

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: P457888

Luminaire Tested: **GALN-SA9B-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40495 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

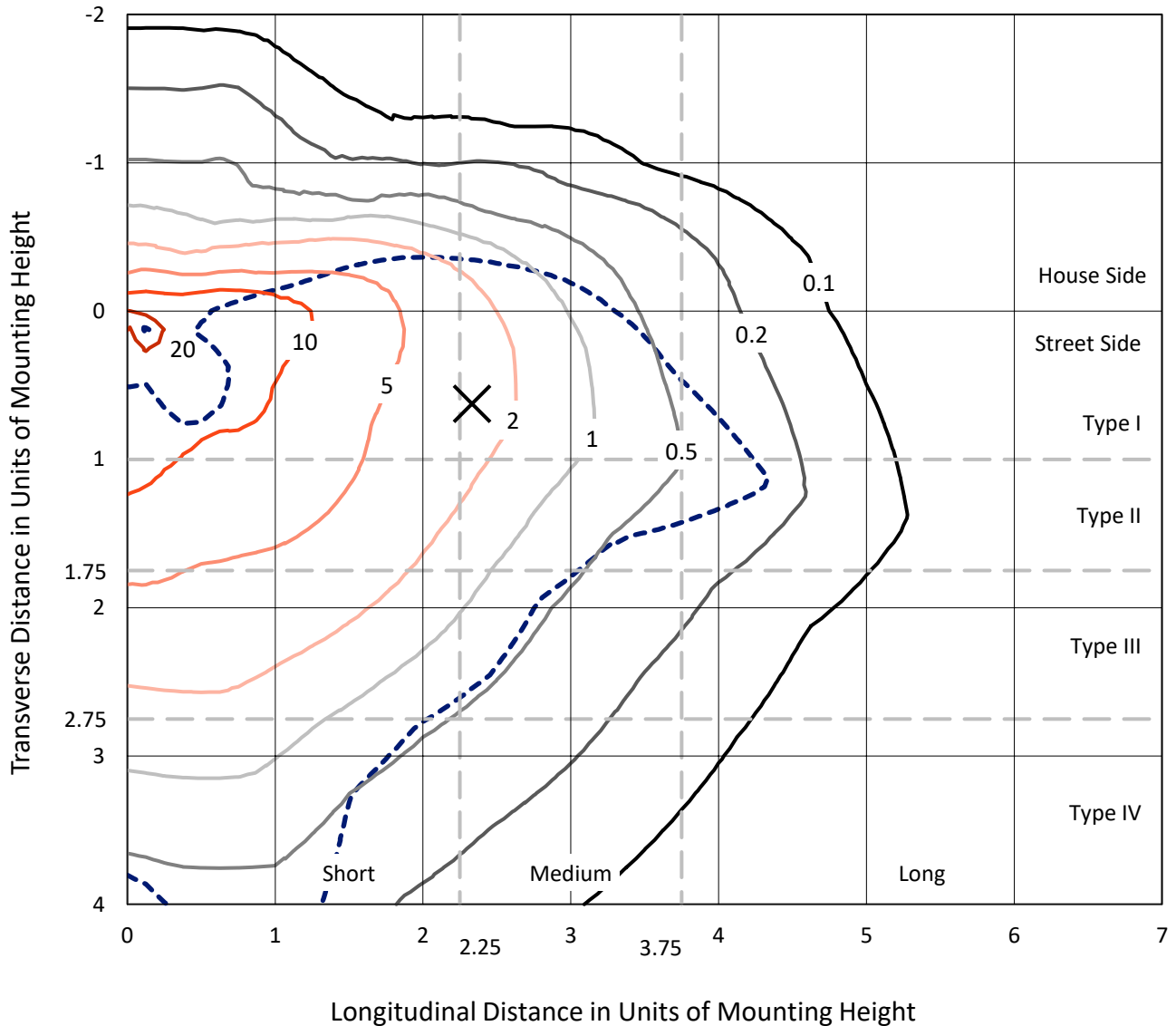
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

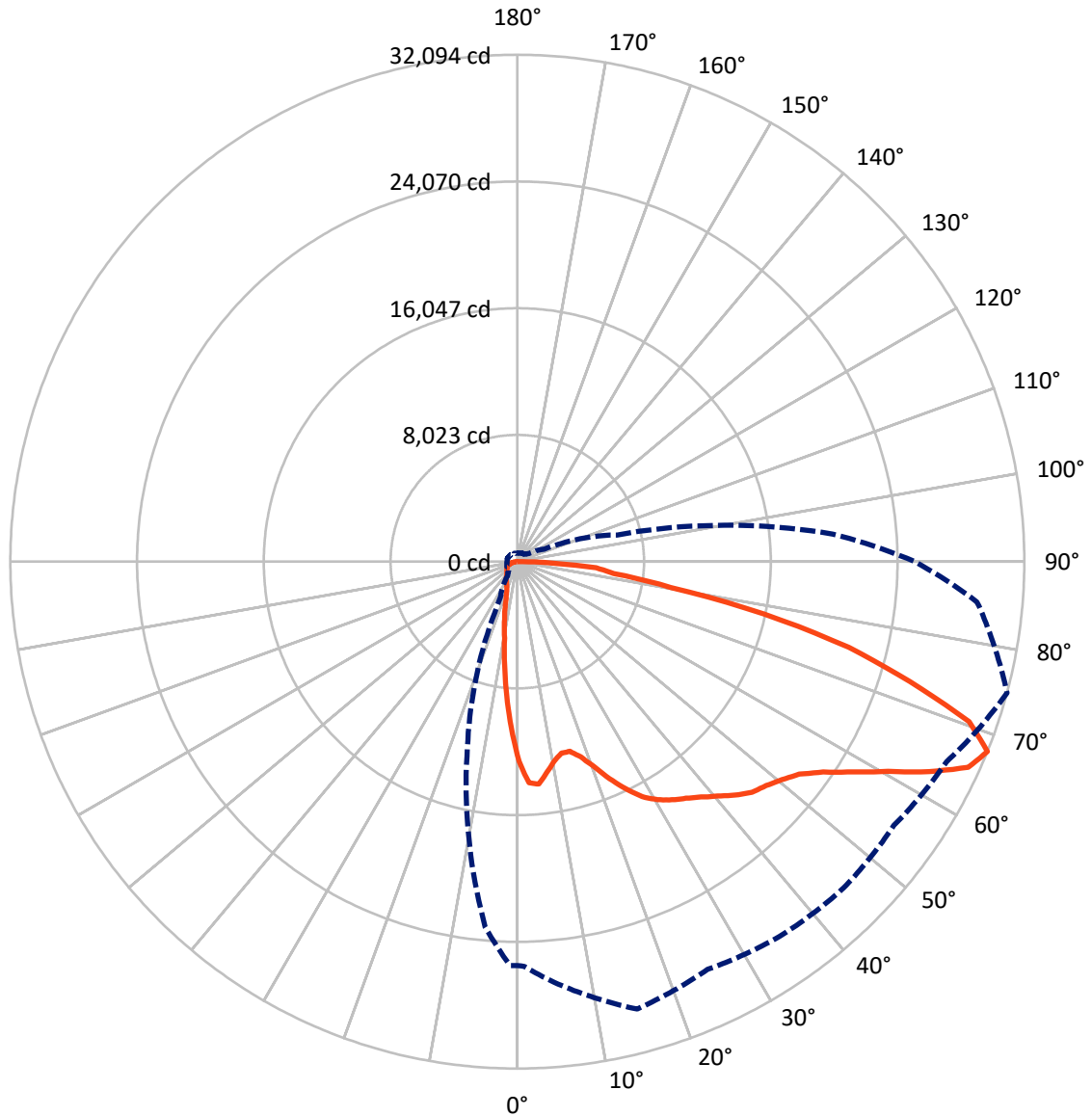
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6844.5	0.0	6844.5
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	33650.5	0.0	33650.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	40495.0	0.0	40495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	959.6	2.4
10°-20°	2001.3	4.9
20°-30°	2879.8	7.1
30°-40°	4147.8	10.2
40°-50°	5826.5	14.4
50°-60°	8125.9	20.1
60°-70°	9661.1	23.9
70°-80°	5689.9	14.1
80°-90°	1203.2	3.0
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°	40495.0	100.0
0°-180°	40495.0	100.0

Coefficient of Utilization



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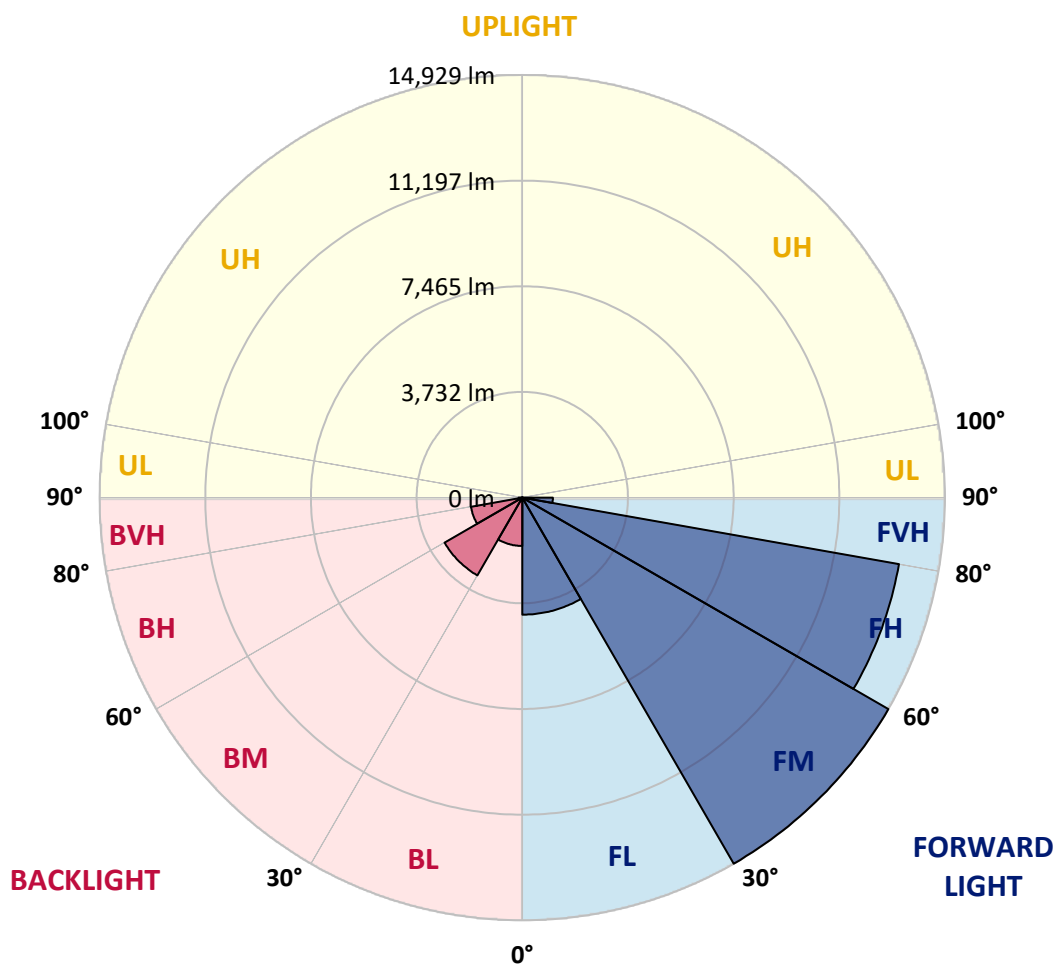
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4133.4	10.2			
FM	(30°-60°)	14929.0	36.9			
FH	(60°-80°)	13509.3	33.4			G5
FVH	(80°-90°)	1078.7	2.7			G5
BL	(0°-30°)	1707.2	4.2	B3/2500		
BM	(30°-60°)	3171.1	7.8	B3/5000		
BH	(60°-80°)	1841.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	124.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6
2.5°	13641.0	13659.2	13776.0	14116.2	14349.9	14435.6	14495.3	14383.7	14274.6	14009.7	13609.8
5°	13599.4	13705.9	14009.7	14773.2	15375.6	15635.3	15713.2	15378.2	14825.1	14144.8	13326.8
7.5°	12804.8	12947.6	13415.1	14695.3	15757.4	16365.0	16284.5	15679.5	14682.3	13469.6	12327.0
