

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: P651025

Luminaire Tested: **GALN-SA7C-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA 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: 29575.5 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

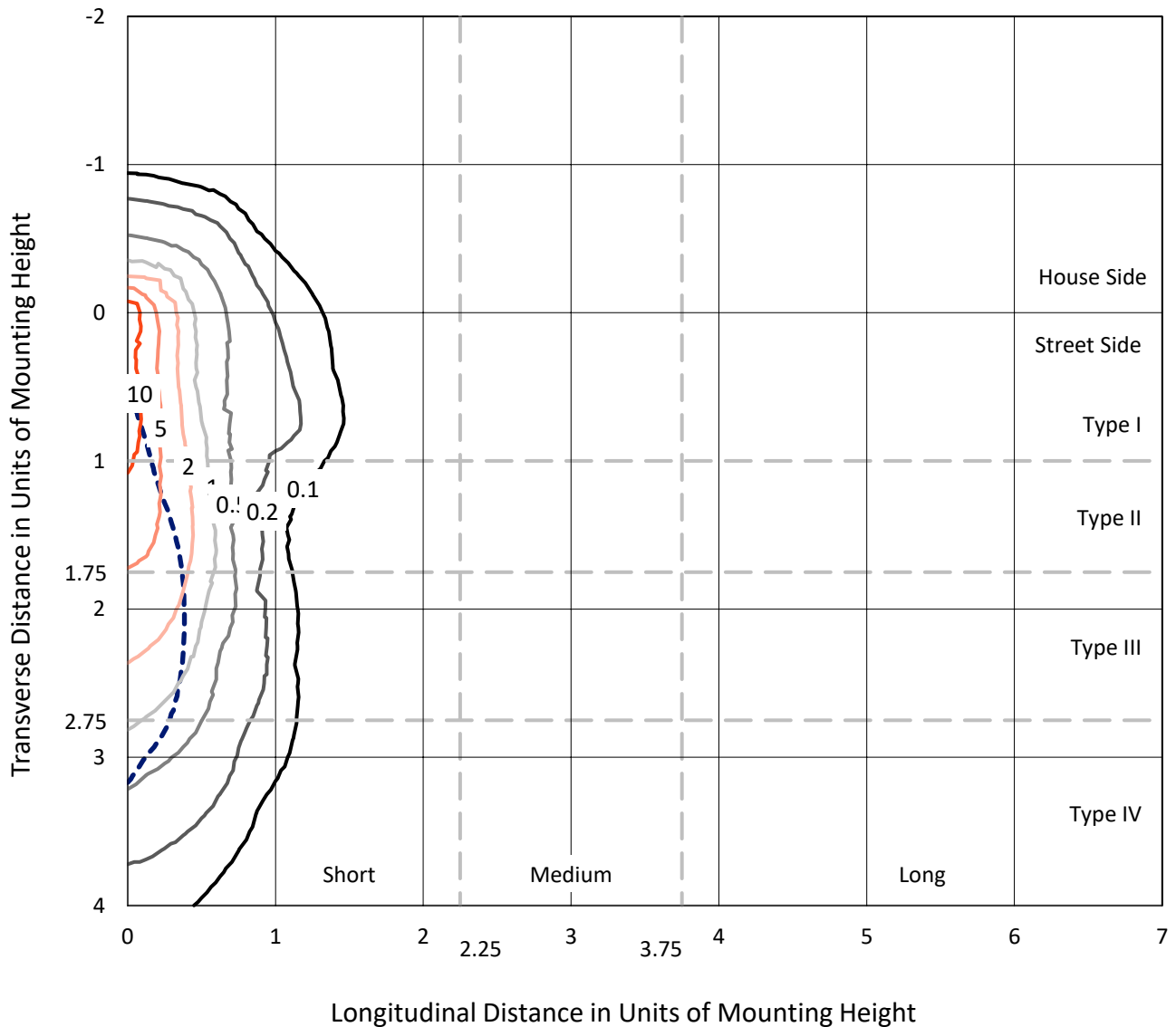
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

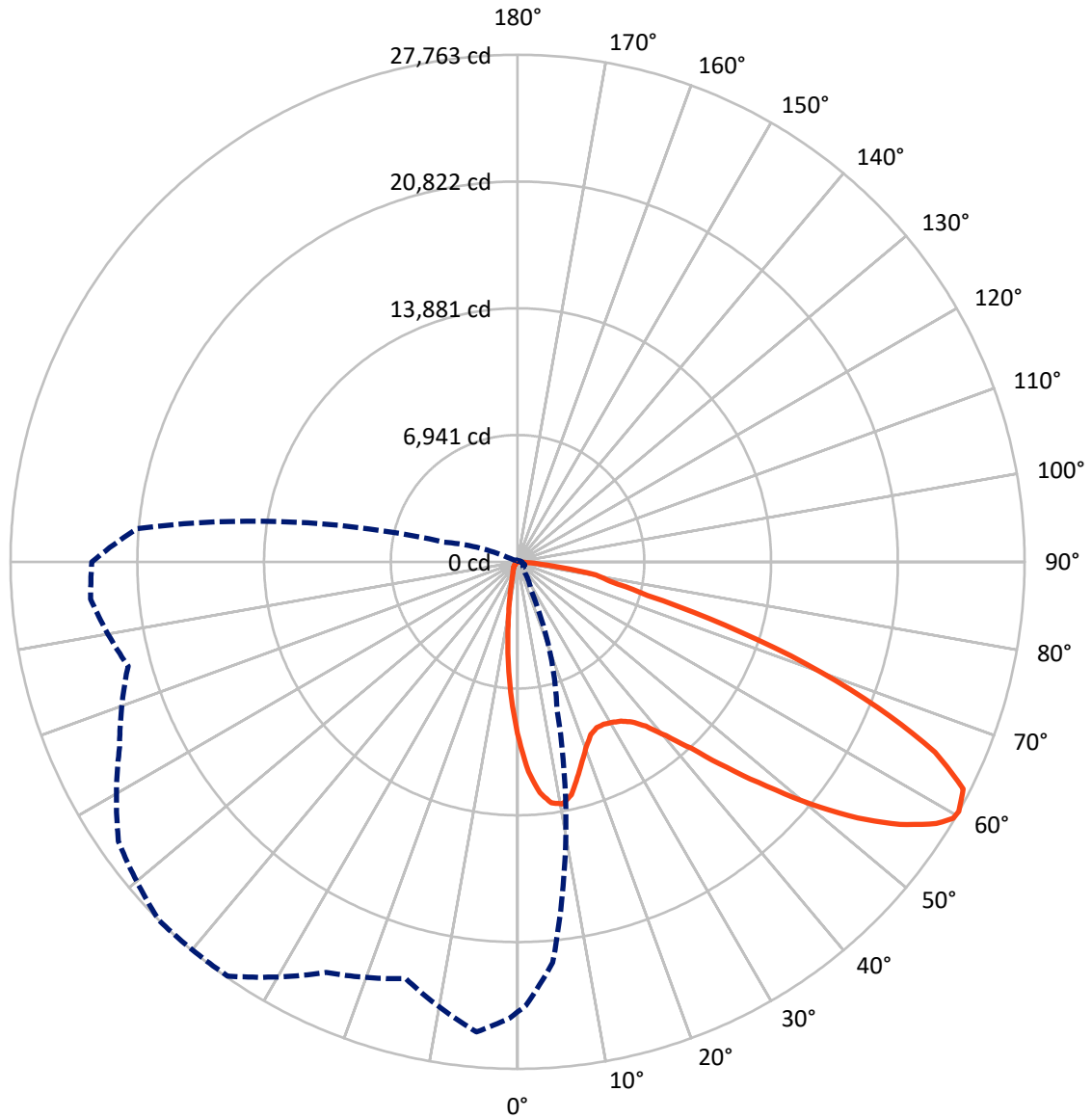
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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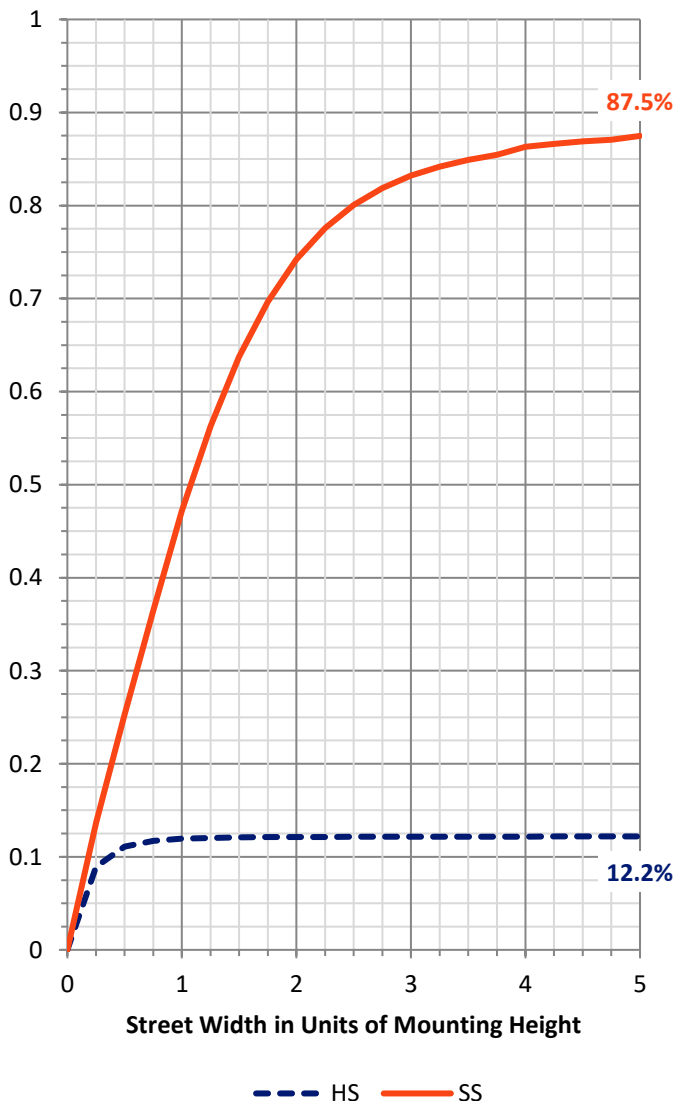
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3647.8	0.0	3647.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	25927.6	0.0	25927.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	29575.5	0.0	29575.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.0	2.5
10°-20°	1443.9	4.9
20°-30°	2117.2	7.2
30°-40°	3148.6	10.6
40°-50°	4582.2	15.5
50°-60°	6607.8	22.3
60°-70°	7267.9	24.6
70°-80°	3255.4	11.0
80°-90°	425.4	1.4
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°	29575.5	100.0
0°-180°	29575.5	100.0

Coefficient of Utilization

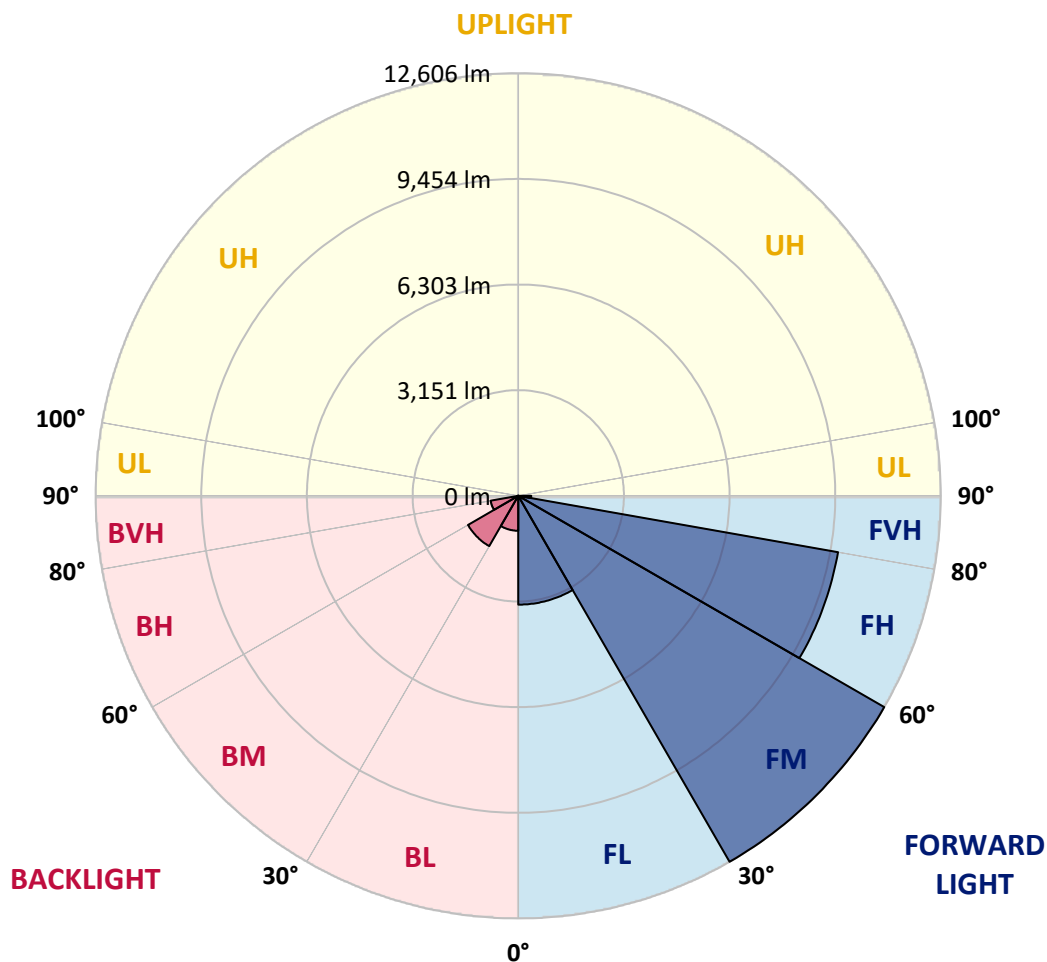


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3245.8	11.0			
FM (30°-60°)	12606.0	42.6			
FH (60°-80°)	9686.8	32.8			G4/12000
FVH (80°-90°)	389.0	1.3			G3/500
BL (0°-30°)	1042.3	3.5	B3/2500		
BM (30°-60°)	1732.6	5.9	B2/2500		
BH (60°-80°)	836.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	36.4	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1
2.5°	10746.3	10699.1	10591.2	10263.0	9977.5	9604.2	9226.5	8929.8	8747.7	8412.7	8259.8
