

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: P451857

Luminaire Tested: **GALN-SA2D-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451857
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-SA2D-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 10175 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

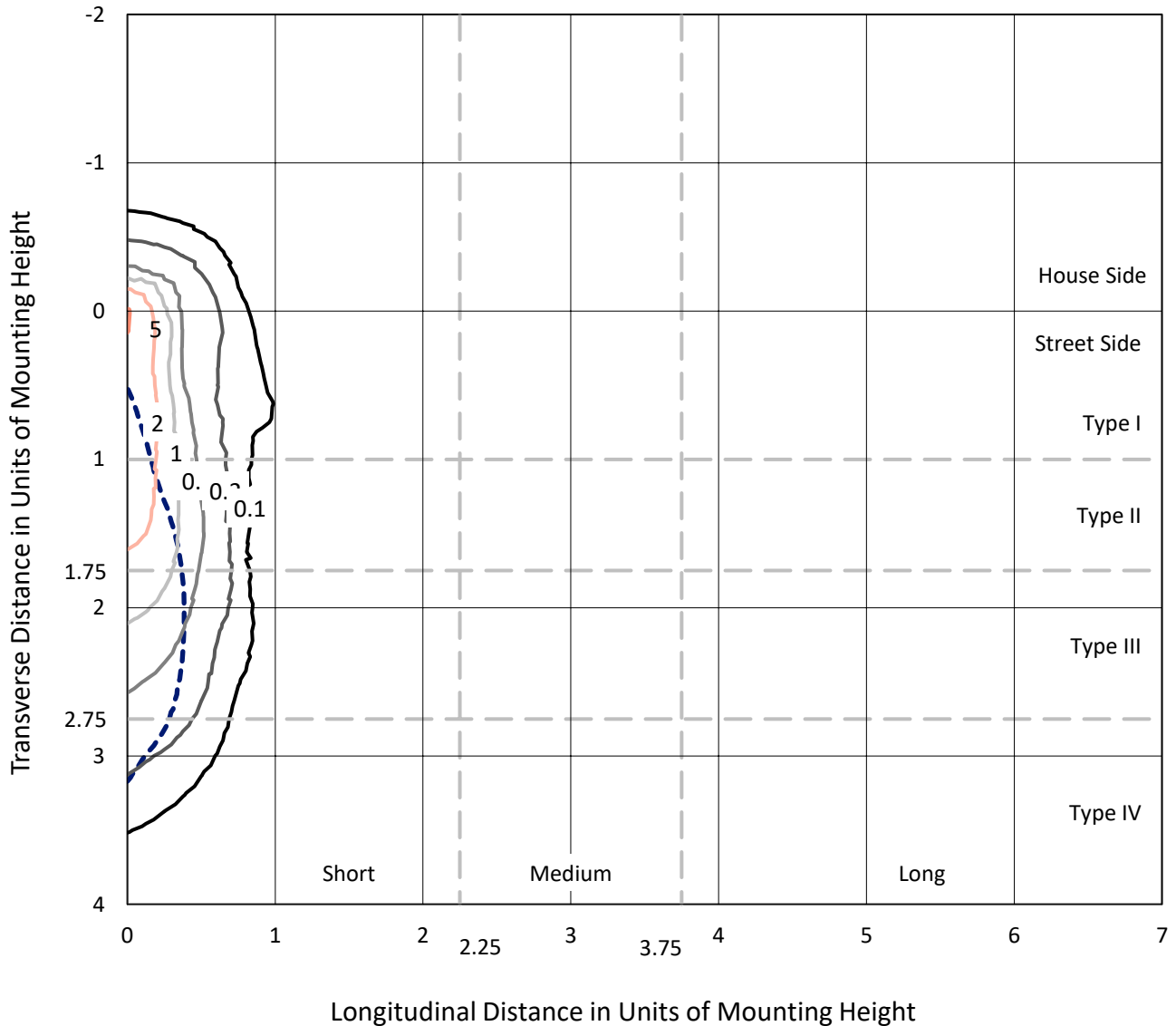
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

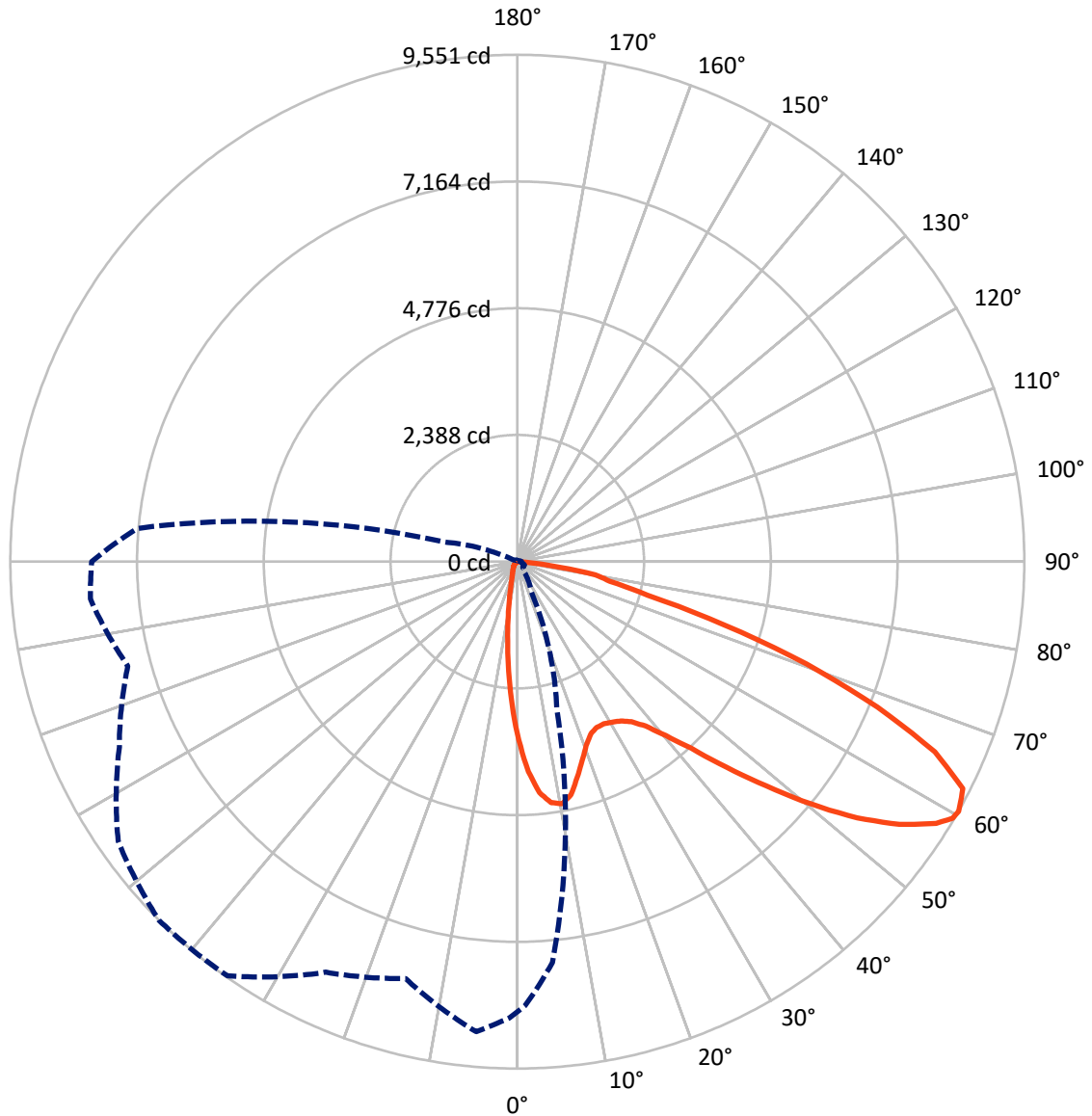
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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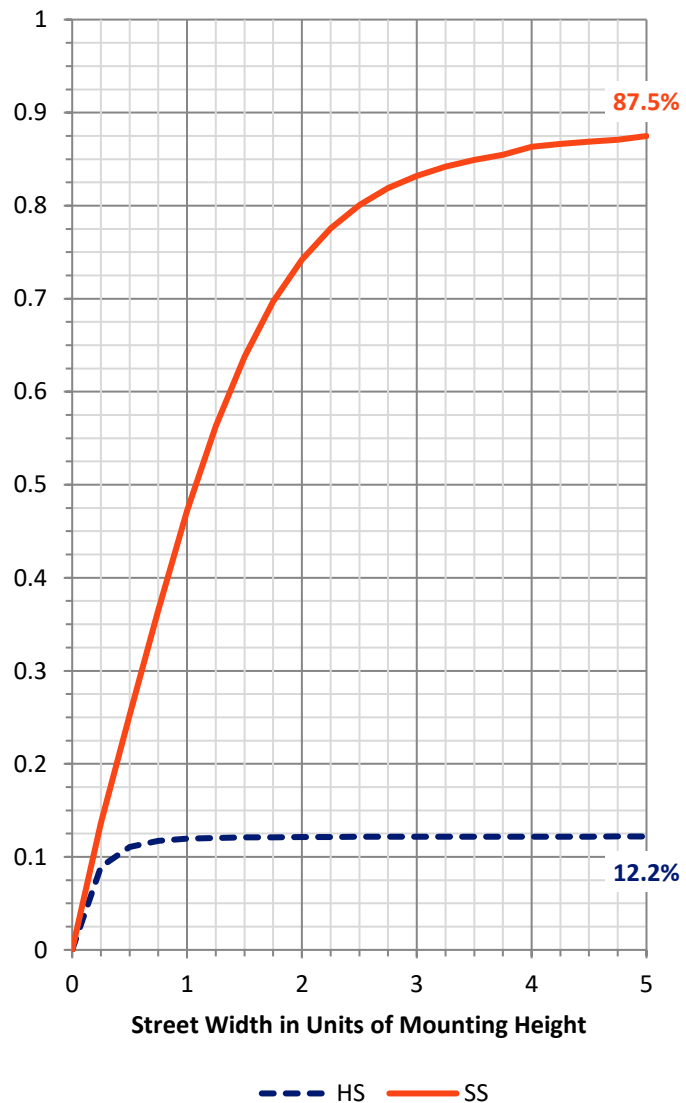
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1255.0	0.0	1255.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	8920.0	0.0	8920.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	10175.0	0.0	10175.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	2.5
10°-20°	496.8	4.9
20°-30°	728.4	7.2
30°-40°	1083.2	10.6
40°-50°	1576.4	15.5
50°-60°	2273.3	22.3
60°-70°	2500.4	24.6
70°-80°	1120.0	11.0
80°-90°	146.3	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°	10175.0	100.0
0°-180°	10175.0	100.0



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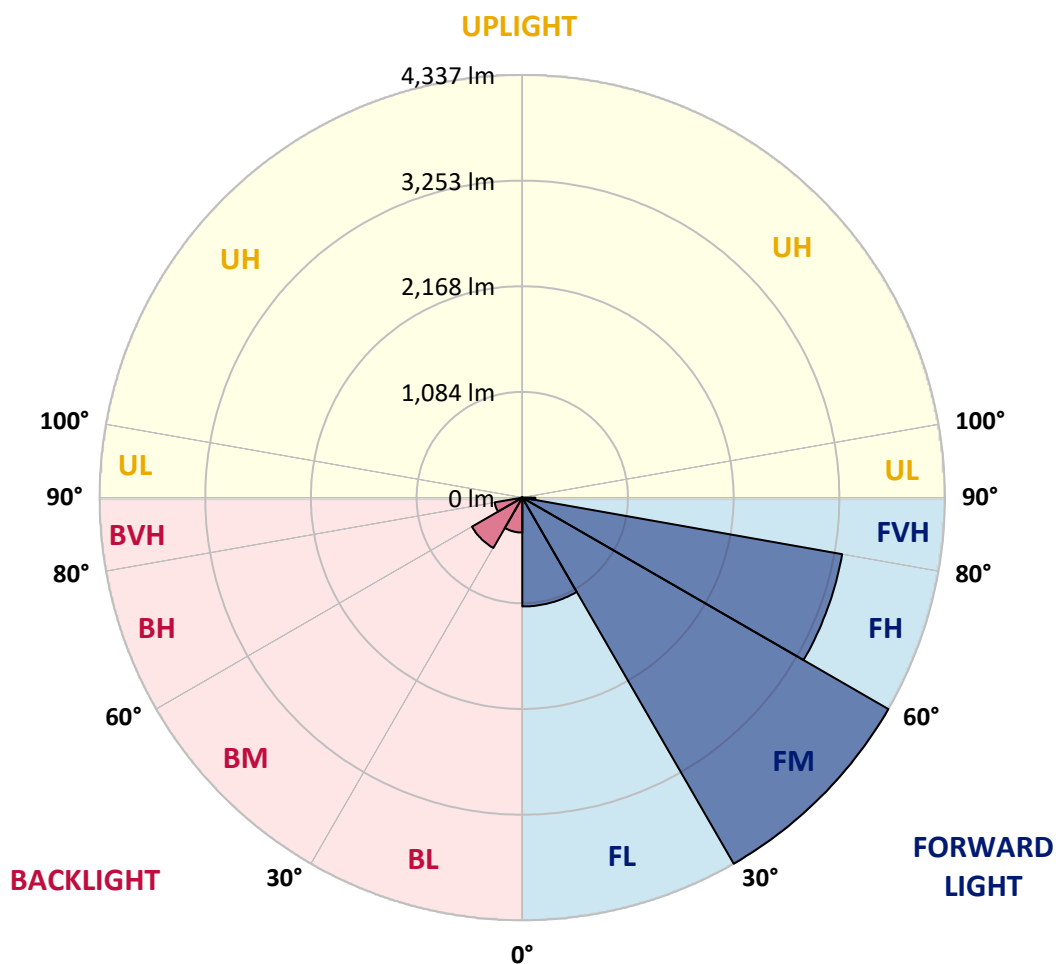
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1116.7	11.0			
FM (30°-60°)	4336.9	42.6			
FH (60°-80°)	3332.6	32.8			G2/5000
FVH (80°-90°)	133.8	1.3			G2/225
BL (0°-30°)	358.6	3.5	B1/500		
BM (30°-60°)	596.1	5.9	B1/1000		
BH (60°-80°)	287.8	2.8	B1/500		G1/500
