

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: P526051

Luminaire Tested: **GALN-SA1A-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526051  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-727-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2140 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G0

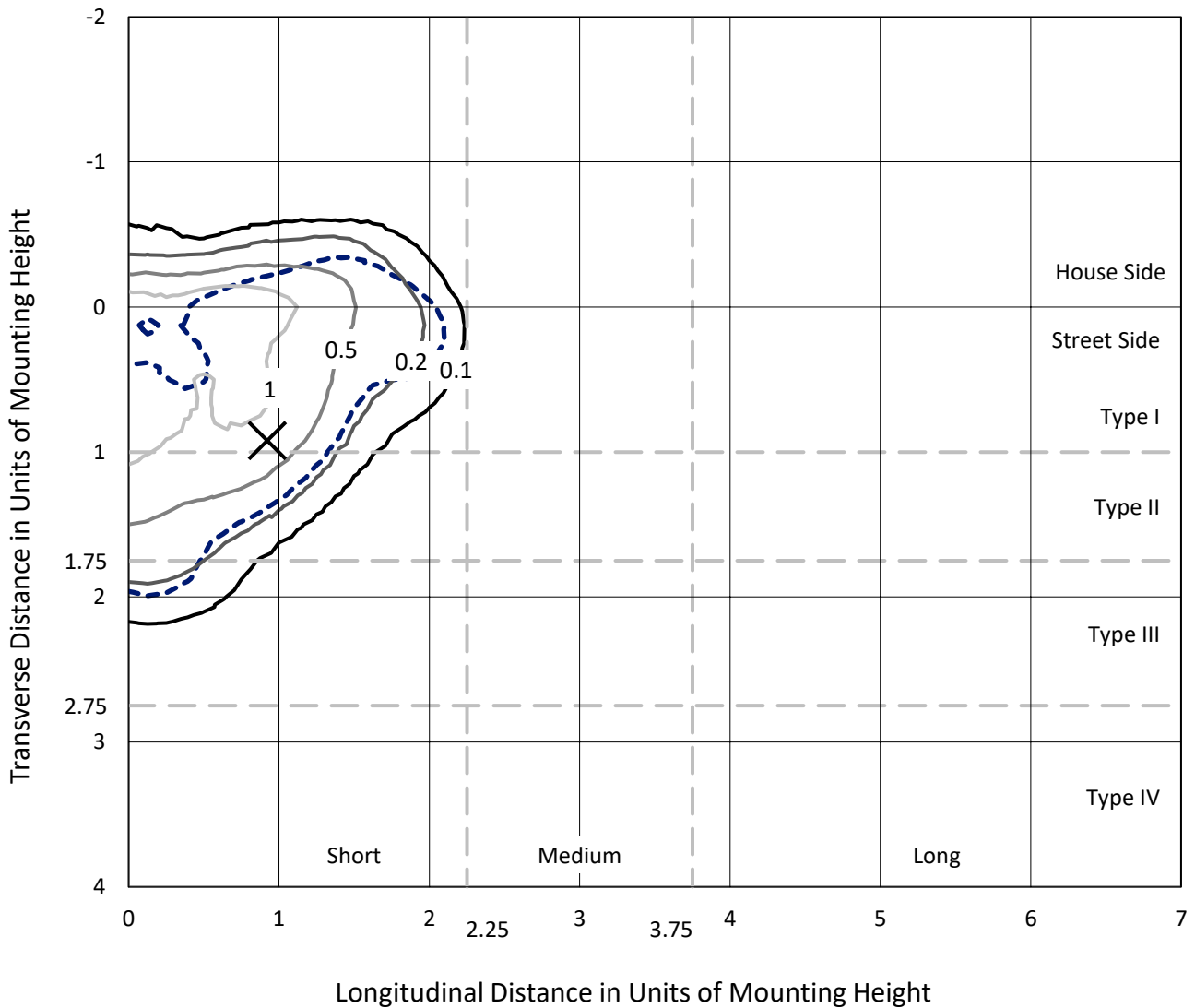
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P526051  
 CATALOG NUMBER: GALN-SA1A-727-U-SLL-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