10°	11862.2	12020.6	12584.1	14131.8	15500.3	16336.5	16336.5	15599.0	14274.6	12833.4	11516.8
12.5°	11114.3	11280.5	11924.5	13552.7	14965.3	15757.4	15889.8	15256.2	13981.2	12430.9	10984.5
15°	10867.6	11028.6	11721.9	13202.1	14399.2	14882.2	14926.4	14718.6	13838.3	12459.4	10961.1
17.5°	11174.0	11381.8	12082.9	13306.0	13879.9	13908.4	13942.2	14105.8	13853.9	12981.4	11433.7
20°	12059.5	12282.9	13015.1	13641.0	13425.4	13129.4	13147.6	13568.3	14038.3	13843.5	12563.3
22.5°	13337.2	13531.9	14282.4	14230.4	13233.3	12623.0	12495.8	13082.7	14310.9	14918.6	13765.6
25°	14716.1	14944.6	15806.7	15105.6	13287.8	12321.8	12241.3	12797.0	14594.0	15923.6	15154.9
27.5°	16294.9	16518.2	17198.6	15988.5	13573.5	12298.4	12202.4	12771.0	14848.5	16853.2	16481.9
30°	17468.7	17673.8	18136.0	16731.2	13924.0	12454.2	12334.8	12976.2	15066.6	17489.4	17775.1
32.5°	18390.5	18603.5	18855.3	17193.4	14386.3	12737.3	12516.6	13350.1	15352.3	17975.0	18733.3
35°	19351.3	19603.2	19585.0	17603.7	14817.3	13064.5	12849.0	13890.3	15801.5	18398.3	19948.6
37.5°	20569.2	20670.5	20540.7	17972.4	15334.1	13654.0	13534.5	14692.7	16440.3	18909.9	21369.0
40°	21805.3	22007.9	21340.5	18419.1	15962.5	14762.8	14749.8	15879.4	17198.6	19509.7	22745.3
42.5°	22864.8	23036.2	22088.4	18808.6	16723.4	16115.7	16214.4	17471.3	18193.2	20205.7	23851.6
45°	23662.0	23815.2	22779.1	19185.1	17725.7	17679.0	18260.7	19177.3	19447.4	20831.5	24500.8
47.5°	24339.8	24487.8	23259.5	19756.4	18964.4	19546.1	20558.8	20956.2	20519.9	21189.9	25227.9
50°	24911.1	24955.2	23589.3	20436.8	20501.7	21833.9	22815.5	23072.5	21579.4	21704.0	25858.9
52.5°	25505.7	25448.6	24158.0	21293.7	22163.7	24004.8	24718.9	24986.4	22594.7	22337.7	26778.2
