

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: P456497

Luminaire Tested: **GALN-SA7D-730-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7D-730-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35241 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

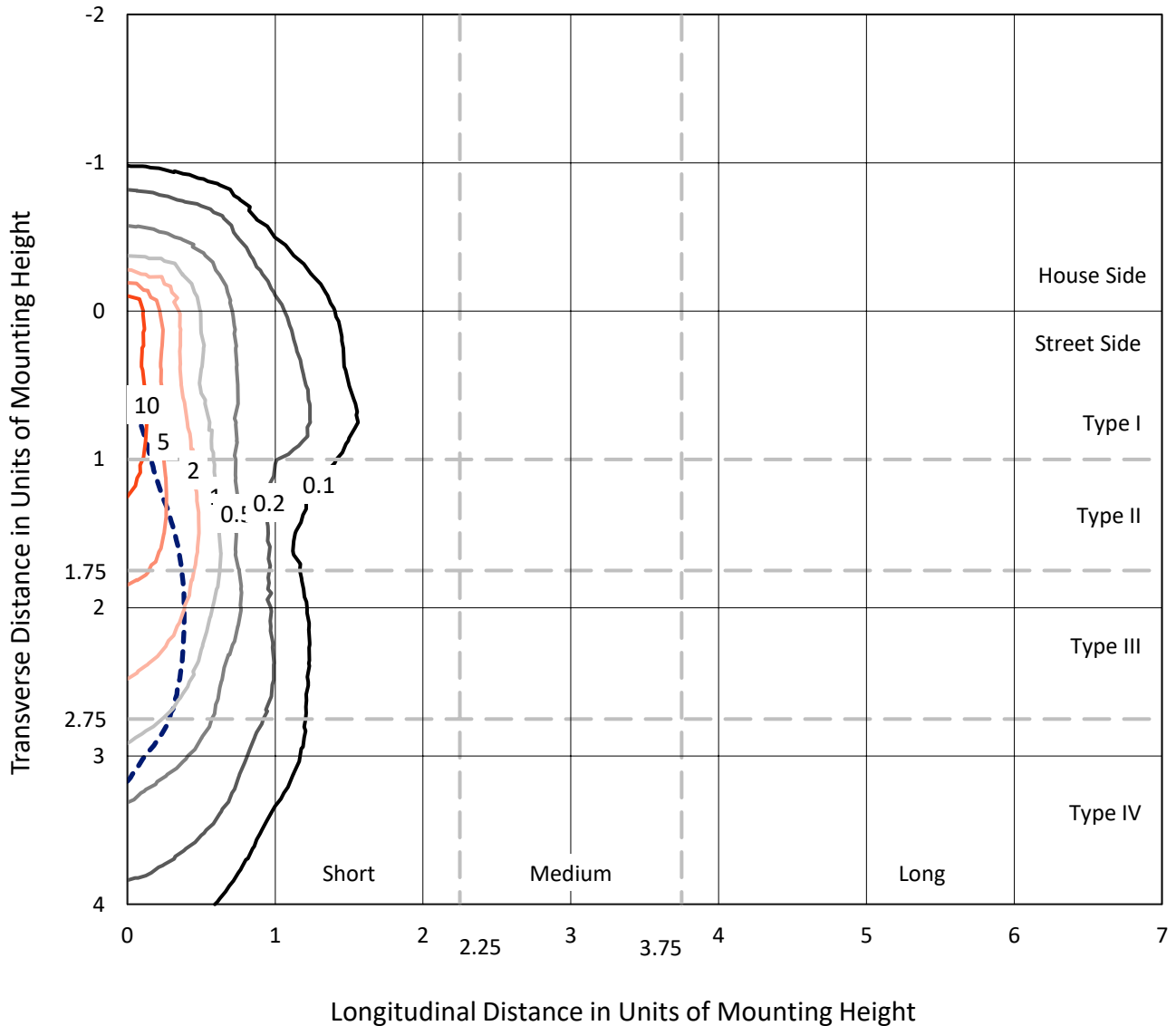
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

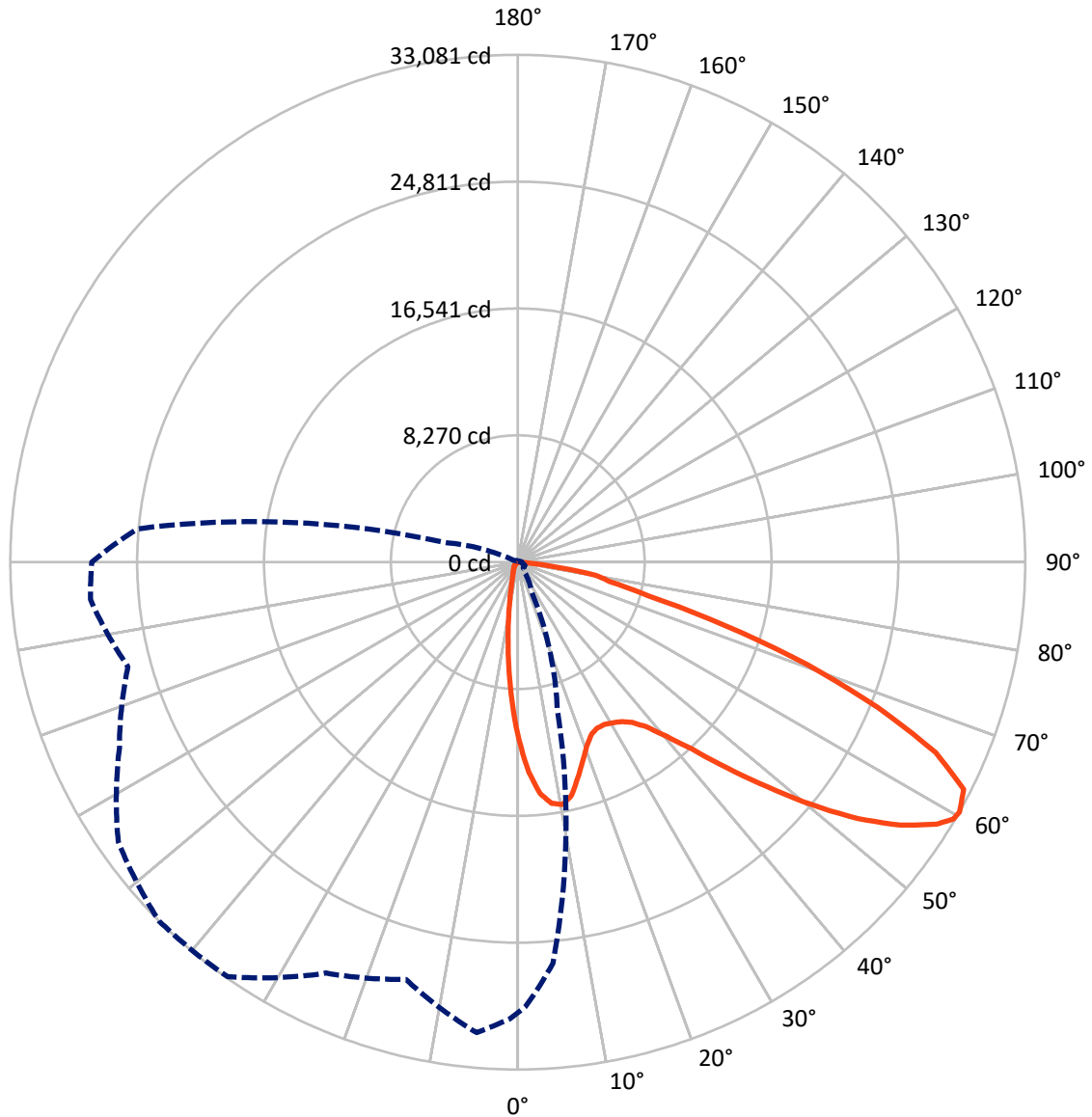
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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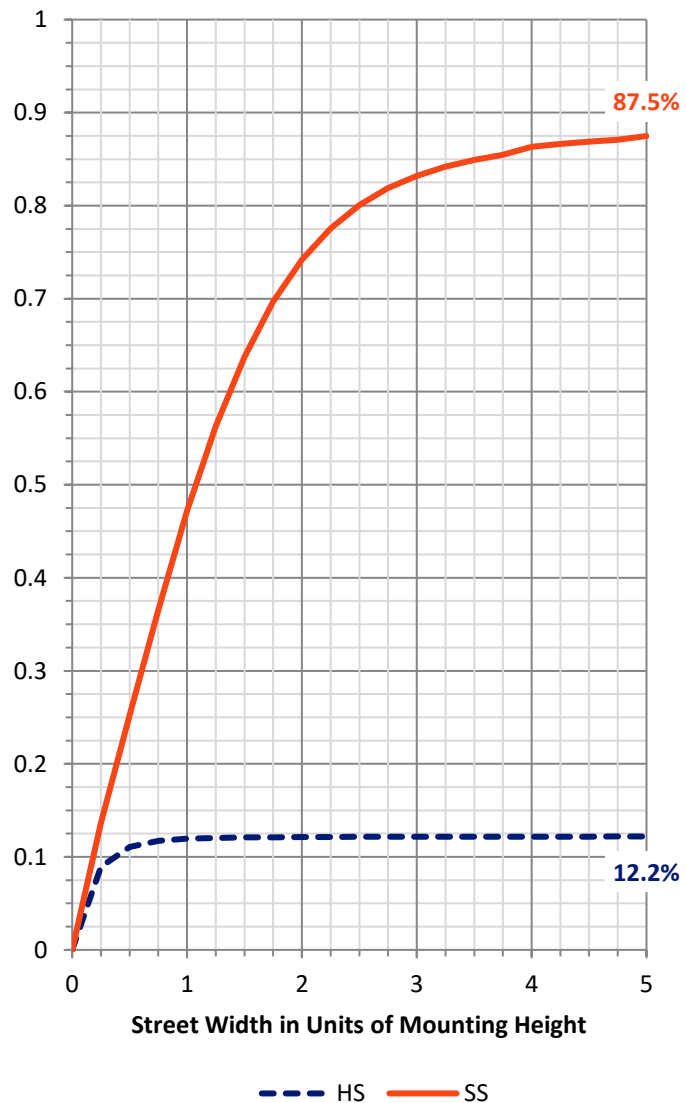
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4346.6	0.0	4346.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	30894.4	0.0	30894.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	35241.0	0.0	35241.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	866.3	2.5
10°-20°	1720.5	4.9
20°-30°	2522.7	7.2
30°-40°	3751.7	10.6
40°-50°	5459.9	15.5
50°-60°	7873.7	22.3
60°-70°	8660.2	24.6
70°-80°	3879.1	11.0
80°-90°	506.9	1.4
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°	35241.0	100.0
0°-180°	35241.0	100.0



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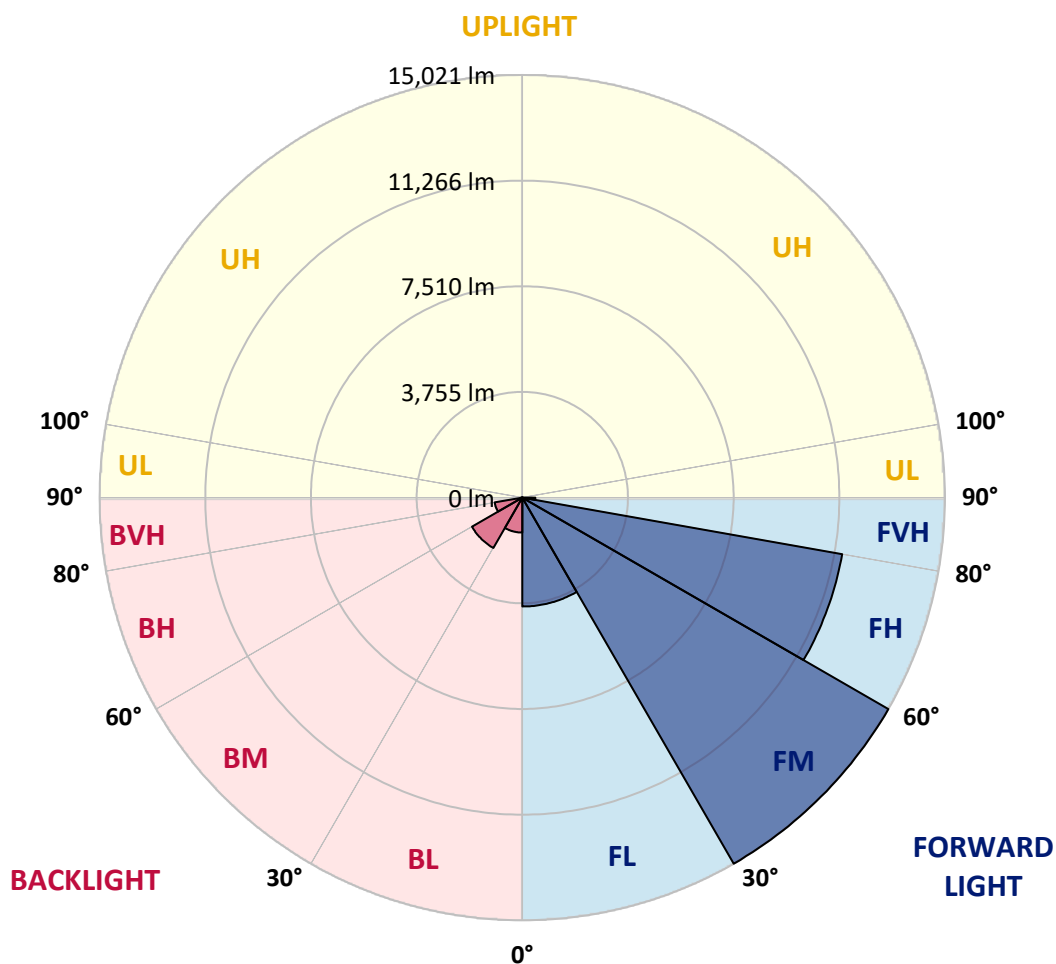
CATALOG NUMBER: GALN-SA7D-730-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3867.6	11.0			
FM	(30°-60°)	15020.8	42.6			
FH	(60°-80°)	11542.5	32.8			G4/12000
FVH	(80°-90°)	463.5	1.3			G3/500
BL	(0°-30°)	1242.0	3.5	B3/2500		
BM	(30°-60°)	2064.5	5.9	B2/2500		
BH	(60°-80°)	996.8	2.8	B2/1000		G2/1000
BVH	(80°-90°)	43.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7
2.5°	12804.9	12748.7	12620.1	12229.0	11888.8	11444.1	10994.0	10640.4	10423.4	10024.3	9842.1