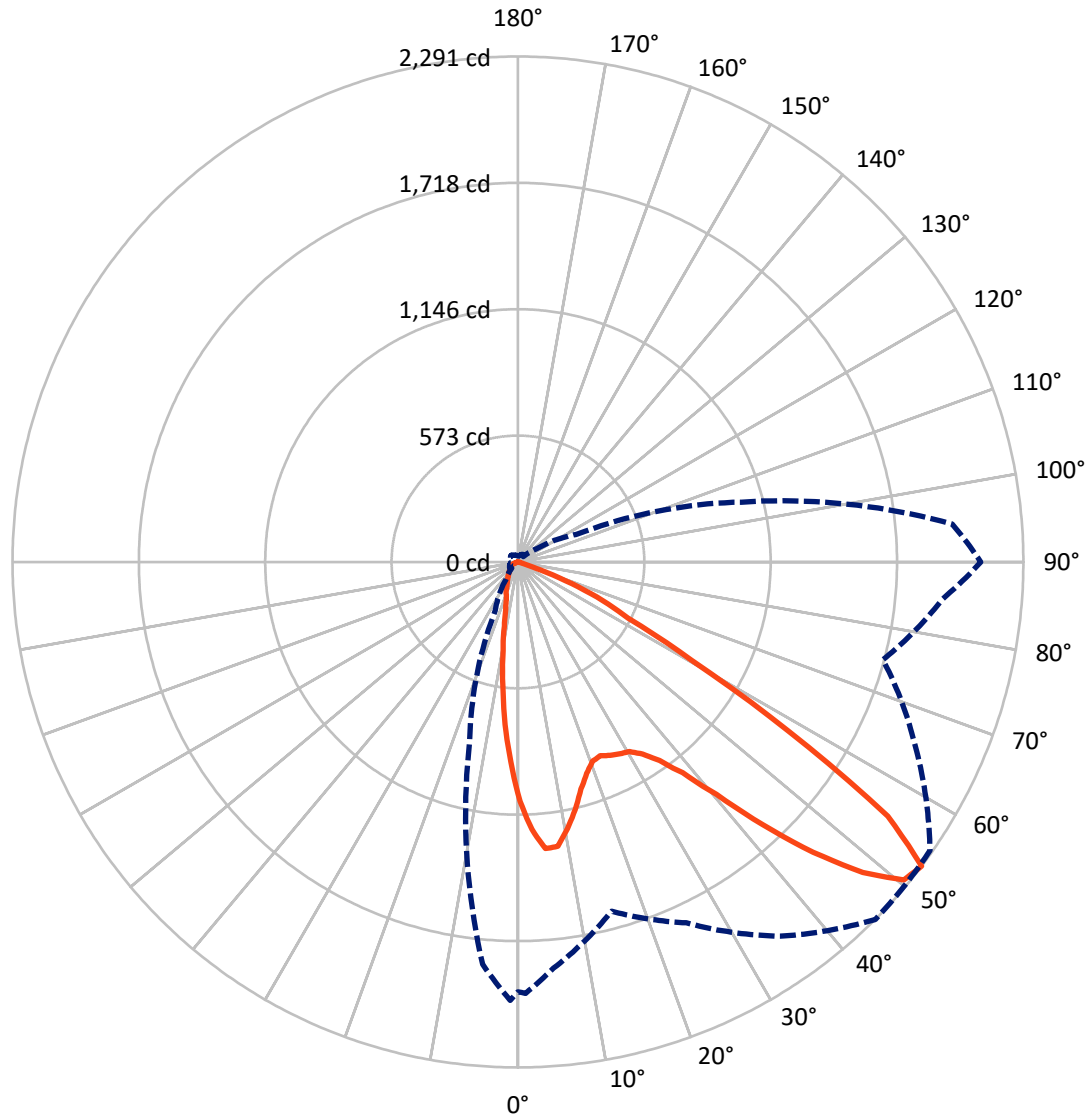
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P526051  
CATALOG NUMBER: GALN-SA1A-727-U-SLL-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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 CATALOG NUMBER: GALN-SA1A-727-U-SLL-GRSBK

