

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: P651019

Luminaire Tested: **GALN-SA7C-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651019
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-SA7C-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 22766.7 lumens
Efficiency: N/A
Efficacy: 60.4 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

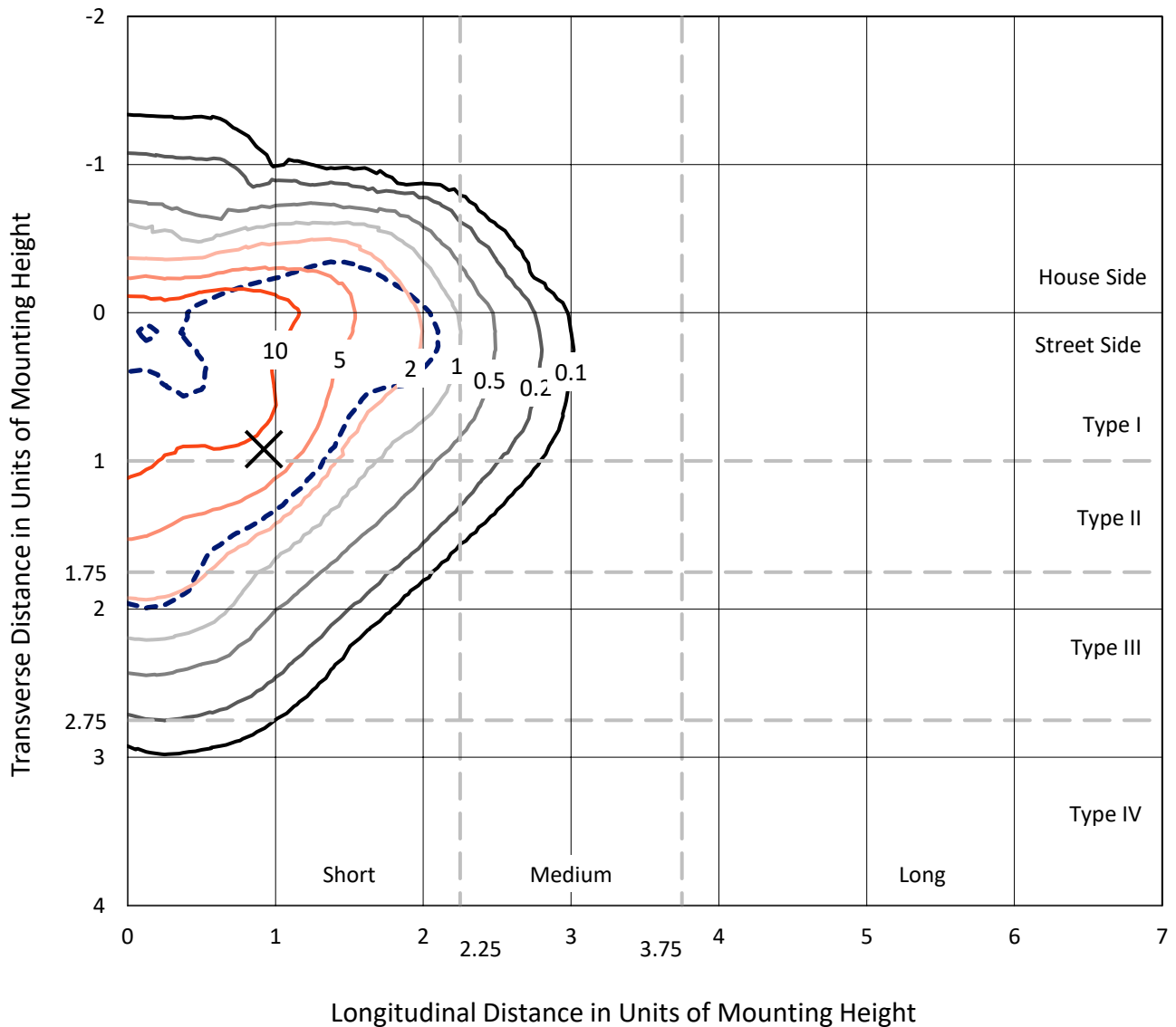
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

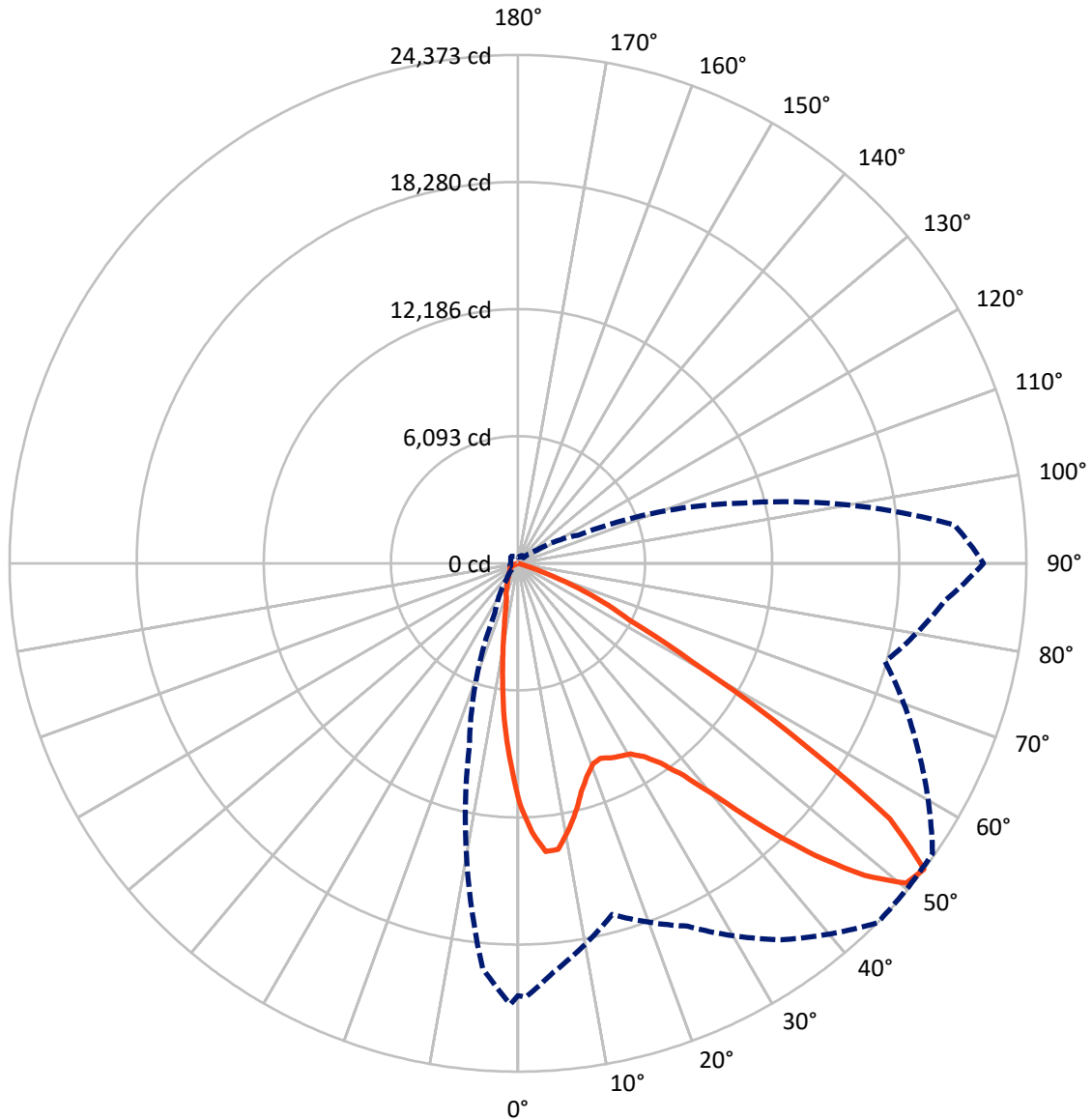
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 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	4620.5	0.0	4620.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	18146.2	0.0	18146.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	22766.7	0.0	22766.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.9	3.7
10°-20°	1661.0	7.3
20°-30°	2527.7	11.1
30°-40°	3778.0	16.6
40°-50°	5380.2	23.6
50°-60°	5783.6	25.4
60°-70°	2562.8	11.3
70°-80°	207.4	0.9
80°-90°	24.2	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°	22766.7	100.0
0°-180°	22766.7	100.0

Coefficient of Utilization

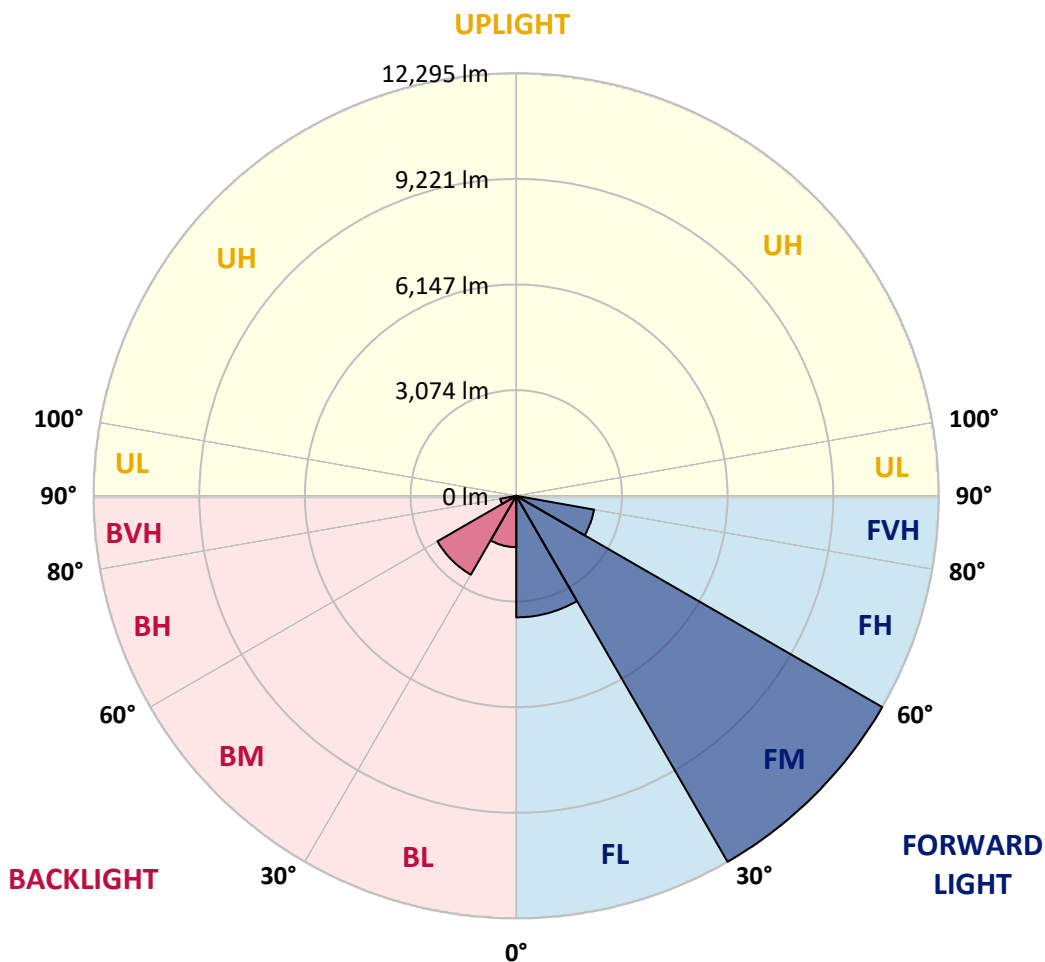


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3536.1	15.5			
FM (30°-60°)	12294.7	54.0			
FH (60°-80°)	2297.4	10.1			G2/5000
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	1494.5	6.6	B3/2500		
BM (30°-60°)	2647.0	11.6	B3/5000		
BH (60°-80°)	472.8	2.1	B1/500		G1/500
BVH (80°-90°)	6.3	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-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8
2.5°	12215.4	12251.3	12448.3	12694.6	12824.4	13119.9	12914.0	12967.7	12855.8	12461.8	12152.8
5°	11843.8	11839.3	12090.0	12699.0	13276.7	13863.3	13881.2	13567.8	13017.0	12412.5	11548.3
