

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: P451481

Luminaire Tested: **GALN-SA2B-760-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451481
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-SA2B-760-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 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: 9863 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

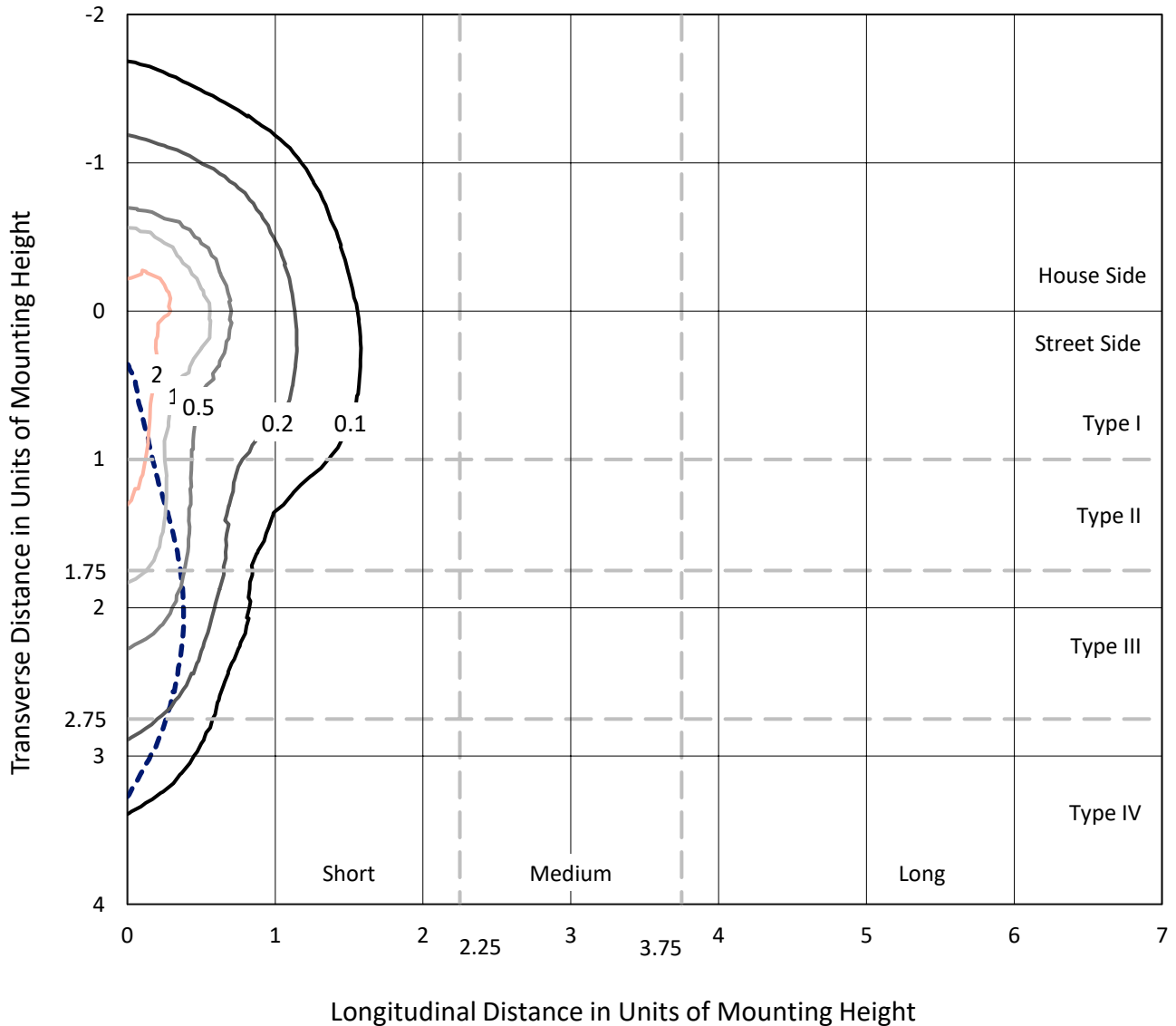
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

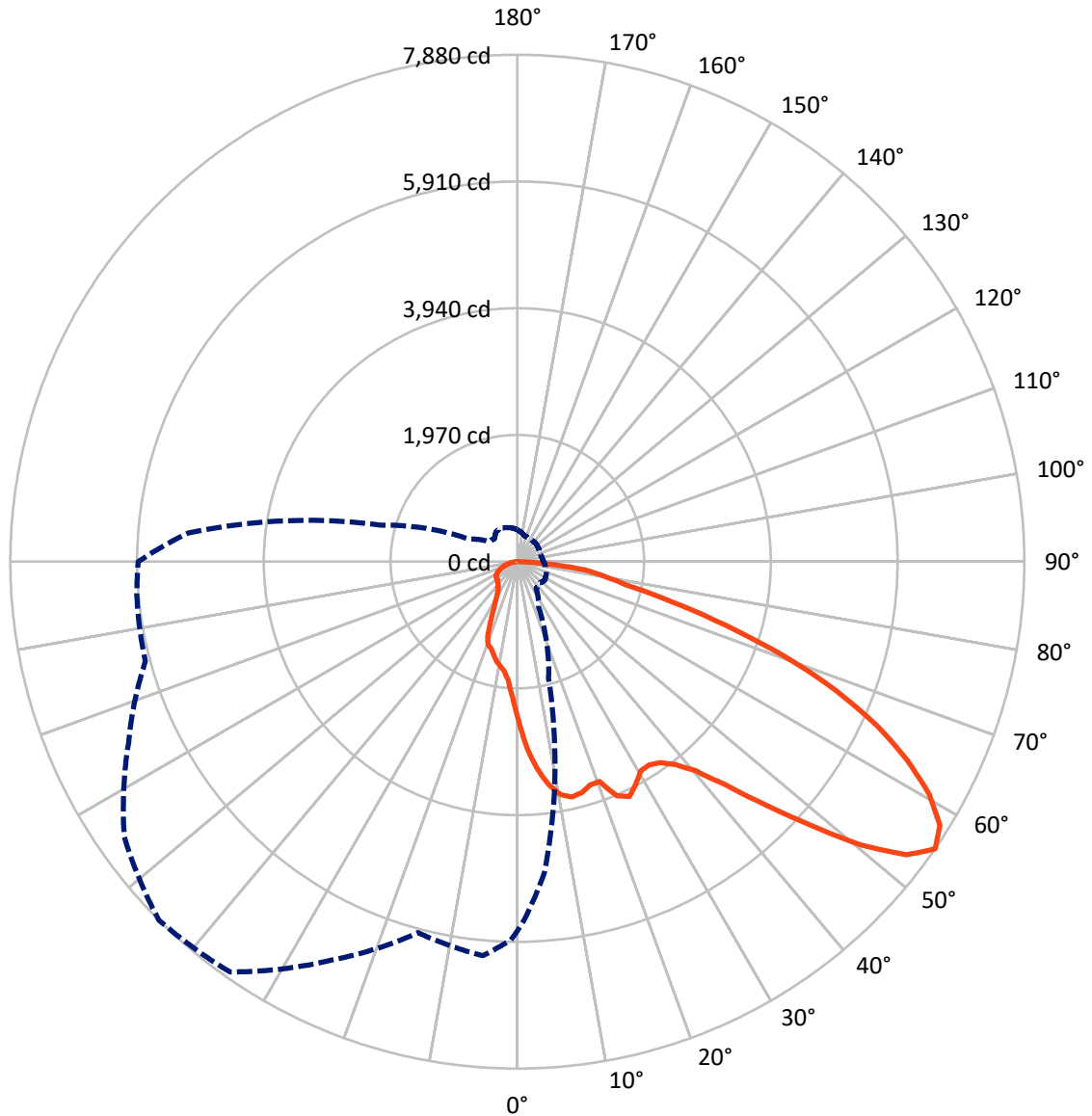
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	2157.5	0.0	2157.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7705.5	0.0	7705.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	9863.0	0.0	9863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	2.1
10°-20°	556.6	5.6
20°-30°	961.5	9.7
30°-40°	1117.4	11.3
40°-50°	1559.0	15.8
50°-60°	2115.4	21.4
60°-70°	2012.5	20.4
70°-80°	1087.2	11.0
80°-90°	243.7	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°	9863.0	100.0
0°-180°	9863.0	100.0

Coefficient of Utilization



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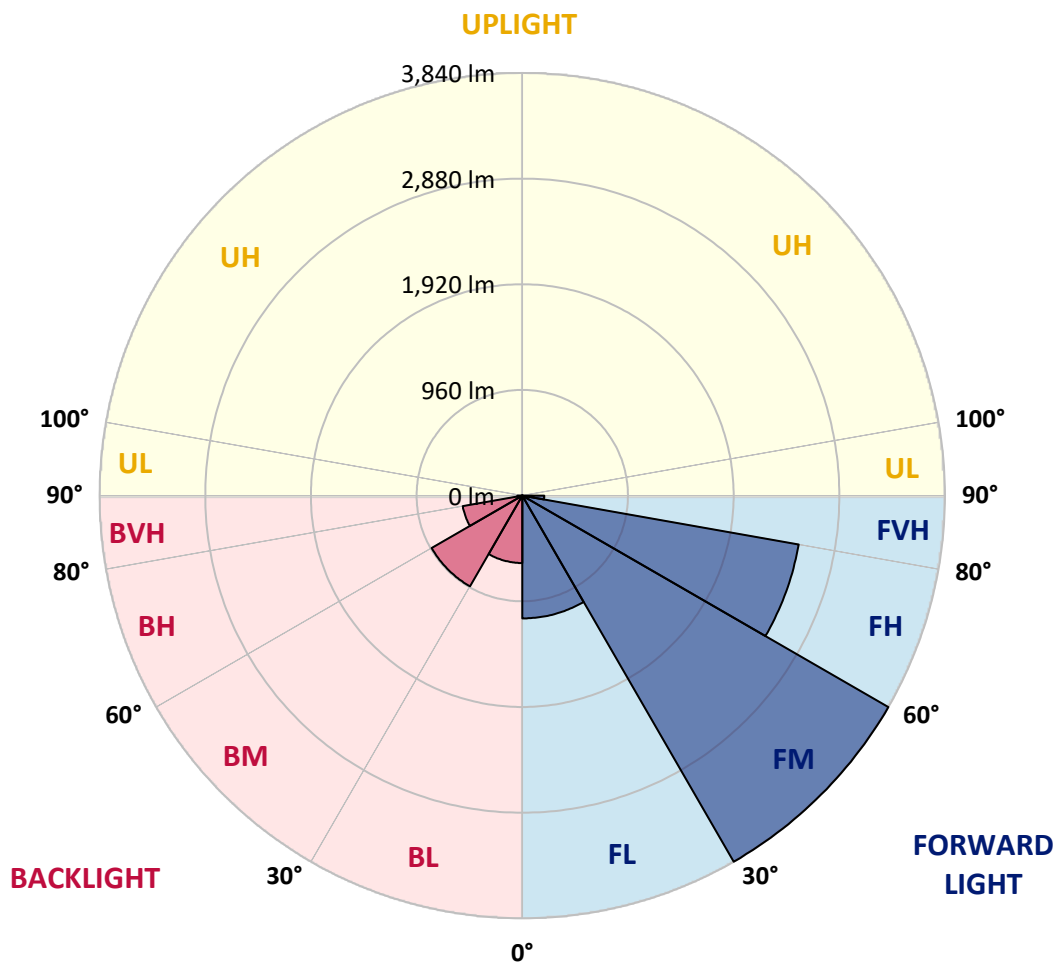
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1115.5	11.3			
FM	(30°-60°)	3840.4	38.9			
FH	(60°-80°)	2550.4	25.9			G2/5000
FVH	(80°-90°)	199.1	2.0			G2/225
BL	(0°-30°)	612.3	6.2	B2/1000		
BM	(30°-60°)	951.3	9.6	B1/1000		
BH	(60°-80°)	549.3	5.6	B2/1000		G2/1000
BVH	(80°-90°)	44.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2
2.5°	2749.8	2739.4	2710.1	2633.3	2555.9	2477.2	2416.7	2341.2	2262.5	2220.2	2166.1
