

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: P648546

Luminaire Tested: **GALN-SA7B-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648546
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-SA7B-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA 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: 22286.5 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

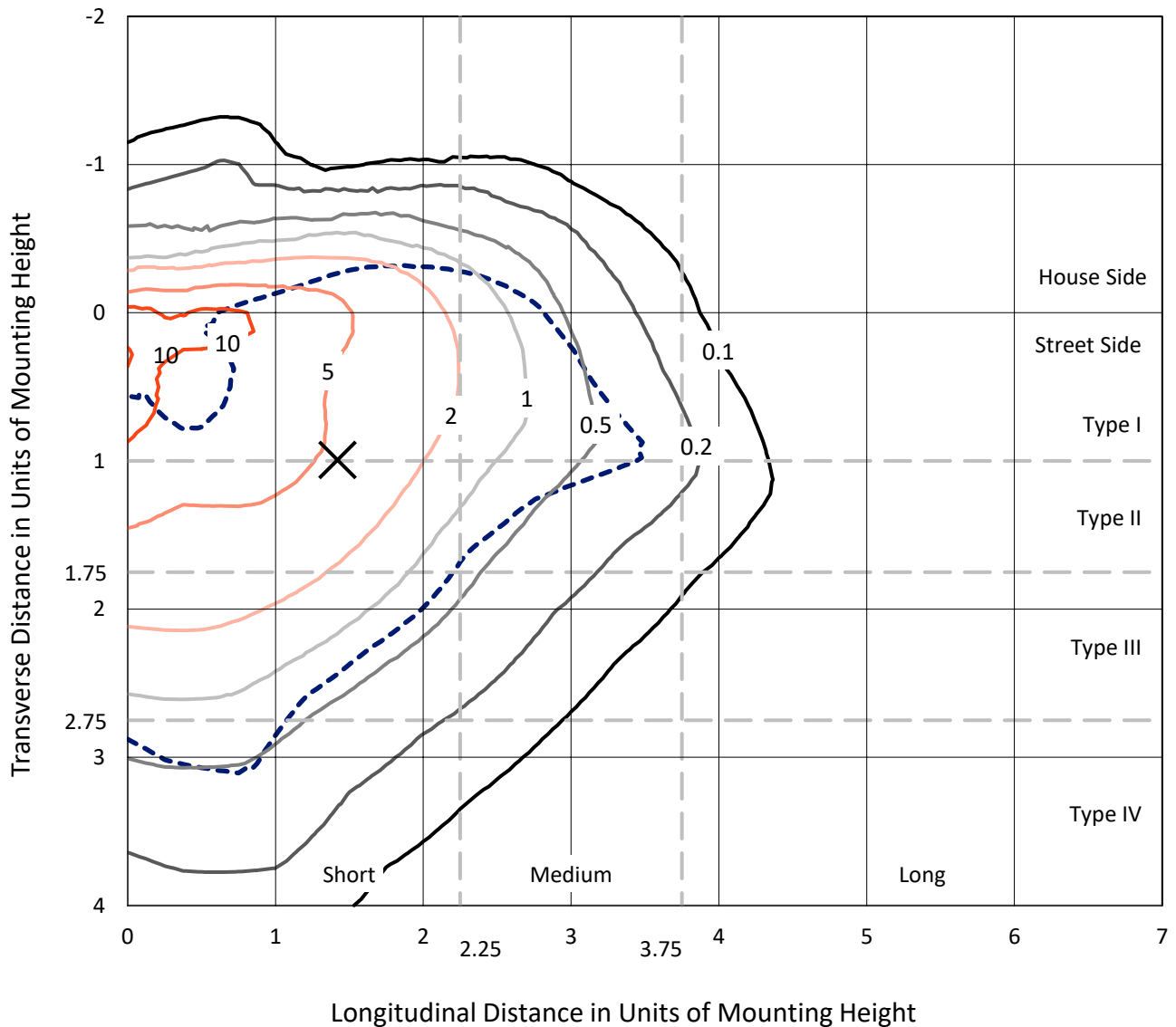
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648546
 CATALOG NUMBER: GALN-SA7B-835-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

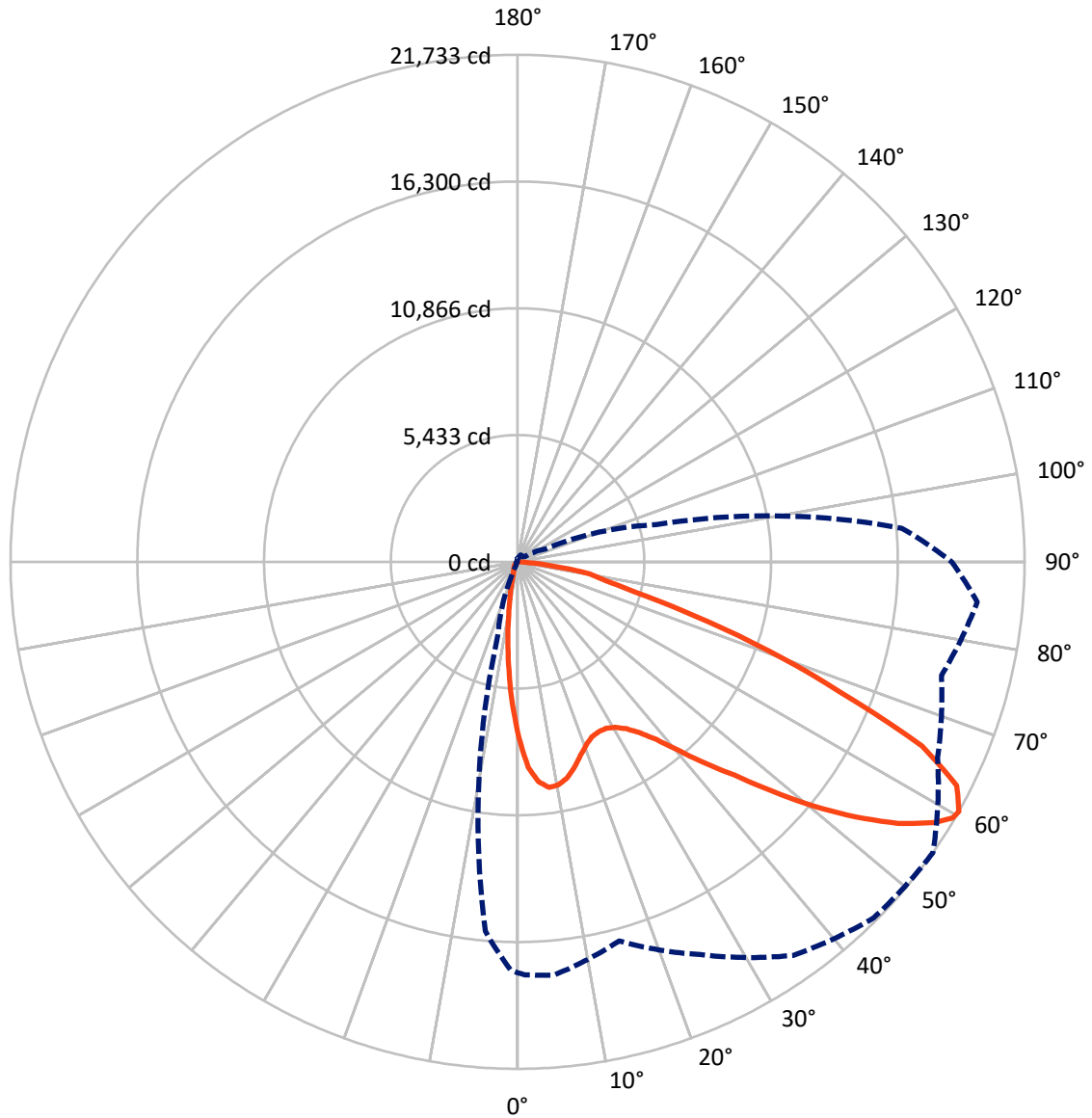
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P648546
CATALOG NUMBER: GALN-SA7B-835-U-SLL-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA7B-835-U-SLL-HSS

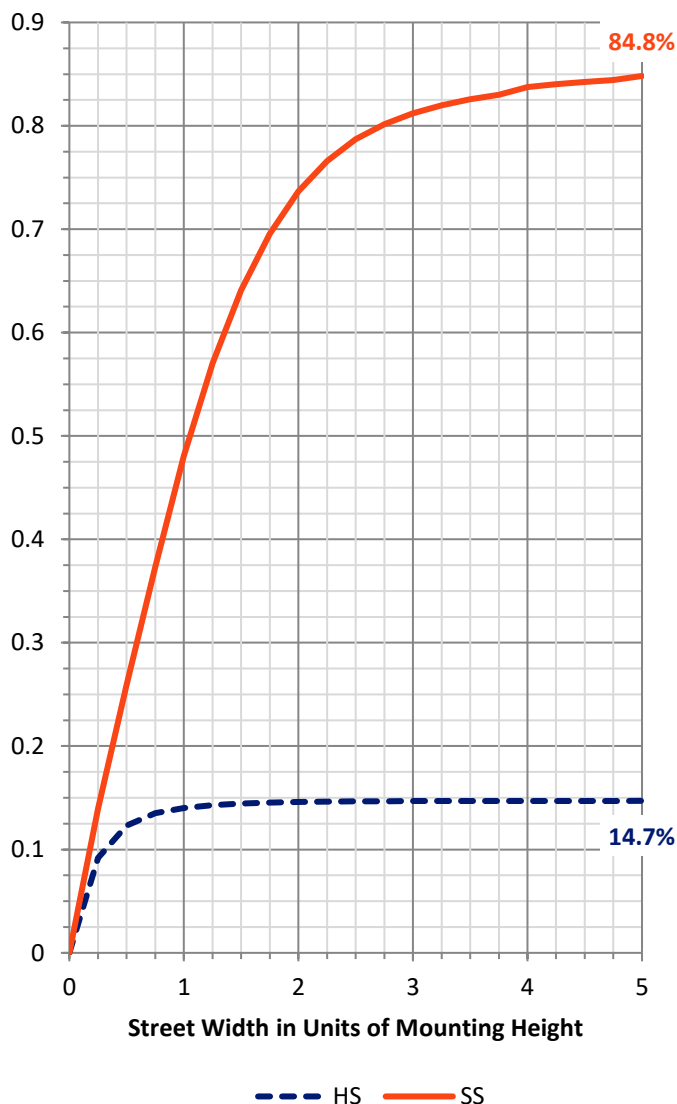
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3307.5	0.0	3307.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	18979.0	0.0	18979.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	22286.5	0.0	22286.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.8	2.5
10°-20°	1100.4	4.9
20°-30°	1628.8	7.3
30°-40°	2427.9	10.9
40°-50°	3555.7	16.0
50°-60°	5133.3	23.0
60°-70°	5400.0	24.2
70°-80°	2221.4	10.0
80°-90°	260.2	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°	22286.5	100.0
0°-180°	22286.5	100.0

Coefficient of Utilization



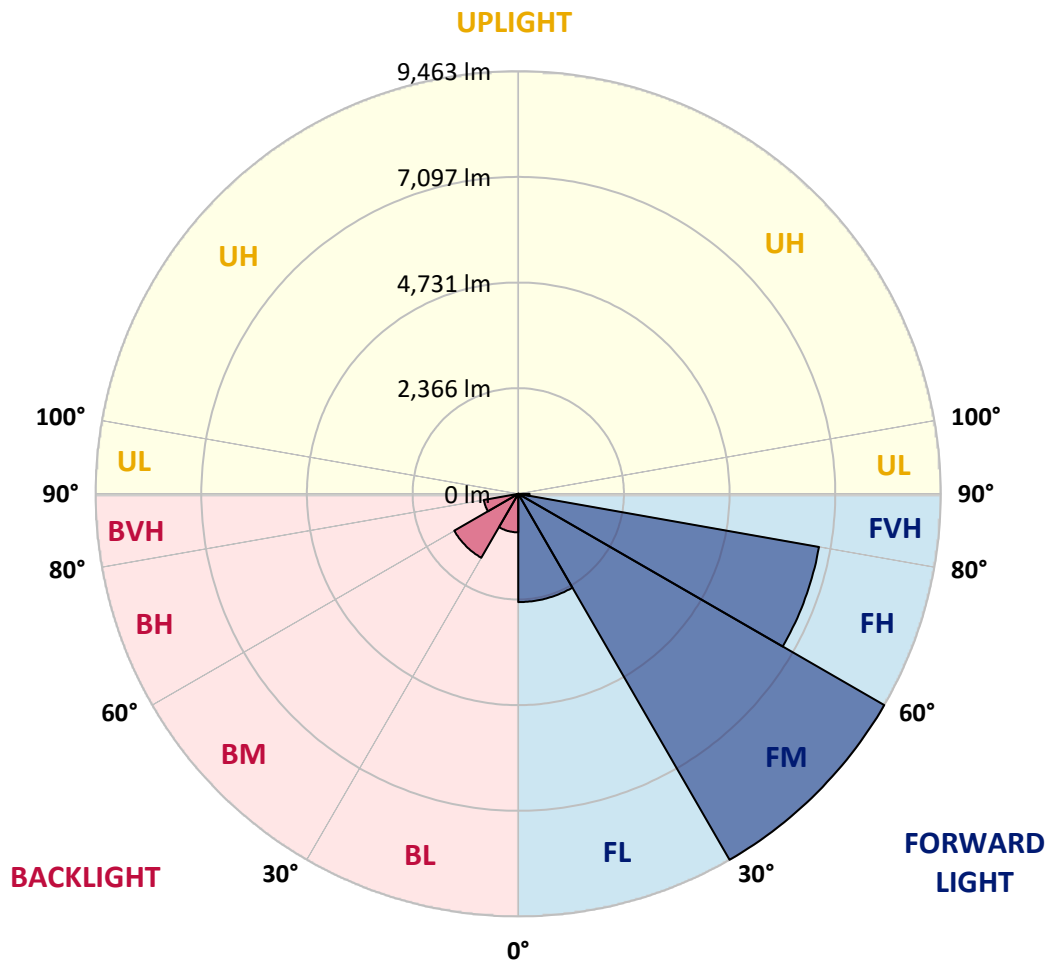
REPORT NUMBER: P648546
 CATALOG NUMBER: GALN-SA7B-835-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2425.1	10.9			
FM (30°-60°)	9462.9	42.5			
