

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: P450956

Luminaire Tested: **GALN-SA1D-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5621 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): 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

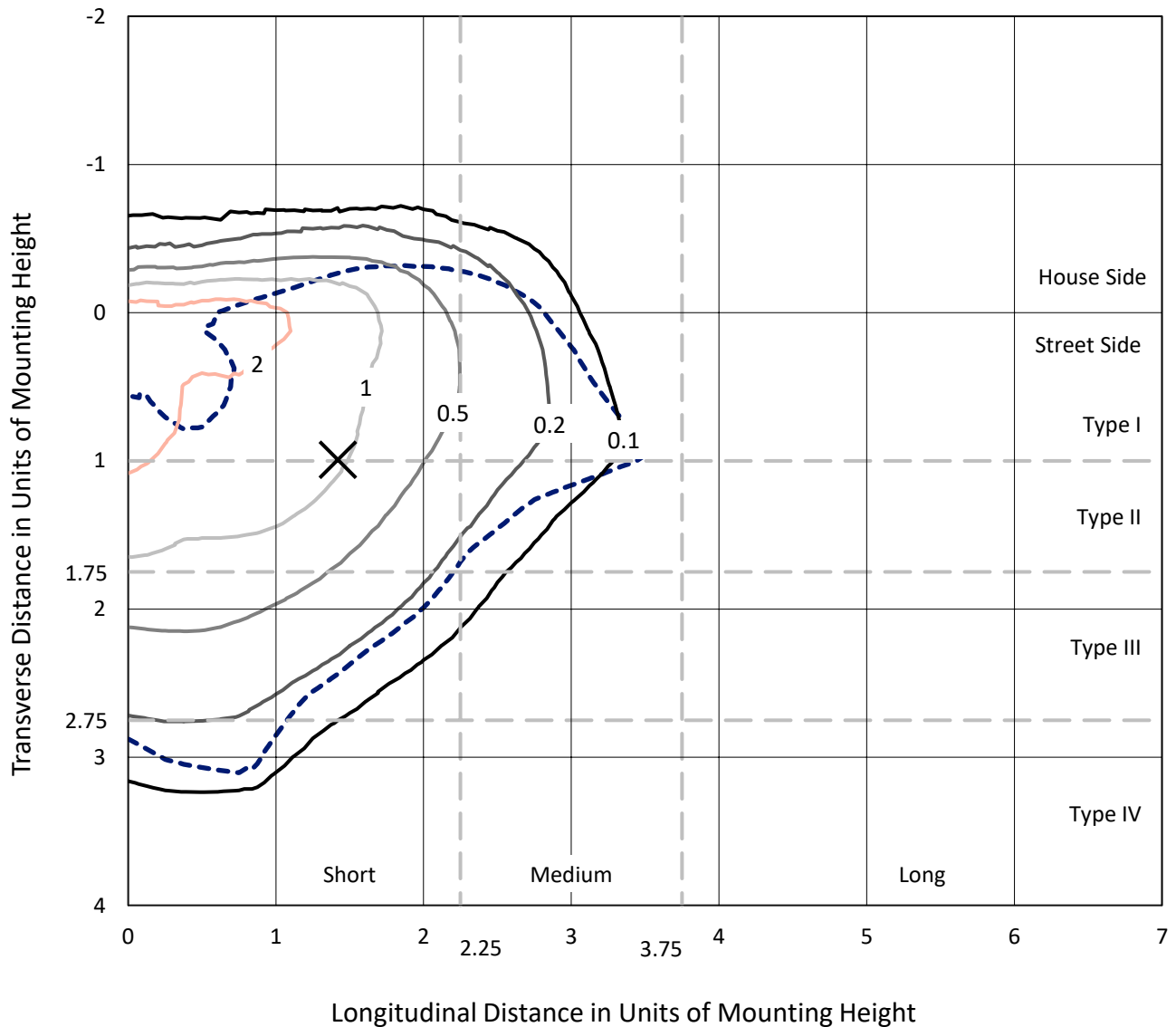




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Iso-Footcandle Lines of Horizontal Illumination

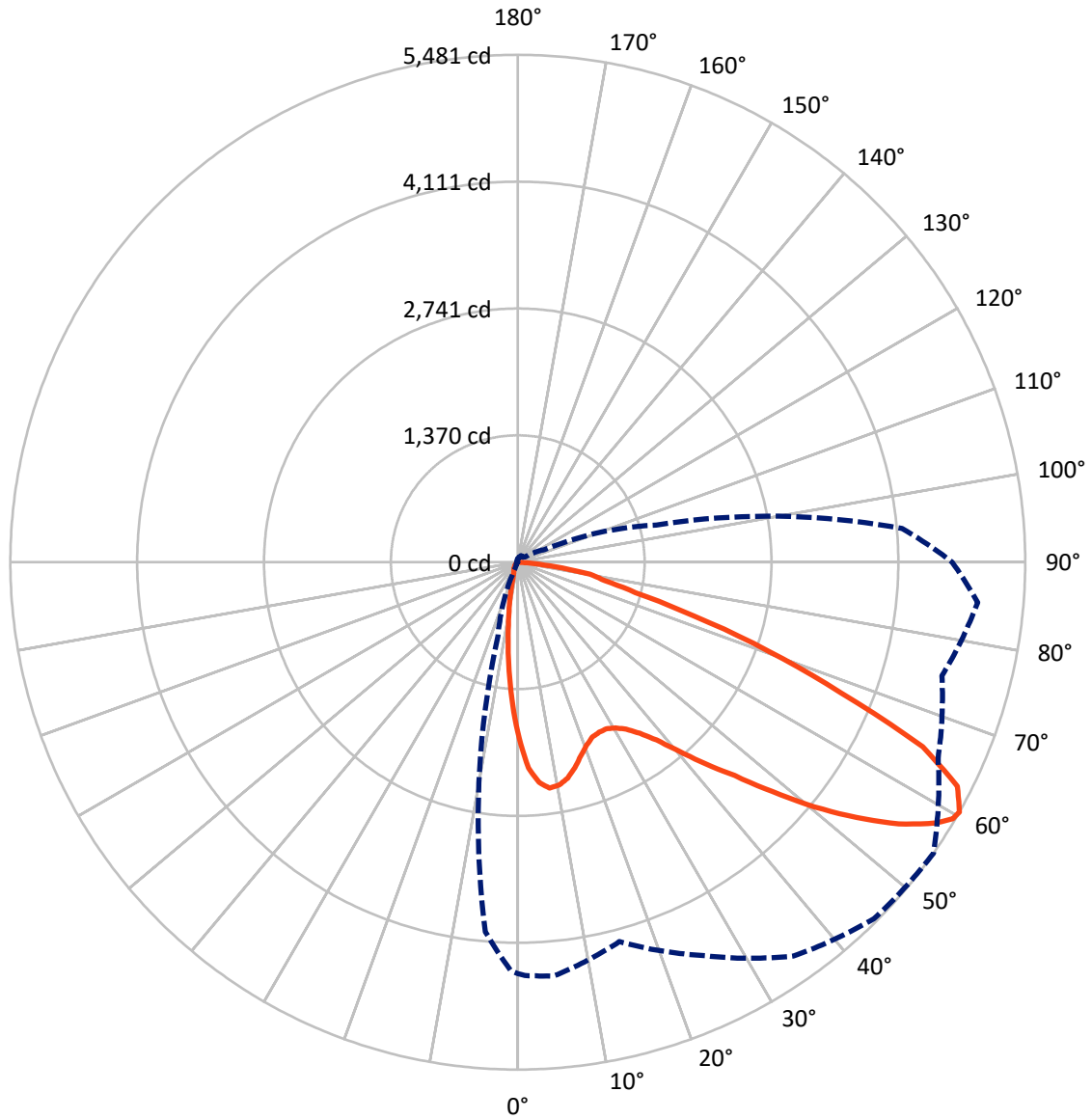
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical



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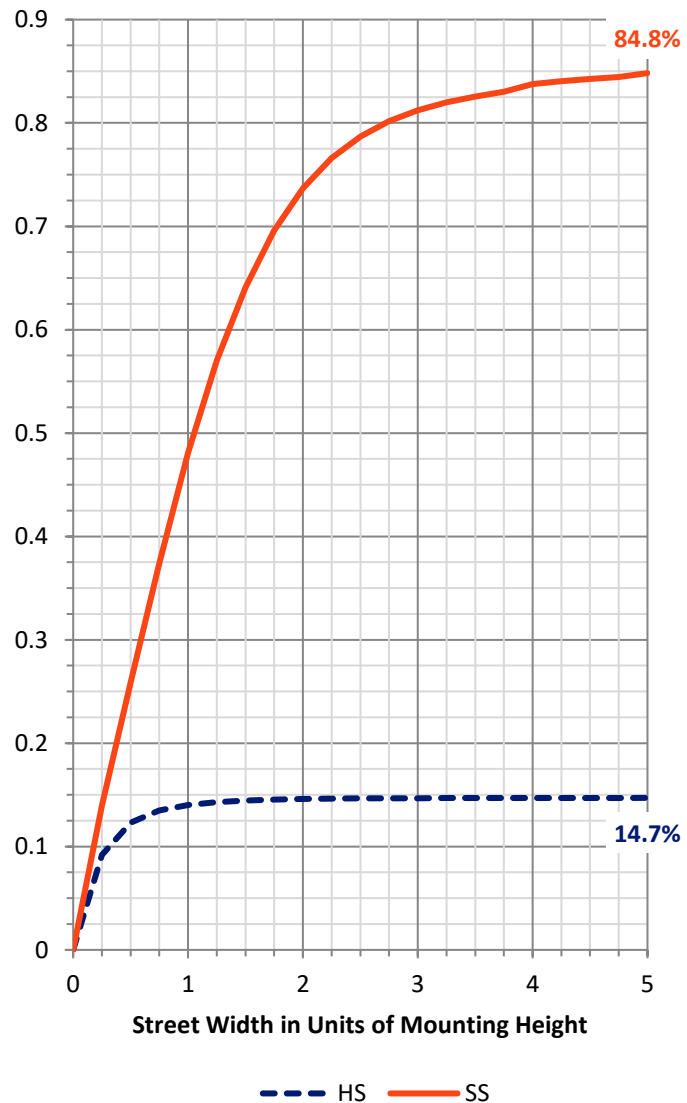
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	834.2	0.0	834.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	4786.8	0.0	4786.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	5621.0	0.0	5621.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	2.5
10°-20°	277.5	4.9
20°-30°	410.8	7.3
30°-40°	612.4	10.9
40°-50°	896.8	16.0
50°-60°	1294.7	23.0
60°-70°	1362.0	24.2
70°-80°	560.3	10.0
80°-90°	65.6	1.2
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°	5621.0	100.0
0°-180°	5621.0	100.0



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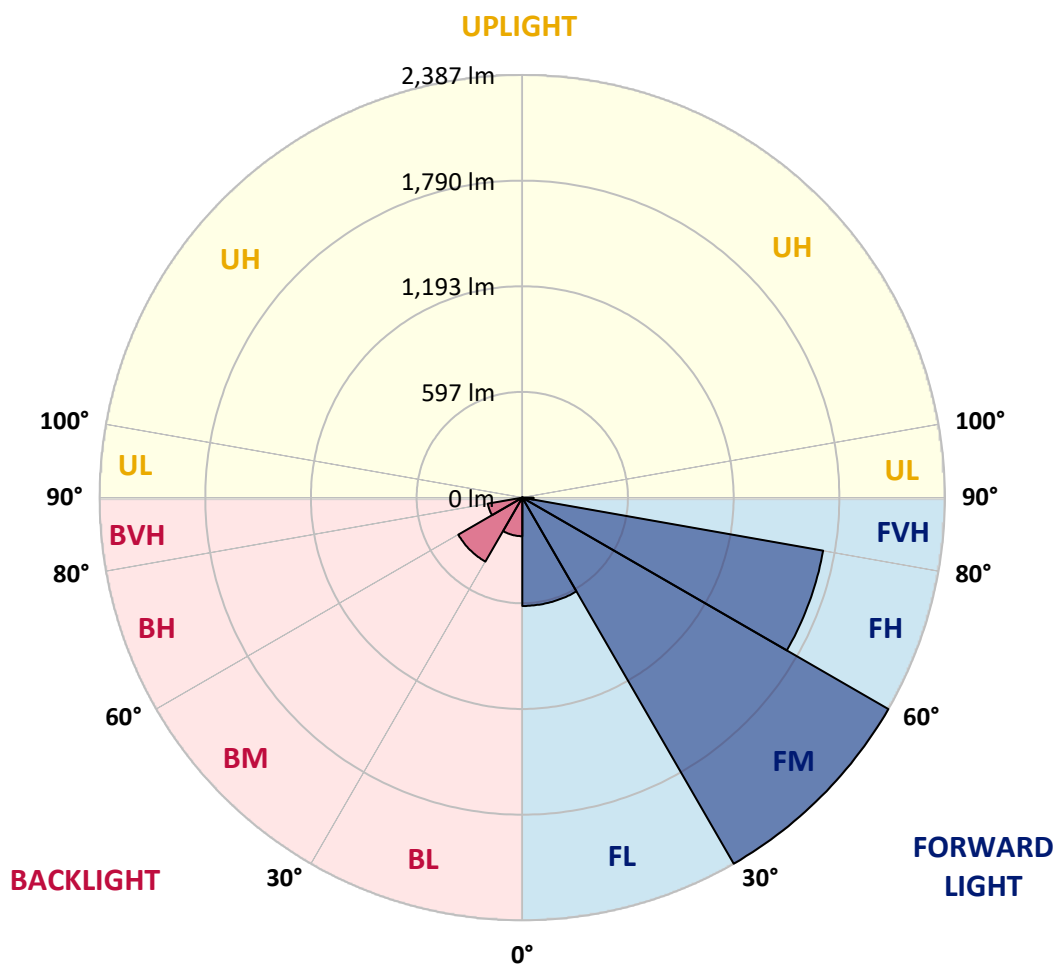
CATALOG NUMBER: GALN-SA1D-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.6	10.9			
FM (30°-60°)	2386.7	42.5			
FH (60°-80°)	1724.8	30.7			G1/1800
FVH (80°-90°)	63.7	1.1			G1/100
