

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: P534085

Luminaire Tested: **GALN-SA9C-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534085  
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-SA9C-740-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 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: 35235 lumens  
Efficiency: N/A  
Efficacy: 73.3 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

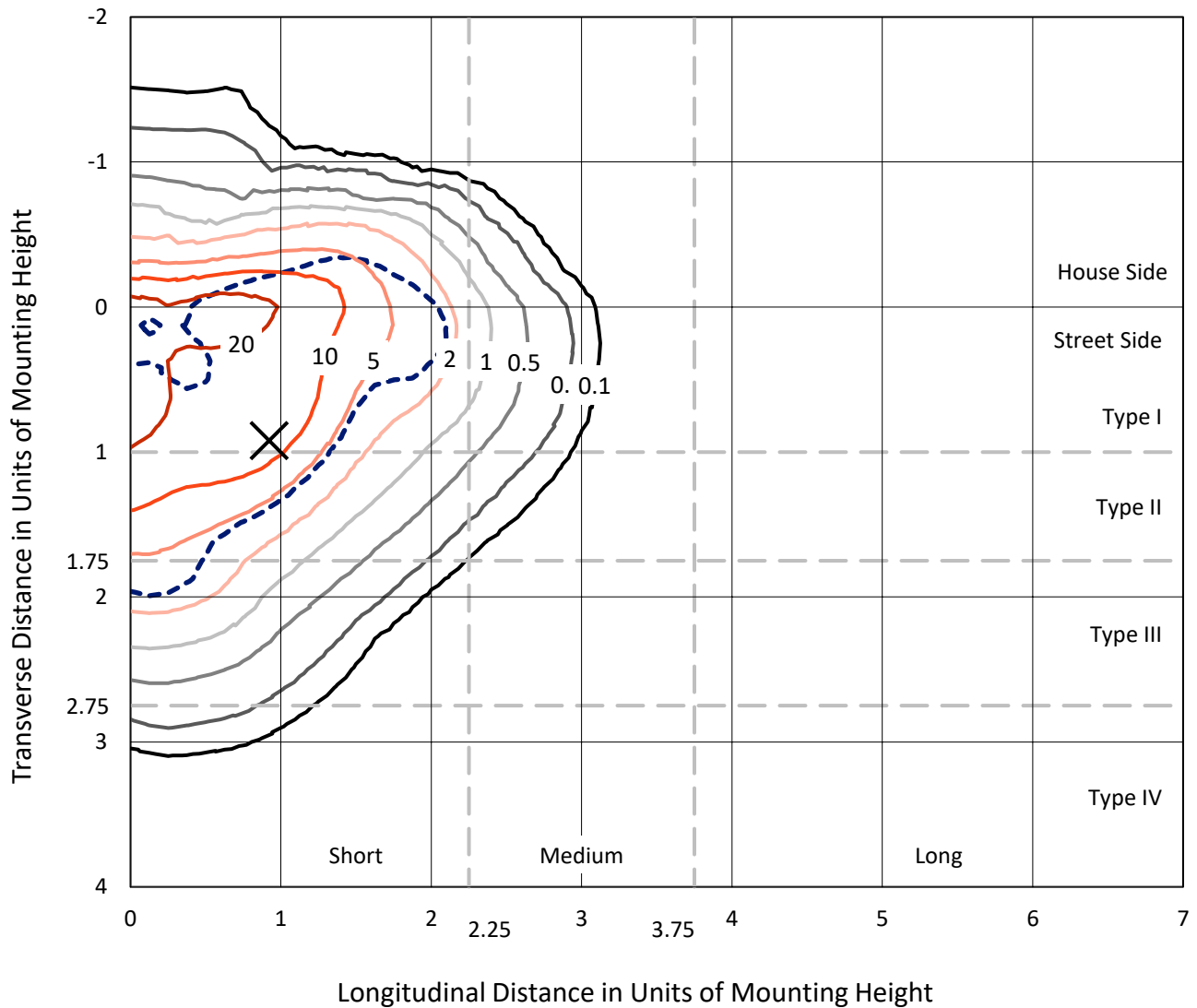
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

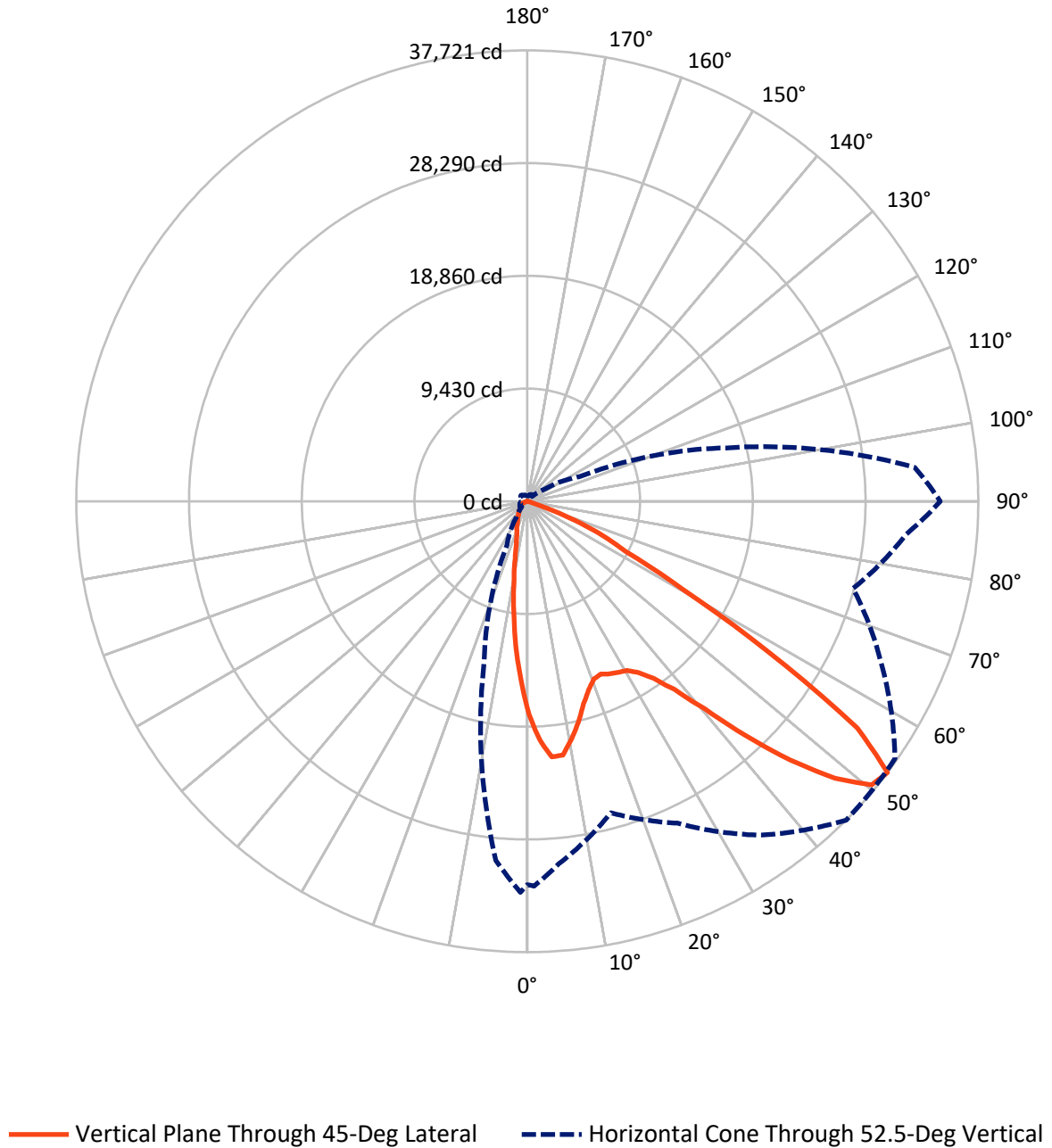
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7151.0	0.0	7151.0
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	28084.0	0.0	28084.0
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	35235.0	0.0	35235.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1302.9	3.7
10°-20°	2570.6	7.3
20°-30°	3912.1	11.1
30°-40°	5847.0	16.6
40°-50°	8326.7	23.6
50°-60°	8951.0	25.4
60°-70°	3966.4	11.3
70°-80°	320.9	0.9
80°-90°	37.4	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°	35235.0	100.0
0°-180°	35235.0	100.0

**Coefficient of Utilization**

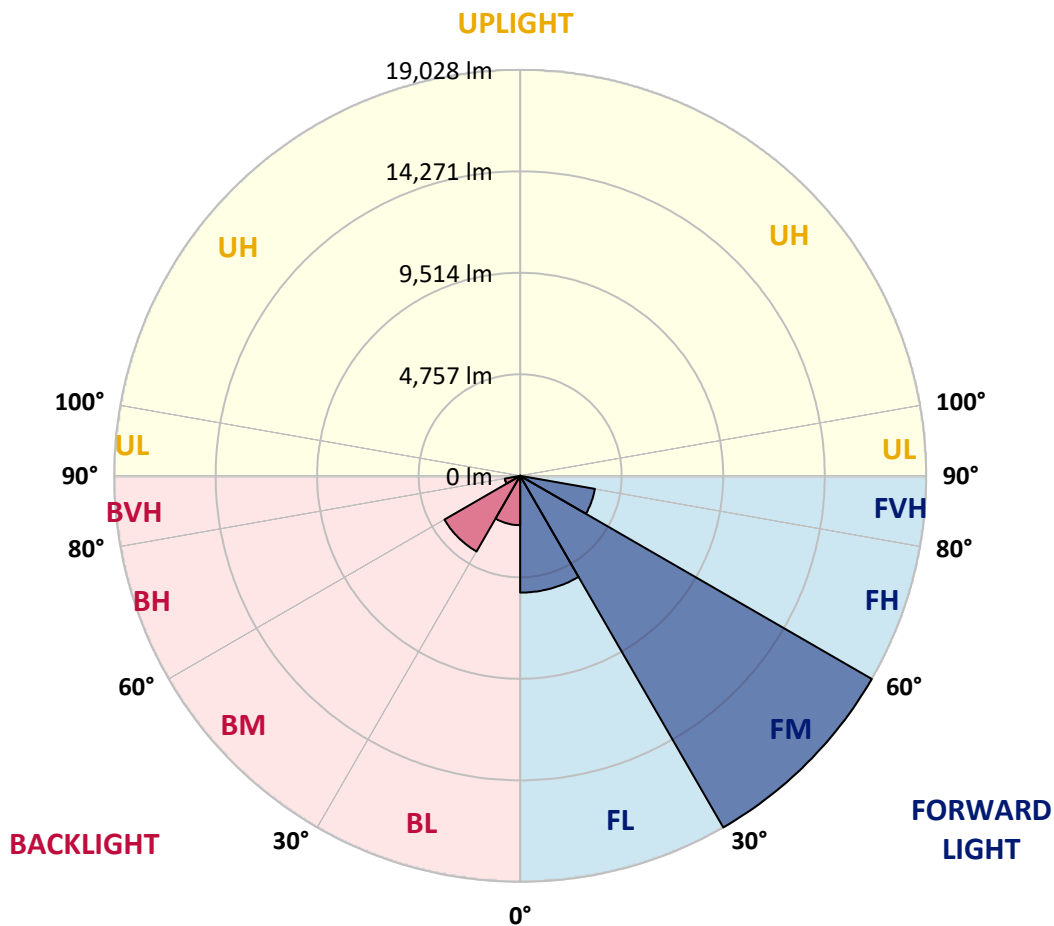


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5472.7	15.5			
FM (30°-60°)	19028.0	54.0			
FH (60°-80°)	3555.6	10.1			G2/5000
FVH (80°-90°)	27.7	0.1			G1/100
BL (0°-30°)	2312.9	6.6	B3/2500		
BM (30°-60°)	4096.7	11.6	B3/5000		
BH (60°-80°)	731.7	2.1	B2/1000		G2/1000
BVH (80°-90°)	9.7	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°	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8
2.5°	18905.3	18960.7	19265.7	19646.8	19847.8	20305.2	19986.4	20069.6	19896.3	19286.5	18808.3
5°	18330.1	18323.2	18711.3	19653.7	20547.7	21455.6	21483.3	20998.2	20145.8	19210.2	17872.7
7.5°	16597.6	16867.8	17269.8	18773.6	20429.9	21109.1	21434.8	20866.5	19556.7	18219.2	16770.8
