

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: P451130

Luminaire Tested: **GALN-SA2A-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451130
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-SA2A-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5523 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

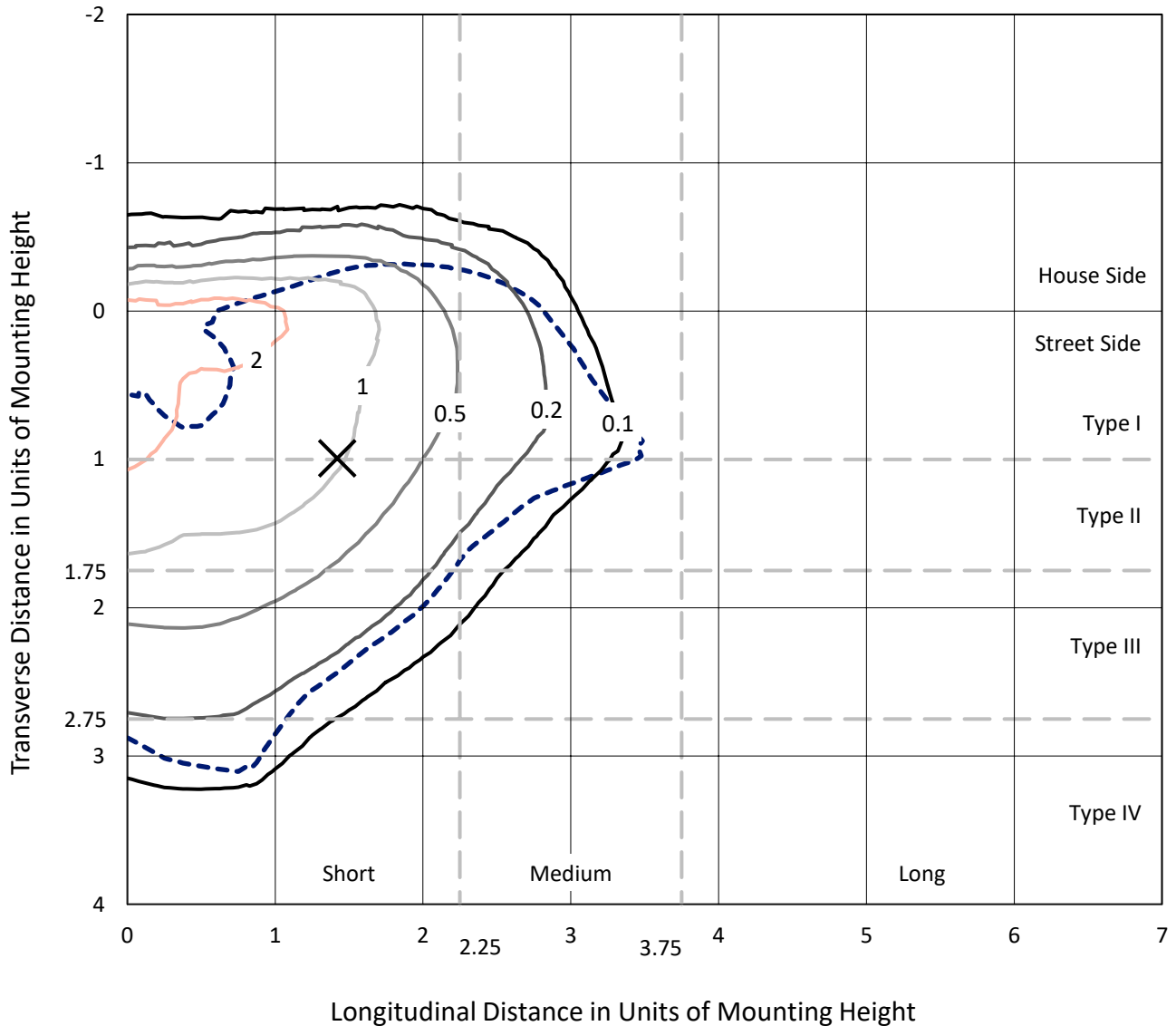
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

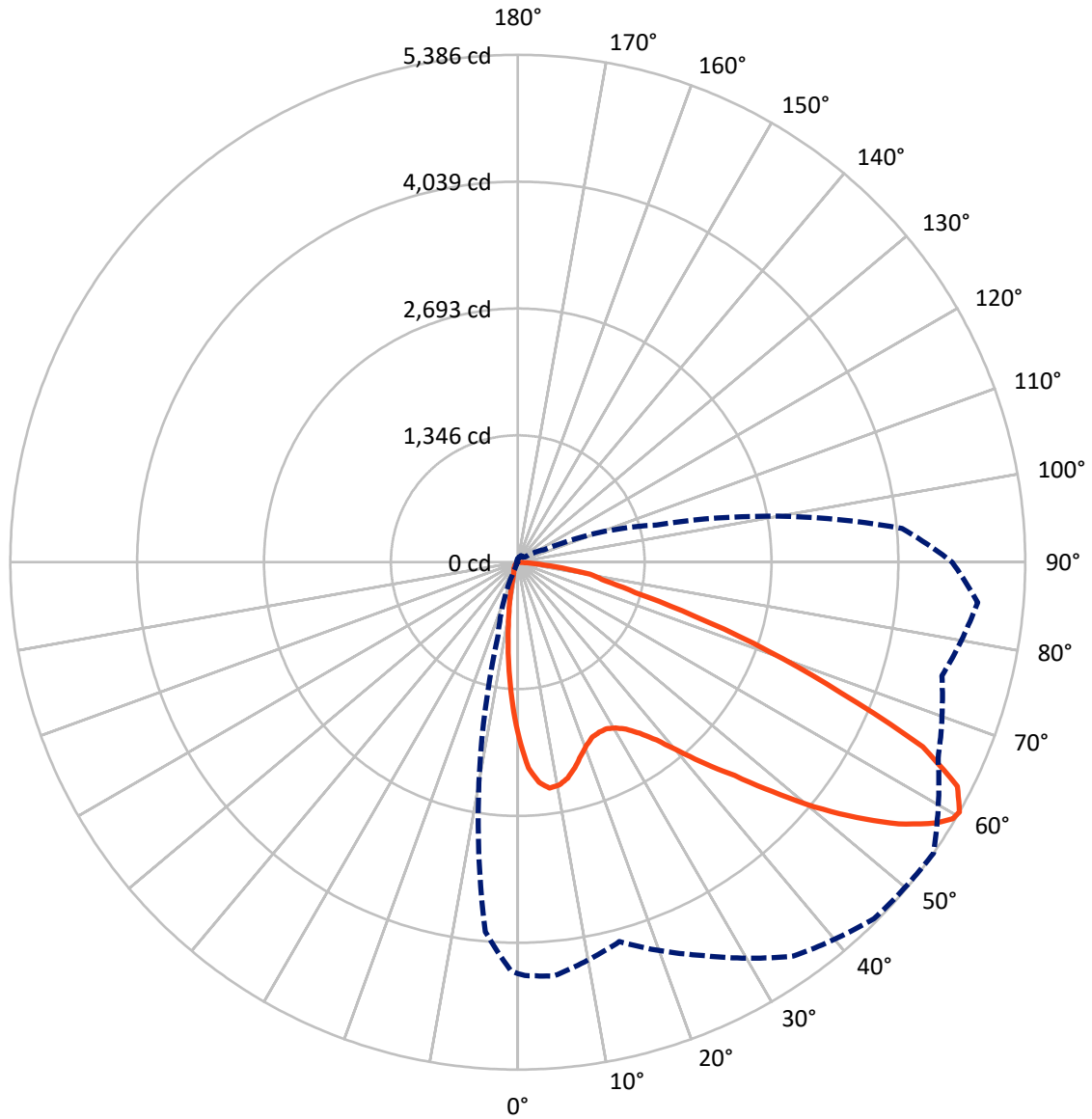
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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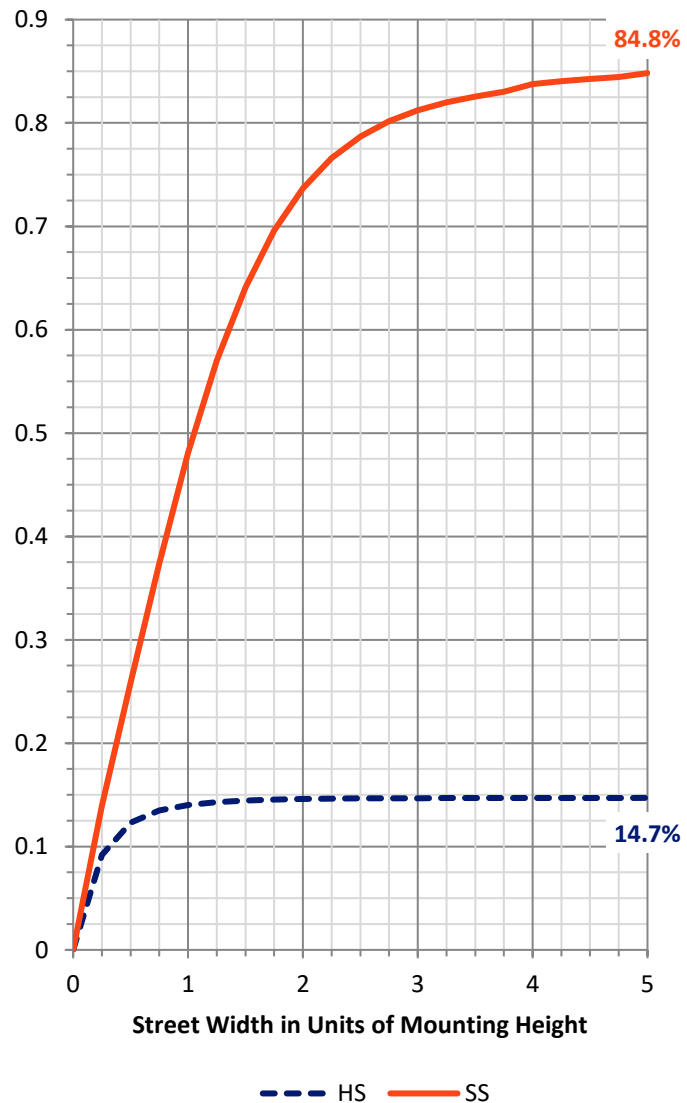
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	819.7	0.0	819.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	4703.3	0.0	4703.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	5523.0	0.0	5523.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	2.5
10°-20°	272.7	4.9
20°-30°	403.6	7.3
30°-40°	601.7	10.9
40°-50°	881.2	16.0
50°-60°	1272.1	23.0
60°-70°	1338.2	24.2
70°-80°	550.5	10.0
80°-90°	64.5	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°	5523.0	100.0
0°-180°	5523.0	100.0



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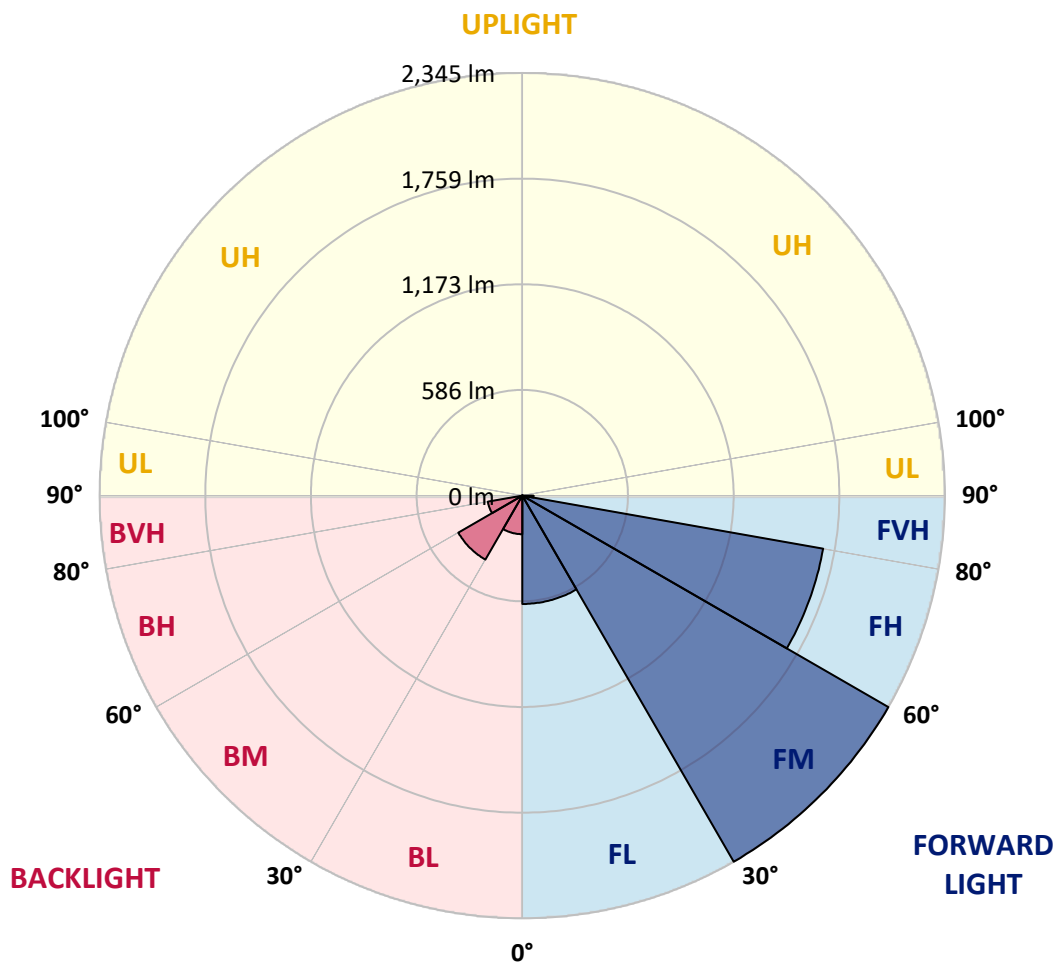
CATALOG NUMBER: GALN-SA2A-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.0	10.9			
FM	(30°-60°)	2345.1	42.5			
FH	(60°-80°)	1694.7	30.7			G1/1800
FVH	(80°-90°)	62.6	1.1			G1/100
BL	(0°-30°)	213.9	3.9	B1/500		
