

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: P458090

Luminaire Tested: **GALN-SA9C-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458090
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-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 38279 lumens
Efficiency: N/A
Efficacy: 79.6 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

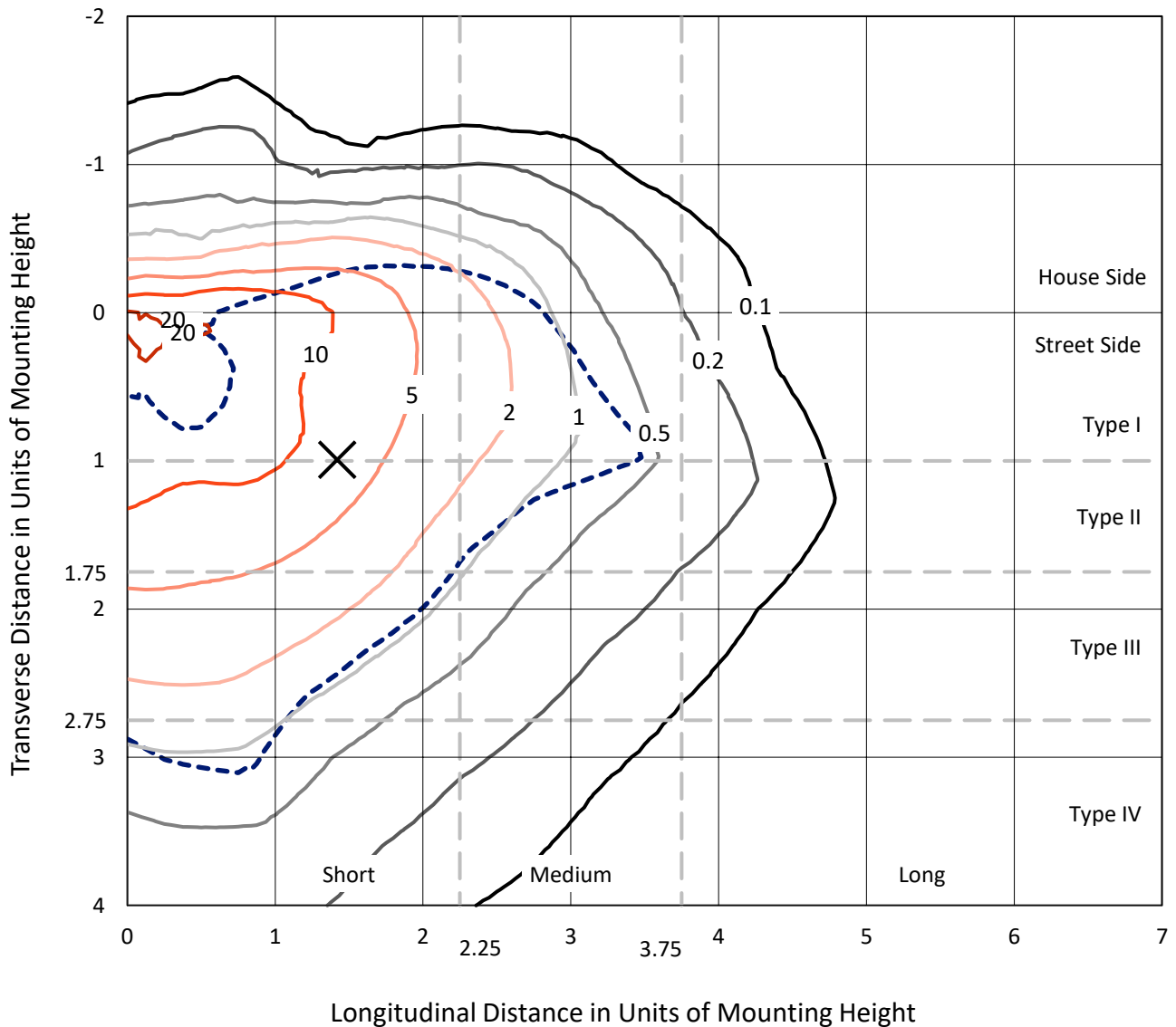
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

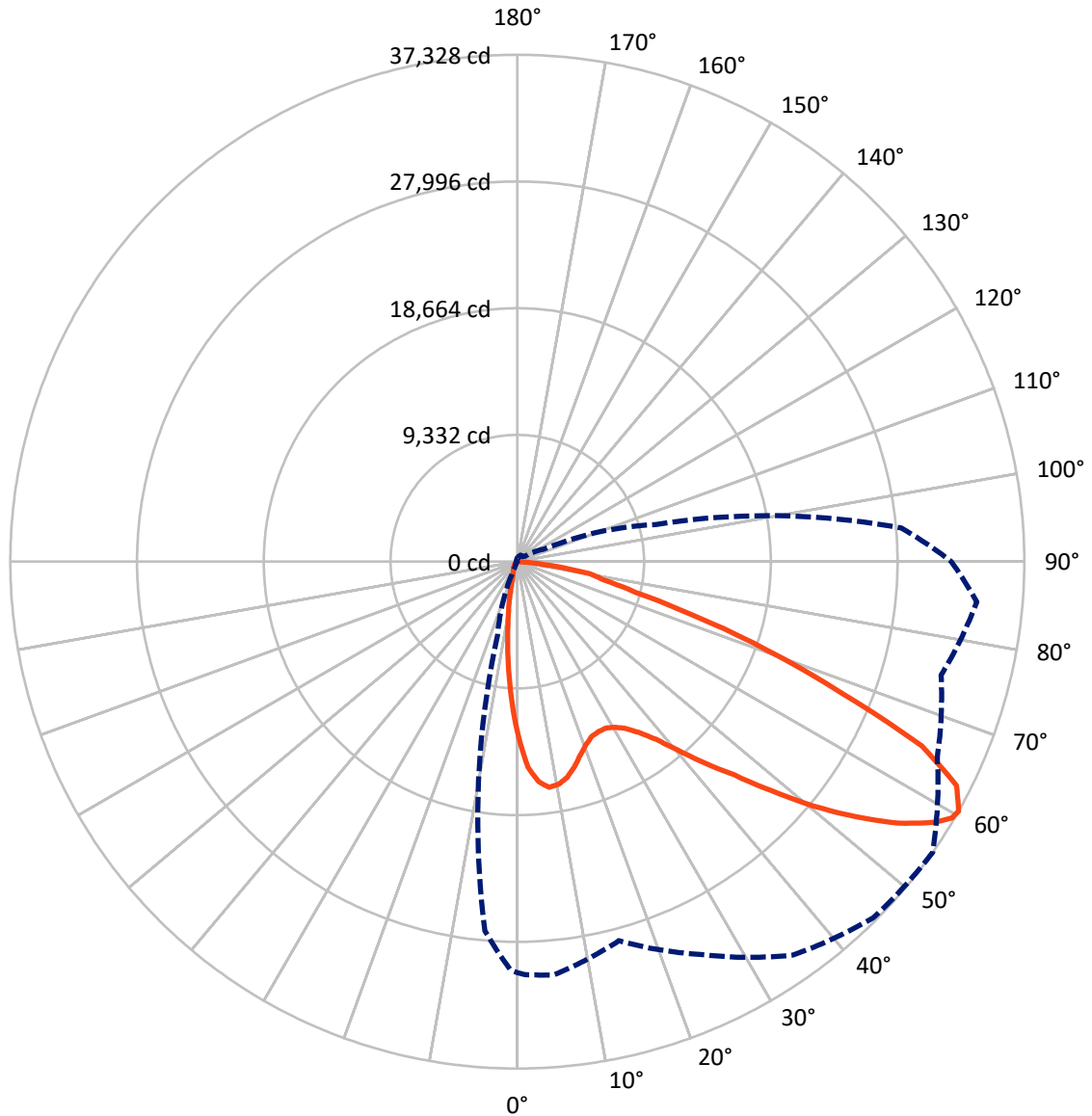
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.8 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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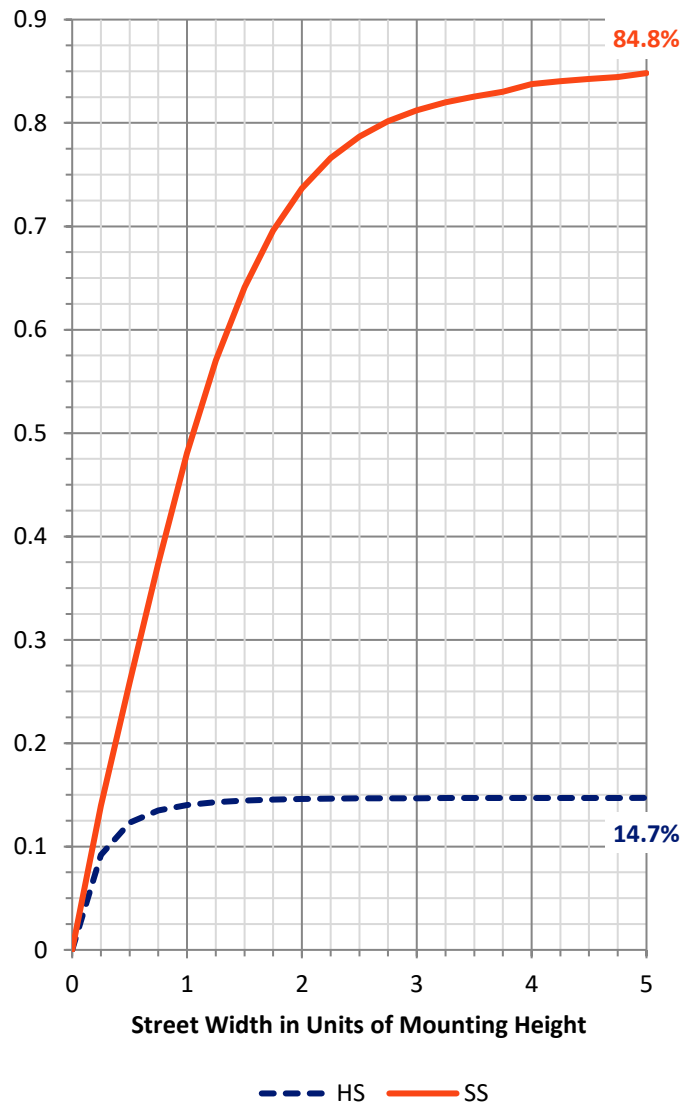
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5680.9	0.0	5680.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	32598.1	0.0	32598.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	38279.0	0.0	38279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	959.8	2.5
10°-20°	1890.1	4.9
20°-30°	2797.6	7.3
30°-40°	4170.2	10.9
40°-50°	6107.2	16.0
50°-60°	8816.9	23.0
60°-70°	9275.0	24.2
70°-80°	3815.4	10.0
80°-90°	446.9	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°	38279.0	100.0
0°-180°	38279.0	100.0

Coefficient of Utilization



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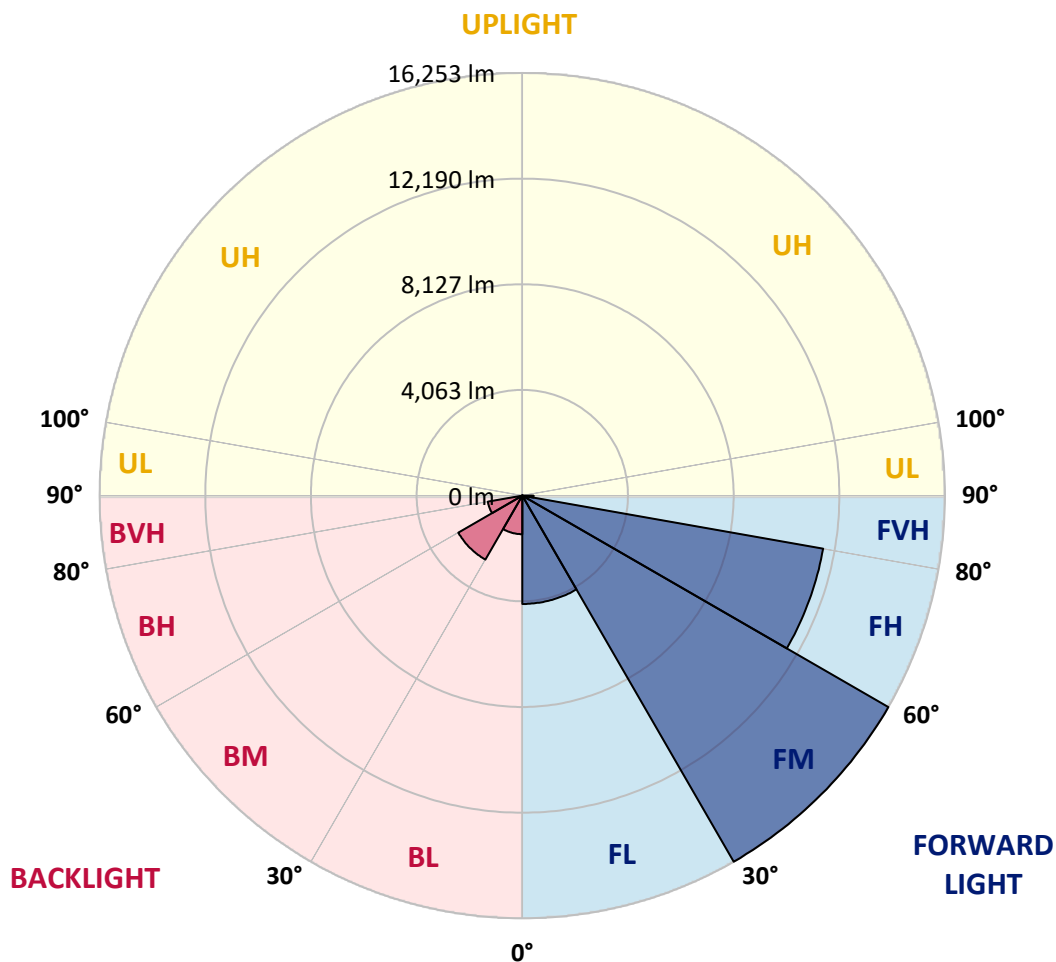
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4165.3	10.9			
FM	(30°-60°)	16253.3	42.5			
FH	(60°-80°)	11745.7	30.7			G4/12000
FVH	(80°-90°)	433.7	1.1			G3/500
BL	(0°-30°)	1482.2	3.9	B3/2500		
BM	(30°-60°)	2841.0	7.4	B3/5000		
