

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: P531459

Luminaire Tested: **GALN-SA6D-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531459
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-SA6D-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH 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: 23096 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

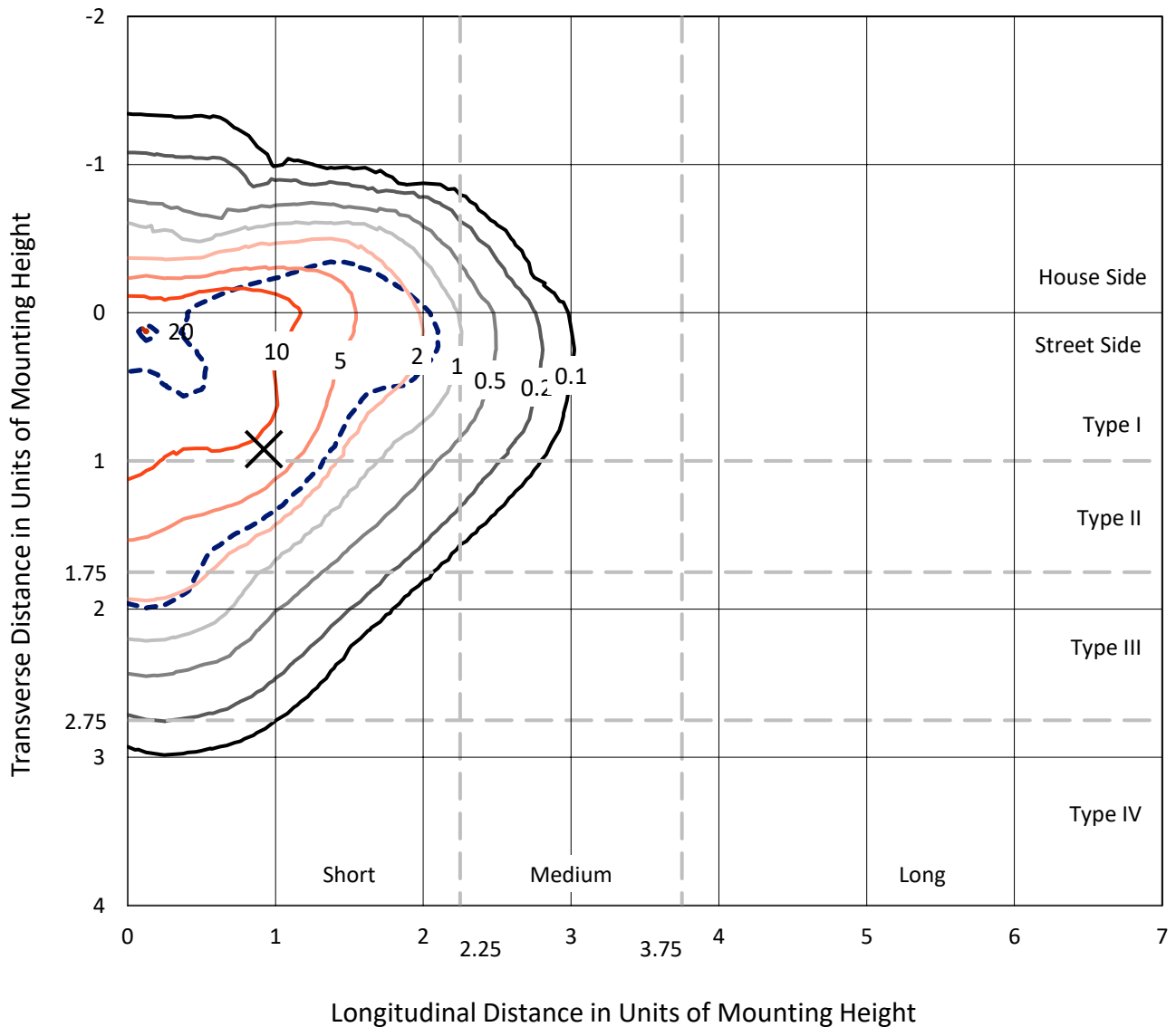
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

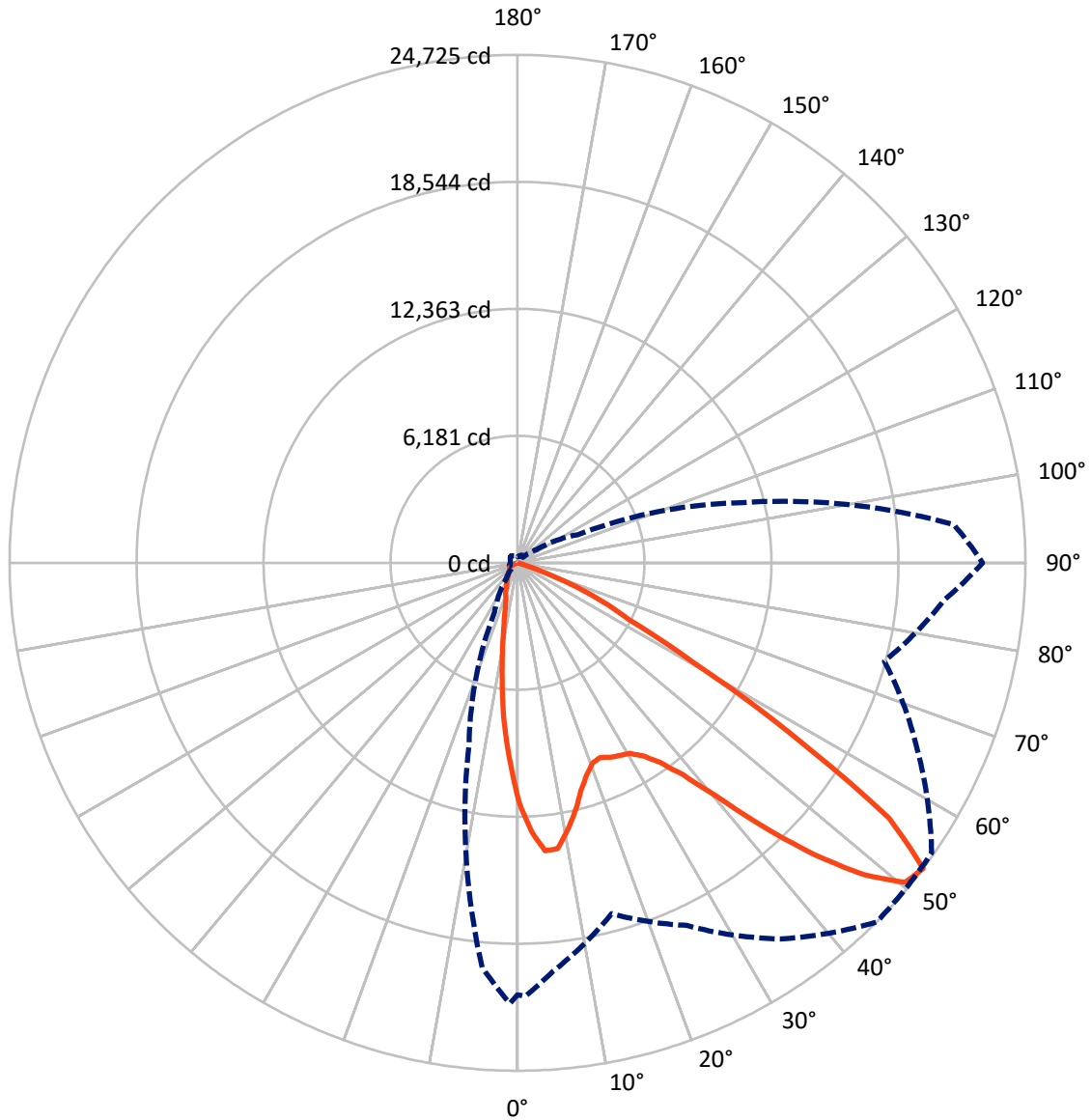
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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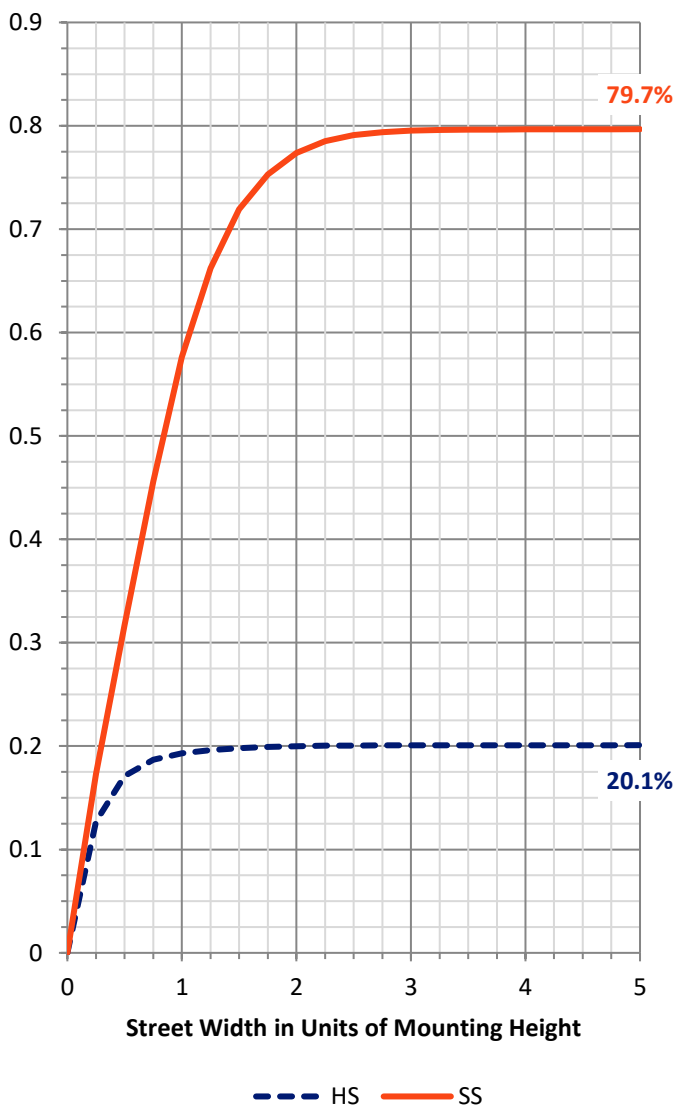
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4687.3	0.0	4687.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	18408.7	0.0	18408.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	23096.0	0.0	23096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.1	3.7
10°-20°	1685.0	7.3
20°-30°	2564.3	11.1
30°-40°	3832.6	16.6
40°-50°	5458.0	23.6
50°-60°	5867.2	25.4
60°-70°	2599.9	11.3
70°-80°	210.4	0.9
80°-90°	24.5	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°	23096.0	100.0
0°-180°	23096.0	100.0

Coefficient of Utilization



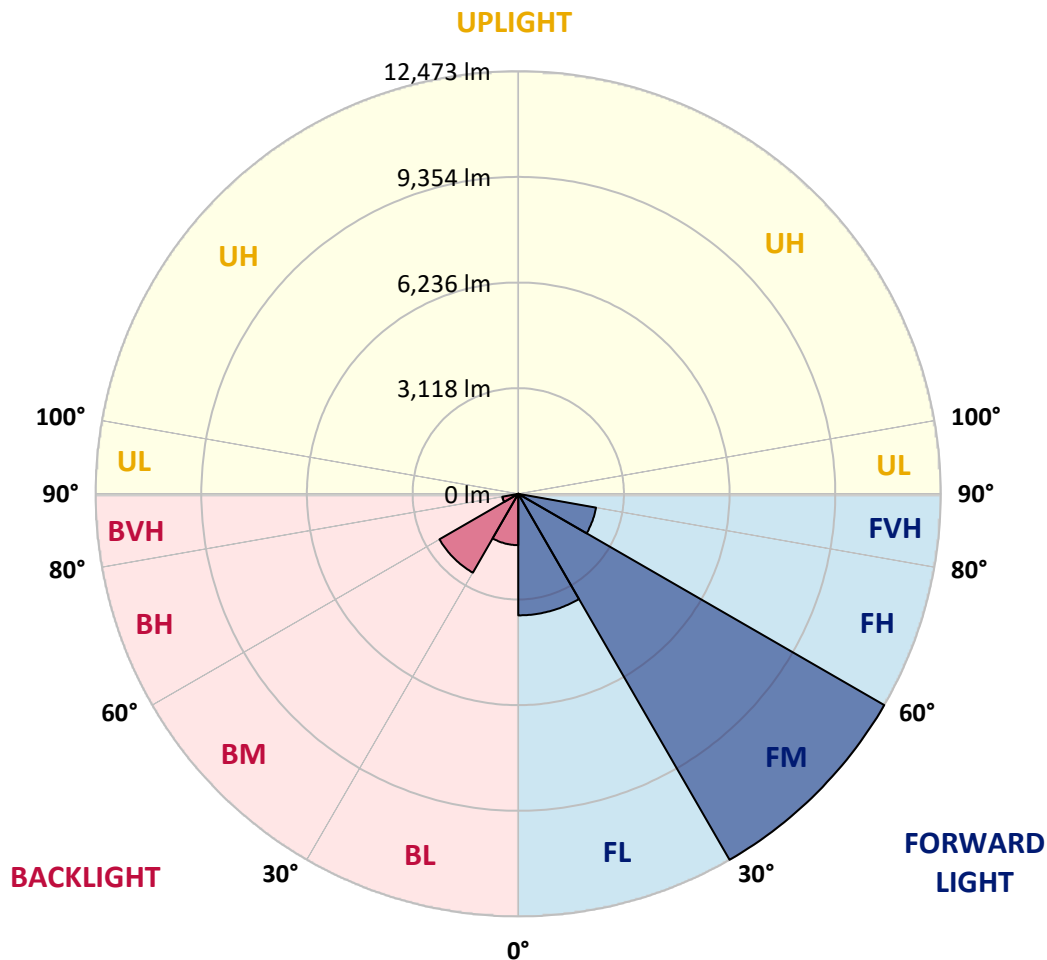
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3587.3	15.5			
FM (30°-60°)	12472.6	54.0			
FH (60°-80°)	2330.7	10.1			G2/5000
FVH (80°-90°)	18.2	0.1			G1/100
BL (0°-30°)	1516.1	6.6	B3/2500		
BM (30°-60°)	2685.3	11.6	B3/5000		
BH (60°-80°)	479.6	2.1	B1/500		G1/500
