

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: P452322

Luminaire Tested: **GALN-SA3B-730-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13335 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

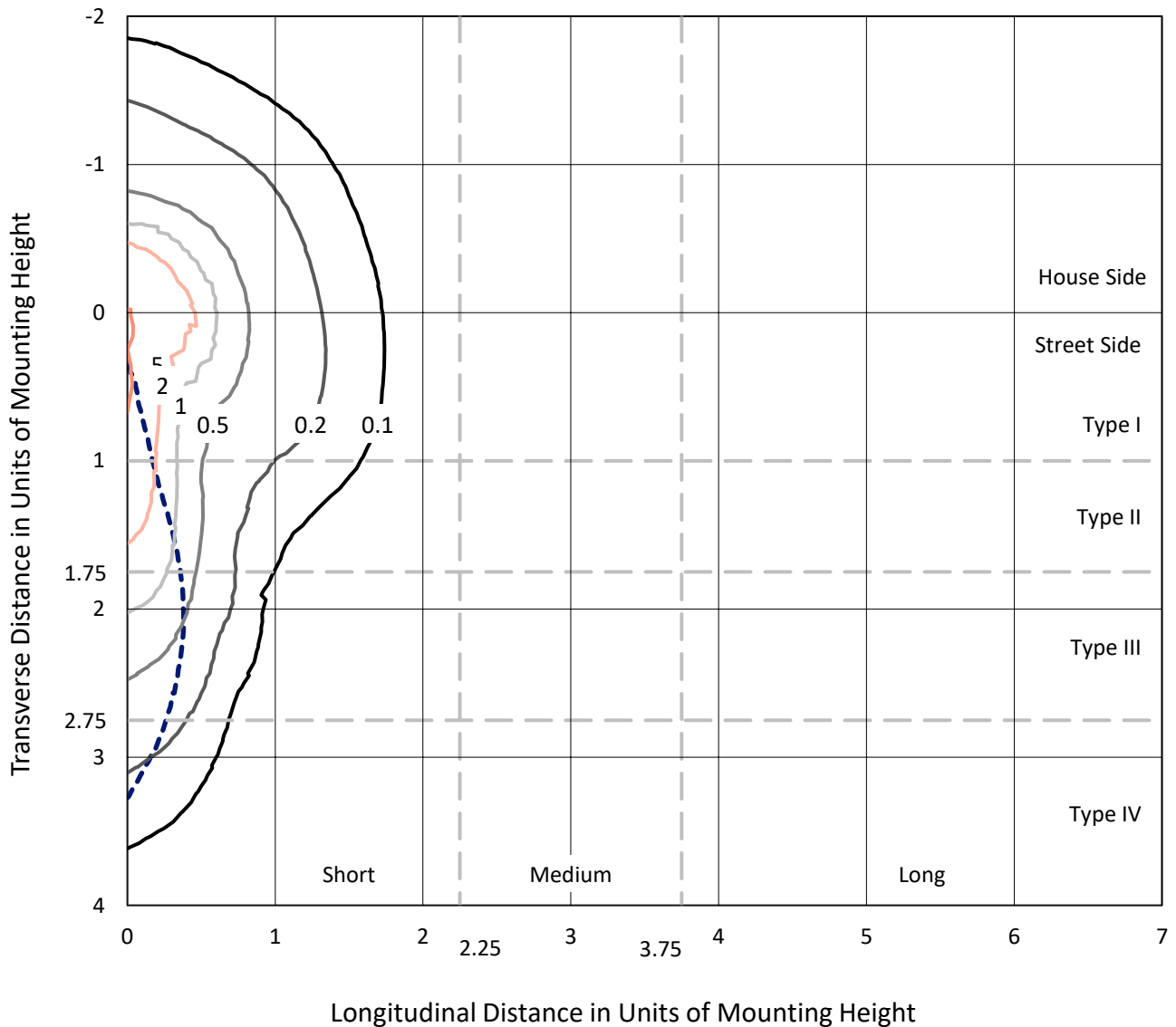
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

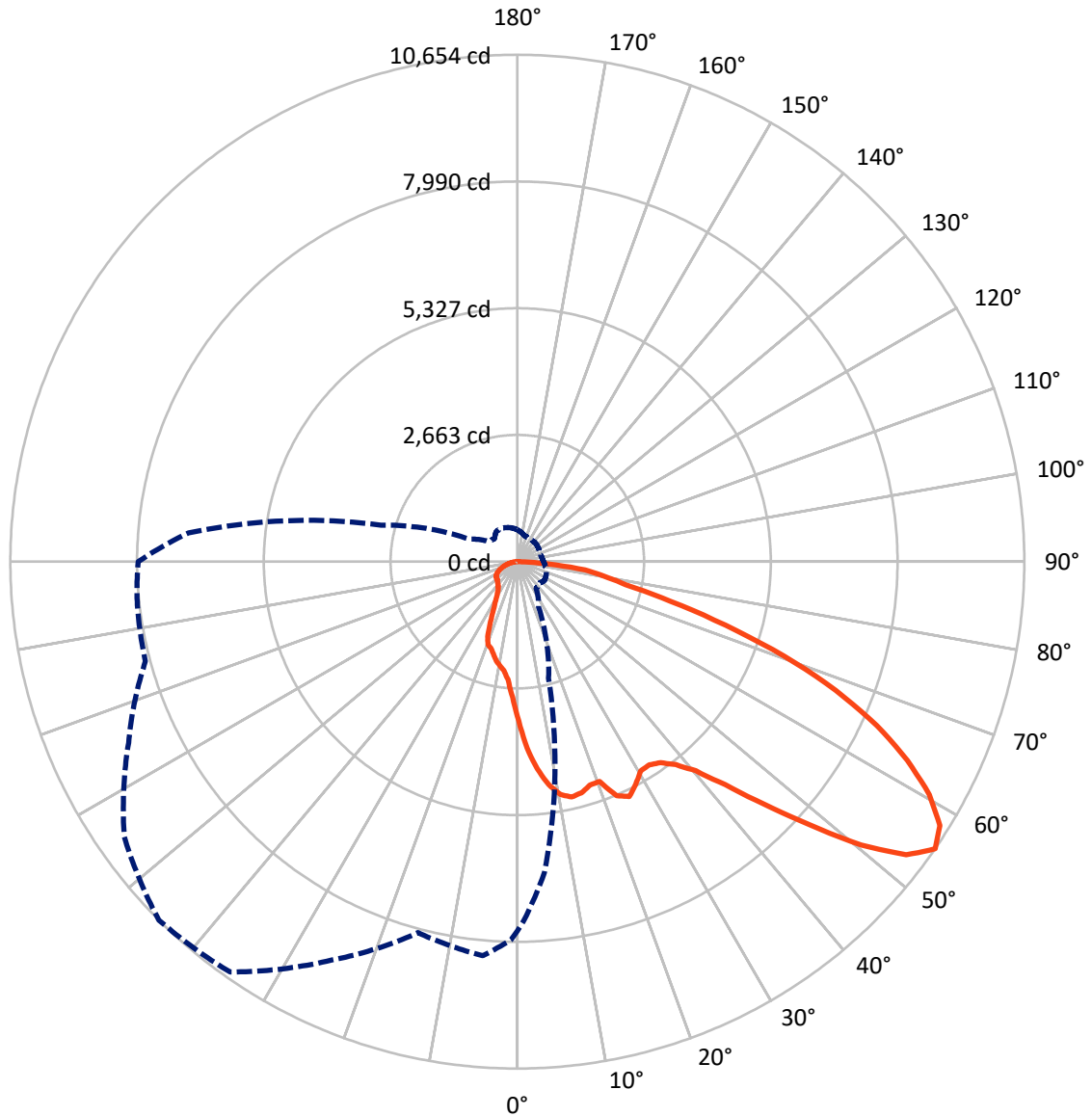
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2917.0	0.0	2917.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10418.0	0.0	10418.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	13335.0	0.0	13335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.6	2.1
10°-20°	752.5	5.6
20°-30°	1299.9	9.7
30°-40°	1510.7	11.3
40°-50°	2107.8	15.8
50°-60°	2860.0	21.4
60°-70°	2721.0	20.4
70°-80°	1469.9	11.0
80°-90°	329.4	2.5
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°	13335.0	100.0
0°-180°	13335.0	100.0

Coefficient of Utilization



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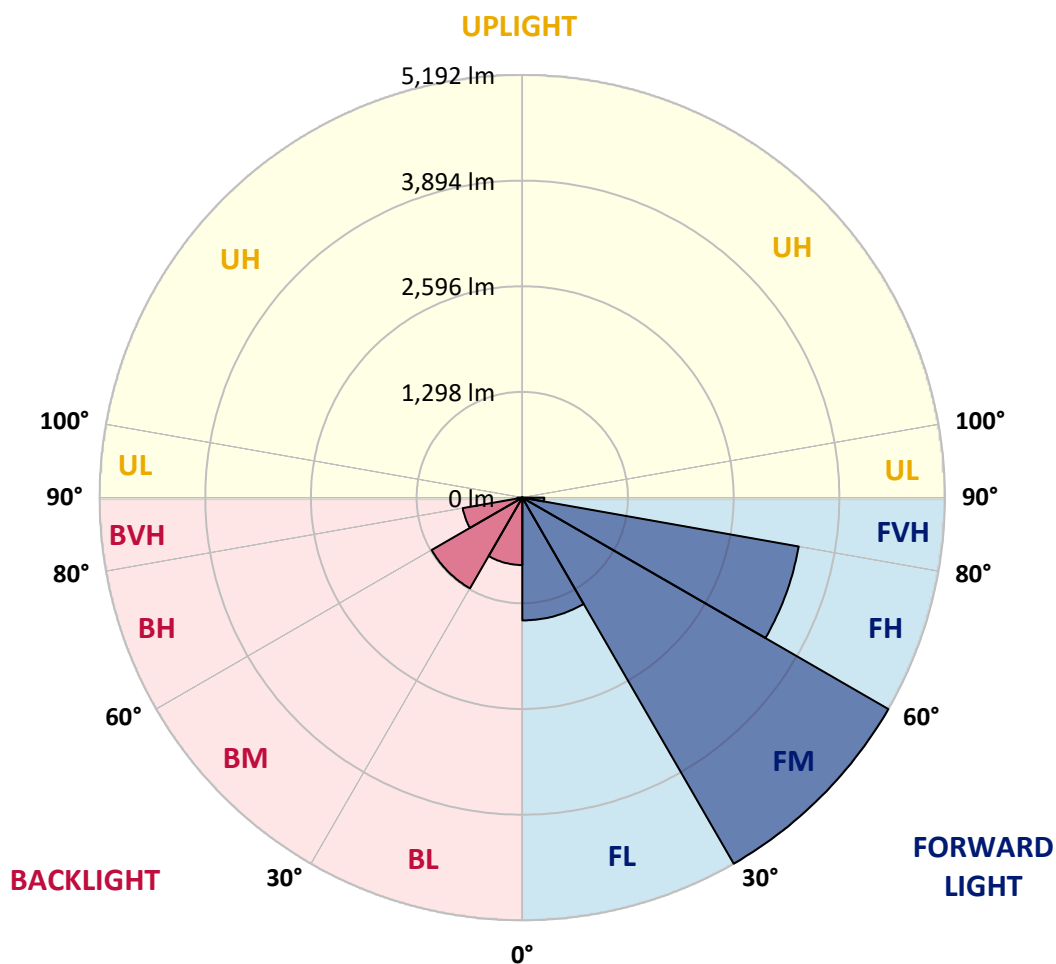
CATALOG NUMBER: GALN-SA3B-730-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1508.2	11.3			
FM	(30°-60°)	5192.4	38.9			
FH	(60°-80°)	3448.2	25.9			G2/5000
FVH	(80°-90°)	269.2	2.0			G3/500
BL	(0°-30°)	827.8	6.2	B2/1000		
BM	(30°-60°)	1286.2	9.6	B2/2500		
BH	(60°-80°)	742.7	5.6	B2/1000		G2/1000
BVH	(80°-90°)	60.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6
2.5°	3717.8	3703.7	3664.2	3560.3	3455.7	3349.2	3267.4	3165.3	3058.9	3001.7	2928.7
5°	3768.8	3753.0	3659.8	3425.7	3213.7	2991.1	2813.4	2657.7	2594.4	2501.1	2426.3
7.5°	3649.2	3642.2	3502.3	3166.2	2875.9	2584.7	2383.2	2258.3	2144.8	2102.6	2111.4