5°	12405.8	12432.6	12060.2	11256.5	10361.8	9751.0	9084.0	8553.6	7969.6	7599.9	7211.5
7.5°	11363.7	11310.1	10905.6	9785.9	8698.2	7814.2	6970.4	6284.6	5853.3	5507.7	5218.4
10°	10471.6	10431.5	9914.4	8473.2	7305.2	6643.6	6073.0	5472.9	5009.5	4503.2	4098.6
12.5°	9911.8	9820.7	9226.0	7720.5	6769.5	6153.3	5531.8	4907.7	4267.4	3755.8	3265.5
15°	9724.2	9593.0	8931.3	7460.6	6426.6	5644.3	4864.8	4146.9	3410.2	2844.9	2475.3
17.5°	10064.5	9847.5	9142.9	7415.1	6016.7	4980.0	4021.0	3086.0	2319.9	1888.6	1660.9
20°	10844.0	10594.9	9678.7	7369.5	5561.3	4235.3	3056.6	2180.6	1604.6	1368.9	1243.0
22.5°	12001.3	11658.4	10471.6	7441.9	5140.7	3509.3	2207.4	1540.3	1275.1	1127.8	1039.4
25°	13391.6	13105.0	11476.2	7699.0	4808.5	2938.7	1706.4	1259.1	1074.2	983.1	916.2
27.5°	14915.9	14457.8	12775.5	8007.1	4505.8	2496.7	1497.5	1125.1	956.4	873.3	838.5
30°	16000.8	15644.5	13863.1	8221.4	4128.1	2164.5	1368.9	1109.0	959.0	859.9	795.6
32.5°	17072.3	16616.9	14773.9	8320.5	3852.2	1934.1	1184.1	967.1	841.2	790.3	726.0
35°	18218.9	17742.0	15682.0	8266.9	3645.9	1781.4	1074.2	862.6	720.6	634.9	570.6
37.5°	19378.8	18875.2	16584.8	8074.1	3517.3	1719.8	988.5	819.7	680.4	592.0	522.4
40°	20755.8	20083.4	17431.3	7916.0	3383.4	1687.7	932.2	792.9	651.0	557.2	487.6
42.5°	21880.9	21240.6	18232.3	7833.0	3292.3	1612.7	932.2	771.5	632.2	527.7	455.4
45°	22947.1	22282.7	19097.5	7899.9	3254.8	1518.9	943.0	768.8	618.8	506.3	434.0
47.5°	23839.1	23263.2	19986.9	8151.8	3206.6	1417.1	886.7	806.3	610.8	487.6	412.5
50°	24891.9	24334.7	21162.9	8660.7	3120.9	1315.3	817.1	867.9	608.1	471.5	393.8