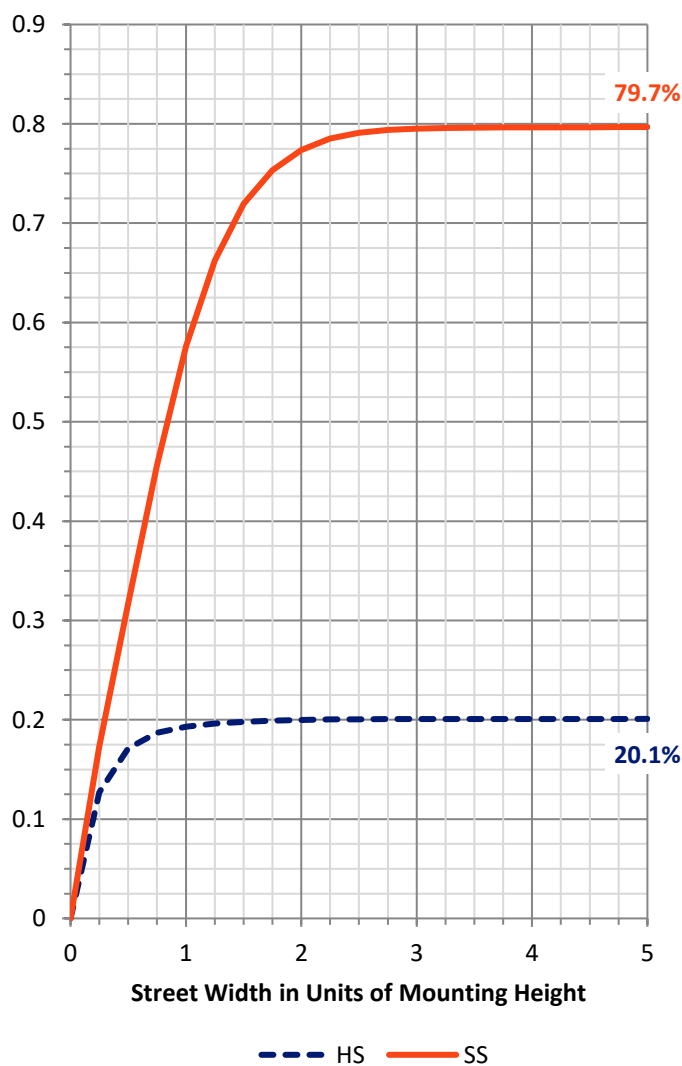
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	434.3	0.0	434.3
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	1705.7	0.0	1705.7
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	2140.0	0.0	2140.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.1	3.7
10°-20°	156.1	7.3
20°-30°	237.6	11.1
30°-40°	355.1	16.6
40°-50°	505.7	23.6
50°-60°	543.6	25.4
60°-70°	240.9	11.3
70°-80°	19.5	0.9
80°-90°	2.3	0.1
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°	2140.0	100.0
0°-180°	2140.0	100.0

