

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: P652339

Luminaire Tested: **GALN-SA4B-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10465.4 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

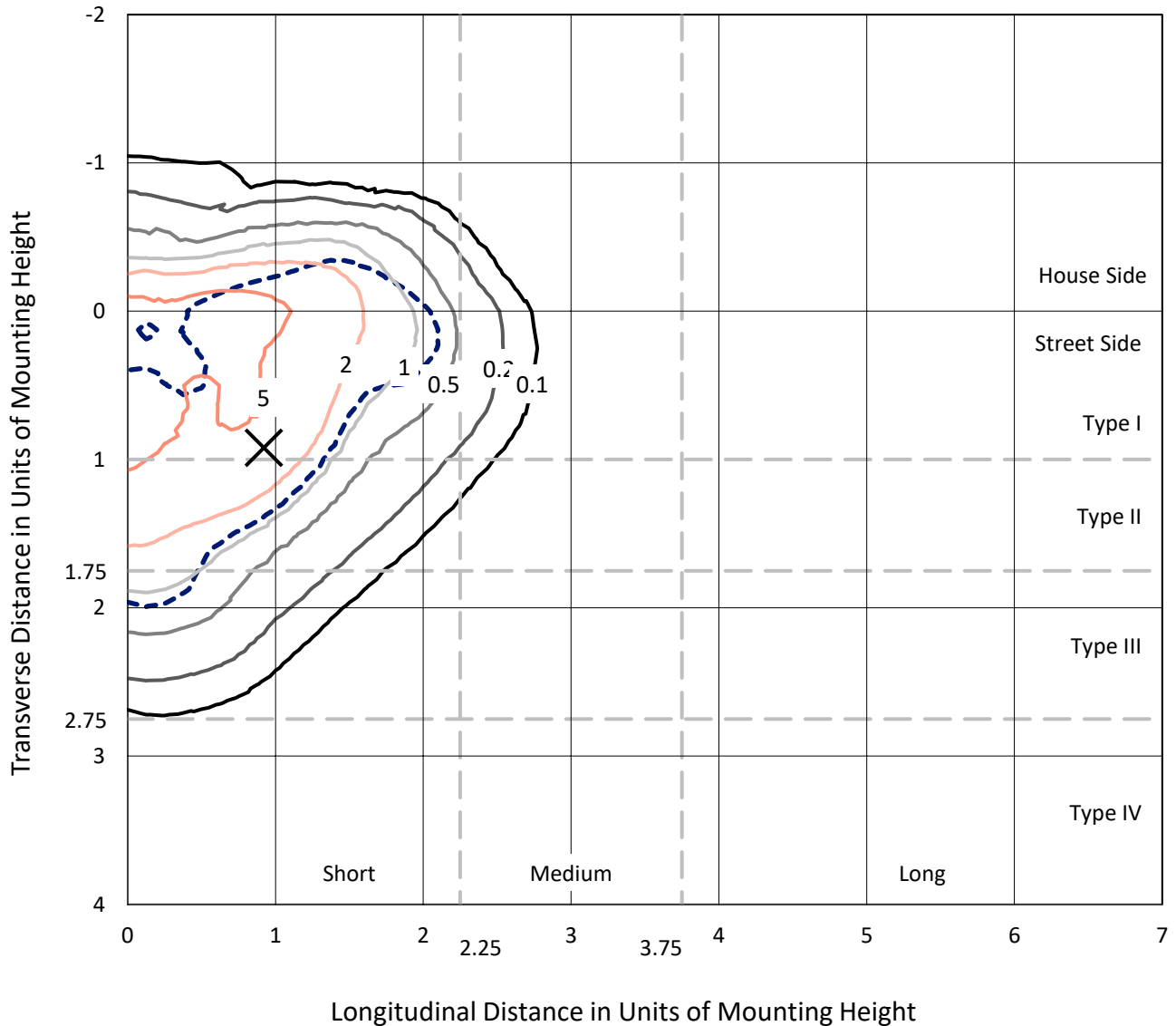
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

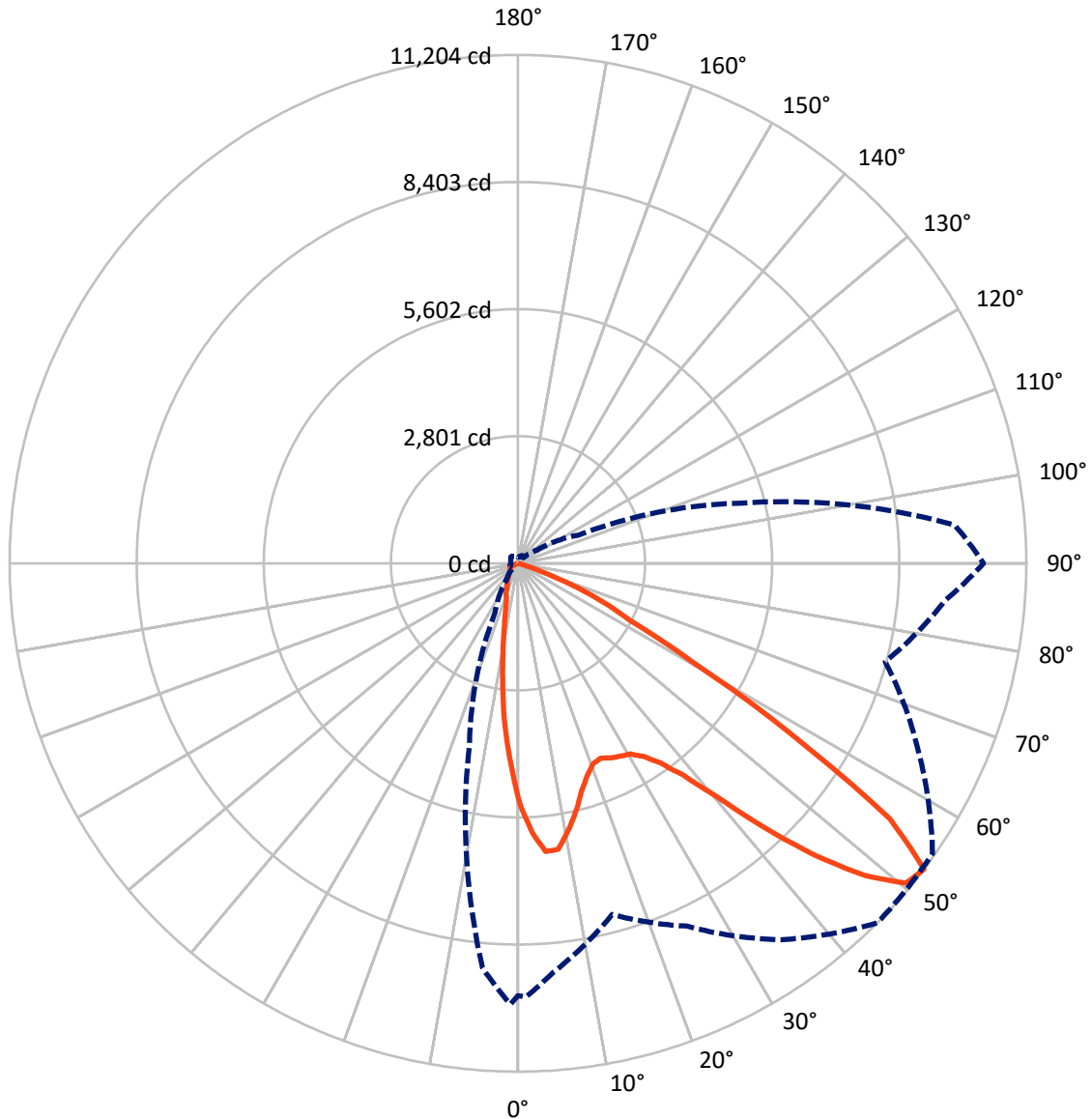
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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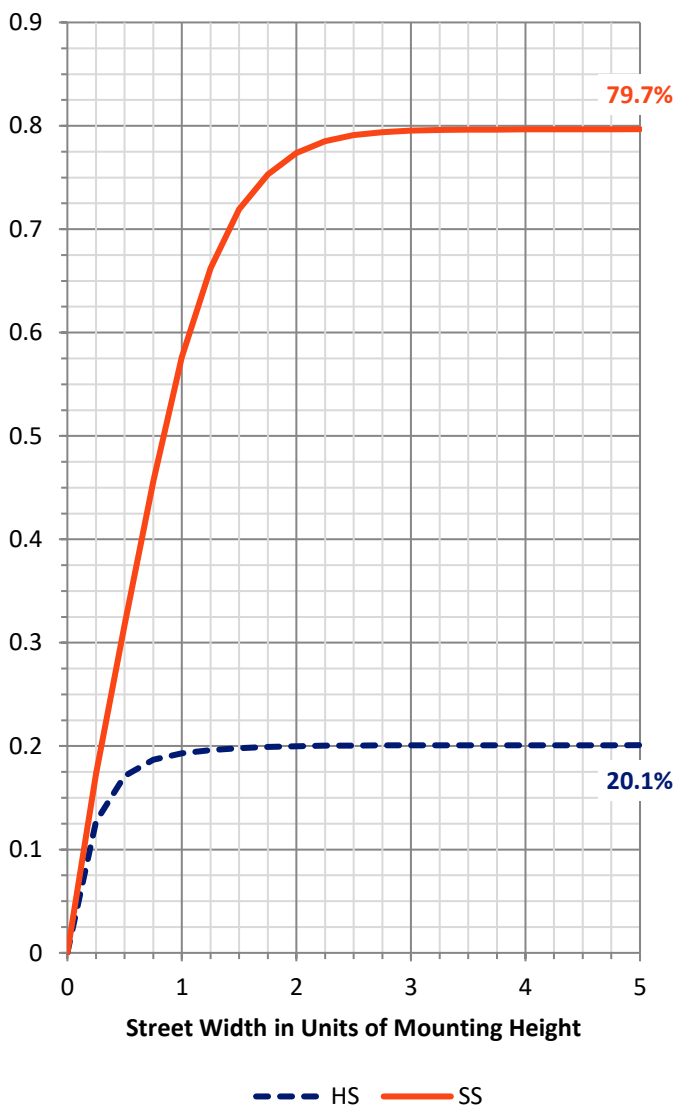
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2124.0	0.0	2124.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	8341.4	0.0	8341.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	10465.4	0.0	10465.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.0	3.7
10°-20°	763.5	7.3
20°-30°	1161.9	11.1
30°-40°	1736.7	16.6
40°-50°	2473.2	23.6
50°-60°	2658.6	25.4
60°-70°	1178.1	11.3
70°-80°	95.3	0.9
80°-90°	11.1	0.1
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°	10465.4	100.0
0°-180°	10465.4	100.0

Coefficient of Utilization



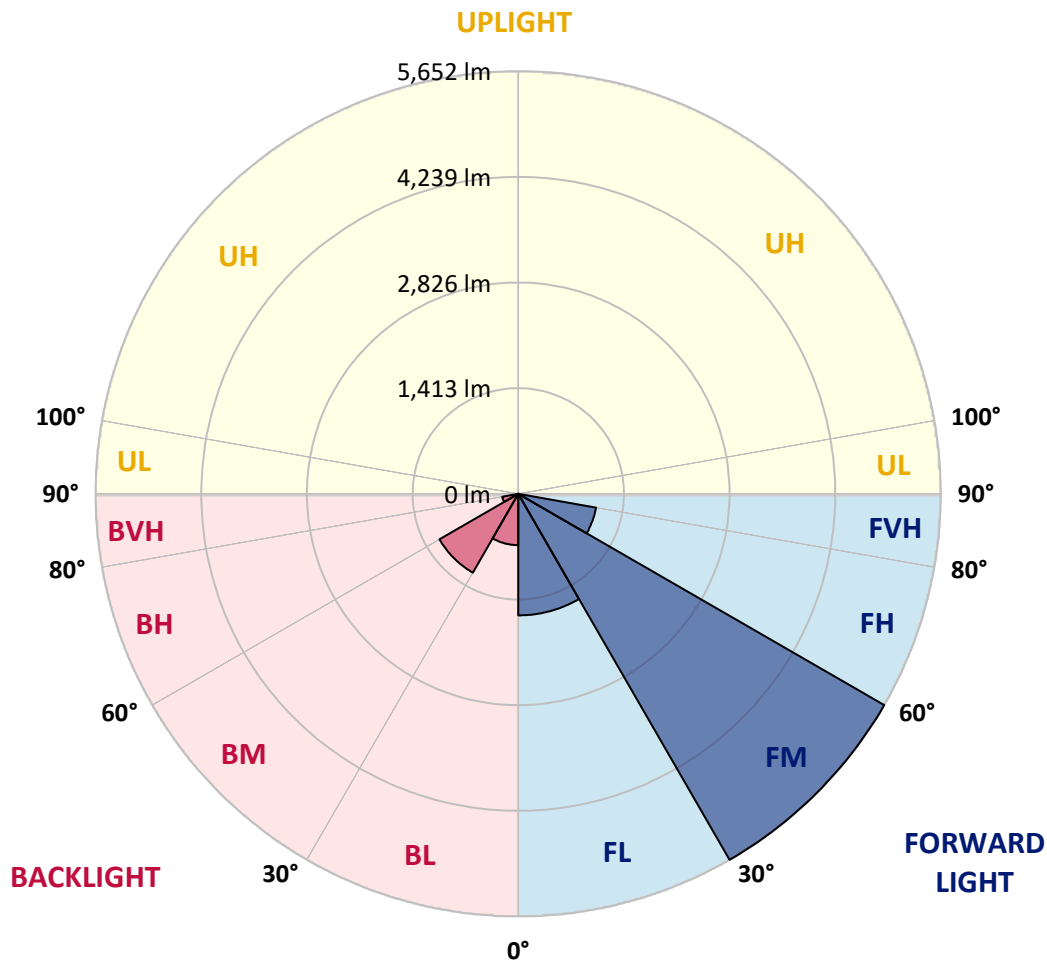
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1625.5	15.5			
FM	(30°-60°)	5651.6	54.0			
FH	(60°-80°)	1056.1	10.1			G1/1800
FVH	(80°-90°)	8.2	0.1			G0/10
BL	(0°-30°)	687.0	6.6	B2/1000		
BM	(30°-60°)	1216.8	11.6	B2/2500		
BH	(60°-80°)	217.3	2.1	B1/500		G1/500
BVH	(80°-90°)	2.9	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5