7.5°	10724.3	10898.9	11158.7	12130.3	13200.6	13639.4	13849.8	13482.7	12636.4	11772.1	10836.3
10°	9878.0	9967.6	10406.4	11579.6	12363.2	12949.8	13079.7	12869.2	12219.9	11140.8	10093.0
12.5°	9389.9	9434.8	9949.7	10934.8	11763.2	12197.5	12260.3	12358.7	11893.1	10881.0	9622.8
15°	9394.5	9430.2	10124.3	10948.2	11275.1	11158.7	11364.7	11360.2	11561.7	10831.8	10016.8
17.5°	10070.6	10110.9	10737.8	11145.3	11002.0	10728.8	10715.3	10921.4	11346.8	11445.3	10612.4
20°	11234.8	11328.9	11790.1	11767.7	10961.7	10410.9	10258.7	10415.4	11405.0	11964.7	11812.4
22.5°	12802.0	12931.9	13254.3	12636.4	11145.3	10195.9	10146.7	10451.2	11790.1	13124.5	13173.7
25°	14620.0	14839.4	14996.2	14203.6	11799.0	10567.6	10334.8	10858.7	12309.5	14382.7	14906.6
27.5°	15824.6	16052.9	16017.1	14884.2	12237.8	10666.2	10469.1	10957.2	12761.8	14682.7	15811.1
30°	16764.9	16903.7	17154.5	15251.4	12676.6	10943.8	10608.0	11373.6	12909.5	15202.2	16903.7
32.5°	17862.0	17956.0	17973.9	15900.7	13352.8	11293.0	11037.8	11893.1	13563.3	15699.2	17870.9
35°	18968.0	19106.8	18815.8	16702.2	13769.3	11942.3	11754.2	12793.1	14087.2	16214.1	18936.6
37.5°	20168.0	20239.7	19568.0	17033.5	14364.8	12999.1	12896.1	13764.7	14996.2	17145.6	20118.7
40°	21175.5	21242.7	20369.5	17441.1	14991.7	14476.7	14741.0	15618.5	16232.1	17750.0	20709.9
42.5°	21735.2	21892.0	20638.2	17217.1	16250.0	16151.4	17324.6	17633.6	17665.0	17920.2	21238.2
45°	21887.5	21815.9	20194.9	17400.7	17351.5	18905.3	19971.0	20378.5	19088.8	18233.6	21372.6
47.5°	21184.5	21278.6	19541.1	17239.6	18797.9	20991.9	22371.1	23127.8	20150.1	17960.5	21041.2
50°	20615.9	20494.9	19330.7	17123.1	19187.4	21977.1	24104.0	24274.2	21126.3	18296.3	20678.5
52.5°	20727.8	20803.9	19666.5	17432.1	19196.3	22035.3	24372.7	24256.3	21157.6	18220.2	20548.7