10°	3540.1	3512.0	3336.9	2897.9	2559.2	2322.5	2178.3	2056.0	1975.9	1954.8	1959.2
12.5°	3449.5	3411.7	3204.9	2717.5	2421.1	2231.9	2048.1	1920.5	1847.5	1867.7	1936.3
15°	3431.0	3380.0	3149.5	2656.0	2345.4	2101.7	1900.3	1753.3	1698.8	1742.8	1852.8
17.5°	3550.7	3486.4	3244.5	2676.2	2273.3	1968.9	1721.7	1553.6	1507.9	1578.3	1721.7
20°	3935.1	3840.1	3541.0	2793.2	2266.2	1902.9	1617.9	1448.9	1468.3	1602.0	1751.6
22.5°	4646.0	4503.4	4060.0	2963.9	2303.2	1886.2	1596.7	1508.8	1615.2	1728.7	1827.2
25°	4786.7	4675.0	4153.3	3002.6	2295.3	1874.7	1656.6	1700.6	1819.3	1875.6	1841.3
27.5°	4865.9	4738.3	4147.1	2810.8	2052.5	1700.6	1583.5	1656.6	1686.5	1631.9	1538.7
30°	5050.6	4917.8	4251.8	2609.3	1690.0	1261.6	1105.8	1075.9	1096.2	1106.7	1073.3
32.5°	5304.9	5173.8	4448.9	2477.4	1461.3	1043.4	890.3	848.1	838.4	827.0	813.8
35°	5633.9	5432.4	4642.4	2392.9	1367.1	965.1	824.3	791.8	778.6	762.7	748.7
37.5°	5968.2	5757.1	4887.0	2304.1	1304.7	910.5	780.3	765.4	742.5	725.8	705.6
40°	6323.6	6087.0	5109.6	2226.6	1244.0	875.3	748.7	746.9	717.0	697.6	673.9
42.5°	6631.5	6387.9	5308.4	2179.1	1197.3	838.4	729.3	734.6	703.8	674.8	644.0
45°	6876.1	6636.8	5492.3	2179.1	1159.5	801.5	725.8	722.3	691.5	655.4	620.2
47.5°	7090.8	6843.6	5671.7	2234.6	1135.8	770.7	706.4	712.6	680.9	635.2	600.9
50°	7257.0	7038.9	5913.7	2320.8	1112.0	746.0	681.8	715.2	672.1	624.6	585.0
52.5°	7469.1	7273.8	6204.9	2438.7	1091.8	718.8	659.8	715.2	671.2	625.5	582.4
55°	7762.9	7557.0	6555.9	2536.3	1059.2	693.2	640.5	695.0	668.6	621.1	575.4
57.5°	7968.8	7814.8	6804.0	2601.4	1012.6	660.7	622.9	675.6	657.2	604.4	554.2
