

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: P532681

Luminaire Tested: **GALN-SA8A-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532681  
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-SA8A-740-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA 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: 20415 lumens  
Efficiency: N/A  
Efficacy: 83.7 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

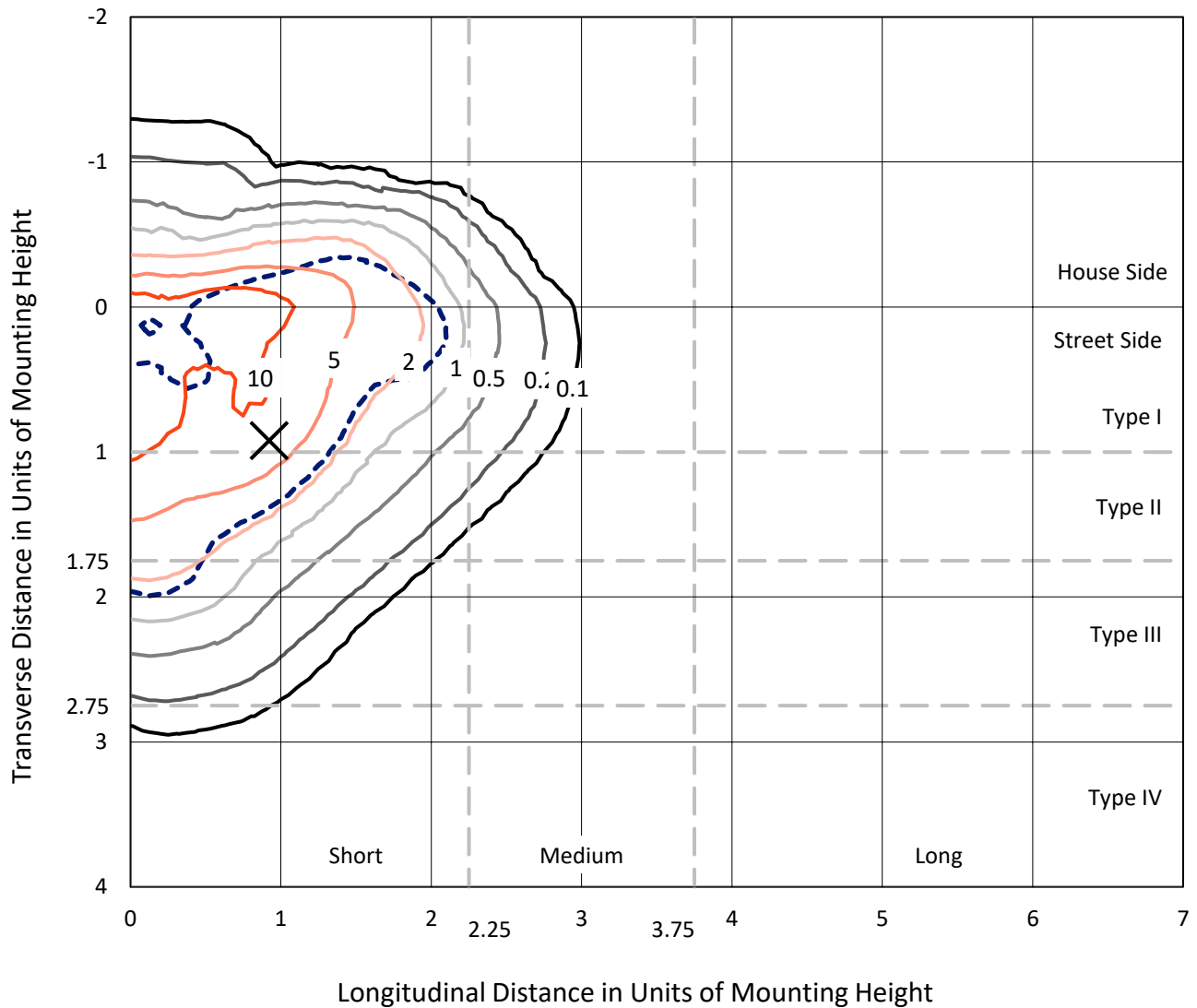
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

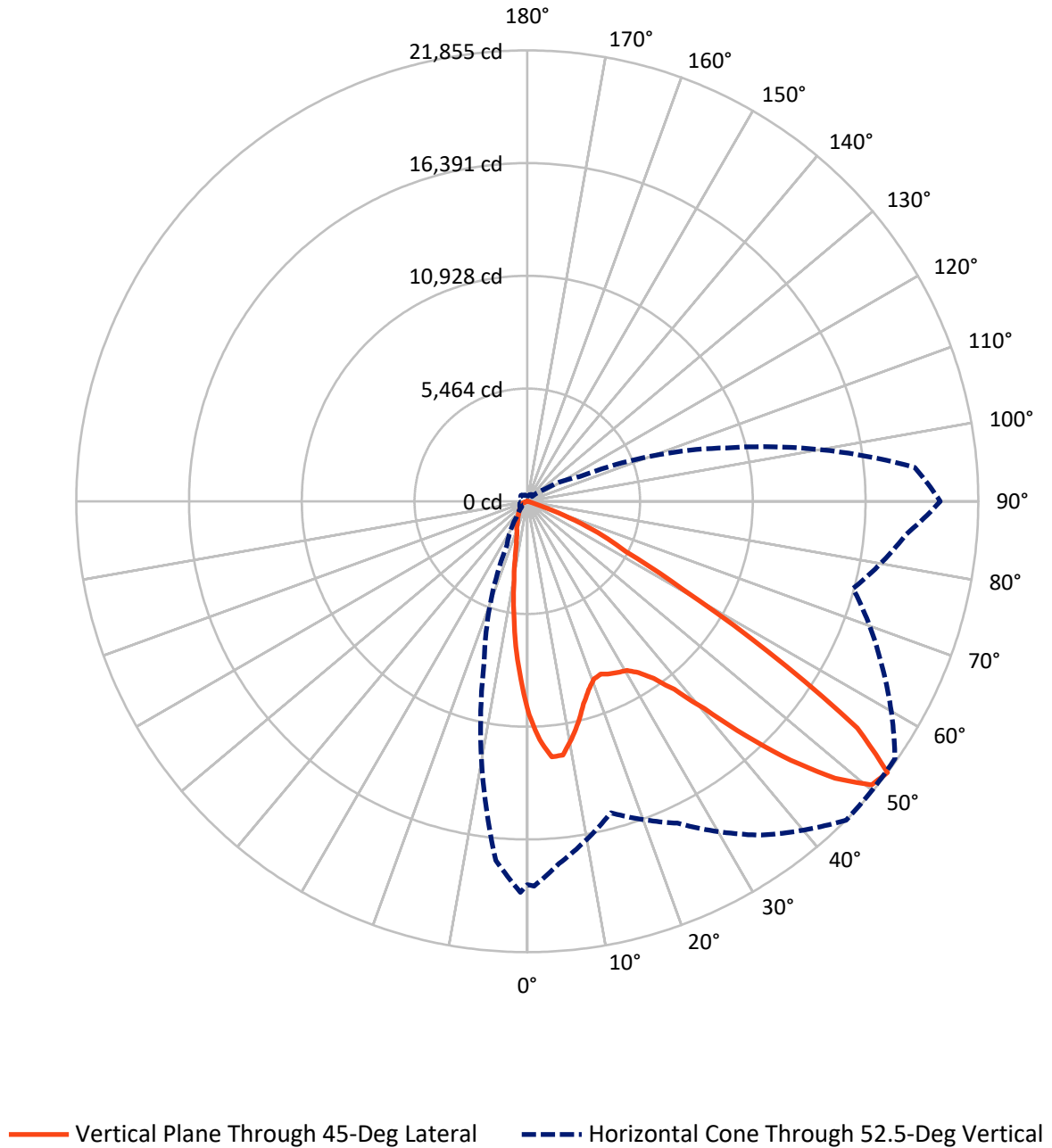
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 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	4143.2	0.0	4143.2
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	16271.8	0.0	16271.8
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	20415.0	0.0	20415.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	754.9	3.7
10°-20°	1489.4	7.3
20°-30°	2266.6	11.1
30°-40°	3387.7	16.6
40°-50°	4824.5	23.6
50°-60°	5186.1	25.4
60°-70°	2298.1	11.3
70°-80°	185.9	0.9
80°-90°	21.7	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°	20415.0	100.0
0°-180°	20415.0	100.0

**Coefficient of Utilization**



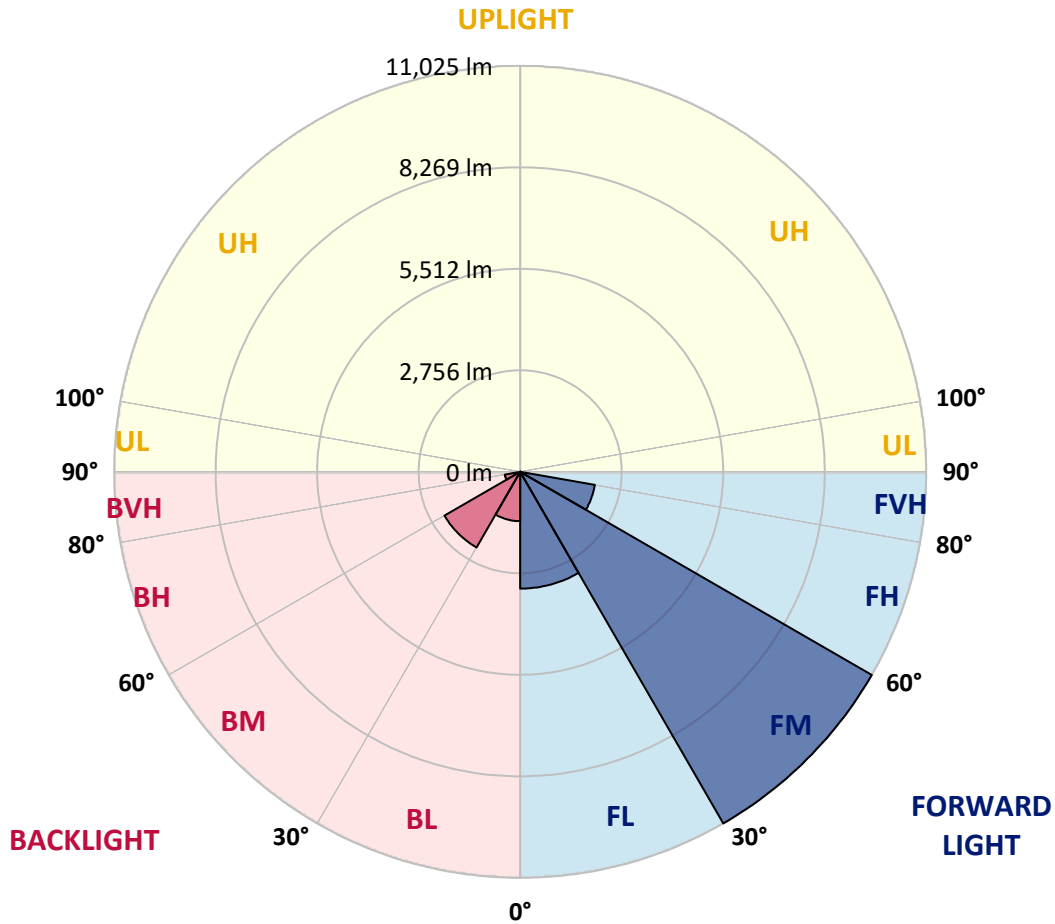
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3170.9	15.5			
FM (30°-60°)	11024.7	54.0			
FH (60°-80°)	2060.1	10.1			G2/5000
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	1340.1	6.6	B3/2500		
BM (30°-60°)	2373.6	11.6	B2/2500		
BH (60°-80°)	423.9	2.1	B1/500		G1/500
BVH (80°-90°)	5.6	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°	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4
2.5°	10953.6	10985.8	11162.4	11383.3	11499.7	11764.7	11580.0	11628.2	11527.8	11174.5	10897.4