52.5°	26376.0	25773.2	22786.3	9239.4	2984.2	1159.9	752.8	859.9	597.4	444.7	375.0
55°	28189.6	27702.0	24666.9	9933.2	2796.7	985.8	651.0	763.5	565.2	399.1	342.9
57.5°	29352.2	28937.0	26076.0	10233.2	2510.1	806.3	573.3	640.2	517.0	356.3	305.4
59°	29488.8	29113.8	26370.6	10134.1	2322.6	736.7	535.8	549.2	503.6	332.2	284.0
60°	29373.6	28985.2	26252.8	9941.2	2148.4	688.5	503.6	487.6	506.3	318.8	267.9
62.5°	28634.3	27969.9	25108.9	8963.4	1877.9	632.2	447.4	399.1	447.4	286.6	238.4
65°	27206.4	26209.9	22845.3	7586.5	1770.7	600.1	380.4	334.9	340.2	251.8	206.3
67.5°	24712.4	23456.0	19831.6	6164.0	1725.2	602.7	321.5	300.0	262.5	214.3	182.2
70°	20769.1	19515.4	15912.4	5071.1	1703.8	602.7	273.2	257.2	219.7	179.5	158.1
72.5°	14717.6	13367.5	10734.2	3983.5	1535.0	600.1	233.1	233.1	179.5	150.0	128.6
75°	8315.2	8325.9	6748.0	2818.2	1275.1	495.6	187.5	184.8	131.3	115.2	96.4
77.5°	4846.0	4760.3	4548.7	1210.8	592.0	225.0	131.3	112.5	91.1	83.0	69.7
80°	2491.3	2049.3	1995.7	439.3	211.6	142.0	91.1	64.3	58.9	53.6	48.2
82.5°	736.7	739.4	659.0	176.8	117.9	93.8	45.5	34.8	32.1	29.5	29.5
85°	50.9	32.1	37.5	53.6	72.3	37.5	2.7	8.0	8.0	10.7	13.4
87.5°	5.4	2.7	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°	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7
2.5°	9641.2	9759.1	9539.4	9544.8	9362.6	9421.5	9207.2	9276.9	9151.0	9247.4	9531.4
5°	7254.3	7281.1	7104.3	7048.1	7074.9	7184.7	7227.5	7032.0	7115.0	6951.6	6940.9
7.5°	5111.3	5143.4	5041.6	5028.2	5221.1	5175.5	5258.6	5057.7	4867.5	4950.5	4797.8
10°	3970.1	3836.1	3627.2	3568.2	3530.7	3554.8	3554.8	3372.7	3345.9	3273.6	3383.4
12.5°	3134.3	2970.8	2772.6	2504.7	2437.8	2432.4	2333.3	2172.6	2121.7	2060.0	2151.1