BVH (80°-90°)	12.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0
2.5°	3697.1	3680.9	3643.7	3530.8	3432.6	3304.2	3174.3	3072.2	3009.5	2894.3	2841.7
5°	3581.9	3589.6	3482.1	3250.1	2991.7	2815.4	2622.8	2469.6	2301.0	2194.3	2082.1
7.5°	3281.0	3265.5	3148.7	2825.4	2511.4	2256.2	2012.5	1814.5	1690.0	1590.2	1506.7
10°	3023.4	3011.8	2862.6	2446.4	2109.2	1918.2	1753.4	1580.2	1446.4	1300.2	1183.4
12.5°	2861.8	2835.5	2663.8	2229.1	1954.5	1776.6	1597.2	1417.0	1232.1	1084.4	942.8
15°	2807.6	2769.7	2578.7	2154.1	1855.5	1629.7	1404.6	1197.3	984.6	821.4	714.7
17.5°	2905.9	2843.2	2639.8	2140.9	1737.2	1437.9	1161.0	891.0	669.8	545.3	479.5
20°	3130.9	3059.0	2794.5	2127.8	1605.7	1222.8	882.5	629.6	463.3	395.2	358.9
22.5°	3465.1	3366.1	3023.4	2148.7	1484.3	1013.2	637.3	444.7	368.2	325.6	300.1
25°	3866.5	3783.7	3313.5	2222.9	1388.4	848.5	492.7	363.5	310.2	283.9	264.5
27.5°	4306.6	4174.3	3688.6	2311.9	1301.0	720.9	432.4	324.9	276.1	252.1	242.1
30°	4619.8	4517.0	4002.6	2373.7	1191.9	625.0	395.2	320.2	276.9	248.3	229.7
32.5°	4929.2	4797.7	4265.6	2402.4	1112.2	558.4	341.9	279.2	242.9	228.2	209.6
35°	5260.3	5122.6	4527.8	2386.9	1052.7	514.3	310.2	249.1	208.1	183.3	164.7
37.5°	5595.2	5449.8	4788.5	2331.2	1015.5	496.6	285.4	236.7	196.5	170.9	150.8
40°	5992.7	5798.6	5032.9	2285.6	976.9	487.3	269.2	228.9	187.9	160.9	140.8
42.5°	6317.6	6132.7	5264.1	2261.6	950.6	465.6	269.2	222.8	182.5	152.4	131.5
45°	6625.4	6433.6	5514.0	2280.9	939.7	438.5	272.3	222.0	178.7	146.2	125.3
47.5°	6883.0	6716.7	5770.7	2353.6	925.8	409.2	256.0	232.8	176.3	140.8	119.1