2.5°	5615.2	5631.7	5722.2	5835.4	5895.2	6031.0	5936.3	5961.0	5909.5	5728.4	5586.3
5°	5444.4	5442.3	5557.6	5837.5	6103.1	6372.7	6380.9	6236.9	5983.6	5705.8	5308.5
7.5°	4929.8	5010.0	5129.4	5576.1	6068.1	6269.7	6366.5	6197.7	5808.7	5411.4	4981.2
10°	4540.7	4581.9	4783.6	5322.9	5683.1	5952.8	6012.5	5915.8	5617.3	5121.2	4639.5
12.5°	4316.3	4337.0	4573.7	5026.5	5407.3	5606.9	5635.8	5681.0	5467.0	5001.8	4423.4
15°	4318.5	4334.9	4653.9	5032.7	5182.9	5129.4	5224.1	5222.0	5314.7	4979.1	4604.6
17.5°	4629.3	4647.8	4935.9	5123.3	5057.4	4931.8	4925.7	5020.3	5215.9	5261.1	4878.3
20°	5164.4	5207.6	5419.7	5409.4	5038.9	4785.7	4715.7	4787.7	5242.6	5500.0	5429.9
22.5°	5884.8	5944.5	6092.7	5808.7	5123.3	4686.9	4664.3	4804.2	5419.7	6033.1	6055.7
25°	6720.5	6821.4	6893.4	6529.1	5423.8	4857.7	4750.7	4991.5	5658.4	6611.4	6852.3
27.5°	7274.2	7379.2	7362.8	6842.0	5625.5	4903.0	4812.5	5036.8	5866.3	6749.4	7268.1
30°	7706.5	7770.3	7885.6	7010.7	5827.2	5030.6	4876.3	5228.2	5934.3	6988.1	7770.3
32.5°	8210.8	8254.0	8262.2	7309.2	6138.0	5191.2	5073.8	5467.0	6234.8	7216.6	8214.9
35°	8719.2	8783.0	8649.2	7677.7	6329.5	5489.6	5403.2	5880.7	6475.6	7453.3	8704.8
37.5°	9270.8	9303.8	8995.0	7830.0	6603.2	5975.4	5928.0	6327.4	6893.4	7881.4	9248.2
40°	9734.0	9764.9	9363.4	8017.3	6891.4	6654.7	6776.1	7179.5	7461.5	8159.3	9519.9
42.5°	9991.2	10063.3	9487.0	7914.4	7469.8	7424.5	7963.8	8105.8	8120.2	8237.5	9762.8
45°	10061.2	10028.3	9283.2	7998.8	7976.1	8690.4	9180.3	9367.6	8774.7	8381.7	9824.6