BL (0°-30°)	217.6	3.9	B1/500		
BM (30°-60°)	417.2	7.4	B1/1000		
BH (60°-80°)	197.4	3.5	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3
2.5°	2079.3	2075.9	2106.6	2156.8	2207.4	2233.8	2228.6	2226.4	2184.5	2153.8	2089.3
5°	2075.0	2092.8	2147.7	2283.6	2386.5	2436.3	2451.0	2389.1	2307.4	2188.8	2042.6
7.5°	1950.8	1972.9	2062.5	2274.9	2457.9	2566.1	2562.2	2463.1	2294.4	2110.9	1902.4
10°	1796.8	1822.8	1927.9	2185.8	2423.3	2566.1	2573.9	2448.4	2238.6	2003.2	1783.8
12.5°	1688.2	1718.9	1835.3	2102.7	2334.2	2474.8	2483.9	2393.0	2196.6	1961.7	1719.4
15°	1651.4	1680.4	1798.6	2060.7	2239.4	2315.1	2313.0	2303.5	2180.2	1971.6	1722.8
17.5°	1714.6	1738.4	1871.7	2079.8	2150.7	2142.9	2154.2	2200.1	2183.6	2055.1	1831.9
20°	1877.7	1902.0	2045.2	2138.2	2082.8	2033.5	2038.7	2115.3	2215.6	2212.2	2002.3
22.5°	2102.3	2143.4	2273.2	2251.5	2073.7	1965.6	1954.7	2054.3	2270.1	2393.0	2232.5
25°	2386.5	2428.1	2529.3	2432.4	2118.3	1949.5	1939.6	2035.6	2336.3	2569.5	2491.7
27.5°	2625.4	2656.9	2757.8	2608.5	2184.0	1956.5	1940.0	2038.2	2390.0	2719.7	2710.2
30°	2816.6	2840.0	2899.2	2690.7	2240.7	1986.8	1967.7	2076.3	2413.8	2792.8	2887.1
32.5°	2970.6	3010.0	3028.6	2778.5	2322.1	2043.9	2011.4	2149.4	2471.8	2883.2	3072.7
35°	3146.7	3192.1	3168.3	2862.5	2429.4	2133.0	2093.2	2268.0	2559.6	2966.7	3288.2
37.5°	3370.0	3422.3	3329.3	2950.7	2542.7	2267.1	2248.5	2434.6	2692.9	3086.1	3519.2
