

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: P455306

Luminaire Tested: **GALN-SA6C-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455306
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-SA6C-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA 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: 25039 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

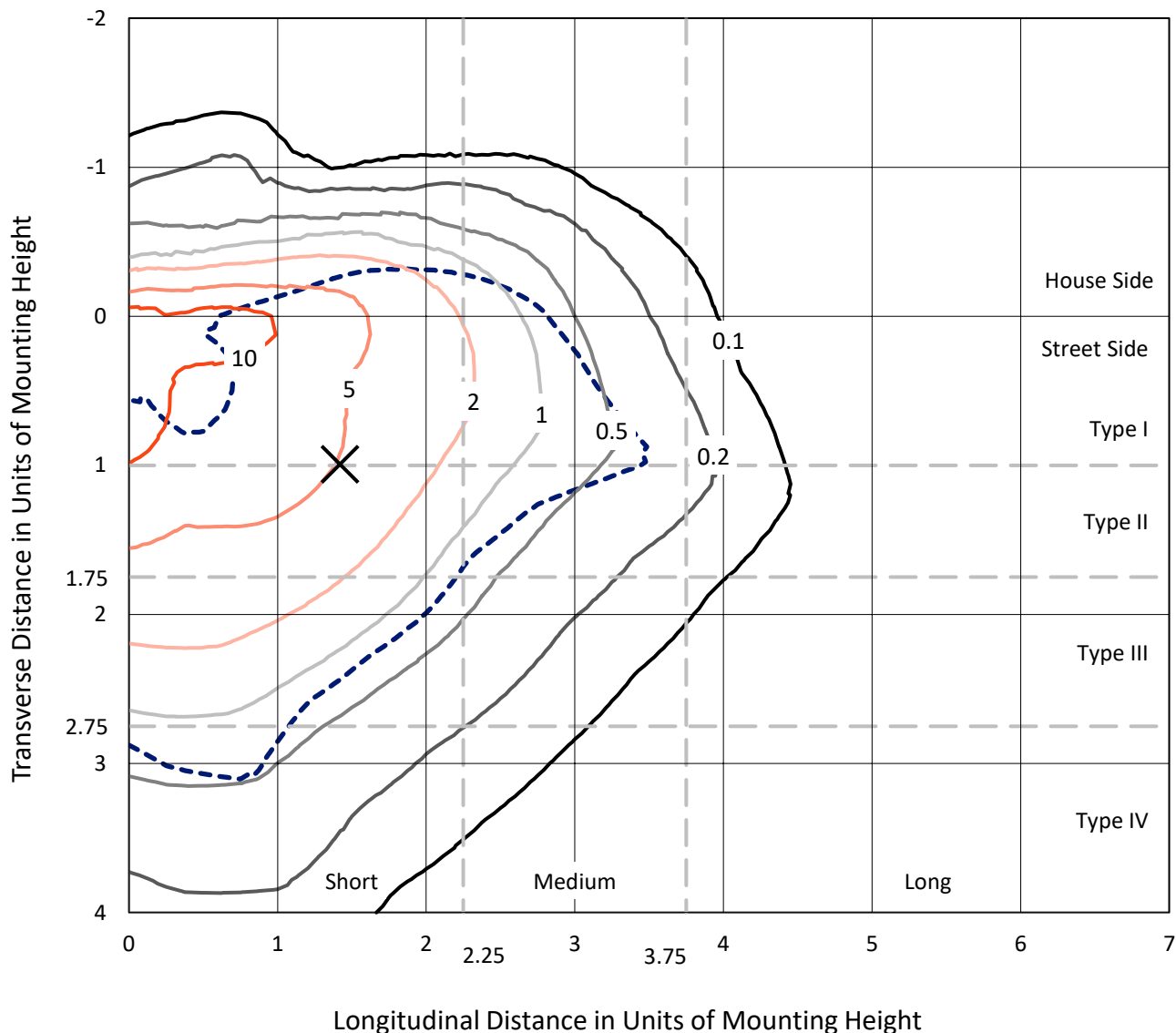
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

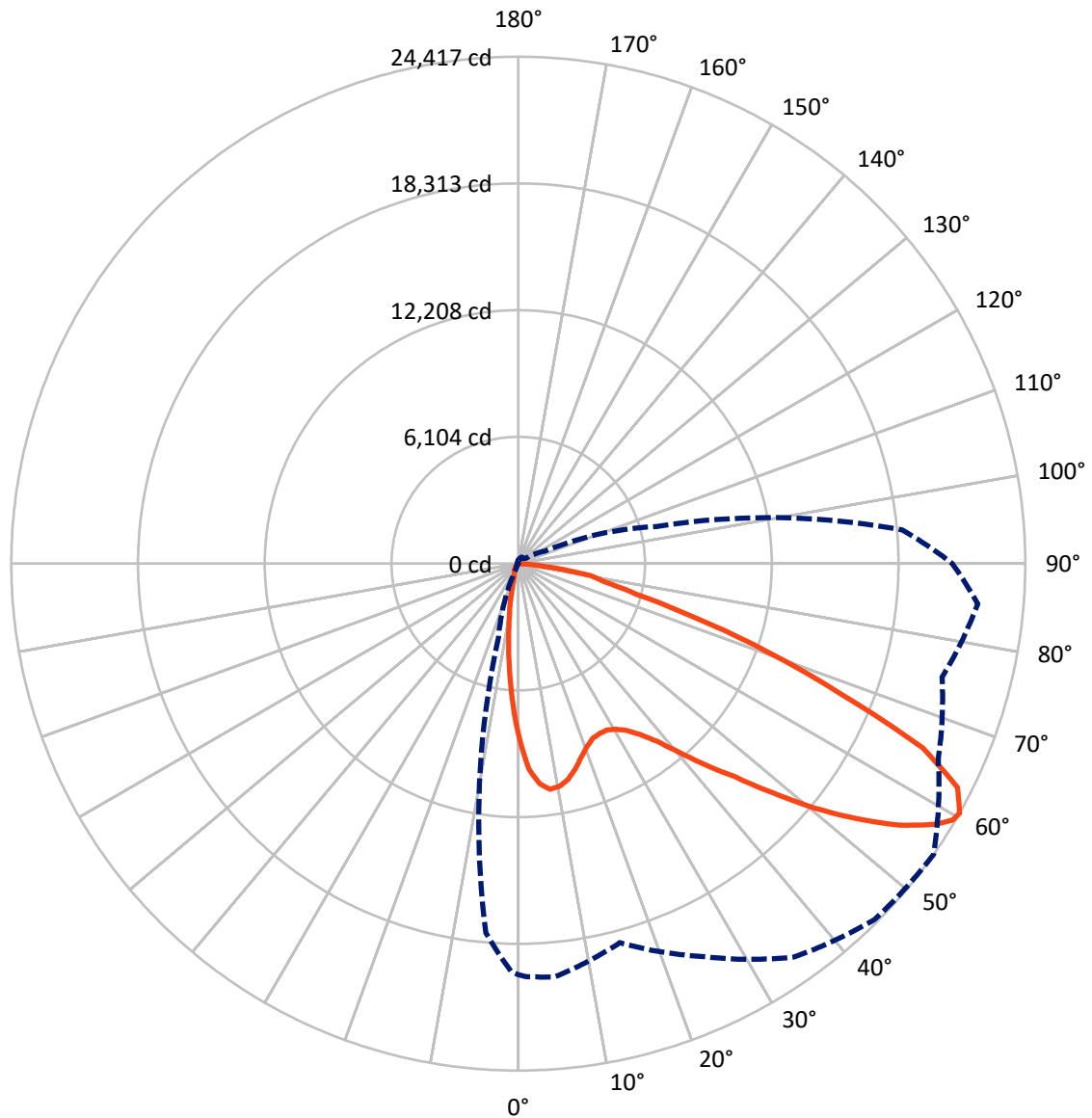
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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	3716.0	0.0	3716.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	21323.0	0.0	21323.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	25039.0	0.0	25039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.8	2.5
10°-20°	1236.3	4.9
20°-30°	1830.0	7.3
30°-40°	2727.8	10.9
40°-50°	3994.9	16.0
50°-60°	5767.3	23.0
60°-70°	6066.9	24.2
70°-80°	2495.7	10.0
80°-90°	292.3	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°	25039.0	100.0
0°-180°	25039.0	100.0

Coefficient of Utilization



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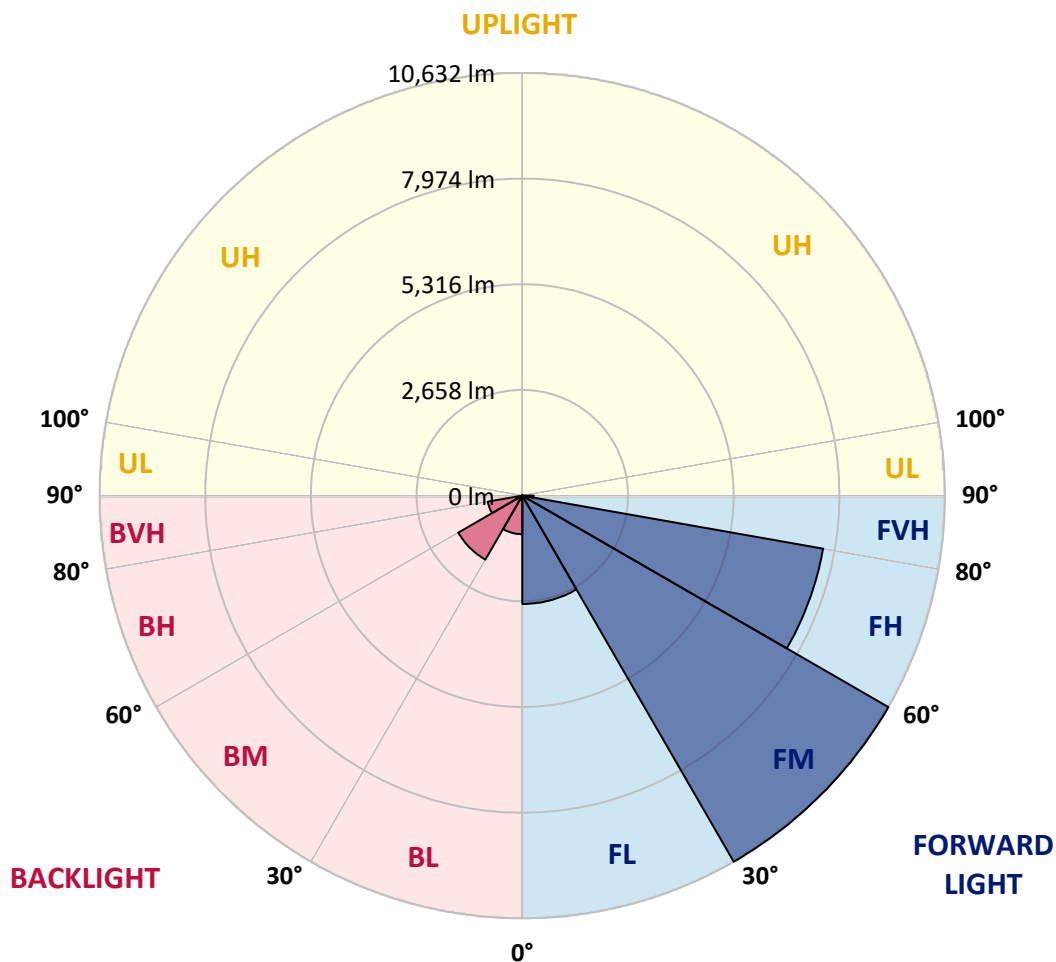
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2724.6	10.9			
FM (30°-60°)	10631.6	42.5			
FH (60°-80°)	7683.1	30.7			G4/12000
FVH (80°-90°)	283.7	1.1			G3/500
BL (0°-30°)	969.5	3.9	B2/1000		
BM (30°-60°)	1858.3	7.4	B2/2500		
BH (60°-80°)	879.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1
2.5°	9262.5	9247.1	9384.0	9607.5	9833.0	9950.6	9927.5	9917.8	9730.9	9594.0	9306.9
5°	9243.3	9322.3	9567.1	10172.2	10630.9	10852.6	10918.1	10642.5	10278.2	9750.1	9098.7
7.5°	8690.1	8788.4	9187.4	10133.7	10948.9	11430.7	11413.4	10972.0	10220.4	9403.2	8474.3
