

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: P650909

Luminaire Tested: **GALN-SA5C-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650909
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-SA5C-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA 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: 16369.2 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

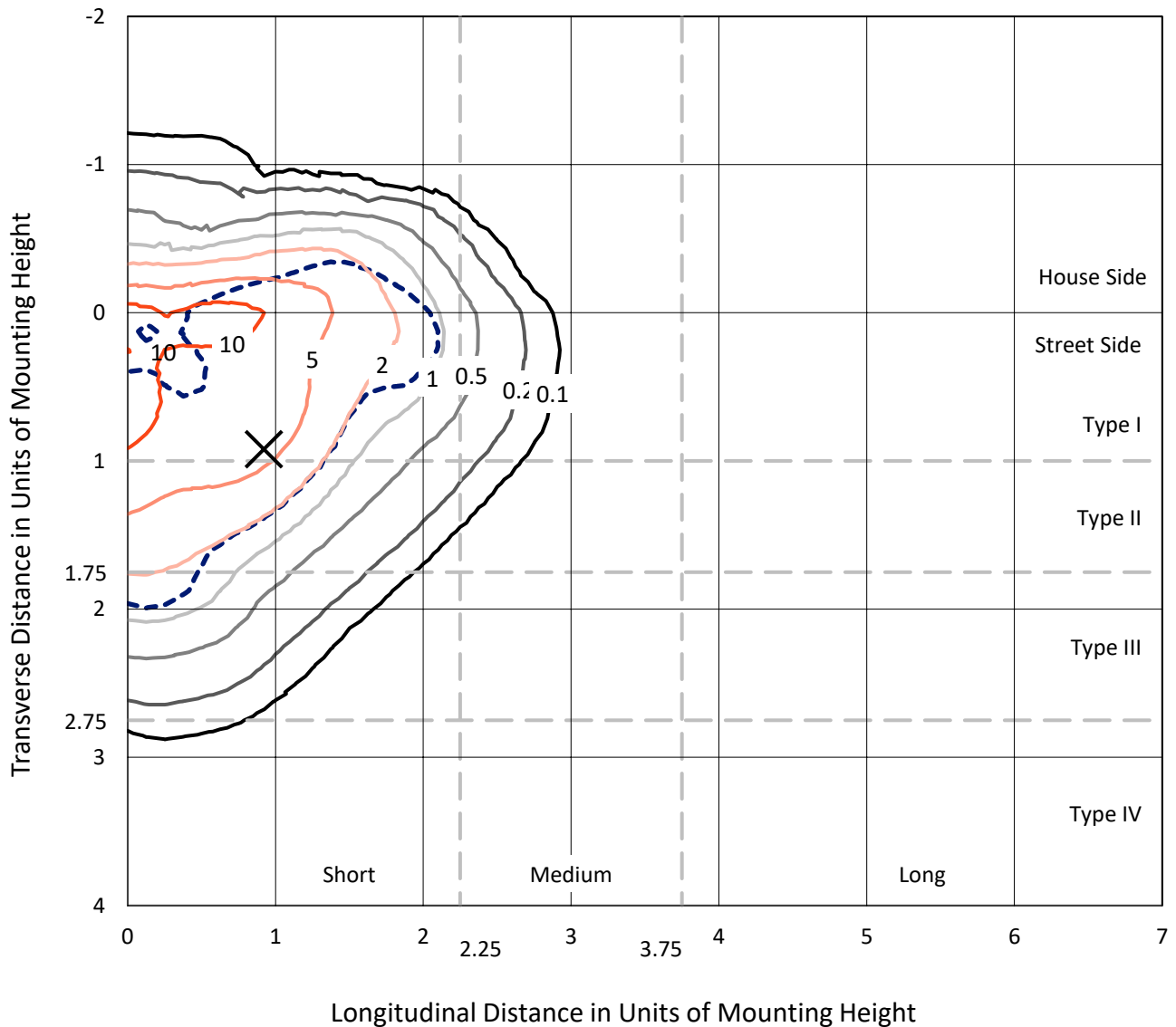
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

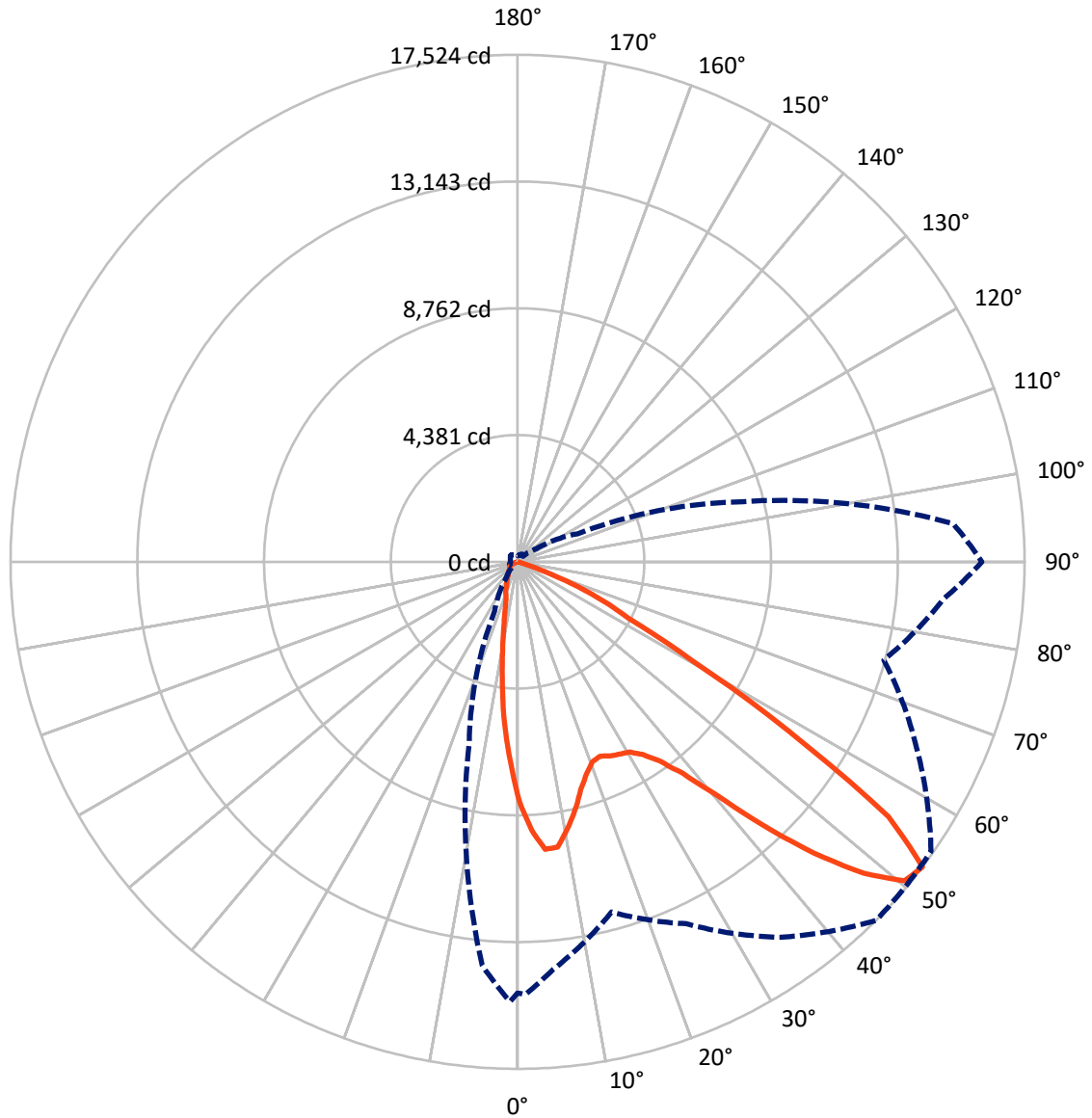
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	3322.1	0.0	3322.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	13047.1	0.0	13047.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	16369.2	0.0	16369.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.3	3.7
10°-20°	1194.2	7.3
20°-30°	1817.4	11.1
30°-40°	2716.4	16.6
40°-50°	3868.4	23.6
50°-60°	4158.4	25.4
60°-70°	1842.7	11.3
70°-80°	149.1	0.9
80°-90°	17.4	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°	16369.2	100.0
0°-180°	16369.2	100.0

Coefficient of Utilization



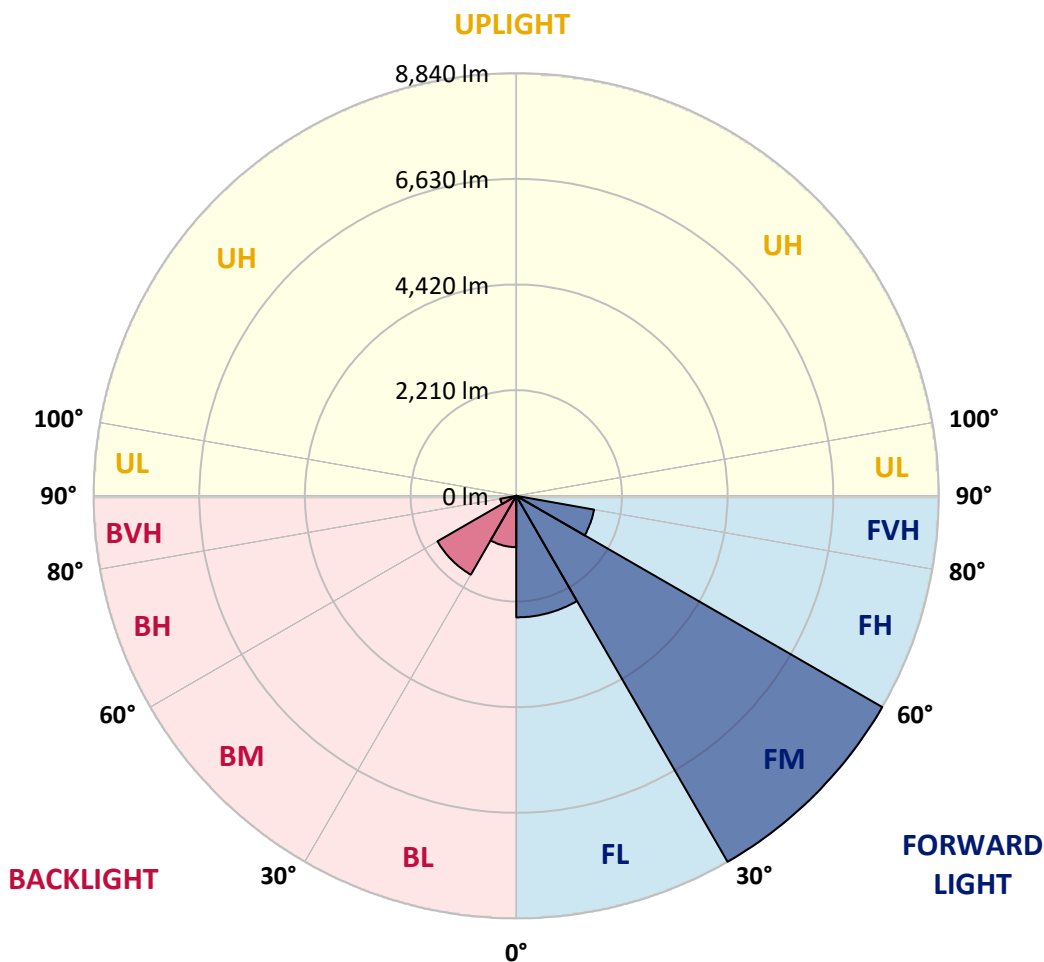
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2542.5	15.5			
FM (30°-60°)	8839.9	54.0			
FH (60°-80°)	1651.9	10.1			G1/1800
FVH (80°-90°)	12.9	0.1			G1/100
BL (0°-30°)	1074.5	6.6	B3/2500		
BM (30°-60°)	1903.2	11.6	B2/2500		
BH (60°-80°)	339.9	2.1	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: B3-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0
2.5°	8782.9	8808.6	8950.3	9127.4	9220.7	9433.2	9285.1	9323.7	9243.3	8959.9	8737.8
5°	8515.6	8512.4	8692.7	9130.6	9545.9	9967.7	9980.6	9755.2	9359.2	8924.5	8303.2
7.5°	7710.8	7836.4	8023.1	8721.7	9491.2	9806.7	9958.0	9694.0	9085.5	8464.2	7791.3