40°	3601.0	3631.3	3485.5	3058.0	2682.0	2462.2	2480.0	2682.0	2867.2	3229.3	3765.0
42.5°	3781.4	3810.0	3646.0	3148.0	2824.4	2693.7	2767.7	2980.6	3067.1	3376.0	3948.4
45°	3919.4	3943.7	3757.2	3246.2	3016.5	3029.0	3168.8	3288.2	3267.4	3465.6	4089.9
47.5°	4026.7	4047.5	3842.9	3351.8	3304.2	3439.2	3652.9	3703.5	3475.1	3562.5	4218.0
50°	4070.9	4076.9	3869.7	3486.3	3630.9	3961.8	4184.7	4153.9	3713.1	3670.2	4354.3
52.5°	4128.4	4127.1	3946.3	3614.4	3938.0	4429.1	4651.5	4581.8	3982.2	3831.6	4507.4
55°	4279.4	4281.1	4110.2	3796.1	4199.8	4806.4	5044.3	4993.7	4266.0	4104.2	4686.1
57.5°	4462.8	4469.3	4343.4	4008.6	4449.9	5079.8	5337.7	5318.2	4649.8	4407.5	4854.8
59°	4486.6	4499.6	4453.8	4158.3	4598.3	5163.8	5438.1	5457.1	4855.3	4607.4	4946.1
60°	4443.4	4465.0	4485.8	4243.1	4685.2	5194.0	5444.1	5481.3	5009.7	4743.2	4987.7
62.5°	4254.7	4288.9	4393.2	4504.0	4793.8	5099.7	5250.7	5328.6	5201.0	5100.2	4991.6
65°	4007.7	4025.4	4176.0	4550.2	4583.1	4659.3	4706.0	4805.9	4971.2	5237.7	4812.9
67.5°	3602.7	3655.1	3839.4	4281.6	3961.4	3871.4	3859.7	3760.2	4189.4	4909.8	4372.4
70°	2976.2	2999.6	3226.8	3510.1	2989.7	2851.2	2906.6	2869.4	3247.5	4226.6	3519.2
72.5°	2250.7	2303.5	2525.4	2798.0	2034.3	1854.8	2007.5	1993.7	2439.3	3396.8	2417.7
75°	1601.3	1635.4	1918.4	2189.7	1424.7	1207.1	1262.1	1313.5	1702.9	2682.0	1428.6
77.5°	1100.2	1129.7	1342.1	1448.1	1039.2	995.5	910.7	960.5	1115.8	1591.3	777.5
80°	663.7	662.4	802.1	828.1	723.8	840.7	705.2	791.8	674.5	681.0	301.1