50°	7186.9	7026.1	6110.3	2500.6	901.1	379.8	235.9	250.6	175.6	136.1	113.7
52.5°	7615.4	7441.4	6579.0	2667.6	861.6	334.9	217.3	248.3	172.5	128.4	108.3
55°	8139.1	7998.3	7122.0	2868.0	807.5	284.6	187.9	220.4	163.2	115.2	99.0
57.5°	8474.7	8354.9	7528.8	2954.6	724.7	232.8	165.5	184.9	149.3	102.9	88.2
59°	8514.2	8405.9	7613.9	2926.0	670.6	212.7	154.7	158.6	145.4	95.9	82.0
60°	8480.9	8368.8	7579.9	2870.3	620.3	198.8	145.4	140.8	146.2	92.0	77.3
62.5°	8267.5	8075.6	7249.6	2588.0	542.2	182.5	129.2	115.2	129.2	82.8	68.8
65°	7855.2	7567.5	6596.0	2190.4	511.3	173.3	109.8	96.7	98.2	72.7	59.6
67.5°	7135.1	6772.4	5725.9	1779.7	498.1	174.0	92.8	86.6	75.8	61.9	52.6
70°	5996.6	5634.6	4594.3	1464.2	491.9	174.0	78.9	74.3	63.4	51.8	45.6
72.5°	4249.4	3859.5	3099.2	1150.1	443.2	173.3	67.3	67.3	51.8	43.3	37.1
75°	2400.8	2403.9	1948.3	813.7	368.2	143.1	54.1	53.4	37.9	33.3	27.8
77.5°	1399.2	1374.4	1313.3	349.6	170.9	65.0	37.9	32.5	26.3	24.0	20.1
80°	719.3	591.7	576.2	126.8	61.1	41.0	26.3	18.6	17.0	15.5	13.9
82.5°	212.7	213.5	190.3	51.0	34.0	27.1	13.1	10.1	9.3	8.5	8.5
85°	14.7	9.3	10.8	15.5	20.9	10.8	0.8	2.3	2.3	3.1	3.9
87.5°	1.5	0.8	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°	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0
2.5°	2783.7	2817.7	2754.3	2755.8	2703.2	2720.2	2658.4	2678.5	2642.1	2670.0	2752.0
5°	2094.5	2102.3	2051.2	2035.0	2042.7	2074.4	2086.8	2030.3	2054.3	2007.1	2004.0
7.5°	1475.8	1485.0	1455.6	1451.8	1507.5	1494.3	1518.3	1460.3	1405.4	1429.3	1385.3