5°	10411.3	10433.9	10121.4	9446.9	8695.9	8183.4	7623.6	7178.4	6688.4	6378.1	6052.1
7.5°	9536.8	9491.9	9152.4	8212.6	7299.9	6557.9	5849.7	5274.2	4912.3	4622.3	4379.4
10°	8788.1	8754.5	8320.5	7111.0	6130.8	5575.5	5096.6	4593.0	4204.1	3779.2	3439.7
12.5°	8318.2	8241.9	7742.8	6479.2	5681.1	5164.1	4642.5	4118.7	3581.4	3152.0	2740.6
15°	8160.9	8050.7	7495.4	6261.2	5393.4	4736.9	4082.7	3480.2	2861.9	2387.6	2077.4
17.5°	8446.4	8264.3	7673.0	6223.0	5049.4	4179.3	3374.5	2589.9	1946.9	1584.9	1393.9
20°	9100.6	8891.6	8122.7	6184.8	4667.2	3554.4	2565.2	1830.0	1346.7	1148.8	1043.2
22.5°	10071.9	9784.1	8788.1	6245.4	4314.2	2945.1	1852.5	1292.7	1070.2	946.5	872.3
25°	11238.7	10998.1	9631.2	6461.3	4035.5	2466.2	1432.1	1056.6	901.6	825.1	768.8
27.5°	12517.9	12133.4	10721.6	6719.8	3781.5	2095.3	1256.7	944.3	802.6	732.9	703.7
30°	13428.4	13129.4	11634.4	6899.6	3464.4	1816.6	1148.8	930.7	804.8	721.7	667.7
32.5°	14327.7	13945.5	12398.8	6982.8	3232.9	1623.2	993.7	811.6	705.9	663.2	609.2
35°	15289.9	14889.7	13160.9	6937.9	3059.8	1495.0	901.6	723.9	604.8	532.9	478.9
37.5°	16263.3	15840.7	13918.6	6776.0	2951.8	1443.3	829.6	687.9	571.0	496.9	438.4
40°	17419.0	16854.6	14628.9	6643.4	2839.5	1416.3	782.4	665.5	546.3	467.6	409.1
42.5°	18363.2	17825.8	15301.2	6573.7	2763.0	1353.4	782.4	647.5	530.6	442.9	382.2
45°	19258.0	18700.4	16027.3	6629.9	2731.6	1274.7	791.4	645.2	519.3	424.9	364.2
47.5°	20006.6	19523.2	16773.7	6841.2	2691.1	1189.3	744.1	676.7	512.6	409.1	346.2
50°	20890.1	20422.5	17760.7	7268.3	2619.1	1103.9	685.7	728.4	510.3	395.7	330.5
52.5°	22135.6	21629.8	19123.1	7754.0	2504.5	973.5	631.8	721.7	501.3	373.2	314.8
