

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: P652563

Luminaire Tested: **GALN-SA8B-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21363.1 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 325
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

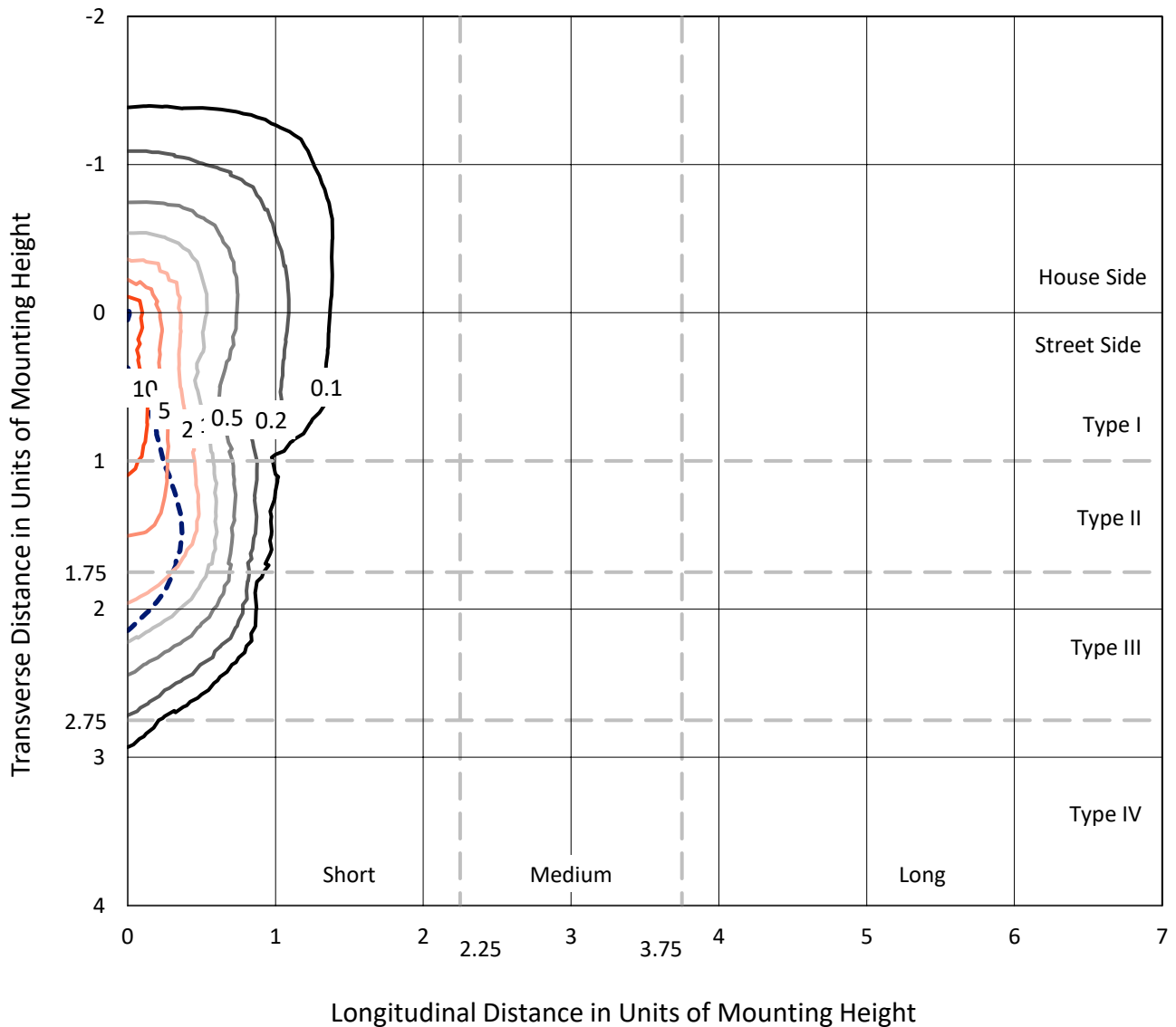




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Iso-Footcandle Lines of Horizontal Illumination

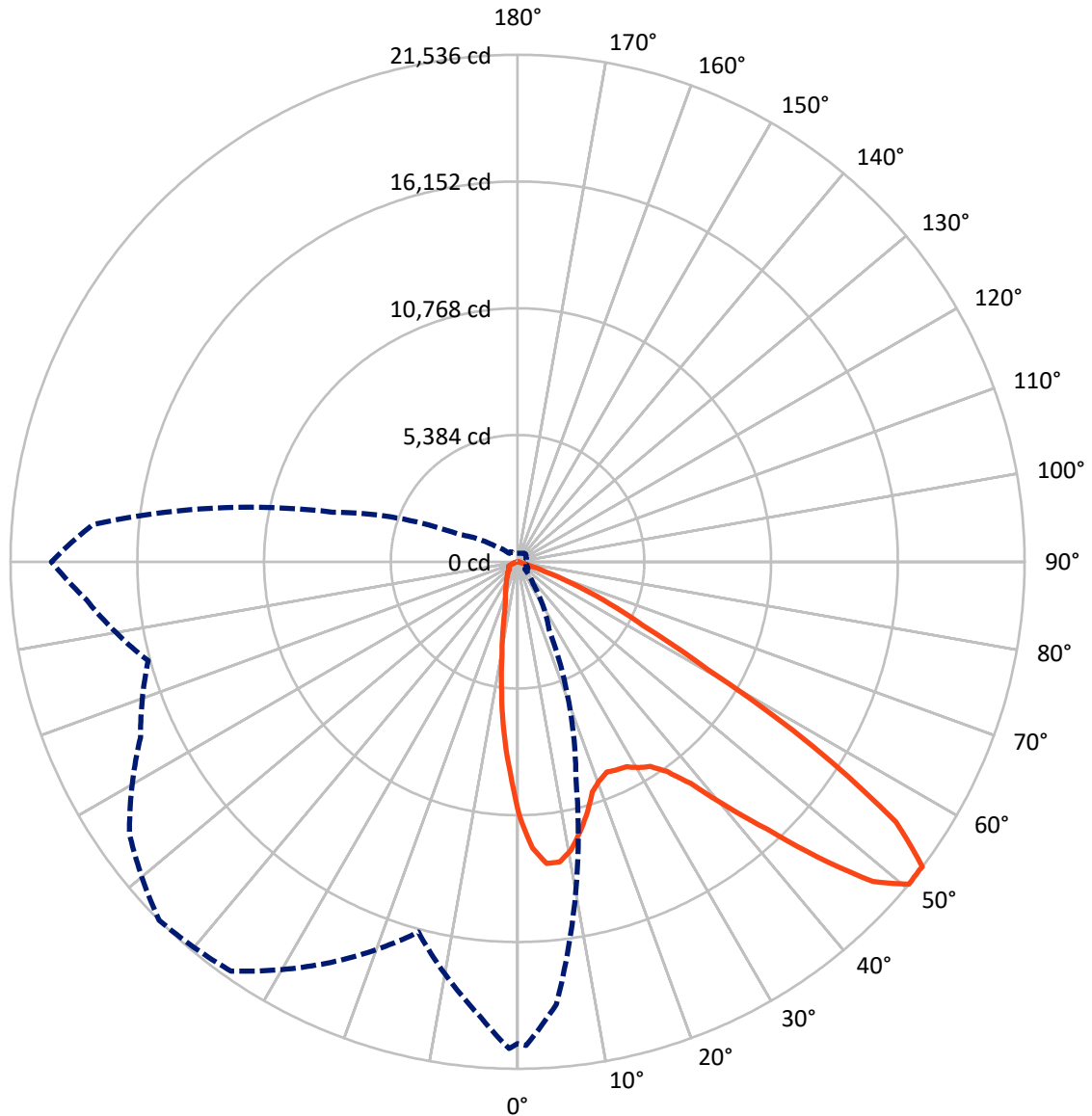
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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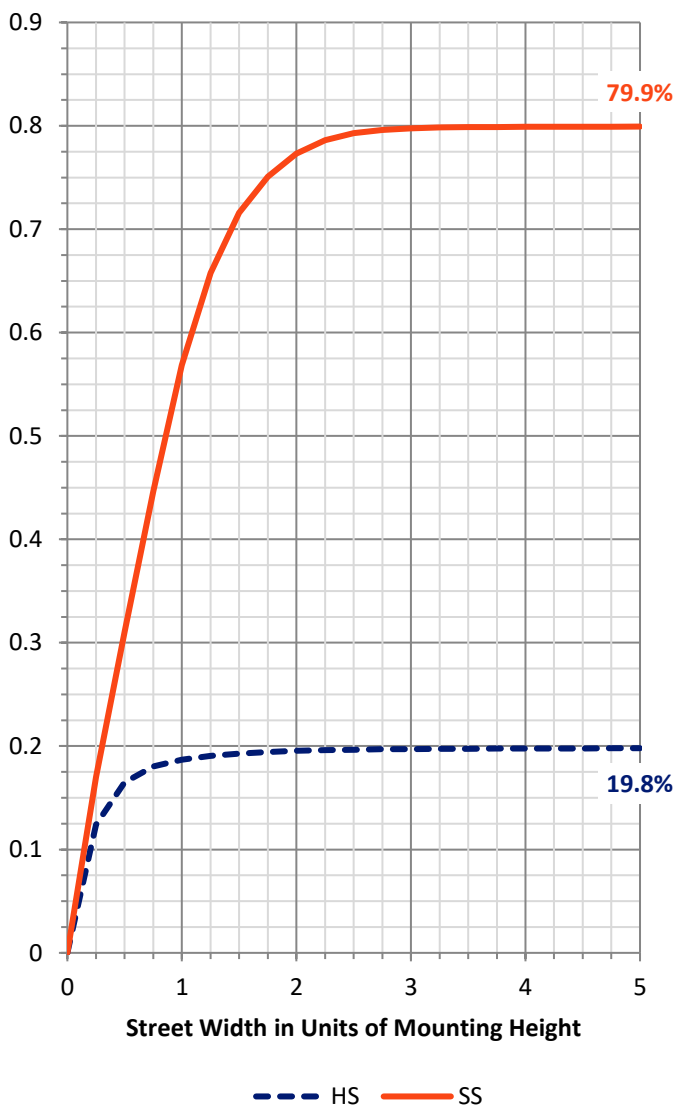
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4279.0	0.0	4279.0
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	17084.1	0.0	17084.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	21363.1	0.0	21363.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.7	3.7
10°-20°	1569.4	7.3
20°-30°	2357.8	11.0
30°-40°	3538.9	16.6
40°-50°	4973.7	23.3
50°-60°	5365.0	25.1
60°-70°	2491.0	11.7
70°-80°	234.4	1.1
80°-90°	43.2	0.2
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°	21363.1	100.0
0°-180°	21363.1	100.0

Coefficient of Utilization



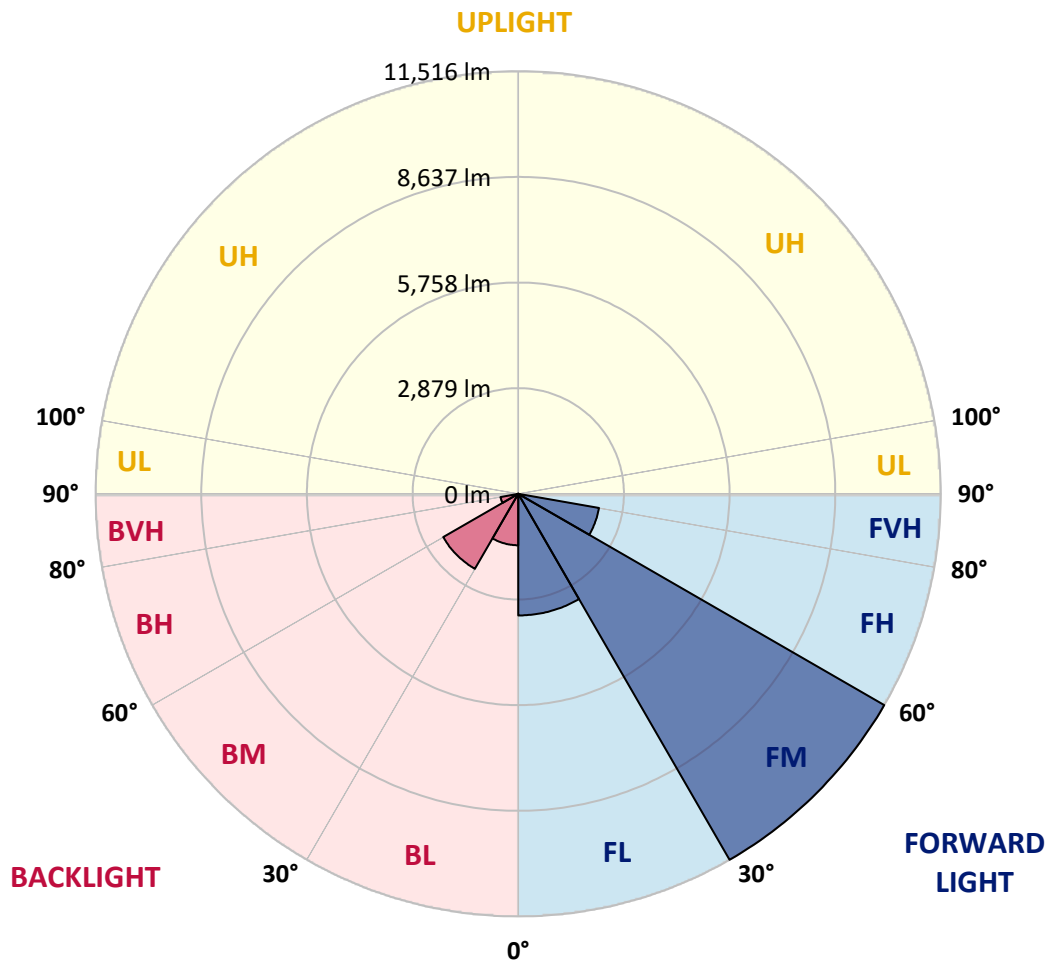
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3314.3	15.5			
FM	(30°-60°)	11516.3	53.9			
FH	(60°-80°)	2234.0	10.5			G2/5000
FVH	(80°-90°)	19.5	0.1			G1/100
BL	(0°-30°)	1402.6	6.6	B3/2500		
BM	(30°-60°)	2361.4	11.1	B2/2500		
BH	(60°-80°)	491.4	2.3	B1/500		G1/500
BVH	(80°-90°)	23.7	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8
2.5°	11261.8	11088.1	10867.7	10685.4	10414.2	9867.4	9719.0	9541.0	9392.6	9193.5	8913.7
