

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: P533331

Luminaire Tested: **GALN-SA8D-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533331  
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-SA8D-730-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA 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: 31451 lumens  
Efficiency: N/A  
Efficacy: 63.8 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

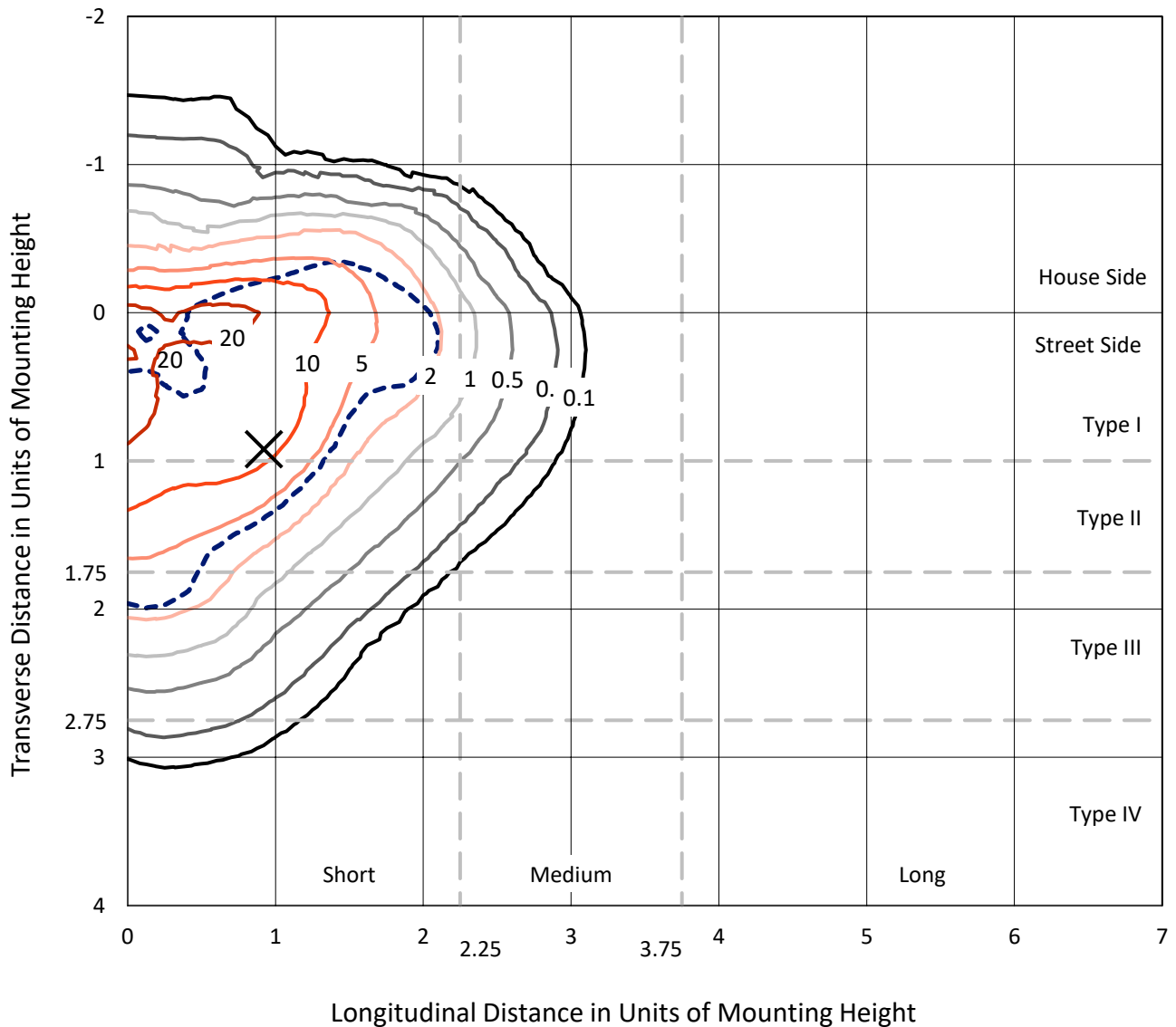
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

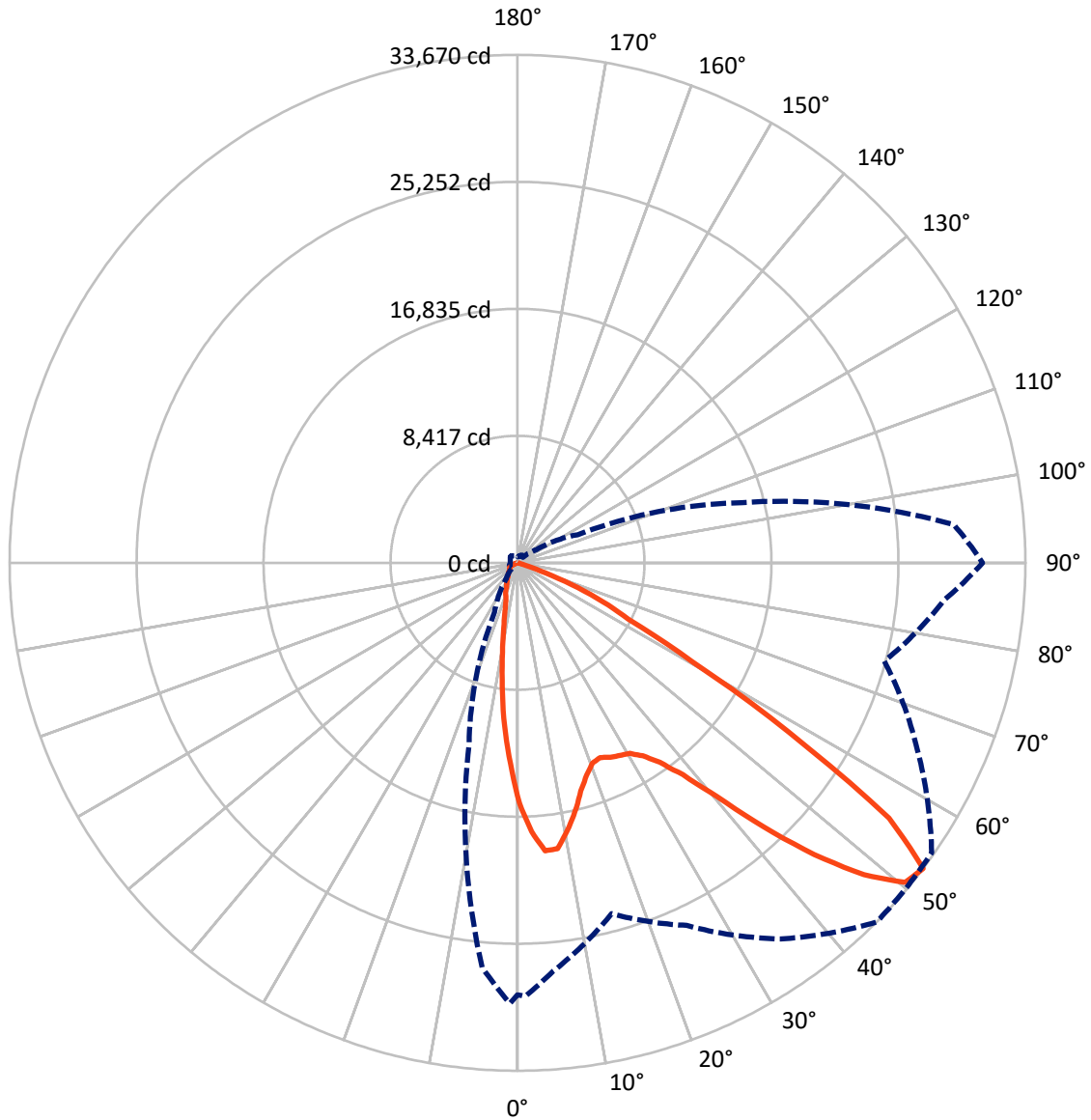
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.6 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
<b>House Side</b>	Lumens	6383.0	0.0	6383.0
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	25068.0	0.0	25068.0
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	31451.0	0.0	31451.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1163.0	3.7
10°-20°	2294.6	7.3
20°-30°	3491.9	11.1
30°-40°	5219.1	16.6
40°-50°	7432.5	23.6
50°-60°	7989.7	25.4
60°-70°	3540.4	11.3
70°-80°	286.4	0.9
80°-90°	33.4	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°	31451.0	100.0
0°-180°	31451.0	100.0

**Coefficient of Utilization**



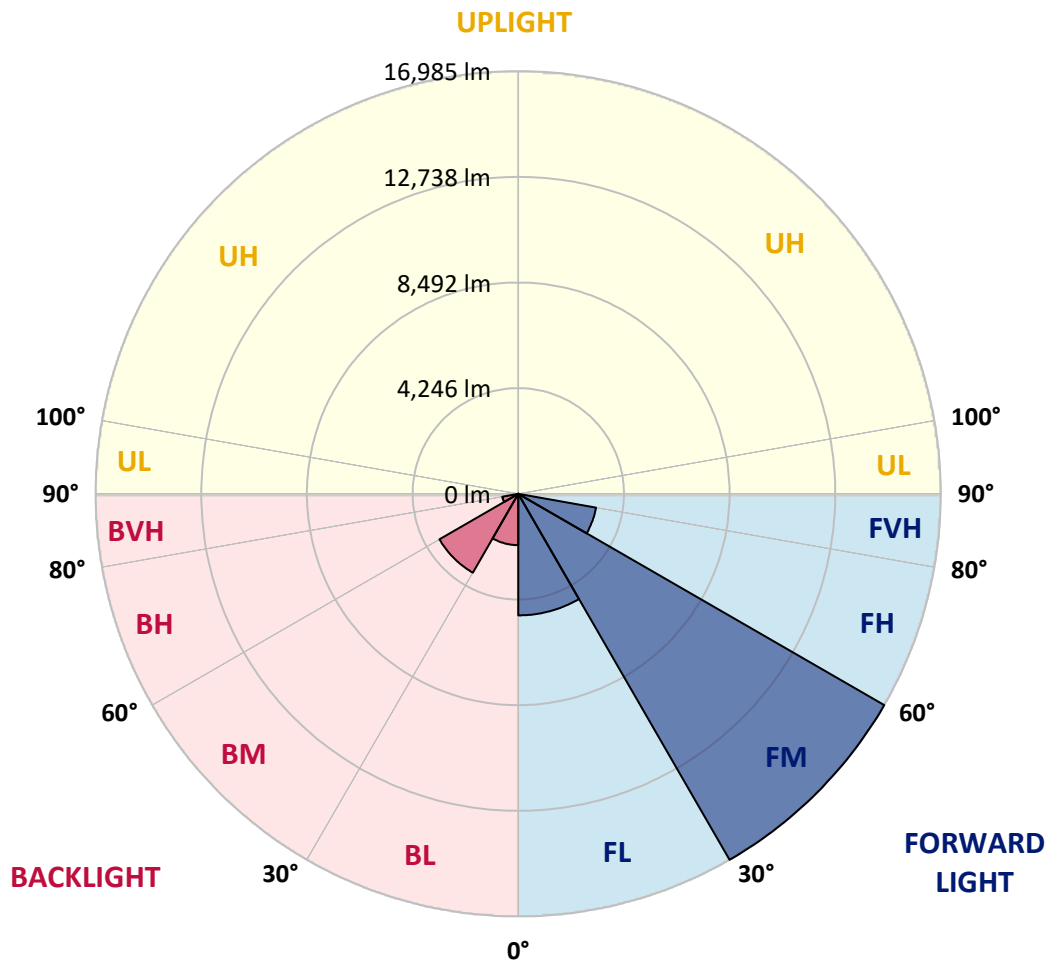
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4885.0	15.5			
FM	(30°-60°)	16984.5	54.0			
FH	(60°-80°)	3173.8	10.1			G2/5000
FVH	(80°-90°)	24.7	0.1			G1/100
BL	(0°-30°)	2064.5	6.6	B3/2500		
BM	(30°-60°)	3656.8	11.6	B3/5000		
BH	(60°-80°)	653.1	2.1	B2/1000		G2/1000
BVH	(80°-90°)	8.7	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°	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1
2.5°	16875.0	16924.5	17196.7	17536.9	17716.3	18124.5	17840.0	17914.2	17759.6	17215.2	16788.4
5°	16361.6	16355.4	16701.8	17543.1	18341.0	19151.4	19176.1	18743.1	17982.3	17147.2	15953.3