**Coefficient of Utilization**

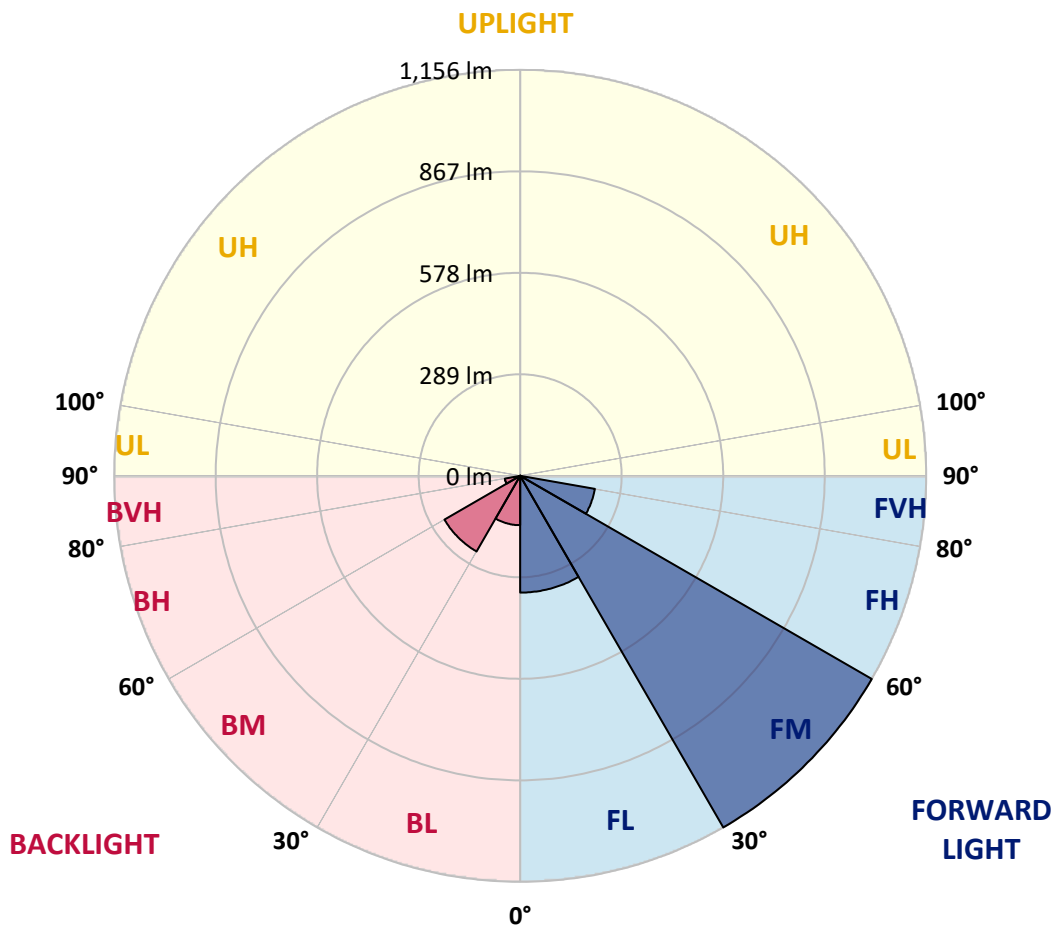


REPORT NUMBER: P526051  
 CATALOG NUMBER: GALN-SA1A-727-U-SLL-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.4	15.5			
FM (30°-60°)	1155.7	54.0			
FH (60°-80°)	216.0	10.1			G0/660
FVH (80°-90°)	1.7	0.1			G0/10
BL (0°-30°)	140.5	6.6	B1/500		
BM (30°-60°)	248.8	11.6	B1/1000		
BH (60°-80°)	44.4	2.1	B0/110		G0/110
BVH (80°-90°)	0.6	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-G0**  
 Type III Short