FH (60°-80°)	6838.5	30.7			G3/7500
FVH (80°-90°)	252.5	1.1			G3/500
BL (0°-30°)	862.9	3.9	B2/1000		
BM (30°-60°)	1654.1	7.4	B2/2500		
BH (60°-80°)	782.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	7.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P648546

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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2
2.5°	8244.4	8230.6	8352.4	8551.4	8752.1	8856.7	8836.2	8827.5	8661.2	8539.4	8283.8
5°	8227.2	8297.5	8515.4	9054.0	9462.3	9659.6	9717.9	9472.6	9148.3	8678.3	8098.5
7.5°	7734.9	7822.3	8177.4	9019.7	9745.3	10174.2	10158.7	9765.9	9096.9	8369.6	7542.7
10°	7124.1	7227.1	7644.0	8666.3	9608.1	10174.2	10205.1	9707.6	8875.6	7942.4	7072.7
12.5°	6693.6	6815.4	7276.8	8337.0	9254.7	9812.2	9848.3	9488.0	8709.2	7777.8	6817.1
15°	6547.8	6662.7	7131.0	8170.6	8879.1	9179.3	9170.7	9132.9	8644.0	7817.2	6830.8
17.5°	6798.2	6892.6	7421.0	8246.1	8527.4	8496.5	8541.1	8722.9	8657.8	8148.3	7263.1
20°	7444.9	7541.0	8108.8	8477.6	8258.1	8062.5	8083.1	8386.7	8784.7	8771.0	7939.0
22.5°	8335.3	8498.2	9012.9	8927.1	8222.0	7793.2	7750.3	8144.8	9000.8	9488.0	8851.6
25°	9462.3	9627.0	10028.4	9644.1	8398.7	7729.7	7690.2	8071.1	9263.3	10187.9	9879.1
27.5°	10409.2	10534.4	10934.1	10342.3	8659.4	7757.2	7692.0	8081.3	9476.0	10783.2	10745.4
30°	11167.5	11260.1	11495.1	10668.2	8884.2	7877.2	7801.7	8232.3	9570.4	11073.1	11447.1
32.5°	11778.1	11934.3	12008.0	11016.5	9206.7	8103.7	7975.0	8522.3	9800.3	11431.6	12182.9
35°	12476.3	12656.4	12562.1	11349.3	9632.2	8457.0	8299.3	8992.3	10148.5	11762.7	13037.3