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7
2.5°	12392.1	12428.5	12628.3	12878.2	13009.9	13309.7	13100.8	13155.3	13041.7	12642.0	12328.5
5°	12015.1	12010.6	12264.9	12882.7	13468.7	14063.8	14082.0	13764.0	13205.3	12592.0	11715.3
7.5°	10879.5	11056.6	11320.1	12305.8	13391.5	13836.7	14050.2	13677.7	12819.1	11942.4	10993.0
10°	10020.9	10111.8	10556.9	11747.1	12542.0	13137.1	13268.8	13055.3	12396.7	11301.9	10239.0
12.5°	9525.8	9571.2	10093.6	11093.0	11933.3	12374.0	12437.6	12537.5	12065.1	11038.4	9762.0
15°	9530.3	9566.7	10270.8	11106.6	11438.2	11320.1	11529.0	11524.5	11728.9	10988.5	10161.7
17.5°	10216.2	10257.1	10893.1	11306.5	11161.1	10884.0	10870.4	11079.3	11510.9	11610.8	10765.9
20°	11397.3	11492.7	11960.6	11937.9	11120.2	10561.5	10407.0	10566.0	11569.9	12137.7	11983.3
22.5°	12987.2	13118.9	13446.0	12819.1	11306.5	10343.4	10293.5	10602.4	11960.6	13314.3	13364.2
25°	14831.5	15054.1	15213.1	14409.0	11969.7	10720.5	10484.3	11015.7	12487.5	14590.7	15122.2
27.5°	16053.4	16285.1	16248.8	15099.5	12414.8	10820.4	10620.5	11115.7	12946.3	14895.1	16039.8
30°	17007.4	17148.2	17402.6	15472.0	12860.0	11102.0	10761.3	11538.1	13096.2	15422.0	17148.2
32.5°	18120.3	18215.7	18233.9	16130.7	13545.9	11456.4	11197.4	12065.1	13759.4	15926.3	18129.4
35°	19242.3	19383.1	19087.9	16943.8	13968.4	12115.0	11924.2	12978.1	14290.9	16448.6	19210.5
37.5°	20459.7	20532.4	19851.0	17279.9	14572.6	13187.1	13082.6	13963.9	15213.1	17393.5	20409.8
40°	21481.8	21550.0	20664.2	17693.3	15208.5	14686.1	14954.1	15844.5	16466.8	18006.7	21009.4