10°	7102.3	7166.7	7482.2	8325.7	8889.1	9310.9	9404.2	9252.9	8786.1	8010.2	7256.8
12.5°	6751.4	6783.6	7153.8	7862.1	8457.7	8770.0	8815.1	8885.9	8551.1	7823.5	6918.7
15°	6754.6	6780.3	7279.4	7871.8	8106.8	8023.1	8171.2	8168.0	8312.9	7788.1	7202.1
17.5°	7240.8	7269.7	7720.5	8013.4	7910.4	7714.0	7704.3	7852.4	8158.3	8229.1	7630.3
20°	8077.8	8145.4	8477.0	8461.0	7881.4	7485.4	7376.0	7488.6	8200.2	8602.6	8493.1
22.5°	9204.7	9298.0	9529.8	9085.5	8013.4	7330.9	7295.4	7514.4	8477.0	9436.4	9471.8
25°	10511.7	10669.5	10782.2	10212.3	8483.5	7598.1	7430.7	7807.3	8850.5	10341.1	10717.8
27.5°	11377.8	11542.1	11516.2	10701.7	8799.0	7668.9	7527.3	7878.2	9175.6	10556.8	11368.1
30°	12054.0	12153.7	12334.0	10965.7	9114.5	7868.6	7627.1	8177.6	9281.9	10930.3	12153.7
32.5°	12842.7	12910.4	12923.2	11432.6	9600.7	8119.7	7936.2	8551.1	9752.0	11287.6	12849.1
35°	13637.9	13737.7	13528.5	12008.9	9900.1	8586.5	8451.3	9198.2	10128.7	11657.9	13615.4
37.5°	14500.8	14552.3	14069.3	12247.1	10328.2	9346.3	9272.3	9896.9	10782.2	12327.6	14465.4
40°	15225.2	15273.5	14645.7	12540.1	10779.0	10408.7	10598.7	11229.7	11670.8	12762.3	14890.3
42.5°	15627.6	15740.3	14838.9	12379.1	11683.7	11612.9	12456.4	12678.5	12701.0	12884.5	15270.3
45°	15737.0	15685.6	14520.1	12511.1	12475.7	13592.8	14359.1	14652.1	13724.9	13109.9	15366.8
47.5°	15231.6	15299.2	14050.1	12395.2	13515.6	15093.2	16084.8	16628.9	14487.9	12913.6	15128.6
50°	14822.7	14735.8	13898.7	12311.5	13795.7	15801.5	17330.7	17453.1	15189.7	13155.0	14867.8
52.5°	14903.2	14957.9	14140.2	12533.7	13802.2	15843.3	17523.9	17440.2	15212.3	13100.3	14774.4
55°	15073.8	14832.4	14037.1	12044.3	12878.1	14674.6	15553.5	15424.8	14040.4	12517.5	14545.9