10°	1146.3	1107.6	1047.3	1030.2	1019.4	1026.4	1026.4	973.8	966.0	945.2	976.9
12.5°	904.9	857.8	800.5	723.2	703.8	702.3	673.7	627.3	612.6	594.8	621.1
15°	657.4	638.1	590.1	546.8	502.7	494.2	447.8	409.9	359.7	352.7	350.4
17.5°	462.5	433.9	433.1	408.4	382.9	365.8	322.5	279.2	259.9	257.6	257.6
20°	346.5	336.5	320.2	317.1	309.4	290.0	251.4	228.2	218.9	219.7	222.8
22.5°	291.6	284.6	269.9	263.0	259.9	242.9	214.2	198.8	194.1	194.1	194.9
25°	260.7	254.5	238.2	227.4	223.5	211.2	188.7	177.1	173.3	173.3	173.3
27.5°	237.5	229.7	212.7	203.4	196.5	182.5	168.6	157.0	153.1	153.1	153.9
30°	221.2	212.7	197.2	184.9	174.0	161.7	150.1	140.0	135.4	134.6	135.4
32.5°	199.6	191.8	176.3	168.6	156.2	141.5	132.3	123.0	118.3	119.1	118.3
35°	155.5	153.1	142.3	144.6	137.7	125.3	116.8	106.7	101.3	100.5	102.1
37.5°	141.5	132.3	119.9	120.7	118.3	113.7	99.8	88.9	85.1	85.1	85.9
40°	130.7	121.4	107.5	100.5	101.3	101.3	86.6	75.0	71.2	70.4	71.9
42.5°	121.4	112.2	96.7	85.1	82.0	85.9	73.5	61.9	58.0	56.5	58.0
45°	115.2	105.2	87.4	74.3	65.0	69.6	60.3	51.0	46.4	46.4	45.6
47.5°	109.1	99.8	80.4	64.2	54.1	51.8	49.5	41.0	36.4	35.6	36.4
50°	103.6	94.4	72.7	55.7	45.6	40.2	40.2	32.5	29.4	27.8	28.6
52.5°	98.2	88.2	65.7	49.5	39.4	32.5	28.6	26.3	24.0	23.2	24.0
55°	90.5	80.4	58.8	42.5	34.0	27.1	22.4	21.7	20.1	18.6	20.1
57.5°	81.2	71.9	51.8	36.4	27.1	20.9	18.6	17.8	16.2	15.5	15.5
59°	75.8	67.3	48.0	31.7	24.0	18.6	17.0	16.2	14.7	13.1	13.9
60°	72.7	65.7	45.6	29.4	21.7	17.0	15.5	14.7	13.1	12.4	13.1
62.5°	64.2	58.8	40.2	24.0	17.0	12.4	10.8	11.6	10.8	10.1	10.8