55°	26837.9	26892.4	25433.0	22374.0	23843.8	26136.8	27076.8	26819.7	23719.1	23503.6	27946.7
57.5°	28447.9	28401.2	27227.4	24064.5	25555.1	28120.7	28821.9	28409.0	25220.1	25105.8	29130.9
60°	29073.7	29136.1	28728.4	25882.3	27243.0	29858.0	30574.7	29933.3	27019.7	26967.7	30024.2
62.5°	28445.3	28795.9	29071.1	27500.1	28681.6	31135.6	31847.1	31114.8	28897.2	29273.7	30650.0
65°	27193.7	27269.0	28206.4	28871.2	29375.0	31345.9	31717.3	31327.8	30465.6	31374.5	30621.4
67.5°	25568.1	25633.0	26731.4	29320.4	28481.7	28956.9	29216.6	29102.3	29980.0	32093.8	29211.4
70°	24020.4	23968.4	25129.2	28175.3	24794.2	24072.3	24287.8	23929.5	25869.3	30335.8	26445.8
72.5°	21008.1	21195.1	22441.5	24991.6	19631.8	18458.0	18928.1	18001.0	19896.7	25981.0	21465.1
75°	16455.9	16500.0	18580.1	20974.3	14809.5	12958.0	13594.2	13207.3	15240.6	21672.9	14822.5
77.5°	11394.7	11296.1	13531.9	16019.6	10561.2	9486.1	9496.5	9312.1	10641.7	15957.3	10070.4
80°	7237.3	7086.7	8470.8	9896.4	7258.0	7764.4	7509.9	7502.1	6928.3	9844.5	6089.5
82.5°	3910.8	4077.0	5352.0	6203.7	5206.6	6001.2	5500.0	5339.0	4754.7	6162.2	3895.2
85°	1781.4	1937.2	2853.9	4219.8	3954.9	3999.1	2672.1	3152.5	3934.1	5004.0	2080.0
87.5°	174.0	223.3	589.5	1991.7	1350.3	1064.7	397.3	766.1	989.4	1778.8	166.2
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°	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6
2.5°	13446.2	13311.2	12851.5	12472.4	12069.9	11763.5	11363.6	11096.1	10911.7	10633.9	10600.1
5°	12828.2	12498.4	11698.6	10883.2	10179.4	9649.7	9112.2	8618.8	8327.9	8237.0	8120.2
7.5°	11786.9	11231.1	10202.8	9268.0	8460.4	7670.9	7063.3	6632.2	6344.0	6175.2	5972.6
