

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: P450782

Luminaire Tested: **GALN-SA1C-760-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450782
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-SA1C-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1050mA 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: 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 III - Short
BUG Rating: B1 - U0 - G1

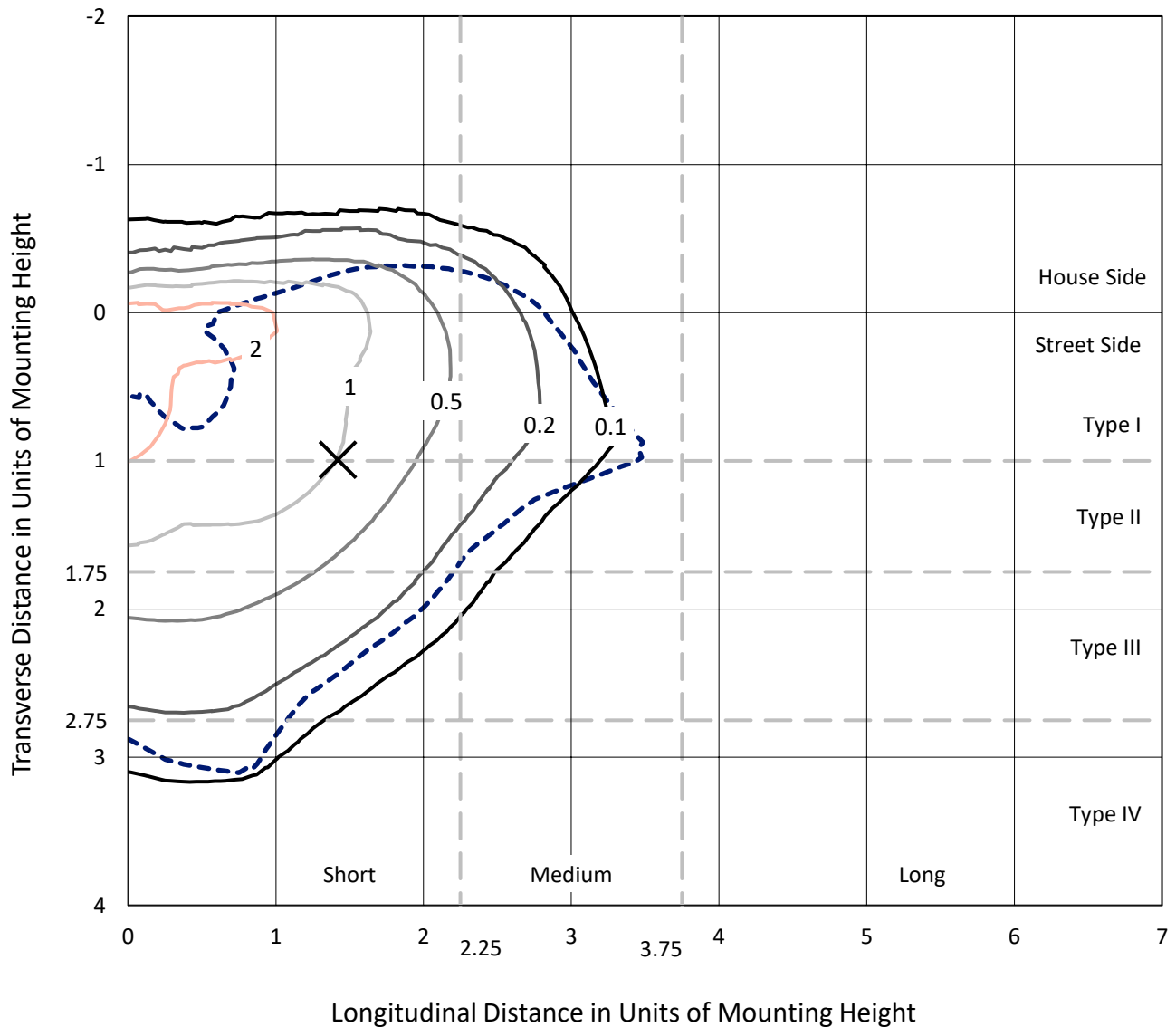
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

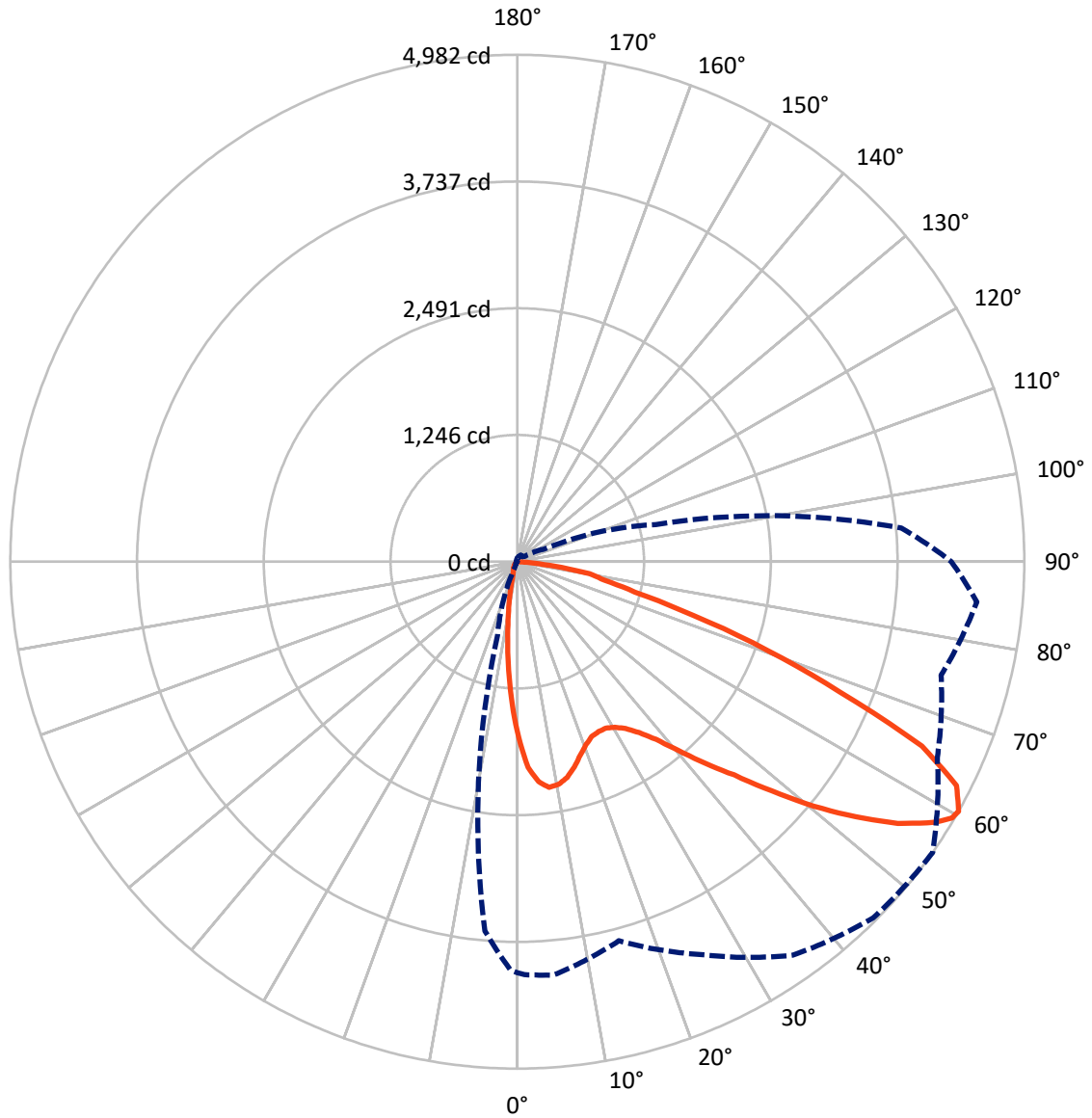
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	758.2	0.0	758.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	4350.8	0.0	4350.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	5109.0	0.0	5109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	2.5
10°-20°	252.3	4.9
20°-30°	373.4	7.3
30°-40°	556.6	10.9
40°-50°	815.1	16.0
50°-60°	1176.8	23.0
60°-70°	1237.9	24.2
70°-80°	509.2	10.0
80°-90°	59.6	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°	5109.0	100.0
0°-180°	5109.0	100.0

Coefficient of Utilization



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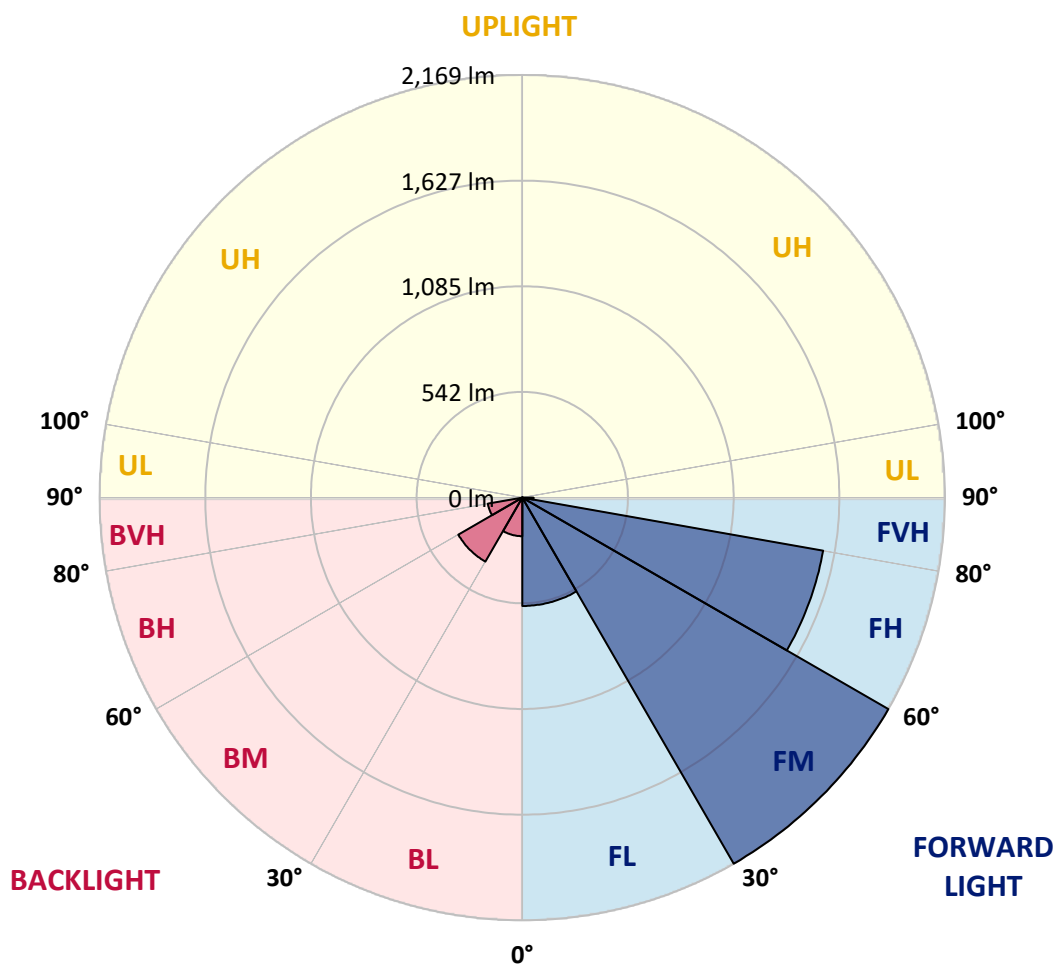
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	555.9	10.9			
FM	(30°-60°)	2169.3	42.5			
FH	(60°-80°)	1567.7	30.7			G1/1800
FVH	(80°-90°)	57.9	1.1			G1/100
BL	(0°-30°)	197.8	3.9	B1/500		
BM	(30°-60°)	379.2	7.4	B1/1000		
BH	(60°-80°)	179.5	3.5	B1/500		G1/500
BVH	(80°-90°)	1.8	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°	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9