10°	15287.8	15426.4	16105.5	17921.2	19134.0	20041.8	20242.8	19917.1	18912.2	17242.1	15620.4
12.5°	14532.4	14601.7	15398.7	16923.3	18205.4	18877.6	18974.6	19127.1	18406.3	16840.1	14892.8
15°	14539.3	14594.8	15668.9	16944.1	17450.0	17269.8	17588.6	17581.6	17893.5	16763.9	15502.6
17.5°	15585.8	15648.2	16618.4	17249.0	17027.2	16604.5	16583.7	16902.5	17560.9	17713.3	16424.3
20°	17387.6	17533.1	18246.9	18212.3	16964.9	16112.5	15876.8	16119.4	17650.9	18517.2	18281.6
22.5°	19813.1	20014.1	20513.1	19556.7	17249.0	15779.8	15703.6	16174.8	18246.9	20312.1	20388.3
25°	22626.8	22966.3	23208.9	21982.3	18260.8	16355.0	15994.7	16805.5	19050.8	22259.5	23070.3
27.5°	24491.0	24844.4	24788.9	23035.6	18939.9	16507.5	16202.6	16957.9	19750.8	22723.8	24470.2
30°	25946.3	26161.1	26549.2	23603.9	19619.1	16937.2	16417.4	17602.4	19979.5	23527.7	26161.1
32.5°	27644.1	27789.7	27817.4	24608.8	20665.5	17477.7	17082.7	18406.3	20991.3	24296.9	27658.0
35°	29355.9	29570.7	29120.3	25849.3	21310.0	18482.6	18191.5	19799.3	21802.1	25093.9	29307.4
37.5°	31213.1	31324.0	30284.5	26362.1	22231.7	20118.1	19958.7	21303.1	23208.9	26535.3	31136.9
40°	32772.4	32876.4	31525.0	26992.7	23202.0	22405.0	22813.9	24172.2	25121.6	27470.9	32051.7
42.5°	33638.7	33881.2	31940.8	26646.2	25149.3	24996.8	26812.5	27290.7	27339.2	27734.2	32869.4
45°	33874.3	33763.4	31254.7	26930.3	26854.1	29258.9	30908.2	31538.9	29543.0	28219.3	33077.3
47.5°	32786.3	32931.8	30242.9	26680.9	29092.5	32488.3	34622.8	35793.9	31185.4	27796.6	32564.5
50°	31906.2	31719.0	29917.2	26500.7	29695.5	34012.9	37304.7	37568.0	32696.2	28316.4	32003.2
52.5°	32079.4	32197.2	30437.0	26978.9	29709.3	34103.0	37720.5	37540.3	32744.7	28198.6	31802.2
55°	32446.7	31926.9	30215.2	25925.5	27720.4	31587.4	33479.3	33202.1	30222.1	26944.2	31310.2