REPORT NUMBER: P526051

CATALOG NUMBER: GALN-SA1A-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1
2.5°	1148.2	1151.6	1170.1	1193.3	1205.5	1233.2	1213.9	1218.9	1208.4	1171.4	1142.3
5°	1113.3	1112.9	1136.4	1193.7	1248.0	1303.1	1304.8	1275.3	1223.6	1166.7	1085.5
7.5°	1008.1	1024.5	1048.9	1140.2	1240.8	1282.1	1301.8	1267.3	1187.8	1106.5	1018.6
10°	928.5	936.9	978.2	1088.4	1162.1	1217.2	1229.4	1209.7	1148.6	1047.2	948.7
12.5°	882.6	886.8	935.2	1027.8	1105.7	1146.5	1152.4	1161.7	1117.9	1022.8	904.5
15°	883.0	886.4	951.7	1029.1	1059.8	1048.9	1068.2	1067.8	1086.8	1018.2	941.6
17.5°	946.6	950.4	1009.3	1047.6	1034.2	1008.5	1007.2	1026.6	1066.6	1075.8	997.5
20°	1056.0	1064.9	1108.2	1106.1	1030.4	978.6	964.3	979.0	1072.0	1124.6	1110.3
22.5°	1203.4	1215.6	1245.9	1187.8	1047.6	958.4	953.8	982.4	1108.2	1233.7	1238.3
25°	1374.2	1394.9	1409.6	1335.1	1109.1	993.3	971.4	1020.7	1157.1	1351.9	1401.2
27.5°	1487.5	1508.9	1505.6	1399.1	1150.3	1002.6	984.1	1029.9	1199.6	1380.1	1486.2
30°	1575.8	1588.9	1612.5	1433.6	1191.6	1028.7	997.1	1069.1	1213.5	1429.0	1588.9
32.5°	1679.0	1687.8	1689.5	1494.6	1255.1	1061.5	1037.5	1117.9	1274.9	1475.7	1679.8
35°	1782.9	1796.0	1768.6	1570.0	1294.3	1122.5	1104.9	1202.5	1324.2	1524.1	1780.0
37.5°	1895.7	1902.5	1839.3	1601.1	1350.2	1221.9	1212.2	1293.8	1409.6	1611.6	1891.1
40°	1990.4	1996.7	1914.7	1639.4	1409.2	1360.8	1385.6	1468.1	1525.8	1668.4	1946.7
42.5°	2043.0	2057.8	1939.9	1618.4	1527.4	1518.2	1628.5	1657.5	1660.4	1684.4	1996.3
45°	2057.4	2050.6	1898.3	1635.6	1631.0	1777.0	1877.2	1915.5	1794.3	1713.9	2009.0
47.5°	1991.3	2000.1	1836.8	1620.5	1766.9	1973.2	2102.8	2173.9	1894.0	1688.2	1977.8
50°	1937.8	1926.5	1817.0	1609.5	1803.6	2065.8	2265.7	2281.7	1985.8	1719.8	1943.7
52.5°	1948.3	1955.5	1848.6	1638.6	1804.4	2071.2	2291.0	2280.0	1988.8	1712.6	1931.5
55°	1970.7	1939.1	1835.1	1574.6	1683.6	1918.5	2033.4	2016.5	1835.5	1636.5	1901.6
57.5°	1700.4	1749.3	1687.4	1405.8	1381.8	1445.4	1443.3	1495.0	1369.2	1408.3	1731.2
60°	1380.1	1388.5	1411.7	1202.5	956.3	934.4	904.1	871.3	921.3	1204.2	1574.6
62.5°	1213.9	1203.8	1286.3	1093.9	675.1	565.3	560.2	580.4	710.9	1148.6	1476.9
65°	882.2	894.8	954.6	849.0	506.8	431.4	423.8	483.6	575.4	920.5	1127.2
67.5°	538.8	563.2	568.6	523.6	343.9	273.2	262.2	316.5	415.4	595.6	660.8
70°	248.8	278.2	306.0	285.8	199.1	112.4	106.1	133.0	209.6	342.6	350.6
72.5°	75.3	75.8	106.1	110.7	64.4	25.3	22.3	29.5	71.1	113.2	119.1
75°	5.5	5.9	14.3	16.4	12.2	6.3	6.7	8.0	15.2	25.3	18.9
77.5°	0.4	0.4	0.4	2.1	3.8	4.2	5.5	6.3	8.0	9.3	8.4
80°	0.4	0.0	0.4	1.7	2.9	4.2	5.1	5.9	6.3	7.2	6.3
82.5°	0.0	0.0	0.0	1.3	2.9	4.2	4.6	6.3	7.2	8.4	7.2
85°	0.0	0.0	0.0	1.3	2.9	4.6	4.2	2.1	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



