

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: P455889

Luminaire Tested: **GALN-SA7A-760-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455889  
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-SA7A-760-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 615mA 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: 27456 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

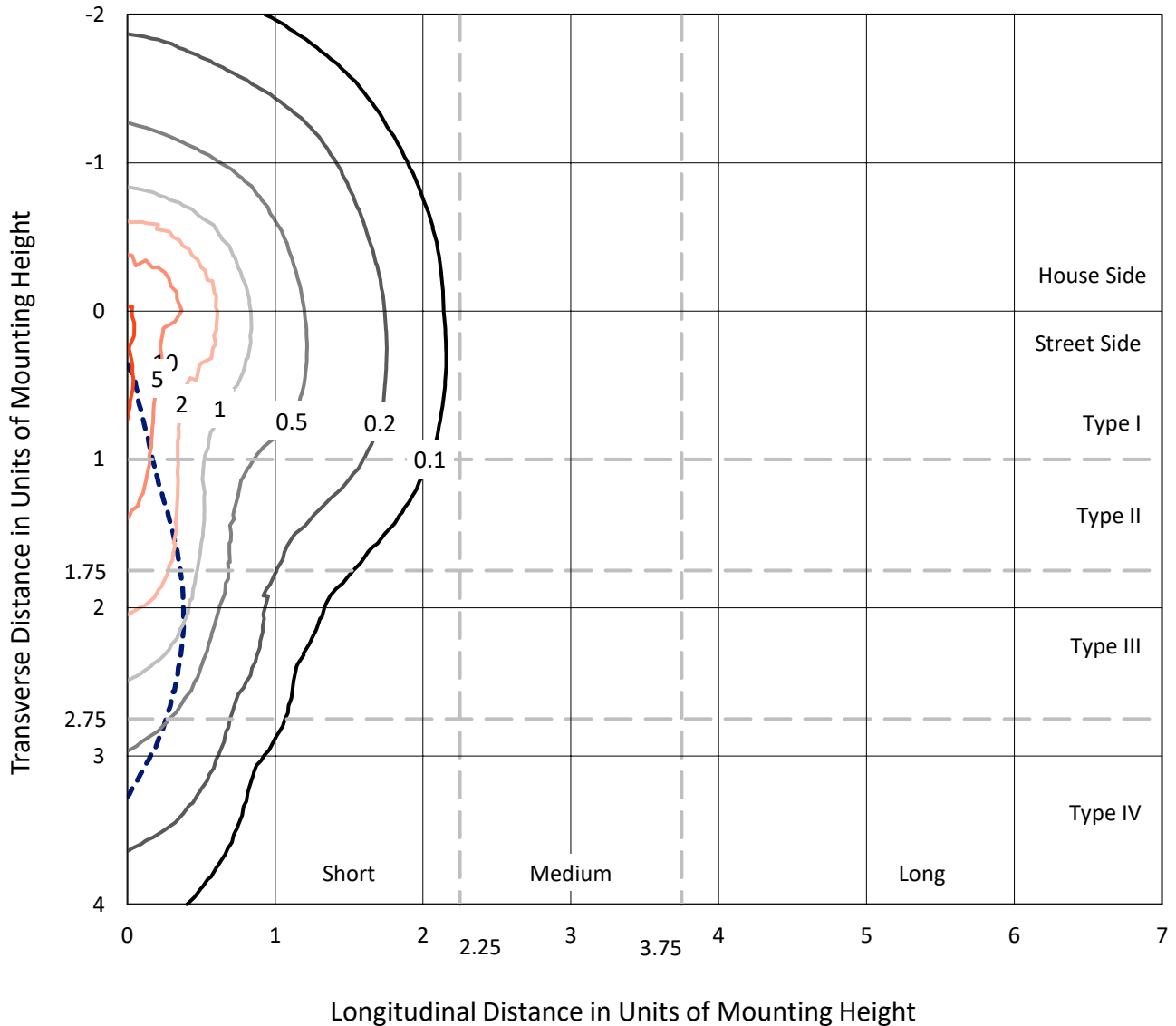
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

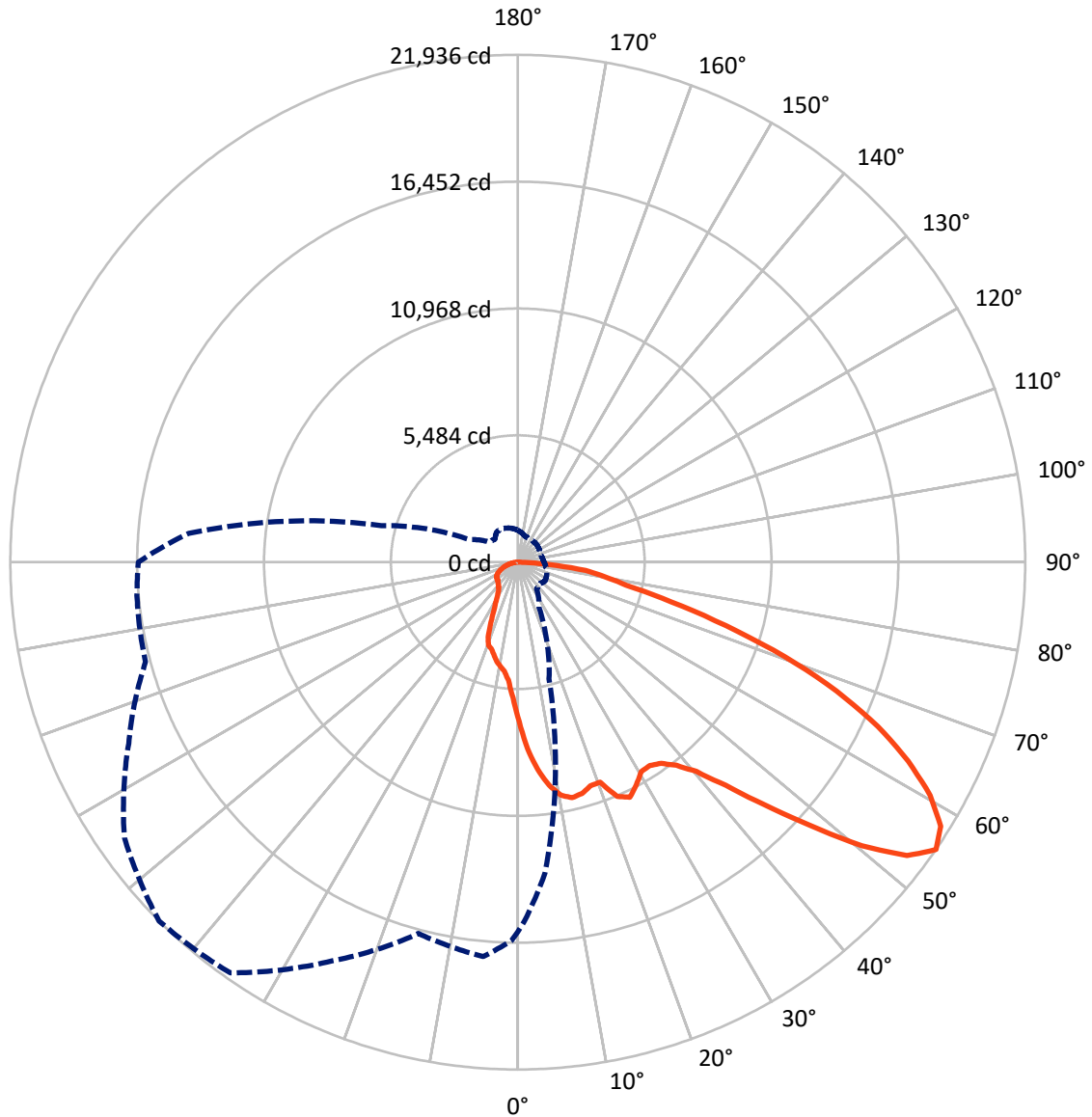
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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
<b>House Side</b>	Lumens	6005.9	0.0	6005.9
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	21450.1	0.0	21450.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	27456.0	0.0	27456.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	584.0	2.1
10°-20°	1549.3	5.6
20°-30°	2676.5	9.7
30°-40°	3110.5	11.3
40°-50°	4339.8	15.8
50°-60°	5888.6	21.4
60°-70°	5602.4	20.4
70°-80°	3026.5	11.0
80°-90°	678.3	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°	27456.0	100.0
0°-180°	27456.0	100.0

**Coefficient of Utilization**



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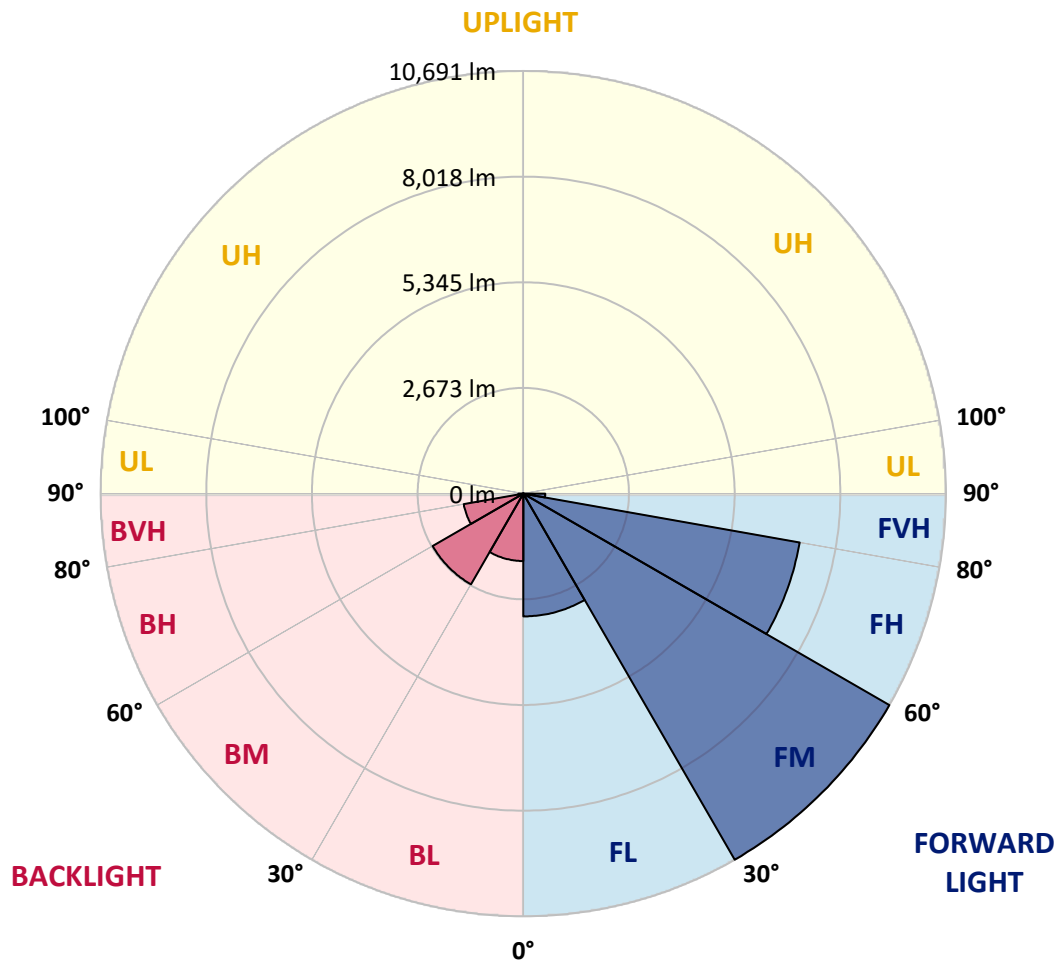
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3105.3	11.3			
FM	(30°-60°)	10690.8	38.9			
FH	(60°-80°)	7099.7	25.9			G3/7500
FVH	(80°-90°)	554.3	2.0			G4/750
BL	(0°-30°)	1704.5	6.2	B3/2500		
BM	(30°-60°)	2648.2	9.6	B3/5000		
BH	(60°-80°)	1529.2	5.6	B3/2500		G3/2500
BVH	(80°-90°)	124.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4
2.5°	7654.8	7625.8	7544.3	7330.5	7115.0	6895.8	6727.4	6517.2	6298.1	6180.3	6030.0