47.5°	9738.1	9781.3	8982.6	7924.7	8641.0	9649.5	10283.6	10631.4	9262.6	8256.1	9672.3
50°	9476.6	9421.1	8885.9	7871.2	8820.1	10102.4	11080.2	11158.4	9711.4	8410.4	9505.5
52.5°	9528.1	9563.1	9040.3	8013.2	8824.2	10129.2	11203.6	11150.1	9725.7	8375.4	9445.8
55°	9637.3	9482.9	8974.5	7700.3	8233.4	9382.0	9943.9	9861.6	8976.5	8002.9	9299.7
57.5°	8315.7	8554.6	8252.0	6874.9	6757.6	7068.4	7058.1	7311.3	6695.9	6887.3	8466.0
60°	6749.4	6790.5	6903.8	5880.7	4676.5	4569.6	4421.4	4260.8	4505.7	5888.9	7700.3
62.5°	5936.3	5886.9	6290.3	5349.7	3301.6	2764.4	2739.6	2838.5	3476.5	5617.3	7222.8
65°	4314.3	4376.1	4668.4	4151.7	2478.3	2109.8	2072.7	2365.1	2813.7	4501.6	5512.3
67.5°	2634.7	2754.1	2780.9	2560.6	1681.7	1335.8	1282.4	1547.9	2031.6	2912.6	3231.6
70°	1216.5	1360.6	1496.4	1397.7	973.6	549.6	518.7	650.4	1025.1	1675.5	1714.6
72.5°	368.4	370.5	518.7	541.4	315.0	123.5	109.1	144.1	347.8	553.7	582.5
75°	26.7	28.8	70.0	80.3	59.7	30.9	33.0	39.1	74.1	123.5	92.6
77.5°	2.0	2.0	2.0	10.3	18.5	20.6	26.7	30.9	39.1	45.2	41.2
80°	2.0	0.0	2.0	8.2	14.4	20.6	24.7	28.8	30.9	35.0	30.9
82.5°	0.0	0.0	0.0	6.1	14.4	20.6	22.6	30.9	35.0	41.2	35.0
85°	0.0	0.0	0.0	6.1	14.4	22.6	20.6	10.3	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5
2.5°	5611.1	5530.8	5347.6	5255.0	5036.8	5005.9	4791.8	4756.9	4684.8	4645.7	4551.0
5°	5133.5	5036.8	4738.4	4487.2	4194.9	3991.1	3834.7	3692.7	3610.3	3534.2	3569.2
7.5°	4744.5	4462.5	4131.2	3711.2	3373.7	3155.4	2916.7	2721.1	2605.9	2527.6	2546.2