65°	56.5	51.8	34.0	18.6	13.1	8.5	7.7	10.1	9.3	8.5	9.3
67.5°	50.3	44.9	28.6	13.9	9.3	4.6	5.4	8.5	8.5	7.7	8.5
70°	43.3	38.7	23.2	10.1	4.6	2.3	3.9	6.2	7.7	7.0	7.7
72.5°	35.6	30.2	17.8	7.0	2.3	0.0	2.3	5.4	7.7	7.0	7.7
75°	27.8	22.4	13.1	3.9	0.0	0.0	0.8	4.6	7.7	7.0	7.7
77.5°	20.1	16.2	7.7	0.8	0.0	0.0	0.8	4.6	7.7	7.0	7.7
80°	13.1	11.6	3.1	0.0	0.0	0.0	0.8	4.6	7.7	7.7	8.5
82.5°	8.5	6.2	0.0	0.0	0.0	0.0	1.5	6.2	8.5	9.3	9.3
85°	3.9	0.0	0.0	0.0	0.0	0.0	3.1	7.7	10.1	10.1	10.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	5.4	9.3	11.6	11.6	11.6
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°	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0
2.5°	2765.9	2814.6	2883.4	2989.4	3075.3	3210.6	3314.3	3455.8	3598.9	3642.2	3709.5
5°	2035.7	2098.4	2254.6	2396.9	2486.7	2772.8	2953.8	3239.2	3495.2	3618.2	3752.0
7.5°	1413.9	1488.1	1607.2	1806.0	1994.7	2227.6	2519.9	2846.3	3221.4	3397.0	3585.7
10°	992.3	1085.2	1253.0	1416.2	1653.6	1874.9	2163.4	2523.8	2937.6	3144.9	3381.5
12.5°	626.5	709.3	931.2	1114.5	1410.8	1667.6	1933.6	2260.0	2739.6	2952.3	3200.6
15°	358.1	427.7	531.4	766.5	1095.2	1434.8	1766.6	2145.6	2638.3	2900.5	3168.8
17.5°	266.8	285.4	331.8	464.8	764.2	1161.0	1612.7	2110.8	2707.1	3014.9	3321.2
20°	224.3	236.7	258.3	310.9	487.3	894.1	1462.6	2116.9	2929.8	3316.6	3607.4
22.5°	201.1	208.8	226.6	260.7	332.6	651.2	1287.0	2153.3	3199.8	3687.1	4022.7
25°	176.3	186.4	201.9	231.3	276.9	451.7	1113.8	2234.5	3578.0	4157.3	4472.9
27.5°	157.0	166.3	181.8	208.8	242.9	345.0	911.9	2304.1	3977.1	4630.7	4889.0