5°	10240.4	10185.3	10083.6	9396.9	8901.0	8239.8	7697.3	7468.3	7167.4	6921.6	6743.6
7.5°	9460.5	9240.1	8918.0	8227.1	7434.4	6726.6	6124.8	5773.0	5374.5	5238.8	4997.3
10°	8625.5	8676.3	8201.6	7231.0	6273.1	5700.9	5327.9	4988.8	4628.5	4391.1	4047.8
12.5°	8358.4	8193.2	7828.6	6629.1	5811.1	5277.0	4823.5	4403.9	4022.4	3640.9	3310.3
15°	8532.2	8277.9	7769.3	6501.9	5455.1	4789.6	4221.7	3653.6	3301.9	2814.4	2471.1
17.5°	9155.3	8951.9	8269.5	6637.6	5272.8	4323.3	3479.9	2895.0	2356.7	1915.8	1742.0
20°	10193.8	9905.6	9049.3	6811.3	5001.5	3759.6	2822.9	2102.3	1593.7	1407.2	1309.7
22.5°	11211.0	11054.2	9973.3	7146.2	4759.9	3259.5	2119.3	1415.7	1191.0	1157.1	1093.6
25°	13148.0	12677.6	11384.8	7752.3	4573.4	2789.0	1597.9	1140.1	1008.8	983.4	991.8
27.5°	14301.0	13906.8	12690.3	8155.0	4365.7	2428.7	1352.1	1047.0	957.9	902.8	881.6
30°	15407.2	14949.4	13338.8	8392.3	3920.7	2047.2	1199.5	1004.6	983.4	902.8	877.4
32.5°	16259.1	15809.9	14275.5	8748.4	3738.4	1801.4	987.6	784.1	729.1	720.6	796.8
35°	17564.6	17085.7	15076.6	8943.4	3598.6	1674.3	856.2	699.4	635.8	610.3	614.6
37.5°	18781.1	18454.7	15818.4	9019.6	3450.2	1636.1	767.2	627.3	572.2	555.2	551.0
40°	19798.3	19069.3	16521.9	9100.2	3386.6	1564.0	712.1	572.2	534.0	508.6	508.6
42.5°	20264.6	19522.8	17310.3	9053.6	3369.6	1449.6	712.1	525.5	495.9	470.5	466.3
45°	20162.9	19861.9	17662.1	9032.4	3369.6	1335.2	648.5	512.8	470.5	436.6	428.1
47.5°	20425.6	20031.4	18102.9	9121.4	3301.9	1254.6	546.7	538.3	445.1	402.7	394.2
50°	20472.3	20548.6	18870.1	9583.4	3153.5	1152.9	428.1	529.8	428.1	364.5	356.1