7.5°	14815.1	15056.4	15415.1	16757.5	18235.9	18842.1	19132.8	18625.6	17456.5	16262.6	14969.8
10°	13646.0	13769.7	14375.9	15996.6	17079.1	17889.5	18068.9	17778.1	16881.2	15390.4	13942.9
12.5°	12971.7	13033.6	13745.0	15105.8	16250.2	16850.3	16936.9	17072.9	16429.6	15031.6	13293.4
15°	12977.9	13027.4	13986.2	15124.4	15576.0	15415.1	15699.7	15693.5	15971.9	14963.6	13837.7
17.5°	13912.0	13967.6	14833.7	15396.6	15198.6	14821.3	14802.7	15087.3	15674.9	15811.0	14660.5
20°	15520.3	15650.2	16287.3	16256.4	15143.0	14382.1	14171.8	14388.3	15755.4	16528.6	16318.3
22.5°	17685.3	17864.7	18310.1	17456.5	15396.6	14085.2	14017.1	14437.8	16287.3	18130.7	18198.8
25°	20196.8	20499.9	20716.4	19621.5	16299.7	14598.6	14276.9	15000.7	17004.9	19868.9	20592.7
27.5°	21860.8	22176.3	22126.8	20561.8	16905.9	14734.7	14462.5	15136.8	17629.7	20283.4	21842.2
30°	23159.8	23351.6	23698.0	21069.0	17512.1	15118.2	14654.3	15712.1	17833.8	21001.0	23351.6
32.5°	24675.4	24805.3	24830.0	21966.0	18446.2	15600.7	15248.1	16429.6	18736.9	21687.6	24687.7
35°	26203.3	26395.0	25992.9	23073.2	19021.5	16497.7	16237.9	17673.0	19460.7	22399.0	26160.0
37.5°	27861.1	27960.0	27032.2	23531.0	19844.2	17957.5	17815.2	19015.3	20716.4	23685.6	27793.0
40°	29252.9	29345.7	28139.4	24093.9	20710.2	19998.9	20363.8	21576.2	22423.7	24520.7	28609.6
42.5°	30026.1	30242.6	28510.6	23784.6	22448.4	22312.4	23933.1	24359.9	24403.2	24755.8	29339.5
45°	30236.4	30137.5	27898.2	24038.2	23970.2	26116.7	27588.9	28151.8	26370.3	25188.8	29525.1
47.5°	29265.3	29395.2	26995.0	23815.5	25968.2	28999.3	30904.5	31949.9	27836.3	24811.4	29067.3
50°	28479.6	28312.6	26704.3	23654.7	26506.4	30360.1	33298.4	33533.5	29184.8	25275.4	28566.3
52.5°	28634.3	28739.5	27168.2	24081.5	26518.7	30440.6	33669.6	33508.7	29228.1	25170.2	28386.9