5°	7759.8	7727.2	7535.2	7053.4	6616.9	6158.6	5792.7	5472.1	5341.7	5149.7	4995.7
7.5°	7513.5	7499.0	7211.0	6519.1	5921.3	5321.8	4907.0	4649.7	4416.1	4329.1	4347.2
10°	7288.9	7230.9	6870.5	5966.6	5269.2	4782.0	4484.9	4233.1	4068.3	4024.8	4033.9
12.5°	7102.3	7024.4	6598.8	5595.3	4984.8	4595.4	4216.8	3954.2	3803.8	3845.5	3986.8
15°	7064.3	6959.2	6484.6	5468.5	4829.1	4327.3	3912.5	3610.0	3497.7	3588.3	3814.7
17.5°	7310.6	7178.4	6680.3	5510.1	4680.5	4053.8	3544.8	3198.8	3104.7	3249.6	3544.8
20°	8102.2	7906.6	7290.7	5751.0	4666.0	3918.0	3331.1	2983.3	3023.1	3298.5	3606.4
22.5°	9565.8	9272.3	8359.4	6102.4	4742.1	3883.5	3287.6	3106.5	3325.6	3559.3	3762.2
25°	9855.6	9625.5	8551.4	6182.1	4725.8	3860.0	3410.8	3501.3	3745.9	3861.8	3791.2
27.5°	10018.6	9755.9	8538.7	5787.3	4225.9	3501.3	3260.4	3410.8	3472.4	3360.1	3168.1
30°	10399.0	10125.5	8754.3	5372.5	3479.6	2597.5	2276.9	2215.3	2256.9	2278.7	2209.8
32.5°	10922.5	10652.6	9160.0	5100.8	3008.7	2148.3	1833.1	1746.1	1726.2	1702.7	1675.5
35°	11599.9	11185.1	9558.5	4926.9	2814.8	1987.1	1697.2	1630.2	1603.0	1570.4	1541.5
37.5°	12288.2	11853.5	10062.1	4743.9	2686.2	1874.7	1606.7	1575.9	1528.8	1494.4	1452.7
40°	13020.0	12532.7	10520.3	4584.5	2561.3	1802.3	1541.5	1537.8	1476.3	1436.4	1387.5
42.5°	13654.0	13152.2	10929.7	4486.7	2465.3	1726.2	1501.6	1512.5	1449.1	1389.3	1325.9
45°	14157.5	13664.8	11308.3	4486.7	2387.4	1650.1	1494.4	1487.1	1423.7	1349.5	1277.0
47.5°	14599.5	14090.5	11677.8	4600.8	2338.5	1586.7	1454.5	1467.2	1402.0	1307.8	1237.2
50°	14941.8	14492.6	12175.9	4778.3	2289.5	1536.0	1403.8	1472.6	1383.9	1286.1	1204.5
52.5°	15378.4	14976.3	12775.5	5021.1	2247.9	1479.9	1358.5	1472.6	1382.1	1287.9	1199.1
55°	15983.4	15559.5	13498.2	5222.1	2180.9	1427.3	1318.7	1431.0	1376.6	1278.8	1184.6