52°	20777.5	20302.7	19103.2	9829.3	2996.7	1076.6	360.3	453.6	411.2	339.1	330.6
52.5°	20357.8	20667.2	19158.3	9918.2	3013.6	1025.8	347.6	445.1	402.7	339.1	317.9
55°	19887.4	20184.1	18933.7	10109.0	2763.5	805.3	271.3	322.1	364.5	296.7	284.0
57.5°	17284.9	17585.8	16454.1	9257.1	2250.7	567.9	224.6	241.6	322.1	275.5	262.8
60°	15364.8	15148.6	13809.2	7722.7	1597.9	317.9	178.0	186.5	351.8	254.3	250.1
62.5°	14042.3	13580.4	11541.6	5963.7	974.9	211.9	139.9	144.1	271.3	237.3	237.3
65°	10388.7	9871.7	7667.6	3607.0	478.9	148.4	106.0	114.5	169.5	203.4	203.4
67.5°	5929.7	5730.6	3704.5	1627.6	199.2	93.3	80.6	89.0	131.4	165.3	156.8
70°	2725.4	2445.6	1424.1	343.3	93.3	63.6	63.6	72.1	106.0	123.0	114.5
72.5°	796.8	754.5	347.6	55.1	38.2	38.2	42.4	55.1	80.6	93.3	84.8
75°	59.4	38.2	25.4	17.0	17.0	25.4	33.9	55.1	80.6	89.0	72.1
77.5°	4.2	8.5	4.2	4.2	12.7	25.4	38.2	67.8	106.0	110.2	80.6
80°	4.2	4.2	0.0	4.2	12.7	25.4	42.4	76.3	118.7	127.2	67.8
82.5°	0.0	0.0	0.0	4.2	17.0	33.9	50.9	80.6	110.2	135.7	72.1
85°	0.0	0.0	0.0	4.2	25.4	46.6	59.4	21.2	12.7	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°	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8
2.5°	9112.9	9002.7	8960.4	8998.4	8985.7	8973.0	9206.2	9155.3	9146.8	9223.1	9206.2
5°	6841.0	6646.1	7180.1	6964.0	7188.6	7324.3	7349.7	7362.4	7519.2	7353.9	7570.1
7.5°	4874.4	4925.2	4920.9	5065.1	5323.6	5552.5	5688.2	5582.2	5573.7	5552.5	5459.3
10°	3895.3	3806.2	3789.3	3755.4	3835.9	4030.9	4196.2	4064.8	3971.5	4098.7	4060.5
12.5°	3183.2	3060.2	2992.4	2856.8	2861.0	2992.4	2992.4	2992.4	3085.7	3157.7	3212.9
15°	2441.4	2339.7	2339.7	2204.1	2174.4	2178.6	2246.5	2254.9	2403.2	2445.6	2466.8