55°	28962.1	28498.2	26970.3	23141.3	24743.4	28195.1	29883.8	29636.4	26976.5	24050.6	27947.7
57.5°	24990.8	25708.4	24799.1	20660.7	20308.1	21242.2	21211.3	21972.1	20122.6	20697.9	25442.4
60°	20283.4	20407.1	20747.3	17673.0	14054.2	13732.6	13287.2	12804.7	13540.8	17697.7	23141.3
62.5°	17840.0	17691.5	18904.0	16077.0	9922.1	8307.6	8233.4	8530.3	10447.9	16881.2	21706.1
65°	12965.5	13151.1	14029.5	12476.9	7447.8	6340.5	6229.2	7107.5	8456.1	13528.5	16565.7
67.5°	7917.9	8276.7	8357.1	7695.2	5053.8	4014.6	3853.8	4651.8	6105.4	8753.0	9711.8
70°	3655.8	4088.8	4497.1	4200.2	2925.9	1651.6	1558.8	1954.7	3080.6	5035.3	5152.8
72.5°	1107.3	1113.5	1558.8	1626.9	946.4	371.2	327.9	433.0	1045.4	1664.0	1750.6
75°	80.4	86.6	210.3	241.2	179.4	92.8	99.0	117.5	222.7	371.2	278.4
77.5°	6.2	6.2	6.2	30.9	55.7	61.9	80.4	92.8	117.5	136.1	123.7
80°	6.2	0.0	6.2	24.7	43.3	61.9	74.2	86.6	92.8	105.2	92.8
82.5°	0.0	0.0	0.0	18.6	43.3	61.9	68.0	92.8	105.2	123.7	105.2
85°	0.0	0.0	0.0	18.6	43.3	68.0	61.9	30.9	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°	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1
2.5°	16862.6	16621.4	16070.8	15792.5	15136.8	15044.0	14400.7	14295.5	14079.0	13961.5	13676.9
5°	15427.5	15136.8	14239.8	13485.2	12606.8	11994.4	11524.2	11097.4	10850.0	10621.1	10726.3
7.5°	14258.4	13410.9	12415.0	11153.1	10138.6	9482.9	8765.3	8177.7	7831.3	7596.2	7651.9
10°	13033.6	12483.0	11097.4	9680.9	8456.1	7992.1	7429.2	6977.6	6489.0	6068.3	5870.4
12.5°	12650.1	11833.5	10095.3	8654.0	7726.1	7274.6	6631.2	6111.6	5486.8	4973.4	4794.0
15°	12718.1	11932.5	9823.1	8282.9	7188.0	6408.5	5641.5	4998.2	4311.5	3952.8	3767.2
17.5°	13825.4	12464.5	10002.5	7893.1	6439.5	5356.9	4410.5	3594.0	3080.6	2709.4	2629.0
20°	15186.3	13615.1	10386.0	7608.6	5827.1	4262.1	3222.8	2517.6	2090.8	2029.0	2010.4