5°	2787.6	2775.8	2706.9	2533.8	2377.0	2212.3	2080.9	1965.7	1918.9	1849.9	1794.6
7.5°	2699.1	2693.9	2590.4	2341.8	2127.1	1911.7	1762.7	1670.3	1586.4	1555.2	1561.7
10°	2618.4	2597.6	2468.1	2143.4	1892.9	1717.8	1611.1	1520.7	1461.5	1445.8	1449.1
12.5°	2551.4	2523.4	2370.5	2010.0	1790.7	1650.8	1514.8	1420.5	1366.5	1381.4	1432.2
15°	2537.7	2500.0	2329.5	1964.4	1734.7	1554.5	1405.5	1296.8	1256.5	1289.0	1370.4
17.5°	2626.2	2578.7	2399.7	1979.4	1681.4	1456.2	1273.4	1149.1	1115.3	1167.3	1273.4
20°	2910.5	2840.3	2619.0	2065.9	1676.2	1407.4	1196.6	1071.7	1086.0	1184.9	1295.5
22.5°	3436.3	3330.9	3002.9	2192.2	1703.5	1395.1	1181.0	1115.9	1194.7	1278.6	1351.5
25°	3540.4	3457.8	3071.9	2220.8	1697.7	1386.6	1225.3	1257.8	1345.6	1387.3	1361.9
27.5°	3599.0	3504.6	3067.4	2079.0	1518.1	1257.8	1171.2	1225.3	1247.4	1207.0	1138.1
30°	3735.6	3637.4	3144.8	1929.9	1250.0	933.1	817.9	795.8	810.8	818.6	793.8
32.5°	3923.7	3826.7	3290.5	1832.3	1080.8	771.7	658.5	627.3	620.1	611.6	601.9
35°	4167.0	4018.0	3433.7	1769.9	1011.2	713.8	609.7	585.6	575.9	564.1	553.7
37.5°	4414.3	4258.1	3614.6	1704.2	965.0	673.5	577.2	566.1	549.2	536.8	521.9
40°	4677.2	4502.1	3779.2	1646.9	920.1	647.4	553.7	552.4	530.3	516.0	498.4
42.5°	4904.9	4724.7	3926.3	1611.8	885.6	620.1	539.4	543.3	520.6	499.1	476.3
45°	5085.8	4908.8	4062.3	1611.8	857.6	592.8	536.8	534.2	511.4	484.8	458.7
47.5°	5244.6	5061.7	4195.0	1652.8	840.0	570.0	522.5	527.1	503.6	469.8	444.4
50°	5367.5	5206.2	4373.9	1716.5	822.5	551.8	504.3	529.0	497.1	462.0	432.7
52.5°	5524.4	5379.9	4589.3	1803.7	807.5	531.6	488.0	529.0	496.5	462.6	430.8