55°	20965.1	20629.2	19523.2	16751.5	17911.2	20409.8	21632.3	21453.2	19527.7	17409.7	20230.8
57.5°	18090.3	18609.7	17951.5	14955.8	14700.6	15376.8	15354.4	15905.2	14566.3	14982.8	18417.2
60°	14682.7	14772.2	15018.6	12793.1	10173.6	9940.7	9618.3	9269.1	9801.9	12811.0	16751.5
62.5°	12914.0	12806.5	13684.2	11637.8	7182.4	6013.7	5960.0	6174.9	7563.0	12219.9	15712.7
65°	9385.5	9519.8	10155.7	9031.8	5391.3	4589.8	4509.2	5145.0	6121.1	9792.9	11991.6
67.5°	5731.6	5991.3	6049.5	5570.4	3658.4	2906.1	2789.7	3367.3	4419.6	6336.1	7030.2
70°	2646.4	2959.8	3255.3	3040.5	2118.0	1195.6	1128.4	1415.0	2229.9	3644.9	3730.0
72.5°	801.6	806.0	1128.4	1177.7	685.1	268.7	237.3	313.4	756.7	1204.6	1267.2
75°	58.2	62.7	152.2	174.7	129.9	67.2	71.7	85.1	161.2	268.7	201.5
77.5°	4.5	4.5	4.5	22.4	40.3	44.7	58.2	67.2	85.1	98.5	89.6
80°	4.5	0.0	4.5	17.9	31.4	44.7	53.7	62.7	67.2	76.1	67.2
82.5°	0.0	0.0	0.0	13.5	31.4	44.7	49.3	67.2	76.1	89.6	76.1
85°	0.0	0.0	0.0	13.5	31.4	49.3	44.7	22.4	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°	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8
2.5°	12206.5	12031.9	11633.3	11431.8	10957.2	10890.0	10424.4	10348.2	10191.5	10106.4	9900.4
5°	11167.6	10957.2	10307.9	9761.7	9125.8	8682.5	8342.1	8033.1	7854.1	7688.4	7764.5
7.5°	10321.3	9707.9	8986.9	8073.5	7339.2	6864.5	6345.0	5919.6	5668.9	5498.7	5539.1
10°	9434.8	9036.2	8033.1	7007.8	6121.1	5785.3	5377.9	5051.0	4697.2	4392.7	4249.4
12.5°	9157.1	8566.0	7307.8	6264.4	5592.8	5265.9	4800.2	4424.1	3971.8	3600.2	3470.3
15°	9206.3	8637.7	7110.7	5995.7	5203.2	4639.0	4083.7	3618.1	3121.0	2861.3	2726.9
17.5°	10007.9	9022.8	7240.6	5713.7	4661.4	3877.8	3192.7	2601.6	2229.9	1961.3	1903.1
20°	10993.0	9855.7	7518.2	5507.7	4218.1	3085.2	2332.9	1822.4	1513.5	1468.7	1455.3
