

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: P647336

Luminaire Tested: **GALN-SA3D-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647336
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-SA3D-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA 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: 12986.1 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

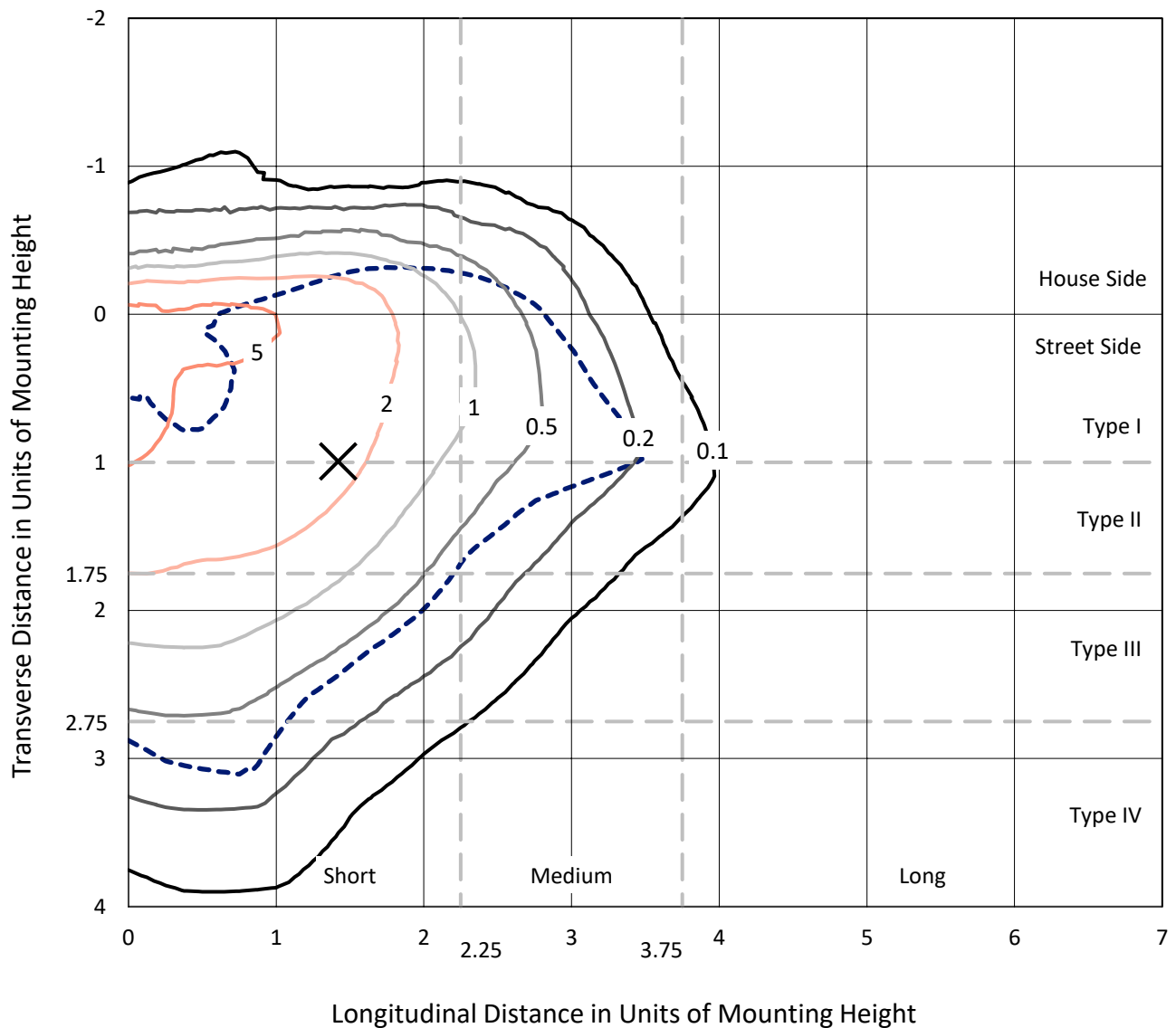
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

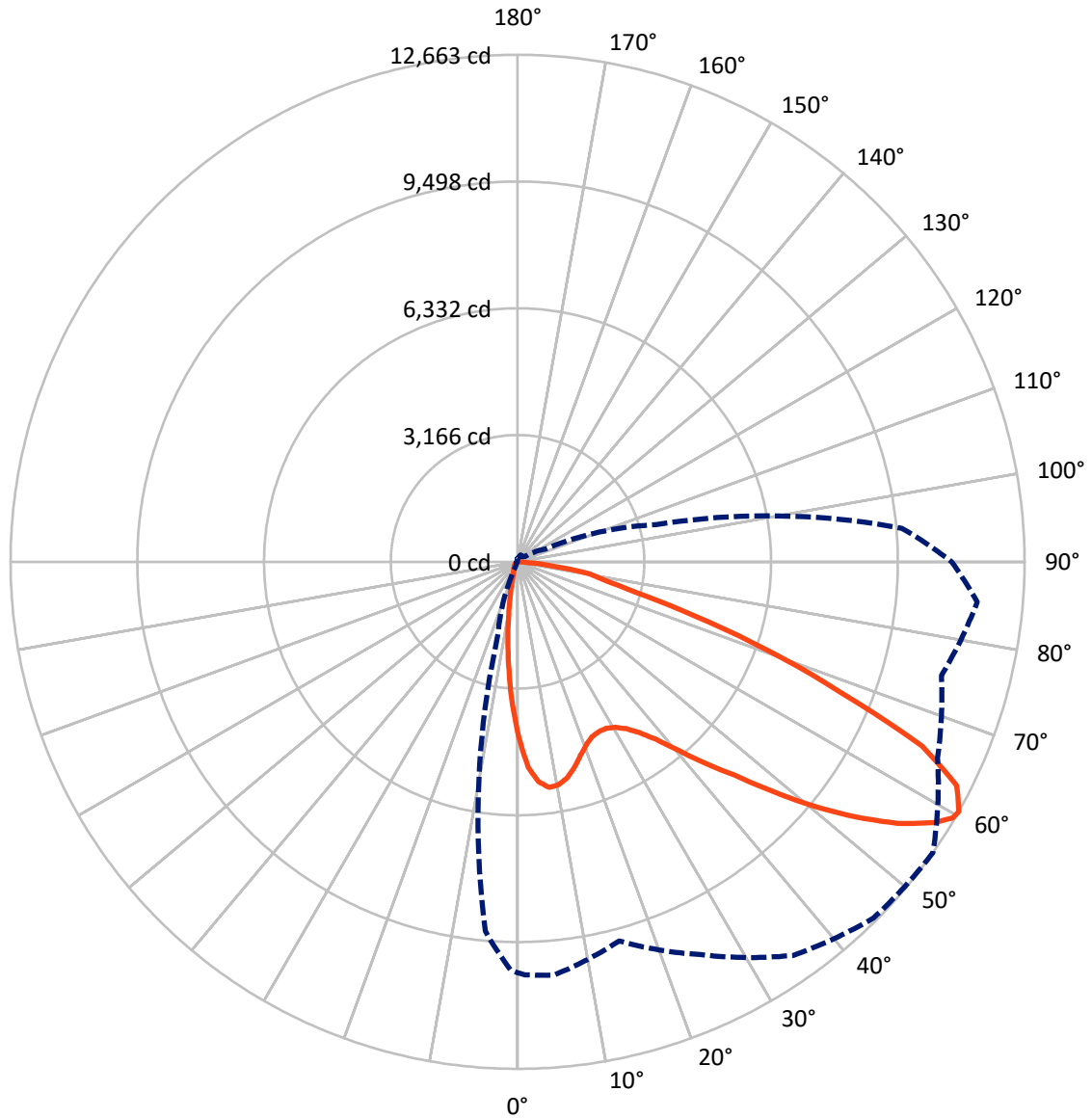
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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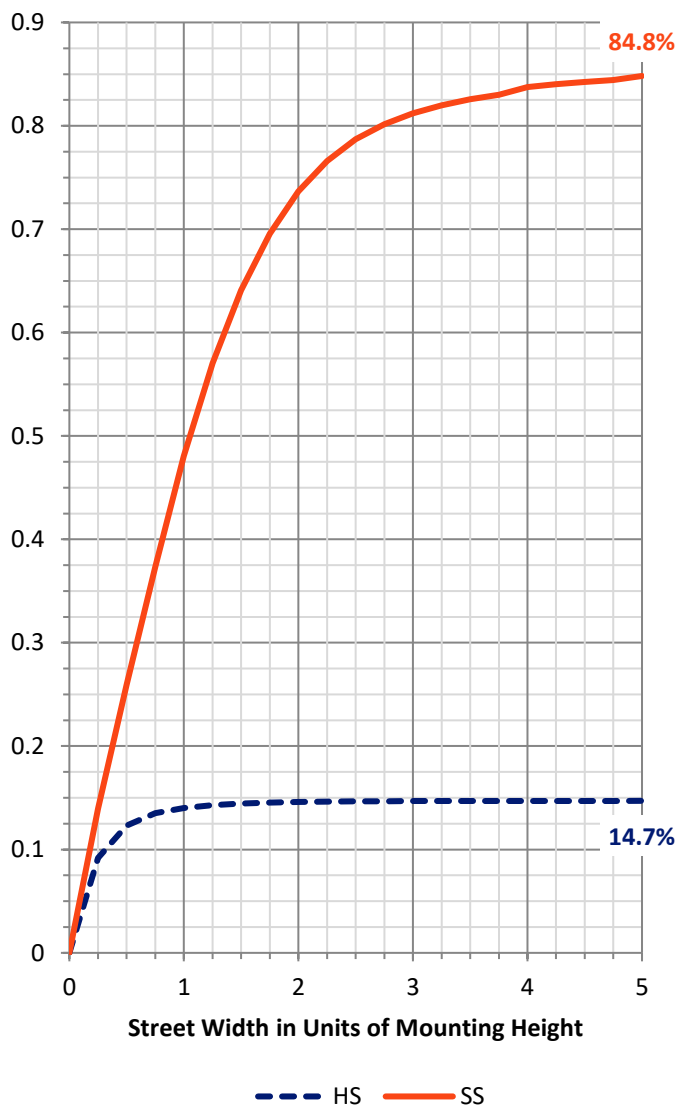
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1927.2	0.0	1927.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	11058.8	0.0	11058.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	12986.1	0.0	12986.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.6	2.5
10°-20°	641.2	4.9
20°-30°	949.1	7.3
30°-40°	1414.7	10.9
40°-50°	2071.9	16.0
50°-60°	2991.1	23.0
60°-70°	3146.5	24.2
70°-80°	1294.4	10.0
80°-90°	151.6	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°	12986.1	100.0
0°-180°	12986.1	100.0

Coefficient of Utilization



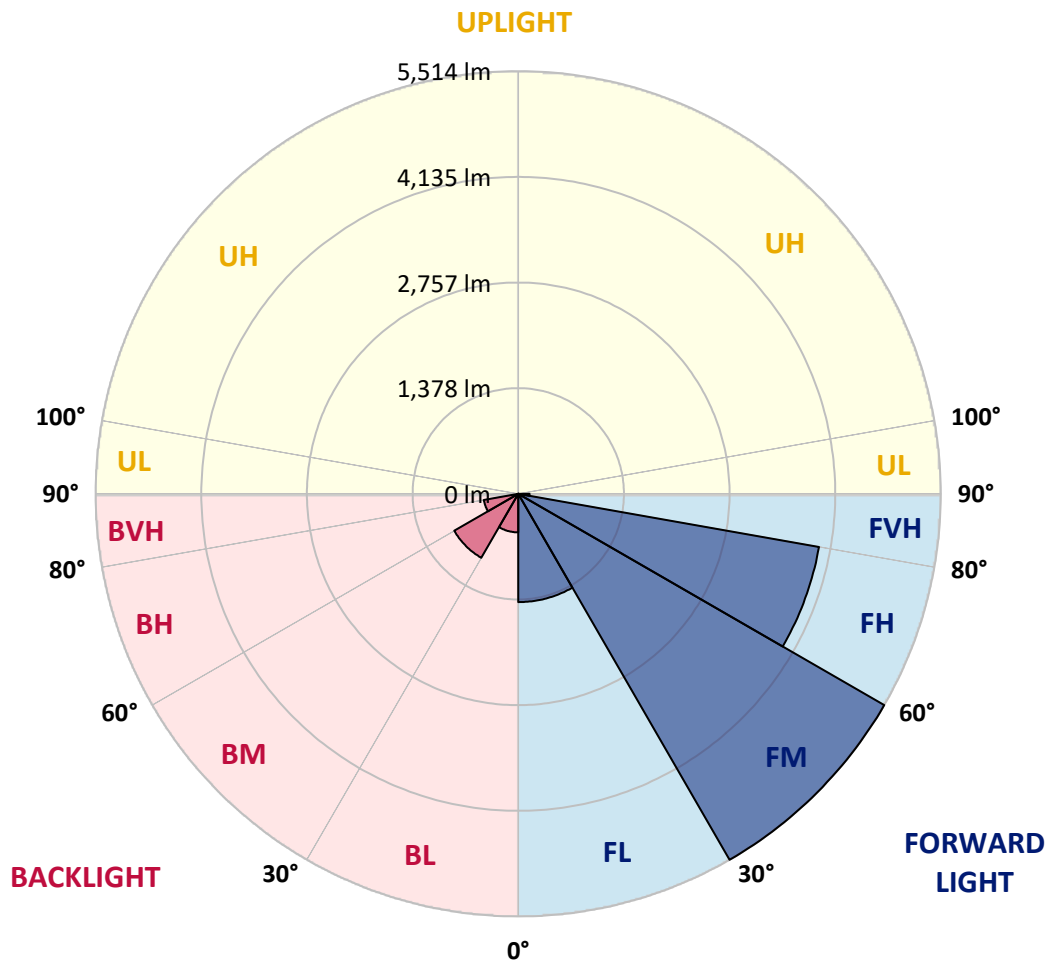
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.1	10.9			
FM (30°-60°)	5513.9	42.5			
FH (60°-80°)	3984.7	30.7			G2/5000
FVH (80°-90°)	147.1	1.1			G2/225
BL (0°-30°)	502.8	3.9	B2/1000		
BM (30°-60°)	963.8	7.4	B1/1000		