BM	(30°-60°)	409.9	7.4	B1/1000		
BH	(60°-80°)	194.0	3.5	B1/500		G1/500
BVH	(80°-90°)	1.9	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°	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1
2.5°	2043.1	2039.7	2069.9	2119.2	2168.9	2194.9	2189.8	2187.6	2146.4	2116.2	2052.9
5°	2038.8	2056.3	2110.3	2243.7	2344.9	2393.8	2408.3	2347.5	2267.1	2150.6	2007.0
7.5°	1916.8	1938.5	2026.5	2235.2	2415.1	2521.3	2517.5	2420.2	2254.4	2074.1	1869.2
10°	1765.5	1791.0	1894.3	2147.7	2381.1	2521.3	2529.0	2405.7	2199.5	1968.3	1752.7
12.5°	1658.8	1689.0	1803.3	2066.0	2293.5	2431.6	2440.6	2351.3	2158.3	1927.5	1689.4
15°	1622.7	1651.1	1767.2	2024.8	2200.4	2274.8	2272.7	2263.3	2142.1	1937.2	1692.8
17.5°	1684.7	1708.1	1839.0	2043.5	2113.2	2105.6	2116.6	2161.7	2145.5	2019.3	1799.9
20°	1845.0	1868.8	2009.5	2100.9	2046.5	1998.0	2003.1	2078.4	2177.0	2173.6	1967.4
22.5°	2065.6	2106.0	2233.5	2212.3	2037.6	1931.3	1920.7	2018.4	2230.6	2351.3	2193.6
25°	2344.9	2385.7	2485.2	2390.0	2081.4	1915.6	1905.8	2000.2	2295.6	2524.7	2448.2
27.5°	2579.6	2610.6	2709.7	2563.0	2146.0	1922.4	1906.2	2002.7	2348.3	2672.3	2662.9
30°	2767.5	2790.4	2848.7	2643.8	2201.7	1952.1	1933.4	2040.1	2371.7	2744.1	2836.8
32.5°	2918.8	2957.5	2975.8	2730.1	2281.6	2008.2	1976.4	2112.0	2428.7	2833.0	3019.2
35°	3091.8	3136.5	3113.1	2812.5	2387.0	2095.8	2056.7	2228.4	2515.0	2915.0	3230.9
37.5°	3311.2	3362.6	3271.2	2899.3	2498.4	2227.6	2209.3	2392.1	2645.9	3032.3	3457.9