17.5°	1708.2	1653.1	1716.6	1771.7	1737.8	1746.3	1771.7	1780.2	1801.4	1784.4	1826.8
20°	1314.0	1305.5	1322.5	1419.9	1491.9	1534.3	1504.7	1462.3	1436.8	1377.6	1377.6
22.5°	1114.7	1131.7	1161.3	1241.9	1335.2	1360.6	1326.7	1229.2	1152.9	1144.4	1148.6
25°	991.8	1008.8	1055.4	1106.3	1157.1	1199.5	1165.6	1093.6	1051.2	1013.0	1013.0
27.5°	915.5	924.0	949.4	987.6	1030.0	1063.9	1051.2	1013.0	966.4	949.4	911.3
30°	856.2	868.9	898.6	907.0	945.2	962.2	941.0	932.5	902.8	881.6	868.9
32.5°	826.5	822.2	843.4	851.9	856.2	868.9	843.4	856.2	851.9	818.0	805.3
35°	623.1	657.0	712.1	758.7	771.4	788.4	784.1	767.2	720.6	682.4	635.8
37.5°	559.5	580.7	610.3	648.5	699.4	720.6	712.1	669.7	614.6	589.1	580.7
40°	517.1	529.8	555.2	580.7	631.5	669.7	640.0	601.9	559.5	538.3	525.5
42.5°	478.9	483.2	495.9	521.3	559.5	618.8	567.9	517.1	500.1	487.4	478.9
45°	436.6	436.6	453.6	466.3	508.6	563.7	512.8	466.3	457.8	449.3	445.1
47.5°	402.7	406.9	415.4	432.4	466.3	504.3	470.5	432.4	411.2	406.9	398.5
50°	360.3	364.5	381.5	398.5	440.9	462.0	440.9	398.5	377.3	364.5	364.5
52°	326.4	339.1	356.1	390.0	419.7	453.6	428.1	381.5	356.1	343.3	334.9
52.5°	322.1	330.6	347.6	385.7	419.7	449.3	423.9	377.3	347.6	339.1	330.6
55°	288.2	300.9	330.6	377.3	415.4	449.3	415.4	373.0	330.6	309.4	300.9
57.5°	275.5	284.0	322.1	381.5	411.2	449.3	415.4	373.0	330.6	292.5	284.0
60°	262.8	279.7	322.1	368.8	406.9	453.6	419.7	368.8	322.1	275.5	275.5
62.5°	250.1	262.8	317.9	360.3	390.0	436.6	402.7	360.3	309.4	262.8	258.5
65°	216.1	237.3	279.7	300.9	334.9	377.3	343.3	313.7	271.3	233.1	228.9
67.5°	165.3	173.8	207.7	233.1	254.3	292.5	275.5	237.3	207.7	178.0	178.0