22.5°	17178.1	15495.6	11208.8	7416.8	5078.6	3321.8	2208.3	1831.0	1713.5	1701.1	1707.3
25°	19961.7	17852.4	12105.7	7256.0	4515.7	2560.9	1806.3	1552.6	1515.5	1497.0	1527.9
27.5°	21168.0	19275.1	12582.0	6909.6	4002.2	2307.3	1781.5	1540.3	1435.1	1404.2	1422.7
30°	22658.8	20221.5	13330.5	6315.8	3247.6	1899.1	1664.0	1676.4	1626.9	1472.2	1422.7
32.5°	24638.2	21403.0	13707.8	5895.1	2901.2	1571.2	1218.6	1119.6	1249.5	1274.3	1317.6
35°	25906.3	22603.1	13899.6	5647.7	2721.8	1342.3	1033.0	940.2	909.3	915.5	940.2
37.5°	28263.1	24223.8	14140.9	5387.9	2585.7	1169.1	934.1	847.5	804.2	804.2	828.9
40°	29673.5	25510.4	14468.7	5245.6	2449.6	1064.0	847.5	773.2	736.1	736.1	748.5
42.5°	30026.1	26147.6	14357.4	5196.1	2295.0	1039.2	773.2	717.6	674.3	668.1	661.9
45°	30657.1	27118.8	14375.9	5140.4	2134.1	946.4	729.9	668.1	606.2	600.0	593.8
47.5°	31349.9	27817.8	14413.0	4923.9	1979.5	791.8	760.9	618.6	544.4	532.0	532.0
50°	30756.0	28374.5	14734.7	4707.4	1781.5	643.3	748.5	581.5	482.5	463.9	470.1
52.5°	30830.3	29030.2	15415.1	4404.3	1534.1	513.4	606.2	550.5	439.2	408.3	414.5
55°	29642.6	28337.4	15507.9	4082.7	1200.1	395.9	463.9	482.5	371.2	358.8	358.8
57.5°	25516.6	23994.9	13683.1	3309.4	791.8	327.9	334.0	420.6	321.7	309.3	315.5
60°	21836.0	19262.7	11010.8	2183.6	494.9	259.8	241.2	426.8	284.5	278.4	296.9
62.5°	19906.1	15829.6	8350.9	1354.7	340.2	197.9	167.0	346.4	247.4	247.4	272.2
65°	14382.1	10633.5	4855.9	711.4	241.2	154.6	123.7	197.9	204.1	210.3	222.7
67.5°	8907.6	5369.3	2047.5	346.4	160.8	105.2	80.4	123.7	136.1	136.1	148.5
70°	4398.1	2140.3	680.4	197.9	123.7	86.6	55.7	68.0	68.0	61.9	68.0
72.5°	1360.9	643.3	173.2	123.7	86.6	55.7	30.9	24.7	12.4	0.0	6.2
75°	154.6	123.7	111.3	86.6	55.7	24.7	6.2	0.0	0.0	0.0	0.0
77.5°	92.8	105.2	105.2	86.6	55.7	18.6	0.0	0.0	0.0	0.0	0.0
80°	74.2	80.4	86.6	80.4	49.5	24.7	0.0	0.0	0.0	0.0	0.0