30°	137.7	147.0	162.4	184.1	215.0	279.2	694.6	2345.1	4364.6	4985.7	5184.5
32.5°	121.4	129.2	143.9	163.2	188.7	236.7	547.6	2302.6	4660.8	5308.2	5441.3
35°	105.2	114.5	126.8	144.6	167.1	201.9	455.6	2155.6	4915.3	5640.0	5688.0
37.5°	88.2	99.0	112.2	128.4	146.2	185.6	365.8	1993.2	5187.6	6053.8	5974.9
40°	74.3	84.3	96.7	114.5	130.7	170.2	281.5	1819.9	5481.5	6442.1	6288.2
42.5°	60.3	71.2	85.9	102.1	129.2	148.5	218.1	1640.5	5745.2	6780.1	6571.3
45°	48.0	57.2	72.7	93.6	128.4	127.6	168.6	1463.4	5944.0	7021.4	6782.4
47.5°	37.9	45.6	61.1	91.3	118.3	108.3	135.4	1353.5	6152.8	7238.8	6944.1
50°	30.2	37.9	52.6	95.1	103.6	92.8	113.7	1371.3	6354.7	7349.4	7010.6
52.5°	25.5	33.3	45.6	75.0	79.7	81.2	99.8	1453.3	6615.4	7467.7	7142.9
55°	22.4	29.4	38.7	52.6	61.9	72.7	91.3	1512.9	6964.2	7721.4	7434.5
57.5°	17.8	25.5	34.8	44.9	51.0	63.4	84.3	1517.5	7279.8	8047.0	7822.0
59°	16.2	23.2	32.5	42.5	45.6	57.2	79.7	1478.1	7291.4	8095.8	7999.8
60°	14.7	22.4	30.9	39.4	43.3	54.1	75.8	1432.4	7186.2	8018.4	8073.3
62.5°	12.4	19.3	27.1	31.7	37.1	44.9	65.7	1266.9	6676.5	7668.0	7937.2
65°	10.8	17.0	23.2	26.3	30.9	38.7	58.0	1014.0	6113.4	7193.1	7547.4
67.5°	10.1	15.5	20.1	22.4	27.1	35.6	51.8	716.2	5384.0	6590.6	6961.9
70°	9.3	14.7	17.8	20.9	24.0	30.2	44.1	417.7	4147.3	5534.1	5926.2
72.5°	9.3	13.9	15.5	17.8	20.9	27.1	41.0	225.8	2835.5	4221.5	4728.1
75°	9.3	13.1	13.9	15.5	18.6	24.8	36.4	118.3	1833.1	2932.9	3619.8
77.5°	9.3	12.4	13.9	14.7	17.8	21.7	31.7	74.3	1221.3	2054.3	2446.4
80°	10.1	12.4	13.1	14.7	17.0	20.1	26.3	49.5	717.8	1236.0	1488.9