5°	10620.4	10616.4	10841.2	11387.3	11905.3	12431.3	12447.3	12166.3	11672.4	11130.3	10355.4
7.5°	9616.6	9773.2	10006.0	10877.4	11837.0	12230.5	12419.2	12090.0	11331.1	10556.1	9716.9
10°	8857.7	8938.0	9331.5	10383.5	11086.1	11612.1	11728.6	11539.9	10957.7	9990.0	9050.4
12.5°	8420.0	8460.2	8921.9	9805.3	10548.1	10937.6	10993.8	11082.1	10664.5	9757.1	8628.8
15°	8424.0	8456.1	9078.5	9817.3	10110.4	10006.0	10190.7	10186.7	10367.4	9712.9	8982.1
17.5°	9030.3	9066.5	9628.6	9994.0	9865.5	9620.6	9608.5	9793.2	10174.7	10263.0	9516.2
20°	10074.3	10158.6	10572.2	10552.1	9829.4	9335.5	9199.0	9339.5	10226.9	10728.8	10592.3
22.5°	11479.6	11596.1	11885.2	11331.1	9994.0	9142.8	9098.6	9371.6	10572.2	11768.7	11812.9
25°	13109.8	13306.6	13447.1	12736.4	10580.2	9476.0	9267.2	9737.0	11038.0	12897.0	13366.8
27.5°	14189.9	14394.7	14362.6	13346.7	10973.7	9564.4	9387.7	9825.4	11443.5	13166.1	14177.9
30°	15033.2	15157.6	15382.5	13676.0	11367.2	9813.3	9512.2	10198.8	11576.0	13631.8	15157.6
32.5°	16016.9	16101.2	16117.3	14258.2	11973.5	10126.5	9897.6	10664.5	12162.2	14077.5	16024.9
35°	17008.7	17133.1	16872.1	14976.9	12346.9	10708.7	10540.1	11471.6	12632.0	14539.3	16980.6
37.5°	18084.8	18149.0	17546.7	15274.1	12881.0	11656.3	11564.0	12342.9	13447.1	15374.5	18040.6
40°	18988.2	19048.4	18265.4	15639.5	13443.1	12981.4	13218.3	14005.2	14555.3	15916.5	18570.6
42.5°	19490.1	19630.6	18506.4	15438.7	14571.4	14483.1	15535.1	15812.1	15840.2	16069.1	19044.4
45°	19626.6	19562.4	18108.8	15603.3	15559.2	16952.5	17908.1	18273.5	17117.1	16350.2	19164.9
47.5°	18996.2	19080.5	17522.6	15458.8	16856.1	18823.6	20060.3	20738.8	18068.7	16105.2	18867.7
50°	18486.3	18377.9	17333.9	15354.4	17205.4	19706.9	21614.2	21766.8	18944.0	16406.4	18542.5
52.5°	18586.7	18654.9	17635.0	15631.4	17213.4	19759.1	21855.1	21750.7	18972.1	16338.1	18426.1