42.5°	22049.6	22208.6	20936.7	17466.2	16485.0	16385.1	17575.2	17888.6	17920.4	18179.4	21545.4
45°	22204.1	22131.4	20487.0	17652.4	17602.5	19178.7	20259.9	20673.2	19365.0	18497.3	21681.7
47.5°	21490.9	21586.3	19823.8	17488.9	19069.7	21295.6	22694.7	23462.4	20441.6	18220.2	21345.5
50°	20914.0	20791.3	19610.3	17370.8	19464.9	22294.9	24452.7	24625.3	21431.8	18560.9	20977.6
52.5°	21027.6	21104.8	19951.0	17684.2	19474.0	22354.0	24725.2	24607.1	21463.6	18483.7	20845.9
55°	21268.3	20927.6	19805.6	16993.8	18170.3	20705.0	21945.2	21763.5	19810.1	17661.5	20523.3
57.5°	18352.0	18878.9	18211.2	15172.2	14913.3	15599.2	15576.5	16135.2	14777.0	15199.4	18683.6
60°	14895.1	14985.9	15235.8	12978.1	10320.7	10084.5	9757.4	9403.1	9943.7	12996.3	16993.8
62.5°	13100.8	12991.8	13882.1	11806.1	7286.3	6100.7	6046.2	6264.2	7672.4	12396.7	15939.9
65°	9521.2	9657.5	10302.5	9162.4	5469.3	4656.1	4574.4	5219.4	6209.7	9934.6	12165.0
67.5°	5814.5	6078.0	6137.0	5651.0	3711.3	2948.1	2830.0	3416.0	4483.5	6427.7	7131.8
70°	2684.7	3002.6	3302.4	3084.4	2148.6	1212.9	1144.7	1435.5	2262.2	3697.7	3784.0
72.5°	813.1	817.7	1144.7	1194.7	695.0	272.6	240.8	318.0	767.7	1222.0	1285.5
75°	59.1	63.6	154.4	177.2	131.7	68.1	72.7	86.3	163.5	272.6	204.4
77.5°	4.5	4.5	4.5	22.7	40.9	45.4	59.1	68.1	86.3	99.9	90.9
80°	4.5	0.0	4.5	18.2	31.8	45.4	54.5	63.6	68.1	77.2	68.1
82.5°	0.0	0.0	0.0	13.6	31.8	45.4	50.0	68.1	77.2	90.9	77.2
85°	0.0	0.0	0.0	13.6	31.8	50.0	45.4	22.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7
2.5°	12383.0	12205.9	11801.6	11597.2	11115.7	11047.5	10575.1	10497.9	10338.9	10252.6	10043.6