82.5°	10.8	12.4	13.9	15.5	17.8	19.3	23.2	30.9	331.0	817.5	925.1
85°	11.6	13.1	14.7	16.2	18.6	19.3	21.7	22.4	54.1	368.9	498.9
87.5°	12.4	13.9	15.5	17.0	20.1	20.1	20.1	20.1	18.6	39.4	100.5
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-SA2D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0
2.5°	3794.6	3882.0	3943.1	3958.5	3914.5	3894.3	3838.7	3752.0	3699.4	3697.1
5°	3998.8	4203.7	4346.0	4370.0	4284.9	4141.1	3970.1	3749.7	3620.5	3581.9
7.5°	3964.0	4322.8	4551.8	4585.0	4442.0	4167.4	3836.3	3481.3	3340.6	3281.0
10°	3820.9	4258.6	4585.8	4638.4	4447.4	4060.6	3639.9	3243.9	3069.1	3023.4
12.5°	3698.7	4141.1	4431.9	4504.6	4360.0	3974.0	3522.3	3091.5	2904.3	2861.8
15°	3645.3	4001.9	4179.8	4216.9	4192.9	3919.9	3509.9	3068.3	2854.0	2807.6
17.5°	3698.7	3883.5	3905.9	3943.8	3997.2	3914.5	3629.1	3194.4	2963.1	2905.9
20°	3838.7	3780.6	3687.8	3704.1	3826.3	3936.9	3841.0	3473.6	3192.0	3130.9
22.5°	4076.9	3755.1	3544.7	3530.8	3685.5	4011.9	4151.9	3851.8	3525.4	3465.1
25°	4369.2	3819.3	3492.1	3462.0	3630.6	4121.7	4489.9	4315.1	3958.5	3866.5
27.5°	4687.9	3952.4	3492.1	3462.8	3626.0	4219.2	4779.2	4725.0	4407.1	4306.6
30°	4862.7	4062.2	3542.4	3509.2	3683.2	4275.7	4933.9	5089.3	4744.4	4619.8
32.5°	5019.0	4214.6	3640.7	3578.0	3803.1	4359.2	5072.3	5398.7	5012.8	4929.2
35°	5162.8	4377.8	3776.0	3703.3	3960.9	4473.7	5225.5	5723.6	5386.3	5260.3
37.5°	5321.4	4567.3	3987.2	3925.3	4224.6	4696.4	5407.2	6150.5	5753.7	5595.2
40°	5493.9	4786.9	4334.4	4308.1	4643.8	4948.6	5636.9	6606.1	6172.9	5992.7