BH	(60°-80°)	1344.6	3.5	B3/2500		G3/2500
BVH	(80°-90°)	13.1	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2
2.5°	14160.3	14136.8	14346.0	14687.7	15032.5	15212.2	15176.8	15162.1	14876.3	14667.1	14228.1
5°	14130.9	14251.7	14625.9	15551.0	16252.3	16591.1	16691.3	16270.0	15713.1	14905.8	13909.9
7.5°	13285.3	13435.5	14045.4	15492.1	16738.4	17475.0	17448.5	16773.8	15624.7	14375.4	12955.3
10°	12236.4	12413.1	13129.1	14885.2	16502.7	17475.0	17528.1	16673.6	15244.6	13641.8	12148.0
12.5°	11496.8	11706.0	12498.6	14319.4	15895.8	16853.3	16915.2	16296.5	14958.8	13358.9	11708.9
15°	11246.4	11443.8	12248.1	14033.6	15250.5	15766.1	15751.4	15686.6	14846.9	13426.7	11732.5
17.5°	11676.5	11838.6	12746.1	14163.3	14646.5	14593.5	14670.1	14982.4	14870.4	13995.3	12475.0
20°	12787.3	12952.3	13927.6	14561.1	14183.9	13848.0	13883.4	14404.9	15088.5	15064.9	13635.9
22.5°	14316.5	14596.4	15480.3	15333.0	14122.0	13385.4	13311.8	13989.5	15459.7	16296.5	15203.4
25°	16252.3	16535.1	17224.6	16564.6	14425.5	13276.4	13208.7	13862.8	15910.5	17498.6	16968.3
27.5°	17878.7	18093.8	18780.3	17763.8	14873.4	13323.6	13211.6	13880.4	16275.9	18521.0	18456.2
30°	19181.0	19340.1	19743.8	18323.6	15259.3	13529.8	13400.2	14139.7	16437.9	19018.9	19661.3
32.5°	20229.9	20498.0	20624.7	18921.7	15813.3	13918.7	13697.8	14637.7	16832.7	19634.7	20925.3
35°	21429.1	21738.5	21576.4	19493.3	16544.0	14525.7	14254.6	15445.0	17430.8	20203.4	22392.6
37.5°	22949.4	23305.9	22672.5	20094.4	17315.9	15439.1	15312.4	16579.3	18338.3	21016.6	23965.9
40°	24522.8	24729.0	23736.1	20825.1	18264.7	16767.9	16888.7	18264.7	19525.7	21991.8	25639.5