57.5°	27997.6	28801.5	27782.7	23146.5	22751.5	23797.9	23763.3	24615.7	22543.6	23188.1	28503.5
60°	22723.8	22862.4	23243.5	19799.3	15745.2	15384.8	14885.8	14345.3	15170.0	19827.0	25925.5
62.5°	19986.4	19820.1	21178.4	18011.3	11115.9	9307.1	9224.0	9556.6	11704.9	18912.2	24317.7
65°	14525.5	14733.4	15717.5	13978.0	8343.8	7103.3	6978.6	7962.7	9473.4	15156.1	18558.8
67.5°	8870.5	9272.5	9362.6	8621.0	5661.9	4497.6	4317.4	5211.4	6840.0	9806.1	10880.2
70°	4095.7	4580.8	5038.2	4705.5	3277.9	1850.3	1746.4	2189.9	3451.2	5641.1	5772.8
72.5°	1240.5	1247.4	1746.4	1822.6	1060.3	415.8	367.3	485.1	1171.2	1864.2	1961.2
75°	90.1	97.0	235.6	270.3	201.0	104.0	110.9	131.7	249.5	415.8	311.9
77.5°	6.9	6.9	6.9	34.7	62.4	69.3	90.1	104.0	131.7	152.5	138.6
80°	6.9	0.0	6.9	27.7	48.5	69.3	83.2	97.0	104.0	117.8	104.0
82.5°	0.0	0.0	0.0	20.8	48.5	69.3	76.2	104.0	117.8	138.6	117.8
85°	0.0	0.0	0.0	20.8	48.5	76.2	69.3	34.7	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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CATALOG NUMBER: GALN-SA9C-740-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8
2.5°	18891.4	18621.2	18004.4	17692.5	16957.9	16854.0	16133.3	16015.4	15772.9	15641.2	15322.4
5°	17283.7	16957.9	15953.1	15107.6	14123.5	13437.5	12910.8	12432.6	12155.4	11899.0	12016.8
7.5°	15973.9	15024.4	13908.7	12495.0	11358.4	10623.8	9819.9	9161.6	8773.5	8510.2	8572.5
10°	14601.7	13984.9	12432.6	10845.6	9473.4	8953.7	8323.0	7817.1	7269.7	6798.4	6576.7
12.5°	14172.0	13257.3	11309.9	9695.2	8655.7	8149.8	7429.1	6846.9	6147.0	5571.8	5370.8
15°	14248.3	13368.2	11005.0	9279.4	8052.8	7179.6	6320.2	5599.5	4830.3	4428.3	4220.4
17.5°	15488.8	13964.1	11206.0	8842.8	7214.2	6001.5	4941.2	4026.4	3451.2	3035.4	2945.3
20°	17013.4	15253.1	11635.6	8524.0	6528.1	4774.8	3610.6	2820.5	2342.4	2273.1	2252.3
22.5°	19244.9	17359.9	12557.3	8309.2	5689.6	3721.5	2474.0	2051.3	1919.6	1905.8	1912.7
