

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: P533097

Luminaire Tested: **GALN-SA8C-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533097
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-SA8C-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 28583 lumens
Efficiency: N/A
Efficacy: 66.6 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

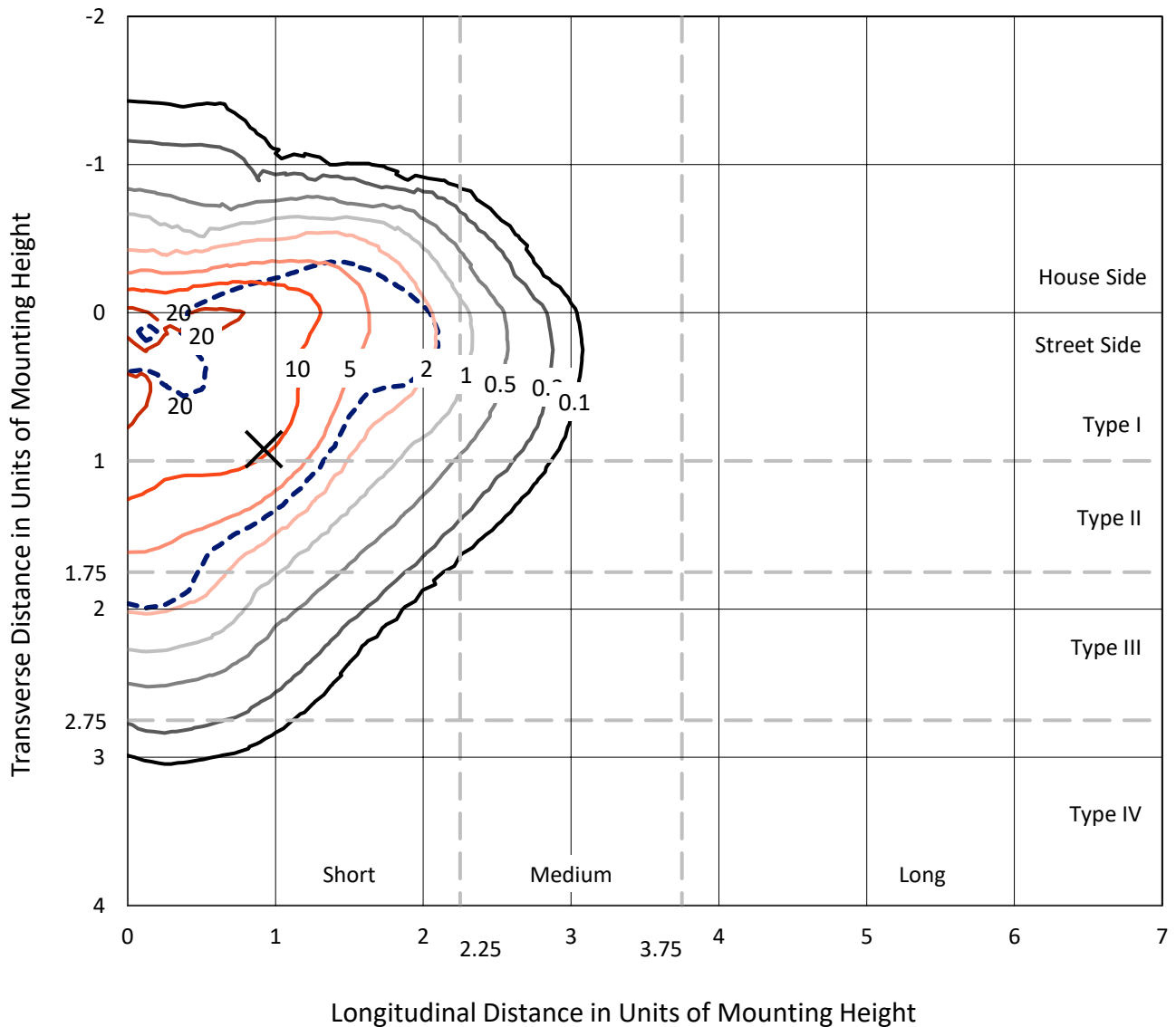
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

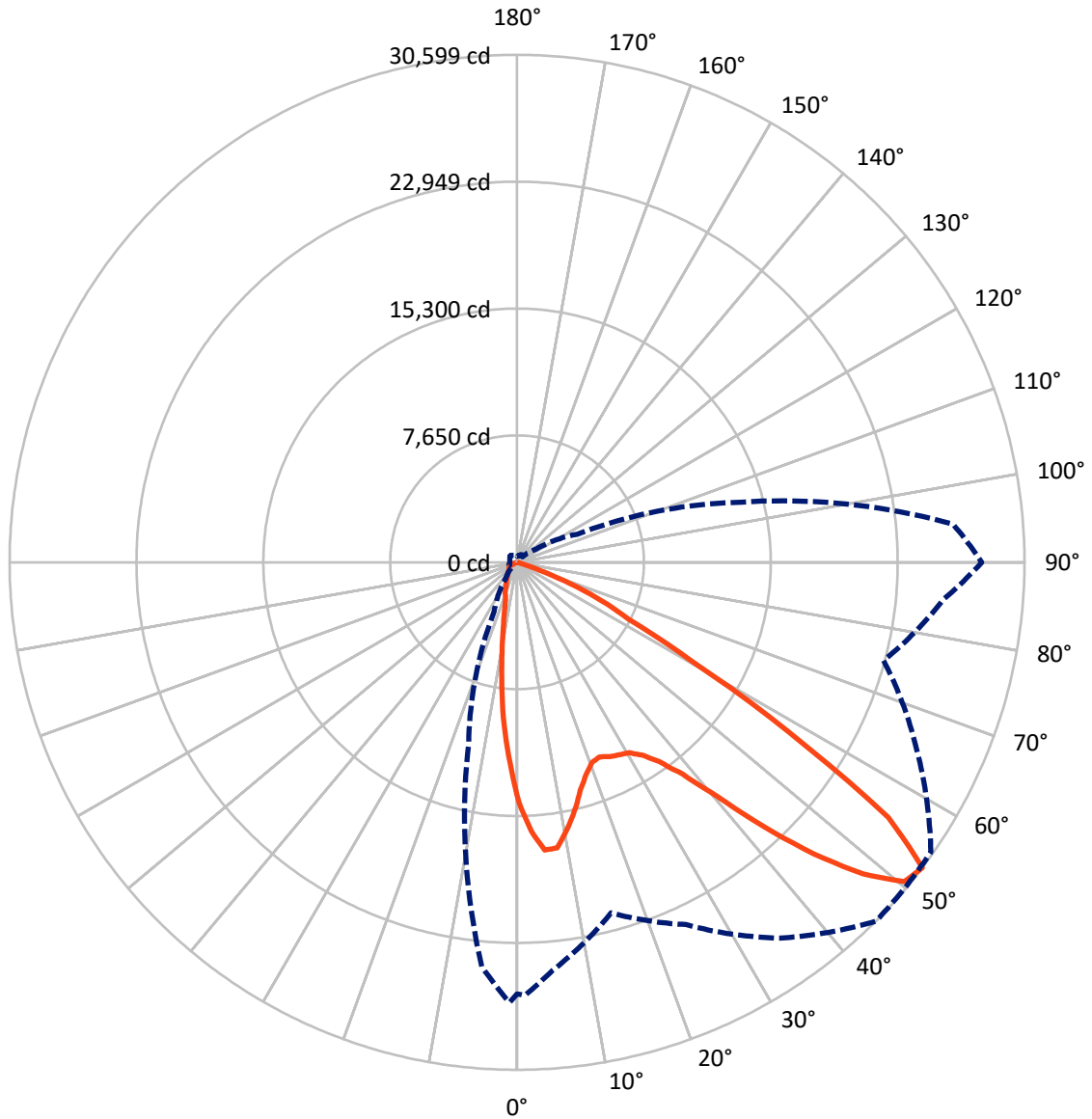
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 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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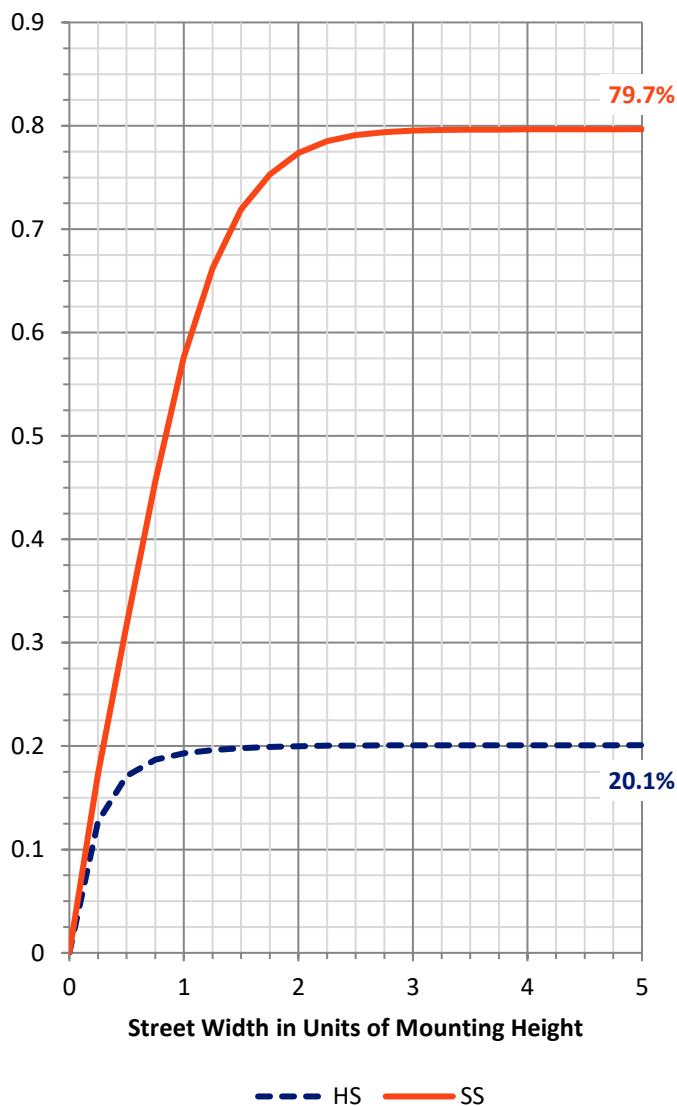
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5800.9	0.0	5800.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	22782.1	0.0	22782.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	28583.0	0.0	28583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1057.0	3.7
10°-20°	2085.3	7.3
20°-30°	3173.5	11.1
30°-40°	4743.2	16.6
40°-50°	6754.7	23.6
50°-60°	7261.1	25.4
60°-70°	3217.6	11.3
70°-80°	260.3	0.9
80°-90°	30.3	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°	28583.0	100.0
0°-180°	28583.0	100.0

Coefficient of Utilization



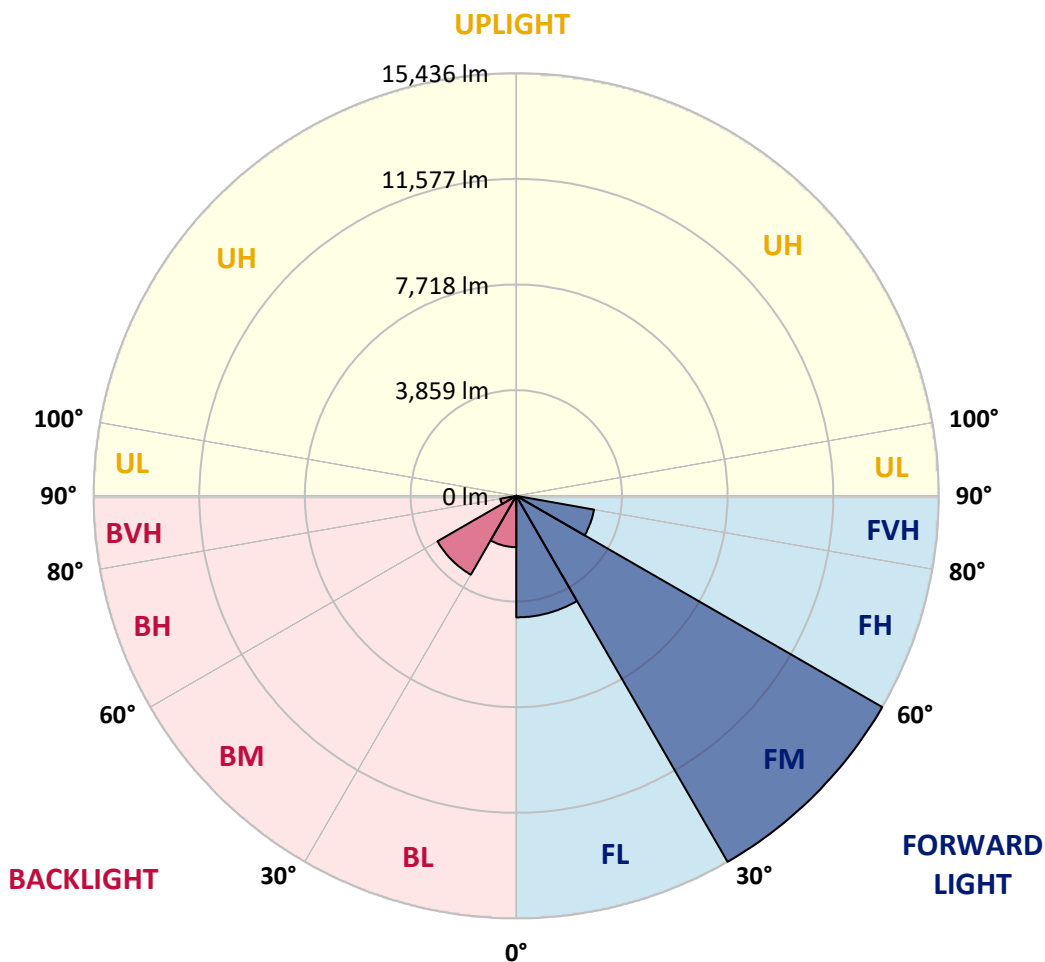
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4439.5	15.5			
FM (30°-60°)	15435.7	54.0			
FH (60°-80°)	2884.4	10.1			G2/5000
FVH (80°-90°)	22.5	0.1			G1/100
BL (0°-30°)	1876.2	6.6	B3/2500		
BM (30°-60°)	3323.3	11.6	B3/5000		
BH (60°-80°)	593.5	2.1	B2/1000		G2/1000