REPORT NUMBER: P526051  
 CATALOG NUMBER: GALN-SA1A-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1
2.5°	1147.4	1131.0	1093.5	1074.6	1029.9	1023.6	979.9	972.7	958.0	950.0	930.6
5°	1049.7	1029.9	968.9	917.6	857.8	816.1	784.1	755.1	738.3	722.7	729.8
7.5°	970.2	912.5	844.7	758.9	689.9	645.2	596.4	556.4	532.9	516.9	520.7
10°	886.8	849.4	755.1	658.7	575.4	543.8	505.5	474.8	441.5	412.9	399.4
12.5°	860.7	805.2	686.9	588.8	525.7	495.0	451.2	415.8	373.3	338.4	326.2
15°	865.4	811.9	668.4	563.6	489.1	436.1	383.9	340.1	293.4	269.0	256.3
17.5°	940.7	848.1	680.6	537.1	438.2	364.5	300.1	244.5	209.6	184.4	178.9
20°	1033.3	926.4	706.7	517.7	396.5	290.0	219.3	171.3	142.3	138.1	136.8
22.5°	1168.8	1054.4	762.7	504.7	345.6	226.0	150.3	124.6	116.6	115.7	116.2
25°	1358.2	1214.7	823.7	493.7	307.3	174.3	122.9	105.6	103.1	101.9	104.0
27.5°	1440.3	1311.5	856.1	470.1	272.3	157.0	121.2	104.8	97.6	95.5	96.8
30°	1541.8	1375.9	907.0	429.7	221.0	129.2	113.2	114.1	110.7	100.2	96.8
32.5°	1676.4	1456.3	932.7	401.1	197.4	106.9	82.9	76.2	85.0	86.7	89.7
35°	1762.7	1538.0	945.8	384.3	185.2	91.3	70.3	64.0	61.9	62.3	64.0
37.5°	1923.1	1648.2	962.2	366.6	175.9	79.6	63.6	57.7	54.7	54.7	56.4
40°	2019.1	1735.8	984.5	356.9	166.7	72.4	57.7	52.6	50.1	50.1	50.9
42.5°	2043.0	1779.1	976.9	353.6	156.2	70.7	52.6	48.8	45.9	45.5	45.0
45°	2086.0	1845.2	978.2	349.8	145.2	64.4	49.7	45.5	41.2	40.8	40.4
47.5°	2133.1	1892.8	980.7	335.0	134.7	53.9	51.8	42.1	37.0	36.2	36.2
50°	2092.7	1930.7	1002.6	320.3	121.2	43.8	50.9	39.6	32.8	31.6	32.0
52.5°	2097.8	1975.3	1048.9	299.7	104.4	34.9	41.2	37.5	29.9	27.8	28.2
55°	2017.0	1928.1	1055.2	277.8	81.7	26.9	31.6	32.8	25.3	24.4	24.4
57.5°	1736.2	1632.7	931.0	225.2	53.9	22.3	22.7	28.6	21.9	21.0	21.5
60°	1485.8	1310.7	749.2	148.6	33.7	17.7	16.4	29.0	19.4	18.9	20.2
62.5°	1354.5	1077.1	568.2	92.2	23.1	13.5	11.4	23.6	16.8	16.8	18.5
65°	978.6	723.5	330.4	48.4	16.4	10.5	8.4	13.5	13.9	14.3	15.2
67.5°	606.1	365.3	139.3	23.6	10.9	7.2	5.5	8.4	9.3	9.3	10.1
70°	299.3	145.6	46.3	13.5	8.4	5.9	3.8	4.6	4.6	4.2	4.6
72.5°	92.6	43.8	11.8	8.4	5.9	3.8	2.1	1.7	0.8	0.0	0.4
75°	10.5	8.4	7.6	5.9	3.8	1.7	0.4	0.0	0.0	0.0	0.0
77.5°	6.3	7.2	7.2	5.9	3.8	1.3	0.0	0.0	0.0	0.0	0.0
80°	5.1	5.5	5.9	5.5	3.4	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	6.3	7.2	8.0	7.2	4.6	2.1	0.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	1.3	0.4	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