40°	3538.2	3568.0	3424.7	3004.7	2635.3	2419.3	2436.7	2635.3	2817.2	3173.0	3699.3
42.5°	3715.5	3743.5	3582.4	3093.1	2775.1	2646.8	2719.4	2928.6	3013.6	3317.2	3879.6
45°	3851.1	3874.9	3691.7	3189.6	2963.9	2976.2	3113.5	3230.9	3210.5	3405.2	4018.6
47.5°	3956.5	3976.9	3775.9	3293.4	3246.6	3379.2	3589.2	3639.0	3414.5	3500.4	4144.4
50°	3999.9	4005.8	3802.2	3425.6	3567.5	3892.8	4111.7	4081.5	3648.3	3606.2	4278.3
52.5°	4056.4	4055.2	3877.5	3551.4	3869.4	4351.9	4570.4	4501.9	3912.7	3764.8	4428.8
55°	4204.8	4206.5	4038.6	3729.9	4126.6	4722.6	4956.4	4906.7	4191.6	4032.6	4604.4
57.5°	4385.0	4391.4	4267.7	3938.7	4372.3	4991.3	5244.6	5225.5	4568.7	4330.6	4770.2
59°	4408.4	4421.2	4376.1	4085.8	4518.1	5073.7	5343.2	5362.0	4770.6	4527.0	4859.9
60°	4365.9	4387.2	4407.6	4169.1	4603.5	5103.5	5349.2	5385.8	4922.4	4660.5	4900.7
62.5°	4180.6	4214.1	4316.6	4425.4	4710.3	5010.8	5159.2	5235.7	5110.3	5011.2	4904.5
65°	3937.8	3955.3	4103.2	4470.9	4503.2	4578.0	4624.0	4722.2	4884.5	5146.4	4729.0
67.5°	3539.9	3591.4	3772.5	4206.9	3892.3	3803.9	3792.4	3694.7	4116.4	4824.2	4296.2
70°	2924.4	2947.3	3170.5	3448.9	2937.5	2801.5	2855.9	2819.4	3190.9	4152.9	3457.9
72.5°	2211.4	2263.3	2481.4	2749.2	1998.9	1822.5	1972.5	1958.9	2396.8	3337.6	2375.5
75°	1573.3	1606.9	1885.0	2151.5	1399.9	1186.1	1240.1	1290.6	1673.2	2635.3	1403.7
77.5°	1081.1	1110.0	1318.7	1422.9	1021.1	978.2	894.9	943.8	1096.4	1563.6	763.9