15°	2277.0	2210.1	2044.0	1893.9	1741.3	1711.8	1551.1	1419.8	1245.7	1221.6	1213.5
17.5°	1602.0	1502.8	1500.2	1414.4	1326.0	1267.1	1117.1	967.1	900.1	892.1	892.1
20°	1200.1	1165.3	1109.0	1098.3	1071.5	1004.6	870.6	790.3	758.1	760.8	771.5
22.5°	1009.9	985.8	934.9	910.8	900.1	841.2	742.0	688.5	672.4	672.4	675.1
25°	902.8	881.3	825.1	787.6	774.2	731.3	653.6	613.5	600.1	600.1	600.1
27.5°	822.4	795.6	736.7	704.5	680.4	632.2	584.0	543.8	530.4	530.4	533.1
30°	766.2	736.7	683.1	640.2	602.7	559.9	519.7	484.9	468.8	466.1	468.8
32.5°	691.1	664.4	610.8	584.0	541.1	490.2	458.1	425.9	409.9	412.5	409.9
35°	538.4	530.4	492.9	500.9	476.8	434.0	404.5	369.7	350.9	348.3	353.6
37.5°	490.2	458.1	415.2	417.9	409.9	393.8	345.6	308.1	294.7	294.7	297.4
40°	452.7	420.6	372.4	348.3	350.9	350.9	300.0	259.8	246.5	243.8	249.1
42.5°	420.6	388.4	334.9	294.7	284.0	297.4	254.5	214.3	200.9	195.6	200.9
45°	399.1	364.3	302.7	257.2	225.0	241.1	209.0	176.8	160.7	160.7	158.1
47.5°	377.7	345.6	278.6	222.3	187.5	179.5	171.4	142.0	125.9	123.2	125.9
50°	359.0	326.8	251.8	192.9	158.1	139.3	139.3	112.5	101.8	96.4	99.1
52.5°	340.2	305.4	227.7	171.4	136.6	112.5	99.1	91.1	83.0	80.4	83.0
55°	313.4	278.6	203.6	147.3	117.9	93.8	77.7	75.0	69.7	64.3	69.7
57.5°	281.3	249.1	179.5	125.9	93.8	72.3	64.3	61.6	56.3	53.6	53.6
59°	262.5	233.1	166.1	109.8	83.0	64.3	58.9	56.3	50.9	45.5	48.2
60°	251.8	227.7	158.1	101.8	75.0	58.9	53.6	50.9	45.5	42.9	45.5
62.5°	222.3	203.6	139.3	83.0	58.9	42.9	37.5	40.2	37.5	34.8	37.5
65°	195.6	179.5	117.9	64.3	45.5	29.5	26.8	34.8	32.1	29.5	32.1
67.5°	174.1	155.4	99.1	48.2	32.1	16.1	18.8	29.5	29.5	26.8	29.5