22.5°	12434.9	11216.9	8113.8	5368.9	3676.3	2404.6	1598.6	1325.4	1240.4	1231.4	1235.8
25°	14449.9	12923.0	8763.1	5252.5	3268.8	1853.8	1307.5	1123.9	1097.1	1083.6	1106.0
27.5°	15323.0	13952.9	9107.9	5001.7	2897.2	1670.2	1289.6	1115.0	1038.9	1016.4	1029.9
30°	16402.2	14637.9	9649.6	4571.8	2350.8	1374.7	1204.6	1213.5	1177.7	1065.7	1029.9
32.5°	17835.1	15493.2	9922.8	4267.3	2100.1	1137.4	882.1	810.5	904.5	922.4	953.8
35°	18753.0	16361.9	10061.6	4088.3	1970.2	971.7	747.8	680.6	658.3	662.7	680.6
37.5°	20459.1	17535.1	10236.2	3900.1	1871.7	846.3	676.2	613.4	582.1	582.1	600.1
40°	21480.1	18466.4	10473.6	3797.2	1773.2	770.2	613.4	559.7	532.9	532.9	541.9
42.5°	21735.2	18927.7	10393.0	3761.4	1661.2	752.3	559.7	519.4	488.1	483.6	479.1
45°	22192.0	19630.7	10406.4	3721.1	1544.8	685.1	528.4	483.6	438.8	434.4	429.8
47.5°	22693.5	20136.7	10433.3	3564.3	1432.9	573.1	550.8	447.7	394.0	385.1	385.1
50°	22263.6	20539.7	10666.2	3407.6	1289.6	465.7	541.9	420.9	349.3	335.8	340.4
52.5°	22317.4	21014.3	11158.7	3188.2	1110.5	371.6	438.8	398.5	317.9	295.5	300.0
55°	21457.6	20512.8	11225.8	2955.4	868.7	286.6	335.8	349.3	268.7	259.7	259.7
57.5°	18471.0	17369.4	9904.9	2395.6	573.1	237.3	241.8	304.5	232.9	223.9	228.3
60°	15806.7	13943.9	7970.5	1580.7	358.3	188.0	174.7	309.0	206.0	201.5	215.0
62.5°	14409.6	11458.7	6045.0	980.6	246.2	143.3	120.9	250.8	179.1	179.1	197.0
65°	10410.9	7697.3	3515.0	514.9	174.7	111.9	89.6	143.3	147.8	152.2	161.2
67.5°	6448.0	3886.8	1482.2	250.8	116.4	76.1	58.2	89.6	98.5	98.5	107.5
70°	3183.7	1549.3	492.6	143.3	89.6	62.7	40.3	49.3	49.3	44.7	49.3
72.5°	985.1	465.7	125.4	89.6	62.7	40.3	22.4	17.9	8.9	0.0	4.5
75°	111.9	89.6	80.6	62.7	40.3	17.9	4.5	0.0	0.0	0.0	0.0
77.5°	67.2	76.1	76.1	62.7	40.3	13.5	0.0	0.0	0.0	0.0	0.0
80°	53.7	58.2	62.7	58.2	35.8	17.9	0.0	0.0	0.0	0.0	0.0