BVH (80°-90°)	7.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9
2.5°	15336.2	15381.1	15628.5	15937.7	16100.7	16471.8	16213.2	16280.6	16140.1	15645.4	15257.5
5°	14869.6	14863.9	15178.8	15943.3	16668.5	17405.0	17427.5	17033.9	16342.5	15583.5	14498.5
7.5°	13464.1	13683.4	14009.4	15229.4	16573.0	17123.9	17388.1	16927.1	15864.6	14779.6	13604.7
10°	12401.6	12514.0	13065.0	14537.9	15521.7	16258.1	16421.2	16157.0	15341.8	13987.0	12671.5
12.5°	11788.8	11845.1	12491.6	13728.3	14768.4	15313.7	15392.4	15516.1	14931.4	13660.9	12081.2
15°	11794.5	11839.4	12710.8	13745.2	14155.6	14009.4	14268.0	14262.4	14515.4	13599.0	12575.9
17.5°	12643.3	12693.9	13481.0	13992.6	13812.7	13469.7	13452.9	13711.5	14245.6	14369.2	13323.6
20°	14105.0	14223.1	14802.1	14774.0	13762.1	13070.6	12879.5	13076.2	14318.6	15021.4	14830.2
22.5°	16072.6	16235.7	16640.4	15864.6	13992.6	12800.8	12738.9	13121.2	14802.1	16477.4	16539.2
25°	18355.1	18630.5	18827.3	17832.2	14813.4	13267.4	12975.0	13632.8	15454.2	18057.1	18714.9
27.5°	19867.3	20154.0	20109.1	18686.7	15364.3	13391.0	13143.7	13756.5	16022.0	18433.8	19850.5
30°	21047.9	21222.2	21537.0	19147.7	15915.2	13739.6	13318.0	14279.3	16207.5	19085.9	21222.2
32.5°	22425.2	22543.3	22565.8	19962.9	16764.1	14178.1	13857.7	14931.4	17028.3	19709.9	22436.5
35°	23813.8	23988.1	23622.7	20969.2	17286.9	14993.2	14757.1	16061.4	17686.1	20356.4	23774.4
37.5°	25320.4	25410.4	24567.1	21385.2	18034.6	16320.0	16190.7	17281.3	18827.3	21525.7	25258.6
40°	26585.3	26669.7	25573.4	21896.8	18821.7	18175.2	18506.8	19608.7	20378.9	22284.7	26000.7