10°	4337.0	4153.8	3692.7	3221.4	2813.7	2659.4	2472.1	2321.8	2159.2	2019.2	1953.4
12.5°	4209.4	3937.6	3359.2	2879.7	2570.9	2420.7	2206.5	2033.6	1825.7	1654.9	1595.2
15°	4232.0	3970.6	3268.6	2756.1	2391.8	2132.4	1877.2	1663.2	1434.7	1315.3	1253.5
17.5°	4600.4	4147.6	3328.3	2626.4	2142.8	1782.5	1467.6	1195.9	1025.1	901.6	874.8
20°	5053.2	4530.5	3456.0	2531.7	1939.0	1418.2	1072.4	837.7	695.8	675.2	668.9
22.5°	5716.0	5156.2	3729.8	2468.0	1689.9	1105.3	734.9	609.3	570.2	566.1	568.1
25°	6642.3	5940.4	4028.2	2414.4	1502.6	852.2	601.1	516.6	504.3	498.1	508.4
27.5°	7043.7	6413.8	4186.7	2299.2	1331.7	767.7	592.8	512.5	477.5	467.3	473.4
30°	7539.7	6728.8	4435.8	2101.6	1080.6	631.9	553.7	557.8	541.4	489.9	473.4
32.5°	8198.4	7121.9	4561.3	1961.6	965.4	522.8	405.5	372.6	415.8	424.0	438.4
35°	8620.4	7521.2	4625.2	1879.3	905.7	446.7	343.7	312.9	302.6	304.6	312.9
37.5°	9404.7	8060.6	4705.4	1792.8	860.4	389.0	310.8	282.0	267.6	267.6	275.8
40°	9873.9	8488.6	4814.5	1745.5	815.1	354.1	282.0	257.3	245.0	245.0	249.0
42.5°	9991.2	8700.6	4777.5	1729.0	763.6	345.8	257.3	238.8	224.4	222.3	220.3
45°	10201.2	9023.8	4783.6	1710.5	710.1	315.0	242.9	222.3	201.8	199.7	197.6
47.5°	10431.8	9256.5	4796.0	1638.4	658.7	263.5	253.1	205.9	181.2	177.0	177.0
50°	10234.1	9441.7	4903.0	1566.4	592.8	214.0	249.0	193.5	160.5	154.4	156.4
52.5°	10258.9	9659.9	5129.4	1465.5	510.5	170.8	201.8	183.2	146.2	135.8	137.9
55°	9863.7	9429.4	5160.3	1358.6	399.3	131.7	154.4	160.5	123.5	119.4	119.4