55°	18799.5	18498.3	17506.6	15021.1	16061.1	18301.6	19397.7	19237.1	17510.6	15611.4	18141.0
57.5°	16221.7	16687.4	16097.2	13411.0	13182.1	13788.4	13768.3	14262.2	13061.7	13435.1	16514.8
60°	13166.1	13246.4	13467.2	11471.6	9122.7	8913.9	8624.8	8311.6	8789.4	11487.7	15021.1
62.5°	11580.0	11483.7	12270.7	10435.7	6440.5	5392.5	5344.3	5537.1	6781.8	10957.7	14089.6
65°	8416.0	8536.5	9106.6	8098.8	4834.4	4115.6	4043.4	4613.5	5488.9	8781.4	10752.9
67.5°	5139.5	5372.4	5424.6	4995.0	3280.5	2605.9	2501.5	3019.5	3963.1	5681.6	6304.0
70°	2373.0	2654.1	2919.1	2726.4	1899.2	1072.1	1011.8	1268.8	1999.6	3268.4	3344.7
72.5°	718.7	722.7	1011.8	1056.0	614.3	240.9	212.8	281.1	678.6	1080.1	1136.3
75°	52.2	56.2	136.5	156.6	116.4	60.2	64.2	76.3	144.5	240.9	180.7
77.5°	4.0	4.0	4.0	20.1	36.1	40.2	52.2	60.2	76.3	88.3	80.3
80°	4.0	0.0	4.0	16.1	28.1	40.2	48.2	56.2	60.2	68.3	60.2
82.5°	0.0	0.0	0.0	12.0	28.1	40.2	44.2	60.2	68.3	80.3	68.3
85°	0.0	0.0	0.0	12.0	28.1	44.2	40.2	20.1	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°	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4
2.5°	10945.6	10789.0	10431.7	10251.0	9825.4	9765.1	9347.5	9279.3	9138.7	9062.5	8877.8
5°	10014.1	9825.4	9243.1	8753.3	8183.1	7785.6	7480.4	7203.4	7042.8	6894.2	6962.5
7.5°	9255.2	8705.1	8058.6	7239.5	6581.0	6155.4	5689.6	5308.2	5083.3	4930.7	4966.9
10°	8460.2	8102.8	7203.4	6283.9	5488.9	5187.7	4822.3	4529.2	4212.0	3939.0	3810.5
12.5°	8211.2	7681.2	6552.9	5617.4	5015.1	4722.0	4304.4	3967.1	3561.5	3228.3	3111.8
15°	8255.4	7745.4	6376.2	5376.4	4665.7	4159.8	3661.9	3244.3	2798.6	2565.8	2445.3
17.5°	8974.1	8090.8	6492.7	5123.5	4179.9	3477.2	2862.9	2332.9	1999.6	1758.7	1706.5
20°	9857.5	8837.6	6741.6	4938.8	3782.4	2766.5	2092.0	1634.2	1357.2	1317.0	1305.0
