

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: P534267

Luminaire Tested: **GALN-SA9D-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534267
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-SA9D-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 35309 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 552
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

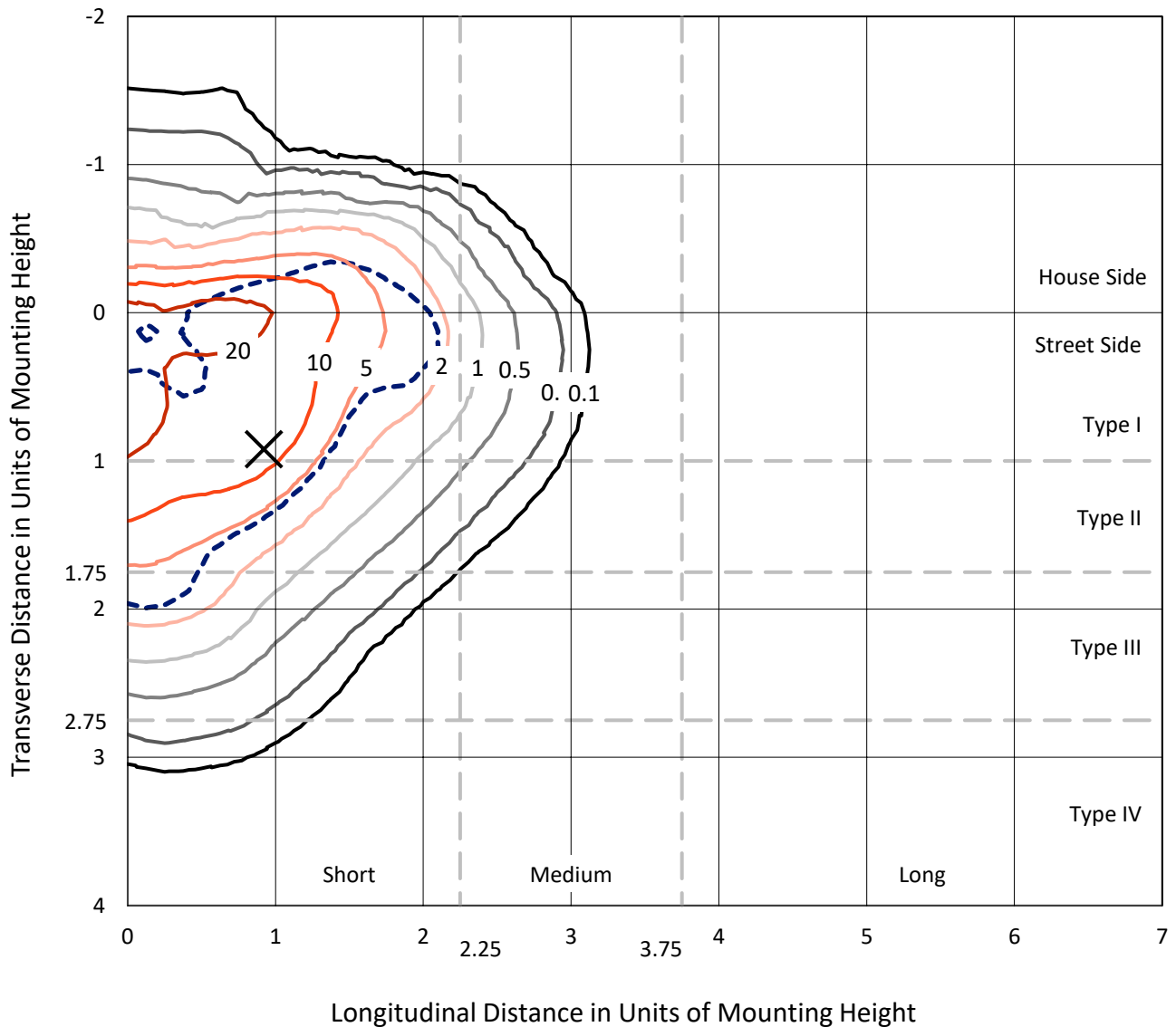




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Iso-Footcandle Lines of Horizontal Illumination

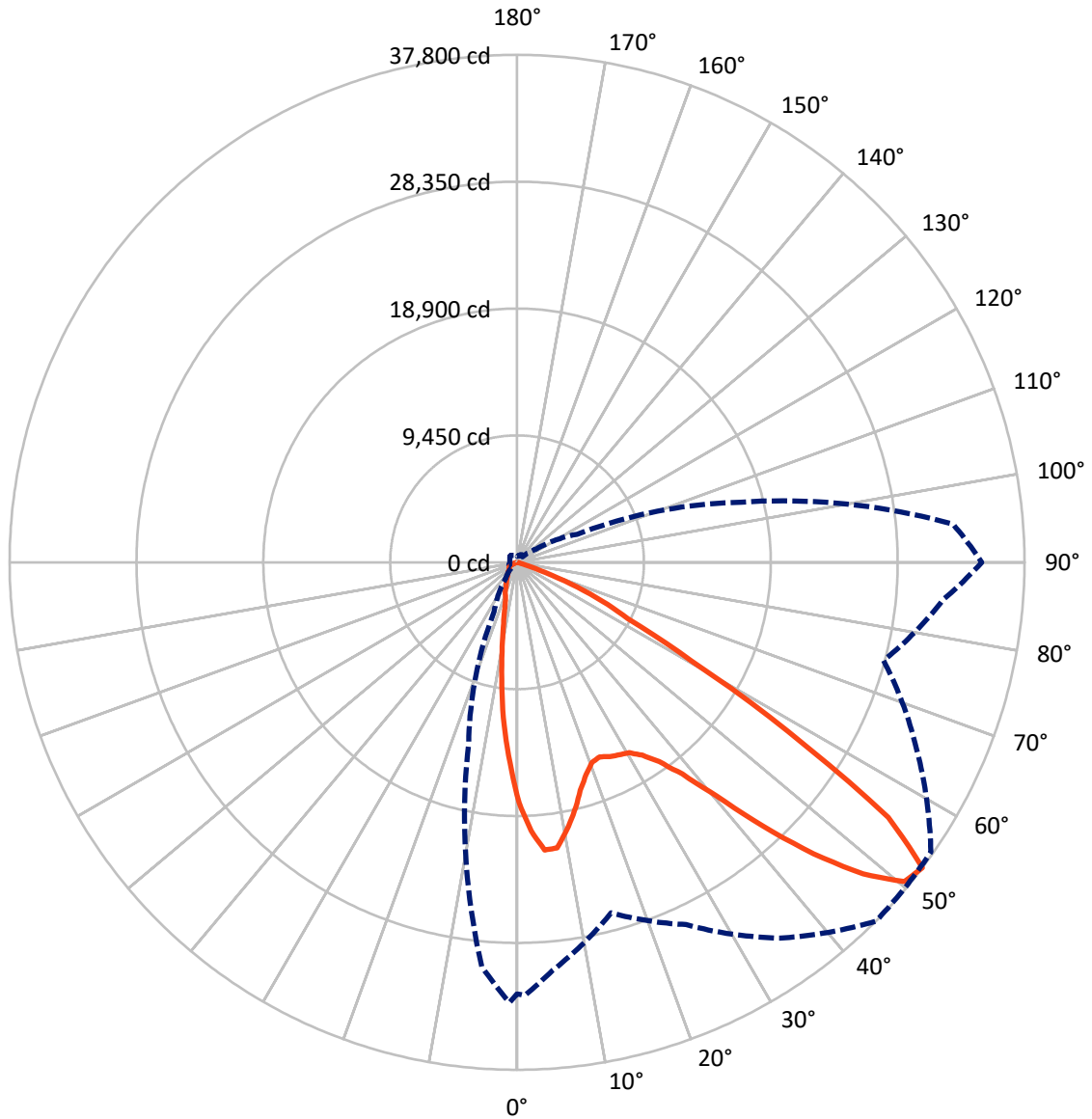
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31 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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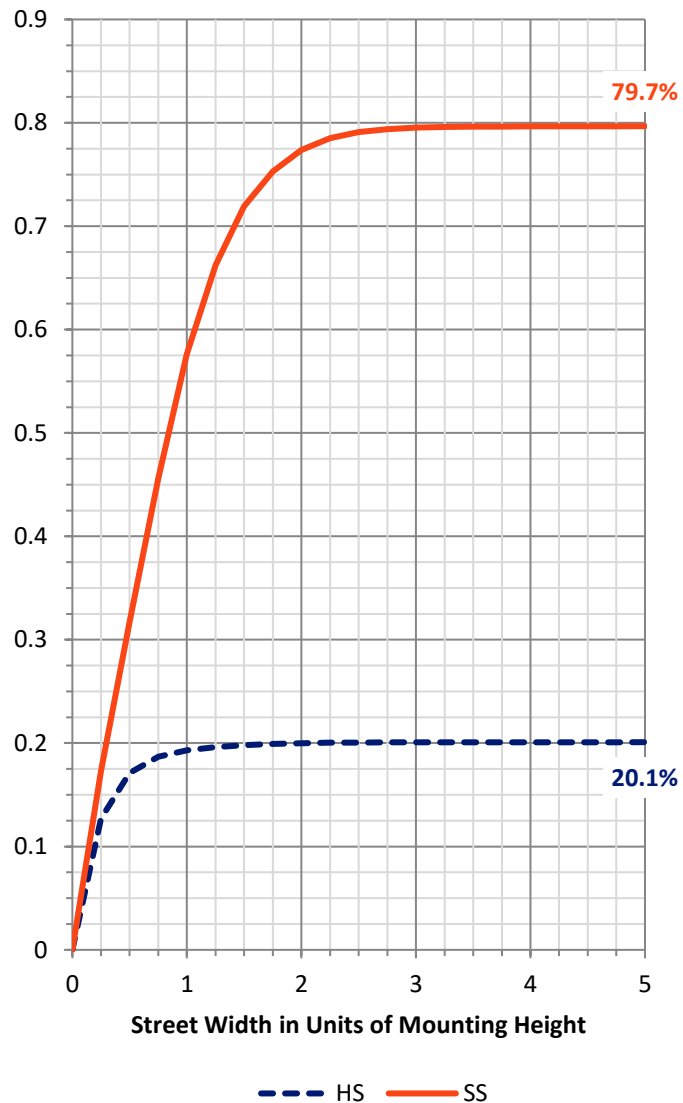
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7166.0	0.0	7166.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	28143.0	0.0	28143.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	35309.0	0.0	35309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1305.7	3.7
10°-20°	2576.0	7.3
20°-30°	3920.3	11.1
30°-40°	5859.3	16.6
40°-50°	8344.2	23.6
50°-60°	8969.8	25.4
60°-70°	3974.7	11.3
70°-80°	321.6	0.9
80°-90°	37.5	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°	35309.0	100.0
0°-180°	35309.0	100.0

Coefficient of Utilization



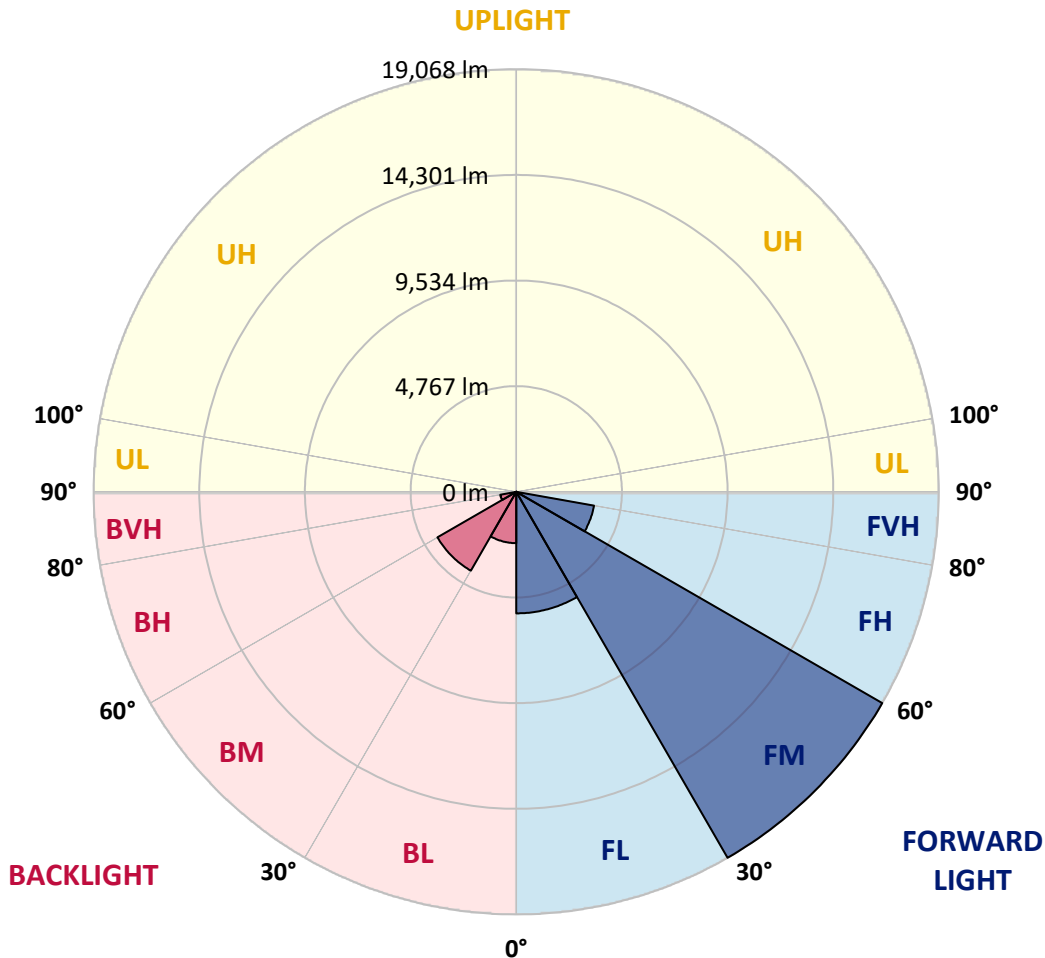
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5484.2	15.5			
FM	(30°-60°)	19068.0	54.0			
FH	(60°-80°)	3563.1	10.1			G2/5000
FVH	(80°-90°)	27.8	0.1			G1/100
BL	(0°-30°)	2317.8	6.6	B3/2500		
BM	(30°-60°)	4105.3	11.6	B3/5000		