57.5°	8490.7	7984.4	4553.1	1101.2	263.5	109.1	111.2	139.9	107.1	102.9	105.0
60°	7266.0	6409.8	3663.9	726.6	164.7	86.5	80.3	142.0	94.7	92.6	98.8
62.5°	6623.8	5267.4	2778.7	450.8	113.2	65.9	55.6	115.3	82.3	82.3	90.6
65°	4785.7	3538.3	1615.8	236.7	80.3	51.5	41.2	65.9	68.0	70.0	74.1
67.5°	2964.0	1786.6	681.3	115.3	53.5	35.0	26.7	41.2	45.2	45.2	49.4
70°	1463.5	712.2	226.4	65.9	41.2	28.8	18.5	22.6	22.6	20.6	22.6
72.5°	452.9	214.0	57.6	41.2	28.8	18.5	10.3	8.2	4.1	0.0	2.0
75°	51.5	41.2	37.1	28.8	18.5	8.2	2.0	0.0	0.0	0.0	0.0
77.5°	30.9	35.0	35.0	28.8	18.5	6.1	0.0	0.0	0.0	0.0	0.0
80°	24.7	26.7	28.8	26.7	16.5	8.2	0.0	0.0	0.0	0.0	0.0
82.5°	30.9	35.0	39.1	35.0	22.6	10.3	4.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	6.1	2.0	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°	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5
2.5°	4511.9	4466.6	4530.5	4435.8	4433.7	4435.8	4409.0	4384.3	4423.4	4528.4	4538.7
5°	3443.6	3540.4	3571.2	3672.1	3616.6	3534.2	3550.7	3495.1	3630.9	3690.6	3643.3
7.5°	2507.1	2500.9	2708.8	2721.1	2747.9	2750.0	2745.9	2636.8	2525.6	2550.3	2624.4
10°	1945.1	1840.2	1941.0	1930.8	1996.6	1978.1	2004.9	1887.5	1926.6	1926.6	1974.0
12.5°	1584.9	1473.8	1455.3	1428.5	1455.3	1465.5	1475.9	1453.2	1519.1	1550.0	1582.8
15°	1210.3	1148.6	1132.1	1080.6	1088.8	1117.7	1142.4	1152.7	1132.1	1179.4	1183.5
17.5°	878.9	876.8	887.2	885.1	876.8	870.7	868.7	841.8	833.6	837.7	854.2
20°	666.9	683.4	718.4	753.4	771.9	749.2	718.4	673.1	654.6	658.7	660.8