42.5°	27288.0	27484.8	25910.7	21615.7	20401.4	20277.7	21750.6	22138.5	22177.9	22498.3	26664.0
45°	27479.2	27389.2	25354.2	21846.2	21784.3	23735.1	25073.1	25584.7	23965.6	22891.8	26832.7
47.5°	26596.6	26714.6	24533.4	21643.8	23600.2	26354.8	28086.3	29036.4	25297.9	22548.9	26416.7
50°	25882.6	25730.8	24269.2	21497.6	24089.3	27591.6	30262.0	30475.6	26523.5	22970.5	25961.3
52.5°	26023.1	26118.7	24690.8	21885.5	24100.5	27664.7	30599.3	30453.1	26562.8	22875.0	25798.3
55°	26321.1	25899.5	24510.9	21031.0	22487.1	25624.0	27158.7	26933.9	24516.5	21857.4	25399.1
57.5°	22711.9	23364.1	22537.7	18776.7	18456.3	19305.1	19277.0	19968.5	18287.6	18810.4	23122.3
60°	18433.8	18546.2	18855.4	16061.4	12772.6	12480.3	12075.6	11637.1	12306.0	16083.9	21031.0
62.5°	16213.2	16078.2	17180.1	14611.0	9017.3	7550.0	7482.6	7752.4	9495.2	15341.8	19726.8
65°	11783.2	11951.9	12750.2	11339.1	6768.6	5762.3	5661.1	6459.4	7685.0	12294.8	15055.1
67.5°	7195.9	7521.9	7595.0	6993.5	4593.0	3648.5	3502.4	4227.6	5548.7	7954.8	8826.2
70°	3322.5	3716.0	4087.0	3817.2	2659.1	1501.0	1416.7	1776.5	2799.6	4576.1	4682.9
72.5°	1006.3	1011.9	1416.7	1478.5	860.1	337.3	298.0	393.5	950.1	1512.3	1591.0
75°	73.1	78.7	191.1	219.2	163.0	84.3	89.9	106.8	202.4	337.3	253.0
77.5°	5.6	5.6	5.6	28.1	50.6	56.2	73.1	84.3	106.8	123.7	112.4
80°	5.6	0.0	5.6	22.5	39.4	56.2	67.5	78.7	84.3	95.6	84.3
82.5°	0.0	0.0	0.0	16.9	39.4	56.2	61.8	84.3	95.6	112.4	95.6
85°	0.0	0.0	0.0	16.9	39.4	61.8	56.2	28.1	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°	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9
2.5°	15324.9	15105.7	14605.3	14352.4	13756.5	13672.1	13087.5	12991.9	12795.1	12688.3	12429.7