82.5°	92.8	105.2	117.5	105.2	68.0	30.9	12.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	18.6	6.2	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°	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1
2.5°	13559.4	13423.3	13615.1	13330.5	13324.3	13330.5	13250.1	13175.9	13293.4	13608.9	13639.8
5°	10348.9	10639.7	10732.4	11035.6	10868.5	10621.1	10670.6	10503.6	10911.8	11091.2	10949.0
7.5°	7534.4	7515.8	8140.6	8177.7	8258.1	8264.3	8251.9	7924.1	7590.0	7664.3	7887.0
10°	5845.6	5530.1	5833.3	5802.3	6000.3	5944.6	6025.0	5672.4	5790.0	5790.0	5932.2
12.5°	4763.1	4429.1	4373.4	4293.0	4373.4	4404.3	4435.3	4367.2	4565.2	4657.9	4756.9
15°	3637.3	3451.7	3402.2	3247.6	3272.3	3358.9	3433.1	3464.1	3402.2	3544.5	3556.9
17.5°	2641.4	2635.2	2666.1	2659.9	2635.2	2616.6	2610.4	2530.0	2505.3	2517.6	2567.1
20°	2004.2	2053.7	2158.9	2264.0	2319.7	2251.6	2158.9	2022.8	1967.1	1979.5	1985.7
22.5°	1713.5	1787.7	1930.0	2047.5	2103.2	1979.5	1812.5	1694.9	1670.2	1664.0	1657.8
25°	1552.6	1639.3	1744.4	1781.5	1775.3	1701.1	1577.4	1527.9	1515.5	1503.2	1447.5
27.5°	1466.0	1497.0	1515.5	1558.8	1577.4	1527.9	1497.0	1422.7	1410.4	1410.4	1373.3
30°	1416.6	1398.0	1422.7	1391.8	1416.6	1379.4	1385.6	1385.6	1354.7	1367.1	1367.1
32.5°	1317.6	1323.8	1323.8	1261.9	1280.5	1237.2	1280.5	1317.6	1323.8	1330.0	1379.4
35°	965.0	1076.3	1132.0	1132.0	1150.6	1119.6	1113.5	1070.2	1014.5	958.8	934.1
37.5°	847.5	890.8	965.0	1008.3	1039.2	1014.5	958.8	890.8	859.8	835.1	810.3
40°	754.7	791.8	841.3	890.8	952.6	921.7	835.1	804.2	767.0	767.0	742.3
42.5°	680.4	699.0	729.9	804.2	872.2	810.3	748.5	723.7	705.2	699.0	692.8
45°	612.4	618.6	649.5	711.4	791.8	729.9	668.1	637.1	643.3	649.5	643.3
47.5°	550.5	562.9	581.5	655.7	705.2	674.3	606.2	587.7	587.7	587.7	593.8
50°	476.3	507.2	544.4	606.2	643.3	624.8	569.1	544.4	532.0	532.0	538.2