55°	5741.7	5589.4	4848.9	1875.9	783.4	512.7	473.7	514.0	494.5	459.4	425.6
57.5°	5894.0	5780.1	5032.4	1924.1	748.9	488.7	460.7	499.7	486.1	447.0	409.9
58°	5901.1	5789.8	5059.1	1935.2	740.5	484.1	457.4	493.2	482.2	441.8	404.7
60°	5819.1	5723.5	5064.3	1919.5	692.3	461.3	440.5	466.5	461.3	411.2	376.7
62.5°	5521.1	5419.0	4854.2	1792.7	628.6	433.4	414.5	430.8	419.0	368.3	336.4
65°	5097.5	4909.5	4422.1	1593.5	583.0	403.4	379.4	380.7	368.3	331.9	303.9
67.5°	4533.4	4323.2	3744.1	1343.0	548.5	370.2	337.7	334.5	319.5	296.1	273.3
70°	3839.1	3695.3	3042.6	1092.5	510.1	333.8	290.9	288.9	279.8	262.2	242.1
72.5°	3111.6	2928.8	2457.0	874.5	463.3	298.7	247.3	251.2	239.5	227.1	208.9
75°	2296.3	2176.6	1899.4	701.4	400.2	260.3	206.3	207.6	202.4	189.4	175.0
77.5°	1512.2	1476.4	1358.6	460.7	307.8	206.9	168.5	169.8	165.9	154.2	139.2
80°	1017.7	993.6	920.7	296.7	205.6	149.7	130.1	131.4	130.8	118.4	98.3
82.5°	627.3	616.9	593.4	200.4	142.5	107.4	85.9	89.8	97.0	83.3	67.0
85°	296.1	296.7	358.5	109.3	83.9	69.0	46.8	50.1	50.1	50.1	37.7
87.5°	38.4	40.3	49.5	46.2	30.6	26.0	16.9	14.3	12.4	16.3	11.7
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°	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2
2.5°	2147.3	2134.3	2106.3	2099.8	2095.9	2106.9	2077.7	2085.5	2072.5	2108.9	2103.0
5°	1797.9	1799.2	1821.9	1836.9	1842.1	1836.9	1817.4	1783.5	1757.5	1747.1	1749.7
7.5°	1549.3	1572.1	1611.1	1654.7	1694.4	1706.1	1695.0	1630.6	1560.4	1516.1	1501.8
10°	1466.7	1497.2	1542.1	1576.6	1611.8	1639.7	1645.6	1595.5	1512.2	1407.4	1366.5
12.5°	1471.2	1512.9	1555.8	1566.9	1563.6	1574.7	1569.5	1561.0	1506.3	1373.0	1304.6