80°	652.1	650.8	788.2	813.7	711.2	826.0	692.9	778.0	662.8	669.1	295.9
82.5°	423.4	419.2	482.1	525.4	395.8	416.2	279.3	402.6	431.9	186.6	93.5
85°	189.6	197.7	231.7	305.7	173.4	92.2	57.0	123.7	184.1	93.9	0.0
87.5°	19.6	15.3	40.8	74.4	23.8	2.6	8.5	4.3	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°	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1
2.5°	2023.5	1998.9	1925.3	1856.5	1797.4	1725.1	1678.3	1604.8	1560.2	1546.6	1548.7
5°	1942.3	1871.3	1731.5	1619.7	1495.1	1424.1	1316.2	1212.4	1156.3	1135.5	1126.1
7.5°	1772.3	1696.2	1527.4	1351.9	1218.4	1093.8	1013.5	922.1	859.6	808.1	799.2
10°	1646.0	1546.1	1337.0	1148.2	1042.8	949.3	868.9	777.5	704.0	645.3	629.2
12.5°	1570.4	1458.6	1225.2	1067.0	967.1	871.1	766.5	660.6	585.4	522.0	492.7
15°	1556.8	1427.1	1193.7	1008.8	885.5	769.5	630.4	516.1	438.7	378.8	360.5
17.5°	1638.8	1483.6	1189.0	948.0	778.8	614.3	469.7	374.9	287.8	254.2	241.0
20°	1785.0	1583.5	1188.6	877.4	669.1	473.2	329.9	244.4	209.2	193.0	185.3
22.5°	1984.4	1719.6	1211.1	816.6	555.2	349.0	235.5	194.7	174.3	161.1	158.1
25°	2228.0	1921.1	1266.4	775.4	468.0	273.8	194.3	166.6	149.6	143.7	141.1
27.5°	2444.4	2114.1	1327.2	732.9	405.6	242.3	180.2	152.6	139.0	134.3	130.5
30°	2631.0	2289.2	1356.5	676.8	355.4	221.9	182.8	163.2	145.4	131.4	125.0
32.5°	2786.6	2423.6	1375.7	625.8	312.9	181.5	144.5	126.3	118.2	113.1	108.8
35°	2981.3	2569.0	1364.2	596.9	291.2	165.4	131.8	108.8	95.2	85.0	80.8
37.5°	3185.4	2714.3	1344.2	573.1	281.4	153.5	125.4	103.3	88.4	77.8	72.3