42.5°	25751.4	25945.9	24829.2	21437.9	19234.0	18344.2	18848.0	20297.7	20886.9	22990.7	26888.7
45°	26691.3	26856.3	25586.4	22106.8	20542.2	20627.7	21579.4	22392.6	22251.1	23600.6	27852.2
47.5°	27422.0	27563.5	26169.8	22825.7	22501.6	23420.8	24876.4	25221.1	23665.4	24260.6	28724.3
50°	27722.6	27763.8	26352.5	23742.0	24726.1	26980.1	28497.5	28288.3	25285.9	24994.2	29652.5
52.5°	28114.4	28105.6	26874.0	24614.1	26818.0	30162.2	31676.6	31202.3	27118.6	26093.2	30695.5
55°	29142.7	29154.5	27990.7	25851.6	28600.6	32731.4	34351.9	34007.2	29051.4	27949.4	31912.3
57.5°	30392.0	30436.2	29578.8	27298.3	30303.6	34593.5	36349.6	36217.0	31664.8	30014.9	33061.4
59°	30554.0	30642.4	30330.1	28317.7	31314.2	35165.1	37033.2	37162.8	33064.4	31376.1	33683.1
60°	30259.4	30406.7	30548.2	28895.2	31906.4	35371.4	37074.4	37327.8	34116.2	32301.3	33966.0
62.5°	28974.8	29207.6	29917.6	30671.9	32646.0	34729.1	35757.4	36287.7	35418.5	34732.0	33992.5
65°	27292.4	27413.2	28438.5	30987.2	31211.1	31729.7	32047.9	32728.5	33854.0	35669.0	32775.6
67.5°	24534.6	24891.1	26146.3	29157.5	26977.1	26364.3	26284.7	25607.1	28529.9	33435.6	29776.2
70°	20268.2	20427.3	21974.2	23904.1	20359.5	19416.7	19793.8	19540.4	22115.6	28783.3	23965.9
72.5°	15327.1	15686.6	17198.1	19054.3	13853.9	12631.2	13671.2	13577.0	16611.7	23132.1	16464.4
75°	10904.6	11137.3	13064.3	14911.7	9702.5	8220.4	8594.6	8945.2	11597.0	18264.7	9729.0
77.5°	7492.7	7693.0	9139.7	9861.6	7077.2	6779.6	6202.1	6541.0	7598.7	10836.8	5294.7
80°	4519.8	4510.9	5462.6	5639.4	4929.3	5724.8	4802.6	5391.9	4593.4	4637.6	2050.7