58°	7978.4	7828.0	6840.0	2616.4	1001.2	654.5	618.5	666.8	651.9	597.3	547.2
60°	7867.6	7738.3	6847.1	2595.3	936.1	623.7	595.6	630.8	623.7	556.0	509.4
62.5°	7464.7	7326.5	6562.9	2423.7	849.8	585.9	560.4	582.4	566.6	497.9	454.8
65°	6892.0	6637.7	5978.8	2154.5	788.3	545.4	512.9	514.7	497.9	448.7	410.8
67.5°	6129.2	5845.1	5062.1	1815.8	741.6	500.6	456.6	452.2	432.0	400.3	369.5
70°	5190.5	4996.1	4113.7	1477.1	689.7	451.3	393.2	390.6	378.3	354.5	327.3
72.5°	4207.0	3959.7	3321.9	1182.4	626.4	403.8	334.3	339.6	323.7	307.0	282.4
75°	3104.6	2942.8	2568.0	948.4	541.0	351.9	278.9	280.6	273.6	256.0	236.7
77.5°	2044.5	1996.1	1836.9	622.9	416.1	279.8	227.9	229.6	224.3	208.5	188.3
80°	1375.9	1343.4	1244.8	401.2	278.0	202.3	175.9	177.7	176.8	160.1	132.8
82.5°	848.1	834.0	802.3	271.0	192.7	145.2	116.1	121.4	131.1	112.6	90.6
85°	400.3	401.2	484.7	147.8	113.5	93.3	63.3	67.7	67.7	67.7	51.0
87.5°	51.9	54.5	66.9	62.5	41.3	35.2	22.9	19.4	16.7	22.0	15.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6
2.5°	2903.2	2885.6	2847.7	2838.9	2833.7	2848.6	2809.0	2819.6	2802.0	2851.3	2843.3
5°	2430.7	2432.5	2463.3	2483.5	2490.6	2483.5	2457.1	2411.4	2376.2	2362.1	2365.6
7.5°	2094.7	2125.5	2178.3	2237.2	2290.9	2306.7	2291.7	2204.7	2109.6	2049.8	2030.5
10°	1983.0	2024.3	2085.0	2131.6	2179.1	2217.0	2224.9	2157.1	2044.5	1902.9	1847.5
12.5°	1989.1	2045.4	2103.5	2118.4	2114.0	2129.0	2122.0	2110.5	2036.6	1856.3	1763.9
15°	1931.0	1997.9	2038.4	2030.5	2016.4	2003.2	1984.7	1955.7	1929.3	1802.6	1700.6
17.5°	1797.3	1865.9	1899.4	1902.0	1902.0	1898.5	1853.6	1843.1	1839.6	1778.0	1715.5