82.5°	430.9	426.6	490.6	534.8	402.8	423.6	284.3	409.7	439.6	189.9	95.2
85°	193.0	201.2	235.8	311.1	176.5	93.9	58.0	125.9	187.3	95.6	0.0
87.5°	19.9	15.6	41.5	75.7	24.2	2.6	8.7	4.3	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°	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3
2.5°	2059.4	2034.3	1959.5	1889.4	1829.3	1755.7	1708.1	1633.3	1587.8	1574.0	1576.2
5°	1976.8	1904.6	1762.2	1648.4	1521.7	1449.4	1339.5	1233.9	1176.8	1155.6	1146.1
7.5°	1803.7	1726.3	1554.5	1375.8	1240.0	1113.2	1031.5	938.4	874.8	822.5	813.4
10°	1675.2	1573.6	1360.7	1168.6	1061.3	966.1	884.3	791.3	716.5	656.8	640.3
12.5°	1598.2	1484.4	1246.9	1086.0	984.3	886.5	780.1	672.3	595.8	531.3	501.4
15°	1584.4	1452.4	1214.9	1026.7	901.2	783.1	641.6	525.2	446.5	385.5	366.9
17.5°	1667.9	1510.0	1210.1	964.8	792.6	625.2	478.1	381.6	292.9	258.7	245.3
20°	1816.7	1611.6	1209.7	893.0	681.0	481.5	335.7	248.8	212.9	196.4	188.6
22.5°	2019.6	1750.1	1232.6	831.1	565.0	355.2	239.7	198.2	177.4	164.0	160.9
25°	2267.6	1955.2	1288.9	789.2	476.4	278.6	197.7	169.6	152.3	146.2	143.6
27.5°	2487.8	2151.6	1350.8	745.9	412.8	246.6	183.4	155.3	141.5	136.7	132.8
30°	2677.7	2329.9	1380.6	688.8	361.7	225.8	186.0	166.1	148.0	133.7	127.2
32.5°	2836.1	2466.6	1400.1	636.9	318.4	184.7	147.1	128.5	120.3	115.1	110.8
35°	3034.2	2614.5	1388.4	607.4	296.4	168.3	134.1	110.8	96.9	86.5	82.2