BH	(60°-80°)	733.2	2.1	B2/1000		G2/1000
BVH	(80°-90°)	9.7	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°	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3
2.5°	18945.0	19000.6	19306.1	19688.1	19889.5	20347.8	20028.4	20111.7	19938.1	19327.0	18847.8
5°	18368.6	18361.7	18750.6	19695.0	20590.9	21500.6	21528.4	21042.3	20188.1	19250.6	17910.2
7.5°	16632.4	16903.3	17306.1	18813.1	20472.8	21153.4	21479.8	20910.3	19597.8	18257.5	16806.0
10°	15319.9	15458.8	16139.4	17958.9	19174.2	20083.9	20285.3	19958.9	18951.9	17278.3	15653.2
12.5°	14562.9	14632.4	15431.0	16958.8	18243.6	18917.2	19014.4	19167.2	18445.0	16875.5	14924.0
15°	14569.9	14625.4	15701.9	16979.7	17486.6	17306.1	17625.5	17618.6	17931.1	16799.1	15535.2
17.5°	15618.5	15681.0	16653.3	17285.2	17063.0	16639.4	16618.5	16938.0	17597.7	17750.5	16458.8
20°	17424.1	17570.0	18285.3	18250.5	17000.5	16146.3	15910.2	16153.3	17688.0	18556.1	18320.0
22.5°	19854.8	20056.1	20556.2	19597.8	17285.2	15813.0	15736.6	16208.8	18285.3	20354.8	20431.2
25°	22674.3	23014.6	23257.6	22028.4	18299.1	16389.4	16028.2	16840.8	19090.8	22306.2	23118.7
27.5°	24542.4	24896.6	24841.0	23084.0	18979.7	16542.2	16236.6	16993.6	19792.2	22771.5	24521.6
30°	26000.8	26216.0	26604.9	23653.5	19660.3	16972.7	16451.9	17639.4	20021.4	23577.1	26216.0
32.5°	27702.2	27848.0	27875.8	24660.4	20708.9	17514.4	17118.6	18445.0	21035.3	24347.9	27716.1
35°	29417.5	29632.8	29181.4	25903.5	21354.8	18521.4	18229.7	19840.9	21847.9	25146.6	29368.9
37.5°	31278.7	31389.8	30348.1	26417.4	22278.4	20160.3	20000.6	21347.8	23257.6	26591.1	31202.3
40°	32841.2	32945.4	31591.2	27049.4	23250.7	22452.0	22861.8	24222.9	25174.4	27528.6	32119.0