2.5°	1889.9	1886.8	1914.7	1960.3	2006.3	2030.3	2025.6	2023.6	1985.5	1957.6	1899.0
5°	1886.0	1902.1	1952.1	2075.6	2169.2	2214.4	2227.7	2171.5	2097.2	1989.4	1856.5
7.5°	1773.2	1793.2	1874.6	2067.7	2234.0	2332.3	2328.8	2238.8	2085.4	1918.7	1729.1
10°	1633.2	1656.7	1752.3	1986.7	2202.6	2332.3	2339.4	2225.4	2034.7	1820.7	1621.4
12.5°	1534.4	1562.4	1668.2	1911.2	2121.6	2249.4	2257.6	2175.0	1996.5	1783.0	1562.8
15°	1501.0	1527.4	1634.7	1873.0	2035.4	2104.3	2102.3	2093.6	1981.6	1792.0	1565.9
17.5°	1558.4	1580.1	1701.2	1890.3	1954.8	1947.8	1958.0	1999.7	1984.7	1867.9	1665.0
20°	1706.7	1728.7	1858.9	1943.4	1893.1	1848.3	1853.0	1922.6	2013.8	2010.7	1819.9
22.5°	1910.8	1948.1	2066.1	2046.5	1884.8	1786.5	1776.7	1867.1	2063.4	2175.0	2029.2
25°	2169.2	2206.9	2298.9	2210.8	1925.3	1772.0	1762.9	1850.2	2123.5	2335.5	2264.7
27.5°	2386.2	2414.9	2506.6	2370.9	1985.1	1778.3	1763.3	1852.6	2172.3	2472.0	2463.3
30°	2560.0	2581.3	2635.1	2445.6	2036.6	1805.8	1788.5	1887.2	2193.9	2538.4	2624.1
32.5°	2700.0	2735.8	2752.7	2525.4	2110.6	1857.7	1828.2	1953.7	2246.6	2620.6	2792.8
35°	2860.1	2901.4	2879.7	2601.7	2208.1	1938.7	1902.5	2061.4	2326.4	2696.5	2988.7
37.5°	3063.0	3110.6	3026.0	2681.9	2311.1	2060.6	2043.7	2212.8	2447.6	2805.0	3198.7
40°	3273.0	3300.5	3168.0	2779.5	2437.7	2238.0	2254.1	2437.7	2606.0	2935.2	3422.0
42.5°	3437.0	3462.9	3313.9	2861.3	2567.1	2448.4	2515.6	2709.1	2787.7	3068.5	3588.8
45°	3562.4	3584.4	3415.0	2950.5	2741.7	2753.1	2880.1	2988.7	2969.8	3149.9	3717.4
47.5°	3659.9	3678.8	3492.8	3046.5	3003.2	3125.9	3320.2	3366.2	3158.6	3238.0	3833.8
50°	3700.1	3705.6	3517.2	3168.8	3300.1	3601.0	3803.5	3775.6	3374.8	3335.9	3957.6