52.5°	426.8	451.6	501.1	575.3	624.8	593.8	538.2	501.1	476.3	470.1	482.5
55°	371.2	414.5	494.9	550.5	618.6	587.7	525.8	482.5	439.2	433.0	433.0
57.5°	334.0	402.1	476.3	544.4	600.0	575.3	525.8	470.1	414.5	408.3	408.3
60°	315.5	389.7	463.9	525.8	600.0	562.9	519.6	457.8	395.9	395.9	389.7
62.5°	296.9	365.0	439.2	501.1	575.3	544.4	501.1	439.2	377.3	377.3	365.0
65°	247.4	315.5	365.0	420.6	501.1	470.1	426.8	383.5	334.0	321.7	327.9
67.5°	173.2	216.5	266.0	321.7	371.2	358.8	340.2	309.3	266.0	259.8	253.6
70°	86.6	117.5	160.8	216.5	259.8	247.4	235.1	210.3	185.6	179.4	179.4
72.5°	12.4	37.1	68.0	99.0	136.1	142.3	136.1	129.9	123.7	117.5	123.7
75°	0.0	0.0	0.0	24.7	55.7	68.0	80.4	92.8	92.8	80.4	99.0
77.5°	0.0	0.0	0.0	0.0	6.2	30.9	61.9	80.4	99.0	86.6	117.5
80°	0.0	0.0	0.0	0.0	6.2	37.1	61.9	86.6	99.0	86.6	123.7
82.5°	0.0	0.0	0.0	0.0	6.2	43.3	61.9	80.4	92.8	86.6	111.3
85°	0.0	0.0	0.0	0.0	18.6	37.1	24.7	12.4	6.2	6.2	18.6
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: P533331

CATALOG NUMBER: GALN-SA8D-730-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1	15947.1
2.5°	13813.0	14252.2	14722.3	14901.7	15458.4	15879.1	16163.6	16776.0	16868.8	16875.0
5°	11097.4	11320.1	12124.3	12501.6	13330.5	13973.8	14660.5	15650.2	16312.1	16361.6
7.5°	7887.0	8505.5	8845.8	9829.3	10850.0	11858.3	12878.9	14029.5	14796.6	14815.1
10°	6346.7	6748.8	7355.0	8091.1	8950.9	9977.8	11338.7	12674.8	13454.2	13646.0
12.5°	5109.5	5814.7	6507.5	7268.4	7924.1	8697.3	10163.4	11944.9	12588.2	12971.7
15°	3934.2	4577.5	5394.1	6284.8	7027.1	8060.2	9730.3	11765.5	12848.0	12977.9
17.5°	2901.2	3476.4	4231.1	5072.4	6185.8	7651.9	9804.6	12674.8	13695.5	13912.0
20°	2084.6	2418.7	3012.5	3989.9	5406.4	7175.6	9878.8	13596.5	15149.1	15520.3
22.5°	1651.6	1787.7	2177.4	3043.4	4534.2	6674.5	10404.6	15359.5	17147.2	17685.3
25°	1435.1	1509.3	1694.9	2400.1	3983.7	6625.0	11245.9	17475.0	19807.1	20196.8