REPORT NUMBER: P526051

CATALOG NUMBER: GALN-SA1A-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1
2.5°	922.6	913.4	926.4	907.0	906.6	907.0	901.6	896.5	904.5	926.0	928.1
5°	704.2	723.9	730.3	750.9	739.5	722.7	726.1	714.7	742.5	754.7	745.0
7.5°	512.7	511.4	553.9	556.4	561.9	562.3	561.5	539.2	516.4	521.5	536.6
10°	397.8	376.3	396.9	394.8	408.3	404.5	410.0	386.0	394.0	394.0	403.6
12.5°	324.1	301.4	297.6	292.1	297.6	299.7	301.8	297.2	310.6	316.9	323.7
15°	247.5	234.9	231.5	221.0	222.7	228.5	233.6	235.7	231.5	241.2	242.0
17.5°	179.7	179.3	181.4	181.0	179.3	178.0	177.6	172.1	170.5	171.3	174.7
20°	136.4	139.7	146.9	154.0	157.8	153.2	146.9	137.6	133.8	134.7	135.1
22.5°	116.6	121.6	131.3	139.3	143.1	134.7	123.3	115.3	113.6	113.2	112.8
25°	105.6	111.5	118.7	121.2	120.8	115.7	107.3	104.0	103.1	102.3	98.5
27.5°	99.8	101.9	103.1	106.1	107.3	104.0	101.9	96.8	96.0	96.0	93.4
30°	96.4	95.1	96.8	94.7	96.4	93.9	94.3	94.3	92.2	93.0	93.0
32.5°	89.7	90.1	90.1	85.9	87.1	84.2	87.1	89.7	90.1	90.5	93.9
35°	65.7	73.2	77.0	77.0	78.3	76.2	75.8	72.8	69.0	65.2	63.6
37.5°	57.7	60.6	65.7	68.6	70.7	69.0	65.2	60.6	58.5	56.8	55.1
40°	51.3	53.9	57.2	60.6	64.8	62.7	56.8	54.7	52.2	52.2	50.5
42.5°	46.3	47.6	49.7	54.7	59.3	55.1	50.9	49.2	48.0	47.6	47.1
45°	41.7	42.1	44.2	48.4	53.9	49.7	45.5	43.4	43.8	44.2	43.8
47.5°	37.5	38.3	39.6	44.6	48.0	45.9	41.2	40.0	40.0	40.0	40.4
50°	32.4	34.5	37.0	41.2	43.8	42.5	38.7	37.0	36.2	36.2	36.6
52.5°	29.0	30.7	34.1	39.1	42.5	40.4	36.6	34.1	32.4	32.0	32.8
55°	25.3	28.2	33.7	37.5	42.1	40.0	35.8	32.8	29.9	29.5	29.5
57.5°	22.7	27.4	32.4	37.0	40.8	39.1	35.8	32.0	28.2	27.8	27.8
60°	21.5	26.5	31.6	35.8	40.8	38.3	35.4	31.1	26.9	26.9	26.5
62.5°	20.2	24.8	29.9	34.1	39.1	37.0	34.1	29.9	25.7	25.7	24.8
65°	16.8	21.5	24.8	28.6	34.1	32.0	29.0	26.1	22.7	21.9	22.3
67.5°	11.8	14.7	18.1	21.9	25.3	24.4	23.1	21.0	18.1	17.7	17.3
70°	5.9	8.0	10.9	14.7	17.7	16.8	16.0	14.3	12.6	12.2	12.2
72.5°	0.8	2.5	4.6	6.7	9.3	9.7	9.3	8.8	8.4	8.0	8.4
75°	0.0	0.0	0.0	1.7	3.8	4.6	5.5	6.3	6.3	5.5	6.7
77.5°	0.0	0.0	0.0	0.0	0.4	2.1	4.2	5.5	6.7	5.9	8.0
80°	0.0	0.0	0.0	0.0	0.4	2.5	4.2	5.9	6.7	5.9	8.4
82.5°	0.0	0.0	0.0	0.0	0.4	2.9	4.2	5.5	6.3	5.9	7.6
85°	0.0	0.0	0.0	0.0	1.3	2.5	1.7	0.8	0.4	0.4	1.3
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