25°	22363.4	20000.3	13562.2	8129.0	5059.0	2869.1	2023.6	1739.5	1697.9	1677.1	1711.7
27.5°	23714.8	21594.2	14095.8	7740.9	4483.8	2584.9	1995.9	1725.6	1607.8	1573.1	1593.9
30°	25384.9	22654.5	14934.4	7075.6	3638.3	2127.5	1864.2	1878.1	1822.6	1649.4	1593.9
32.5°	27602.6	23978.1	15357.1	6604.4	3250.2	1760.2	1365.2	1254.3	1399.9	1427.6	1476.1
35°	29023.2	25322.6	15571.9	6327.2	3049.2	1503.8	1157.3	1053.4	1018.7	1025.7	1053.4
37.5°	31663.6	27138.2	15842.2	6036.1	2896.8	1309.8	1046.4	949.4	900.9	900.9	928.6
40°	33243.7	28579.7	16209.5	5876.7	2744.3	1192.0	949.4	866.3	824.7	824.7	838.5
42.5°	33638.7	29293.5	16084.7	5821.3	2571.1	1164.3	866.3	803.9	755.4	748.5	741.5
45°	34345.5	30381.5	16105.5	5758.9	2390.9	1060.3	817.8	748.5	679.1	672.2	665.3
47.5°	35121.7	31164.6	16147.1	5516.4	2217.6	887.1	852.4	693.0	609.8	596.0	596.0
50°	34456.4	31788.3	16507.5	5273.8	1995.9	720.7	838.5	651.4	540.5	519.8	526.7
52.5°	34539.6	32522.9	17269.8	4934.2	1718.7	575.2	679.1	616.8	492.0	457.4	464.3
55°	33209.0	31746.8	17373.7	4573.9	1344.4	443.5	519.8	540.5	415.8	401.9	401.9
57.5°	28586.6	26881.8	15329.4	3707.6	887.1	367.3	374.2	471.2	360.4	346.5	353.4
60°	24463.2	21580.3	12335.6	2446.3	554.4	291.1	270.3	478.2	318.8	311.9	332.6
62.5°	22301.0	17734.1	9355.6	1517.7	381.2	221.8	187.1	388.1	277.2	277.2	304.9
65°	16112.5	11912.8	5440.1	797.0	270.3	173.3	138.6	221.8	228.7	235.6	249.5
67.5°	9979.3	6015.3	2293.9	388.1	180.2	117.8	90.1	138.6	152.5	152.5	166.3
70°	4927.3	2397.8	762.3	221.8	138.6	97.0	62.4	76.2	76.2	69.3	76.2
72.5°	1524.6	720.7	194.0	138.6	97.0	62.4	34.7	27.7	13.9	0.0	6.9
75°	173.3	138.6	124.7	97.0	62.4	27.7	6.9	0.0	0.0	0.0	0.0
77.5°	104.0	117.8	117.8	97.0	62.4	20.8	0.0	0.0	0.0	0.0	0.0
80°	83.2	90.1	97.0	90.1	55.4	27.7	0.0	0.0	0.0	0.0	0.0