52.5°	3752.4	3751.2	3586.8	3285.2	3579.3	4025.7	4227.8	4164.5	3619.4	3482.6	4096.8
55°	3889.6	3891.2	3735.8	3450.3	3817.2	4368.6	4584.9	4538.9	3877.4	3730.3	4259.3
57.5°	4056.3	4062.2	3947.8	3643.4	4044.5	4617.1	4851.5	4833.8	4226.2	4006.0	4412.6
59°	4078.0	4089.8	4048.1	3779.5	4179.4	4693.4	4942.7	4960.0	4413.0	4187.7	4495.6
60°	4038.6	4058.3	4077.2	3856.6	4258.5	4720.9	4948.2	4982.0	4553.4	4311.2	4533.4
62.5°	3867.2	3898.3	3993.0	4093.7	4357.2	4635.2	4772.4	4843.2	4727.2	4635.6	4536.9
65°	3642.6	3658.8	3795.6	4135.8	4165.7	4234.9	4277.3	4368.2	4518.4	4760.6	4374.5
67.5°	3274.6	3322.2	3489.7	3891.6	3600.6	3518.8	3508.2	3417.7	3807.8	4462.6	3974.2
70°	2705.1	2726.4	2932.8	3190.4	2717.3	2591.5	2641.8	2608.0	2951.7	3841.6	3198.7
72.5°	2045.7	2093.6	2295.4	2543.1	1849.0	1685.8	1824.7	1812.1	2217.1	3087.4	2197.5
75°	1455.4	1486.5	1743.7	1990.2	1295.0	1097.2	1147.1	1193.9	1547.8	2437.7	1298.5
77.5°	1000.0	1026.8	1219.9	1316.2	944.6	904.9	827.8	873.0	1014.2	1446.4	706.7
80°	603.2	602.1	729.1	752.7	657.9	764.1	641.0	719.6	613.1	619.0	273.7
82.5°	391.7	387.7	445.9	486.1	366.1	385.0	258.4	372.4	399.5	172.6	86.5
85°	175.4	182.9	214.3	282.7	160.4	85.3	52.7	114.4	170.3	86.9	0.0
87.5°	18.1	14.2	37.8	68.8	22.0	2.4	7.9	3.9	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°	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9
2.5°	1871.9	1849.0	1781.0	1717.3	1662.6	1595.8	1552.5	1484.5	1443.2	1430.6	1432.6
5°	1796.7	1731.1	1601.7	1498.3	1383.0	1317.4	1217.5	1121.5	1069.6	1050.4	1041.7
7.5°	1639.4	1569.1	1412.9	1250.5	1127.0	1011.8	937.5	853.0	795.1	747.6	739.3
10°	1522.7	1430.2	1236.8	1062.2	964.6	878.1	803.8	719.2	651.2	596.9	582.0