70°	150.0	133.9	80.4	34.8	16.1	8.0	13.4	21.4	26.8	24.1	26.8
72.5°	123.2	104.5	61.6	24.1	8.0	0.0	8.0	18.8	26.8	24.1	26.8
75°	96.4	77.7	45.5	13.4	0.0	0.0	2.7	16.1	26.8	24.1	26.8
77.5°	69.7	56.3	26.8	2.7	0.0	0.0	2.7	16.1	26.8	24.1	26.8
80°	45.5	40.2	10.7	0.0	0.0	0.0	2.7	16.1	26.8	26.8	29.5
82.5°	29.5	21.4	0.0	0.0	0.0	0.0	5.4	21.4	29.5	32.1	32.1
85°	13.4	0.0	0.0	0.0	0.0	0.0	10.7	26.8	34.8	34.8	34.8
87.5°	0.0	0.0	0.0	0.0	0.0	5.4	18.8	32.1	40.2	40.2	40.2
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°	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7
2.5°	9579.6	9748.3	9986.8	10353.8	10651.1	11119.9	11478.9	11969.1	12464.7	12614.7	12847.8
5°	7050.7	7267.7	7808.9	8301.8	8612.5	9603.7	10230.5	11219.0	12105.7	12531.7	12995.1
7.5°	4896.9	5154.1	5566.7	6255.1	6908.8	7715.1	8727.7	9858.2	11157.4	11765.5	12419.2
10°	3437.0	3758.4	4339.7	4905.0	5727.4	6493.5	7492.8	8741.1	10174.3	10892.2	11711.9
12.5°	2169.9	2456.5	3225.3	3860.2	4886.2	5775.6	6697.1	7827.6	9488.5	10225.2	11085.1
15°	1240.3	1481.4	1840.4	2654.7	3793.3	4969.3	6118.5	7431.1	9137.6	10045.7	10975.3
17.5°	924.2	988.5	1149.2	1610.0	2646.7	4021.0	5585.4	7310.6	9376.0	10442.2	11503.0
20°	776.9	819.7	894.7	1076.9	1687.7	3096.8	5065.7	7332.0	10147.5	11486.9	12494.2
22.5°	696.5	723.3	784.9	902.8	1151.9	2255.6	4457.6	7457.9	11082.4	12770.1	13932.7
25°	610.8	645.6	699.2	801.0	959.0	1564.5	3857.5	7739.2	12392.4	14398.8	15491.8
27.5°	543.8	576.0	629.5	723.3	841.2	1194.8	3158.4	7980.3	13774.7	16038.3	16933.0
30°	476.8	509.0	562.6	637.6	744.7	967.1	2405.6	8122.3	15116.8	17267.9	17956.4
32.5°	420.6	447.4	498.3	565.2	653.6	819.7	1896.6	7974.9	16142.8	18385.0	18845.7
