

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: P534033

Luminaire Tested: **GALN-SA9C-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534033
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-SA9C-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA 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: 32089 lumens
Efficiency: N/A
Efficacy: 66.7 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

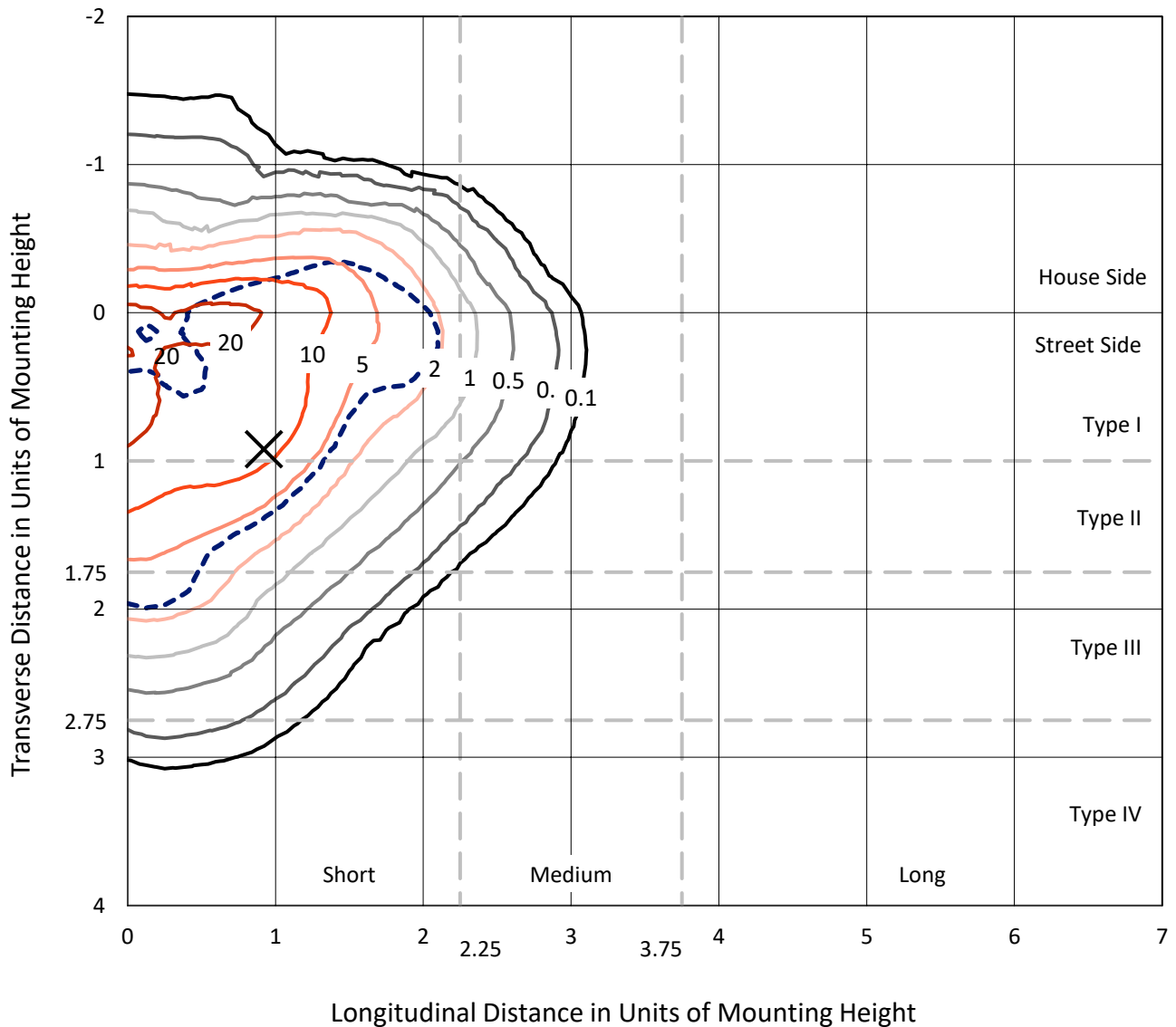
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

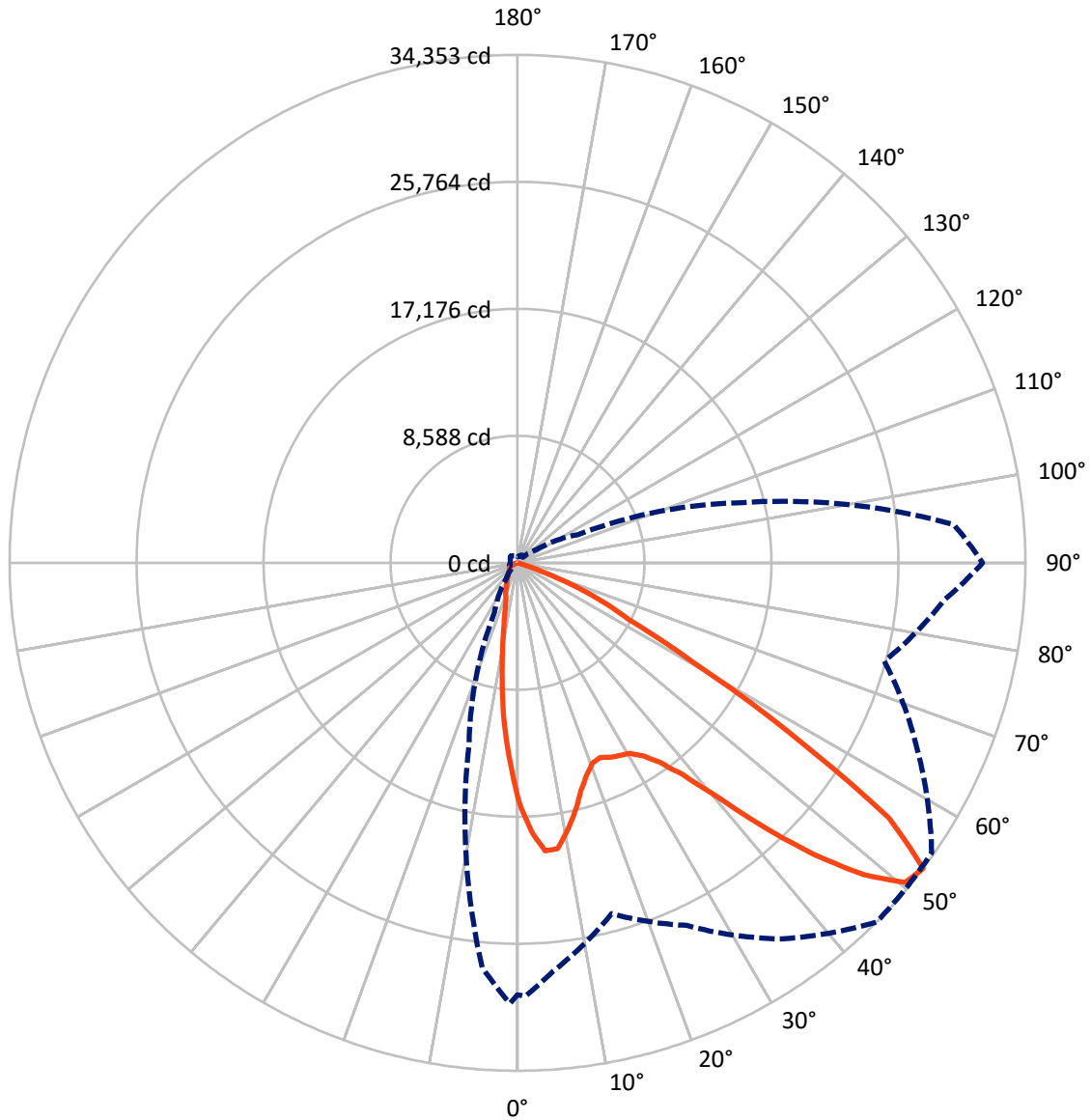
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.1 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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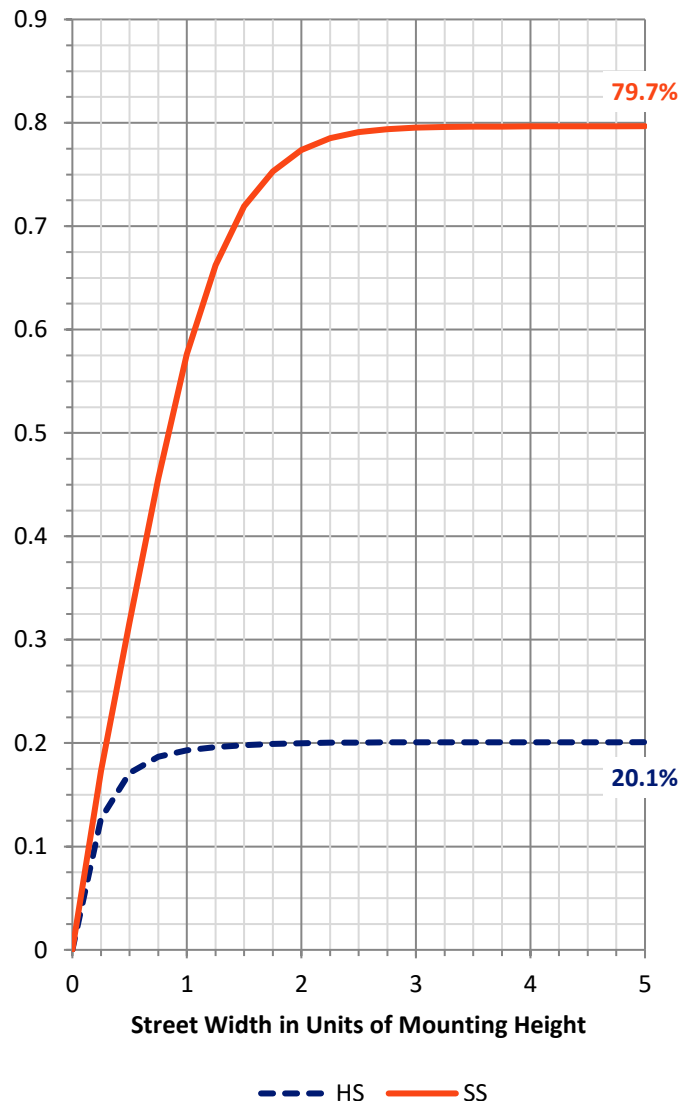
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6512.5	0.0	6512.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	25576.5	0.0	25576.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	32089.0	0.0	32089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1186.6	3.7
10°-20°	2341.1	7.3
20°-30°	3562.8	11.1
30°-40°	5325.0	16.6
40°-50°	7583.3	23.6
50°-60°	8151.8	25.4
60°-70°	3612.2	11.3
70°-80°	292.3	0.9
80°-90°	34.1	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°	32089.0	100.0
0°-180°	32089.0	100.0

Coefficient of Utilization



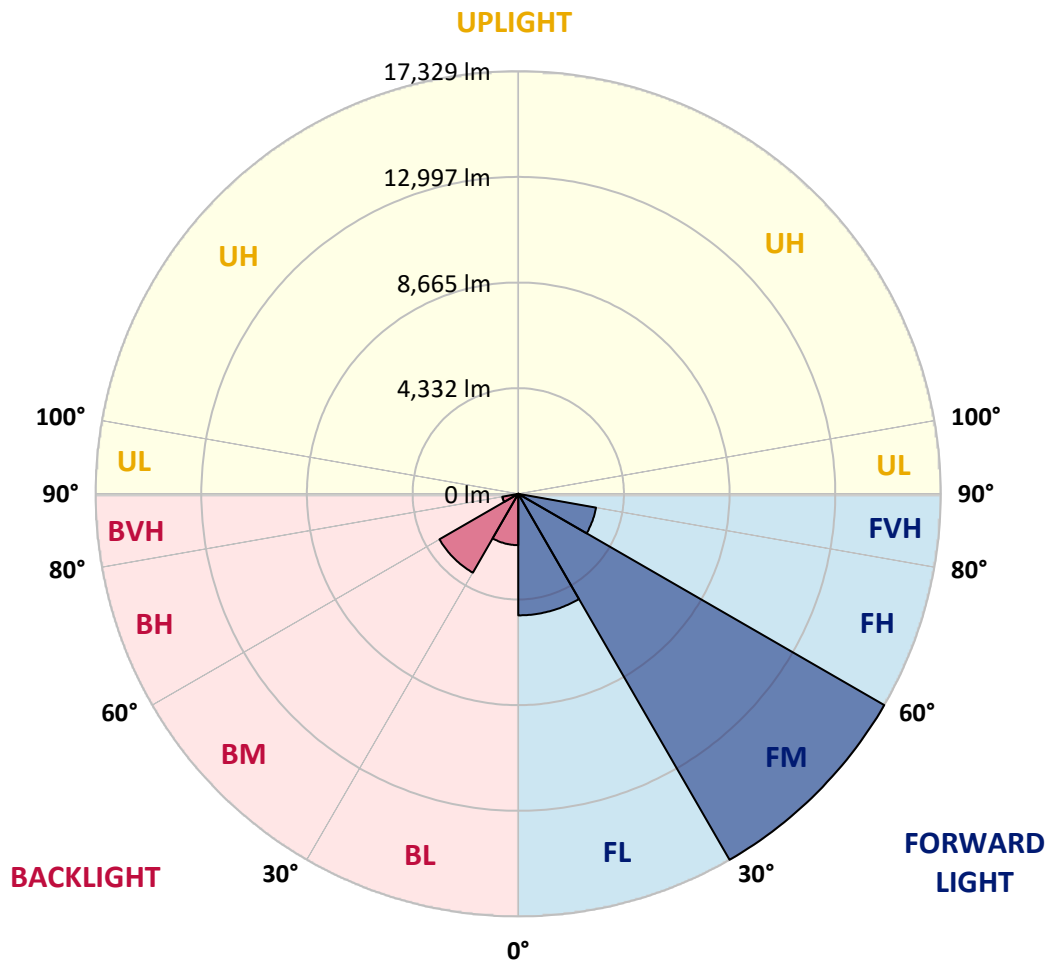
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4984.1	15.5			
FM	(30°-60°)	17329.1	54.0			
FH	(60°-80°)	3238.2	10.1			G2/5000
FVH	(80°-90°)	25.2	0.1			G1/100
BL	(0°-30°)	2106.4	6.6	B3/2500		
BM	(30°-60°)	3730.9	11.6	B3/5000		