5°	14020.7	13756.5	12941.3	12255.4	11457.2	10900.6	10473.3	10085.4	9860.6	9652.6	9748.1
7.5°	12958.2	12188.0	11282.9	10136.0	9214.1	8618.2	7966.0	7432.0	7117.2	6903.5	6954.1
10°	11845.1	11344.7	10085.4	8798.1	7685.0	7263.3	6751.7	6341.4	5897.2	5515.0	5335.1
12.5°	11496.5	10754.4	9174.7	7864.8	7021.6	6611.2	6026.5	5554.3	4986.5	4519.9	4356.9
15°	11558.3	10844.4	8927.4	7527.5	6532.5	5824.1	5127.0	4542.4	3918.4	3592.3	3423.7
17.5°	12564.6	11327.9	9090.4	7173.4	5852.3	4868.4	4008.3	3266.2	2799.6	2462.3	2389.3
20°	13801.4	12373.5	9438.9	6914.8	5295.7	3873.4	2928.9	2288.1	1900.2	1843.9	1827.1
22.5°	15611.6	14082.5	10186.6	6740.5	4615.5	3018.9	2007.0	1664.0	1557.2	1546.0	1551.6
25°	18141.4	16224.4	11001.8	6594.3	4103.9	2327.4	1641.6	1411.1	1377.3	1360.5	1388.6
27.5°	19237.7	17517.4	11434.7	6279.5	3637.3	2096.9	1619.1	1399.8	1304.2	1276.1	1293.0
30°	20592.5	18377.5	12114.9	5739.8	2951.4	1725.9	1512.3	1523.5	1478.5	1338.0	1293.0
32.5°	22391.5	19451.3	12457.8	5357.5	2636.6	1427.9	1107.5	1017.5	1135.6	1158.1	1197.4
35°	23544.0	20541.9	12632.1	5132.7	2473.6	1219.9	938.8	854.5	826.4	832.0	854.5
37.5°	25685.8	22014.8	12851.4	4896.6	2349.9	1062.5	848.9	770.2	730.8	730.8	753.3
40°	26967.6	23184.2	13149.3	4767.3	2226.2	966.9	770.2	702.7	669.0	669.0	680.2
42.5°	27288.0	23763.2	13048.1	4722.3	2085.7	944.5	702.7	652.1	612.8	607.2	601.5
45°	27861.5	24645.8	13065.0	4671.7	1939.5	860.1	663.4	607.2	550.9	545.3	539.7
47.5°	28491.1	25281.1	13098.7	4474.9	1799.0	719.6	691.5	562.2	494.7	483.5	483.5
50°	27951.4	25787.0	13391.0	4278.2	1619.1	584.7	680.2	528.4	438.5	421.6	427.3