82.5°	2934.6	2905.1	3341.2	3641.7	2743.1	2884.5	1935.8	2790.2	2993.5	1293.5	648.2
85°	1314.1	1370.1	1605.8	2118.5	1202.1	639.4	394.8	857.4	1275.8	651.2	0.0
87.5°	135.5	106.1	282.9	515.6	165.0	17.7	58.9	29.5	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2
2.5°	14024.8	13853.9	13344.2	12866.9	12457.3	11956.4	11632.3	11122.6	10813.2	10719.0	10733.7
5°	13462.0	12970.0	12000.6	11225.7	10362.4	9870.4	9122.0	8403.1	8014.2	7869.8	7805.0
7.5°	12283.5	11756.1	10586.4	9369.5	8444.3	7581.1	7024.2	6390.7	5957.6	5601.1	5539.2
10°	11408.4	10716.0	9266.4	7958.2	7227.5	6579.3	6022.4	5388.9	4879.2	4472.6	4360.7
12.5°	10884.0	10109.1	8491.5	7395.4	6703.0	6037.2	5312.3	4578.7	4057.2	3618.2	3414.9
15°	10789.7	9891.0	8273.5	6991.8	6137.3	5333.0	4369.5	3576.9	3040.7	2625.2	2498.5
17.5°	11358.3	10282.9	8241.0	6570.4	5397.8	4257.5	3255.8	2598.7	1994.7	1761.9	1670.6
20°	12371.9	10975.3	8238.1	6081.3	4637.6	3279.3	2286.4	1694.2	1449.6	1337.7	1284.6
22.5°	13753.7	11918.1	8394.3	5660.0	3848.0	2419.0	1632.3	1349.4	1208.0	1116.7	1096.1
25°	15442.0	13314.7	8777.3	5374.2	3244.0	1897.5	1346.5	1155.0	1037.1	995.9	978.2
27.5°	16941.7	14652.4	9198.6	5079.6	2810.9	1679.4	1249.3	1057.8	963.5	931.1	904.5
30°	18235.2	15866.3	9401.9	4690.7	2463.2	1538.0	1266.9	1131.4	1007.7	910.4	866.2
32.5°	19313.6	16797.4	9534.5	4337.1	2168.5	1258.1	1001.8	875.1	819.1	783.7	754.3
35°	20663.0	17805.0	9455.0	4136.7	2018.3	1146.1	913.4	754.3	660.0	589.3	559.8
37.5°	22077.3	18812.7	9316.5	3971.7	1950.5	1063.6	869.2	716.0	612.8	539.2	500.9
40°	23541.6	19746.7	9154.4	3818.5	1888.6	1010.6	842.7	683.6	580.4	500.9	459.6