BH	(60°-80°)	666.3	2.1	B2/1000		G2/1000
BVH	(80°-90°)	8.8	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°	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6
2.5°	17217.3	17267.8	17545.5	17892.6	18075.7	18492.2	18201.9	18277.6	18119.8	17564.4	17129.0
5°	16693.5	16687.2	17040.6	17898.9	18713.1	19539.9	19565.1	19123.3	18347.0	17495.0	16276.9
7.5°	15115.6	15361.8	15727.8	17097.4	18605.8	19224.3	19521.0	19003.4	17810.6	16592.5	15273.4
10°	13922.8	14049.0	14667.5	16321.1	17425.6	18252.4	18435.4	18138.8	17223.6	15702.6	14225.7
12.5°	13234.9	13298.0	14023.8	15412.3	16579.9	17192.1	17280.4	17419.3	16762.9	15336.5	13563.1
15°	13241.2	13291.7	14269.9	15431.2	15891.9	15727.8	16018.2	16011.8	16295.9	15267.1	14118.5
17.5°	14194.2	14251.0	15134.6	15708.9	15506.9	15122.0	15103.0	15393.3	15992.9	16131.8	14957.9
20°	15835.1	15967.7	16617.7	16586.2	15450.1	14673.8	14459.3	14680.2	16075.0	16863.9	16649.3
22.5°	18044.1	18227.1	18681.5	17810.6	15708.9	14370.9	14301.5	14730.6	16617.7	18498.5	18567.9
25°	20606.5	20915.8	21136.7	20019.5	16630.4	14894.7	14566.6	15305.0	17349.9	20272.0	21010.4
27.5°	22304.2	22626.1	22575.6	20978.9	17248.9	15033.6	14755.9	15443.8	17987.3	20694.9	22285.3
30°	23629.6	23825.3	24178.7	21496.4	17867.4	15424.9	14951.5	16030.8	18195.6	21427.0	23825.3
32.5°	25175.9	25308.4	25333.7	22411.5	18820.4	15917.2	15557.4	16762.9	19117.0	22127.5	25188.5
35°	26734.8	26930.5	26520.2	23541.3	19407.3	16832.3	16567.2	18031.5	19855.5	22853.3	26690.6
37.5°	28426.2	28527.2	27580.5	24008.3	20246.8	18321.8	18176.6	19401.0	21136.7	24166.1	28356.8
40°	29846.3	29941.0	28710.3	24582.6	21130.3	20404.5	20776.9	22013.9	22878.6	25018.1	29189.9