57.5°	16407.2	16090.2	14009.0	5356.2	2084.9	1360.3	1282.4	1391.1	1353.1	1244.4	1141.2
58°	16427.2	16117.4	14083.3	5387.0	2061.3	1347.6	1273.4	1373.0	1342.2	1229.9	1126.7
60°	16198.9	15932.7	14097.8	5343.5	1927.3	1284.2	1226.3	1298.7	1284.2	1144.8	1048.8
62.5°	15369.3	15084.9	13512.7	4990.3	1749.8	1206.4	1153.8	1199.1	1166.5	1025.2	936.5
65°	14190.1	13666.7	12309.9	4436.0	1623.0	1123.0	1056.0	1059.6	1025.2	923.8	845.9
67.5°	12619.7	12034.6	10422.5	3738.6	1527.0	1030.7	940.1	931.0	889.4	824.2	760.8
70°	10687.0	10286.7	8469.9	3041.3	1420.1	929.2	809.7	804.2	778.9	730.0	673.8
72.5°	8661.9	8152.9	6839.7	2434.5	1289.7	831.4	688.3	699.2	666.6	632.2	581.4
75°	6392.3	6059.0	5287.3	1952.6	1114.0	724.5	574.2	577.8	563.3	527.1	487.3
77.5°	4209.6	4110.0	3782.1	1282.4	856.8	576.0	469.1	472.8	461.9	429.3	387.6
80°	2833.0	2765.9	2563.1	826.0	572.4	416.6	362.3	365.9	364.1	329.7	273.5
82.5°	1746.1	1717.2	1652.0	557.9	396.7	298.9	239.1	250.0	269.9	231.9	186.6
85°	824.2	826.0	998.1	304.3	233.7	192.0	130.4	139.5	139.5	139.5	105.1
87.5°	106.9	112.3	137.7	128.6	85.1	72.5	47.1	39.8	34.4	45.3	32.6
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°	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4
2.5°	5977.5	5941.2	5863.3	5845.2	5834.4	5865.2	5783.6	5805.4	5769.2	5870.6	5854.3
5°	5004.8	5008.4	5071.8	5113.4	5127.9	5113.4	5059.1	4964.9	4892.5	4863.5	4870.7
7.5°	4312.8	4376.2	4484.9	4606.3	4716.8	4749.4	4718.6	4539.2	4343.6	4220.5	4180.6
10°	4082.8	4167.9	4292.9	4388.9	4486.7	4564.6	4580.9	4441.4	4209.6	3918.0	3803.8
12.5°	4095.5	4211.4	4330.9	4361.7	4352.7	4383.5	4369.0	4345.4	4193.3	3822.0	3631.8
15°	3975.9	4113.6	4196.9	4180.6	4151.6	4124.4	4086.4	4026.6	3972.3	3711.5	3501.3