40°	3396.7	2849.1	1320.8	550.9	272.5	145.8	121.6	98.6	83.7	72.3	66.3
42.5°	3590.1	2980.5	1311.5	536.5	258.0	147.1	118.6	96.5	79.1	67.2	62.1
45°	3746.5	3105.0	1324.2	528.8	242.3	145.0	119.5	93.9	75.2	63.8	58.7
47.5°	3913.6	3281.0	1365.5	521.2	227.0	134.8	125.8	93.5	73.5	61.6	56.1
50°	4107.9	3506.3	1459.8	502.5	208.3	123.7	133.9	93.1	71.4	59.1	53.6
52.5°	4366.8	3762.3	1557.2	469.7	181.1	113.1	128.0	91.8	67.2	56.1	50.6
55°	4599.3	4031.8	1639.7	431.1	146.7	97.8	115.2	86.3	59.9	51.0	45.9
57.5°	4695.4	4184.0	1637.1	377.5	117.3	85.9	94.8	79.1	52.3	45.1	40.8
59°	4660.1	4164.8	1582.3	338.0	107.1	79.5	78.6	78.2	48.9	40.8	37.4
60°	4610.4	4095.1	1523.2	318.4	100.8	75.2	72.3	77.4	45.9	38.3	34.9
62.5°	4419.9	3806.0	1327.2	285.3	92.2	63.8	57.8	65.5	40.8	33.2	30.2
65°	4144.0	3361.8	1123.6	275.9	89.7	52.7	48.0	46.8	34.9	28.1	25.5
67.5°	3605.8	2844.9	910.2	269.5	90.5	44.2	42.1	35.3	28.9	23.4	21.7
70°	2886.9	2218.2	745.2	262.3	91.4	36.1	35.3	28.1	23.4	19.6	17.9
72.5°	1754.0	1314.9	586.7	227.9	88.8	28.9	31.5	21.3	17.0	14.0	13.2
75°	1084.5	900.0	363.9	177.3	58.7	21.3	22.1	13.2	11.5	8.9	8.9
77.5°	628.3	568.4	130.1	63.8	25.9	12.8	9.8	6.8	6.4	3.8	3.8
80°	260.6	208.7	45.1	21.7	14.0	6.0	2.1	0.4	0.0	0.0	0.0
82.5°	76.1	67.6	12.3	9.8	4.3	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°	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1
2.5°	1512.6	1498.5	1492.1	1513.8	1493.8	1519.4	1499.8	1508.3	1533.4	1544.4	1572.9