42.5°	33709.3	33952.4	32007.9	26702.2	25202.1	25049.3	26868.8	27348.0	27396.6	27792.5	32938.5
45°	33945.4	33834.3	31320.4	26986.9	26910.5	29320.3	30973.1	31605.1	29605.0	28278.6	33146.8
47.5°	32855.1	33001.0	30306.4	26736.9	29153.6	32556.5	34695.5	35869.1	31250.9	27855.0	32632.9
50°	31973.2	31785.7	29980.0	26556.3	29757.8	34084.3	37383.0	37646.9	32764.9	28375.8	32070.4
52.5°	32146.8	32264.8	30500.9	27035.5	29771.7	34174.6	37799.7	37619.2	32813.5	28257.8	31869.0
55°	32514.8	31994.0	30278.7	25979.9	27778.6	31653.7	33549.6	33271.8	30285.6	27000.8	31375.9
57.5°	28056.4	28862.0	27841.1	23195.1	22799.3	23847.9	23813.2	24667.4	22590.9	23236.8	28563.3
60°	22771.5	22910.4	23292.4	19840.9	15778.2	15417.1	14917.1	14375.4	15201.8	19868.6	25979.9
62.5°	20028.4	19861.7	21222.8	18049.1	11139.2	9326.7	9243.3	9576.7	11729.5	18951.9	24368.8
65°	14556.0	14764.3	15750.5	14007.4	8361.4	7118.3	6993.3	7979.4	9493.3	15187.9	18597.8
67.5°	8889.2	9291.9	9382.2	8639.1	5673.8	4507.1	4326.5	5222.4	6854.4	9826.7	10903.1
70°	4104.3	4590.4	5048.8	4715.4	3284.8	1854.2	1750.1	2194.5	3458.4	5652.9	5784.9
72.5°	1243.1	1250.0	1750.1	1826.4	1062.5	416.7	368.1	486.1	1173.6	1868.1	1965.3
75°	90.3	97.2	236.1	270.8	201.4	104.2	111.1	131.9	250.0	416.7	312.5
77.5°	6.9	6.9	6.9	34.7	62.5	69.4	90.3	104.2	131.9	152.8	138.9
80°	6.9	0.0	6.9	27.8	48.6	69.4	83.3	97.2	104.2	118.1	104.2
82.5°	0.0	0.0	0.0	20.8	48.6	69.4	76.4	104.2	118.1	138.9	118.1
85°	0.0	0.0	0.0	20.8	48.6	76.4	69.4	34.7	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°	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3