55°	23657.7	23248.5	20701.3	8336.2	2347.1	827.3	546.3	640.8	474.4	335.0	287.8
57.5°	24633.4	24284.9	21883.8	8588.0	2106.5	676.7	481.1	537.3	433.9	299.0	256.3
59°	24748.0	24433.2	22131.2	8504.9	1949.2	618.2	449.6	460.9	422.7	278.8	238.3
60°	24651.3	24325.3	22032.2	8343.0	1803.0	577.8	422.7	409.1	424.9	267.5	224.8
62.5°	24030.8	23473.3	21072.3	7522.4	1575.9	530.6	375.4	335.0	375.4	240.5	200.1
65°	22832.6	21996.3	19172.5	6366.9	1486.0	503.6	319.2	281.1	285.5	211.3	173.1
67.5°	20739.5	19685.1	16643.3	5173.1	1447.9	505.9	269.8	251.8	220.3	179.9	152.9
70°	17430.1	16378.1	13354.2	4255.8	1429.9	505.9	229.3	215.8	184.3	150.6	132.6
72.5°	12351.5	11218.4	9008.5	3343.1	1288.2	503.6	195.6	195.6	150.6	125.9	107.9
75°	6978.4	6987.4	5663.2	2365.1	1070.2	415.9	157.4	155.2	110.2	96.6	80.9
77.5°	4067.0	3995.0	3817.4	1016.2	496.9	188.9	110.2	94.4	76.4	69.7	58.4
80°	2090.8	1719.8	1674.9	368.7	177.6	119.2	76.4	54.0	49.5	45.0	40.5
82.5°	618.2	620.5	553.0	148.4	98.9	78.7	38.2	29.3	27.0	24.7	24.7
85°	42.7	27.0	31.5	45.0	60.7	31.5	2.3	6.7	6.7	9.0	11.3
87.5°	4.5	2.3	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°	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1
2.5°	8091.2	8190.2	8005.8	8010.3	7857.4	7906.8	7727.0	7785.5	7679.8	7760.7	7999.0
5°	6088.1	6110.5	5962.2	5915.0	5937.5	6029.6	6065.6	5901.5	5971.2	5834.0	5825.0
7.5°	4289.5	4316.5	4231.1	4219.8	4381.7	4343.5	4413.1	4244.6	4085.0	4154.6	4026.5
10°	3331.8	3219.4	3044.1	2994.5	2963.1	2983.4	2983.4	2830.5	2808.0	2747.3	2839.5
12.5°	2630.4	2493.2	2326.9	2102.1	2045.8	2041.4	1958.2	1823.3	1780.6	1728.8	1805.3