42.5°	5669.4	5039.8	4759.8	4803.2	5118.7	5302.0	5872.8	6956.5	6516.4	6317.6
45°	5828.8	5363.1	5312.9	5527.1	5672.5	5647.0	6047.6	7203.2	6815.7	6625.4
47.5°	6029.9	5834.2	5981.9	6312.2	6316.0	6022.1	6179.9	7405.1	7073.2	6883.0
50°	6254.9	6390.3	6845.9	7182.3	7091.8	6391.1	6334.6	7644.1	7339.3	7186.9
52.5°	6515.6	7012.9	7644.1	8017.6	7806.5	6793.3	6592.2	7902.4	7761.6	7615.4
55°	6818.8	7437.5	8439.9	8737.7	8525.0	7292.9	6983.5	8252.8	8238.8	8139.1
57.5°	7161.4	7886.1	8900.9	9303.9	9114.4	7879.2	7530.4	8583.0	8530.4	8474.7
59°	7432.1	8116.6	9104.3	9522.0	9407.5	8289.9	7897.8	8788.8	8597.7	8514.2
60°	7596.1	8272.9	9179.4	9551.4	9525.1	8534.3	8130.6	8889.3	8597.0	8480.9
62.5°	8082.6	8545.9	9150.7	9420.7	9523.6	9003.0	8813.5	8999.9	8437.6	8267.5
65°	8255.9	8455.4	8676.6	8643.4	8731.5	8979.0	9249.7	8878.5	8097.3	7855.2
67.5°	7918.6	7463.1	7541.2	7319.2	7275.9	7982.8	9072.6	8284.5	7431.4	7135.1
70°	6674.9	5717.4	5677.9	5780.0	5500.0	6463.0	8146.8	7140.5	6332.3	5996.6
72.5°	5254.1	4040.5	3707.9	4083.8	4075.3	4930.8	6767.7	5066.9	4278.0	4249.4
75°	4131.8	2813.1	2468.9	2530.0	2647.5	3569.5	5390.2	3217.6	2634.4	2400.8
77.5°	2773.6	1993.2	1859.4	1784.4	1911.2	2291.7	3410.2	1744.9	1477.3	1399.2
80°	1598.7	1447.9	1644.4	1492.8	1560.8	1444.0	1696.2	800.5	664.4	719.3
82.5°	1040.3	824.5	878.6	652.8	892.6	900.3	544.5	236.7	200.3	212.7
85°	650.5	386.7	217.3	154.7	307.8	566.2	170.2	14.7	17.0	14.7
87.5°	168.6	64.2	27.1	40.2	49.5	44.1	39.4	2.3	0.8	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)