10°	10929.9	10285.9	9034.3	7889.1	7224.3	6733.5	6198.6	5736.3	5380.6	5076.7	4910.5
12.5°	10353.4	9626.3	8218.9	7289.2	6775.0	6253.1	5627.3	5107.9	4583.3	4238.0	4090.0
15°	10179.4	9410.8	7967.0	6990.6	6253.1	5570.1	4869.0	4191.2	3671.9	3344.7	3235.6
17.5°	10605.3	9675.7	7964.4	6593.3	5640.2	4824.8	3926.4	3290.1	2757.8	2513.7	2435.8
20°	11399.9	10184.6	7987.7	6201.2	4975.5	3827.7	2856.5	2334.5	2080.0	1976.2	1937.2
22.5°	12508.8	10961.1	8057.9	5814.2	4248.4	2939.6	2139.8	1874.9	1784.0	1765.8	1758.0
25°	13874.7	11921.9	8294.2	5466.3	3635.5	2243.6	1789.2	1669.7	1617.8	1599.6	1597.0
27.5°	15131.5	13163.2	8579.8	5167.6	3043.4	1934.6	1617.8	1516.5	1464.6	1462.0	1467.2
30°	16266.3	14201.9	8818.7	4832.6	2594.2	1719.1	1506.1	1404.9	1355.5	1352.9	1368.5
32.5°	17247.9	15056.2	8995.3	4502.8	2344.9	1586.6	1404.9	1295.8	1254.3	1246.5	1254.3
35°	18297.0	15908.0	8914.8	4245.8	2202.1	1477.6	1329.6	1223.1	1173.8	1150.4	1150.4
37.5°	19494.2	16785.7	8777.2	4032.8	2137.2	1386.7	1264.6	1160.8	1111.4	1088.1	1085.5
40°	20800.3	17663.4	8587.6	3843.3	2072.2	1332.2	1220.5	1111.4	1051.7	1028.3	1023.1
42.5°	21953.3	18413.9	8431.8	3718.6	1965.8	1342.5	1181.5	1075.1	999.8	968.6	966.0
45°	22955.7	19169.6	8403.2	3645.9	1877.5	1327.0	1171.2	1046.5	958.2	924.5	919.3
47.5°	23739.9	19956.4	8566.8	3604.4	1781.4	1243.9	1238.7	1028.3	921.9	885.5	880.3
50°	24695.5	21073.0	8940.8	3518.7	1693.1	1166.0	1308.8	1025.7	893.3	846.6	833.6
52.5°	25968.0	22527.2	9447.1	3365.4	1565.9	1093.3	1249.1	1025.7	859.5	812.8	797.2
55°	27892.2	24381.3	9943.1	3149.9	1386.7	997.2	1127.0	994.6	810.2	768.7	758.3