17.5°	3700.6	3841.9	3910.7	3916.1	3916.1	3908.9	3816.5	3794.8	3787.5	3660.7	3532.1
20°	3751.3	3829.2	3798.4	3747.7	3762.2	3811.1	3756.7	3745.9	3787.5	3843.7	3820.1
22.5°	3780.3	3753.1	3521.3	3296.7	3245.9	3398.1	3428.9	3550.3	3718.7	3921.6	4053.8
25°	3601.0	3381.8	2967.0	2713.4	2570.3	2711.6	2896.4	3121.0	3372.7	3633.6	3787.5
27.5°	3010.5	2843.8	2546.8	2318.5	2193.5	2215.3	2372.9	2577.6	2811.2	2986.9	3099.2
30°	2267.8	2193.5	2039.6	1961.7	1885.6	1867.5	1934.5	2012.4	2115.7	2137.4	2166.4
32.5°	1670.1	1659.2	1668.3	1642.9	1628.4	1626.6	1606.7	1624.8	1635.7	1648.3	1623.0
35°	1510.7	1496.2	1470.8	1463.6	1454.5	1458.1	1449.1	1440.0	1447.3	1458.1	1465.4
37.5°	1429.2	1407.4	1371.2	1358.5	1358.5	1363.9	1349.5	1345.8	1358.5	1392.9	1411.0
40°	1365.8	1340.4	1298.7	1282.4	1293.3	1307.8	1287.9	1280.6	1311.4	1347.6	1376.6
42.5°	1306.0	1286.1	1246.2	1228.1	1237.2	1264.3	1235.3	1229.9	1269.8	1309.6	1344.0
45°	1255.3	1235.3	1199.1	1190.1	1193.7	1219.0	1199.1	1199.1	1237.2	1280.6	1311.4
47.5°	1215.4	1190.1	1166.5	1159.3	1162.9	1177.4	1173.8	1173.8	1210.0	1255.3	1286.1
50°	1175.6	1153.8	1123.0	1126.7	1135.7	1155.6	1153.8	1159.3	1195.5	1251.6	1284.2
52.5°	1157.5	1124.8	1090.4	1094.1	1121.2	1144.8	1137.5	1143.0	1184.6	1289.7	1336.8
55°	1137.5	1094.1	1054.2	1059.6	1090.4	1124.8	1115.8	1123.0	1171.9	1315.0	1380.3
57.5°	1099.5	1048.8	1005.3	1008.9	1054.2	1090.4	1075.9	1085.0	1143.0	1287.9	1356.7
58°	1083.2	1039.7	998.1	999.9	1043.3	1083.2	1066.9	1074.1	1133.9	1280.6	1345.8
60°	1014.4	989.0	952.8	954.6	996.2	1030.7	1021.6	1028.8	1086.8	1228.1	1277.0
62.5°	920.2	905.7	896.6	896.6	922.0	954.6	963.6	972.7	1025.2	1110.4	1153.8
65°	818.7	818.7	820.5	820.5	836.8	878.5	883.9	907.5	956.4	998.1	1030.7