42.5°	30635.2	30856.1	29088.9	24267.1	22903.8	22765.0	24418.5	24854.0	24898.2	25258.0	29934.6
45°	30849.8	30748.8	28464.1	24525.8	24456.4	26646.4	28148.5	28722.9	26905.2	25699.7	30124.0
47.5°	29858.9	29991.5	27542.7	24298.6	26495.0	29587.5	31531.4	32598.0	28401.0	25314.8	29657.0
50°	29057.4	28887.0	27246.0	24134.5	27044.1	30976.0	33973.9	34213.7	29776.9	25788.1	29145.7
52.5°	29215.2	29322.4	27719.4	24570.0	27056.7	31058.1	34352.6	34188.5	29821.0	25680.8	28962.7
55°	29549.7	29076.3	27517.4	23610.7	25245.3	28767.1	30490.0	30237.6	27523.7	24538.5	28514.6
57.5°	25497.8	26229.9	25302.1	21079.8	20720.1	21673.1	21641.6	22417.9	20530.8	21117.7	25958.5
60°	20694.9	20821.1	21168.2	18031.5	14339.3	14011.2	13556.7	13064.5	13815.5	18056.7	23610.7
62.5°	18201.9	18050.4	19287.4	16403.2	10123.4	8476.1	8400.4	8703.3	10659.8	17223.6	22146.5
65°	13228.6	13417.9	14314.1	12730.0	7598.8	6469.1	6355.5	7251.7	8627.6	13802.9	16901.7
67.5°	8078.5	8444.6	8526.6	7851.3	5156.4	4096.1	3932.0	4746.1	6229.3	8930.5	9908.8
70°	3730.0	4171.8	4588.3	4285.4	2985.3	1685.1	1590.5	1994.4	3143.0	5137.4	5257.3
72.5°	1129.7	1136.0	1590.5	1659.9	965.6	378.7	334.5	441.8	1066.6	1697.7	1786.1
75°	82.0	88.4	214.6	246.1	183.0	94.7	101.0	119.9	227.2	378.7	284.0
77.5°	6.3	6.3	6.3	31.6	56.8	63.1	82.0	94.7	119.9	138.8	126.2
80°	6.3	0.0	6.3	25.2	44.2	63.1	75.7	88.4	94.7	107.3	94.7
82.5°	0.0	0.0	0.0	18.9	44.2	63.1	69.4	94.7	107.3	126.2	107.3
85°	0.0	0.0	0.0	18.9	44.2	69.4	63.1	31.6	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°	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6
