

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: P450726

Luminaire Tested: **GALN-SA1C-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450726
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-SA1C-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5109 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

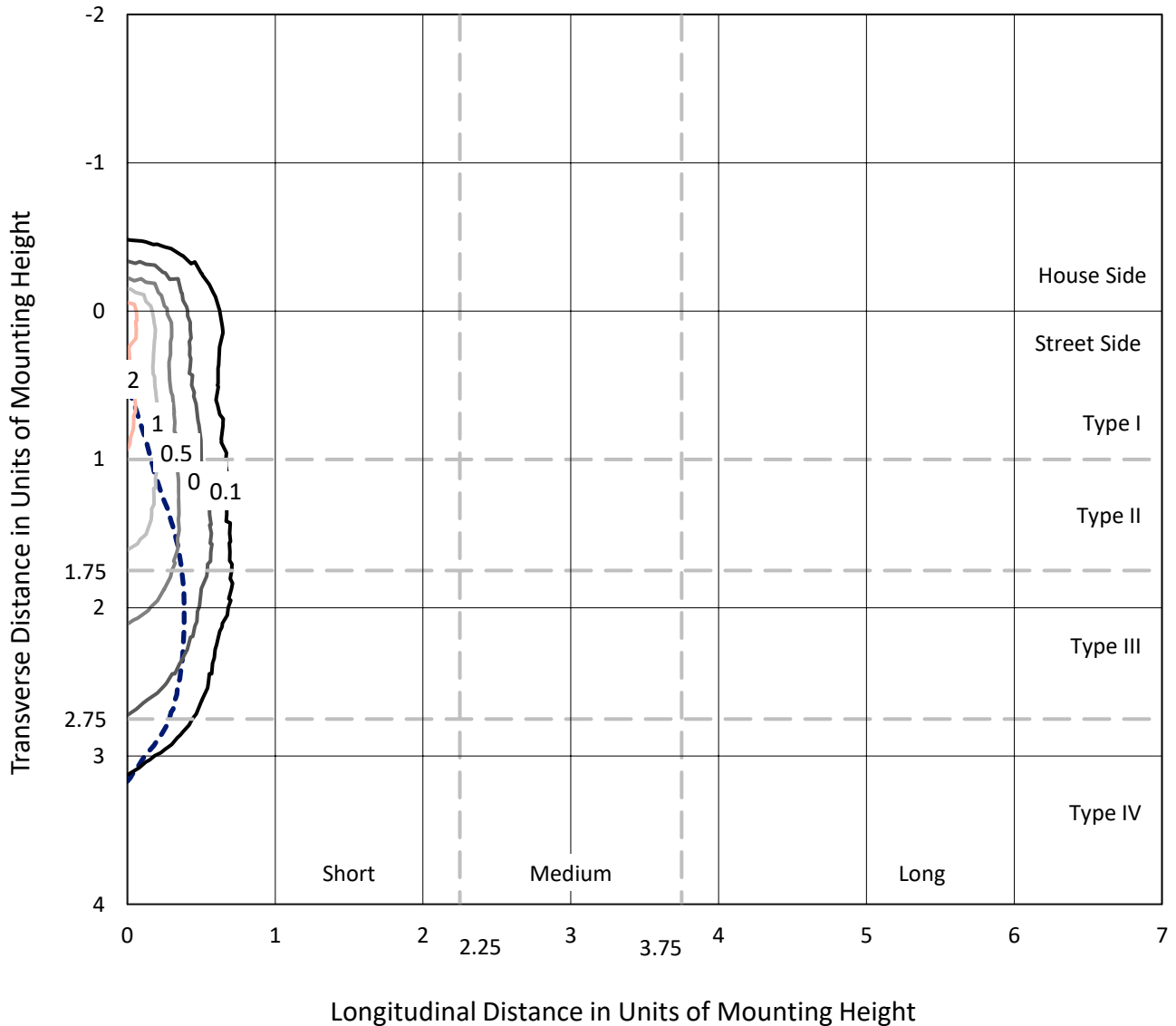
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

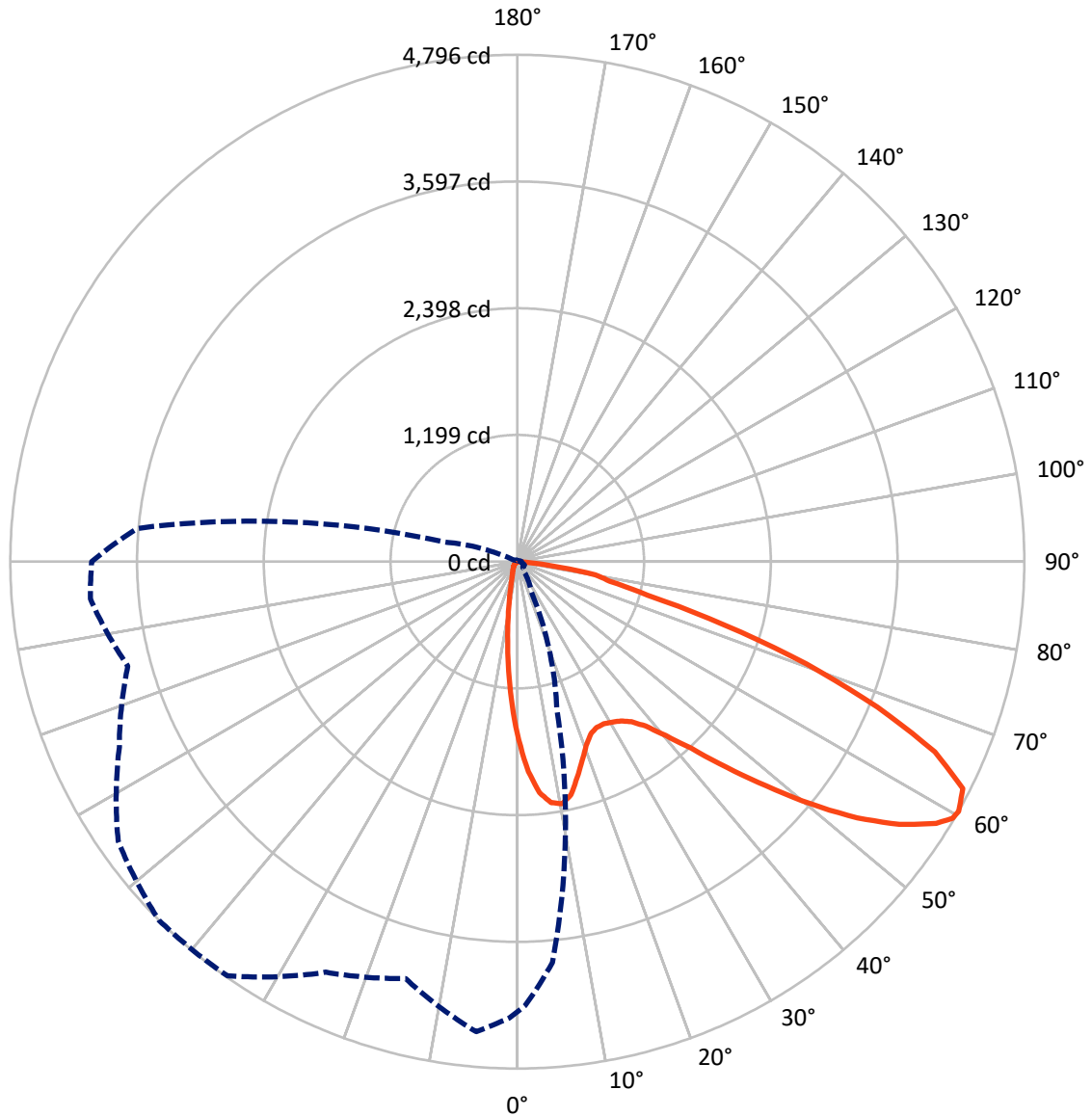
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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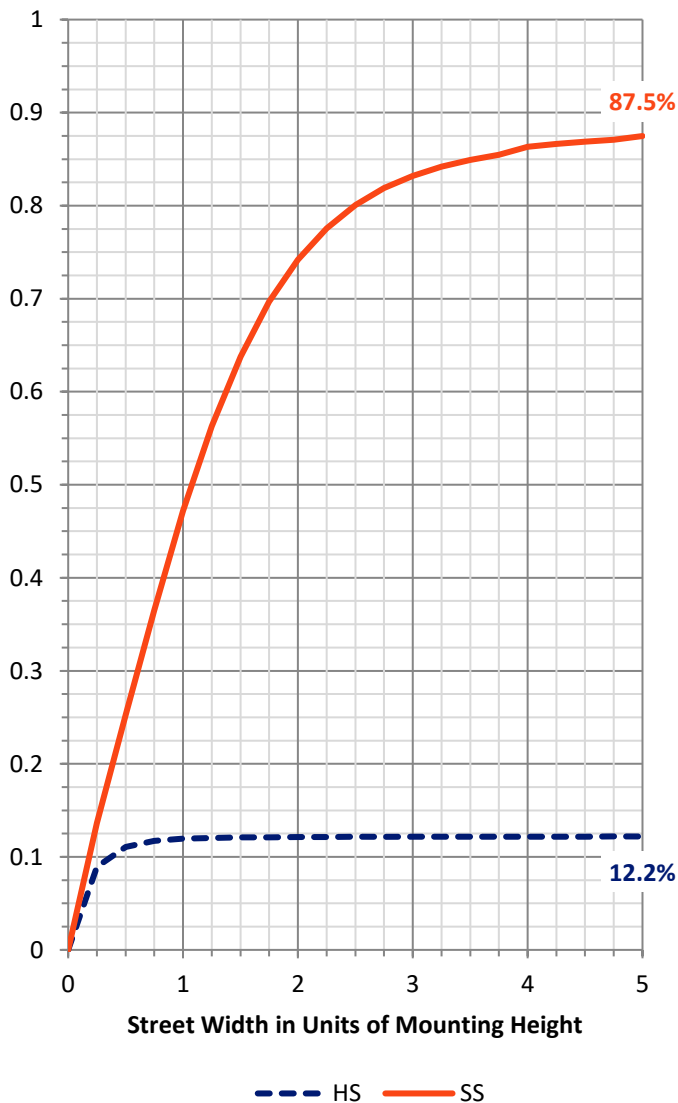
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	630.1	0.0	630.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	4478.9	0.0	4478.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	5109.0	0.0	5109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	2.5
10°-20°	249.4	4.9
20°-30°	365.7	7.2
30°-40°	543.9	10.6
40°-50°	791.5	15.5
50°-60°	1141.5	22.3
60°-70°	1255.5	24.6
70°-80°	562.4	11.0
80°-90°	73.5	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°	5109.0	100.0
0°-180°	5109.0	100.0

Coefficient of Utilization



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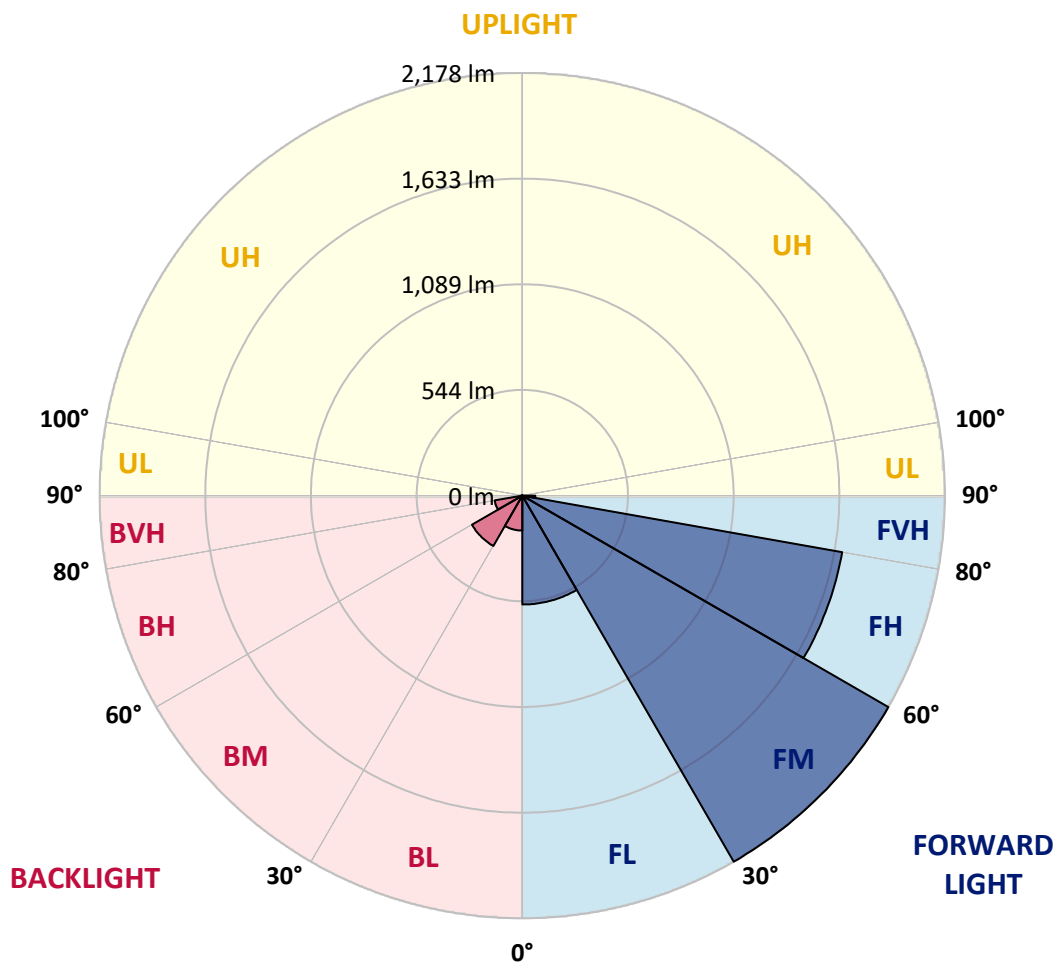
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	560.7	11.0			
FM (30°-60°)	2177.6	42.6			
FH (60°-80°)	1673.3	32.8			G1/1800
FVH (80°-90°)	67.2	1.3			G1/100
BL (0°-30°)	180.1	3.5	B1/500		
BM (30°-60°)	299.3	5.9	B1/1000		