82.5°	104.0	117.8	131.7	117.8	76.2	34.7	13.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	20.8	6.9	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°	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8
2.5°	15190.8	15038.3	15253.1	14934.4	14927.4	14934.4	14844.3	14761.1	14892.8	15246.2	15280.9
5°	11594.0	11919.8	12023.7	12363.3	12176.2	11899.0	11954.4	11767.3	12224.7	12425.7	12266.3
7.5°	8440.9	8420.1	9120.0	9161.6	9251.7	9258.6	9244.7	8877.5	8503.2	8586.4	8835.9
10°	6548.9	6195.5	6535.1	6500.4	6722.2	6659.8	6749.9	6354.9	6486.6	6486.6	6646.0
12.5°	5336.2	4961.9	4899.6	4809.5	4899.6	4934.2	4968.9	4892.6	5114.4	5218.4	5329.2
15°	4074.9	3867.0	3811.6	3638.3	3666.0	3763.0	3846.2	3880.9	3811.6	3970.9	3984.8
17.5°	2959.2	2952.2	2986.9	2979.9	2952.2	2931.4	2924.5	2834.4	2806.7	2820.5	2876.0
20°	2245.4	2300.8	2418.6	2536.4	2598.8	2522.6	2418.6	2266.1	2203.8	2217.6	2224.6
22.5°	1919.6	2002.8	2162.2	2293.9	2356.2	2217.6	2030.5	1898.8	1871.1	1864.2	1857.3
25°	1739.5	1836.5	1954.3	1995.9	1988.9	1905.8	1767.2	1711.7	1697.9	1684.0	1621.6
27.5°	1642.4	1677.1	1697.9	1746.4	1767.2	1711.7	1677.1	1593.9	1580.1	1580.1	1538.5
30°	1587.0	1566.2	1593.9	1559.3	1587.0	1545.4	1552.3	1552.3	1517.7	1531.6	1531.6
32.5°	1476.1	1483.0	1483.0	1413.7	1434.5	1386.0	1434.5	1476.1	1483.0	1490.0	1545.4
35°	1081.1	1205.8	1268.2	1268.2	1289.0	1254.3	1247.4	1198.9	1136.5	1074.2	1046.4
37.5°	949.4	997.9	1081.1	1129.6	1164.3	1136.5	1074.2	997.9	963.3	935.6	907.8
40°	845.5	887.1	942.5	997.9	1067.2	1032.6	935.6	900.9	859.3	859.3	831.6
42.5°	762.3	783.1	817.8	900.9	977.1	907.8	838.5	810.8	790.0	783.1	776.2
45°	686.1	693.0	727.7	797.0	887.1	817.8	748.5	713.8	720.7	727.7	720.7
47.5°	616.8	630.6	651.4	734.6	790.0	755.4	679.1	658.4	658.4	658.4	665.3
50°	533.6	568.3	609.8	679.1	720.7	699.9	637.6	609.8	596.0	596.0	602.9
52.5°	478.2	505.9	561.3	644.5	699.9	665.3	602.9	561.3	533.6	526.7	540.5