2.5°	17204.7	16958.5	16396.8	16112.8	15443.8	15349.2	14692.8	14585.5	14364.6	14244.7	13954.4
5°	15740.5	15443.8	14528.7	13758.7	12862.5	12237.7	11758.0	11322.5	11070.1	10836.6	10943.9
7.5°	14547.6	13683.0	12666.8	11379.3	10344.3	9675.3	8943.2	8343.6	7990.1	7750.3	7807.1
10°	13298.0	12736.3	11322.5	9877.2	8627.6	8154.2	7579.9	7119.2	6620.6	6191.4	5989.5
12.5°	12906.7	12073.6	10300.1	8829.6	7882.9	7422.1	6765.7	6235.6	5598.2	5074.3	4891.3
15°	12976.1	12174.6	10022.4	8450.9	7333.8	6538.5	5755.9	5099.6	4399.0	4032.9	3843.6
17.5°	14105.8	12717.3	10205.4	8053.3	6570.1	5465.6	4500.0	3666.9	3143.0	2764.4	2682.3
20°	15494.3	13891.2	10596.7	7762.9	5945.3	4348.5	3288.2	2568.7	2133.2	2070.1	2051.2
22.5°	17526.6	15809.9	11436.1	7567.3	5181.6	3389.2	2253.1	1868.2	1748.2	1735.6	1741.9
25°	20366.7	18214.5	12351.3	7403.2	4607.3	2612.9	1842.9	1584.1	1546.3	1527.3	1558.9
27.5°	21597.4	19666.1	12837.2	7049.8	4083.4	2354.1	1817.7	1571.5	1464.2	1432.7	1451.6
30°	23118.4	20631.7	13600.9	6443.9	3313.4	1937.6	1697.7	1710.4	1659.9	1502.1	1451.6
32.5°	25138.0	21837.2	13985.9	6014.7	2960.0	1603.1	1243.3	1142.4	1274.9	1300.1	1344.3
35°	26431.9	23061.6	14181.6	5762.2	2777.0	1369.6	1054.0	959.3	927.8	934.1	959.3
37.5°	28836.5	24715.2	14427.7	5497.2	2638.1	1192.8	953.0	864.7	820.5	820.5	845.7
40°	30275.5	26027.9	14762.2	5352.0	2499.3	1085.5	864.7	788.9	751.0	751.0	763.7
42.5°	30635.2	26678.0	14648.6	5301.5	2341.5	1060.3	788.9	732.1	687.9	681.6	675.3
45°	31279.0	27668.9	14667.5	5244.7	2177.4	965.6	744.7	681.6	618.5	612.2	605.9
47.5°	31985.8	28382.1	14705.4	5023.8	2019.6	807.9	776.3	631.1	555.4	542.8	542.8