2.5°	18931.1	18660.3	18042.2	17729.7	16993.6	16889.4	16167.1	16049.1	15806.0	15674.1	15354.6
5°	17320.0	16993.6	15986.6	15139.3	14153.2	13465.7	12937.9	12458.7	12180.9	11924.0	12042.0
7.5°	16007.4	15056.0	13937.9	12521.2	11382.3	10646.1	9840.6	9180.8	8791.9	8528.0	8590.5
10°	14632.4	14014.3	12458.7	10868.4	9493.3	8972.5	8340.5	7833.6	7284.9	6812.7	6590.5
12.5°	14201.8	13285.1	11333.7	9715.6	8673.9	8166.9	7444.7	6861.3	6159.9	5583.5	5382.1
15°	14278.2	13396.2	11028.1	9298.9	8069.7	7194.7	6333.5	5611.3	4840.4	4437.6	4229.3
17.5°	15521.3	13993.5	11229.5	8861.4	7229.4	6014.1	4951.5	4034.8	3458.4	3041.8	2951.5
20°	17049.1	15285.2	11660.1	8541.9	6541.9	4784.9	3618.2	2826.5	2347.3	2277.8	2257.0
22.5°	19285.3	17396.3	12583.7	8326.6	5701.6	3729.3	2479.2	2055.6	1923.7	1909.8	1916.7
25°	22410.4	20042.3	13590.7	8146.1	5069.6	2875.1	2027.8	1743.1	1701.4	1680.6	1715.3
27.5°	23764.6	21639.5	14125.4	7757.2	4493.2	2590.4	2000.1	1729.2	1611.2	1576.4	1597.3
30°	25438.2	22702.1	14965.7	7090.5	3645.9	2132.0	1868.1	1882.0	1826.4	1652.8	1597.3
32.5°	27660.5	24028.5	15389.3	6618.3	3257.0	1763.9	1368.1	1257.0	1402.8	1430.6	1479.2
35°	29084.2	25375.7	15604.6	6340.5	3055.6	1507.0	1159.8	1055.6	1020.9	1027.8	1055.6
37.5°	31730.1	27195.2	15875.5	6048.8	2902.9	1312.5	1048.6	951.4	902.8	902.8	930.6
40°	33313.5	28639.7	16243.5	5889.1	2750.1	1194.5	951.4	868.1	826.4	826.4	840.3
42.5°	33709.3	29355.0	16118.5	5833.5	2576.5	1166.7	868.1	805.6	757.0	750.0	743.1
45°	34417.7	30445.3	16139.4	5771.0	2395.9	1062.5	819.5	750.0	680.6	673.6	666.7
47.5°	35195.5	31230.1	16181.0	5527.9	2222.3	888.9	854.2	694.5	611.1	597.2	597.2