67.5°	749.9	746.3	749.9	740.8	748.1	773.4	800.6	822.4	873.1	902.1	912.9
70°	661.1	659.3	661.1	648.5	657.5	679.3	697.4	733.6	786.1	807.9	813.3
72.5°	574.2	574.2	577.8	568.8	568.8	592.3	605.0	644.8	693.7	706.4	708.2
75°	483.6	489.1	489.1	476.4	480.0	494.5	510.8	543.4	588.7	597.7	597.7
77.5°	384.0	403.9	403.9	391.3	396.7	398.5	420.2	436.5	471.0	474.6	460.1
80°	278.9	298.9	315.2	304.3	313.4	302.5	315.2	326.0	360.5	344.2	320.6
82.5°	199.2	213.7	226.4	228.2	219.2	199.2	215.6	217.4	233.7	211.9	199.2
85°	110.5	123.2	139.5	132.2	117.7	105.1	110.5	114.1	112.3	106.9	99.6
87.5°	29.0	30.8	34.4	25.4	23.5	19.9	27.2	27.2	30.8	32.6	30.8
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°	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4
2.5°	5867.0	5946.7	6118.7	6249.2	6408.6	6602.4	6830.6	7060.7	7308.8	7386.7	7495.4
5°	4854.4	5053.7	5137.0	5374.3	5609.8	5963.0	6339.7	6776.3	7254.5	7484.5	7705.5
7.5°	4148.0	4254.9	4341.8	4515.7	4798.3	5227.6	5700.3	6245.5	6923.0	7258.1	7582.3
10°	3767.6	3778.5	3885.4	4100.9	4347.2	4725.8	5173.2	5783.6	6539.0	6946.5	7326.9
12.5°	3515.8	3468.7	3584.7	3809.3	4088.2	4437.8	4849.0	5430.4	6261.8	6680.3	7140.4
15°	3294.8	3220.6	3307.5	3537.6	3812.9	4224.1	4666.0	5281.9	6153.2	6640.4	7151.2
17.5°	3300.3	3095.6	3126.4	3320.2	3593.7	4012.1	4548.3	5276.5	6318.0	6879.5	7484.5
20°	3707.8	3380.0	3240.5	3276.7	3541.2	3997.7	4602.6	5530.1	6859.6	7678.3	8325.0
22.5°	4108.1	3910.7	3686.1	3611.8	3756.7	4234.9	4948.6	6129.6	8037.0	9270.5	10438.8
25°	3968.7	4137.1	4081.0	3975.9	4008.5	4405.2	5184.1	6622.3	8951.7	10341.0	11438.7
27.5°	3175.3	3481.4	3543.0	3541.2	3553.9	3879.9	4662.4	6290.8	9065.8	10545.7	11594.5
30°	2231.6	2258.8	2291.4	2354.8	2412.7	2704.3	3648.1	5522.8	9015.1	10638.1	11688.7