15°	1910.9	1854.7	1715.4	1589.5	1461.3	1436.6	1301.7	1191.5	1045.4	1025.2	1018.5
17.5°	1344.4	1261.2	1259.0	1187.1	1112.8	1063.4	937.5	811.6	755.4	748.7	748.7
20°	1007.2	978.0	930.7	921.7	899.3	843.1	730.7	663.2	636.2	638.5	647.5
22.5°	847.6	827.3	784.7	764.4	755.4	705.9	622.8	577.8	564.3	564.3	566.6
25°	757.7	739.7	692.5	660.9	649.8	613.8	548.6	514.9	503.6	503.6	503.6
27.5°	690.2	667.7	618.2	591.3	571.0	530.6	490.1	456.4	445.1	445.1	447.4
30°	642.9	618.2	573.3	537.3	505.9	469.9	436.1	407.0	393.4	391.1	393.4
32.5°	580.0	557.6	512.6	490.1	454.1	411.4	384.4	357.4	344.0	346.2	344.0
35°	451.9	445.1	413.7	420.4	400.1	364.2	339.5	310.2	294.5	292.2	296.8
37.5°	411.4	384.4	348.5	350.7	344.0	330.5	290.0	258.5	247.3	247.3	249.5
40°	380.0	353.0	312.5	292.2	294.5	294.5	251.8	218.1	206.8	204.6	209.1
42.5°	353.0	326.0	281.1	247.3	238.3	249.5	213.6	179.9	168.6	164.1	168.6
45°	335.0	305.8	254.1	215.8	188.9	202.3	175.3	148.4	134.9	134.9	132.6
47.5°	317.0	290.0	233.8	186.6	157.4	150.6	143.9	119.2	105.6	103.4	105.6
50°	301.2	274.3	211.3	161.9	132.6	116.9	116.9	94.4	85.4	80.9	83.2
52.5°	285.5	256.3	191.1	143.9	114.6	94.4	83.2	76.4	69.7	67.4	69.7
55°	263.1	233.8	170.9	123.6	98.9	78.7	65.2	63.0	58.4	54.0	58.4
57.5°	236.1	209.1	150.6	105.6	78.7	60.7	54.0	51.7	47.2	45.0	45.0
59°	220.3	195.6	139.4	92.2	69.7	54.0	49.5	47.2	42.7	38.2	40.5
60°	211.3	191.1	132.6	85.4	63.0	49.5	45.0	42.7	38.2	36.0	38.2
62.5°	186.6	170.9	116.9	69.7	49.5	36.0	31.5	33.7	31.5	29.3	31.5
65°	164.1	150.6	98.9	54.0	38.2	24.7	22.5	29.3	27.0	24.7	27.0
67.5°	146.2	130.4	83.2	40.5	27.0	13.5	15.7	24.7	24.7	22.5	24.7
70°	125.9	112.4	67.4	29.3	13.5	6.7	11.3	18.0	22.5	20.3	22.5