50°	34528.8	31855.1	16542.2	5284.9	2000.1	722.2	840.3	652.8	541.7	520.8	527.8
52.5°	34612.1	32591.2	17306.1	4944.6	1722.3	576.4	680.6	618.1	493.1	458.3	465.3
55°	33278.8	31813.4	17410.2	4583.5	1347.3	444.5	520.8	541.7	416.7	402.8	402.8
57.5°	28646.7	26938.3	15361.6	3715.4	888.9	368.1	375.0	472.2	361.1	347.2	354.2
60°	24514.6	21625.6	12361.5	2451.5	555.6	291.7	270.8	479.2	319.5	312.5	333.3
62.5°	22347.9	17771.4	9375.3	1520.9	382.0	222.2	187.5	388.9	277.8	277.8	305.6
65°	16146.3	11937.9	5451.5	798.6	270.8	173.6	138.9	222.2	229.2	236.1	250.0
67.5°	10000.3	6028.0	2298.7	388.9	180.6	118.1	90.3	138.9	152.8	152.8	166.7
70°	4937.6	2402.8	763.9	222.2	138.9	97.2	62.5	76.4	76.4	69.4	76.4
72.5°	1527.8	722.2	194.5	138.9	97.2	62.5	34.7	27.8	13.9	0.0	6.9
75°	173.6	138.9	125.0	97.2	62.5	27.8	6.9	0.0	0.0	0.0	0.0
77.5°	104.2	118.1	118.1	97.2	62.5	20.8	0.0	0.0	0.0	0.0	0.0
80°	83.3	90.3	97.2	90.3	55.6	27.8	0.0	0.0	0.0	0.0	0.0
82.5°	104.2	118.1	131.9	118.1	76.4	34.7	13.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	20.8	6.9	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°	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3
2.5°	15222.7	15069.9	15285.2	14965.7	14958.8	14965.7	14875.4	14792.1	14924.0	15278.2	15313.0
5°	11618.4	11944.8	12049.0	12389.3	12201.7	11924.0	11979.5	11792.0	12250.4	12451.8	12292.0
7.5°	8458.6	8437.7	9139.2	9180.8	9271.1	9278.1	9264.2	8896.1	8521.1	8604.4	8854.4
10°	6562.7	6208.5	6548.8	6514.1	6736.3	6673.8	6764.1	6368.2	6500.2	6500.2	6659.9
12.5°	5347.4	4972.4	4909.9	4819.6	4909.9	4944.6	4979.3	4902.9	5125.2	5229.3	5340.4
15°	4083.5	3875.1	3819.6	3645.9	3673.7	3770.9	3854.3	3889.0	3819.6	3979.3	3993.2