10°	8004.0	8119.7	8588.0	9736.7	10794.7	11430.7	11465.4	10906.5	9971.8	8923.3	7946.2
12.5°	7520.3	7657.1	8175.6	9366.6	10397.7	11024.1	11064.6	10659.8	9784.8	8738.3	7659.0
15°	7356.5	7485.6	8011.7	9179.7	9975.6	10312.9	10303.3	10260.9	9711.6	8782.6	7674.5
17.5°	7637.8	7743.8	8337.4	9264.5	9580.5	9545.9	9596.0	9800.3	9727.0	9154.6	8160.1
20°	8364.4	8472.4	9110.3	9524.7	9278.0	9058.2	9081.4	9422.5	9869.6	9854.2	8919.5
22.5°	9364.7	9547.8	10126.0	10029.6	9237.5	8755.7	8707.5	9150.8	10112.5	10659.8	9944.8
25°	10630.9	10815.9	11266.9	10835.2	9436.0	8684.4	8640.0	9067.9	10407.4	11446.2	11099.2
27.5°	11694.8	11835.5	12284.5	11619.6	9728.9	8715.2	8642.0	9079.4	10646.3	12114.9	12072.5
30°	12546.6	12650.7	12914.8	11985.8	9981.4	8850.1	8765.3	9249.1	10752.3	12440.6	12860.8
32.5°	13232.8	13408.1	13491.0	12377.0	10343.8	9104.5	8960.0	9574.8	11010.6	12843.4	13687.6
35°	14017.2	14219.5	14113.5	12750.9	10821.7	9501.5	9324.2	10102.8	11401.8	13215.4	14647.4
37.5°	15011.6	15244.8	14830.5	13144.1	11326.7	10099.0	10016.1	10844.8	11995.4	13747.3	15676.6
40°	16040.8	16175.7	15526.2	13622.1	11947.3	10968.2	11047.2	11947.3	12772.1	14385.3	16771.3
42.5°	16844.5	16971.7	16241.2	14022.9	12581.3	11999.3	12328.9	13277.1	13662.5	15038.6	17588.4
45°	17459.3	17567.2	16736.6	14460.4	13437.0	13492.9	14115.5	14647.4	14554.9	15437.6	18218.6
47.5°	17937.3	18029.8	17118.2	14930.7	14718.7	15320.0	16272.1	16497.6	15480.0	15869.3	18789.1
50°	18133.8	18160.8	17237.7	15530.1	16173.8	17648.2	18640.7	18503.9	16540.0	16349.2	19396.2
52.5°	18390.2	18384.4	17578.8	16100.6	17542.2	19729.6	20720.3	20410.0	17738.8	17068.1	20078.5
55°	19062.8	19070.5	18309.2	16910.0	18708.2	21410.2	22470.2	22244.7	19003.1	18282.2	20874.4