20°	1822.0	1859.8	1844.8	1820.2	1827.2	1851.0	1824.6	1819.3	1839.6	1866.8	1855.4
22.5°	1836.0	1822.8	1710.2	1601.1	1576.5	1650.4	1665.4	1724.3	1806.1	1904.7	1968.9
25°	1748.9	1642.5	1441.0	1317.9	1248.4	1317.0	1406.7	1515.8	1638.1	1764.8	1839.6
27.5°	1462.1	1381.2	1236.9	1126.1	1065.4	1075.9	1152.5	1251.9	1365.4	1450.7	1505.3
30°	1101.4	1065.4	990.6	952.8	915.8	907.0	939.6	977.4	1027.5	1038.1	1052.2
32.5°	811.1	805.8	810.2	797.9	790.9	790.0	780.3	789.1	794.4	800.6	788.3
35°	733.7	726.7	714.4	710.8	706.4	708.2	703.8	699.4	702.9	708.2	711.7
37.5°	694.1	683.6	666.0	659.8	659.8	662.5	655.4	653.7	659.8	676.5	685.3
40°	663.3	651.0	630.8	622.9	628.1	635.2	625.5	622.0	636.9	654.5	668.6
42.5°	634.3	624.6	605.3	596.5	600.9	614.1	600.0	597.3	616.7	636.1	652.8
45°	609.7	600.0	582.4	578.0	579.8	592.1	582.4	582.4	600.9	622.0	636.9
47.5°	590.3	578.0	566.6	563.0	564.8	571.8	570.1	570.1	587.7	609.7	624.6
50°	571.0	560.4	545.4	547.2	551.6	561.3	560.4	563.0	580.6	607.9	623.7
52.5°	562.2	546.3	529.6	531.4	544.6	556.0	552.5	555.1	575.4	626.4	649.3
55°	552.5	531.4	512.0	514.7	529.6	546.3	541.9	545.4	569.2	638.7	670.4
57.5°	534.0	509.4	488.3	490.0	512.0	529.6	522.6	527.0	555.1	625.5	658.9
58°	526.1	505.0	484.7	485.6	506.7	526.1	518.2	521.7	550.7	622.0	653.7
60°	492.7	480.3	462.7	463.6	483.9	500.6	496.2	499.7	527.8	596.5	620.2
62.5°	446.9	439.9	435.5	435.5	447.8	463.6	468.0	472.4	497.9	539.3	560.4
65°	397.6	397.6	398.5	398.5	406.4	426.7	429.3	440.8	464.5	484.7	500.6
67.5°	364.2	362.5	364.2	359.8	363.3	375.7	388.8	399.4	424.0	438.1	443.4