35°	364.3	396.5	439.3	500.9	578.6	699.2	1577.8	7466.0	17024.1	19534.2	19700.3
37.5°	305.4	342.9	388.4	444.7	506.3	642.9	1267.1	6903.4	17967.1	20967.4	20694.1
40°	257.2	292.0	334.9	396.5	452.7	589.3	975.1	6303.3	18985.0	22312.2	21779.1
42.5°	209.0	246.5	297.4	353.6	447.4	514.3	755.4	5681.8	19898.5	23482.8	22759.5
45°	166.1	198.2	251.8	324.1	444.7	442.0	584.0	5068.4	20587.0	24318.6	23490.9
47.5°	131.3	158.1	211.6	316.1	409.9	375.0	468.8	4688.0	21310.3	25071.4	24050.7
50°	104.5	131.3	182.2	329.5	359.0	321.5	393.8	4749.6	22009.5	25454.5	24281.1
52.5°	88.4	115.2	158.1	259.8	275.9	281.3	345.6	5033.6	22912.2	25864.3	24739.2
55°	77.7	101.8	133.9	182.2	214.3	251.8	316.1	5239.8	24120.4	26743.0	25749.1
57.5°	61.6	88.4	120.5	155.4	176.8	219.7	292.0	5255.9	25213.4	27870.8	27091.2
59°	56.3	80.4	112.5	147.3	158.1	198.2	275.9	5119.3	25253.6	28039.6	27707.4
60°	50.9	77.7	107.2	136.6	150.0	187.5	262.5	4961.2	24889.2	27771.7	27961.9
62.5°	42.9	67.0	93.8	109.8	128.6	155.4	227.7	4388.0	23123.9	26558.2	27490.4
65°	37.5	58.9	80.4	91.1	107.2	133.9	200.9	3512.0	21173.7	24913.3	26140.3
67.5°	34.8	53.6	69.7	77.7	93.8	123.2	179.5	2480.6	18647.5	22826.5	24112.4
70°	32.1	50.9	61.6	72.3	83.0	104.5	152.7	1446.6	14364.0	19167.2	20525.4
72.5°	32.1	48.2	53.6	61.6	72.3	93.8	142.0	782.2	9820.7	14621.2	16375.8
75°	32.1	45.5	48.2	53.6	64.3	85.7	125.9	409.9	6348.9	10158.2	12537.0
77.5°	32.1	42.9	48.2	50.9	61.6	75.0	109.8	257.2	4229.9	7115.0	8473.2
80°	34.8	42.9	45.5	50.9	58.9	69.7	91.1	171.4	2486.0	4280.8	5156.8
82.5°	37.5	42.9	48.2	53.6	61.6	67.0	80.4	107.2	1146.5	2831.5	3203.9
85°	40.2	45.5	50.9	56.3	64.3	67.0	75.0	77.7	187.5	1277.8	1727.9