37.5°	13361.4	13569.0	13200.2	11699.2	10081.6	8988.8	8915.1	9652.7	10676.8	12236.1	13953.3
40°	14277.5	14397.6	13819.5	12124.6	10633.9	9762.5	9832.8	10633.9	11368.1	12803.9	14927.7
42.5°	14992.8	15106.0	14455.9	12481.4	11198.3	10680.3	10973.6	11817.6	12160.6	13385.5	15655.0
45°	15540.0	15636.1	14896.7	12870.9	11959.9	12009.7	12563.8	13037.3	12954.9	13740.6	16215.9
47.5°	15965.4	16047.8	15236.4	13289.4	13100.7	13635.9	14483.3	14684.1	13778.3	14124.9	16723.7
50°	16140.4	16164.5	15342.7	13822.9	14395.8	15708.2	16591.6	16469.8	14721.8	14552.0	17264.1
52.5°	16368.6	16363.4	15646.4	14330.7	15613.8	17560.8	18442.5	18166.4	15788.8	15191.8	17871.3
55°	16967.3	16974.1	16296.6	15051.1	16651.7	19056.7	20000.2	19799.4	16914.1	16272.5	18579.8
57.5°	17694.6	17720.3	17221.1	15893.4	17643.2	20140.8	21163.2	21086.0	18435.7	17475.1	19248.8
59°	17789.0	17840.4	17658.6	16486.9	18231.5	20473.6	21561.2	21636.6	19250.5	18267.5	19610.8
60°	17617.4	17703.2	17785.5	16823.1	18576.4	20593.7	21585.2	21732.7	19862.9	18806.2	19775.4
62.5°	16869.5	17005.0	17418.5	17857.6	19006.9	20219.7	20818.4	21127.2	20621.2	20221.4	19790.9
65°	15890.0	15960.3	16557.3	18041.1	18171.5	18473.4	18658.7	19054.9	19710.2	20767.0	19082.4
67.5°	14284.3	14491.9	15222.7	16975.8	15706.4	15349.6	15303.3	14908.8	16610.5	19466.6	17336.1
70°	11800.4	11893.1	12793.7	13917.3	11853.6	11304.6	11524.2	11376.7	12876.0	16758.0	13953.3
72.5°	8923.6	9132.9	10012.9	11093.6	8065.9	7354.0	7959.6	7904.7	9671.5	13467.8	9585.8
75°	6348.8	6484.3	7606.2	8681.7	5648.9	4786.0	5003.9	5208.0	6751.9	10633.9	5664.3
77.5°	4362.3	4479.0	5321.3	5741.5	4120.5	3947.2	3611.0	3808.3	4424.1	6309.3	3082.6