72.5°	103.4	87.7	51.7	20.3	6.7	0.0	6.7	15.7	22.5	20.3	22.5
75°	80.9	65.2	38.2	11.3	0.0	0.0	2.3	13.5	22.5	20.3	22.5
77.5°	58.4	47.2	22.5	2.3	0.0	0.0	2.3	13.5	22.5	20.3	22.5
80°	38.2	33.7	9.0	0.0	0.0	0.0	2.3	13.5	22.5	22.5	24.7
82.5°	24.7	18.0	0.0	0.0	0.0	0.0	4.5	18.0	24.7	27.0	27.0
85°	11.3	0.0	0.0	0.0	0.0	0.0	9.0	22.5	29.3	29.3	29.3
87.5°	0.0	0.0	0.0	0.0	0.0	4.5	15.7	27.0	33.7	33.7	33.7
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°	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1
2.5°	8039.5	8181.2	8381.2	8689.2	8938.8	9332.2	9633.5	10044.9	10460.8	10586.7	10782.3
5°	5917.2	6099.4	6553.5	6967.1	7227.9	8059.7	8585.9	9415.4	10159.5	10517.0	10905.9
7.5°	4109.7	4325.5	4671.8	5249.5	5798.1	6474.8	7324.6	8273.3	9363.7	9874.0	10422.6
10°	2884.5	3154.2	3642.0	4116.4	4806.7	5449.6	6288.2	7335.8	8538.6	9141.1	9829.1
12.5°	1821.0	2061.6	2706.8	3239.6	4100.7	4847.1	5620.5	6569.2	7963.1	8581.3	9303.0
15°	1040.9	1243.3	1544.5	2228.0	3183.4	4170.4	5134.9	6236.4	7668.6	8430.7	9210.8
17.5°	775.7	829.6	964.5	1351.2	2221.2	3374.5	4687.5	6135.3	7868.6	8763.4	9653.7
20°	651.9	687.9	750.9	903.7	1416.3	2598.9	4251.3	6153.3	8516.1	9640.2	10485.5
22.5°	584.5	607.0	658.8	757.7	966.7	1893.0	3741.0	6259.0	9300.7	10717.1	11692.8
25°	512.6	541.8	586.8	672.2	804.8	1313.0	3237.3	6495.0	10400.1	12084.0	13001.3
27.5°	456.4	483.3	528.3	607.0	705.9	1002.7	2650.6	6697.3	11560.1	13459.9	14210.8
30°	400.1	427.1	472.1	535.0	625.0	811.6	2018.9	6816.5	12686.5	14491.8	15069.5
32.5°	353.0	375.4	418.1	474.4	548.6	687.9	1591.7	6692.8	13547.6	15429.3	15816.0