BH (60°-80°)	144.5	2.8	B1/500		G1/500
BVH (80°-90°)	6.3	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6
2.5°	1856.4	1848.2	1829.6	1772.9	1723.6	1659.1	1593.8	1542.6	1511.1	1453.3	1426.8
5°	1798.5	1802.4	1748.4	1631.9	1502.2	1413.6	1316.9	1240.0	1155.4	1101.8	1045.5
7.5°	1647.4	1639.7	1581.0	1418.7	1261.0	1132.9	1010.5	911.1	848.6	798.5	756.5
10°	1518.1	1512.3	1437.3	1228.4	1059.1	963.1	880.4	793.4	726.2	652.8	594.2
12.5°	1436.9	1423.7	1337.5	1119.3	981.4	892.1	802.0	711.5	618.7	544.5	473.4
15°	1409.8	1390.7	1294.8	1081.6	931.7	818.3	705.3	601.2	494.4	412.4	358.8
17.5°	1459.1	1427.6	1325.5	1075.0	872.3	722.0	582.9	447.4	336.3	273.8	240.8
20°	1572.1	1536.0	1403.2	1068.4	806.2	614.0	443.1	316.1	232.6	198.5	180.2
22.5°	1739.9	1690.2	1518.1	1078.9	745.3	508.8	320.0	223.3	184.9	163.5	150.7
25°	1941.4	1899.9	1663.7	1116.2	697.1	426.0	247.4	182.5	155.7	142.5	132.8
27.5°	2162.4	2096.0	1852.1	1160.8	653.2	362.0	217.1	163.1	138.6	126.6	121.6
30°	2319.7	2268.0	2009.8	1191.9	598.5	313.8	198.5	160.8	139.0	124.7	115.3
32.5°	2475.0	2409.0	2141.8	1206.3	558.5	280.4	171.7	140.2	121.9	114.6	105.2
35°	2641.2	2572.1	2273.5	1198.5	528.6	258.3	155.7	125.1	104.5	92.0	82.7
37.5°	2809.4	2736.4	2404.3	1170.5	509.9	249.3	143.3	118.8	98.6	85.8	75.7
40°	3009.0	2911.5	2527.1	1147.6	490.5	244.7	135.1	115.0	94.4	80.8	70.7
42.5°	3172.1	3079.3	2643.2	1135.6	477.3	233.8	135.1	111.8	91.7	76.5	66.0
45°	3326.7	3230.4	2768.6	1145.3	471.9	220.2	136.7	111.5	89.7	73.4	62.9