22.5°	570.2	594.8	642.2	681.3	699.9	658.7	603.1	564.0	555.7	553.7	551.6
25°	516.6	545.5	580.5	592.8	590.7	566.1	524.9	508.4	504.3	500.1	481.6
27.5°	487.9	498.1	504.3	518.7	524.9	508.4	498.1	473.4	469.3	469.3	456.9
30°	471.4	465.2	473.4	463.1	471.4	459.0	461.0	461.0	450.8	454.9	454.9
32.5°	438.4	440.5	440.5	419.9	426.1	411.7	426.1	438.4	440.5	442.5	459.0
35°	321.1	358.2	376.7	376.7	382.8	372.6	370.5	356.1	337.6	319.1	310.8
37.5°	282.0	296.4	321.1	335.5	345.8	337.6	319.1	296.4	286.1	277.9	269.6
40°	251.1	263.5	280.0	296.4	317.0	306.7	277.9	267.6	255.2	255.2	247.0
42.5°	226.4	232.6	242.9	267.6	290.2	269.6	249.0	240.9	234.6	232.6	230.5
45°	203.8	205.9	216.1	236.7	263.5	242.9	222.3	212.0	214.0	216.1	214.0
47.5°	183.2	187.3	193.5	218.2	234.6	224.4	201.8	195.5	195.5	195.5	197.6
50°	158.5	168.8	181.2	201.8	214.0	207.9	189.4	181.2	177.0	177.0	179.0
52.5°	142.0	150.3	166.7	191.4	207.9	197.6	179.0	166.7	158.5	156.4	160.5
55°	123.5	137.9	164.7	183.2	205.9	195.5	174.9	160.5	146.2	144.1	144.1
57.5°	111.2	133.8	158.5	181.2	199.7	191.4	174.9	156.4	137.9	135.8	135.8
60°	105.0	129.7	154.4	174.9	199.7	187.3	172.9	152.3	131.7	131.7	129.7
62.5°	98.8	121.4	146.2	166.7	191.4	181.2	166.7	146.2	125.6	125.6	121.4
65°	82.3	105.0	121.4	139.9	166.7	156.4	142.0	127.6	111.2	107.1	109.1
67.5°	57.6	72.1	88.5	107.1	123.5	119.4	113.2	102.9	88.5	86.5	84.4
70°	28.8	39.1	53.5	72.1	86.5	82.3	78.2	70.0	61.7	59.7	59.7