32.5°	1610.3	1646.5	1691.8	1778.7	1916.4	2287.7	3191.6	5278.3	9283.2	11020.3	11964.0
35°	1472.6	1514.3	1557.8	1657.4	1787.8	2132.0	3010.5	5176.8	9723.3	11639.7	12458.5
37.5°	1429.2	1476.3	1514.3	1586.7	1691.8	2019.7	2845.6	5108.0	10174.4	12295.5	13121.4
40°	1398.4	1452.7	1483.5	1541.5	1613.9	1916.4	2698.9	5053.7	10610.9	12895.0	13654.0
42.5°	1371.2	1427.3	1467.2	1508.9	1568.6	1824.0	2568.5	4999.3	10989.5	13476.5	14184.7
45°	1338.6	1409.2	1459.9	1492.6	1545.1	1746.1	2468.9	4955.9	11420.6	13992.7	14720.9
47.5°	1311.4	1389.3	1452.7	1490.7	1510.7	1691.8	2389.2	5015.6	11938.6	14532.5	15219.0
50°	1313.2	1387.5	1467.2	1527.0	1474.4	1646.5	2340.3	5252.9	12612.4	15173.7	15612.0
52.5°	1371.2	1461.8	1525.2	1539.6	1423.7	1592.2	2314.9	5667.7	13409.4	15740.6	16008.7
55°	1436.4	1530.6	1599.4	1590.4	1396.6	1523.3	2309.5	6109.7	14282.5	16401.8	16525.0
57.5°	1412.9	1550.5	1655.6	1608.5	1398.4	1456.3	2285.9	6466.5	15012.5	16896.3	17035.8
58°	1405.6	1543.3	1662.8	1604.9	1392.9	1436.4	2280.5	6497.3	15113.9	16930.7	17108.2
60°	1335.0	1479.9	1657.4	1577.7	1362.1	1382.1	2220.7	6596.9	15086.8	16753.2	17151.7
62.5°	1206.4	1325.9	1532.4	1445.5	1267.9	1309.6	2086.7	6473.8	14351.3	15898.2	16515.9
65°	1061.5	1150.2	1287.9	1271.6	1133.9	1235.3	1903.7	5986.5	12878.7	14510.7	15161.0
67.5°	952.8	1025.2	1112.2	1088.6	1019.8	1135.7	1706.3	5162.4	11226.8	12844.3	13663.0
70°	842.3	898.4	941.9	925.6	903.9	1037.9	1530.6	4189.7	9643.6	11261.2	12054.5
72.5°	730.0	782.5	818.7	795.2	782.5	934.7	1387.5	3251.4	7616.7	9290.4	10310.2
75°	610.4	663.0	688.3	661.1	653.9	824.2	1175.6	2429.0	5714.8	7162.1	8042.4
77.5°	472.8	528.9	561.5	552.5	556.1	677.4	949.1	1662.8	4086.4	4881.6	5809.0