82.5°	67.2	76.1	85.1	76.1	49.3	22.4	8.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	13.5	4.5	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°	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8
2.5°	9815.3	9716.8	9855.7	9649.6	9645.2	9649.6	9591.4	9537.7	9622.8	9851.1	9873.6
5°	7491.4	7701.8	7769.0	7988.4	7867.5	7688.4	7724.2	7603.3	7898.8	8028.7	7925.8
7.5°	5454.0	5440.5	5892.8	5919.6	5977.8	5982.4	5973.4	5736.0	5494.3	5548.0	5709.2
10°	4231.5	4003.2	4222.6	4200.2	4343.4	4303.1	4361.3	4106.2	4191.2	4191.2	4294.2
12.5°	3447.9	3206.1	3165.8	3107.6	3165.8	3188.2	3210.6	3161.3	3304.6	3371.8	3443.4
15°	2632.9	2498.6	2462.8	2350.8	2368.8	2431.4	2485.2	2507.6	2462.8	2565.8	2574.7
17.5°	1912.0	1907.6	1929.9	1925.5	1907.6	1894.1	1889.6	1831.4	1813.5	1822.4	1858.3
20°	1450.8	1486.6	1562.7	1638.9	1679.1	1629.9	1562.7	1464.3	1424.0	1432.9	1437.4
22.5°	1240.4	1294.0	1397.1	1482.2	1522.5	1432.9	1312.0	1226.9	1209.0	1204.6	1200.0
25°	1123.9	1186.7	1262.8	1289.6	1285.1	1231.4	1141.8	1106.0	1097.1	1088.1	1047.8
27.5°	1061.3	1083.6	1097.1	1128.4	1141.8	1106.0	1083.6	1029.9	1021.0	1021.0	994.1
30°	1025.4	1012.0	1029.9	1007.5	1025.4	998.5	1003.1	1003.1	980.6	989.6	989.6
32.5°	953.8	958.2	958.2	913.5	926.9	895.6	926.9	953.8	958.2	962.7	998.5
35°	698.5	779.1	819.5	819.5	832.8	810.5	806.0	774.6	734.4	694.1	676.2
37.5°	613.4	644.8	698.5	729.9	752.3	734.4	694.1	644.8	622.4	604.5	586.6
40°	546.3	573.1	609.0	644.8	689.6	667.2	604.5	582.1	555.2	555.2	537.3
42.5°	492.6	506.0	528.4	582.1	631.3	586.6	541.9	523.9	510.5	506.0	501.5
45°	443.3	447.7	470.2	514.9	573.1	528.4	483.6	461.2	465.7	470.2	465.7
47.5°	398.5	407.5	420.9	474.7	510.5	488.1	438.8	425.4	425.4	425.4	429.8
50°	344.8	367.2	394.0	438.8	465.7	452.3	411.9	394.0	385.1	385.1	389.6