22.5°	11150.4	10058.2	7275.7	4814.3	3296.5	2156.2	1433.4	1188.5	1112.2	1104.2	1108.2
25°	12957.3	11588.1	7857.9	4709.9	2931.1	1662.3	1172.5	1007.8	983.7	971.7	991.8
27.5°	13740.2	12511.6	8167.0	4485.1	2597.9	1497.7	1156.4	999.8	931.5	911.5	923.5
30°	14707.9	13125.9	8652.9	4099.6	2108.0	1232.7	1080.1	1088.1	1056.0	955.6	923.5
32.5°	15992.8	13892.8	8897.8	3826.5	1883.2	1019.9	791.0	726.8	811.1	827.1	855.3
35°	16815.9	14671.8	9022.3	3665.9	1766.7	871.3	670.5	610.3	590.2	594.3	610.3
37.5°	18345.7	15723.8	9178.9	3497.3	1678.4	758.9	606.3	550.1	522.0	522.0	538.0
40°	19261.2	16559.0	9391.7	3404.9	1590.0	690.6	550.1	501.9	477.8	477.8	485.8
42.5°	19490.1	16972.5	9319.4	3372.8	1489.7	674.6	501.9	465.8	437.7	433.6	429.6
45°	19899.7	17602.9	9331.5	3336.7	1385.3	614.3	473.8	433.6	393.5	389.5	385.5
47.5°	20349.4	18056.6	9355.6	3196.2	1284.9	514.0	493.9	401.5	353.3	345.3	345.3
50°	19963.9	18418.0	9564.4	3055.6	1156.4	417.6	485.8	377.4	313.2	301.1	305.2
52.5°	20012.1	18843.6	10006.0	2858.9	995.8	333.3	393.5	357.4	285.1	265.0	269.0
55°	19241.2	18393.9	10066.3	2650.1	779.0	257.0	301.1	313.2	240.9	232.9	232.9
57.5°	16563.0	15575.2	8881.8	2148.2	514.0	212.8	216.8	273.0	208.8	200.8	204.8
60°	14173.9	12503.5	7147.2	1417.4	321.2	168.6	156.6	277.1	184.7	180.7	192.7
62.5°	12921.1	10275.1	5420.6	879.3	220.8	128.5	108.4	224.9	160.6	160.6	176.7
65°	9335.5	6902.2	3152.0	461.8	156.6	100.4	80.3	128.5	132.5	136.5	144.5
67.5°	5782.0	3485.3	1329.1	224.9	104.4	68.3	52.2	80.3	88.3	88.3	96.4
70°	2854.9	1389.3	441.7	128.5	80.3	56.2	36.1	44.2	44.2	40.2	44.2
72.5°	883.4	417.6	112.4	80.3	56.2	36.1	20.1	16.1	8.0	0.0	4.0
75°	100.4	80.3	72.3	56.2	36.1	16.1	4.0	0.0	0.0	0.0	0.0
77.5°	60.2	68.3	68.3	56.2	36.1	12.0	0.0	0.0	0.0	0.0	0.0
80°	48.2	52.2	56.2	52.2	32.1	16.1	0.0	0.0	0.0	0.0	0.0