17.5°	2965.4	2958.4	2993.1	2986.2	2958.4	2937.6	2930.6	2840.4	2812.6	2826.5	2882.0
20°	2250.1	2305.6	2423.7	2541.7	2604.2	2527.9	2423.7	2270.9	2208.4	2222.3	2229.2
22.5°	1923.7	2007.0	2166.7	2298.7	2361.2	2222.3	2034.8	1902.8	1875.1	1868.1	1861.2
25°	1743.1	1840.3	1958.4	2000.1	1993.1	1909.8	1770.9	1715.3	1701.4	1687.5	1625.0
27.5°	1645.9	1680.6	1701.4	1750.1	1770.9	1715.3	1680.6	1597.3	1583.4	1583.4	1541.7
30°	1590.3	1569.5	1597.3	1562.5	1590.3	1548.7	1555.6	1555.6	1520.9	1534.8	1534.8
32.5°	1479.2	1486.2	1486.2	1416.7	1437.5	1388.9	1437.5	1479.2	1486.2	1493.1	1548.7
35°	1083.4	1208.4	1270.9	1270.9	1291.7	1257.0	1250.0	1201.4	1138.9	1076.4	1048.6
37.5°	951.4	1000.0	1083.4	1132.0	1166.7	1138.9	1076.4	1000.0	965.3	937.5	909.7
40°	847.2	888.9	944.5	1000.0	1069.5	1034.8	937.5	902.8	861.1	861.1	833.4
42.5°	763.9	784.7	819.5	902.8	979.2	909.7	840.3	812.5	791.7	784.7	777.8
45°	687.5	694.5	729.2	798.6	888.9	819.5	750.0	715.3	722.2	729.2	722.2
47.5°	618.1	632.0	652.8	736.1	791.7	757.0	680.6	659.7	659.7	659.7	666.7
50°	534.7	569.5	611.1	680.6	722.2	701.4	638.9	611.1	597.2	597.2	604.2
52.5°	479.2	507.0	562.5	645.9	701.4	666.7	604.2	562.5	534.7	527.8	541.7
55°	416.7	465.3	555.6	618.1	694.5	659.7	590.3	541.7	493.1	486.1	486.1
57.5°	375.0	451.4	534.7	611.1	673.6	645.9	590.3	527.8	465.3	458.3	458.3
60°	354.2	437.5	520.8	590.3	673.6	632.0	583.4	513.9	444.5	444.5	437.5
62.5°	333.3	409.7	493.1	562.5	645.9	611.1	562.5	493.1	423.6	423.6	409.7
65°	277.8	354.2	409.7	472.2	562.5	527.8	479.2	430.6	375.0	361.1	368.1
67.5°	194.5	243.1	298.6	361.1	416.7	402.8	382.0	347.2	298.6	291.7	284.7