15°	1428.3	1477.7	1507.7	1501.8	1491.4	1481.6	1468.0	1446.5	1427.0	1333.3	1257.8
17.5°	1329.4	1380.1	1404.8	1406.8	1406.8	1404.2	1371.0	1363.2	1360.6	1315.0	1268.8
20°	1347.6	1375.6	1364.5	1346.3	1351.5	1369.1	1349.5	1345.6	1360.6	1380.8	1372.3
22.5°	1358.0	1348.2	1264.9	1184.3	1166.0	1220.7	1231.8	1275.4	1335.9	1408.7	1456.2
25°	1293.6	1214.8	1065.8	974.7	923.3	974.1	1040.5	1121.1	1211.6	1305.3	1360.6
27.5°	1081.4	1021.6	914.9	832.9	788.0	795.8	852.4	925.9	1009.9	1073.0	1113.3
30°	814.7	788.0	732.7	704.7	677.4	670.9	694.9	722.9	760.0	767.8	778.2
32.5°	599.9	596.0	599.3	590.2	585.0	584.3	577.2	583.7	587.6	592.1	583.0
35°	542.7	537.5	528.4	525.8	522.5	523.8	520.6	517.3	519.9	523.8	526.4
37.5°	513.4	505.6	492.6	488.0	488.0	490.0	484.8	483.5	488.0	500.4	506.9
40°	490.6	481.5	466.5	460.7	464.6	469.8	462.6	460.0	471.1	484.1	494.5
42.5°	469.1	462.0	447.7	441.2	444.4	454.2	443.8	441.8	456.1	470.4	482.8
45°	450.9	443.8	430.8	427.5	428.8	437.9	430.8	430.8	444.4	460.0	471.1
47.5°	436.6	427.5	419.0	416.4	417.7	422.9	421.6	421.6	434.7	450.9	462.0
50°	422.3	414.5	403.4	404.7	408.0	415.1	414.5	416.4	429.5	449.6	461.3
52.5°	415.8	404.1	391.7	393.0	402.8	411.2	408.6	410.6	425.6	463.3	480.2
55°	408.6	393.0	378.7	380.7	391.7	404.1	400.8	403.4	421.0	472.4	495.8
57.5°	395.0	376.7	361.1	362.4	378.7	391.7	386.5	389.8	410.6	462.6	487.4
58°	389.1	373.5	358.5	359.2	374.8	389.1	383.3	385.9	407.3	460.0	483.5
60°	364.4	355.3	342.3	342.9	357.9	370.2	367.0	369.6	390.4	441.2	458.7
62.5°	330.6	325.3	322.1	322.1	331.2	342.9	346.2	349.4	368.3	398.9	414.5