37.5°	3241.9	2762.5	1368.1	583.2	286.4	156.2	127.6	105.1	90.0	79.2	73.6
40°	3456.9	2899.7	1344.3	560.7	277.3	148.4	123.7	100.4	85.2	73.6	67.5
42.5°	3653.8	3033.4	1334.7	546.0	262.6	149.7	120.7	98.2	80.5	68.4	63.2
45°	3813.0	3160.1	1347.7	538.2	246.6	147.5	121.6	95.6	76.6	64.9	59.7
47.5°	3983.0	3339.2	1389.7	530.4	231.0	137.2	128.1	95.2	74.8	62.7	57.1
50°	4180.8	3568.5	1485.7	511.4	212.0	125.9	136.3	94.8	72.7	60.1	54.5
52.5°	4444.2	3829.0	1584.8	478.1	184.3	115.1	130.2	93.5	68.4	57.1	51.5
55°	4680.9	4103.3	1668.8	438.7	149.3	99.5	117.2	87.8	61.0	51.9	46.7
57.5°	4778.7	4258.2	1666.2	384.2	119.4	87.4	96.5	80.5	53.2	45.9	41.5
59°	4742.8	4238.7	1610.3	344.0	109.0	80.9	80.0	79.6	49.8	41.5	38.1
60°	4692.2	4167.8	1550.2	324.1	102.5	76.6	73.6	78.7	46.7	38.9	35.5
62.5°	4498.3	3873.6	1350.8	290.3	93.9	64.9	58.8	66.6	41.5	33.7	30.7
65°	4217.5	3421.4	1143.5	280.8	91.3	53.6	48.9	47.6	35.5	28.6	26.0
67.5°	3669.8	2895.3	926.3	274.3	92.2	45.0	42.8	35.9	29.4	23.8	22.1
70°	2938.2	2257.6	758.4	266.9	93.0	36.8	35.9	28.6	23.8	19.9	18.2
72.5°	1785.1	1338.2	597.1	231.9	90.4	29.4	32.0	21.6	17.3	14.3	13.4
75°	1103.7	915.9	370.4	180.4	59.7	21.6	22.5	13.4	11.7	9.1	9.1
77.5°	639.5	578.5	132.4	64.9	26.4	13.0	10.0	6.9	6.5	3.9	3.9
80°	265.2	212.4	45.9	22.1	14.3	6.1	2.2	0.4	0.0	0.0	0.0
82.5°	77.4	68.8	12.5	10.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3
2.5°	1539.4	1525.1	1518.6	1540.7	1520.4	1546.3	1526.4	1535.1	1560.6	1571.8	1600.8