72.5°	4.1	12.4	22.6	33.0	45.2	47.3	45.2	43.2	41.2	39.1	41.2
75°	0.0	0.0	0.0	8.2	18.5	22.6	26.7	30.9	30.9	26.7	33.0
77.5°	0.0	0.0	0.0	0.0	2.0	10.3	20.6	26.7	33.0	28.8	39.1
80°	0.0	0.0	0.0	0.0	2.0	12.4	20.6	28.8	33.0	28.8	41.2
82.5°	0.0	0.0	0.0	0.0	2.0	14.4	20.6	26.7	30.9	28.8	37.1
85°	0.0	0.0	0.0	0.0	6.1	12.4	8.2	4.1	2.0	2.0	6.1
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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CATALOG NUMBER: GALN-SA4B-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5	5306.5
2.5°	4596.3	4742.5	4898.9	4958.6	5143.8	5283.8	5378.4	5582.3	5613.2	5615.2
5°	3692.7	3766.8	4034.4	4159.9	4435.8	4649.8	4878.3	5207.6	5427.9	5444.4
7.5°	2624.4	2830.2	2943.4	3270.7	3610.3	3945.9	4285.5	4668.4	4923.6	4929.8
10°	2111.8	2245.6	2447.4	2692.3	2978.5	3320.1	3773.0	4217.6	4476.9	4540.7
12.5°	1700.2	1934.9	2165.4	2418.5	2636.8	2894.0	3381.9	3974.7	4188.8	4316.3
15°	1309.1	1523.2	1794.9	2091.3	2338.3	2682.0	3237.8	3915.0	4275.2	4318.5
17.5°	965.4	1156.8	1407.9	1687.9	2058.3	2546.2	3262.5	4217.6	4557.2	4629.3
20°	693.7	804.8	1002.4	1327.6	1799.0	2387.7	3287.2	4524.2	5041.0	5164.4
22.5°	549.6	594.8	724.5	1012.7	1508.8	2221.0	3462.1	5110.9	5705.8	5884.8
25°	477.5	502.2	564.0	798.6	1325.6	2204.5	3742.1	5814.8	6590.8	6720.5
27.5°	461.0	465.2	518.7	732.8	1226.8	2095.4	3849.1	6315.1	7142.5	7274.2
30°	485.8	551.6	555.7	619.6	1043.6	1879.3	3904.7	6798.7	7609.8	7706.5
32.5°	419.9	399.3	413.7	479.6	918.0	1753.7	4009.7	7220.7	8142.9	8210.8