35°	305.8	332.7	368.7	420.4	485.6	586.8	1324.2	6265.7	14287.2	16393.8	16533.1
37.5°	256.3	287.8	326.0	373.2	424.9	539.6	1063.4	5793.6	15078.5	17596.6	17367.2
40°	215.8	245.1	281.1	332.7	380.0	494.6	818.4	5290.0	15932.9	18725.1	18277.7
42.5°	175.3	206.8	249.5	296.8	375.4	431.7	634.0	4768.4	16699.5	19707.6	19100.5
45°	139.4	166.3	211.3	272.1	373.2	371.0	490.1	4253.5	17277.3	20409.1	19714.3
47.5°	110.2	132.6	177.6	265.3	344.0	314.8	393.4	3934.3	17884.3	21040.7	20184.2
50°	87.7	110.2	152.9	276.5	301.2	269.8	330.5	3986.0	18471.1	21362.2	20377.5
52.5°	74.2	96.6	132.6	218.1	231.5	236.1	290.0	4224.3	19228.7	21706.2	20762.0
55°	65.2	85.4	112.4	152.9	179.9	211.3	265.3	4397.4	20242.6	22443.6	21609.6
57.5°	51.7	74.2	101.2	130.4	148.4	184.3	245.1	4411.0	21159.9	23390.1	22735.9
59°	47.2	67.4	94.4	123.6	132.6	166.3	231.5	4296.2	21193.6	23531.8	23253.0
60°	42.7	65.2	89.9	114.6	125.9	157.4	220.3	4163.6	20887.9	23307.0	23466.6
62.5°	36.0	56.2	78.7	92.2	107.9	130.4	191.1	3682.5	19406.3	22288.5	23070.9
65°	31.5	49.5	67.4	76.4	89.9	112.4	168.6	2947.4	17769.7	20908.1	21937.8
67.5°	29.3	45.0	58.4	65.2	78.7	103.4	150.6	2081.8	15649.6	19156.8	20235.9
70°	27.0	42.7	51.7	60.7	69.7	87.7	128.2	1214.0	12054.7	16085.7	17225.6
72.5°	27.0	40.5	45.0	51.7	60.7	78.7	119.2	656.5	8241.9	12270.6	13743.1
75°	27.0	38.2	40.5	45.0	54.0	71.9	105.6	344.0	5328.2	8525.1	10521.5
77.5°	27.0	36.0	40.5	42.7	51.7	63.0	92.2	215.8	3549.9	5971.2	7111.0
80°	29.3	36.0	38.2	42.7	49.5	58.4	76.4	143.9	2086.4	3592.6	4327.8
82.5°	31.5	36.0	40.5	45.0	51.7	56.2	67.4	89.9	962.2	2376.3	2688.8
85°	33.7	38.2	42.7	47.2	54.0	56.2	63.0	65.2	157.4	1072.4	1450.1