5°	1132.1	1117.6	1110.8	1143.6	1141.9	1158.0	1156.3	1171.2	1183.9	1155.5	1184.8
7.5°	788.6	778.8	795.0	820.5	847.7	838.7	838.7	818.8	825.6	821.3	820.0
10°	599.8	566.3	557.7	556.9	567.1	569.2	557.7	530.1	540.3	543.3	561.1
12.5°	471.9	445.9	406.4	388.6	383.9	387.7	349.9	325.6	337.1	330.3	347.7
15°	338.4	317.1	293.8	273.8	268.2	260.6	219.4	190.5	187.0	188.3	191.3
17.5°	241.5	227.0	227.0	205.8	194.3	171.3	150.5	137.7	136.5	137.7	139.9
20°	178.1	170.5	169.6	164.1	151.3	136.0	121.6	119.0	118.2	120.3	121.2
22.5°	153.5	145.4	138.6	138.2	126.3	113.5	106.7	103.3	103.7	104.6	106.7
25°	137.3	128.8	121.6	117.3	108.8	99.9	93.5	91.8	91.8	93.1	93.5
27.5°	125.8	115.2	108.8	102.9	95.2	87.6	82.0	80.8	79.9	80.8	82.9
30°	117.8	107.1	99.1	90.1	84.2	76.9	72.3	70.6	70.1	70.6	72.3
32.5°	100.8	94.4	88.0	79.9	72.7	68.0	62.9	59.9	59.9	60.8	62.5
35°	76.1	72.7	72.3	70.1	64.2	59.1	53.1	50.2	50.2	51.9	52.7
37.5°	67.2	60.8	59.9	59.1	56.5	49.7	44.2	41.7	41.2	42.5	44.2
40°	61.2	54.0	50.2	49.3	49.7	42.1	36.1	33.6	33.6	34.0	35.7
42.5°	56.5	48.0	41.2	40.4	42.1	35.3	29.3	26.8	26.8	26.8	28.9
45°	52.7	42.9	34.9	30.6	33.2	28.9	23.8	21.3	20.4	21.3	22.1
47.5°	50.2	39.1	30.6	24.7	24.7	23.0	19.1	16.2	15.3	15.7	17.0
50°	48.0	35.7	25.9	20.0	17.9	18.3	14.5	12.3	11.5	11.5	12.8
52.5°	44.6	32.3	22.5	17.0	13.6	12.3	10.6	8.9	8.5	8.9	9.8
55°	40.4	29.3	19.6	14.0	10.6	8.5	7.7	6.4	6.0	6.4	7.7
57.5°	35.7	24.7	15.7	11.1	7.2	5.5	5.1	4.3	3.4	3.8	4.7