52.5°	28018.9	26382.9	14009.4	4002.7	1394.2	466.6	550.9	500.3	399.1	371.0	376.7
55°	26939.5	25753.3	14093.8	3710.4	1090.6	359.8	421.6	438.5	337.3	326.1	326.1
57.5°	23189.8	21806.8	12435.3	3007.6	719.6	298.0	303.6	382.3	292.3	281.1	286.7
60°	19844.8	17506.2	10006.7	1984.5	449.7	236.1	219.2	387.9	258.6	253.0	269.8
62.5°	18090.8	14386.1	7589.4	1231.2	309.2	179.9	151.8	314.8	224.9	224.9	247.4
65°	13070.6	9663.8	4413.1	646.5	219.2	140.5	112.4	179.9	185.5	191.1	202.4
67.5°	8095.3	4879.7	1860.8	314.8	146.2	95.6	73.1	112.4	123.7	123.7	134.9
70°	3997.1	1945.1	618.4	179.9	112.4	78.7	50.6	61.8	61.8	56.2	61.8
72.5°	1236.8	584.7	157.4	112.4	78.7	50.6	28.1	22.5	11.2	0.0	5.6
75°	140.5	112.4	101.2	78.7	50.6	22.5	5.6	0.0	0.0	0.0	0.0
77.5°	84.3	95.6	95.6	78.7	50.6	16.9	0.0	0.0	0.0	0.0	0.0
80°	67.5	73.1	78.7	73.1	45.0	22.5	0.0	0.0	0.0	0.0	0.0
82.5°	84.3	95.6	106.8	95.6	61.8	28.1	11.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	16.9	5.6	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°	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9
2.5°	12322.9	12199.2	12373.5	12114.9	12109.3	12114.9	12041.8	11974.4	12081.2	12367.9	12396.0
5°	9405.2	9669.4	9753.8	10029.2	9877.4	9652.6	9697.5	9545.8	9916.8	10079.8	9950.5
7.5°	6847.3	6830.4	7398.2	7432.0	7505.1	7510.7	7499.4	7201.5	6897.9	6965.4	7167.8
10°	5312.6	5025.9	5301.3	5273.2	5453.1	5402.5	5475.6	5155.2	5262.0	5262.0	5391.3
12.5°	4328.8	4025.2	3974.6	3901.5	3974.6	4002.7	4030.8	3969.0	4148.9	4233.2	4323.1
15°	3305.6	3136.9	3092.0	2951.4	2973.9	3052.6	3120.1	3148.2	3092.0	3221.3	3232.5