57.5°	19880.0	19908.9	19348.0	17856.3	19822.1	22628.3	23776.9	23690.2	20712.6	19633.3	21626.1
59°	19986.0	20043.8	19839.5	18523.2	20483.2	23002.2	24224.1	24308.9	21628.0	20523.7	22032.7
60°	19793.2	19889.6	19982.1	18900.9	20870.6	23137.1	24251.1	24416.8	22316.1	21128.8	22217.8
62.5°	18952.9	19105.2	19569.7	20063.1	21354.3	22716.9	23389.6	23736.5	23167.9	22718.9	22235.1
65°	17852.5	17931.5	18602.2	20269.3	20415.8	20755.0	20963.1	21408.3	22144.5	23331.7	21439.1
67.5°	16048.5	16281.7	17102.7	19072.4	17646.2	17245.4	17193.3	16750.1	18661.9	21870.9	19477.2
70°	13257.8	13361.9	14373.7	15636.1	13317.6	12700.8	12947.5	12781.8	14466.2	18827.7	15676.6
72.5°	10025.7	10260.9	11249.6	12463.8	9062.1	8262.3	8942.6	8880.9	10866.0	15131.1	10769.7
75°	7132.9	7285.1	8545.6	9754.0	6346.6	5377.1	5621.9	5851.2	7585.8	11947.3	6363.9
77.5°	4901.1	5032.1	5978.4	6450.6	4629.3	4434.7	4056.9	4278.6	4970.5	7088.6	3463.3
80°	2956.5	2950.7	3573.2	3688.8	3224.4	3744.7	3141.5	3526.9	3004.6	3033.5	1341.4
82.5°	1919.6	1900.3	2185.5	2382.1	1794.3	1886.8	1266.2	1825.1	1958.1	846.1	424.0
85°	859.6	896.2	1050.4	1385.7	786.3	418.2	258.3	560.8	834.5	425.9	0.0
87.5°	88.7	69.4	185.0	337.3	107.9	11.6	38.5	19.3	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°	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1
2.5°	9173.9	9062.1	8728.7	8416.5	8148.6	7820.9	7608.9	7275.5	7073.1	7011.5	7021.1
5°	8805.8	8483.9	7849.8	7343.0	6778.3	6456.4	5966.9	5496.6	5242.2	5147.8	5105.4
7.5°	8034.9	7689.9	6924.7	6128.8	5523.6	4958.9	4594.7	4180.3	3897.0	3663.8	3623.3
10°	7462.5	7009.5	6061.3	5205.6	4727.6	4303.6	3939.4	3525.0	3191.6	2925.6	2852.4
12.5°	7119.4	6612.5	5554.4	4837.5	4384.6	3949.0	3474.9	2995.0	2653.9	2366.7	2233.7
15°	7057.7	6469.9	5411.8	4573.5	4014.5	3488.4	2858.2	2339.7	1989.0	1717.2	1634.3