50°	31379.9	28950.1	15033.6	4802.9	1817.7	656.4	763.7	593.3	492.3	473.3	479.7
52.5°	31455.7	29619.1	15727.8	4493.7	1565.2	523.8	618.5	561.7	448.1	416.5	422.9
55°	30243.9	28912.2	15822.5	4165.5	1224.4	403.9	473.3	492.3	378.7	366.1	366.1
57.5°	26034.2	24481.7	13960.7	3376.6	807.9	334.5	340.8	429.2	328.2	315.6	321.9
60°	22279.0	19653.5	11234.2	2227.9	504.9	265.1	246.1	435.5	290.3	284.0	302.9
62.5°	20309.9	16150.7	8520.3	1382.2	347.1	202.0	170.4	353.4	252.5	252.5	277.7
65°	14673.8	10849.2	4954.4	725.8	246.1	157.8	126.2	202.0	208.3	214.6	227.2
67.5°	9088.3	5478.2	2089.1	353.4	164.1	107.3	82.0	126.2	138.8	138.8	151.5
70°	4487.4	2183.7	694.2	202.0	126.2	88.4	56.8	69.4	69.4	63.1	69.4
72.5°	1388.5	656.4	176.7	126.2	88.4	56.8	31.6	25.2	12.6	0.0	6.3
75°	157.8	126.2	113.6	88.4	56.8	25.2	6.3	0.0	0.0	0.0	0.0
77.5°	94.7	107.3	107.3	88.4	56.8	18.9	0.0	0.0	0.0	0.0	0.0
80°	75.7	82.0	88.4	82.0	50.5	25.2	0.0	0.0	0.0	0.0	0.0
82.5°	94.7	107.3	119.9	107.3	69.4	31.6	12.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	18.9	6.3	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°	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6
2.5°	13834.4	13695.6	13891.2	13600.9	13594.6	13600.9	13518.9	13443.1	13563.1	13884.9	13916.5
5°	10558.9	10855.5	10950.2	11259.4	11089.0	10836.6	10887.0	10716.6	11133.2	11316.2	11171.1
7.5°	7687.2	7668.3	8305.7	8343.6	8425.6	8431.9	8419.3	8084.8	7744.0	7819.7	8046.9
10°	5964.2	5642.3	5951.6	5920.0	6122.0	6065.2	6147.2	5787.5	5907.4	5907.4	6052.6
12.5°	4859.7	4518.9	4462.1	4380.1	4462.1	4493.7	4525.2	4455.8	4657.8	4752.4	4853.4