55°	415.8	464.3	554.4	616.8	693.0	658.4	589.1	540.5	492.0	485.1	485.1
57.5°	374.2	450.5	533.6	609.8	672.2	644.5	589.1	526.7	464.3	457.4	457.4
60°	353.4	436.6	519.8	589.1	672.2	630.6	582.1	512.8	443.5	443.5	436.6
62.5°	332.6	408.9	492.0	561.3	644.5	609.8	561.3	492.0	422.7	422.7	408.9
65°	277.2	353.4	408.9	471.2	561.3	526.7	478.2	429.7	374.2	360.4	367.3
67.5°	194.0	242.6	298.0	360.4	415.8	401.9	381.2	346.5	298.0	291.1	284.1
70°	97.0	131.7	180.2	242.6	291.1	277.2	263.3	235.6	207.9	201.0	201.0
72.5°	13.9	41.6	76.2	110.9	152.5	159.4	152.5	145.5	138.6	131.7	138.6
75°	0.0	0.0	0.0	27.7	62.4	76.2	90.1	104.0	104.0	90.1	110.9
77.5°	0.0	0.0	0.0	0.0	6.9	34.7	69.3	90.1	110.9	97.0	131.7
80°	0.0	0.0	0.0	0.0	6.9	41.6	69.3	97.0	110.9	97.0	138.6
82.5°	0.0	0.0	0.0	0.0	6.9	48.5	69.3	90.1	104.0	97.0	124.7
85°	0.0	0.0	0.0	0.0	20.8	41.6	27.7	13.9	6.9	6.9	20.8
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: P534085

CATALOG NUMBER: GALN-SA9C-740-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8	17865.8
2.5°	15474.9	15966.9	16493.6	16694.6	17318.3	17789.6	18108.3	18794.4	18898.4	18905.3
5°	12432.6	12682.1	13583.0	14005.7	14934.4	15655.1	16424.3	17533.1	18274.7	18330.1
7.5°	8835.9	9528.9	9910.0	11011.9	12155.4	13285.0	14428.5	15717.5	16576.8	16597.6
10°	7110.3	7560.7	8239.9	9064.6	10027.8	11178.2	12702.9	14199.8	15073.0	15287.8
12.5°	5724.3	6514.3	7290.5	8142.9	8877.5	9743.7	11386.1	13382.0	14102.7	14532.4
15°	4407.5	5128.3	6043.0	7041.0	7872.6	9029.9	10901.0	13181.0	14393.8	14539.3
17.5°	3250.2	3894.7	4740.2	5682.7	6930.1	8572.5	10984.2	14199.8	15343.2	15585.8
20°	2335.4	2709.7	3375.0	4469.9	6056.9	8038.9	11067.4	15232.3	16971.8	17387.6
22.5°	1850.3	2002.8	2439.4	3409.6	5079.8	7477.6	11656.4	17207.4	19210.2	19813.1
25°	1607.8	1690.9	1898.8	2688.9	4463.0	7422.1	12598.9	19577.5	22190.2	22626.8