42.5°	24882.3	20657.1	9089.6	3718.3	1788.5	1019.5	822.0	668.8	548.0	465.5	430.2
45°	25966.5	21520.4	9178.0	3665.3	1679.4	1004.7	827.9	651.2	521.5	442.0	406.6
47.5°	27124.5	22740.2	9463.8	3612.3	1573.4	934.0	872.1	648.2	509.7	427.2	388.9
50°	28471.0	24301.8	10117.9	3482.6	1443.7	857.4	928.1	645.3	495.0	409.5	371.2
52.5°	30265.3	26075.5	10792.6	3255.8	1255.2	783.7	886.9	636.4	465.5	388.9	350.6
55°	31877.0	27943.5	11364.2	2987.6	1016.5	677.7	798.5	598.1	415.4	353.6	318.2
57.5°	32542.9	28998.4	11346.5	2616.4	813.2	595.2	657.0	548.0	362.4	312.3	282.9
59°	32298.3	28865.8	10966.5	2342.4	742.5	551.0	545.1	542.1	338.8	282.9	259.3
60°	31953.6	28382.6	10556.9	2206.8	698.3	521.5	500.9	536.2	318.2	265.2	241.6
62.5°	30633.6	26379.0	9198.6	1977.0	639.4	442.0	400.7	453.7	282.9	229.8	209.2
65°	28721.4	23300.0	7787.3	1912.2	621.7	365.4	332.9	324.1	241.6	194.5	176.8
67.5°	24991.3	19717.2	6308.2	1868.0	627.6	306.4	291.7	244.6	200.4	162.1	150.3
70°	20008.9	15374.3	5165.0	1817.9	633.5	250.4	244.6	194.5	162.1	135.5	123.7
72.5°	12156.8	9113.2	4066.0	1579.3	615.8	200.4	218.0	147.3	117.9	97.2	91.3
75°	7516.2	6237.5	2522.1	1228.6	406.6	147.3	153.2	91.3	79.6	61.9	61.9
77.5°	4354.8	3939.3	901.6	442.0	179.7	88.4	67.8	47.1	44.2	26.5	26.5
80°	1806.1	1446.7	312.3	150.3	97.2	41.2	14.7	2.9	0.0	0.0	0.0
82.5°	527.4	468.5	85.4	67.8	29.5	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°	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2
2.5°	10483.3	10386.0	10341.8	10492.1	10353.6	10530.4	10394.9	10453.8	10627.6	10704.2	10901.6
5°	7846.2	7746.1	7698.9	7925.8	7914.0	8026.0	8014.2	8117.3	8205.7	8008.3	8211.6