BH (60°-80°)	456.2	3.5	B1/500		G1/500
BVH (80°-90°)	4.5	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0
2.5°	4803.9	4795.9	4866.8	4982.8	5099.8	5160.7	5148.7	5143.7	5046.7	4975.8	4826.9
5°	4793.8	4834.9	4961.8	5275.6	5513.6	5628.5	5662.5	5519.5	5330.7	5056.8	4718.9
7.5°	4507.0	4558.0	4764.9	5255.7	5678.5	5928.3	5919.4	5690.5	5300.7	4876.8	4395.1
10°	4151.2	4211.1	4454.0	5049.7	5598.5	5928.3	5946.3	5656.5	5171.7	4627.9	4121.2
12.5°	3900.3	3971.2	4240.1	4857.8	5392.6	5717.5	5738.5	5528.5	5074.8	4532.0	3972.2
15°	3815.3	3882.3	4155.1	4760.9	5173.7	5348.6	5343.6	5321.7	5036.7	4554.9	3980.2
17.5°	3961.3	4016.2	4324.0	4804.9	4968.8	4950.8	4976.7	5082.8	5044.8	4747.9	4232.1
20°	4338.1	4394.0	4724.9	4939.8	4811.8	4697.9	4709.9	4886.9	5118.7	5110.7	4626.0
22.5°	4856.9	4951.8	5251.7	5201.7	4790.9	4541.0	4516.0	4745.9	5244.7	5528.5	5157.7
25°	5513.6	5609.5	5843.4	5619.5	4893.8	4504.0	4481.0	4702.9	5397.6	5936.4	5756.5
27.5°	6065.3	6138.3	6371.2	6026.3	5045.7	4520.0	4482.0	4708.9	5521.6	6283.2	6261.2
30°	6507.1	6561.1	6698.0	6216.2	5176.7	4589.9	4545.9	4796.9	5576.5	6452.2	6670.1
32.5°	6862.9	6953.9	6996.9	6419.1	5364.6	4721.9	4646.9	4965.8	5710.4	6661.1	7098.8
35°	7269.8	7374.7	7319.7	6613.1	5612.5	4927.8	4835.8	5239.7	5913.4	6853.9	7596.6
37.5°	7785.5	7906.5	7691.6	6817.0	5874.4	5237.6	5194.7	5624.5	6221.2	7129.8	8130.4
40°	8319.3	8389.3	8052.5	7064.9	6196.3	5688.5	5729.4	6196.3	6624.0	7460.7	8698.1