12.5°	1452.7	1349.2	1133.3	987.0	894.6	805.8	709.0	611.1	541.5	482.9	455.8
15°	1440.1	1320.1	1104.2	933.2	819.1	711.8	583.2	477.4	405.8	350.4	333.5
17.5°	1516.0	1372.4	1099.9	876.9	720.4	568.2	434.5	346.8	266.2	235.2	223.0
20°	1651.2	1464.8	1099.5	811.7	619.0	437.7	305.2	226.1	193.5	178.5	171.5
22.5°	1835.7	1590.7	1120.4	755.4	513.6	322.9	217.9	180.1	161.2	149.0	146.3
25°	2061.0	1777.1	1171.5	717.3	433.0	253.3	179.7	154.2	138.4	132.9	130.6
27.5°	2261.2	1955.6	1227.7	678.0	375.2	224.2	166.7	141.2	128.6	124.3	120.7
30°	2433.8	2117.6	1254.9	626.0	328.8	205.3	169.1	151.0	134.5	121.5	115.6
32.5°	2577.7	2241.9	1272.5	578.9	289.4	167.9	133.7	116.8	109.3	104.6	100.7
35°	2757.8	2376.4	1261.9	552.1	269.4	153.0	121.9	100.7	88.1	78.6	74.7
37.5°	2946.6	2510.9	1243.4	530.1	260.3	142.0	116.0	95.6	81.8	72.0	66.9
40°	3142.0	2635.5	1221.8	509.6	252.1	134.9	112.5	91.2	77.5	66.9	61.3
42.5°	3321.0	2757.1	1213.2	496.3	238.7	136.1	109.7	89.3	73.1	62.1	57.4
45°	3465.7	2872.3	1225.0	489.2	224.2	134.1	110.5	86.9	69.6	59.0	54.3
47.5°	3620.2	3035.1	1263.1	482.1	210.0	124.7	116.4	86.5	68.0	57.0	51.9
50°	3799.9	3243.5	1350.4	464.8	192.7	114.4	123.9	86.1	66.1	54.7	49.5
52.5°	4039.4	3480.2	1440.5	434.5	167.5	104.6	118.4	84.9	62.1	51.9	46.8
55°	4254.5	3729.6	1516.8	398.8	135.7	90.4	106.6	79.8	55.4	47.2	42.5
57.5°	4343.4	3870.3	1514.4	349.2	108.5	79.4	87.7	73.1	48.4	41.7	37.8
59°	4310.8	3852.6	1463.7	312.6	99.1	73.5	72.8	72.4	45.2	37.8	34.6
60°	4264.8	3788.1	1409.0	294.5	93.2	69.6	66.9	71.6	42.5	35.4	32.2
62.5°	4088.6	3520.7	1227.7	263.9	85.3	59.0	53.5	60.6	37.8	30.7	27.9