65°	294.1	294.1	294.8	294.8	300.6	315.6	317.5	326.0	343.6	358.5	370.2
67.5°	269.4	268.1	269.4	266.1	268.7	277.8	287.6	295.4	313.6	324.0	327.9
70°	237.5	236.9	237.5	232.9	236.2	244.0	250.5	263.5	282.4	290.2	292.2
72.5°	206.3	206.3	207.6	204.3	204.3	212.8	217.3	231.6	249.2	253.8	254.4
75°	173.7	175.7	175.7	171.1	172.4	177.6	183.5	195.2	211.5	214.7	214.7
77.5°	137.9	145.1	145.1	140.5	142.5	143.2	151.0	156.8	169.2	170.5	165.3
80°	100.2	107.4	113.2	109.3	112.6	108.7	113.2	117.1	129.5	123.6	115.2
82.5°	71.6	76.8	81.3	82.0	78.7	71.6	77.4	78.1	83.9	76.1	71.6
85°	39.7	44.2	50.1	47.5	42.3	37.7	39.7	41.0	40.3	38.4	35.8
87.5°	10.4	11.1	12.4	9.1	8.5	7.2	9.8	9.8	11.1	11.7	11.1
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°	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2
2.5°	2107.6	2136.2	2198.0	2244.9	2302.1	2371.8	2453.8	2536.4	2625.5	2653.5	2692.6
5°	1743.9	1815.4	1845.4	1930.6	2015.2	2142.1	2277.4	2434.2	2606.0	2688.7	2768.0
7.5°	1490.1	1528.5	1559.7	1622.2	1723.7	1877.9	2047.7	2243.6	2486.9	2607.3	2723.8
10°	1353.4	1357.3	1395.7	1473.2	1561.7	1697.7	1858.4	2077.7	2349.0	2495.4	2632.0
12.5°	1263.0	1246.1	1287.7	1368.4	1468.6	1594.2	1741.9	1950.8	2249.4	2399.7	2565.0
15°	1183.6	1156.9	1188.2	1270.8	1369.7	1517.4	1676.2	1897.4	2210.4	2385.4	2568.9
17.5°	1185.6	1112.0	1123.1	1192.7	1291.0	1441.3	1633.9	1895.5	2269.6	2471.3	2688.7
20°	1332.0	1214.2	1164.1	1177.1	1272.1	1436.1	1653.4	1986.6	2464.2	2758.3	2990.6
22.5°	1475.8	1404.8	1324.2	1297.5	1349.5	1521.3	1777.7	2201.9	2887.1	3330.2	3749.9
25°	1425.7	1486.2	1466.0	1428.3	1440.0	1582.5	1862.3	2378.9	3215.7	3714.8	4109.1