42.5°	8736.1	8802.1	8423.3	7272.7	6525.1	6223.2	6394.1	6885.9	7085.8	7799.5	9122.0
45°	9055.0	9110.9	8680.1	7499.7	6968.9	6997.9	7320.7	7596.6	7548.7	8006.4	9448.8
47.5°	9302.8	9350.8	8878.0	7743.6	7633.6	7945.5	8439.3	8556.2	8028.4	8230.3	9744.7
50°	9404.8	9418.8	8940.0	8054.4	8388.3	9153.0	9667.7	9596.8	8578.2	8479.3	10059.5
52.5°	9537.7	9534.7	9116.9	8350.3	9097.9	10232.5	10746.2	10585.3	9199.9	8852.0	10413.4
55°	9886.6	9890.6	9495.8	8770.1	9702.7	11104.0	11653.8	11536.9	9855.6	9481.8	10826.1
57.5°	10310.4	10325.4	10034.5	9260.9	10280.4	11735.8	12331.5	12286.5	10742.2	10182.4	11216.0
59°	10365.4	10395.3	10289.4	9606.7	10623.3	11929.7	12563.4	12607.4	11217.0	10644.3	11426.9
60°	10265.4	10315.4	10363.4	9802.6	10824.2	11999.6	12577.4	12663.4	11573.8	10958.1	11522.9
62.5°	9829.6	9908.6	10149.5	10405.4	11075.1	11781.7	12130.6	12310.5	12015.7	11782.7	11531.9
65°	9258.9	9299.8	9647.7	10512.3	10588.3	10764.2	10872.2	11103.0	11484.9	12100.6	11119.1
67.5°	8323.3	8444.3	8870.1	9891.6	9151.9	8944.1	8917.0	8687.2	9678.7	11342.9	10101.5
70°	6875.9	6929.9	7454.7	8109.4	6906.9	6587.1	6715.0	6629.0	7502.6	9764.6	8130.4
72.5°	5199.7	5321.7	5834.4	6464.1	4699.9	4285.1	4637.9	4605.9	5635.5	7847.5	5585.5
75°	3699.4	3778.3	4432.0	5058.7	3291.5	2788.7	2915.7	3034.7	3934.3	6196.3	3300.5
77.5°	2541.9	2609.8	3100.6	3345.5	2400.9	2300.0	2104.1	2219.0	2577.9	3676.3	1796.2
80°	1533.3	1530.3	1853.2	1913.2	1672.3	1942.2	1629.3	1829.2	1558.3	1573.3	695.7
82.5°	995.6	985.6	1133.5	1235.4	930.6	978.6	656.7	946.6	1015.6	438.8	219.9