5°	11329.2	11115.7	10457.0	9902.8	9257.8	8808.0	8462.8	8149.4	7967.7	7799.6	7876.8
7.5°	10470.6	9848.3	9116.9	8190.3	7445.3	6963.8	6436.8	6005.3	5750.9	5578.3	5619.2
10°	9571.2	9166.9	8149.4	7109.1	6209.7	5869.0	5455.6	5124.0	4765.2	4456.3	4310.9
12.5°	9289.6	8689.9	7413.5	6355.1	5673.7	5342.1	4869.6	4488.1	4029.3	3652.2	3520.5
15°	9339.5	8762.6	7213.6	6082.5	5278.5	4706.1	4142.8	3670.4	3166.2	2902.7	2766.4
17.5°	10152.6	9153.3	7345.3	5796.3	4728.8	3933.9	3238.9	2639.2	2262.2	1989.6	1930.6
20°	11152.0	9998.2	7627.0	5587.4	4279.1	3129.8	2366.7	1848.8	1535.4	1490.0	1476.3
22.5°	12614.7	11379.1	8231.1	5446.5	3729.5	2439.4	1621.7	1344.6	1258.3	1249.2	1253.7
25°	14658.9	13109.9	8889.8	5328.4	3316.1	1880.6	1326.4	1140.2	1112.9	1099.3	1122.0
27.5°	15544.7	14154.6	9239.6	5074.1	2939.0	1694.4	1308.3	1131.1	1053.9	1031.2	1044.8
30°	16639.4	14849.7	9789.2	4638.0	2384.8	1394.6	1222.0	1231.0	1194.7	1081.1	1044.8
32.5°	18093.1	15717.3	10066.3	4329.1	2130.5	1153.8	894.9	822.2	917.6	935.8	967.6
35°	19024.3	16598.6	10207.2	4147.4	1998.7	985.7	758.6	690.5	667.8	672.3	690.5
37.5°	20755.0	17788.7	10384.3	3956.6	1898.8	858.5	685.9	622.3	590.5	590.5	608.7
40°	21790.7	18733.6	10625.1	3852.1	1798.9	781.3	622.3	567.8	540.6	540.6	549.7
42.5°	22049.6	19201.4	10543.3	3815.8	1685.3	763.2	567.8	526.9	495.1	490.6	486.1
45°	22513.0	19914.6	10556.9	3774.9	1567.2	695.0	536.0	490.6	445.2	440.6	436.1
47.5°	23021.7	20427.9	10584.2	3615.9	1453.6	581.4	558.7	454.3	399.7	390.7	390.7
50°	22585.7	20836.8	10820.4	3456.9	1308.3	472.4	549.7	427.0	354.3	340.7	345.2