7.5°	5465.6	5397.8	5509.7	5686.5	5875.1	5813.2	5813.2	5674.7	5721.9	5692.4	5683.6
10°	4157.4	3924.6	3865.7	3859.8	3930.5	3945.2	3865.7	3674.1	3744.9	3765.5	3889.2
12.5°	3270.5	3090.8	2816.7	2693.0	2660.6	2687.1	2424.9	2256.9	2336.5	2289.3	2410.1
15°	2345.3	2198.0	2036.0	1897.5	1859.2	1806.1	1520.3	1320.0	1296.4	1305.3	1325.9
17.5°	1673.5	1573.4	1573.4	1426.1	1346.5	1187.4	1043.0	954.6	945.8	954.6	969.4
20°	1234.5	1181.5	1175.6	1137.3	1048.9	942.8	842.7	825.0	819.1	833.8	839.7
22.5°	1063.6	1007.7	960.5	957.6	875.1	786.7	739.5	716.0	718.9	724.8	739.5
25°	951.7	892.8	842.7	813.2	754.3	692.4	648.2	636.4	636.4	645.3	648.2
27.5°	872.1	798.5	754.3	713.0	660.0	607.0	568.7	559.8	553.9	559.8	574.5
30°	816.1	742.5	686.5	624.6	583.4	533.3	500.9	489.1	486.2	489.1	500.9
32.5°	698.3	654.1	609.9	553.9	503.8	471.4	436.1	415.4	415.4	421.3	433.1
35°	527.4	503.8	500.9	486.2	444.9	409.5	368.3	347.7	347.7	359.5	365.4
37.5°	465.5	421.3	415.4	409.5	391.9	344.7	306.4	288.7	285.8	294.6	306.4
40°	424.3	374.2	347.7	341.8	344.7	291.7	250.4	232.8	232.8	235.7	247.5
42.5°	391.9	332.9	285.8	279.9	291.7	244.6	203.3	185.6	185.6	185.6	200.4
45°	365.4	297.6	241.6	212.1	229.8	200.4	165.0	147.3	141.4	147.3	153.2
47.5°	347.7	271.1	212.1	170.9	170.9	159.1	132.6	112.0	106.1	109.0	117.9
50°	332.9	247.5	179.7	138.5	123.7	126.7	100.2	85.4	79.6	79.6	88.4
52.5°	309.4	223.9	156.2	117.9	94.3	85.4	73.7	61.9	58.9	61.9	67.8
55°	279.9	203.3	135.5	97.2	73.7	58.9	53.0	44.2	41.2	44.2	53.0
57.5°	247.5	170.9	109.0	76.6	50.1	38.3	35.4	29.5	23.6	26.5	32.4
59°	226.9	153.2	94.3	61.9	38.3	26.5	26.5	20.6	14.7	17.7	26.5