57.5°	29167.2	25736.9	10259.9	2851.3	1163.4	927.1	971.2	945.2	760.9	716.7	716.7
60°	29232.1	26100.4	10109.3	2474.7	1023.1	862.1	844.0	953.0	716.7	670.0	664.8
62.5°	28484.3	25209.7	9325.1	2137.2	947.8	792.0	763.5	836.2	672.6	625.8	618.0
65°	27315.7	22937.5	7964.4	1976.2	906.3	729.7	688.2	685.6	625.8	581.7	571.3
67.5°	25168.2	20044.7	6543.9	1882.7	885.5	659.6	620.6	607.7	571.3	534.9	529.7
70°	22002.7	16788.3	5248.1	1843.7	875.1	586.9	555.7	540.1	509.0	480.4	477.8
72.5°	17118.1	13617.6	4331.5	1817.8	869.9	519.4	485.6	464.8	446.6	420.7	420.7
75°	12295.8	10018.4	3305.7	1638.6	805.0	446.6	410.3	397.3	371.3	350.6	355.8
77.5°	7751.4	6746.5	2176.1	1204.9	623.2	358.4	327.2	319.4	298.6	270.1	288.2
80°	5235.1	4744.3	1269.8	758.3	392.1	262.3	251.9	249.3	225.9	194.8	197.4
82.5°	3562.8	3495.3	659.6	431.1	225.9	153.2	148.0	153.2	127.2	103.9	103.9
85°	1391.9	1900.9	311.6	168.8	72.7	23.4	33.8	36.4	20.8	10.4	13.0
87.5°	26.0	194.8	7.8	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°	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6
2.5°	10548.2	10524.8	10563.8	10397.6	10431.3	10493.7	10524.8	10543.0	10800.1	10740.4	10904.0
5°	8229.3	8205.9	8356.5	8377.3	8455.2	8439.6	8514.9	8533.1	8626.6	8660.3	8888.8
7.5°	5985.6	6086.9	6258.3	6346.6	6479.0	6520.6	6481.6	6577.7	6382.9	6523.2	6564.7
10°	4809.3	4687.2	4614.5	4817.1	4843.0	5035.2	4957.3	4895.0	5009.2	5014.4	5123.5
12.5°	4004.3	3742.0	3568.0	3625.1	3687.5	3770.5	3783.5	3908.2	3991.3	4069.2	4134.1
15°	3139.5	3048.6	2890.2	2812.3	2900.6	2934.4	3014.9	3118.8	3207.0	3230.4	3318.7
17.5°	2409.8	2425.4	2399.4	2352.7	2407.2	2433.2	2438.4	2441.0	2464.4	2448.8	2578.6
20°	1939.8	1994.3	2059.3	2069.6	2087.8	2100.8	2077.4	1989.1	1991.7	2046.3	2087.8