35°	292.2	306.7	339.6	415.8	802.7	1622.0	4036.5	7685.9	8649.2	8719.2
37.5°	269.6	277.9	304.6	354.1	706.0	1547.9	3999.4	8025.6	9174.1	9270.8
40°	251.1	261.4	275.8	321.1	633.9	1465.5	3947.9	8332.2	9495.2	9734.0
42.5°	236.7	245.0	257.3	306.7	572.2	1383.2	3875.9	8764.5	9783.4	9991.2
45°	220.3	232.6	247.0	298.5	537.2	1327.6	3822.3	8737.7	9950.1	10061.2
47.5°	203.8	224.4	240.9	277.9	527.0	1300.9	3845.1	8636.9	9814.2	9738.1
50°	187.3	214.0	242.9	230.5	502.2	1247.4	3871.8	8774.7	9491.1	9476.6
52.5°	172.9	203.8	226.4	189.4	446.7	1195.9	4131.2	8955.9	9719.6	9528.1
55°	152.3	183.2	181.2	152.3	362.3	1156.8	4334.9	8960.0	9565.2	9637.3
57.5°	137.9	162.6	142.0	127.6	267.6	967.4	4003.5	7513.0	8188.1	8315.7
60°	127.6	158.5	107.1	100.8	174.9	697.8	3495.1	5819.0	6508.5	6749.4
62.5°	117.3	150.3	84.4	82.3	121.4	496.1	2873.4	4870.1	5609.0	5936.3
65°	102.9	107.1	68.0	63.8	86.5	267.6	1749.6	3353.1	4192.9	4314.3
67.5°	84.4	82.3	55.6	51.5	57.6	129.7	771.9	1679.6	2430.9	2634.7
70°	68.0	68.0	47.3	41.2	41.2	59.7	201.8	668.9	1099.2	1216.5
72.5°	49.4	51.5	37.1	33.0	30.9	28.8	33.0	133.8	288.2	368.4
75°	43.2	45.2	37.1	28.8	22.6	18.5	14.4	12.4	16.5	26.7
77.5°	47.3	47.3	39.1	26.7	20.6	14.4	8.2	4.1	4.1	2.0
80°	59.7	61.7	51.5	35.0	24.7	16.5	10.3	4.1	2.0	2.0
82.5°	63.8	70.0	57.6	43.2	30.9	18.5	10.3	2.0	0.0	0.0
85°	16.5	26.7	45.2	39.1	30.9	18.5	10.3	2.0	0.0	0.0
87.5°	0.0	2.0	6.1	6.1	8.2	8.2	6.1	2.0	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

(END OF REPORT)