15°	3711.1	3521.7	3471.2	3313.4	3338.7	3427.1	3502.8	3534.3	3471.2	3616.4	3629.0
17.5°	2694.9	2688.6	2720.2	2713.9	2688.6	2669.7	2663.4	2581.3	2556.1	2568.7	2619.2
20°	2044.9	2095.4	2202.7	2309.9	2366.7	2297.3	2202.7	2063.8	2007.0	2019.6	2025.9
22.5°	1748.2	1824.0	1969.1	2089.1	2145.9	2019.6	1849.2	1729.3	1704.1	1697.7	1691.4
25°	1584.1	1672.5	1779.8	1817.7	1811.4	1735.6	1609.4	1558.9	1546.3	1533.7	1476.9
27.5°	1495.8	1527.3	1546.3	1590.5	1609.4	1558.9	1527.3	1451.6	1439.0	1439.0	1401.1
30°	1445.3	1426.4	1451.6	1420.0	1445.3	1407.4	1413.7	1413.7	1382.2	1394.8	1394.8
32.5°	1344.3	1350.6	1350.6	1287.5	1306.4	1262.3	1306.4	1344.3	1350.6	1356.9	1407.4
35°	984.6	1098.2	1155.0	1155.0	1173.9	1142.4	1136.0	1091.9	1035.1	978.3	953.0
37.5°	864.7	908.8	984.6	1028.7	1060.3	1035.1	978.3	908.8	877.3	852.0	826.8
40°	770.0	807.9	858.3	908.8	971.9	940.4	852.0	820.5	782.6	782.6	757.4
42.5°	694.2	713.2	744.7	820.5	889.9	826.8	763.7	738.4	719.5	713.2	706.9
45°	624.8	631.1	662.7	725.8	807.9	744.7	681.6	650.1	656.4	662.7	656.4
47.5°	561.7	574.3	593.3	669.0	719.5	687.9	618.5	599.6	599.6	599.6	605.9
50°	486.0	517.5	555.4	618.5	656.4	637.4	580.6	555.4	542.8	542.8	549.1
52.5°	435.5	460.7	511.2	587.0	637.4	605.9	549.1	511.2	486.0	479.7	492.3
55°	378.7	422.9	504.9	561.7	631.1	599.6	536.5	492.3	448.1	441.8	441.8
57.5°	340.8	410.2	486.0	555.4	612.2	587.0	536.5	479.7	422.9	416.5	416.5
60°	321.9	397.6	473.3	536.5	612.2	574.3	530.2	467.0	403.9	403.9	397.6
62.5°	302.9	372.4	448.1	511.2	587.0	555.4	511.2	448.1	385.0	385.0	372.4
65°	252.5	321.9	372.4	429.2	511.2	479.7	435.5	391.3	340.8	328.2	334.5
67.5°	176.7	220.9	271.4	328.2	378.7	366.1	347.1	315.6	271.4	265.1	258.8