47.5°	3456.0	3372.5	2897.6	1181.8	464.9	205.4	128.5	116.9	88.5	70.7	59.8
50°	3608.7	3527.9	3068.1	1255.6	452.4	190.7	118.5	125.8	88.2	68.4	57.1
52.5°	3823.8	3736.4	3303.4	1339.5	432.6	168.2	109.1	124.7	86.6	64.5	54.4
55°	4086.7	4016.1	3576.0	1440.0	405.4	142.9	94.4	110.7	81.9	57.9	49.7
57.5°	4255.3	4195.1	3780.3	1483.5	363.9	116.9	83.1	92.8	75.0	51.7	44.3
59°	4275.1	4220.7	3823.0	1469.2	336.7	106.8	77.7	79.6	73.0	48.2	41.2
60°	4258.4	4202.1	3805.9	1441.2	311.5	99.8	73.0	70.7	73.4	46.2	38.8
62.5°	4151.2	4054.9	3640.1	1299.5	272.2	91.7	64.9	57.9	64.9	41.6	34.6
65°	3944.2	3799.7	3312.0	1099.8	256.7	87.0	55.1	48.5	49.3	36.5	29.9
67.5°	3582.6	3400.5	2875.0	893.6	250.1	87.4	46.6	43.5	38.1	31.1	26.4
70°	3011.0	2829.2	2306.9	735.2	247.0	87.4	39.6	37.3	31.8	26.0	22.9
72.5°	2133.7	1937.9	1556.2	577.5	222.5	87.0	33.8	33.8	26.0	21.7	18.6
75°	1205.5	1207.0	978.3	408.6	184.9	71.8	27.2	26.8	19.0	16.7	14.0
77.5°	702.5	690.1	659.4	175.5	85.8	32.6	19.0	16.3	13.2	12.0	10.1
80°	361.2	297.1	289.3	63.7	30.7	20.6	13.2	9.3	8.5	7.8	7.0
82.5°	106.8	107.2	95.5	25.6	17.1	13.6	6.6	5.0	4.7	4.3	4.3
85°	7.4	4.7	5.4	7.8	10.5	5.4	0.4	1.2	1.2	1.6	1.9
87.5°	0.8	0.4	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°	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6
2.5°	1397.7	1414.8	1383.0	1383.7	1357.3	1365.9	1334.8	1344.9	1326.6	1340.6	1381.8
5°	1051.7	1055.6	1029.9	1021.8	1025.7	1041.6	1047.8	1019.4	1031.5	1007.8	1006.2
7.5°	741.0	745.7	730.9	729.0	756.9	750.3	762.4	733.2	705.7	717.7	695.6