82.5°	60.2	68.3	76.3	68.3	44.2	20.1	8.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	12.0	4.0	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°	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4
2.5°	8801.5	8713.1	8837.6	8652.9	8648.9	8652.9	8600.7	8552.5	8628.8	8833.6	8853.7
5°	6717.5	6906.3	6966.5	7163.2	7054.8	6894.2	6926.3	6817.9	7082.9	7199.4	7107.0
7.5°	4890.6	4878.5	5284.1	5308.2	5360.4	5364.4	5356.4	5143.6	4926.7	4974.9	5119.5
10°	3794.4	3589.6	3786.4	3766.3	3894.8	3858.7	3910.9	3682.0	3758.3	3758.3	3850.6
12.5°	3091.8	2874.9	2838.8	2786.6	2838.8	2858.9	2878.9	2834.8	2963.3	3023.5	3087.7
15°	2361.0	2240.5	2208.4	2108.0	2124.1	2180.3	2228.5	2248.5	2208.4	2300.7	2308.8
17.5°	1714.5	1710.5	1730.6	1726.6	1710.5	1698.5	1694.4	1642.2	1626.2	1634.2	1666.3
20°	1300.9	1333.1	1401.3	1469.6	1505.7	1461.6	1401.3	1313.0	1276.9	1284.9	1288.9
22.5°	1112.2	1160.4	1252.8	1329.1	1365.2	1284.9	1176.5	1100.2	1084.1	1080.1	1076.1
25°	1007.8	1064.0	1132.3	1156.4	1152.4	1104.2	1023.9	991.8	983.7	975.7	939.6
27.5°	951.6	971.7	983.7	1011.8	1023.9	991.8	971.7	923.5	915.5	915.5	891.4
30°	919.5	907.4	923.5	903.4	919.5	895.4	899.4	899.4	879.3	887.4	887.4
32.5°	855.3	859.3	859.3	819.1	831.2	803.1	831.2	855.3	859.3	863.3	895.4
35°	626.4	698.7	734.8	734.8	746.8	726.8	722.7	694.6	658.5	622.4	606.3
37.5°	550.1	578.2	626.4	654.5	674.6	658.5	622.4	578.2	558.1	542.1	526.0
40°	489.9	514.0	546.1	578.2	618.4	598.3	542.1	522.0	497.9	497.9	481.8
42.5°	441.7	453.7	473.8	522.0	566.2	526.0	485.8	469.8	457.7	453.7	449.7
45°	397.5	401.5	421.6	461.8	514.0	473.8	433.6	413.6	417.6	421.6	417.6
47.5°	357.4	365.4	377.4	425.6	457.7	437.7	393.5	381.5	381.5	381.5	385.5
50°	309.2	329.3	353.3	393.5	417.6	405.5	369.4	353.3	345.3	345.3	349.3
52.5°	277.1	293.1	325.2	373.4	405.5	385.5	349.3	325.2	309.2	305.2	313.2
