.3	33266.3	31466.3	34745.4	38518.7	40373.2	40649.2	37151.8	35175.4	36988.2
62.5°	31552.9	31806.4	32579.6	33401.0	35550.8	37819.2	38939.0	39516.5	38570.0	37822.4	37017.1
65°	29720.8	29852.4	30969.0	33744.4	33988.2	34552.9	34899.4	35640.6	36866.3	38842.7	35691.9
67.5°	26717.6	27105.9	28472.7	31751.8	29377.5	28710.1	28623.5	27885.5	31068.4	36410.7	32425.6
70°	22071.6	22244.9	23929.4	26031.0	22171.1	21144.4	21555.1	21279.1	24083.4	31344.4	26098.4
72.5°	16690.9	17082.3	18728.3	20749.7	15086.6	13755.1	14887.7	14785.0	18089.8	25190.4	17929.4
75°	11874.9	12128.3	14226.7	16238.5	10565.8	8951.9	9359.3	9741.2	12628.9	19889.8	10594.6
77.5°	8159.4	8377.5	9952.9	10739.0	7706.9	7382.9	6754.0	7123.0	8274.9	11801.1	5765.8
80°	4921.9	4912.3	5948.7	6141.2	5367.9	6234.2	5229.9	5871.7	5002.1	5050.3	2233.2
82.5°	3195.7	3163.6	3638.5	3965.8	2987.2	3141.2	2108.0	3038.5	3259.9	1408.6	705.9
85°	1431.0	1492.0	1748.7	2306.9	1309.1	696.3	429.9	933.7	1389.3	709.1	0.0
87.5°	147.6	115.5	308.0	561.5	179.7	19.3	64.2	32.1	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°	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4
2.5°	15272.7	15086.6	14531.5	14011.8	13565.8	13020.3	12667.4	12112.3	11775.4	11672.7	11688.8
5°	14659.9	14124.1	13068.4	12224.6	11284.5	10748.7	9933.7	9150.8	8727.3	8570.0	8499.5
7.5°	13376.5	12802.1	11528.3	10203.2	9195.7	8255.6	7649.2	6959.4	6487.7	6099.5	6032.1
10°	12423.5	11669.5	10090.9	8666.3	7870.6	7164.7	6558.3	5868.4	5313.4	4870.6	4748.7
12.5°	11852.4	11008.5	9247.1	8053.5	7299.5	6574.3	5785.0	4986.1	4418.2	3940.1	3718.7
15°	11749.7	10771.1	9009.6	7613.9	6683.4	5807.5	4758.3	3895.2	3311.2	2858.8	2720.9
17.5°	12369.0	11197.9	8974.3	7155.1	5878.1	4636.4	3545.5	2829.9	2172.2	1918.7	1819.2
20°	13472.7	11951.9	8971.1	6622.5	5050.3	3571.1	2489.8	1844.9	1578.6	1456.7	1398.9
22.5°	14977.5	12978.6	9141.2	6163.6	4190.4	2634.2	1777.5	1469.5	1315.5	1216.0	1193.6
25°	16816.0	14499.5	9558.3	5852.4	3532.6	2066.3	1466.3	1257.8	1129.4	1084.5	1065.2
27.5°	18449.2	15956.1	10017.1	5531.5	3061.0	1828.9	1360.4	1151.9	1049.2	1013.9	985.0
30°	19857.7	17278.1	10238.5	5108.0	2682.4	1674.9	1379.7	1232.1	1097.3	991.4	943.3
32.5°	21032.1	18292.0	10382.9	4723.0	2361.5	1370.1	1090.9	952.9	892.0	853.5	821.4
35°	22501.6	19389.3	10296.2	4504.8	2197.9	1248.1	994.7	821.4	718.7	641.7	609.6
37.5°	24041.7	20486.6	10145.4	4325.1	2124.1	1158.3	946.5	779.7	667.4	587.2	545.5
40°	25636.3	21503.7	9969.0	4158.3	2056.7	1100.5	917.6	744.4	632.1	545.5	500.5
42.5°	27096.2	22495.2	9898.4	4049.2	1947.6	1110.2	895.2	728.3	596.8	507.0	468.4
45°	28277.0	23435.3	9994.6	3991.4	1828.9	1094.1	901.6	709.1	567.9	481.3	442.8
47.5°	29537.9	24763.6	10305.9	3933.7	1713.4	1017.1	949.7	705.9	555.1	465.2	423.5
50°	31004.2	26464.1	11018.2	3792.5	1572.2	933.7	1010.7	702.7	539.0	446.0	404.3
52.5°	32958.3	28395.7	11752.9	3545.5	1366.8	853.5	965.8	693.0	507.0	423.5	381.8
55°	34713.3	30429.9	12375.4	3253.5	1107.0	738.0	869.5	651.3	452.4	385.0	346.5