10°	575.6	556.1	525.8	517.3	511.9	515.4	515.4	488.9	485.1	474.6	490.5
12.5°	454.4	430.7	402.0	363.1	353.4	352.6	338.3	315.0	307.6	298.7	311.9
15°	330.1	320.4	296.3	274.6	252.4	248.2	224.9	205.8	180.6	177.1	175.9
17.5°	232.2	217.9	217.5	205.1	192.2	183.7	161.9	140.2	130.5	129.3	129.3
20°	174.0	168.9	160.8	159.2	155.3	145.6	126.2	114.6	109.9	110.3	111.8
22.5°	146.4	142.9	135.5	132.0	130.5	121.9	107.6	99.8	97.5	97.5	97.9
25°	130.9	127.8	119.6	114.2	112.2	106.0	94.8	88.9	87.0	87.0	87.0
27.5°	119.2	115.3	106.8	102.1	98.6	91.7	84.7	78.8	76.9	76.9	77.3
30°	111.1	106.8	99.0	92.8	87.4	81.2	75.3	70.3	68.0	67.6	68.0
32.5°	100.2	96.3	88.5	84.7	78.4	71.1	66.4	61.7	59.4	59.8	59.4
35°	78.1	76.9	71.5	72.6	69.1	62.9	58.6	53.6	50.9	50.5	51.3
37.5°	71.1	66.4	60.2	60.6	59.4	57.1	50.1	44.7	42.7	42.7	43.1
40°	65.6	61.0	54.0	50.5	50.9	50.9	43.5	37.7	35.7	35.3	36.1
42.5°	61.0	56.3	48.5	42.7	41.2	43.1	36.9	31.1	29.1	28.4	29.1
45°	57.9	52.8	43.9	37.3	32.6	35.0	30.3	25.6	23.3	23.3	22.9
47.5°	54.8	50.1	40.4	32.2	27.2	26.0	24.9	20.6	18.3	17.9	18.3
50°	52.0	47.4	36.5	28.0	22.9	20.2	20.2	16.3	14.8	14.0	14.4
52.5°	49.3	44.3	33.0	24.9	19.8	16.3	14.4	13.2	12.0	11.7	12.0
55°	45.4	40.4	29.5	21.4	17.1	13.6	11.3	10.9	10.1	9.3	10.1
57.5°	40.8	36.1	26.0	18.3	13.6	10.5	9.3	8.9	8.2	7.8	7.8
59°	38.1	33.8	24.1	15.9	12.0	9.3	8.5	8.2	7.4	6.6	7.0
60°	36.5	33.0	22.9	14.8	10.9	8.5	7.8	7.4	6.6	6.2	6.6
62.5°	32.2	29.5	20.2	12.0	8.5	6.2	5.4	5.8	5.4	5.0	5.4
65°	28.4	26.0	17.1	9.3	6.6	4.3	3.9	5.0	4.7	4.3	4.7