52.5°	22640.2	21318.3	11320.1	3234.3	1126.6	377.0	445.2	404.3	322.5	299.8	304.4
55°	21768.0	20809.5	11388.2	2998.1	881.3	290.7	340.7	354.3	272.6	263.5	263.5
57.5°	18738.1	17620.6	10048.2	2430.3	581.4	240.8	245.3	308.9	236.2	227.1	231.7
60°	16035.3	14145.6	8085.8	1603.5	363.4	190.8	177.2	313.4	209.0	204.4	218.0
62.5°	14618.0	11624.4	6132.5	994.8	249.8	145.4	122.6	254.4	181.7	181.7	199.9
65°	10561.5	7808.7	3565.9	522.4	177.2	113.6	90.9	145.4	149.9	154.4	163.5
67.5°	6541.3	3943.0	1503.6	254.4	118.1	77.2	59.1	90.9	99.9	99.9	109.0
70°	3229.8	1571.7	499.7	145.4	90.9	63.6	40.9	50.0	50.0	45.4	50.0
72.5°	999.4	472.4	127.2	90.9	63.6	40.9	22.7	18.2	9.1	0.0	4.5
75°	113.6	90.9	81.8	63.6	40.9	18.2	4.5	0.0	0.0	0.0	0.0
77.5°	68.1	77.2	77.2	63.6	40.9	13.6	0.0	0.0	0.0	0.0	0.0
80°	54.5	59.1	63.6	59.1	36.3	18.2	0.0	0.0	0.0	0.0	0.0
82.5°	68.1	77.2	86.3	77.2	50.0	22.7	9.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	13.6	4.5	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°	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7
2.5°	9957.3	9857.4	9998.2	9789.2	9784.7	9789.2	9730.2	9675.7	9762.0	9993.7	10016.4
5°	7599.7	7813.2	7881.4	8103.9	7981.3	7799.6	7835.9	7713.3	8013.1	8144.8	8040.3
7.5°	5532.9	5519.2	5978.0	6005.3	6064.3	6068.9	6059.8	5819.0	5573.7	5628.2	5791.8
10°	4292.7	4061.1	4283.6	4260.9	4406.3	4365.4	4424.5	4165.5	4251.8	4251.8	4356.3
12.5°	3497.8	3252.5	3211.6	3152.5	3211.6	3234.3	3257.0	3207.1	3352.4	3420.6	3493.2
15°	2671.0	2534.8	2498.4	2384.8	2403.0	2466.6	2521.1	2543.8	2498.4	2602.9	2612.0
17.5°	1939.7	1935.1	1957.8	1953.3	1935.1	1921.5	1917.0	1857.9	1839.7	1848.8	1885.2