70°	88.4	119.9	164.1	220.9	265.1	252.5	239.8	214.6	189.3	183.0	183.0
72.5°	12.6	37.9	69.4	101.0	138.8	145.2	138.8	132.5	126.2	119.9	126.2
75°	0.0	0.0	0.0	25.2	56.8	69.4	82.0	94.7	94.7	82.0	101.0
77.5°	0.0	0.0	0.0	0.0	6.3	31.6	63.1	82.0	101.0	88.4	119.9
80°	0.0	0.0	0.0	0.0	6.3	37.9	63.1	88.4	101.0	88.4	126.2
82.5°	0.0	0.0	0.0	0.0	6.3	44.2	63.1	82.0	94.7	88.4	113.6
85°	0.0	0.0	0.0	0.0	18.9	37.9	25.2	12.6	6.3	6.3	18.9
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: P534033

CATALOG NUMBER: GALN-SA9C-730-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6	16270.6
2.5°	14093.2	14541.3	15021.0	15204.0	15772.0	16201.2	16491.5	17116.3	17211.0	17217.3
5°	11322.5	11549.7	12370.2	12755.2	13600.9	14257.3	14957.9	15967.7	16643.0	16693.5
7.5°	8046.9	8678.1	9025.2	10028.7	11070.1	12098.8	13140.2	14314.1	15096.7	15115.6
10°	6475.4	6885.7	7504.2	8255.2	9132.5	10180.2	11568.7	12931.9	13727.1	13922.8
12.5°	5213.2	5932.7	6639.5	7415.8	8084.8	8873.7	10369.5	12187.2	12843.6	13234.9
15°	4014.0	4670.4	5503.5	6412.3	7169.7	8223.7	9927.7	12004.2	13108.6	13241.2
17.5°	2960.0	3547.0	4317.0	5175.3	6311.3	7807.1	10003.5	12931.9	13973.3	14194.2
20°	2126.9	2467.7	3073.6	4070.8	5516.1	7321.1	10079.2	13872.3	15456.5	15835.1
22.5°	1685.1	1824.0	2221.6	3105.2	4626.2	6809.9	10615.7	15671.0	17495.0	18044.1
25°	1464.2	1540.0	1729.3	2448.8	4064.5	6759.4	11474.0	17829.5	20208.9	20606.5
27.5°	1413.7	1426.4	1590.5	2246.8	3761.6	6424.9	11802.2	19363.2	21900.3	22304.2
30°	1489.5	1691.4	1704.1	1899.7	3199.8	5762.2	11972.6	20846.3	23333.0	23629.6