70°	321.1	320.2	321.1	315.0	319.3	329.9	338.7	356.3	381.8	392.4	395.0
72.5°	278.9	278.9	280.6	276.2	276.2	287.7	293.8	313.2	336.9	343.1	344.0
75°	234.9	237.5	237.5	231.4	233.1	240.2	248.1	263.9	285.9	290.3	290.3
77.5°	186.5	196.2	196.2	190.0	192.7	193.5	204.1	212.0	228.7	230.5	223.5
80°	135.5	145.2	153.1	147.8	152.2	146.9	153.1	158.4	175.1	167.2	155.7
82.5°	96.8	103.8	110.0	110.8	106.4	96.8	104.7	105.6	113.5	102.9	96.8
85°	53.7	59.8	67.7	64.2	57.2	51.0	53.7	55.4	54.5	51.9	48.4
87.5°	14.1	15.0	16.7	12.3	11.4	9.7	13.2	13.2	15.0	15.8	15.0
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°	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6
2.5°	2849.5	2888.2	2971.8	3035.1	3112.6	3206.7	3317.5	3429.3	3549.8	3587.6	3640.4
5°	2357.7	2454.5	2495.0	2610.2	2724.6	2896.1	3079.1	3291.1	3523.4	3635.1	3742.5
7.5°	2014.6	2066.5	2108.8	2193.2	2330.5	2539.0	2768.6	3033.4	3362.4	3525.2	3682.6
10°	1829.9	1835.2	1887.1	1991.8	2111.4	2295.3	2512.6	2809.0	3175.9	3373.8	3558.6
12.5°	1707.6	1684.7	1741.0	1850.1	1985.6	2155.4	2355.1	2637.5	3041.3	3244.5	3468.0
15°	1600.3	1564.2	1606.4	1718.1	1851.9	2051.6	2266.2	2565.3	2988.5	3225.2	3473.2
17.5°	1602.9	1503.5	1518.4	1612.6	1745.4	1948.6	2209.0	2562.7	3068.6	3341.3	3635.1
20°	1800.8	1641.6	1573.9	1591.5	1719.9	1941.6	2235.4	2685.9	3331.6	3729.3	4043.3
22.5°	1995.3	1899.4	1790.3	1754.2	1824.6	2056.9	2403.5	2977.1	3903.4	4502.6	5070.0
25°	1927.5	2009.3	1982.1	1931.0	1946.9	2139.5	2517.8	3216.4	4347.7	5022.5	5555.6
27.5°	1542.2	1690.9	1720.8	1719.9	1726.1	1884.4	2264.5	3055.4	4403.1	5121.9	5631.3