60°	218.0	141.4	79.6	53.0	32.4	20.6	20.6	14.7	8.8	11.8	20.6
62.5°	185.6	117.9	61.9	32.4	14.7	2.9	8.8	2.9	0.0	2.9	8.8
65°	156.2	94.3	41.2	14.7	0.0	0.0	0.0	0.0	0.0	0.0	2.9
67.5°	129.6	70.7	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	103.1	47.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	70.7	26.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	44.2	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.7	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: P458090

CATALOG NUMBER: GALN-SA9C-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2	12961.2
2.5°	10913.4	11334.8	11594.0	12083.1	12584.0	12970.0	13453.2	13886.3	14066.1	14160.3
5°	8417.8	9004.2	9502.1	10247.5	10939.9	11782.6	12637.1	13644.7	14030.7	14130.9
7.5°	5907.5	6505.6	7027.1	7890.4	8877.5	10005.9	11284.7	12563.4	13126.2	13285.3
10°	4266.4	4905.7	5542.2	6405.4	7327.7	8550.4	9882.2	11464.4	12112.6	12236.4
12.5°	2693.0	3379.5	4413.7	5480.3	6455.5	7439.6	8833.3	10554.0	11269.9	11496.8
15°	1561.6	2074.3	2855.1	4245.7	5486.2	6788.5	8308.8	10212.2	11013.6	11246.4
17.5°	1046.0	1222.8	1759.0	2822.6	4460.8	6187.4	8176.2	10492.1	11379.0	11676.5
20°	881.0	960.5	1149.1	1720.7	3435.5	5651.2	8211.6	11252.3	12416.1	12787.3
22.5°	774.9	848.6	969.4	1237.5	2398.4	4985.3	8379.5	12339.5	13842.1	14316.5
25°	683.6	757.2	863.3	1025.3	1611.7	4216.3	8747.8	13930.5	15730.8	16252.3
27.5°	607.0	674.7	766.1	904.5	1240.4	3358.9	9074.9	15480.3	17454.4	17878.7
30°	536.2	592.2	680.6	786.7	1031.2	2589.9	9239.9	16835.7	18709.6	19181.0
32.5°	465.5	518.6	604.0	689.5	848.6	1974.1	9125.0	17831.5	19929.4	20229.9