65°	3833.4	3109.8	1039.4	255.2	83.0	48.8	44.4	43.3	32.2	26.0	23.6
67.5°	3335.5	2631.6	841.9	249.3	83.8	40.9	38.9	32.6	26.7	21.6	20.1
70°	2670.5	2052.0	689.4	242.6	84.5	33.4	32.6	26.0	21.6	18.1	16.5
72.5°	1622.5	1216.3	542.7	210.8	82.2	26.7	29.1	19.7	15.7	13.0	12.2
75°	1003.2	832.5	336.6	164.0	54.3	19.7	20.4	12.2	10.6	8.3	8.3
77.5°	581.2	525.8	120.3	59.0	24.0	11.8	9.0	6.3	5.9	3.5	3.5
80°	241.1	193.1	41.7	20.1	13.0	5.5	2.0	0.4	0.0	0.0	0.0
82.5°	70.4	62.5	11.4	9.0	3.9	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°	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9
2.5°	1399.2	1386.2	1380.3	1400.4	1381.9	1405.5	1387.4	1395.2	1418.4	1428.7	1455.0
5°	1047.2	1033.8	1027.6	1057.8	1056.3	1071.2	1069.6	1083.4	1095.2	1068.8	1096.0
7.5°	729.5	720.4	735.4	759.0	784.1	775.9	775.9	757.4	763.7	759.8	758.6
10°	554.9	523.8	515.9	515.2	524.6	526.6	515.9	490.4	499.8	502.6	519.1
12.5°	436.5	412.5	375.9	359.4	355.1	358.6	323.6	301.2	311.8	305.6	321.7
15°	313.0	293.4	271.7	253.3	248.1	241.1	202.9	176.2	173.0	174.2	177.0
17.5°	223.4	210.0	210.0	190.3	179.7	158.5	139.2	127.4	126.2	127.4	129.4
20°	164.8	157.7	156.9	151.8	140.0	125.8	112.5	110.1	109.3	111.3	112.1
22.5°	142.0	134.5	128.2	127.8	116.8	105.0	98.7	95.6	96.0	96.7	98.7
25°	127.0	119.2	112.5	108.5	100.7	92.4	86.5	84.9	84.9	86.1	86.5
27.5°	116.4	106.6	100.7	95.2	88.1	81.0	75.9	74.7	73.9	74.7	76.7
30°	108.9	99.1	91.6	83.4	77.9	71.2	66.9	65.3	64.9	65.3	66.9
32.5°	93.2	87.3	81.4	73.9	67.2	62.9	58.2	55.4	55.4	56.2	57.8
35°	70.4	67.2	66.9	64.9	59.4	54.7	49.2	46.4	46.4	48.0	48.8
37.5°	62.1	56.2	55.4	54.7	52.3	46.0	40.9	38.5	38.1	39.3	40.9