67.5°	25.2	22.5	14.4	7.0	4.7	2.3	2.7	4.3	4.3	3.9	4.3
70°	21.7	19.4	11.7	5.0	2.3	1.2	1.9	3.1	3.9	3.5	3.9
72.5°	17.9	15.1	8.9	3.5	1.2	0.0	1.2	2.7	3.9	3.5	3.9
75°	14.0	11.3	6.6	1.9	0.0	0.0	0.4	2.3	3.9	3.5	3.9
77.5°	10.1	8.2	3.9	0.4	0.0	0.0	0.4	2.3	3.9	3.5	3.9
80°	6.6	5.8	1.6	0.0	0.0	0.0	0.4	2.3	3.9	3.9	4.3
82.5°	4.3	3.1	0.0	0.0	0.0	0.0	0.8	3.1	4.3	4.7	4.7
85°	1.9	0.0	0.0	0.0	0.0	0.0	1.6	3.9	5.0	5.0	5.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.7	4.7	5.8	5.8	5.8
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°	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6
2.5°	1388.8	1413.2	1447.8	1501.0	1544.1	1612.1	1664.1	1735.2	1807.0	1828.8	1862.6
5°	1022.2	1053.6	1132.1	1203.5	1248.6	1392.3	1483.2	1626.5	1755.0	1816.8	1883.9
7.5°	709.9	747.2	807.0	906.8	1001.6	1118.5	1265.3	1429.2	1617.5	1705.7	1800.4
10°	498.3	544.9	629.1	711.1	830.3	941.4	1086.2	1267.2	1475.0	1579.1	1697.9
12.5°	314.6	356.1	467.6	559.6	708.4	837.3	970.9	1134.8	1375.6	1482.4	1607.0
15°	179.8	214.8	266.8	384.9	549.9	720.4	887.0	1077.3	1324.7	1456.4	1591.1
17.5°	134.0	143.3	166.6	233.4	383.7	582.9	809.7	1059.8	1359.3	1513.8	1667.6
20°	112.6	118.8	129.7	156.1	244.7	448.9	734.4	1062.9	1471.1	1665.3	1811.3
22.5°	101.0	104.9	113.8	130.9	167.0	327.0	646.2	1081.2	1606.7	1851.3	2019.9
25°	88.5	93.6	101.4	116.1	139.0	226.8	559.2	1122.0	1796.6	2087.4	2245.9
27.5°	78.8	83.5	91.3	104.9	121.9	173.2	457.9	1156.9	1997.0	2325.1	2454.8
30°	69.1	73.8	81.6	92.4	108.0	140.2	348.7	1177.5	2191.5	2503.4	2603.2