32.5°	1287.5	1224.4	1268.6	1470.5	2814.9	5377.3	12294.5	22140.2	24967.6	25175.9
35°	896.2	940.4	1041.4	1274.9	2461.4	4973.3	12376.5	23566.5	26520.2	26734.8
37.5°	826.8	852.0	934.1	1085.5	2164.8	4746.1	12262.9	24607.9	28129.6	28426.2
40°	770.0	801.5	845.7	984.6	1943.9	4493.7	12105.1	25548.3	29114.2	29846.3
42.5°	725.8	751.0	788.9	940.4	1754.6	4241.2	11884.2	26873.7	29997.8	30635.2
45°	675.3	713.2	757.4	915.1	1647.3	4070.8	11720.1	26791.6	30509.0	30849.8
47.5°	624.8	687.9	738.4	852.0	1615.7	3988.8	11789.6	26482.4	30092.4	29858.9
50°	574.3	656.4	744.7	706.9	1540.0	3824.7	11871.6	26905.2	29101.6	29057.4
52.5°	530.2	624.8	694.2	580.6	1369.6	3666.9	12666.8	27460.6	29802.1	29215.2
55°	467.0	561.7	555.4	467.0	1110.8	3547.0	13291.7	27473.2	29328.8	29549.7
57.5°	422.9	498.6	435.5	391.3	820.5	2966.3	12275.5	23036.4	25106.5	25497.8
60°	391.3	486.0	328.2	309.3	536.5	2139.5	10716.6	17842.1	19956.4	20694.9
62.5°	359.7	460.7	258.8	252.5	372.4	1521.0	8810.6	14932.6	17198.4	18201.9
65°	315.6	328.2	208.3	195.7	265.1	820.5	5364.6	10281.2	12856.2	13228.6
67.5°	258.8	252.5	170.4	157.8	176.7	397.6	2366.7	5150.0	7453.7	8078.5
70°	208.3	208.3	145.2	126.2	126.2	183.0	618.5	2051.2	3370.3	3730.0
72.5°	151.5	157.8	113.6	101.0	94.7	88.4	101.0	410.2	883.6	1129.7
75°	132.5	138.8	113.6	88.4	69.4	56.8	44.2	37.9	50.5	82.0
77.5°	145.2	145.2	119.9	82.0	63.1	44.2	25.2	12.6	12.6	6.3
80°	183.0	189.3	157.8	107.3	75.7	50.5	31.6	12.6	6.3	6.3
82.5°	195.7	214.6	176.7	132.5	94.7	56.8	31.6	6.3	0.0	0.0
85°	50.5	82.0	138.8	119.9	94.7	56.8	31.6	6.3	0.0	0.0
87.5°	0.0	6.3	18.9	18.9	25.2	25.2	18.9	6.3	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)