80°	331.5	393.1	414.8	405.7	431.1	516.2	670.2	1056.0	2818.5	3168.1	3822.0
82.5°	204.7	262.6	266.3	275.3	293.4	382.2	505.4	643.0	1769.7	1829.5	2304.0
85°	103.2	125.0	134.0	148.5	164.8	233.7	288.0	398.5	1139.3	862.2	1287.9
87.5°	34.4	36.2	43.5	54.3	67.0	96.0	123.2	163.0	282.6	155.8	398.5
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: P455889

CATALOG NUMBER: GALN-SA7A-760-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4	6890.4
2.5°	7714.5	7868.5	7980.8	8084.1	7984.4	7975.4	7877.6	7720.0	7654.8	7654.8
5°	8169.2	8529.7	8821.3	9007.9	8928.2	8736.2	8419.2	8015.2	7797.9	7759.8
7.5°	8294.2	9006.0	9547.6	9739.6	9605.6	9181.7	8574.9	7893.9	7582.3	7513.5
10°	8218.1	9143.7	9938.9	10243.2	10056.6	9415.4	8587.6	7752.6	7368.6	7288.9
12.5°	8138.4	9161.8	10011.3	10451.5	10330.1	9603.8	8680.0	7660.2	7216.4	7102.3
15°	8196.4	9169.1	9922.6	10377.2	10455.1	9830.2	8832.2	7727.2	7185.6	7064.3
17.5°	8562.3	9306.7	9795.8	10163.5	10437.0	10138.1	9265.1	8047.8	7461.0	7310.6
20°	9326.7	9636.4	9868.2	10152.6	10592.8	10766.7	10150.8	8928.2	8234.4	8102.2
22.5°	11540.1	11484.0	11009.4	11004.0	11641.6	12338.9	12297.3	10717.8	9674.4	9565.8
25°	12369.7	12108.9	11422.4	11255.7	11536.5	12612.4	12456.7	11083.7	10120.0	9855.6
27.5°	12045.5	11398.8	10947.8	10909.8	10817.4	11833.6	12208.5	11232.2	10275.8	10018.6
30°	12025.6	11074.6	10429.8	10505.8	10594.6	11565.5	12346.2	11697.7	10674.3	10399.0
32.5°	12074.5	11119.9	10467.8	10482.3	10746.8	11605.3	12498.3	12204.9	11197.8	10922.5
35°	12271.9	11377.1	10710.5	10676.1	11089.1	11866.2	12757.4	13001.9	11913.3	11599.9
37.5°	12590.7	11889.7	11154.3	11145.2	11744.8	12337.1	13079.8	13806.1	12625.1	12288.2
40°	13059.8	12489.3	11944.1	11895.1	12636.0	13103.3	13498.2	14662.9	13452.9	13020.0