5°	1152.2	1137.5	1130.5	1163.8	1162.1	1178.6	1176.8	1192.0	1204.9	1176.0	1205.8
7.5°	802.6	792.6	809.1	835.0	862.7	853.6	853.6	833.3	840.2	835.9	834.6
10°	610.5	576.3	567.6	566.8	577.2	579.3	567.6	539.5	549.9	552.9	571.1
12.5°	480.2	453.9	413.6	395.4	390.7	394.6	356.1	331.4	343.1	336.2	353.9
15°	344.4	322.8	299.0	278.6	273.0	265.2	223.3	193.8	190.4	191.7	194.7
17.5°	245.7	231.0	231.0	209.4	197.7	174.4	153.2	140.2	138.9	140.2	142.3
20°	181.3	173.5	172.6	167.0	154.0	138.5	123.7	121.1	120.3	122.4	123.3
22.5°	156.2	148.0	141.0	140.6	128.5	115.5	108.6	105.1	105.6	106.4	108.6
25°	139.7	131.1	123.7	119.4	110.8	101.7	95.2	93.5	93.5	94.8	95.2
27.5°	128.1	117.2	110.8	104.7	96.9	89.1	83.5	82.2	81.3	82.2	84.4
30°	119.8	109.0	100.8	91.7	85.7	78.3	73.6	71.8	71.4	71.8	73.6
32.5°	102.5	96.0	89.6	81.3	74.0	69.2	64.0	61.0	61.0	61.9	63.6
35°	77.4	74.0	73.6	71.4	65.3	60.1	54.1	51.1	51.1	52.8	53.6
37.5°	68.4	61.9	61.0	60.1	57.5	50.6	45.0	42.4	42.0	43.3	45.0
40°	62.3	54.9	51.1	50.2	50.6	42.8	36.8	34.2	34.2	34.6	36.3
42.5°	57.5	48.9	42.0	41.1	42.8	35.9	29.9	27.3	27.3	27.3	29.4
45°	53.6	43.7	35.5	31.2	33.7	29.4	24.2	21.6	20.8	21.6	22.5
47.5°	51.1	39.8	31.2	25.1	25.1	23.4	19.5	16.4	15.6	16.0	17.3
50°	48.9	36.3	26.4	20.3	18.2	18.6	14.7	12.5	11.7	11.7	13.0
52.5°	45.4	32.9	22.9	17.3	13.8	12.5	10.8	9.1	8.7	9.1	10.0
55°	41.1	29.9	19.9	14.3	10.8	8.7	7.8	6.5	6.1	6.5	7.8