59°	32.7	22.1	13.6	8.9	5.5	3.8	3.8	3.0	2.1	2.6	3.8
60°	31.5	20.4	11.5	7.7	4.7	3.0	3.0	2.1	1.3	1.7	3.0
62.5°	26.8	17.0	8.9	4.7	2.1	0.4	1.3	0.4	0.0	0.4	1.3
65°	22.5	13.6	6.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4
67.5°	18.7	10.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.6	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



REPORT NUMBER: P451130
 CATALOG NUMBER: GALN-SA2A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1	1870.1
2.5°	1574.6	1635.4	1672.8	1743.4	1815.7	1871.3	1941.1	2003.6	2029.5	2043.1
5°	1214.5	1299.1	1371.0	1478.5	1578.4	1700.0	1823.3	1968.7	2024.4	2038.8
7.5°	852.4	938.6	1013.9	1138.5	1280.9	1443.7	1628.2	1812.7	1893.9	1916.8
10°	615.6	707.8	799.6	924.2	1057.3	1233.7	1425.8	1654.1	1747.6	1765.5
12.5°	388.6	487.6	636.8	790.7	931.4	1073.4	1274.5	1522.8	1626.1	1658.8
15°	225.3	299.3	411.9	612.6	791.6	979.5	1198.8	1473.4	1589.1	1622.7
17.5°	150.9	176.4	253.8	407.3	643.6	892.7	1179.7	1513.8	1641.8	1684.7
20°	127.1	138.6	165.8	248.3	495.7	815.4	1184.8	1623.5	1791.4	1845.0
22.5°	111.8	122.4	139.9	178.5	346.0	719.3	1209.0	1780.4	1997.2	2065.6
25°	98.6	109.3	124.6	147.9	232.5	608.3	1262.2	2009.9	2269.7	2344.9
27.5°	87.6	97.4	110.5	130.5	179.0	484.6	1309.3	2233.5	2518.4	2579.6
30°	77.4	85.4	98.2	113.5	148.8	373.7	1333.2	2429.1	2699.5	2767.5
32.5°	67.2	74.8	87.1	99.5	122.4	284.8	1316.6	2572.8	2875.5	2918.8
35°	57.4	65.5	75.7	87.1	105.9	230.0	1233.7	2734.3	3057.8	3091.8