70°	97.2	131.9	180.6	243.1	291.7	277.8	263.9	236.1	208.3	201.4	201.4
72.5°	13.9	41.7	76.4	111.1	152.8	159.7	152.8	145.8	138.9	131.9	138.9
75°	0.0	0.0	0.0	27.8	62.5	76.4	90.3	104.2	104.2	90.3	111.1
77.5°	0.0	0.0	0.0	0.0	6.9	34.7	69.4	90.3	111.1	97.2	131.9
80°	0.0	0.0	0.0	0.0	6.9	41.7	69.4	97.2	111.1	97.2	138.9
82.5°	0.0	0.0	0.0	0.0	6.9	48.6	69.4	90.3	104.2	97.2	125.0
85°	0.0	0.0	0.0	0.0	20.8	41.7	27.8	13.9	6.9	6.9	20.8
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: P534267

CATALOG NUMBER: GALN-SA9D-730-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3	17903.3
2.5°	15507.4	16000.5	16528.3	16729.7	17354.7	17826.9	18146.4	18833.9	18938.1	18945.0
5°	12458.7	12708.7	13611.5	14035.1	14965.7	15688.0	16458.8	17570.0	18313.0	18368.6
7.5°	8854.4	9548.9	9930.8	11035.0	12180.9	13312.9	14458.8	15750.5	16611.6	16632.4
10°	7125.2	7576.6	8257.2	9083.6	10048.9	11201.7	12729.5	14229.6	15104.6	15319.9
12.5°	5736.3	6528.0	7305.8	8160.0	8896.1	9764.2	11410.1	13410.1	14132.4	14562.9
15°	4416.8	5139.0	6055.7	7055.8	7889.1	9048.9	10923.9	13208.7	14424.0	14569.9
17.5°	3257.0	3902.9	4750.1	5694.6	6944.6	8590.5	11007.3	14229.6	15375.5	15618.5
20°	2340.3	2715.4	3382.0	4479.3	6069.6	8055.8	11090.6	15264.3	17007.4	17424.1
22.5°	1854.2	2007.0	2444.5	3416.8	5090.4	7493.3	11680.9	17243.6	19250.6	19854.8
25°	1611.2	1694.5	1902.8	2694.5	4472.4	7437.7	12625.4	19618.6	22236.8	22674.3
27.5°	1555.6	1569.5	1750.1	2472.3	4139.0	7069.7	12986.5	21306.2	24097.9	24542.4
30°	1638.9	1861.2	1875.1	2090.3	3520.9	6340.5	13174.0	22938.2	25674.4	26000.8
32.5°	1416.7	1347.3	1395.9	1618.1	3097.3	5916.8	13528.2	24361.8	27473.0	27702.2