55°	240.9	269.0	321.2	357.4	401.5	381.5	341.3	313.2	285.1	281.1	281.1
57.5°	216.8	261.0	309.2	353.3	389.5	373.4	341.3	305.2	269.0	265.0	265.0
60°	204.8	253.0	301.1	341.3	389.5	365.4	337.3	297.1	257.0	257.0	253.0
62.5°	192.7	236.9	285.1	325.2	373.4	353.3	325.2	285.1	244.9	244.9	236.9
65°	160.6	204.8	236.9	273.0	325.2	305.2	277.1	248.9	216.8	208.8	212.8
67.5°	112.4	140.5	172.7	208.8	240.9	232.9	220.8	200.8	172.7	168.6	164.6
70°	56.2	76.3	104.4	140.5	168.6	160.6	152.6	136.5	120.5	116.4	116.4
72.5°	8.0	24.1	44.2	64.2	88.3	92.4	88.3	84.3	80.3	76.3	80.3
75°	0.0	0.0	0.0	16.1	36.1	44.2	52.2	60.2	60.2	52.2	64.2
77.5°	0.0	0.0	0.0	0.0	4.0	20.1	40.2	52.2	64.2	56.2	76.3
80°	0.0	0.0	0.0	0.0	4.0	24.1	40.2	56.2	64.2	56.2	80.3
82.5°	0.0	0.0	0.0	0.0	4.0	28.1	40.2	52.2	60.2	56.2	72.3
85°	0.0	0.0	0.0	0.0	12.0	24.1	16.1	8.0	4.0	4.0	12.0
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



REPORT NUMBER: P532681

CATALOG NUMBER: GALN-SA8A-740-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4	10351.4
2.5°	8966.1	9251.2	9556.3	9672.8	10034.1	10307.2	10491.9	10889.4	10949.6	10953.6
5°	7203.4	7347.9	7869.9	8114.9	8652.9	9070.5	9516.2	10158.6	10588.3	10620.4
7.5°	5119.5	5521.0	5741.8	6380.3	7042.8	7697.3	8359.8	9106.6	9604.5	9616.6
10°	4119.7	4380.7	4774.2	5252.0	5810.1	6476.6	7360.0	8227.3	8733.2	8857.7
12.5°	3316.6	3774.3	4224.1	4717.9	5143.6	5645.5	6597.1	7753.5	8171.1	8420.0
15°	2553.7	2971.3	3501.3	4079.5	4561.3	5231.9	6316.0	7637.0	8339.7	8424.0
17.5°	1883.2	2256.6	2746.4	3292.5	4015.3	4966.9	6364.2	8227.3	8889.8	9030.3
20°	1353.1	1570.0	1955.4	2589.8	3509.3	4657.7	6412.4	8825.6	9833.4	10074.3
22.5°	1072.1	1160.4	1413.4	1975.5	2943.2	4332.5	6753.7	9969.9	11130.3	11479.6
25°	931.5	979.7	1100.2	1557.9	2585.8	4300.3	7299.8	11343.1	12856.9	13109.8