85°	445.8	464.8	544.7	718.7	407.8	216.9	134.0	290.9	432.8	220.9	0.0
87.5°	46.0	36.0	96.0	174.9	56.0	6.0	20.0	10.0	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°	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0
2.5°	4757.9	4699.9	4527.0	4365.1	4226.1	4056.2	3946.2	3773.4	3668.4	3636.4	3641.3
5°	4567.0	4400.1	4071.2	3808.3	3515.4	3348.5	3094.7	2850.7	2718.8	2669.8	2647.8
7.5°	4167.1	3988.2	3591.4	3178.6	2864.8	2571.8	2382.9	2168.0	2021.1	1900.2	1879.2
10°	3870.3	3635.4	3143.6	2699.8	2451.9	2232.0	2043.1	1828.1	1655.3	1517.3	1479.3
12.5°	3692.4	3429.5	2880.7	2508.9	2274.0	2048.1	1802.2	1553.3	1376.4	1227.4	1158.4
15°	3660.4	3355.5	2806.7	2371.9	2082.1	1809.2	1482.4	1213.5	1031.5	890.6	847.6
17.5°	3853.3	3488.4	2795.8	2229.0	1831.2	1444.3	1104.5	881.6	676.7	597.7	566.7
20°	4197.1	3723.3	2794.8	2063.0	1573.3	1112.5	775.6	574.7	491.8	453.8	435.8
22.5°	4665.9	4043.2	2847.8	1920.2	1305.4	820.7	553.7	457.8	409.8	378.8	371.8
25°	5238.7	4517.0	2977.7	1823.2	1100.5	643.7	456.8	391.8	351.9	337.9	331.8
27.5°	5747.5	4970.8	3120.6	1723.2	953.5	569.7	423.8	358.8	326.8	315.9	306.9
30°	6186.2	5382.6	3189.6	1591.3	835.6	521.8	429.8	383.8	341.9	308.9	293.9
32.5°	6552.1	5698.4	3234.6	1471.3	735.7	426.8	339.8	296.8	277.9	265.9	255.9
35°	7009.9	6040.3	3207.6	1403.4	684.7	388.8	309.8	255.9	223.9	199.9	189.9
37.5°	7489.6	6382.2	3160.6	1347.4	661.7	360.8	294.9	242.9	207.9	182.9	169.9
40°	7986.4	6699.0	3105.6	1295.4	640.7	342.9	285.9	231.9	196.9	169.9	155.9