57.5°	35438.5	31578.6	12356.1	2849.2	885.6	648.1	715.5	596.8	394.7	340.1	308.0
59°	35172.2	31434.2	11942.2	2550.8	808.6	600.0	593.6	590.4	369.0	308.0	282.4
60°	34796.8	30908.0	11496.2	2403.2	760.4	567.9	545.5	584.0	346.5	288.8	263.1
62.5°	33359.3	28726.2	10017.1	2152.9	696.3	481.3	436.4	494.1	308.0	250.3	227.8
65°	31277.0	25373.2	8480.2	2082.4	677.0	397.9	362.6	352.9	263.1	211.8	192.5
67.5°	27214.9	21471.6	6869.5	2034.2	683.4	333.7	317.6	266.3	218.2	176.5	163.6
70°	21789.3	16742.2	5624.6	1979.7	689.8	272.7	266.3	211.8	176.5	147.6	134.8
72.5°	13238.5	9924.1	4427.8	1719.8	670.6	218.2	237.4	160.4	128.3	105.9	99.5
75°	8185.0	6792.5	2746.5	1338.0	442.8	160.4	166.8	99.5	86.6	67.4	67.4
77.5°	4742.2	4289.8	981.8	481.3	195.7	96.3	73.8	51.3	48.1	28.9	28.9
80°	1966.8	1575.4	340.1	163.6	105.9	44.9	16.0	3.2	0.0	0.0	0.0
82.5°	574.3	510.2	93.0	73.8	32.1	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°	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4
2.5°	11416.0	11310.2	11262.0	11425.7	11274.9	11467.4	11319.8	11383.9	11573.3	11656.7	11871.6
5°	8544.4	8435.3	8383.9	8631.0	8618.2	8740.1	8727.3	8839.6	8935.8	8720.8	8942.2
7.5°	5951.9	5878.1	6000.0	6192.5	6397.9	6330.5	6330.5	6179.7	6231.0	6198.9	6189.3
10°	4527.3	4273.8	4209.6	4203.2	4280.2	4296.3	4209.6	4001.1	4078.1	4100.5	4235.3
12.5°	3561.5	3365.8	3067.4	2932.6	2897.3	2926.2	2640.6	2457.8	2544.4	2493.0	2624.6
15°	2554.0	2393.6	2217.1	2066.3	2024.6	1966.8	1655.6	1437.4	1411.8	1421.4	1443.8
17.5°	1822.5	1713.4	1713.4	1552.9	1466.3	1293.0	1135.8	1039.6	1029.9	1039.6	1055.6
20°	1344.4	1286.6	1280.2	1238.5	1142.2	1026.7	917.6	898.4	892.0	908.0	914.4
22.5°	1158.3	1097.3	1046.0	1042.8	952.9	856.7	805.3	779.7	782.9	789.3	805.3
25°	1036.4	972.2	917.6	885.6	821.4	754.0	705.9	693.0	693.0	702.7	705.9
27.5°	949.7	869.5	821.4	776.5	718.7	661.0	619.3	609.6	603.2	609.6	625.7
30°	888.8	808.6	747.6	680.2	635.3	580.7	545.5	532.6	529.4	532.6	545.5
32.5°	760.4	712.3	664.2	603.2	548.7	513.4	474.9	452.4	452.4	458.8	471.7
35°	574.3	548.7	545.5	529.4	484.5	446.0	401.1	378.6	378.6	391.4	397.9
37.5°	507.0	458.8	452.4	446.0	426.7	375.4	333.7	314.4	311.2	320.9	333.7
40°	462.0	407.5	378.6	372.2	375.4	317.6	272.7	253.5	253.5	256.7	269.5
42.5°	426.7	362.6	311.2	304.8	317.6	266.3	221.4	202.1	202.1	202.1	218.2
45°	397.9	324.1	263.1	231.0	250.3	218.2	179.7	160.4	154.0	160.4	166.8
47.5°	378.6	295.2	231.0	186.1	186.1	173.3	144.4	121.9	115.5	118.7	128.3
50°	362.6	269.5	195.7	150.8	134.8	138.0	109.1	93.0	86.6	86.6	96.3
52.5°	336.9	243.9	170.1	128.3	102.7	93.0	80.2	67.4	64.2	67.4	73.8
55°	304.8	221.4	147.6	105.9	80.2	64.2	57.8	48.1	44.9	48.1	57.8
57.5°	269.5	186.1	118.7	83.4	54.5	41.7	38.5	32.1	25.7	28.9	35.3
59°	247.1	166.8	102.7	67.4	41.7	28.9	28.9	22.5	16.0	19.3	28.9
60°	237.4	154.0	86.6	57.8	35.3	22.5	22.5	16.0	9.6	12.8	22.5
62.5°	202.1	128.3	67.4	35.3	16.0	3.2	9.6	3.2	0.0	3.2	9.6
65°	170.1	102.7	44.9	16.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