40°	56.6	49.9	46.4	45.6	46.0	38.9	33.4	31.1	31.1	31.5	33.0
42.5°	52.3	44.4	38.1	37.4	38.9	32.6	27.1	24.8	24.8	24.8	26.7
45°	48.8	39.7	32.2	28.3	30.7	26.7	22.0	19.7	18.9	19.7	20.4
47.5°	46.4	36.2	28.3	22.8	22.8	21.2	17.7	14.9	14.2	14.6	15.7
50°	44.4	33.0	24.0	18.5	16.5	16.9	13.4	11.4	10.6	10.6	11.8
52.5°	41.3	29.9	20.8	15.7	12.6	11.4	9.8	8.3	7.9	8.3	9.0
55°	37.4	27.1	18.1	13.0	9.8	7.9	7.1	5.9	5.5	5.9	7.1
57.5°	33.0	22.8	14.6	10.2	6.7	5.1	4.7	3.9	3.1	3.5	4.3
59°	30.3	20.4	12.6	8.3	5.1	3.5	3.5	2.8	2.0	2.4	3.5
60°	29.1	18.9	10.6	7.1	4.3	2.8	2.8	2.0	1.2	1.6	2.8
62.5°	24.8	15.7	8.3	4.3	2.0	0.4	1.2	0.4	0.0	0.4	1.2
65°	20.8	12.6	5.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
67.5°	17.3	9.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.4	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



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 CATALOG NUMBER: GALN-SA1C-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9
2.5°	1456.6	1512.8	1547.4	1612.7	1679.6	1731.1	1795.6	1853.4	1877.4	1889.9
5°	1123.5	1201.8	1268.2	1367.7	1460.1	1572.6	1686.6	1821.1	1872.6	1886.0
7.5°	788.5	868.3	937.9	1053.1	1184.9	1335.5	1506.1	1676.8	1751.9	1773.2
10°	569.4	654.8	739.7	854.9	978.0	1141.2	1319.0	1530.1	1616.6	1633.2
12.5°	359.4	451.1	589.1	731.4	861.6	992.9	1179.0	1408.6	1504.2	1534.4
15°	208.4	276.8	381.1	566.7	732.2	906.0	1109.0	1363.0	1470.0	1501.0
17.5°	139.6	163.2	234.8	376.7	595.4	825.8	1091.3	1400.4	1518.7	1558.4
20°	117.6	128.2	153.4	229.7	458.5	754.2	1096.0	1501.8	1657.1	1706.7
22.5°	103.4	113.3	129.4	165.2	320.1	665.4	1118.4	1646.9	1847.5	1910.8
25°	91.2	101.1	115.2	136.8	215.1	562.7	1167.6	1859.3	2099.5	2169.2