37.5°	49.3	56.1	66.7	75.7	95.7	184.1	1133.4	2879.7	3262.3	3311.2
40°	41.7	48.5	59.1	67.2	88.0	145.0	1042.8	3041.3	3477.9	3538.2
42.5°	34.0	42.1	51.4	64.6	75.7	110.5	933.1	3172.2	3639.8	3715.5
45°	27.2	36.1	46.3	64.2	65.9	84.2	827.3	3274.2	3783.1	3851.1
47.5°	21.7	30.6	44.6	59.9	54.0	66.7	766.9	3380.9	3902.1	3956.5
50°	17.4	25.5	46.8	52.7	45.1	56.5	765.2	3500.0	3963.8	3999.9
52.5°	14.0	20.8	39.5	40.4	38.3	49.7	811.1	3633.9	4026.7	4056.4
55°	11.9	17.4	25.9	29.8	34.4	45.1	845.5	3840.0	4176.7	4204.8
57.5°	9.4	14.9	20.0	23.8	30.6	41.2	850.2	3999.0	4366.8	4385.0
59°	8.1	12.8	17.9	21.3	28.1	38.7	831.1	4008.8	4379.1	4408.4
60°	6.8	11.5	15.7	20.0	25.9	36.6	810.3	3937.8	4333.2	4365.9
62.5°	5.1	8.9	11.5	16.2	21.3	31.5	711.6	3690.0	4157.6	4180.6
65°	3.4	6.4	8.5	11.9	16.6	27.2	579.9	3368.6	3886.4	3937.8
67.5°	2.1	4.7	6.8	8.9	13.6	23.0	413.2	2888.6	3506.8	3539.9
70°	1.3	3.0	5.1	7.2	10.6	18.3	245.3	2283.3	2917.6	2924.4
72.5°	0.9	2.1	3.4	5.1	8.5	16.6	119.0	1488.3	2130.2	2211.4
75°	0.4	1.3	2.1	3.8	6.8	13.6	57.0	994.3	1550.0	1573.3
77.5°	0.0	0.4	1.3	2.6	5.1	10.6	33.2	653.0	1056.8	1081.1
80°	0.0	0.0	0.9	2.1	3.8	6.8	20.0	385.2	640.2	652.1
82.5°	0.0	0.0	0.4	1.7	2.6	5.1	10.2	169.2	419.2	423.4
85°	0.0	0.0	0.4	1.7	2.1	3.4	3.8	23.0	186.2	189.6
87.5°	0.0	0.0	0.4	2.1	2.1	2.1	2.1	1.3	15.7	19.6
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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