32.5°	61.0	64.9	72.2	81.9	94.8	118.8	275.0	1156.2	2340.3	2665.3	2732.1
35°	52.8	57.5	63.7	72.6	83.9	101.4	228.7	1082.4	2468.0	2831.9	2856.0
37.5°	44.3	49.7	56.3	64.5	73.4	93.2	183.7	1000.8	2604.7	3039.7	3000.1
40°	37.3	42.3	48.5	57.5	65.6	85.4	141.4	913.8	2752.3	3234.7	3157.4
42.5°	30.3	35.7	43.1	51.3	64.9	74.6	109.5	823.7	2884.8	3404.4	3299.5
45°	24.1	28.7	36.5	47.0	64.5	64.1	84.7	734.8	2984.6	3525.5	3405.5
47.5°	19.0	22.9	30.7	45.8	59.4	54.4	68.0	679.6	3089.4	3634.7	3486.7
50°	15.1	19.0	26.4	47.8	52.0	46.6	57.1	688.6	3190.8	3690.2	3520.1
52.5°	12.8	16.7	22.9	37.7	40.0	40.8	50.1	729.7	3321.7	3749.6	3586.5
55°	11.3	14.8	19.4	26.4	31.1	36.5	45.8	759.6	3496.8	3877.0	3732.9
57.5°	8.9	12.8	17.5	22.5	25.6	31.8	42.3	762.0	3655.3	4040.5	3927.5
59°	8.2	11.7	16.3	21.4	22.9	28.7	40.0	742.2	3661.1	4065.0	4016.8
60°	7.4	11.3	15.5	19.8	21.7	27.2	38.1	719.2	3608.3	4026.1	4053.7
62.5°	6.2	9.7	13.6	15.9	18.6	22.5	33.0	636.1	3352.3	3850.2	3985.4
65°	5.4	8.5	11.7	13.2	15.5	19.4	29.1	509.1	3069.6	3611.8	3789.6
67.5°	5.0	7.8	10.1	11.3	13.6	17.9	26.0	359.6	2703.4	3309.2	3495.6
70°	4.7	7.4	8.9	10.5	12.0	15.1	22.1	209.7	2082.4	2778.7	2975.6
72.5°	4.7	7.0	7.8	8.9	10.5	13.6	20.6	113.4	1423.7	2119.7	2374.1
75°	4.7	6.6	7.0	7.8	9.3	12.4	18.3	59.4	920.4	1472.7	1817.5
77.5°	4.7	6.2	7.0	7.4	8.9	10.9	15.9	37.3	613.2	1031.5	1228.4
80°	5.0	6.2	6.6	7.4	8.5	10.1	13.2	24.9	360.4	620.6	747.6
82.5°	5.4	6.2	7.0	7.8	8.9	9.7	11.7	15.5	166.2	410.5	464.5