87.5°	36.0	40.5	45.0	49.5	58.4	58.4	58.4	58.4	54.0	114.6	292.2
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: P651025

CATALOG NUMBER: GALN-SA7C-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1	9775.1
2.5°	11029.6	11283.6	11461.2	11506.2	11378.1	11319.6	11157.7	10905.9	10753.1	10746.3
5°	11623.1	12218.9	12632.6	12702.2	12455.0	12036.8	11539.9	10899.2	10523.8	10411.3
7.5°	11522.0	12565.1	13230.5	13327.2	12911.3	12113.3	11151.0	10119.1	9709.9	9536.8
10°	11106.0	12378.5	13329.5	13482.3	12927.1	11802.9	10579.9	9428.9	8920.8	8788.1
12.5°	10750.8	12036.8	12882.1	13093.4	12673.0	11551.1	10238.2	8986.0	8442.0	8318.2
15°	10595.7	11632.1	12149.2	12257.1	12187.4	11393.8	10202.3	8918.6	8295.8	8160.9
17.5°	10750.8	11288.2	11353.3	11463.5	11618.6	11378.1	10548.5	9285.0	8612.8	8446.4
20°	11157.7	10989.1	10719.4	10766.6	11121.8	11443.2	11164.5	10096.6	9278.2	9100.6
22.5°	11850.2	10914.9	10303.4	10263.0	10712.6	11661.3	12068.3	11196.0	10247.2	10071.9
25°	12700.0	11101.5	10150.5	10062.9	10553.0	11980.5	13050.7	12542.6	11506.2	11238.7
27.5°	13626.2	11488.2	10150.5	10065.1	10539.5	12263.9	13891.6	13734.2	12810.2	12517.9
30°	14134.4	11807.5	10296.7	10200.0	10705.8	12428.0	14341.2	14793.0	13790.4	13428.4
32.5°	14588.5	12250.3	10582.2	10400.1	11054.4	12670.8	14743.6	15692.3	14570.5	14327.7
35°	15006.6	12724.8	10975.6	10764.3	11513.0	13003.5	15188.7	16636.6	15656.4	15289.9
37.5°	15467.5	13275.5	11589.4	11409.5	12279.6	13650.9	15717.0	17877.6	16724.2	16263.3
40°	15968.8	13914.0	12598.9	12522.4	13498.1	14383.9	16384.8	19201.7	17942.7	17419.0
42.5°	16479.2	14649.2	13835.3	13961.2	14878.5	15411.3	17070.4	20220.2	18940.9	18363.2