80°	2631.4	2626.3	3180.4	3283.4	2869.9	3333.1	2796.2	3139.2	2674.3	2700.1	1193.9
82.5°	1708.6	1691.4	1945.3	2120.3	1597.1	1679.4	1127.1	1624.5	1742.9	753.1	377.4
85°	765.1	797.6	934.9	1233.4	699.9	372.2	229.9	499.2	742.8	379.1	0.0
87.5°	78.9	61.8	164.7	300.2	96.1	10.3	34.3	17.1	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°	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2
2.5°	8165.4	8065.9	7769.2	7491.3	7252.9	6961.2	6772.5	6475.7	6295.6	6240.7	6249.3
5°	7837.8	7551.3	6986.9	6535.8	6033.2	5746.7	5310.9	4892.4	4666.0	4581.9	4544.1
7.5°	7151.6	6844.5	6163.5	5455.1	4916.4	4413.8	4089.6	3720.7	3468.6	3261.0	3225.0
10°	6642.1	6239.0	5395.0	4633.4	4207.9	3830.5	3506.4	3137.5	2840.7	2604.0	2538.8
12.5°	6336.8	5885.7	4943.9	4305.7	3902.6	3514.9	3092.9	2665.8	2362.2	2106.5	1988.2
15°	6281.9	5758.7	4816.9	4070.7	3573.2	3104.9	2544.0	2082.5	1770.3	1528.4	1454.7
17.5°	6613.0	5986.8	4798.1	3825.4	3142.6	2478.8	1895.6	1513.0	1161.3	1025.8	972.6
20°	7203.1	6390.0	4796.3	3540.6	2700.1	1909.3	1331.2	986.3	844.0	778.8	747.9
22.5°	8007.6	6938.9	4887.3	3295.3	2240.3	1408.4	950.3	785.7	703.3	650.1	638.1
25°	8990.6	7752.0	5110.2	3128.9	1888.7	1104.7	783.9	672.4	603.8	579.8	569.6
27.5°	9863.7	8530.8	5355.6	2957.4	1636.5	977.8	727.3	615.8	560.9	542.1	526.6
30°	10616.8	9237.6	5474.0	2730.9	1434.1	895.4	737.7	658.7	586.7	530.1	504.3
32.5°	11244.6	9779.7	5551.1	2525.1	1262.6	732.5	583.3	509.5	476.9	456.3	439.2
35°	12030.2	10366.3	5504.8	2408.4	1175.0	667.3	531.8	439.2	384.2	343.1	326.0
37.5°	12853.6	10953.0	5424.2	2312.4	1135.6	619.3	506.1	416.9	356.8	313.9	291.6