52.5°	309.0	326.9	362.7	416.5	452.3	429.8	389.6	362.7	344.8	340.4	349.3
55°	268.7	300.0	358.3	398.5	447.7	425.4	380.6	349.3	317.9	313.4	313.4
57.5°	241.8	291.1	344.8	394.0	434.4	416.5	380.6	340.4	300.0	295.5	295.5
60°	228.3	282.1	335.8	380.6	434.4	407.5	376.1	331.4	286.6	286.6	282.1
62.5°	215.0	264.2	317.9	362.7	416.5	394.0	362.7	317.9	273.2	273.2	264.2
65°	179.1	228.3	264.2	304.5	362.7	340.4	309.0	277.6	241.8	232.9	237.3
67.5°	125.4	156.8	192.5	232.9	268.7	259.7	246.2	223.9	192.5	188.0	183.6
70°	62.7	85.1	116.4	156.8	188.0	179.1	170.1	152.2	134.3	129.9	129.9
72.5°	8.9	26.8	49.3	71.7	98.5	103.0	98.5	94.0	89.6	85.1	89.6
75°	0.0	0.0	0.0	17.9	40.3	49.3	58.2	67.2	67.2	58.2	71.7
77.5°	0.0	0.0	0.0	0.0	4.5	22.4	44.7	58.2	71.7	62.7	85.1
80°	0.0	0.0	0.0	0.0	4.5	26.8	44.7	62.7	71.7	62.7	89.6
82.5°	0.0	0.0	0.0	0.0	4.5	31.4	44.7	58.2	67.2	62.7	80.6
85°	0.0	0.0	0.0	0.0	13.5	26.8	17.9	8.9	4.5	4.5	13.5
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-SA7C-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8	11543.8
2.5°	9998.9	10316.9	10657.2	10787.0	11190.0	11494.5	11700.5	12143.8	12211.0	12215.4
5°	8033.1	8194.4	8776.5	9049.7	9649.6	10115.4	10612.4	11328.9	11808.0	11843.8
7.5°	5709.2	6157.0	6403.3	7115.2	7854.1	8583.9	9322.8	10155.7	10710.9	10724.3
10°	4594.2	4885.3	5324.1	5857.0	6479.4	7222.7	8207.8	9175.1	9739.2	9878.0
12.5°	3698.6	4209.1	4710.6	5261.4	5736.0	6295.8	7357.1	8646.7	9112.3	9389.9
15°	2847.9	3313.5	3904.7	4549.5	5086.8	5834.6	7043.6	8516.8	9300.4	9394.5
17.5°	2100.1	2516.5	3062.8	3671.8	4477.8	5539.1	7097.3	9175.1	9913.9	10070.6
20°	1509.0	1750.8	2180.7	2888.2	3913.6	5194.3	7151.0	9842.2	10966.1	11234.8
22.5°	1195.6	1294.0	1576.2	2203.1	3282.3	4831.5	7531.7	11118.4	12412.5	12802.0
25°	1038.9	1092.5	1226.9	1737.4	2883.7	4795.7	8140.6	12649.8	14338.0	14620.0