17.5°	7429.7	6726.2	5390.6	4297.9	3530.8	2784.9	2129.7	1699.9	1304.8	1152.5	1092.8
20°	8092.7	7179.1	5388.7	3977.9	3033.5	2145.1	1495.6	1108.2	948.2	875.0	840.3
22.5°	8996.6	7795.9	5490.8	3702.3	2517.0	1582.3	1067.7	882.7	790.2	730.4	717.0
25°	10100.9	8709.4	5741.4	3515.4	2121.9	1241.2	880.8	755.5	678.4	651.4	639.9
27.5°	11081.9	9584.4	6017.0	3322.6	1838.6	1098.6	817.2	691.9	630.2	609.0	591.7
30°	11928.0	10378.4	6150.0	3068.2	1611.2	1006.0	828.7	740.1	659.1	595.5	566.6
32.5°	12633.4	10987.5	6236.7	2837.0	1418.5	823.0	655.3	572.4	535.8	512.7	493.4
35°	13516.1	11646.6	6184.7	2705.9	1320.2	749.7	597.5	493.4	431.7	385.5	366.2
37.5°	14441.2	12305.7	6094.1	2598.0	1275.9	695.8	568.5	468.3	400.9	352.7	327.6
40°	15399.0	12916.7	5988.1	2497.8	1235.4	661.1	551.2	447.1	379.7	327.6	300.7
42.5°	16275.9	13512.2	5945.7	2432.2	1169.9	666.8	537.7	437.5	358.5	304.5	281.4
45°	16985.2	14076.9	6003.5	2397.5	1098.6	657.2	541.6	425.9	341.1	289.1	266.0
47.5°	17742.6	14874.8	6190.4	2362.9	1029.2	611.0	570.5	424.0	333.4	279.5	254.4
50°	18623.4	15896.3	6618.3	2278.1	944.4	560.8	607.1	422.1	323.8	267.9	242.8
52.5°	19797.1	17056.5	7059.7	2129.7	821.0	512.7	580.1	416.3	304.5	254.4	229.3
55°	20851.3	18278.4	7433.5	1954.3	664.9	443.3	522.3	391.2	271.7	231.3	208.1
57.5°	21286.9	18968.4	7422.0	1711.4	531.9	389.3	429.8	358.5	237.1	204.3	185.0
59°	21126.9	18881.6	7173.4	1532.2	485.7	360.4	356.5	354.6	221.6	185.0	169.6
60°	20901.4	18565.6	6905.5	1443.5	456.8	341.1	327.6	350.8	208.1	173.5	158.0
62.5°	20038.0	17255.0	6017.0	1293.2	418.2	289.1	262.1	296.8	185.0	150.3	136.8
65°	18787.2	15241.0	5093.8	1250.8	406.7	239.0	217.8	212.0	158.0	127.2	115.6
67.5°	16347.2	12897.4	4126.3	1221.9	410.5	200.4	190.8	160.0	131.1	106.0	98.3