35°	397.8	453.7	524.5	604.0	733.7	1594.0	8550.4	18951.2	21193.4	21429.1
37.5°	341.8	388.9	462.6	524.5	662.9	1275.8	7855.1	19958.8	22610.6	22949.4
40°	288.7	335.9	409.5	465.5	609.9	1004.7	7227.5	21078.5	24104.4	24522.8
42.5°	235.7	291.7	356.5	447.9	524.5	766.1	6467.3	21986.0	25227.0	25751.4
45°	188.6	250.4	321.2	444.9	456.7	583.4	5733.7	22693.1	26219.9	26691.3
47.5°	150.3	212.1	309.4	415.4	374.2	462.6	5315.3	23432.6	27044.9	27422.0
50°	120.8	176.8	324.1	365.4	312.3	391.9	5303.5	24257.6	27472.1	27722.6
52.5°	97.2	144.4	274.0	279.9	265.2	344.7	5621.7	25185.7	27908.2	28114.4
55°	82.5	120.8	179.7	206.2	238.7	312.3	5860.4	26614.7	28948.3	29142.7
57.5°	64.8	103.1	138.5	165.0	212.1	285.8	5892.8	27716.7	30265.3	30392.0
59°	56.0	88.4	123.7	147.3	194.5	268.1	5760.2	27784.4	30350.7	30554.0
60°	47.1	79.6	109.0	138.5	179.7	253.4	5615.8	27292.4	30032.5	30259.4
62.5°	35.4	61.9	79.6	112.0	147.3	218.0	4932.3	25574.7	28815.7	28974.8
65°	23.6	44.2	58.9	82.5	114.9	188.6	4018.9	23347.2	26935.9	27292.4
67.5°	14.7	32.4	47.1	61.9	94.3	159.1	2863.9	20020.7	24304.8	24534.6
70°	8.8	20.6	35.4	50.1	73.7	126.7	1700.1	15825.1	20221.1	20268.2
72.5°	5.9	14.7	23.6	35.4	58.9	114.9	825.0	10315.3	14764.4	15327.1
75°	2.9	8.8	14.7	26.5	47.1	94.3	394.8	6891.6	10742.5	10904.6
77.5°	0.0	2.9	8.8	17.7	35.4	73.7	229.8	4525.7	7324.7	7492.7
80°	0.0	0.0	5.9	14.7	26.5	47.1	138.5	2669.4	4437.3	4519.8
82.5°	0.0	0.0	2.9	11.8	17.7	35.4	70.7	1172.7	2905.1	2934.6
85°	0.0	0.0	2.9	11.8	14.7	23.6	26.5	159.1	1290.5	1314.1
87.5°	0.0	0.0	2.9	14.7	14.7	14.7	14.7	8.8	109.0	135.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)