22.5°	1755.4	1765.8	1838.5	1861.9	1919.0	1895.7	1828.1	1786.6	1781.4	1794.4	1815.2
25°	1610.0	1625.6	1677.5	1713.9	1758.0	1716.5	1667.1	1628.2	1623.0	1636.0	1656.8
27.5°	1480.2	1503.5	1550.3	1586.6	1628.2	1589.2	1542.5	1508.7	1506.1	1503.5	1516.5
30°	1376.3	1402.3	1436.0	1477.6	1506.1	1472.4	1428.2	1410.1	1407.5	1402.3	1407.5
32.5°	1272.4	1314.0	1347.7	1368.5	1397.1	1371.1	1337.4	1327.0	1308.8	1293.2	1285.4
35°	1155.6	1199.7	1251.7	1277.6	1306.2	1280.2	1256.8	1212.7	1181.5	1178.9	1184.1
37.5°	1088.1	1106.2	1147.8	1191.9	1220.5	1207.5	1163.4	1119.2	1111.4	1111.4	1116.6
40°	1028.3	1036.1	1054.3	1111.4	1163.4	1124.4	1069.9	1056.9	1056.9	1054.3	1056.9
42.5°	968.6	976.4	976.4	1020.5	1103.6	1041.3	999.8	999.8	999.8	1002.4	1010.2
45°	914.1	916.7	914.1	945.2	1023.1	971.2	942.6	950.4	955.6	960.8	966.0
47.5°	867.3	869.9	867.3	893.3	932.3	911.5	895.9	906.3	916.7	924.5	929.7
50°	825.8	823.2	828.4	844.0	862.1	867.3	856.9	872.5	877.7	888.1	901.1
52.5°	789.4	786.8	792.0	799.8	825.8	825.8	825.8	838.8	849.2	859.5	877.7
55°	747.9	750.5	758.3	768.7	802.4	797.2	799.8	810.2	820.6	836.2	846.6
57.5°	708.9	714.1	724.5	740.1	773.8	771.2	773.8	779.0	792.0	799.8	810.2
60°	664.8	675.2	688.2	698.5	732.3	729.7	742.7	753.1	760.9	760.9	766.1
62.5°	620.6	636.2	649.2	657.0	693.3	695.9	714.1	721.9	727.1	721.9	729.7
65°	576.5	599.9	605.1	615.4	651.8	654.4	675.2	693.3	688.2	683.0	695.9
67.5°	532.3	560.9	558.3	571.3	607.7	612.8	631.0	662.2	651.8	646.6	657.0
70°	483.0	503.8	506.4	514.2	563.5	555.7	584.3	612.8	605.1	607.7	607.7
72.5°	428.5	446.6	446.6	462.2	514.2	501.2	524.6	555.7	555.7	553.1	553.1