57.5°	13006.9	13380.4	12907.1	10753.3	10569.7	11055.9	11039.8	11435.7	10473.1	10772.5	13242.0
60°	10556.8	10621.2	10798.4	9198.2	7314.8	7147.3	6915.5	6664.4	7047.6	9211.1	12044.3
62.5°	9285.1	9207.9	9838.9	8367.5	5164.2	4323.8	4285.2	4439.7	5437.8	8786.1	11297.3
65°	6748.2	6844.7	7301.9	6493.8	3876.3	3300.0	3242.1	3699.2	4401.1	7041.1	8621.9
67.5°	4121.0	4307.8	4349.6	4005.1	2630.4	2089.5	2005.8	2421.1	3177.7	4555.6	5054.7
70°	1902.8	2128.2	2340.6	2186.1	1522.8	859.6	811.3	1017.4	1603.4	2620.7	2681.9
72.5°	576.3	579.5	811.3	846.7	492.6	193.2	170.6	225.4	544.1	866.1	911.1
75°	41.9	45.1	109.5	125.6	93.4	48.3	51.6	61.1	115.9	193.2	144.9
77.5°	3.2	3.2	3.2	16.1	29.0	32.2	41.9	48.3	61.1	70.8	64.4
80°	3.2	0.0	3.2	12.9	22.5	32.2	38.6	45.1	48.3	54.7	48.3
82.5°	0.0	0.0	0.0	9.7	22.5	32.2	35.4	48.3	54.7	64.4	54.7
85°	0.0	0.0	0.0	9.7	22.5	35.4	32.2	16.1	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°	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0
2.5°	8776.4	8650.9	8364.3	8219.4	7878.2	7829.9	7495.1	7440.3	7327.6	7266.5	7118.4
5°	8029.5	7878.2	7411.4	7018.6	6561.4	6242.7	5998.0	5775.8	5647.1	5528.0	5582.6
7.5°	7421.0	6980.0	6461.6	5804.8	5276.9	4935.6	4562.1	4256.2	4075.9	3953.6	3982.6
10°	6783.6	6497.0	5775.8	5038.6	4401.1	4159.7	3866.7	3631.6	3377.3	3158.4	3055.4
12.5°	6583.9	6159.0	5254.3	4504.1	4021.2	3786.2	3451.4	3180.9	2855.7	2588.5	2495.2
15°	6619.3	6210.4	5112.6	4311.0	3741.1	3335.4	2936.2	2601.4	2244.0	2057.3	1960.7
17.5°	7195.7	6487.4	5206.0	4108.1	3351.6	2788.1	2295.5	1870.6	1603.4	1410.2	1368.3
20°	7904.0	7086.2	5405.6	3960.0	3032.8	2218.2	1677.4	1310.4	1088.2	1056.0	1046.4
22.5°	8940.7	8064.9	5833.8	3860.2	2643.3	1728.9	1149.4	953.0	891.8	885.4	888.6