85°	5.8	6.6	7.4	8.2	9.3	9.7	10.9	11.3	27.2	185.2	250.5
87.5°	6.2	7.0	7.8	8.5	10.1	10.1	10.1	10.1	9.3	19.8	50.5
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-SA1C-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6
2.5°	1905.3	1949.2	1979.9	1987.6	1965.5	1955.4	1927.4	1883.9	1857.5	1856.4
5°	2007.8	2110.7	2182.2	2194.2	2151.5	2079.3	1993.5	1882.8	1817.9	1798.5
7.5°	1990.4	2170.6	2285.5	2302.2	2230.4	2092.5	1926.3	1748.0	1677.3	1647.4
10°	1918.5	2138.3	2302.6	2329.0	2233.1	2038.9	1827.6	1628.8	1541.0	1518.1
12.5°	1857.1	2079.3	2225.3	2261.8	2189.2	1995.4	1768.6	1552.3	1458.3	1436.9
15°	1830.3	2009.4	2098.7	2117.3	2105.3	1968.2	1762.4	1540.6	1433.1	1409.8
17.5°	1857.1	1950.0	1961.2	1980.3	2007.1	1965.5	1822.2	1603.9	1487.8	1459.1
20°	1927.4	1898.3	1851.7	1859.9	1921.2	1976.8	1928.6	1744.1	1602.8	1572.1
22.5°	2047.1	1885.5	1779.9	1772.9	1850.5	2014.4	2084.7	1934.0	1770.2	1739.9
25°	2193.9	1917.7	1753.5	1738.3	1823.0	2069.6	2254.4	2166.7	1987.6	1941.4
27.5°	2353.9	1984.5	1753.5	1738.7	1820.6	2118.5	2399.7	2372.5	2212.9	2162.4
30°	2441.6	2039.7	1778.7	1762.0	1849.4	2146.9	2477.4	2555.4	2382.2	2319.7
32.5°	2520.1	2116.2	1828.0	1796.6	1909.6	2188.8	2546.9	2710.8	2517.0	2475.0
35°	2592.3	2198.1	1896.0	1859.5	1988.8	2246.3	2623.8	2873.9	2704.6	2641.2
37.5°	2671.9	2293.3	2002.0	1970.9	2121.2	2358.1	2715.0	3088.3	2889.0	2809.4
40°	2758.5	2403.6	2176.4	2163.2	2331.7	2484.7	2830.4	3317.0	3099.5	3009.0
42.5°	2846.7	2530.6	2390.0	2411.7	2570.2	2662.2	2948.8	3492.9	3271.9	3172.1