REPORT NUMBER: P526051  
 CATALOG NUMBER: GALN-SA1A-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1
2.5°	939.9	969.8	1001.7	1013.9	1051.8	1080.4	1099.8	1141.5	1147.8	1148.2
5°	755.1	770.2	825.0	850.6	907.0	950.8	997.5	1064.9	1109.9	1113.3
7.5°	536.6	578.7	601.9	668.8	738.3	806.9	876.3	954.6	1006.8	1008.1
10°	431.8	459.2	500.4	550.5	609.0	678.9	771.5	862.4	915.5	928.5
12.5°	347.7	395.6	442.8	494.6	539.2	591.8	691.5	812.8	856.5	882.6
15°	267.7	311.5	367.0	427.6	478.1	548.4	662.1	800.6	874.2	883.0
17.5°	197.4	236.5	287.9	345.1	420.9	520.7	667.1	862.4	931.9	946.6
20°	141.8	164.6	205.0	271.5	367.9	488.2	672.2	925.1	1030.8	1056.0
22.5°	112.4	121.6	148.2	207.1	308.5	454.2	708.0	1045.1	1166.7	1203.4
25°	97.6	102.7	115.3	163.3	271.1	450.8	765.2	1189.0	1347.7	1374.2
27.5°	94.3	95.1	106.1	149.8	250.9	428.5	787.1	1291.3	1460.5	1487.5
30°	99.3	112.8	113.6	126.7	213.4	384.3	798.4	1390.2	1556.1	1575.8
32.5°	85.9	81.7	84.6	98.1	187.7	358.6	819.9	1476.5	1665.1	1679.0
35°	59.8	62.7	69.4	85.0	164.2	331.7	825.4	1571.6	1768.6	1782.9
37.5°	55.1	56.8	62.3	72.4	144.4	316.5	817.8	1641.1	1876.0	1895.7
40°	51.3	53.5	56.4	65.7	129.6	299.7	807.3	1703.8	1941.6	1990.4
42.5°	48.4	50.1	52.6	62.7	117.0	282.8	792.6	1792.2	2000.5	2043.0
45°	45.0	47.6	50.5	61.0	109.9	271.5	781.6	1786.7	2034.6	2057.4
47.5°	41.7	45.9	49.2	56.8	107.8	266.0	786.2	1766.1	2006.8	1991.3
50°	38.3	43.8	49.7	47.1	102.7	255.1	791.7	1794.3	1940.8	1937.8
52.5°	35.4	41.7	46.3	38.7	91.3	244.5	844.7	1831.3	1987.5	1948.3
55°	31.1	37.5	37.0	31.1	74.1	236.5	886.4	1832.2	1955.9	1970.7
57.5°	28.2	33.3	29.0	26.1	54.7	197.8	818.6	1536.3	1674.3	1700.4
60°	26.1	32.4	21.9	20.6	35.8	142.7	714.7	1189.9	1330.9	1380.1
62.5°	24.0	30.7	17.3	16.8	24.8	101.4	587.6	995.8	1147.0	1213.9
65°	21.0	21.9	13.9	13.0	17.7	54.7	357.8	685.6	857.4	882.2
67.5°	17.3	16.8	11.4	10.5	11.8	26.5	157.8	343.5	497.1	538.8
70°	13.9	13.9	9.7	8.4	8.4	12.2	41.2	136.8	224.8	248.8
72.5°	10.1	10.5	7.6	6.7	6.3	5.9	6.7	27.4	58.9	75.3
75°	8.8	9.3	7.6	5.9	4.6	3.8	2.9	2.5	3.4	5.5
77.5°	9.7	9.7	8.0	5.5	4.2	2.9	1.7	0.8	0.8	0.4
80°	12.2	12.6	10.5	7.2	5.1	3.4	2.1	0.8	0.4	0.4
82.5°	13.0	14.3	11.8	8.8	6.3	3.8	2.1	0.4	0.0	0.0
85°	3.4	5.5	9.3	8.0	6.3	3.8	2.1	0.4	0.0	0.0
87.5°	0.0	0.4	1.3	1.3	1.7	1.7	1.3	0.4	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

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