27.5°	899.4	907.4	1011.8	1429.4	2393.1	4087.5	7508.5	12318.8	13933.0	14189.9
30°	947.6	1076.1	1084.1	1208.6	2035.7	3665.9	7617.0	13262.4	14844.4	15033.2
32.5°	819.1	779.0	807.1	935.6	1790.8	3421.0	7821.7	14085.6	15884.4	16016.9
35°	570.2	598.3	662.5	811.1	1566.0	3164.0	7873.9	14993.0	16872.1	17008.7
37.5°	526.0	542.1	594.3	690.6	1377.2	3019.5	7801.7	15655.5	17896.0	18084.8
40°	489.9	509.9	538.0	626.4	1236.7	2858.9	7701.3	16253.8	18522.4	18988.2
42.5°	461.8	477.8	501.9	598.3	1116.2	2698.3	7560.7	17097.0	19084.6	19490.1
45°	429.6	453.7	481.8	582.2	1048.0	2589.8	7456.3	17044.8	19409.8	19626.6
47.5°	397.5	437.7	469.8	542.1	1027.9	2537.6	7500.5	16848.1	19144.8	18996.2
50°	365.4	417.6	473.8	449.7	979.7	2433.3	7552.7	17117.1	18514.4	18486.3
52.5°	337.3	397.5	441.7	369.4	871.3	2332.9	8058.6	17470.4	18960.1	18586.7
55°	297.1	357.4	353.3	297.1	706.7	2256.6	8456.1	17478.4	18658.9	18799.5
57.5°	269.0	317.2	277.1	248.9	522.0	1887.2	7809.7	14655.7	15972.7	16221.7
60°	248.9	309.2	208.8	196.7	341.3	1361.2	6817.9	11351.2	12696.3	13166.1
62.5°	228.9	293.1	164.6	160.6	236.9	967.7	5605.3	9500.1	10941.6	11580.0
65°	200.8	208.8	132.5	124.5	168.6	522.0	3413.0	6540.9	8179.1	8416.0
67.5°	164.6	160.6	108.4	100.4	112.4	253.0	1505.7	3276.5	4742.0	5139.5
70°	132.5	132.5	92.4	80.3	80.3	116.4	393.5	1305.0	2144.2	2373.0
72.5°	96.4	100.4	72.3	64.2	60.2	56.2	64.2	261.0	562.1	718.7
75°	84.3	88.3	72.3	56.2	44.2	36.1	28.1	24.1	32.1	52.2
77.5°	92.4	92.4	76.3	52.2	40.2	28.1	16.1	8.0	8.0	4.0
80°	116.4	120.5	100.4	68.3	48.2	32.1	20.1	8.0	4.0	4.0
82.5°	124.5	136.5	112.4	84.3	60.2	36.1	20.1	4.0	0.0	0.0
85°	32.1	52.2	88.3	76.3	60.2	36.1	20.1	4.0	0.0	0.0
87.5°	0.0	4.0	12.0	12.0	16.1	16.1	12.0	4.0	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)