70°	114.5	123.0	148.4	161.1	182.2	203.4	190.7	161.1	139.9	123.0	118.7
72.5°	80.6	84.8	93.3	101.8	110.2	118.7	114.5	93.3	80.6	76.3	72.1
75°	63.6	72.1	76.3	72.1	67.8	63.6	63.6	55.1	46.6	42.4	42.4
77.5°	63.6	67.8	63.6	55.1	46.6	42.4	38.2	33.9	25.4	21.2	25.4
80°	55.1	55.1	55.1	46.6	42.4	38.2	33.9	29.7	25.4	21.2	21.2
82.5°	59.4	59.4	55.1	46.6	46.6	38.2	38.2	33.9	29.7	21.2	21.2
85°	0.0	0.0	0.0	8.5	21.2	38.2	38.2	33.9	29.7	25.4	25.4
87.5°	0.0	0.0	0.0	0.0	4.2	8.5	17.0	21.2	25.4	25.4	25.4
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°	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8
2.5°	9358.7	9519.8	9825.0	10130.2	10316.6	10537.1	10935.5	11147.5	11423.0	11558.5	11825.6
5°	7540.4	7921.9	8057.5	8405.0	8778.1	9151.1	9744.5	10397.2	10939.7	11312.7	11796.0
7.5°	5501.7	5590.6	6116.3	6349.4	6959.7	7637.9	8447.4	9269.8	9956.4	10566.7	10935.5
10°	4124.1	4450.5	4781.1	5226.1	5717.8	6417.2	7192.8	8099.9	8990.0	9600.4	10066.6
12.5°	3314.5	3573.1	4013.9	4492.9	5099.0	5561.0	6340.9	7239.5	8392.3	8990.0	9604.6
15°	2509.2	2839.8	3340.0	3835.9	4475.9	4963.3	5751.8	6883.4	8366.9	9189.2	9719.0
17.5°	1860.7	2085.3	2534.7	3089.9	3742.6	4429.3	5493.2	6845.3	8650.9	9630.0	10176.8
20°	1424.1	1500.4	1784.4	2280.4	2988.2	3886.8	5073.6	7010.6	9490.2	10702.4	11257.6
22.5°	1152.9	1186.8	1297.0	1640.3	2327.0	3412.0	4874.4	7125.0	10435.4	11986.7	12728.5
25°	1004.6	996.1	1068.2	1216.5	1818.3	2967.0	4620.0	7557.4	11592.5	13495.6	14161.0
27.5°	915.5	915.5	949.4	1055.4	1508.9	2678.8	4459.0	7866.8	12758.1	14822.3	15182.6
30°	868.9	877.4	974.9	1008.8	1254.6	2335.5	4192.0	8180.4	13872.8	15670.0	16165.9