25°	10389.5	9291.5	6300.6	3776.5	2350.3	1332.9	940.1	808.1	788.8	779.1	795.2
27.5°	11017.3	10032.0	6548.5	3596.2	2083.1	1200.9	927.2	801.6	746.9	730.8	740.5
30°	11793.2	10524.7	6938.1	3287.1	1690.2	988.4	866.1	872.5	846.7	766.2	740.5
32.5°	12823.4	11139.5	7134.5	3068.2	1509.9	817.8	634.3	582.7	650.3	663.2	685.8
35°	13483.4	11764.2	7234.3	2939.5	1416.6	698.6	537.7	489.4	473.2	476.5	489.4
37.5°	14710.0	12607.7	7359.8	2804.2	1345.8	608.5	486.2	441.1	418.6	418.6	431.4
40°	15444.1	13277.4	7530.5	2730.1	1275.0	553.8	441.1	402.4	383.2	383.2	389.6
42.5°	15627.6	13609.0	7472.5	2704.4	1194.5	540.8	402.4	373.5	350.9	347.7	344.5
45°	15956.0	14114.4	7482.2	2675.5	1110.7	492.6	379.9	347.7	315.5	312.3	309.1
47.5°	16316.6	14478.2	7501.6	2562.8	1030.2	412.1	396.0	321.9	283.3	276.9	276.9
50°	16007.5	14768.0	7668.9	2450.1	927.2	334.8	389.6	302.7	251.1	241.5	244.6
52.5°	16046.2	15109.2	8023.1	2292.3	798.4	267.2	315.5	286.5	228.6	212.5	215.7
55°	15428.0	14748.7	8071.3	2124.9	624.6	206.0	241.5	251.1	193.2	186.7	186.7
57.5°	13280.6	12488.6	7121.6	1722.5	412.1	170.6	173.8	218.9	167.4	161.0	164.2
60°	11364.9	10025.6	5730.7	1136.5	257.6	135.2	125.6	222.1	148.1	144.9	154.6
62.5°	10360.4	8238.8	4346.4	705.1	177.1	103.0	87.0	180.3	128.8	128.8	141.6
65°	7485.4	5534.4	2527.4	370.2	125.6	80.5	64.4	103.0	106.2	109.5	115.9
67.5°	4636.1	2794.6	1065.6	180.3	83.7	54.7	41.9	64.4	70.8	70.8	77.3
70°	2289.1	1114.0	354.1	103.0	64.4	45.1	29.0	35.4	35.4	32.2	35.4
72.5°	708.3	334.8	90.2	64.4	45.1	29.0	16.1	12.9	6.5	0.0	3.2
75°	80.5	64.4	57.9	45.1	29.0	12.9	3.2	0.0	0.0	0.0	0.0
77.5°	48.3	54.7	54.7	45.1	29.0	9.7	0.0	0.0	0.0	0.0	0.0
80°	38.6	41.9	45.1	41.9	25.7	12.9	0.0	0.0	0.0	0.0	0.0