17.5°	2400.5	2394.9	2423.0	2417.4	2394.9	2378.0	2372.4	2299.3	2276.8	2288.1	2333.0
20°	1821.5	1866.4	1962.0	2057.6	2108.2	2046.3	1962.0	1838.3	1787.7	1799.0	1804.6
22.5°	1557.2	1624.7	1754.0	1860.8	1911.4	1799.0	1647.2	1540.4	1517.9	1512.3	1506.6
25°	1411.1	1489.8	1585.3	1619.1	1613.4	1546.0	1433.6	1388.6	1377.3	1366.1	1315.5
27.5°	1332.4	1360.5	1377.3	1416.7	1433.6	1388.6	1360.5	1293.0	1281.8	1281.8	1248.0
30°	1287.4	1270.5	1293.0	1264.9	1287.4	1253.7	1259.3	1259.3	1231.2	1242.4	1242.4
32.5°	1197.4	1203.1	1203.1	1146.8	1163.7	1124.4	1163.7	1197.4	1203.1	1208.7	1253.7
35°	877.0	978.2	1028.8	1028.8	1045.6	1017.5	1011.9	972.6	922.0	871.4	848.9
37.5°	770.2	809.5	877.0	916.3	944.5	922.0	871.4	809.5	781.4	758.9	736.5
40°	685.9	719.6	764.6	809.5	865.8	837.6	758.9	730.8	697.1	697.1	674.6
42.5°	618.4	635.3	663.4	730.8	792.7	736.5	680.2	657.7	640.9	635.3	629.6
45°	556.6	562.2	590.3	646.5	719.6	663.4	607.2	579.0	584.7	590.3	584.7
47.5°	500.3	511.6	528.4	595.9	640.9	612.8	550.9	534.1	534.1	534.1	539.7
50°	432.9	461.0	494.7	550.9	584.7	567.8	517.2	494.7	483.5	483.5	489.1
52.5°	387.9	410.4	455.4	522.8	567.8	539.7	489.1	455.4	432.9	427.3	438.5
55°	337.3	376.7	449.7	500.3	562.2	534.1	477.9	438.5	399.1	393.5	393.5
57.5°	303.6	365.4	432.9	494.7	545.3	522.8	477.9	427.3	376.7	371.0	371.0
60°	286.7	354.2	421.6	477.9	545.3	511.6	472.2	416.0	359.8	359.8	354.2
62.5°	269.8	331.7	399.1	455.4	522.8	494.7	455.4	399.1	342.9	342.9	331.7
65°	224.9	286.7	331.7	382.3	455.4	427.3	387.9	348.5	303.6	292.3	298.0
67.5°	157.4	196.8	241.7	292.3	337.3	326.1	309.2	281.1	241.7	236.1	230.5