45°	16942.3	15588.9	15442.8	16065.5	16488.2	16414.0	17578.6	20937.4	19811.0	19258.0
47.5°	17526.9	16958.1	17387.4	18347.4	18358.7	17504.4	17963.0	21524.1	20559.7	20006.6
50°	18181.1	18574.5	19898.6	20876.6	20613.6	18576.8	18412.6	22218.8	21333.1	20890.1
52.5°	18938.7	20384.3	22218.8	23304.7	22690.9	19745.8	19161.3	22969.7	22560.5	22135.6
55°	19820.0	21618.6	24532.2	25397.8	24779.5	21198.2	20298.9	23988.1	23947.6	23657.7
57.5°	20815.9	22922.5	25872.1	27043.4	26492.6	22902.3	21888.3	24948.1	24795.2	24633.4
59°	21602.8	23592.5	26463.4	27677.4	27344.7	24096.1	22956.2	25546.1	24990.8	24748.0
60°	22079.4	24046.5	26681.5	27762.8	27686.4	24806.5	23632.9	25838.4	24988.5	24651.3
62.5°	23493.5	24840.2	26598.3	27382.9	27681.9	26168.9	25618.0	26159.9	24525.4	24030.8
65°	23997.1	24577.1	25220.2	25123.4	25379.8	26099.2	26886.0	25806.9	23536.2	22832.6
67.5°	23016.9	21692.8	21919.8	21274.6	21148.7	23203.5	26371.2	24080.3	21600.6	20739.5
70°	19401.9	16618.6	16504.0	16800.7	15986.8	18785.8	23680.1	20755.2	18405.9	17430.1
72.5°	15271.9	11744.5	10777.8	11870.4	11845.7	14332.2	19671.6	14727.8	12434.7	12351.5
75°	12009.8	8176.6	7176.2	7353.8	7695.6	10375.3	15667.6	9352.4	7657.3	6978.4
77.5°	8062.0	5793.6	5404.6	5186.5	5555.2	6661.4	9912.3	5071.9	4294.1	4067.0
80°	4647.0	4208.6	4779.7	4339.0	4536.9	4197.3	4930.3	2326.9	1931.2	2090.8
82.5°	3023.8	2396.6	2553.9	1897.5	2594.4	2616.9	1582.8	687.9	582.3	618.2
85°	1890.7	1124.1	631.8	449.6	894.7	1645.7	494.6	42.7	49.5	42.7
87.5°	490.1	186.6	78.7	116.9	143.9	128.2	114.6	6.7	2.3	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)