30°	1083.9	1097.0	1112.9	1143.7	1171.8	1313.5	1771.8	2682.4	4378.5	5166.8	5677.0
32.5°	782.1	799.7	821.7	863.9	930.8	1111.1	1550.1	2563.6	4508.7	5352.4	5810.7
35°	715.2	735.5	756.6	805.0	868.3	1035.5	1462.1	2514.3	4722.5	5653.3	6050.9
37.5°	694.1	717.0	735.5	770.7	821.7	980.9	1382.1	2480.9	4941.5	5971.7	6372.9
40°	679.2	705.6	720.5	748.7	783.9	930.8	1310.8	2454.5	5153.6	6262.9	6631.5
42.5°	666.0	693.2	712.6	732.8	761.9	885.9	1247.5	2428.1	5337.4	6545.3	6889.3
45°	650.1	684.4	709.1	724.9	750.4	848.1	1199.1	2407.0	5546.8	6796.1	7149.7
47.5°	636.9	674.8	705.6	724.0	733.7	821.7	1160.4	2436.0	5798.4	7058.2	7391.6
50°	637.8	673.9	712.6	741.6	716.1	799.7	1136.6	2551.3	6125.7	7369.7	7582.6
52.5°	666.0	710.0	740.7	747.8	691.5	773.3	1124.3	2752.7	6512.8	7645.0	7775.2
55°	697.6	743.4	776.8	772.4	678.3	739.9	1121.7	2967.4	6936.8	7966.1	8025.9
57.5°	686.2	753.1	804.1	781.2	679.2	707.3	1110.2	3140.7	7291.4	8206.3	8274.0
58°	682.7	749.5	807.6	779.5	676.5	697.6	1107.6	3155.7	7340.6	8223.0	8309.2
60°	648.4	718.8	805.0	766.3	661.6	671.2	1078.6	3204.0	7327.4	8136.8	8330.3
62.5°	585.9	644.0	744.3	702.0	615.8	636.1	1013.5	3144.2	6970.2	7721.6	8021.5
65°	515.5	558.6	625.5	617.6	550.7	600.0	924.6	2907.6	6255.0	7047.7	7363.5
67.5°	462.7	497.9	540.2	528.7	495.3	551.6	828.7	2507.3	5452.7	6238.3	6635.9
70°	409.1	436.4	457.5	449.6	439.0	504.1	743.4	2034.9	4683.8	5469.4	5854.7
72.5°	354.5	380.1	397.6	386.2	380.1	454.0	673.9	1579.1	3699.3	4512.2	5007.5
75°	296.5	322.0	334.3	321.1	317.6	400.3	571.0	1179.7	2775.6	3478.5	3906.1
77.5°	229.6	256.9	272.7	268.3	270.1	329.0	461.0	807.6	1984.7	2370.9	2821.4