40°	13706.3	11496.8	5329.8	2223.2	1099.6	588.4	490.6	398.0	337.9	291.6	267.6
42.5°	14486.8	12026.9	5292.1	2164.8	1041.2	593.5	478.6	389.4	319.1	271.1	250.5
45°	15118.0	12529.5	5343.6	2134.0	977.8	585.0	482.0	379.1	303.6	257.3	236.7
47.5°	15792.2	13239.7	5510.0	2103.1	916.0	543.8	507.8	377.4	296.8	248.8	226.4
50°	16576.2	14148.8	5890.7	2027.7	840.6	499.2	540.3	375.7	288.2	238.4	216.1
52.5°	17620.9	15181.5	6283.6	1895.6	730.8	456.3	516.3	370.5	271.1	226.4	204.1
55°	18559.2	16269.1	6616.4	1739.4	591.8	394.6	464.9	348.2	241.9	205.9	185.3
57.5°	18946.9	16883.2	6606.1	1523.3	473.5	346.5	382.6	319.1	211.0	181.8	164.7
59°	18804.5	16806.0	6384.8	1363.8	432.3	320.8	317.3	315.6	197.2	164.7	151.0
60°	18603.8	16524.7	6146.4	1284.8	406.5	303.6	291.6	312.2	185.3	154.4	140.6
62.5°	17835.3	15358.2	5355.6	1151.1	372.2	257.3	233.3	264.2	164.7	133.8	121.8
65°	16722.0	13565.6	4533.9	1113.3	362.0	212.7	193.9	188.7	140.6	113.2	103.0
67.5°	14550.3	11479.6	3672.7	1087.6	365.3	178.4	169.8	142.3	116.7	94.4	87.5
70°	11649.5	8951.1	3007.1	1058.4	368.8	145.8	142.3	113.2	94.4	78.9	72.0
72.5°	7077.9	5305.8	2367.3	919.5	358.5	116.7	126.9	85.7	68.6	56.6	53.2
75°	4376.0	3631.6	1468.4	715.3	236.7	85.7	89.2	53.2	46.4	36.0	36.0
77.5°	2535.4	2293.5	524.9	257.3	104.6	51.4	39.5	27.5	25.8	15.4	15.4
80°	1051.6	842.3	181.8	87.5	56.6	24.0	8.6	1.7	0.0	0.0	0.0
82.5°	307.1	272.7	49.7	39.5	17.1	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°	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2
2.5°	6103.5	6046.9	6021.1	6108.7	6028.0	6131.0	6052.0	6086.3	6187.5	6232.1	6347.1