70°	13088.2	10056.6	3378.5	1189.1	414.4	163.8	160.0	127.2	106.0	88.7	80.9
72.5°	7952.0	5961.1	2659.7	1033.0	402.8	131.1	142.6	96.4	77.1	63.6	59.7
75°	4916.5	4080.1	1649.8	803.7	266.0	96.4	100.2	59.7	52.0	40.5	40.5
77.5°	2848.5	2576.8	589.7	289.1	117.6	57.8	44.3	30.8	28.9	17.3	17.3
80°	1181.4	946.3	204.3	98.3	63.6	27.0	9.6	1.9	0.0	0.0	0.0
82.5°	345.0	306.4	55.9	44.3	19.3	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°	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1
2.5°	6857.3	6793.7	6764.8	6863.1	6772.5	6888.1	6799.5	6838.0	6951.7	7001.8	7131.0
5°	5132.4	5066.8	5036.0	5184.4	5176.7	5249.9	5242.2	5309.7	5367.5	5238.4	5371.3
7.5°	3575.1	3530.8	3604.0	3719.7	3843.0	3802.5	3802.5	3712.0	3742.8	3723.5	3717.7
10°	2719.4	2567.1	2528.6	2524.7	2571.0	2580.6	2528.6	2403.3	2449.6	2463.1	2544.0
12.5°	2139.3	2021.7	1842.5	1761.5	1740.3	1757.7	1586.2	1476.3	1528.3	1497.5	1576.5
15°	1534.1	1437.8	1331.8	1241.2	1216.1	1181.4	994.5	863.4	848.0	853.8	867.3
17.5°	1094.7	1029.2	1029.2	932.8	880.8	776.7	682.3	624.4	618.7	624.4	634.1
20°	807.5	772.8	769.0	743.9	686.1	616.7	551.2	539.6	535.8	545.4	549.3
22.5°	695.8	659.1	628.3	626.4	572.4	514.6	483.7	468.3	470.3	474.1	483.7
25°	622.5	584.0	551.2	531.9	493.4	452.9	424.0	416.3	416.3	422.1	424.0
27.5°	570.5	522.3	493.4	466.4	431.7	397.0	372.0	366.2	362.3	366.2	375.8
30°	533.9	485.7	449.1	408.6	381.6	348.8	327.6	319.9	318.0	319.9	327.6
32.5°	456.8	427.9	398.9	362.3	329.6	308.4	285.2	271.7	271.7	275.6	283.3
35°	345.0	329.6	327.6	318.0	291.0	267.9	240.9	227.4	227.4	235.1	239.0
37.5°	304.5	275.6	271.7	267.9	256.3	225.5	200.4	188.9	186.9	192.7	200.4
40°	277.5	244.8	227.4	223.6	225.5	190.8	163.8	152.3	152.3	154.2	161.9
42.5°	256.3	217.8	186.9	183.1	190.8	160.0	133.0	121.4	121.4	121.4	131.1
45°	239.0	194.7	158.0	138.8	150.3	131.1	107.9	96.4	92.5	96.4	100.2