82.5°	48.3	54.7	61.1	54.7	35.4	16.1	6.5	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.7	3.2	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°	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0
2.5°	7057.3	6986.4	7086.2	6938.1	6934.9	6938.1	6896.2	6857.6	6918.7	7083.0	7099.0
5°	5386.3	5537.6	5585.9	5743.6	5656.7	5528.0	5553.7	5466.8	5679.3	5772.6	5698.6
7.5°	3921.4	3911.7	4236.9	4256.2	4298.1	4301.3	4294.8	4124.3	3950.3	3989.0	4104.9
10°	3042.5	2878.2	3036.0	3019.9	3123.0	3094.0	3135.8	2952.3	3013.5	3013.5	3087.6
12.5°	2479.0	2305.2	2276.3	2234.4	2276.3	2292.3	2308.4	2273.0	2376.0	2424.4	2475.8
15°	1893.1	1796.5	1770.7	1690.2	1703.1	1748.2	1786.9	1802.9	1770.7	1844.8	1851.2
17.5°	1374.8	1371.5	1387.6	1384.4	1371.5	1361.8	1358.6	1316.8	1303.9	1310.4	1336.1
20°	1043.1	1068.9	1123.6	1178.3	1207.3	1171.9	1123.6	1052.8	1023.8	1030.2	1033.5
22.5°	891.8	930.5	1004.5	1065.6	1094.6	1030.2	943.3	882.1	869.3	866.1	862.9
25°	808.1	853.2	907.9	927.2	924.0	885.4	821.0	795.2	788.8	782.4	753.4
27.5°	763.0	779.1	788.8	811.3	821.0	795.2	779.1	740.5	734.0	734.0	714.8
30°	737.3	727.6	740.5	724.4	737.3	718.0	721.2	721.2	705.1	711.5	711.5
32.5°	685.8	688.9	688.9	656.8	666.4	643.9	666.4	685.8	688.9	692.2	718.0
35°	502.2	560.2	589.2	589.2	598.8	582.7	579.5	557.0	528.0	499.0	486.2
37.5°	441.1	463.6	502.2	524.8	540.8	528.0	499.0	463.6	447.5	434.6	421.8
40°	392.7	412.1	437.8	463.6	495.8	479.7	434.6	418.6	399.2	399.2	386.4
42.5°	354.1	363.8	379.9	418.6	454.0	421.8	389.6	376.7	367.0	363.8	360.6
45°	318.7	321.9	338.1	370.2	412.1	379.9	347.7	331.6	334.8	338.1	334.8
47.5°	286.5	293.0	302.7	341.3	367.0	350.9	315.5	305.9	305.9	305.9	309.1
50°	247.9	264.0	283.3	315.5	334.8	325.2	296.2	283.3	276.9	276.9	280.1
52.5°	222.1	235.1	260.8	299.4	325.2	309.1	280.1	260.8	247.9	244.6	251.1