80°	161.0	190.9	201.5	197.1	209.4	250.7	325.5	512.9	1368.9	1538.7	1856.3
82.5°	99.4	127.6	129.3	133.7	142.5	185.6	245.4	312.3	859.5	888.5	1119.0
85°	50.1	60.7	65.1	72.1	80.1	113.5	139.9	193.5	553.4	418.8	625.5
87.5°	16.7	17.6	21.1	26.4	32.6	46.6	59.8	79.2	137.2	75.7	193.5
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: P452322

CATALOG NUMBER: GALN-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6
2.5°	3746.8	3821.6	3876.2	3926.3	3877.9	3873.5	3826.0	3749.5	3717.8	3717.8
5°	3967.7	4142.7	4284.4	4375.0	4336.3	4243.0	4089.1	3892.9	3787.3	3768.8
7.5°	4028.4	4374.1	4637.2	4730.4	4665.3	4459.4	4164.7	3833.9	3682.6	3649.2
10°	3991.4	4441.0	4827.2	4975.0	4884.4	4572.9	4170.9	3765.3	3578.8	3540.1
12.5°	3952.7	4449.8	4862.4	5076.2	5017.2	4664.4	4215.8	3720.5	3504.9	3449.5
15°	3980.9	4453.3	4819.3	5040.1	5077.9	4774.4	4289.7	3753.0	3490.0	3431.0
17.5°	4158.6	4520.1	4757.7	4936.3	5069.1	4924.0	4499.9	3908.7	3623.7	3550.7
20°	4529.8	4680.3	4792.9	4931.0	5144.8	5229.2	4930.1	4336.3	3999.3	3935.1
22.5°	5604.9	5577.6	5347.1	5344.5	5654.1	5992.8	5972.6	5205.5	4698.7	4646.0
25°	6007.8	5881.1	5547.7	5466.8	5603.1	6125.7	6050.0	5383.2	4915.2	4786.7
27.5°	5850.3	5536.3	5317.2	5298.7	5253.9	5747.4	5929.5	5455.3	4990.8	4865.9
30°	5840.7	5378.8	5065.6	5102.5	5145.7	5617.2	5996.4	5681.4	5184.4	5050.6
32.5°	5864.4	5400.8	5084.1	5091.1	5219.5	5636.5	6070.3	5927.7	5438.6	5304.9
35°	5960.3	5525.7	5202.0	5185.2	5385.8	5763.2	6196.1	6314.8	5786.1	5633.9
37.5°	6115.1	5774.7	5417.5	5413.1	5704.3	5992.0	6352.7	6705.4	6131.8	5968.2
40°	6343.0	6065.9	5801.1	5777.3	6137.1	6364.1	6555.9	7121.6	6533.9	6323.6