42.5°	8441.2	7007.8	3083.6	1261.4	606.7	345.9	278.9	226.9	185.9	157.9	146.0
45°	8809.1	7300.8	3113.6	1243.5	569.7	340.8	280.9	220.9	177.0	149.9	138.0
47.5°	9201.9	7714.6	3210.5	1225.5	533.8	316.9	295.9	219.9	172.9	144.9	131.9
50°	9658.7	8244.4	3432.4	1181.5	489.8	290.9	314.8	218.9	168.0	138.9	125.9
52.5°	10267.4	8846.1	3661.4	1104.5	425.8	265.9	300.8	215.9	157.9	131.9	118.9
55°	10814.2	9479.8	3855.3	1013.5	344.8	229.9	270.9	202.9	140.9	120.0	108.0
57.5°	11040.1	9837.6	3849.3	887.6	275.9	201.9	222.9	185.9	122.9	105.9	96.0
59°	10957.1	9792.7	3720.3	794.7	251.9	186.9	184.9	183.9	114.9	96.0	87.9
60°	10840.2	9628.7	3581.4	748.7	236.9	177.0	169.9	181.9	108.0	90.0	82.0
62.5°	10392.4	8949.0	3120.6	670.7	216.9	149.9	135.9	153.9	96.0	78.0	70.9
65°	9743.7	7904.5	2641.8	648.7	210.9	123.9	113.0	109.9	82.0	66.0	60.0
67.5°	8478.2	6689.0	2140.0	633.7	212.9	104.0	99.0	83.0	68.0	55.0	51.0
70°	6788.0	5215.6	1752.2	616.7	214.9	85.0	83.0	66.0	55.0	46.0	42.0
72.5°	4124.1	3091.6	1379.4	535.7	208.9	68.0	74.0	50.0	40.0	33.0	31.0
75°	2549.8	2116.1	855.6	416.8	138.0	50.0	52.0	31.0	27.0	21.0	21.0
77.5°	1477.4	1336.4	305.8	149.9	61.0	30.0	23.0	16.0	15.0	9.0	9.0
80°	612.7	490.8	105.9	51.0	33.0	14.0	5.0	1.0	0.0	0.0	0.0
82.5°	178.9	158.9	29.0	23.0	10.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0
2.5°	3556.4	3523.4	3508.5	3559.4	3512.5	3572.4	3526.4	3546.4	3605.4	3631.4	3698.3
5°	2661.8	2627.8	2611.9	2688.8	2684.8	2722.8	2718.8	2753.8	2783.7	2716.8	2785.8