20°	1471.8	1508.1	1585.4	1662.6	1703.5	1653.5	1585.4	1485.4	1444.5	1453.6	1458.2
22.5°	1258.3	1312.8	1417.3	1503.6	1544.5	1453.6	1331.0	1244.7	1226.5	1222.0	1217.4
25°	1140.2	1203.8	1281.0	1308.3	1303.7	1249.2	1158.4	1122.0	1112.9	1103.8	1063.0
27.5°	1076.6	1099.3	1112.9	1144.7	1158.4	1122.0	1099.3	1044.8	1035.7	1035.7	1008.5
30°	1040.2	1026.6	1044.8	1022.1	1040.2	1013.0	1017.5	1017.5	994.8	1003.9	1003.9
32.5°	967.6	972.1	972.1	926.7	940.3	908.5	940.3	967.6	972.1	976.7	1013.0
35°	708.6	790.4	831.3	831.3	844.9	822.2	817.7	785.9	745.0	704.1	685.9
37.5°	622.3	654.1	708.6	740.4	763.2	745.0	704.1	654.1	631.4	613.2	595.1
40°	554.2	581.4	617.8	654.1	699.6	676.8	613.2	590.5	563.3	563.3	545.1
42.5°	499.7	513.3	536.0	590.5	640.5	595.1	549.7	531.5	517.9	513.3	508.8
45°	449.7	454.3	477.0	522.4	581.4	536.0	490.6	467.9	472.4	477.0	472.4
47.5°	404.3	413.4	427.0	481.5	517.9	495.1	445.2	431.5	431.5	431.5	436.1
50°	349.8	372.5	399.7	445.2	472.4	458.8	417.9	399.7	390.7	390.7	395.2
52.5°	313.4	331.6	367.9	422.5	458.8	436.1	395.2	367.9	349.8	345.2	354.3
55°	272.6	304.4	363.4	404.3	454.3	431.5	386.1	354.3	322.5	318.0	318.0
57.5°	245.3	295.3	349.8	399.7	440.6	422.5	386.1	345.2	304.4	299.8	299.8
60°	231.7	286.2	340.7	386.1	440.6	413.4	381.6	336.2	290.7	290.7	286.2
62.5°	218.0	268.0	322.5	367.9	422.5	399.7	367.9	322.5	277.1	277.1	268.0
65°	181.7	231.7	268.0	308.9	367.9	345.2	313.4	281.6	245.3	236.2	240.8
67.5°	127.2	159.0	195.3	236.2	272.6	263.5	249.8	227.1	195.3	190.8	186.2
70°	63.6	86.3	118.1	159.0	190.8	181.7	172.6	154.4	136.3	131.7	131.7