35°	986.1	1034.8	1145.9	1402.8	2708.4	5472.4	13618.5	25931.3	29181.4	29417.5
37.5°	909.7	937.5	1027.8	1194.5	2382.0	5222.4	13493.5	27077.2	30952.3	31278.7
40°	847.2	882.0	930.6	1083.4	2139.0	4944.6	13319.8	28111.9	32035.7	32841.2
42.5°	798.6	826.4	868.1	1034.8	1930.6	4666.8	13076.8	29570.3	33007.9	33709.3
45°	743.1	784.7	833.4	1007.0	1812.6	4479.3	12896.2	29480.0	33570.4	33945.4
47.5°	687.5	757.0	812.5	937.5	1777.8	4389.0	12972.6	29139.7	33112.1	32855.1
50°	632.0	722.2	819.5	777.8	1694.5	4208.5	13062.9	29605.0	32021.8	31973.2
52.5°	583.4	687.5	763.9	638.9	1507.0	4034.8	13937.9	30216.2	32792.6	32146.8
55°	513.9	618.1	611.1	513.9	1222.3	3902.9	14625.4	30230.1	32271.8	32514.8
57.5°	465.3	548.6	479.2	430.6	902.8	3264.0	13507.3	25348.0	27625.8	28056.4
60°	430.6	534.7	361.1	340.3	590.3	2354.2	11792.0	19632.5	21959.0	22771.5
62.5°	395.8	507.0	284.7	277.8	409.7	1673.7	9694.7	16431.0	18924.2	20028.4
65°	347.2	361.1	229.2	215.3	291.7	902.8	5903.0	11312.8	14146.2	14556.0
67.5°	284.7	277.8	187.5	173.6	194.5	437.5	2604.2	5666.8	8201.6	8889.2
70°	229.2	229.2	159.7	138.9	138.9	201.4	680.6	2257.0	3708.4	4104.3
72.5°	166.7	173.6	125.0	111.1	104.2	97.2	111.1	451.4	972.3	1243.1
75°	145.8	152.8	125.0	97.2	76.4	62.5	48.6	41.7	55.6	90.3
77.5°	159.7	159.7	131.9	90.3	69.4	48.6	27.8	13.9	13.9	6.9
80°	201.4	208.3	173.6	118.1	83.3	55.6	34.7	13.9	6.9	6.9
82.5°	215.3	236.1	194.5	145.8	104.2	62.5	34.7	6.9	0.0	0.0
85°	55.6	90.3	152.8	131.9	104.2	62.5	34.7	6.9	0.0	0.0
87.5°	0.0	6.9	20.8	20.8	27.8	27.8	20.8	6.9	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

(END OF REPORT)