7.5°	1854.1	1831.2	1869.2	1929.2	1993.1	1972.1	1972.1	1925.2	1941.1	1931.1	1928.1
10°	1410.3	1331.4	1311.4	1309.4	1333.4	1338.4	1311.4	1246.5	1270.4	1277.5	1319.4
12.5°	1109.5	1048.5	955.6	913.6	902.6	911.6	822.6	765.7	792.6	776.7	817.6
15°	795.7	745.7	690.7	643.7	630.7	612.7	515.8	447.8	439.8	442.8	449.8
17.5°	567.8	533.8	533.8	483.8	456.8	402.9	353.8	323.8	320.9	323.8	328.9
20°	418.8	400.8	398.9	385.9	355.9	319.9	285.9	279.8	277.9	282.9	284.9
22.5°	360.8	341.9	325.9	324.9	296.8	266.8	250.9	242.9	243.9	245.9	250.9
25°	322.8	302.9	285.9	275.9	255.9	234.9	219.9	215.9	215.9	218.9	219.9
27.5°	295.9	270.9	255.9	241.9	223.9	205.9	192.9	189.9	187.9	189.9	194.9
30°	276.9	251.9	232.9	211.9	197.9	181.0	169.9	165.9	164.9	165.9	169.9
32.5°	236.9	221.9	206.9	187.9	170.9	160.0	147.9	140.9	140.9	142.9	147.0
35°	178.9	170.9	169.9	164.9	151.0	138.9	125.0	117.9	117.9	121.9	123.9
37.5°	157.9	142.9	140.9	138.9	133.0	117.0	104.0	98.0	96.9	100.0	104.0
40°	143.9	126.9	117.9	116.0	117.0	99.0	85.0	78.9	78.9	79.9	83.9
42.5°	133.0	113.0	96.9	95.0	99.0	83.0	69.0	63.0	63.0	63.0	68.0
45°	123.9	100.9	82.0	72.0	78.0	68.0	56.0	50.0	48.0	50.0	52.0
47.5°	117.9	91.9	72.0	57.9	57.9	53.9	44.9	38.0	36.0	37.0	40.0
50°	113.0	83.9	61.0	47.0	42.0	43.0	34.0	29.0	27.0	27.0	30.0
52.5°	104.9	76.0	53.0	40.0	32.0	29.0	25.0	21.0	20.0	21.0	23.0
55°	95.0	69.0	46.0	33.0	25.0	20.0	18.0	15.0	14.0	15.0	18.0
57.5°	83.9	57.9	37.0	26.0	17.0	13.0	12.0	10.0	8.0	9.0	11.0
59°	77.0	52.0	32.0	21.0	13.0	9.0	9.0	7.0	5.0	6.0	9.0