72.5°	9.1	27.3	50.0	72.7	99.9	104.5	99.9	95.4	90.9	86.3	90.9
75°	0.0	0.0	0.0	18.2	40.9	50.0	59.1	68.1	68.1	59.1	72.7
77.5°	0.0	0.0	0.0	0.0	4.5	22.7	45.4	59.1	72.7	63.6	86.3
80°	0.0	0.0	0.0	0.0	4.5	27.3	45.4	63.6	72.7	63.6	90.9
82.5°	0.0	0.0	0.0	0.0	4.5	31.8	45.4	59.1	68.1	63.6	81.8
85°	0.0	0.0	0.0	0.0	13.6	27.3	18.2	9.1	4.5	4.5	13.6
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: P531459

CATALOG NUMBER: GALN-SA6D-730-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7	11710.7
2.5°	10143.6	10466.1	10811.3	10943.1	11351.9	11660.8	11869.7	12319.4	12387.6	12392.1
5°	8149.4	8312.9	8903.4	9180.5	9789.2	10261.7	10765.9	11492.7	11978.8	12015.1
7.5°	5791.8	6246.0	6495.9	7218.1	7967.7	8708.1	9457.6	10302.5	10865.8	10879.5
10°	4660.7	4955.9	5401.1	5941.7	6573.1	7327.2	8326.5	9307.7	9880.1	10020.9
12.5°	3752.2	4270.0	4778.8	5337.5	5819.0	6386.9	7463.4	8771.7	9244.1	9525.8
15°	2889.1	3361.5	3961.1	4615.3	5160.4	5919.0	7145.5	8640.0	9434.9	9530.3
17.5°	2130.5	2552.9	3107.1	3724.9	4542.6	5619.2	7200.0	9307.7	10057.3	10216.2
20°	1530.8	1776.1	2212.2	2930.0	3970.2	5269.4	7254.5	9984.6	11124.8	11397.3
22.5°	1212.9	1312.8	1599.0	2234.9	3329.7	4901.4	7640.6	11279.2	12592.0	12987.2
25°	1053.9	1108.4	1244.7	1762.5	2925.4	4865.1	8258.4	12832.8	14545.3	14831.5
27.5°	1017.5	1026.6	1144.7	1617.2	2707.4	4624.3	8494.6	13936.6	15762.7	16053.4
30°	1072.0	1217.4	1226.5	1367.3	2303.1	4147.4	8617.3	15004.1	16793.9	17007.4
32.5°	926.7	881.3	913.1	1058.4	2026.0	3870.3	8848.9	15935.3	17970.4	18120.3