27.5°	81.0	90.1	102.2	120.7	165.6	448.3	1211.2	2066.1	2329.6	2386.2
30°	71.6	79.0	90.8	105.0	137.6	345.7	1233.2	2247.0	2497.1	2560.0
32.5°	62.1	69.2	80.6	92.0	113.3	263.5	1217.9	2379.9	2659.9	2700.0
35°	53.1	60.6	70.0	80.6	97.9	212.7	1141.2	2529.4	2828.6	2860.1
37.5°	45.6	51.9	61.7	70.0	88.5	170.3	1048.4	2663.9	3017.8	3063.0
40°	38.5	44.8	54.7	62.1	81.4	134.1	964.6	2813.3	3217.2	3273.0
42.5°	31.5	38.9	47.6	59.8	70.0	102.2	863.2	2934.4	3367.0	3437.0
45°	25.2	33.4	42.9	59.4	61.0	77.9	765.3	3028.8	3499.5	3562.4
47.5°	20.1	28.3	41.3	55.4	49.9	61.7	709.4	3127.5	3609.6	3659.9
50°	16.1	23.6	43.3	48.8	41.7	52.3	707.8	3237.6	3666.6	3700.1
52.5°	13.0	19.3	36.6	37.4	35.4	46.0	750.3	3361.5	3724.8	3752.4
55°	11.0	16.1	24.0	27.5	31.9	41.7	782.2	3552.2	3863.7	3889.6
57.5°	8.7	13.8	18.5	22.0	28.3	38.1	786.5	3699.3	4039.4	4056.3
59°	7.5	11.8	16.5	19.7	26.0	35.8	768.8	3708.3	4050.8	4078.0
60°	6.3	10.6	14.6	18.5	24.0	33.8	749.5	3642.6	4008.4	4038.6
62.5°	4.7	8.3	10.6	14.9	19.7	29.1	658.3	3413.4	3846.0	3867.2
65°	3.1	5.9	7.9	11.0	15.3	25.2	536.4	3116.1	3595.1	3642.6
67.5°	2.0	4.3	6.3	8.3	12.6	21.2	382.2	2672.1	3243.9	3274.6
70°	1.2	2.8	4.7	6.7	9.8	16.9	226.9	2112.1	2698.9	2705.1
72.5°	0.8	2.0	3.1	4.7	7.9	15.3	110.1	1376.8	1970.6	2045.7
75°	0.4	1.2	2.0	3.5	6.3	12.6	52.7	919.8	1433.8	1455.4
77.5°	0.0	0.4	1.2	2.4	4.7	9.8	30.7	604.0	977.6	1000.0
80°	0.0	0.0	0.8	2.0	3.5	6.3	18.5	356.3	592.2	603.2
82.5°	0.0	0.0	0.4	1.6	2.4	4.7	9.4	156.5	387.7	391.7
85°	0.0	0.0	0.4	1.6	2.0	3.1	3.5	21.2	172.2	175.4
87.5°	0.0	0.0	0.4	2.0	2.0	2.0	2.0	1.2	14.6	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)