70°	78.7	106.8	146.2	196.8	236.1	224.9	213.6	191.1	168.7	163.0	163.0
72.5°	11.2	33.7	61.8	89.9	123.7	129.3	123.7	118.1	112.4	106.8	112.4
75°	0.0	0.0	0.0	22.5	50.6	61.8	73.1	84.3	84.3	73.1	89.9
77.5°	0.0	0.0	0.0	0.0	5.6	28.1	56.2	73.1	89.9	78.7	106.8
80°	0.0	0.0	0.0	0.0	5.6	33.7	56.2	78.7	89.9	78.7	112.4
82.5°	0.0	0.0	0.0	0.0	5.6	39.4	56.2	73.1	84.3	78.7	101.2
85°	0.0	0.0	0.0	0.0	16.9	33.7	22.5	11.2	5.6	5.6	16.9
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: P533097

CATALOG NUMBER: GALN-SA8C-730-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9	14492.9
2.5°	12553.4	12952.5	13379.8	13542.8	14048.8	14431.1	14689.7	15246.2	15330.6	15336.2
5°	10085.4	10287.8	11018.7	11361.6	12114.9	12699.6	13323.6	14223.1	14824.6	14869.6
7.5°	7167.8	7729.9	8039.1	8933.0	9860.6	10776.9	11704.5	12750.2	13447.3	13464.1
10°	5767.9	6133.3	6684.3	7353.3	8134.7	9067.9	10304.7	11519.0	12227.3	12401.6
12.5°	4643.6	5284.5	5914.1	6605.6	7201.5	7904.2	9236.6	10855.6	11440.3	11788.8
15°	3575.4	4160.1	4902.2	5711.7	6386.3	7325.2	8843.0	10692.6	11676.4	11794.5
17.5°	2636.6	3159.4	3845.3	4609.8	5621.8	6954.1	8910.5	11519.0	12446.6	12643.3
20°	1894.5	2198.1	2737.8	3626.0	4913.4	6521.2	8978.0	12356.6	13767.7	14105.0
22.5°	1501.0	1624.7	1978.9	2765.9	4120.8	6065.9	9455.8	13958.8	15583.5	16072.6
25°	1304.2	1371.7	1540.4	2181.2	3620.4	6020.9	10220.4	15881.5	18000.9	18355.1
27.5°	1259.3	1270.5	1416.7	2001.3	3350.6	5723.0	10512.7	17247.6	19507.5	19867.3
30°	1326.7	1506.6	1517.9	1692.2	2850.2	5132.7	10664.5	18568.7	20783.7	21047.9
32.5°	1146.8	1090.6	1130.0	1309.9	2507.3	4789.7	10951.2	19721.2	22239.7	22425.2