42.5°	6618.3	6415.1	6306.9	6401.1	6746.8	6782.0	6872.6	7506.0	6876.1	6631.5
45°	6873.5	6863.8	7014.2	7264.1	7465.5	7254.4	7203.4	7763.8	7141.8	6876.1
47.5°	7177.0	7439.2	7893.1	8259.1	8470.2	7804.3	7485.8	7931.8	7335.3	7090.8
50°	7484.9	8128.0	8852.9	9363.2	9408.0	8401.6	7680.2	8090.2	7511.3	7257.0
52.5°	7808.6	8677.8	9642.9	10235.9	10148.8	8921.5	7868.5	8197.5	7692.5	7469.1
55°	8090.2	9014.8	10084.6	10653.8	10526.2	9238.2	8071.7	8313.6	7951.2	7762.9
57.5°	8247.6	9042.9	9974.6	10471.6	10333.5	9176.7	8164.9	8399.8	8116.6	7968.8
58°	8270.5	9005.1	9876.9	10366.1	10225.3	9124.8	8164.1	8396.3	8127.1	7978.4
60°	8250.3	8759.7	9513.6	9949.1	9801.3	8799.2	8130.6	8330.3	7993.4	7867.6
62.5°	8062.9	8333.9	8886.3	9203.1	9160.8	8290.8	7993.4	8081.4	7586.1	7464.7
65°	7816.6	7753.2	8083.1	8307.5	8339.1	7909.8	7857.0	7543.0	7063.5	6892.0
67.5°	7517.5	7095.2	7094.3	7221.9	7274.6	7323.9	7572.9	6957.9	6310.4	6129.2
70°	7009.8	6080.8	5801.1	5951.5	5907.5	6323.6	7065.3	6136.2	5402.5	5190.5
72.5°	6079.1	4825.4	4377.6	4571.2	4460.3	4959.1	6182.0	5049.8	4467.4	4207.0
75°	4927.5	3609.6	3147.7	3325.5	3256.8	3761.8	5143.9	3667.7	3204.0	3104.6
77.5°	3826.0	2615.5	2347.2	2322.5	2373.6	2799.4	3773.2	2476.5	2112.3	2044.5
80°	2458.0	1872.1	1887.9	1856.3	1882.7	1764.8	2290.9	1580.0	1430.5	1375.9
82.5°	1617.9	1304.7	1555.4	1435.7	1363.6	1186.8	1502.6	1034.6	878.0	848.1
85°	1102.3	960.7	874.5	668.6	787.4	914.1	1127.0	556.9	441.6	400.3
87.5°	497.9	334.3	245.4	151.3	239.3	276.2	547.2	65.1	50.1	51.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)