55°	193.2	215.7	257.6	286.5	321.9	305.9	273.7	251.1	228.6	225.4	225.4
57.5°	173.8	209.2	247.9	283.3	312.3	299.4	273.7	244.6	215.7	212.5	212.5
60°	164.2	202.8	241.5	273.7	312.3	293.0	270.5	238.3	206.0	206.0	202.8
62.5°	154.6	190.0	228.6	260.8	299.4	283.3	260.8	228.6	196.4	196.4	190.0
65°	128.8	164.2	190.0	218.9	260.8	244.6	222.1	199.6	173.8	167.4	170.6
67.5°	90.2	112.7	138.4	167.4	193.2	186.7	177.1	161.0	138.4	135.2	132.0
70°	45.1	61.1	83.7	112.7	135.2	128.8	122.4	109.5	96.5	93.4	93.4
72.5°	6.5	19.3	35.4	51.6	70.8	74.0	70.8	67.6	64.4	61.1	64.4
75°	0.0	0.0	0.0	12.9	29.0	35.4	41.9	48.3	48.3	41.9	51.6
77.5°	0.0	0.0	0.0	0.0	3.2	16.1	32.2	41.9	51.6	45.1	61.1
80°	0.0	0.0	0.0	0.0	3.2	19.3	32.2	45.1	51.6	45.1	64.4
82.5°	0.0	0.0	0.0	0.0	3.2	22.5	32.2	41.9	48.3	45.1	57.9
85°	0.0	0.0	0.0	0.0	9.7	19.3	12.9	6.5	3.2	3.2	9.7
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-SA5C-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0	8300.0
2.5°	7189.2	7417.8	7662.5	7755.9	8045.6	8264.5	8412.6	8731.3	8779.7	8782.9
5°	5775.8	5891.7	6310.3	6506.6	6938.1	7273.0	7630.3	8145.4	8489.9	8515.6
7.5°	4104.9	4426.9	4604.0	5115.8	5647.1	6171.8	6703.1	7301.9	7701.1	7710.8
10°	3303.3	3512.5	3828.1	4211.1	4658.6	5193.1	5901.4	6596.8	7002.5	7102.3
12.5°	2659.3	3026.3	3387.0	3783.0	4124.3	4526.7	5289.7	6216.9	6551.7	6751.4
15°	2047.6	2382.5	2807.4	3271.1	3657.4	4195.1	5064.3	6123.6	6687.0	6754.6
17.5°	1509.9	1809.4	2202.2	2640.0	3219.5	3982.6	5102.9	6596.8	7128.1	7240.8
20°	1085.0	1258.8	1567.9	2076.6	2813.9	3734.6	5141.6	7076.5	7884.6	8077.8
22.5°	859.6	930.5	1133.2	1584.0	2359.9	3473.9	5415.3	7994.1	8924.5	9204.7
25°	746.9	785.6	882.1	1249.1	2073.4	3448.1	5853.1	9095.2	10309.0	10511.7