45°	2926.7	2692.9	2667.7	2775.2	2848.2	2835.4	3036.6	3616.8	3422.2	3326.7
47.5°	3027.7	2929.4	3003.6	3169.4	3171.4	3023.8	3103.0	3718.2	3551.6	3456.0
50°	3140.7	3208.6	3437.4	3606.3	3560.9	3209.0	3180.7	3838.2	3685.2	3608.7
52.5°	3271.6	3521.3	3838.2	4025.8	3919.7	3411.0	3310.0	3967.9	3897.2	3823.8
55°	3423.8	3734.5	4237.8	4387.3	4280.5	3661.9	3506.5	4143.8	4136.8	4086.7
57.5°	3595.8	3959.7	4469.3	4671.6	4576.5	3956.2	3781.1	4309.7	4283.2	4255.3
59°	3731.8	4075.5	4571.4	4781.1	4723.6	4162.5	3965.6	4413.0	4317.0	4275.1
60°	3814.1	4153.9	4609.1	4795.9	4782.7	4285.2	4082.5	4463.4	4316.6	4258.4
62.5°	4058.4	4291.0	4594.7	4730.2	4781.9	4520.5	4425.4	4519.0	4236.6	4151.2
65°	4145.4	4245.6	4356.6	4339.9	4384.2	4508.5	4644.4	4458.0	4065.8	3944.2
67.5°	3976.0	3747.3	3786.5	3675.1	3653.3	4008.3	4555.5	4159.7	3731.4	3582.6
70°	3351.6	2870.8	2851.0	2902.2	2761.6	3245.2	4090.6	3585.4	3179.5	3011.0
72.5°	2638.1	2028.8	1861.8	2050.6	2046.3	2475.8	3398.2	2544.2	2148.0	2133.7
75°	2074.6	1412.5	1239.7	1270.3	1329.4	1792.3	2706.5	1615.6	1322.8	1205.5
77.5°	1392.7	1000.8	933.6	896.0	959.6	1150.7	1712.3	876.1	741.8	702.5
80°	802.7	727.0	825.7	749.5	783.7	725.1	851.7	402.0	333.6	361.2
82.5°	522.3	414.0	441.2	327.8	448.2	452.1	273.4	118.8	100.6	106.8
85°	326.6	194.2	109.1	77.7	154.6	284.3	85.4	7.4	8.5	7.4
87.5°	84.7	32.2	13.6	20.2	24.9	22.1	19.8	1.2	0.4	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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