60°	74.0	48.0	27.0	18.0	11.0	7.0	7.0	5.0	3.0	4.0	7.0
62.5°	63.0	40.0	21.0	11.0	5.0	1.0	3.0	1.0	0.0	1.0	3.0
65°	53.0	32.0	14.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
67.5°	44.0	24.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	35.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	24.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.0	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: P647336

CATALOG NUMBER: GALN-SA3D-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0
2.5°	3702.3	3845.3	3933.2	4099.2	4269.1	4400.1	4564.0	4710.9	4771.8	4803.9
5°	2855.8	3054.6	3223.5	3476.4	3711.3	3997.2	4287.1	4628.9	4759.9	4793.8
7.5°	2004.1	2207.0	2383.9	2676.8	3011.7	3394.5	3828.3	4262.1	4453.0	4507.0
10°	1447.4	1664.3	1880.1	2173.1	2485.9	2900.7	3352.5	3889.2	4109.2	4151.2
12.5°	913.6	1146.5	1497.3	1859.2	2190.1	2523.8	2996.7	3580.4	3823.3	3900.3
15°	529.8	703.7	968.6	1440.3	1861.2	2303.0	2818.7	3464.5	3736.3	3815.3
17.5°	354.9	414.8	596.7	957.6	1513.3	2099.1	2773.8	3559.4	3860.3	3961.3
20°	298.9	325.9	389.9	583.7	1165.5	1917.2	2785.8	3817.3	4212.1	4338.1
22.5°	262.9	287.9	328.9	419.8	813.6	1691.3	2842.8	4186.2	4695.9	4856.9
25°	231.9	256.9	292.8	347.8	546.8	1430.4	2967.6	4725.9	5336.6	5513.6
27.5°	205.9	228.9	259.9	306.9	420.8	1139.5	3078.6	5251.7	5921.4	6065.3
30°	181.9	200.9	230.9	266.8	349.8	878.6	3134.6	5711.4	6347.2	6507.1
32.5°	157.9	175.9	204.9	233.9	287.9	669.7	3095.6	6049.3	6761.0	6862.9