35°	645.0	676.8	749.5	917.6	1771.6	3579.5	8908.0	16962.0	19087.9	19242.3
37.5°	595.1	613.2	672.3	781.3	1558.1	3416.0	8826.2	17711.5	20246.2	20459.7
40°	554.2	576.9	608.7	708.6	1399.1	3234.3	8712.6	18388.3	20954.9	21481.8
42.5°	522.4	540.6	567.8	676.8	1262.8	3052.6	8553.7	19342.3	21590.8	22049.6
45°	486.1	513.3	545.1	658.7	1185.6	2930.0	8435.6	19283.2	21958.8	22204.1
47.5°	449.7	495.1	531.5	613.2	1162.9	2870.9	8485.5	19060.6	21659.0	21490.9
50°	413.4	472.4	536.0	508.8	1108.4	2752.8	8544.6	19365.0	20945.8	20914.0
52.5°	381.6	449.7	499.7	417.9	985.7	2639.2	9116.9	19764.7	21450.0	21027.6
55°	336.2	404.3	399.7	336.2	799.5	2552.9	9566.7	19773.8	21109.3	21268.3
57.5°	304.4	358.9	313.4	281.6	590.5	2135.0	8835.3	16580.4	18070.3	18352.0
60°	281.6	349.8	236.2	222.6	386.1	1539.9	7713.3	12841.8	14363.6	14895.1
62.5°	258.9	331.6	186.2	181.7	268.0	1094.8	6341.4	10747.7	12378.5	13100.8
65°	227.1	236.2	149.9	140.8	190.8	590.5	3861.2	7399.8	9253.2	9521.2
67.5°	186.2	181.7	122.6	113.6	127.2	286.2	1703.5	3706.7	5364.8	5814.5
70°	149.9	149.9	104.5	90.9	90.9	131.7	445.2	1476.3	2425.7	2684.7
72.5°	109.0	113.6	81.8	72.7	68.1	63.6	72.7	295.3	636.0	813.1
75°	95.4	99.9	81.8	63.6	50.0	40.9	31.8	27.3	36.3	59.1
77.5°	104.5	104.5	86.3	59.1	45.4	31.8	18.2	9.1	9.1	4.5
80°	131.7	136.3	113.6	77.2	54.5	36.3	22.7	9.1	4.5	4.5
82.5°	140.8	154.4	127.2	95.4	68.1	40.9	22.7	4.5	0.0	0.0
85°	36.3	59.1	99.9	86.3	68.1	40.9	22.7	4.5	0.0	0.0
87.5°	0.0	4.5	13.6	13.6	18.2	18.2	13.6	4.5	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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