27.5°	1140.7	1250.6	1272.8	1272.1	1276.7	1393.8	1674.9	2259.8	3256.7	3788.3	4165.1
30°	801.7	811.4	823.1	845.9	866.7	971.5	1310.5	1984.0	3238.5	3821.5	4198.9
32.5°	578.5	591.5	607.7	639.0	688.4	821.8	1146.5	1896.1	3334.8	3958.8	4297.8
35°	529.0	544.0	559.6	595.4	642.2	765.9	1081.4	1859.7	3492.9	4181.3	4475.5
37.5°	513.4	530.3	544.0	570.0	607.7	725.5	1022.2	1834.9	3654.9	4416.9	4713.6
40°	502.3	521.9	532.9	553.7	579.8	688.4	969.5	1815.4	3811.7	4632.3	4904.9
42.5°	492.6	512.7	527.1	542.0	563.5	655.2	922.7	1795.9	3947.7	4841.1	5095.6
45°	480.9	506.2	524.5	536.2	555.0	627.3	886.9	1780.3	4102.6	5026.6	5288.2
47.5°	471.1	499.1	521.9	535.5	542.7	607.7	858.3	1801.8	4288.7	5220.5	5467.1
50°	471.8	498.4	527.1	548.5	529.7	591.5	840.7	1887.0	4530.8	5450.8	5608.3
52.5°	492.6	525.1	547.9	553.1	511.4	572.0	831.6	2036.0	4817.1	5654.5	5750.8
55°	516.0	549.8	574.6	571.3	501.7	547.2	829.6	2194.8	5130.7	5892.0	5936.3
57.5°	507.5	557.0	594.7	577.8	502.3	523.2	821.2	2323.0	5392.9	6069.6	6119.7
58°	504.9	554.4	597.3	576.5	500.4	516.0	819.2	2334.0	5429.4	6082.0	6145.8
60°	479.6	531.6	595.4	566.8	489.3	496.5	797.7	2369.8	5419.6	6018.2	6161.4
62.5°	433.4	476.3	550.5	519.3	455.5	470.4	749.6	2325.6	5155.4	5711.1	5933.0
65°	381.3	413.2	462.6	456.8	407.3	443.8	683.9	2150.5	4626.4	5212.7	5446.3
67.5°	342.3	368.3	399.5	391.1	366.3	408.0	613.0	1854.5	4033.0	4614.0	4908.2
70°	302.6	322.7	338.4	332.5	324.7	372.8	549.8	1505.0	3464.3	4045.3	4330.3
72.5°	262.2	281.1	294.1	285.7	281.1	335.8	498.4	1168.0	2736.2	3337.4	3703.7
75°	219.3	238.2	247.3	237.5	234.9	296.1	422.3	872.6	2052.9	2572.8	2889.1