5°	4568.2	4509.8	4482.4	4614.5	4607.6	4672.8	4666.0	4726.0	4777.5	4662.5	4780.9
7.5°	3182.1	3142.6	3207.9	3310.8	3420.5	3384.5	3384.5	3303.9	3331.4	3314.2	3309.0
10°	2420.5	2285.0	2250.7	2247.2	2288.4	2296.9	2250.7	2139.2	2180.3	2192.3	2264.4
12.5°	1904.1	1799.5	1639.9	1567.9	1549.0	1564.4	1411.8	1314.0	1360.3	1332.9	1403.2
15°	1365.5	1279.7	1185.4	1104.7	1082.4	1051.6	885.2	768.5	754.8	759.9	772.0
17.5°	974.4	916.0	916.0	830.3	783.9	691.3	607.3	555.8	550.7	555.8	564.4
20°	718.8	687.9	684.4	662.2	610.7	549.0	490.6	480.3	476.9	485.5	488.9
22.5°	619.3	586.7	559.2	557.5	509.5	458.1	430.6	416.9	418.6	422.0	430.6
25°	554.1	519.8	490.6	473.5	439.2	403.1	377.4	370.5	370.5	375.7	377.4
27.5°	507.8	464.9	439.2	415.1	384.2	353.4	331.1	326.0	322.5	326.0	334.5
30°	475.2	432.3	399.7	363.7	339.7	310.5	291.6	284.8	283.1	284.8	291.6
32.5°	406.5	380.9	355.1	322.5	293.3	274.4	253.8	241.9	241.9	245.3	252.2
35°	307.1	293.3	291.6	283.1	259.0	238.4	214.5	202.4	202.4	209.3	212.7
37.5°	271.1	245.3	241.9	238.4	228.2	200.7	178.4	168.1	166.4	171.6	178.4
40°	247.0	217.8	202.4	199.0	200.7	169.8	145.8	135.5	135.5	137.3	144.1
42.5°	228.2	193.9	166.4	162.9	169.8	142.3	118.4	108.1	108.1	108.1	116.7
45°	212.7	173.3	140.6	123.5	133.8	116.7	96.1	85.7	82.4	85.7	89.2
47.5°	202.4	157.9	123.5	99.5	99.5	92.6	77.2	65.2	61.8	63.5	68.6
50°	193.9	144.1	104.6	80.6	72.0	73.8	58.3	49.7	46.4	46.4	51.4
52.5°	180.1	130.4	90.9	68.6	54.9	49.7	42.9	36.0	34.3	36.0	39.5
55°	162.9	118.4	78.9	56.6	42.9	34.3	30.9	25.8	24.0	25.8	30.9
57.5°	144.1	99.5	63.5	44.6	29.1	22.3	20.6	17.1	13.7	15.4	18.9