27.5°	1385.6	1398.0	1558.8	2202.2	3686.8	6297.2	11567.5	18978.2	21464.9	21860.8
30°	1459.9	1657.8	1670.2	1861.9	3136.2	5647.7	11734.6	20431.9	22869.1	23159.8
32.5°	1261.9	1200.1	1243.4	1441.3	2758.9	5270.3	12050.0	21700.0	24471.2	24675.4
35°	878.4	921.7	1020.7	1249.5	2412.5	4874.4	12130.5	23098.0	25992.9	26203.3
37.5°	810.3	835.1	915.5	1064.0	2121.7	4651.8	12019.1	24118.6	27570.3	27861.1
40°	754.7	785.6	828.9	965.0	1905.2	4404.3	11864.5	25040.3	28535.3	29252.9
42.5°	711.4	736.1	773.2	921.7	1719.7	4156.9	11648.0	26339.3	29401.3	30026.1
45°	661.9	699.0	742.3	896.9	1614.5	3989.9	11487.1	26258.9	29902.4	30236.4
47.5°	612.4	674.3	723.7	835.1	1583.6	3909.5	11555.2	25955.8	29494.1	29265.3
50°	562.9	643.3	729.9	692.8	1509.3	3748.6	11635.6	26370.3	28523.0	28479.6
52.5°	519.6	612.4	680.4	569.1	1342.3	3594.0	12415.0	26914.6	29209.6	28634.3
55°	457.8	550.5	544.4	457.8	1088.7	3476.4	13027.4	26927.0	28745.6	28962.1
57.5°	414.5	488.7	426.8	383.5	804.2	2907.3	12031.5	22578.3	24607.3	24990.8
60°	383.5	476.3	321.7	303.1	525.8	2097.0	10503.6	17487.4	19559.7	20283.4
62.5°	352.6	451.6	253.6	247.4	365.0	1490.8	8635.4	14635.7	16856.4	17840.0
65°	309.3	321.7	204.1	191.8	259.8	804.2	5258.0	10076.7	12600.6	12965.5
67.5°	253.6	247.4	167.0	154.6	173.2	389.7	2319.7	5047.7	7305.5	7917.9
70°	204.1	204.1	142.3	123.7	123.7	179.4	606.2	2010.4	3303.2	3655.8
72.5°	148.5	154.6	111.3	99.0	92.8	86.6	99.0	402.1	866.0	1107.3
75°	129.9	136.1	111.3	86.6	68.0	55.7	43.3	37.1	49.5	80.4
77.5°	142.3	142.3	117.5	80.4	61.9	43.3	24.7	12.4	12.4	6.2
80°	179.4	185.6	154.6	105.2	74.2	49.5	30.9	12.4	6.2	6.2
82.5°	191.8	210.3	173.2	129.9	92.8	55.7	30.9	6.2	0.0	0.0
85°	49.5	80.4	136.1	117.5	92.8	55.7	30.9	6.2	0.0	0.0
87.5°	0.0	6.2	18.6	18.6	24.7	24.7	18.6	6.2	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)