27.5°	1552.3	1566.2	1746.4	2467.1	4130.3	7054.8	12959.3	21261.5	24047.4	24491.0
30°	1635.5	1857.3	1871.1	2086.0	3513.6	6327.2	13146.4	22890.1	25620.6	25946.3
32.5°	1413.7	1344.4	1392.9	1614.7	3090.8	5904.4	13499.8	24310.8	27415.5	27644.1
35°	984.1	1032.6	1143.5	1399.9	2702.7	5460.9	13589.9	25877.0	29120.3	29355.9
37.5°	907.8	935.6	1025.7	1192.0	2377.0	5211.4	13465.2	27020.4	30887.4	31213.1
40°	845.5	880.1	928.6	1081.1	2134.5	4934.2	13291.9	28053.0	31968.5	32772.4
42.5°	797.0	824.7	866.3	1032.6	1926.6	4657.0	13049.4	29508.3	32938.7	33638.7
45°	741.5	783.1	831.6	1004.9	1808.8	4469.9	12869.2	29418.2	33500.1	33874.3
47.5°	686.1	755.4	810.8	935.6	1774.1	4379.8	12945.4	29078.7	33042.7	32786.3
50°	630.6	720.7	817.8	776.2	1690.9	4199.6	13035.5	29543.0	31954.7	31906.2
52.5°	582.1	686.1	762.3	637.6	1503.8	4026.4	13908.7	30152.8	32723.9	32079.4
55°	512.8	616.8	609.8	512.8	1219.7	3894.7	14594.8	30166.7	32204.1	32446.7
57.5°	464.3	547.5	478.2	429.7	900.9	3257.1	13479.0	25294.8	27567.9	27997.6
60°	429.7	533.6	360.4	339.6	589.1	2349.3	11767.3	19591.4	21913.0	22723.8
62.5°	395.0	505.9	284.1	277.2	408.9	1670.2	9674.4	16396.6	18884.5	19986.4
65°	346.5	360.4	228.7	214.8	291.1	900.9	5890.6	11289.1	14116.6	14525.5
67.5°	284.1	277.2	187.1	173.3	194.0	436.6	2598.8	5655.0	8184.4	8870.5
70°	228.7	228.7	159.4	138.6	138.6	201.0	679.1	2252.3	3700.7	4095.7
72.5°	166.3	173.3	124.7	110.9	104.0	97.0	110.9	450.5	970.2	1240.5
75°	145.5	152.5	124.7	97.0	76.2	62.4	48.5	41.6	55.4	90.1
77.5°	159.4	159.4	131.7	90.1	69.3	48.5	27.7	13.9	13.9	6.9
80°	201.0	207.9	173.3	117.8	83.2	55.4	34.7	13.9	6.9	6.9
82.5°	214.8	235.6	194.0	145.5	104.0	62.4	34.7	6.9	0.0	0.0
85°	55.4	90.1	152.5	131.7	104.0	62.4	34.7	6.9	0.0	0.0
87.5°	0.0	6.9	20.8	20.8	27.7	27.7	20.8	6.9	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)