75°	363.6	373.9	384.3	407.7	462.2	446.6	462.2	490.8	496.0	490.8	490.8
77.5°	293.4	309.0	314.2	345.4	384.3	381.7	397.3	410.3	420.7	415.5	415.5
80°	207.7	223.3	244.1	277.9	301.2	309.0	316.8	327.2	332.4	332.4	337.6
82.5°	116.9	140.2	158.4	192.2	202.6	241.5	238.9	246.7	238.9	210.3	233.7
85°	26.0	49.3	70.1	88.3	101.3	140.2	148.0	166.2	137.6	127.2	127.2
87.5°	0.0	0.0	0.0	0.0	0.0	20.8	41.5	57.1	49.3	41.5	41.5
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: P457888

CATALOG NUMBER: GALN-SA9B-730-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6	12651.6
2.5°	11041.6	11267.5	11540.2	12010.2	12340.0	12695.7	13054.1	13435.8	13537.1	13641.0
5°	8951.2	9395.2	9636.7	10267.7	10929.9	11771.3	12459.4	13212.5	13526.7	13599.4
7.5°	6780.2	7081.5	7715.1	8353.9	9174.5	10057.4	11111.7	12285.4	12651.6	12804.8
10°	5375.4	5785.7	6341.4	7026.9	7746.2	8696.7	9886.0	11257.1	11776.5	11862.2
12.5°	4575.6	5032.6	5637.6	6362.2	7042.5	7759.2	8959.0	10374.2	10929.9	11114.3
15°	3658.9	4212.0	4910.5	5674.0	6414.1	7198.3	8413.6	10010.7	10652.1	10867.6
17.5°	2874.7	3321.3	4077.0	4905.4	5783.1	6775.0	8299.4	10184.6	10974.1	11174.0
20°	2199.5	2518.9	3155.1	4030.2	5058.6	6357.0	8327.9	10841.6	11786.9	12059.5
22.5°	1900.9	2064.5	2451.4	3284.9	4435.3	5993.4	8444.8	11742.7	12882.7	13337.2
25°	1721.7	1807.4	2025.5	2570.8	3840.7	5640.2	8712.3	12955.4	14414.8	14716.1
27.5°	1568.5	1630.8	1765.8	2157.9	3300.5	5313.0	9023.9	14300.6	15845.7	16294.9
30°	1423.0	1506.1	1633.4	1916.4	2955.2	5014.4	9416.0	15391.2	17050.6	17468.7
32.5°	1311.4	1394.5	1511.3	1747.6	2661.7	4700.2	9649.7	16349.4	18034.8	18390.5
35°	1220.5	1290.6	1412.7	1612.6	2438.4	4461.3	9603.0	17110.3	18987.8	19351.3