87.5°	42.9	48.2	53.6	58.9	69.7	69.7	69.7	69.7	64.3	136.6	348.3
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: P456497

CATALOG NUMBER: GALN-SA7D-730-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7	11647.7
2.5°	13142.5	13445.2	13656.8	13710.4	13557.7	13488.0	13295.1	12995.1	12813.0	12804.9
5°	13849.7	14559.6	15052.5	15135.5	14840.8	14342.6	13750.6	12987.1	12539.7	12405.8
7.5°	13729.1	14972.1	15765.1	15880.2	15384.7	14433.7	13287.1	12057.5	11570.0	11363.7
10°	13233.5	14749.8	15882.9	16065.1	15403.4	14064.0	12606.7	11235.1	10629.7	10471.6
12.5°	12810.3	14342.6	15349.8	15601.6	15100.7	13763.9	12199.5	10707.4	10059.1	9911.8
15°	12625.4	13860.4	14476.5	14605.1	14522.1	13576.4	12156.6	10627.0	9885.0	9724.2
17.5°	12810.3	13450.5	13528.2	13659.5	13844.3	13557.7	12569.2	11063.7	10262.7	10064.5
20°	13295.1	13094.2	12772.8	12829.0	13252.3	13635.4	13303.2	12030.7	11055.6	10844.0
22.5°	14120.2	13005.8	12277.2	12229.0	12764.7	13895.2	14380.1	13340.7	12210.2	12001.3
25°	15132.8	13228.2	12095.0	11990.5	12574.5	14275.6	15550.7	14945.3	13710.4	13391.6
27.5°	16236.5	13688.9	12095.0	11993.2	12558.5	14613.1	16552.6	16365.1	15264.1	14915.9
30°	16842.0	14069.3	12269.1	12154.0	12756.7	14808.7	17088.4	17626.9	16432.1	16000.8
32.5°	17383.1	14597.1	12609.4	12392.4	13171.9	15098.0	17567.9	18698.4	17361.6	17072.3
35°	17881.3	15162.3	13078.2	12826.3	13718.4	15494.5	18098.3	19823.5	18655.5	18218.9
37.5°	18430.5	15818.6	13809.5	13595.2	14631.9	16266.0	18727.9	21302.2	19928.0	19378.8
40°	19027.9	16579.4	15012.3	14921.2	16083.8	17139.3	19523.5	22880.1	21379.9	20755.8
42.5°	19636.0	17455.4	16485.7	16635.7	17728.7	18363.5	20340.5	24093.6	22569.3	21880.9