57.5°	36.3	25.1	16.0	11.2	7.4	5.6	5.2	4.3	3.5	3.9	4.8
59°	33.3	22.5	13.8	9.1	5.6	3.9	3.9	3.0	2.2	2.6	3.9
60°	32.0	20.8	11.7	7.8	4.8	3.0	3.0	2.2	1.3	1.7	3.0
62.5°	27.3	17.3	9.1	4.8	2.2	0.4	1.3	0.4	0.0	0.4	1.3
65°	22.9	13.8	6.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4
67.5°	19.0	10.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	15.1	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P450956
 CATALOG NUMBER: GALN-SA1D-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3	1903.3
2.5°	1602.6	1664.4	1702.5	1774.3	1847.9	1904.6	1975.5	2039.1	2065.5	2079.3
5°	1236.1	1322.2	1395.3	1504.8	1606.5	1730.2	1855.7	2003.6	2060.3	2075.0
7.5°	867.5	955.3	1031.9	1158.7	1303.6	1469.3	1657.1	1844.8	1927.5	1950.8
10°	626.5	720.4	813.8	940.6	1076.0	1255.6	1451.1	1683.5	1778.7	1796.8
12.5°	395.4	496.3	648.1	804.7	947.9	1092.5	1297.1	1549.8	1654.9	1688.2
15°	229.3	304.6	419.2	623.5	805.6	996.8	1220.1	1499.6	1617.3	1651.4
17.5°	153.6	179.6	258.3	414.5	655.0	908.6	1200.6	1540.7	1670.9	1714.6
20°	129.4	141.0	168.7	252.7	504.5	829.8	1205.8	1652.3	1823.2	1877.7
22.5°	113.8	124.6	142.3	181.7	352.2	732.1	1230.5	1812.0	2032.6	2102.3
25°	100.4	111.2	126.8	150.6	236.7	619.1	1284.6	2045.6	2310.0	2386.5
27.5°	89.1	99.1	112.5	132.8	182.1	493.2	1332.6	2273.2	2563.1	2625.4
30°	78.7	87.0	99.9	115.5	151.4	380.3	1356.8	2472.2	2747.4	2816.6
32.5°	68.4	76.1	88.7	101.2	124.6	289.9	1339.9	2618.4	2926.5	2970.6