35°	798.3	837.6	927.6	1135.6	2192.5	4430.0	11024.3	20991.7	23622.7	23813.8
37.5°	736.5	758.9	832.0	966.9	1928.3	4227.6	10923.1	21919.3	25056.2	25320.4
40°	685.9	714.0	753.3	877.0	1731.5	4002.7	10782.5	22756.9	25933.2	26585.3
42.5°	646.5	669.0	702.7	837.6	1562.9	3777.8	10585.8	23937.5	26720.2	27288.0
45°	601.5	635.3	674.6	815.2	1467.3	3626.0	10439.6	23864.4	27175.6	27479.2
47.5°	556.6	612.8	657.7	758.9	1439.2	3553.0	10501.5	23588.9	26804.6	26596.6
50°	511.6	584.7	663.4	629.6	1371.7	3406.8	10574.5	23965.6	25922.0	25882.6
52.5°	472.2	556.6	618.4	517.2	1219.9	3266.2	11282.9	24460.3	26546.0	26023.1
55°	416.0	500.3	494.7	416.0	989.4	3159.4	11839.4	24471.5	26124.3	26321.1
57.5°	376.7	444.1	387.9	348.5	730.8	2642.2	10934.3	20519.4	22363.4	22711.9
60°	348.5	432.9	292.3	275.5	477.9	1905.8	9545.8	15892.7	17776.0	18433.8
62.5°	320.4	410.4	230.5	224.9	331.7	1354.8	7848.0	13301.1	15319.3	16213.2
65°	281.1	292.3	185.5	174.3	236.1	730.8	4778.5	9157.9	11451.5	11783.2
67.5°	230.5	224.9	151.8	140.5	157.4	354.2	2108.2	4587.4	6639.3	7195.9
70°	185.5	185.5	129.3	112.4	112.4	163.0	550.9	1827.1	3002.0	3322.5
72.5°	134.9	140.5	101.2	89.9	84.3	78.7	89.9	365.4	787.0	1006.3
75°	118.1	123.7	101.2	78.7	61.8	50.6	39.4	33.7	45.0	73.1
77.5°	129.3	129.3	106.8	73.1	56.2	39.4	22.5	11.2	11.2	5.6
80°	163.0	168.7	140.5	95.6	67.5	45.0	28.1	11.2	5.6	5.6
82.5°	174.3	191.1	157.4	118.1	84.3	50.6	28.1	5.6	0.0	0.0
85°	45.0	73.1	123.7	106.8	84.3	50.6	28.1	5.6	0.0	0.0
87.5°	0.0	5.6	16.9	16.9	22.5	22.5	16.9	5.6	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)