27.5°	721.2	727.6	811.3	1146.1	1918.8	3277.5	6020.6	9877.5	11171.8	11377.8
30°	759.8	862.9	869.3	969.1	1632.3	2939.5	6107.4	10634.1	11902.6	12054.0
32.5°	656.8	624.6	647.1	750.2	1435.9	2743.0	6271.7	11294.1	12736.4	12842.7
35°	457.2	479.7	531.3	650.3	1255.6	2537.0	6313.5	12021.8	13528.5	13637.9
37.5°	421.8	434.6	476.5	553.8	1104.3	2421.1	6255.5	12552.9	14349.5	14500.8
40°	392.7	408.9	431.4	502.2	991.6	2292.3	6175.0	13032.6	14851.7	15225.2
42.5°	370.2	383.2	402.4	479.7	895.0	2163.6	6062.3	13708.8	15302.4	15627.6
45°	344.5	363.8	386.4	466.8	840.3	2076.6	5978.7	13666.9	15563.2	15737.0
47.5°	318.7	350.9	376.7	434.6	824.2	2034.7	6014.1	13509.2	15350.8	15231.6
50°	293.0	334.8	379.9	360.6	785.6	1951.0	6056.0	13724.9	14845.2	14822.7
52.5°	270.5	318.7	354.1	296.2	698.6	1870.6	6461.6	14008.2	15202.7	14903.2
55°	238.3	286.5	283.3	238.3	566.7	1809.4	6780.3	14014.6	14961.1	15073.8
57.5°	215.7	254.3	222.1	199.6	418.6	1513.2	6262.0	11751.3	12807.3	13006.9
60°	199.6	247.9	167.4	157.8	273.7	1091.4	5466.8	9101.6	10180.1	10556.8
62.5°	183.5	235.1	132.0	128.8	190.0	775.9	4494.5	7617.4	8773.2	9285.1
65°	161.0	167.4	106.2	99.8	135.2	418.6	2736.6	5244.6	6558.2	6748.2
67.5°	132.0	128.8	87.0	80.5	90.2	202.8	1207.3	2627.1	3802.2	4121.0
70°	106.2	106.2	74.0	64.4	64.4	93.4	315.5	1046.4	1719.3	1902.8
72.5°	77.3	80.5	57.9	51.6	48.3	45.1	51.6	209.2	450.8	576.3
75°	67.6	70.8	57.9	45.1	35.4	29.0	22.5	19.3	25.7	41.9
77.5°	74.0	74.0	61.1	41.9	32.2	22.5	12.9	6.5	6.5	3.2
80°	93.4	96.5	80.5	54.7	38.6	25.7	16.1	6.5	3.2	3.2
82.5°	99.8	109.5	90.2	67.6	48.3	29.0	16.1	3.2	0.0	0.0
85°	25.7	41.9	70.8	61.1	48.3	29.0	16.1	3.2	0.0	0.0
87.5°	0.0	3.2	9.7	9.7	12.9	12.9	9.7	3.2	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)