27.5°	1003.1	1012.0	1128.4	1594.1	2668.7	4558.4	8373.5	13737.9	15538.0	15824.6
30°	1056.8	1200.0	1209.0	1347.8	2270.3	4088.3	8494.4	14790.2	16554.4	16764.9
32.5°	913.5	868.7	900.0	1043.3	1997.1	3815.1	8722.8	15708.1	17714.2	17862.0
35°	635.9	667.2	738.8	904.5	1746.3	3528.5	8781.0	16720.1	18815.8	18968.0
37.5°	586.6	604.5	662.7	770.2	1535.9	3367.3	8700.4	17459.0	19957.6	20168.0
40°	546.3	568.7	600.1	698.5	1379.2	3188.2	8588.5	18126.2	20656.1	21175.5
42.5°	514.9	532.9	559.7	667.2	1244.8	3009.1	8431.7	19066.5	21283.0	21735.2
45°	479.1	506.0	537.3	649.3	1168.7	2888.2	8315.3	19008.3	21645.7	21887.5
47.5°	443.3	488.1	523.9	604.5	1146.3	2830.0	8364.5	18788.9	21350.2	21184.5
50°	407.5	465.7	528.4	501.5	1092.5	2713.6	8422.8	19088.8	20647.1	20615.9
52.5°	376.1	443.3	492.6	411.9	971.7	2601.6	8986.9	19482.9	21144.2	20727.8
55°	331.4	398.5	394.0	331.4	788.1	2516.5	9430.2	19491.9	20808.4	20965.1
57.5°	300.0	353.7	309.0	277.6	582.1	2104.6	8709.3	16344.0	17812.7	18090.3
60°	277.6	344.8	232.9	219.4	380.6	1518.0	7603.3	12658.7	14158.8	14682.7
62.5°	255.2	326.9	183.6	179.1	264.2	1079.2	6251.0	10594.5	12202.0	12914.0
65°	223.9	232.9	147.8	138.8	188.0	582.1	3806.1	7294.3	9121.3	9385.5
67.5°	183.6	179.1	120.9	111.9	125.4	282.1	1679.1	3653.9	5288.3	5731.6
70°	147.8	147.8	103.0	89.6	89.6	129.9	438.8	1455.3	2391.1	2646.4
72.5°	107.5	111.9	80.6	71.7	67.2	62.7	71.7	291.1	626.9	801.6
75°	94.0	98.5	80.6	62.7	49.3	40.3	31.4	26.8	35.8	58.2
77.5°	103.0	103.0	85.1	58.2	44.7	31.4	17.9	8.9	8.9	4.5
80°	129.9	134.3	111.9	76.1	53.7	35.8	22.4	8.9	4.5	4.5
82.5°	138.8	152.2	125.4	94.0	67.2	40.3	22.4	4.5	0.0	0.0
85°	35.8	58.2	98.5	85.1	67.2	40.3	22.4	4.5	0.0	0.0
87.5°	0.0	4.5	13.5	13.5	17.9	17.9	13.5	4.5	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)