37.5°	1155.6	1215.3	1337.4	1485.4	2269.6	4212.0	9579.6	18115.3	20148.6	20569.2
40°	1095.8	1158.2	1269.8	1402.3	2100.8	3918.6	9592.6	19112.4	21384.6	21805.3
42.5°	1049.1	1119.2	1210.1	1378.9	1926.8	3682.3	9592.6	19979.8	22459.7	22864.8
45°	1010.2	1085.5	1173.8	1376.3	1789.2	3503.1	9527.6	20725.0	23316.6	23662.0
47.5°	976.4	1059.5	1186.7	1329.6	1755.4	3373.2	9470.5	21322.3	24015.2	24339.8
50°	953.0	1051.7	1262.0	1275.0	1765.8	3334.3	9745.8	22075.4	24630.6	24911.1
52.5°	934.8	1054.3	1259.4	1194.5	1747.6	3360.3	10319.7	23251.7	25485.0	25505.7
55°	898.5	1051.7	1194.5	1103.6	1672.3	3404.4	11057.2	24960.4	26822.3	26837.9
57.5°	862.1	1023.1	1108.8	1025.7	1519.1	3404.4	11945.3	26578.2	28434.9	28447.9
60°	825.8	1064.7	973.8	958.2	1319.2	3342.1	12882.7	27289.7	28941.3	29073.7
62.5°	789.4	1072.5	869.9	898.5	1173.8	3191.5	13581.2	26502.9	28255.8	28445.3
65°	747.9	864.7	802.4	836.2	1098.4	2939.6	13360.5	25061.7	26967.7	27193.7
67.5°	698.5	732.3	729.7	771.2	1072.5	2568.2	12197.2	23238.7	25581.0	25568.1
70°	638.8	657.0	664.8	708.9	1023.1	2280.0	10163.9	20873.1	23729.5	24020.4
72.5°	576.5	592.1	599.9	638.8	973.8	2116.4	7889.1	17614.1	20553.7	21008.1
75°	509.0	519.4	529.7	563.5	921.9	1874.9	5619.5	13446.2	15741.8	16455.9
77.5°	438.9	438.9	451.8	485.6	776.4	1547.7	3770.5	9431.6	10665.0	11394.7
80°	355.8	358.4	353.2	389.5	571.3	1059.5	2142.4	6299.8	7097.0	7237.3
82.5°	272.7	264.9	267.5	285.6	425.9	721.9	1142.6	3913.4	3988.7	3910.8
85°	171.4	171.4	166.2	187.0	272.7	376.5	623.2	2396.8	1872.3	1781.4
87.5°	70.1	57.1	64.9	75.3	129.8	153.2	244.1	493.4	189.6	174.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)