77.5°	169.8	190.0	201.7	198.5	199.8	243.4	341.0	597.3	1468.0	1753.6	2086.8
80°	119.1	141.2	149.0	145.8	154.9	185.4	240.8	379.4	1012.5	1138.1	1373.0
82.5°	73.5	94.4	95.7	98.9	105.4	137.3	181.5	231.0	635.7	657.2	827.7
85°	37.1	44.9	48.2	53.4	59.2	83.9	103.5	143.2	409.3	309.7	462.6
87.5°	12.4	13.0	15.6	19.5	24.1	34.5	44.2	58.6	101.5	56.0	143.2
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-SA2B-760-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2
2.5°	2771.3	2826.6	2866.9	2904.0	2868.2	2865.0	2829.9	2773.2	2749.8	2749.8
5°	2934.6	3064.1	3168.9	3235.9	3207.3	3138.3	3024.4	2879.3	2801.2	2787.6
7.5°	2979.5	3235.2	3429.8	3498.8	3450.6	3298.4	3080.4	2835.7	2723.8	2699.1
10°	2952.2	3284.7	3570.3	3679.7	3612.6	3382.3	3084.9	2785.0	2647.0	2618.4
12.5°	2923.6	3291.2	3596.4	3754.5	3710.9	3450.0	3118.1	2751.8	2592.4	2551.4
15°	2944.4	3293.8	3564.5	3727.8	3755.8	3531.3	3172.8	2775.8	2581.3	2537.7
17.5°	3075.8	3343.2	3518.9	3651.0	3749.3	3641.9	3328.3	2891.0	2680.2	2626.2
20°	3350.4	3461.7	3545.0	3647.1	3805.2	3867.7	3646.5	3207.3	2958.0	2910.5
22.5°	4145.6	4125.4	3954.9	3952.9	4182.0	4432.5	4417.5	3850.1	3475.3	3436.3
25°	4443.6	4349.9	4103.3	4043.4	4144.2	4530.8	4474.8	3981.6	3635.4	3540.4
27.5°	4327.1	4094.8	3932.8	3919.1	3885.9	4251.0	4385.7	4034.9	3691.4	3599.0
30°	4319.9	3978.3	3746.7	3774.0	3805.9	4154.7	4435.1	4202.2	3834.5	3735.6
32.5°	4337.5	3994.6	3760.3	3765.5	3860.5	4169.0	4489.8	4384.4	4022.6	3923.7
35°	4408.4	4087.0	3847.5	3835.2	3983.5	4262.7	4582.8	4670.7	4279.6	4167.0
37.5°	4523.0	4271.1	4007.0	4003.7	4219.1	4431.9	4698.6	4959.6	4535.3	4414.3