32.5°	805.3	771.4	750.3	835.0	1055.4	2026.1	3924.9	8311.9	14775.6	16708.4	17132.3
35°	618.8	601.9	627.3	690.9	907.0	1763.2	3628.2	8460.2	15814.1	17912.2	17997.0
37.5°	559.5	555.2	572.2	627.3	763.0	1534.3	3416.3	8422.0	16606.7	18908.2	18679.4
40°	517.1	517.1	529.8	576.4	682.4	1373.3	3195.9	8388.1	17373.9	20027.2	19357.5
42.5°	483.2	483.2	504.3	534.0	648.5	1267.3	3030.5	8341.5	18018.2	20713.9	19755.9
45°	436.6	449.3	483.2	512.8	657.0	1195.3	2907.7	8163.5	18238.5	20705.4	19565.2
47.5°	402.7	419.7	453.6	495.9	593.4	1174.1	2822.9	8006.7	18162.2	20196.8	18967.6
50°	364.5	385.7	432.4	504.3	504.3	1131.7	2733.8	8146.5	18107.2	19802.6	18395.4
52°	339.1	356.1	415.4	491.6	440.9	1042.7	2678.8	8417.8	18331.8	19751.7	18141.0
52.5°	334.9	347.6	402.7	483.2	419.7	1025.8	2640.7	8481.4	18403.9	19624.6	18314.9
55°	296.7	313.7	368.8	377.3	343.3	843.4	2517.7	8625.5	18047.8	19374.5	18149.5
57.5°	279.7	288.2	326.4	309.4	296.7	635.8	2165.9	8400.8	16030.2	17208.5	16886.4
60°	258.5	267.0	305.2	241.6	250.1	445.1	1627.6	7294.6	12872.5	14339.0	14919.8
62.5°	250.1	245.8	288.2	194.9	211.9	322.1	1148.6	5929.7	9918.2	11804.4	12808.9
65°	220.4	216.1	207.7	165.3	182.2	250.1	686.7	3869.8	6989.4	8930.7	9481.7
67.5°	169.5	178.0	152.6	131.4	152.6	194.9	381.5	1733.6	3666.3	5357.5	5802.6
70°	118.7	127.2	123.0	114.5	135.7	161.1	220.4	593.4	1517.4	2814.4	3102.6
72.5°	72.1	89.0	93.3	97.5	118.7	139.9	156.8	190.7	402.7	996.1	1237.7
75°	42.4	59.4	72.1	84.8	97.5	118.7	131.4	135.7	139.9	186.5	300.9
77.5°	29.7	42.4	63.6	80.6	97.5	118.7	139.9	148.4	139.9	131.4	139.9
80°	25.4	42.4	59.4	76.3	101.8	123.0	139.9	139.9	135.7	118.7	127.2