47.5°	227.4	177.3	138.8	111.8	111.8	104.1	86.7	73.2	69.4	71.3	77.1
50°	217.8	161.9	117.6	90.6	80.9	82.9	65.5	55.9	52.0	52.0	57.8
52.5°	202.4	146.5	102.1	77.1	61.7	55.9	48.2	40.5	38.5	40.5	44.3
55°	183.1	133.0	88.7	63.6	48.2	38.5	34.7	28.9	27.0	28.9	34.7
57.5°	161.9	111.8	71.3	50.1	32.8	25.1	23.1	19.3	15.4	17.3	21.2
59°	148.4	100.2	61.7	40.5	25.1	17.3	17.3	13.5	9.6	11.6	17.3
60°	142.6	92.5	52.0	34.7	21.2	13.5	13.5	9.6	5.8	7.7	13.5
62.5°	121.4	77.1	40.5	21.2	9.6	1.9	5.8	1.9	0.0	1.9	5.8
65°	102.1	61.7	27.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	1.9
67.5°	84.8	46.3	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	67.5	30.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	46.3	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	28.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.6	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: P455306
 CATALOG NUMBER: GALN-SA6C-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1
2.5°	7138.7	7414.3	7583.9	7903.8	8231.4	8483.9	8800.0	9083.3	9200.9	9262.5
5°	5506.3	5889.8	6215.5	6703.1	7156.0	7707.2	8266.1	8925.3	9177.7	9243.3
7.5°	3864.2	4255.5	4596.6	5161.3	5806.9	6545.1	7381.5	8218.0	8586.1	8690.1
10°	2790.7	3208.9	3625.2	4189.9	4793.2	5593.0	6464.1	7499.1	7923.1	8004.0
12.5°	1761.5	2210.6	2887.1	3584.8	4222.7	4866.4	5778.0	6903.5	7371.9	7520.3
15°	1021.5	1356.8	1867.5	2777.2	3588.6	4440.5	5434.9	6680.0	7204.2	7356.5
17.5°	684.2	799.8	1150.6	1846.3	2917.9	4047.3	5348.2	6863.1	7443.2	7637.8
20°	576.3	628.3	751.6	1125.5	2247.2	3696.5	5371.3	7360.3	8121.6	8364.4
22.5°	506.9	555.1	634.1	809.5	1568.8	3261.0	5481.2	8071.5	9054.4	9364.7
25°	447.1	495.3	564.7	670.7	1054.2	2757.9	5722.1	9112.2	10289.8	10630.9