35°	134.9	153.9	177.9	204.9	248.9	540.7	2900.7	6429.1	7189.8	7269.8
37.5°	116.0	131.9	156.9	177.9	224.9	432.8	2664.8	6771.0	7670.6	7785.5
40°	98.0	113.9	138.9	157.9	206.9	340.8	2451.9	7150.8	8177.3	8319.3
42.5°	79.9	99.0	121.0	151.9	177.9	259.9	2194.0	7458.7	8558.2	8736.1
45°	64.0	85.0	108.9	151.0	155.0	197.9	1945.1	7698.5	8895.0	9055.0
47.5°	51.0	72.0	104.9	140.9	126.9	156.9	1803.2	7949.5	9174.9	9302.8
50°	41.0	60.0	109.9	123.9	105.9	133.0	1799.2	8229.3	9319.8	9404.8
52.5°	33.0	49.0	92.9	95.0	90.0	117.0	1907.2	8544.2	9467.8	9537.7
55°	28.0	41.0	61.0	70.0	81.0	105.9	1988.1	9029.0	9820.6	9886.6
57.5°	22.0	35.0	47.0	56.0	72.0	96.9	1999.1	9402.8	10267.4	10310.4
59°	19.0	30.0	42.0	50.0	66.0	91.0	1954.1	9425.8	10296.4	10365.4
60°	16.0	27.0	37.0	47.0	61.0	86.0	1905.1	9258.9	10188.5	10265.4
62.5°	12.0	21.0	27.0	38.0	50.0	74.0	1673.3	8676.1	9775.7	9829.6
65°	8.0	15.0	20.0	28.0	39.0	64.0	1363.4	7920.4	9137.9	9258.9
67.5°	5.0	11.0	16.0	21.0	32.0	53.9	971.5	6792.0	8245.3	8323.3
70°	3.0	7.0	12.0	17.0	25.0	43.0	576.8	5368.6	6859.9	6875.9
72.5°	2.0	5.0	8.0	12.0	20.0	39.0	279.8	3499.5	5008.8	5199.7
75°	1.0	3.0	5.0	9.0	16.0	32.0	134.0	2338.0	3644.4	3699.4
77.5°	0.0	1.0	3.0	6.0	12.0	25.0	78.0	1535.3	2484.9	2541.9
80°	0.0	0.0	2.0	5.0	9.0	16.0	47.0	905.6	1505.3	1533.3
82.5°	0.0	0.0	1.0	4.0	6.0	12.0	24.0	397.8	985.6	995.6
85°	0.0	0.0	1.0	4.0	5.0	8.0	9.0	53.9	437.8	445.8
87.5°	0.0	0.0	1.0	5.0	5.0	5.0	5.0	3.0	37.0	46.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)