82.5°	25.4	42.4	63.6	80.6	97.5	118.7	135.7	139.9	127.2	118.7	123.0
85°	29.7	46.6	67.8	84.8	106.0	97.5	89.0	72.1	67.8	55.1	59.4
87.5°	29.7	42.4	42.4	46.6	50.9	50.9	50.9	46.6	38.2	33.9	33.9
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: P652563

CATALOG NUMBER: GALN-SA8B-840-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8	10833.8
2.5°	11838.3	12177.4	12164.6	12173.1	12122.3	11779.0	11613.7	11194.0	11312.7	11261.8
5°	12291.8	12626.7	12914.9	12881.0	12491.0	12024.8	11333.9	10681.2	10503.2	10240.4
7.5°	11838.3	12643.7	12910.7	12872.5	12296.1	11698.5	10596.4	9943.6	9634.2	9460.5
10°	11117.8	12050.3	12380.9	12448.7	12058.8	11151.7	10138.7	9091.7	8926.5	8625.5
12.5°	10706.6	11384.8	11588.2	11770.5	11634.9	10956.7	9791.1	8786.5	8557.7	8358.4
15°	10371.8	10774.5	10859.2	11066.9	11147.5	10782.9	9973.3	9117.2	8553.4	8532.2
17.5°	10681.2	10515.9	10206.5	10270.0	10524.4	10787.2	10443.8	9769.9	9223.1	9155.3
20°	11194.0	10465.0	9765.7	9922.5	10134.4	10939.7	11155.9	10681.2	10367.5	10193.8
22.5°	11783.3	10554.0	9625.7	9702.1	10104.8	11283.0	12308.8	12046.0	11461.1	11211.0
25°	12872.5	10799.9	9736.0	9786.9	10337.8	11762.1	13351.5	13546.5	13198.9	13148.0
27.5°	13936.4	11435.7	9977.6	9863.2	10456.6	12228.2	13983.1	15029.9	14419.6	14301.0
30°	14478.9	11952.8	10337.8	10142.9	10948.2	12512.2	14364.5	15996.3	15462.3	15407.2
32.5°	15309.7	12423.3	10617.6	10367.5	11223.7	12864.0	15076.6	17051.8	16534.6	16259.1
35°	15657.2	12936.1	11232.2	10939.7	12012.1	13355.8	15441.1	17992.7	17831.6	17564.6
37.5°	16326.9	13487.1	11957.0	11940.0	12965.8	13995.8	16098.1	19272.8	19243.1	18781.1