67.5°	141.2	77.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	112.3	51.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	77.0	28.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	48.1	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.3	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: P458119

CATALOG NUMBER: GALN-SA9C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4	14114.4
2.5°	11884.5	12343.3	12625.7	13158.3	13703.7	14124.1	14650.3	15121.9	15317.6	15420.3
5°	9166.8	9805.3	10347.6	11159.3	11913.4	12831.0	13761.5	14858.8	15279.1	15388.2
7.5°	6433.1	7084.5	7652.4	8592.5	9667.4	10896.2	12288.8	13681.3	14294.1	14467.4
10°	4646.0	5342.2	6035.3	6975.4	7979.7	9311.2	10761.5	12484.5	13190.4	13325.1
12.5°	2932.6	3680.2	4806.4	5967.9	7029.9	8101.6	9619.2	11493.0	12272.7	12519.8
15°	1700.5	2258.8	3109.1	4623.5	5974.3	7392.5	9048.1	11120.8	11993.6	12247.0
17.5°	1139.0	1331.5	1915.5	3073.8	4857.7	6738.0	8903.7	11425.7	12391.4	12715.5
20°	959.4	1046.0	1251.3	1873.8	3741.2	6154.0	8942.2	12253.5	13520.8	13925.1
22.5°	843.8	924.1	1055.6	1347.6	2611.8	5428.9	9125.1	13437.4	15073.8	15590.4
25°	744.4	824.6	940.1	1116.6	1755.1	4591.4	9526.2	15170.0	17130.5	17698.4
27.5°	661.0	734.8	834.2	985.0	1350.8	3657.8	9882.3	16857.7	19007.5	19469.5
30°	584.0	644.9	741.2	856.7	1123.0	2820.3	10062.0	18333.7	20374.3	20887.7
32.5°	507.0	564.7	657.8	750.8	924.1	2149.7	9936.9	19418.2	21702.7	22029.9
35°	433.2	494.1	571.1	657.8	798.9	1735.8	9311.2	20637.4	23079.1	23335.8
37.5°	372.2	423.5	503.7	571.1	721.9	1389.3	8554.0	21734.7	24622.4	24991.4
40°	314.4	365.8	446.0	507.0	664.2	1094.1	7870.6	22954.0	26249.2	26704.8
42.5°	256.7	317.6	388.2	487.7	571.1	834.2	7042.8	23942.2	27471.6	28042.8
45°	205.3	272.7	349.7	484.5	497.3	635.3	6243.8	24712.3	28552.9	29066.3
47.5°	163.6	231.0	336.9	452.4	407.5	503.7	5788.2	25517.6	29451.3	29862.0
50°	131.6	192.5	352.9	397.9	340.1	426.7	5775.4	26416.0	29916.6	30189.3
52.5°	105.9	157.2	298.4	304.8	288.8	375.4	6121.9	27426.7	30391.4	30616.0
55°	89.8	131.6	195.7	224.6	259.9	340.1	6381.8	28982.9	31524.0	31735.8
57.5°	70.6	112.3	150.8	179.7	231.0	311.2	6417.1	30182.9	32958.3	33096.2
59°	61.0	96.3	134.8	160.4	211.8	292.0	6272.7	30256.7	33051.3	33272.7
60°	51.3	86.6	118.7	150.8	195.7	275.9	6115.5	29720.8	32704.8	32951.8
62.5°	38.5	67.4	86.6	121.9	160.4	237.4	5371.1	27850.2	31379.7	31552.9
65°	25.7	48.1	64.2	89.8	125.1	205.3	4376.5	25424.6	29332.6	29720.8
67.5°	16.0	35.3	51.3	67.4	102.7	173.3	3118.7	21802.1	26467.4	26717.6
70°	9.6	22.5	38.5	54.5	80.2	138.0	1851.3	17233.1	22020.3	22071.6
72.5°	6.4	16.0	25.7	38.5	64.2	125.1	898.4	11233.1	16078.1	16690.9
75°	3.2	9.6	16.0	28.9	51.3	102.7	429.9	7504.8	11698.4	11874.9
77.5°	0.0	3.2	9.6	19.3	38.5	80.2	250.3	4928.3	7976.5	8159.4
80°	0.0	0.0	6.4	16.0	28.9	51.3	150.8	2906.9	4832.1	4921.9
82.5°	0.0	0.0	3.2	12.8	19.3	38.5	77.0	1277.0	3163.6	3195.7
85°	0.0	0.0	3.2	12.8	16.0	25.7	28.9	173.3	1405.3	1431.0
87.5°	0.0	0.0	3.2	16.0	16.0	16.0	16.0	9.6	118.7	147.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)