27.5°	397.0	441.3	501.1	591.7	811.4	2197.1	5936.0	10126.0	11417.2	11694.8
30°	350.8	387.4	445.2	514.6	674.6	1694.1	6044.0	11012.5	12238.3	12546.6
32.5°	304.5	339.2	395.1	451.0	555.1	1291.3	5968.8	11663.9	13036.2	13232.8
35°	260.2	296.8	343.1	395.1	479.9	1042.7	5593.0	12396.3	13863.0	14017.2
37.5°	223.6	254.4	302.6	343.1	433.6	834.5	5138.1	13055.4	14790.0	15011.6
40°	188.9	219.7	267.9	304.5	398.9	657.2	4727.6	13787.8	15767.1	16040.8
42.5°	154.2	190.8	233.2	292.9	343.1	501.1	4230.4	14381.4	16501.4	16844.5
45°	123.3	163.8	210.1	291.0	298.7	381.6	3750.5	14844.0	17150.9	17459.3
47.5°	98.3	138.8	202.4	271.7	244.8	302.6	3476.8	15327.7	17690.6	17937.3
50°	79.0	115.6	212.0	239.0	204.3	256.3	3469.1	15867.4	17970.0	18133.8
52.5°	63.6	94.4	179.2	183.1	173.5	225.5	3677.3	16474.5	18255.3	18390.2
55°	54.0	79.0	117.6	134.9	156.1	204.3	3833.4	17409.2	18935.6	19062.8
57.5°	42.4	67.5	90.6	107.9	138.8	186.9	3854.6	18130.0	19797.1	19880.0
59°	36.6	57.8	80.9	96.4	127.2	175.4	3767.8	18174.3	19853.0	19986.0
60°	30.8	52.0	71.3	90.6	117.6	165.7	3673.4	17852.5	19644.8	19793.2
62.5°	23.1	40.5	52.0	73.2	96.4	142.6	3226.3	16728.9	18848.9	18952.9
65°	15.4	28.9	38.5	54.0	75.2	123.3	2628.8	15271.8	17619.3	17852.5
67.5°	9.6	21.2	30.8	40.5	61.7	104.1	1873.3	13095.9	15898.2	16048.5
70°	5.8	13.5	23.1	32.8	48.2	82.9	1112.0	10351.5	13227.0	13257.8
72.5°	3.9	9.6	15.4	23.1	38.5	75.2	539.6	6747.4	9657.6	10025.7
75°	1.9	5.8	9.6	17.3	30.8	61.7	258.3	4507.9	7026.9	7132.9
77.5°	0.0	1.9	5.8	11.6	23.1	48.2	150.3	2960.3	4791.2	4901.1
80°	0.0	0.0	3.9	9.6	17.3	30.8	90.6	1746.1	2902.5	2956.5
82.5°	0.0	0.0	1.9	7.7	11.6	23.1	46.3	767.1	1900.3	1919.6
85°	0.0	0.0	1.9	7.7	9.6	15.4	17.3	104.1	844.2	859.6
87.5°	0.0	0.0	1.9	9.6	9.6	9.6	9.6	5.8	71.3	88.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)