59°	132.1	89.2	54.9	36.0	22.3	15.4	15.4	12.0	8.6	10.3	15.4
60°	126.9	82.4	46.4	30.9	18.9	12.0	12.0	8.6	5.2	6.9	12.0
62.5°	108.1	68.6	36.0	18.9	8.6	1.7	5.2	1.7	0.0	1.7	5.2
65°	90.9	54.9	24.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	1.7
67.5°	75.5	41.2	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	60.1	27.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	41.2	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	25.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.3	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: P648546

CATALOG NUMBER: GALN-SA7B-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2	7546.2
2.5°	6354.0	6599.3	6750.2	7034.9	7326.6	7551.3	7832.7	8084.8	8189.5	8244.4
5°	4901.0	5242.3	5532.3	5966.2	6369.4	6860.0	7357.5	7944.2	8168.9	8227.2
7.5°	3439.4	3787.7	4091.3	4593.9	5168.6	5825.6	6570.1	7314.6	7642.2	7734.9
10°	2483.9	2856.1	3226.7	3729.4	4266.3	4978.2	5753.6	6674.7	7052.1	7124.1
12.5°	1567.9	1967.6	2569.7	3190.7	3758.5	4331.5	5142.8	6144.7	6561.5	6693.6
15°	909.1	1207.6	1662.2	2471.9	3194.1	3952.3	4837.5	5945.6	6412.2	6547.8
17.5°	608.9	711.9	1024.1	1643.4	2597.1	3602.4	4760.3	6108.7	6625.0	6798.2
20°	512.9	559.2	669.0	1001.8	2000.2	3290.2	4780.9	6551.2	7228.8	7444.9
22.5°	451.2	494.1	564.4	720.5	1396.3	2902.5	4878.6	7184.2	8059.1	8335.3
25°	398.0	440.8	502.6	597.0	938.3	2454.8	5093.1	8110.5	9158.7	9462.3
27.5°	353.4	392.8	446.0	526.6	722.2	1955.6	5283.5	9012.9	10162.2	10409.2
30°	312.2	344.8	396.3	458.1	600.4	1507.8	5379.6	9801.9	10892.9	11167.5
32.5°	271.1	301.9	351.6	401.4	494.1	1149.4	5312.7	10381.7	11603.1	11778.1