35°	58.4	66.6	77.0	88.7	107.7	234.1	1255.6	2782.8	3112.1	3146.7
37.5°	50.2	57.1	67.9	77.0	97.3	187.3	1153.5	2930.8	3320.2	3370.0
40°	42.4	49.3	60.1	68.4	89.6	147.5	1061.3	3095.2	3539.6	3601.0
42.5°	34.6	42.8	52.4	65.8	77.0	112.5	949.7	3228.5	3704.4	3781.4
45°	27.7	36.8	47.2	65.3	67.1	85.7	841.9	3332.3	3850.2	3919.4
47.5°	22.1	31.2	45.4	61.0	54.9	67.9	780.5	3440.9	3971.4	4026.7
50°	17.7	26.0	47.6	53.6	45.9	57.5	778.8	3562.1	4034.1	4070.9
52.5°	14.3	21.2	40.2	41.1	38.9	50.6	825.5	3698.3	4098.1	4128.4
55°	12.1	17.7	26.4	30.3	35.0	45.9	860.6	3908.2	4250.8	4279.4
57.5°	9.5	15.1	20.3	24.2	31.2	42.0	865.3	4070.0	4444.2	4462.8
59°	8.2	13.0	18.2	21.6	28.6	39.4	845.8	4079.9	4456.8	4486.6
60°	6.9	11.7	16.0	20.3	26.4	37.2	824.6	4007.7	4410.1	4443.4
62.5°	5.2	9.1	11.7	16.4	21.6	32.0	724.3	3755.5	4231.4	4254.7
65°	3.5	6.5	8.7	12.1	16.9	27.7	590.1	3428.4	3955.3	4007.7
67.5°	2.2	4.8	6.9	9.1	13.8	23.4	420.5	2939.9	3569.0	3602.7
70°	1.3	3.0	5.2	7.4	10.8	18.6	249.6	2323.8	2969.3	2976.2
72.5°	0.9	2.2	3.5	5.2	8.7	16.9	121.1	1514.7	2168.0	2250.7
75°	0.4	1.3	2.2	3.9	6.9	13.8	58.0	1012.0	1577.5	1601.3
77.5°	0.0	0.4	1.3	2.6	5.2	10.8	33.7	664.6	1075.6	1100.2
80°	0.0	0.0	0.9	2.2	3.9	6.9	20.3	392.0	651.6	663.7
82.5°	0.0	0.0	0.4	1.7	2.6	5.2	10.4	172.2	426.6	430.9
85°	0.0	0.0	0.4	1.7	2.2	3.5	3.9	23.4	189.5	193.0
87.5°	0.0	0.0	0.4	2.2	2.2	2.2	2.2	1.3	16.0	19.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)