40°	4691.5	4486.5	4290.7	4273.1	4539.2	4707.1	4848.9	5267.3	4832.7	4677.2
42.5°	4895.1	4744.8	4664.8	4734.4	4990.1	5016.2	5083.2	5551.7	5085.8	4904.9
45°	5083.8	5076.7	5188.0	5372.8	5521.8	5365.6	5327.9	5742.3	5282.3	5085.8
47.5°	5308.3	5502.2	5838.0	6108.7	6264.9	5772.3	5536.7	5866.6	5425.5	5244.6
50°	5536.1	6011.7	6547.9	6925.3	6958.5	6214.1	5680.5	5983.8	5555.6	5367.5
52.5°	5775.5	6418.4	7132.2	7570.8	7506.4	6598.7	5819.8	6063.1	5689.6	5524.4
55°	5983.8	6667.6	7458.9	7879.9	7785.5	6832.9	5970.1	6149.0	5880.9	5741.7
57.5°	6100.2	6688.5	7377.5	7745.2	7643.0	6787.4	6039.1	6212.8	6003.3	5894.0
58°	6117.1	6660.5	7305.3	7667.1	7563.0	6749.0	6038.4	6210.2	6011.1	5901.1
60°	6102.2	6478.9	7036.6	7358.7	7249.3	6508.2	6013.7	6161.4	5912.2	5819.1
62.5°	5963.6	6164.0	6572.6	6806.9	6775.6	6132.1	5912.2	5977.2	5610.9	5521.1
65°	5781.4	5734.5	5978.5	6144.5	6167.9	5850.4	5811.3	5579.0	5224.4	5097.5
67.5°	5560.2	5247.8	5247.2	5341.5	5380.6	5417.0	5601.1	5146.3	4667.4	4533.4
70°	5184.7	4497.6	4290.7	4401.9	4369.4	4677.2	5225.7	4538.6	3995.9	3839.1
72.5°	4496.3	3569.0	3237.8	3381.0	3299.0	3667.9	4572.4	3735.0	3304.2	3111.6
75°	3644.5	2669.8	2328.2	2459.6	2408.9	2782.4	3804.6	2712.7	2369.8	2296.3
77.5°	2829.9	1934.5	1736.0	1717.8	1755.6	2070.5	2790.8	1831.7	1562.3	1512.2
80°	1818.0	1384.7	1396.4	1373.0	1392.5	1305.3	1694.4	1168.6	1058.0	1017.7
82.5°	1196.6	965.0	1150.4	1061.9	1008.6	877.8	1111.4	765.2	649.4	627.3
85°	815.3	710.6	646.8	494.5	582.4	676.1	833.5	411.9	326.6	296.1
87.5°	368.3	247.3	181.5	111.9	177.0	204.3	404.7	48.2	37.1	38.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)