35°	231.6	264.2	305.4	351.6	427.1	928.0	4978.2	11033.6	12339.1	12476.3
37.5°	199.0	226.4	269.4	305.4	385.9	742.8	4573.3	11620.3	13164.2	13361.4
40°	168.1	195.6	238.4	271.1	355.1	585.0	4207.9	12272.1	14033.9	14277.5
42.5°	137.3	169.8	207.6	260.7	305.4	446.0	3765.4	12800.5	14687.4	14992.8
45°	109.8	145.8	187.0	259.0	265.9	339.7	3338.2	13212.2	15265.6	15540.0
47.5°	87.5	123.5	180.1	241.9	217.8	269.4	3094.7	13642.8	15745.9	15965.4
50°	70.3	103.0	188.7	212.7	181.8	228.2	3087.8	14123.1	15994.7	16140.4
52.5°	56.6	84.1	159.5	162.9	154.4	200.7	3273.0	14663.5	16248.5	16368.6
55°	48.0	70.3	104.6	120.1	139.0	181.8	3412.0	15495.4	16854.1	16967.3
57.5°	37.7	60.1	80.6	96.1	123.5	166.4	3430.9	16137.0	17620.9	17694.6
59°	32.6	51.4	72.0	85.7	113.2	156.1	3353.7	16176.5	17670.6	17789.0
60°	27.5	46.4	63.5	80.6	104.6	147.5	3269.6	15890.0	17485.3	17617.4
62.5°	20.6	36.0	46.4	65.2	85.7	126.9	2871.7	14889.9	16776.9	16869.5
65°	13.7	25.8	34.3	48.0	66.9	109.8	2339.8	13593.0	15682.4	15890.0
67.5°	8.6	18.9	27.5	36.0	54.9	92.6	1667.4	11656.3	14150.5	14284.3
70°	5.2	12.0	20.6	29.1	42.9	73.8	989.8	9213.6	11773.0	11800.4
72.5°	3.4	8.6	13.7	20.6	34.3	66.9	480.3	6005.7	8596.0	8923.6
75°	1.7	5.2	8.6	15.4	27.5	54.9	229.9	4012.4	6254.4	6348.8
77.5°	0.0	1.7	5.2	10.3	20.6	42.9	133.8	2634.9	4264.5	4362.3
80°	0.0	0.0	3.4	8.6	15.4	27.5	80.6	1554.2	2583.4	2631.4
82.5°	0.0	0.0	1.7	6.9	10.3	20.6	41.2	682.8	1691.4	1708.6
85°	0.0	0.0	1.7	6.9	8.6	13.7	15.4	92.6	751.4	765.1
87.5°	0.0	0.0	1.7	8.6	8.6	8.6	8.6	5.2	63.5	78.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)