42.5°	13626.8	13208.4	12985.6	13179.4	13891.3	13963.7	14150.3	15454.5	14157.5	13654.0
45°	14152.1	14132.2	14441.9	14956.3	15371.1	14936.4	14831.4	15985.2	14704.6	14157.5
47.5°	14777.0	15316.8	16251.5	17005.0	17439.7	16068.5	15412.8	16331.2	15103.1	14599.5
50°	15411.0	16735.1	18227.6	19278.2	19370.6	17298.4	15813.1	16657.2	15465.3	14941.8
52.5°	16077.6	17867.2	19854.2	21075.1	20895.8	18368.9	16200.7	16878.2	15838.5	15378.4
55°	16657.2	18560.9	20763.5	21935.5	21672.8	19021.0	16619.2	17117.3	16371.0	15983.4
57.5°	16981.4	18618.9	20537.1	21560.5	21276.1	18894.2	16811.2	17294.8	16711.5	16407.2
58°	17028.5	18541.0	20336.1	21343.2	21053.3	18787.3	16809.3	17287.5	16733.3	16427.2
60°	16986.9	18035.6	19588.0	20484.6	20180.3	18117.1	16740.5	17151.7	16457.9	16198.9
62.5°	16601.0	17158.9	18296.5	18948.6	18861.6	17070.2	16457.9	16639.1	15619.3	15369.3
65°	16093.9	15963.4	16642.7	17104.6	17169.8	16285.9	16177.2	15530.5	14543.3	14190.1
67.5°	15478.0	14608.6	14606.7	14869.4	14978.1	15079.5	15592.1	14326.0	12992.8	12619.7
70°	14432.9	12520.1	11944.1	12253.8	12163.2	13020.0	14547.0	12634.2	11123.5	10687.0
72.5°	12516.4	9935.3	9013.3	9411.8	9183.6	10210.6	12728.4	10397.2	9198.0	8661.9
75°	10145.4	7432.0	6481.0	6846.9	6705.6	7745.3	10591.0	7551.5	6596.9	6392.3
77.5°	7877.6	5385.1	4832.7	4782.0	4887.0	5763.7	7768.9	5099.0	4349.1	4209.6
80°	5060.9	3854.6	3887.2	3822.0	3876.3	3633.6	4716.8	3253.2	2945.3	2833.0
82.5°	3331.1	2686.2	3202.5	2956.1	2807.6	2443.5	3093.8	2130.2	1807.7	1746.1
85°	2269.6	1978.0	1800.5	1376.6	1621.2	1882.0	2320.3	1146.6	909.3	824.2
87.5°	1025.2	688.3	505.4	311.6	492.7	568.8	1126.7	134.0	103.2	106.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)