40°	16382.1	14089.0	13101.4	13635.5	14440.8	15110.5	16674.5	19628.8	20112.0	19798.3
42.5°	16466.9	15144.4	15080.8	15521.7	16212.5	16068.4	16695.7	19713.5	20451.1	20264.6
45°	16505.0	16199.8	17094.2	17907.9	18196.1	17323.0	16496.5	19552.5	20629.1	20162.9
47.5°	16199.8	17106.9	18721.8	20294.3	20379.0	18094.5	16411.7	19387.2	20735.1	20425.6
50°	16242.1	17674.8	20128.9	21536.2	21226.8	18776.8	16280.3	19285.5	20679.9	20472.3
52°	16140.5	17687.6	20328.1	21510.8	21294.5	18399.7	16055.7	18895.5	20629.1	20777.5
52.5°	16254.9	17611.2	20120.5	21527.7	21247.9	18586.1	16026.0	19111.7	20658.7	20357.8
55°	15860.8	16704.2	18904.0	19501.6	19459.2	16869.5	15114.7	18395.4	19883.1	19887.4
57.5°	14334.8	14478.9	14826.5	14813.8	14618.9	13262.5	12927.6	16916.1	17725.7	17284.9
60°	12630.9	10600.6	9663.9	9282.5	9066.3	8845.9	11435.7	15475.0	15551.3	15364.8
62.5°	10914.3	7349.7	6103.6	5997.6	6048.5	6853.7	11054.2	14902.8	14445.0	14042.3
65°	8807.7	5357.5	4433.5	4293.6	4789.6	5658.5	8947.7	11427.2	10723.6	10388.7
67.5°	5531.3	3908.0	2996.7	2733.8	3331.5	3895.3	5878.9	7180.1	6391.8	5929.7
70°	3280.7	2182.9	1356.4	1216.5	1369.1	2076.9	3293.4	3581.6	2962.8	2725.4
72.5°	1292.8	801.1	377.3	322.1	334.9	729.1	1212.2	1182.5	894.3	796.8
75°	347.6	241.6	131.4	106.0	89.0	135.7	194.9	127.2	46.6	59.4
77.5°	161.1	144.1	114.5	89.0	67.8	50.9	25.4	8.5	8.5	4.2
80°	139.9	123.0	106.0	89.0	67.8	42.4	21.2	4.2	4.2	4.2
82.5°	131.4	114.5	97.5	80.6	63.6	42.4	21.2	4.2	0.0	0.0
85°	55.1	72.1	80.6	76.3	67.8	42.4	21.2	4.2	0.0	0.0
87.5°	29.7	25.4	21.2	17.0	12.7	8.5	8.5	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

(END OF REPORT)