45°	20187.8	18575.2	18401.0	19143.1	19646.7	19558.3	20946.0	24948.2	23606.1	22947.1
47.5°	20884.3	20206.6	20718.3	21862.1	21875.5	20857.6	21404.0	25647.3	24498.1	23839.1
50°	21663.9	22132.7	23710.5	24875.8	24562.4	22135.4	21939.8	26475.1	25419.6	24891.9
52.5°	22566.7	24289.2	26475.1	27769.0	27037.7	23528.4	22831.9	27369.8	26882.3	26376.0
55°	23616.8	25759.9	29231.6	30263.0	29526.3	25258.9	24187.4	28583.4	28535.1	28189.6
57.5°	24803.5	27313.6	30828.2	32223.9	31567.6	27289.5	26081.3	29727.2	29545.1	29352.2
59°	25741.1	28111.9	31532.8	32979.4	32582.9	28711.9	27353.8	30439.8	29778.1	29488.8
60°	26309.0	28653.0	31792.6	33081.2	32990.1	29558.5	28160.1	30788.1	29775.5	29373.6
62.5°	27994.0	29598.7	31693.5	32628.4	32984.7	31181.9	30525.5	31171.1	29223.6	28634.3
65°	28594.1	29285.2	30051.4	29936.2	30241.6	31098.8	32036.4	30750.6	28044.9	27206.4
67.5°	27426.1	25848.3	26118.8	25350.0	25200.0	27648.4	31422.9	28693.2	25738.4	24712.4
70°	23118.5	19802.1	19665.5	20019.1	19049.3	22384.5	28216.4	24731.2	21931.8	20769.1
72.5°	18197.5	13994.3	12842.4	14144.3	14114.9	17077.7	23440.0	17549.2	14816.7	14717.6
75°	14310.4	9743.0	8550.9	8762.5	9169.7	12362.9	18668.9	11144.0	9124.2	8315.2
77.5°	9606.4	6903.4	6440.0	6180.1	6619.4	7937.4	11811.1	6043.5	5116.6	4846.0
80°	5537.2	5014.8	5695.2	5170.2	5405.9	5001.4	5874.7	2772.6	2301.1	2491.3
82.5°	3603.1	2855.7	3043.2	2261.0	3091.4	3118.2	1885.9	819.7	693.8	736.7
85°	2252.9	1339.4	752.8	535.8	1066.2	1960.9	589.3	50.9	58.9	50.9
87.5°	584.0	222.3	93.8	139.3	171.4	152.7	136.6	8.0	2.7	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)