

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: P457946

Luminaire Tested: **GALN-SA9B-750-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457946
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-750-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 44465 lumens
Efficiency: N/A
Efficacy: 122.2 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

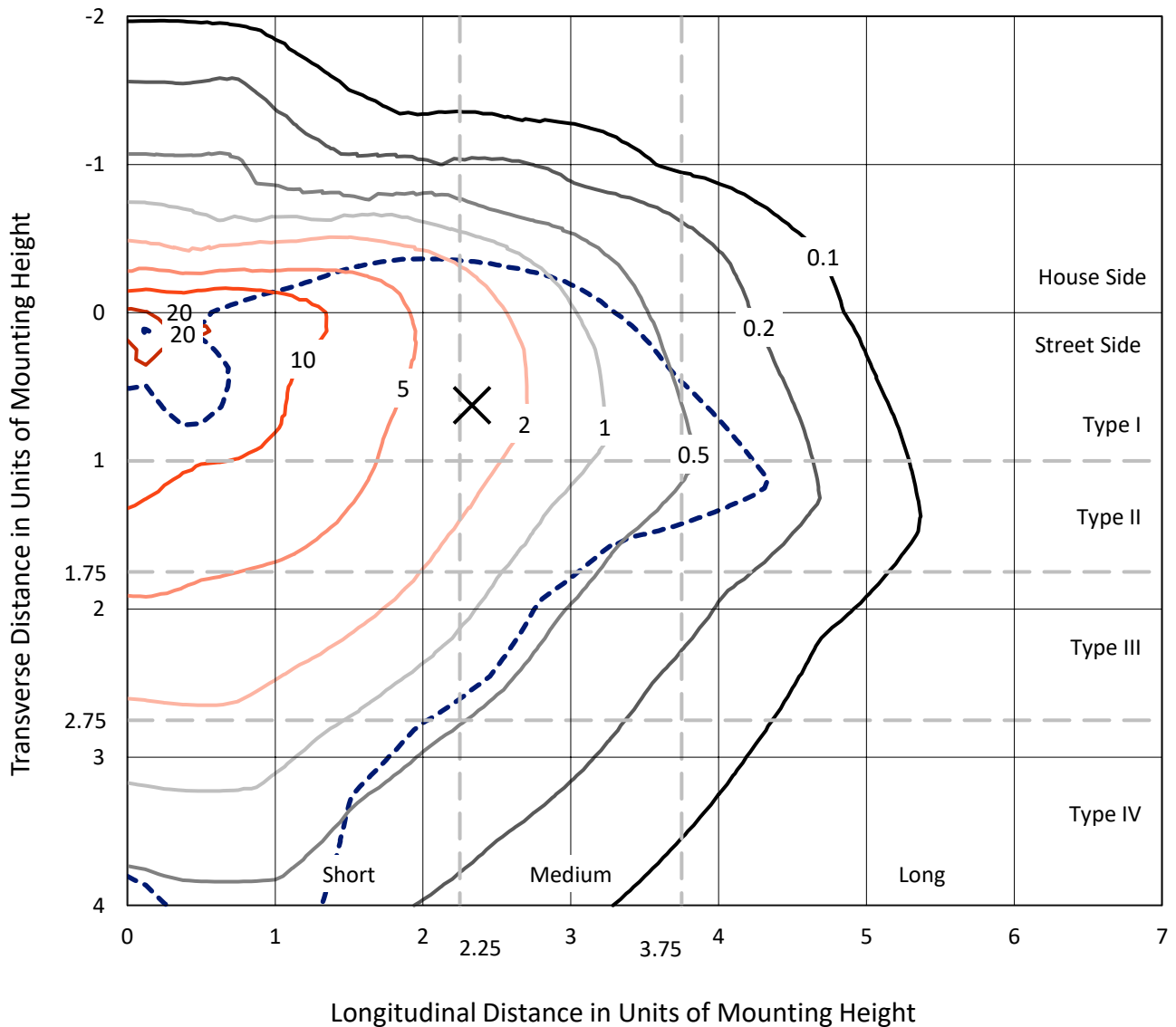
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

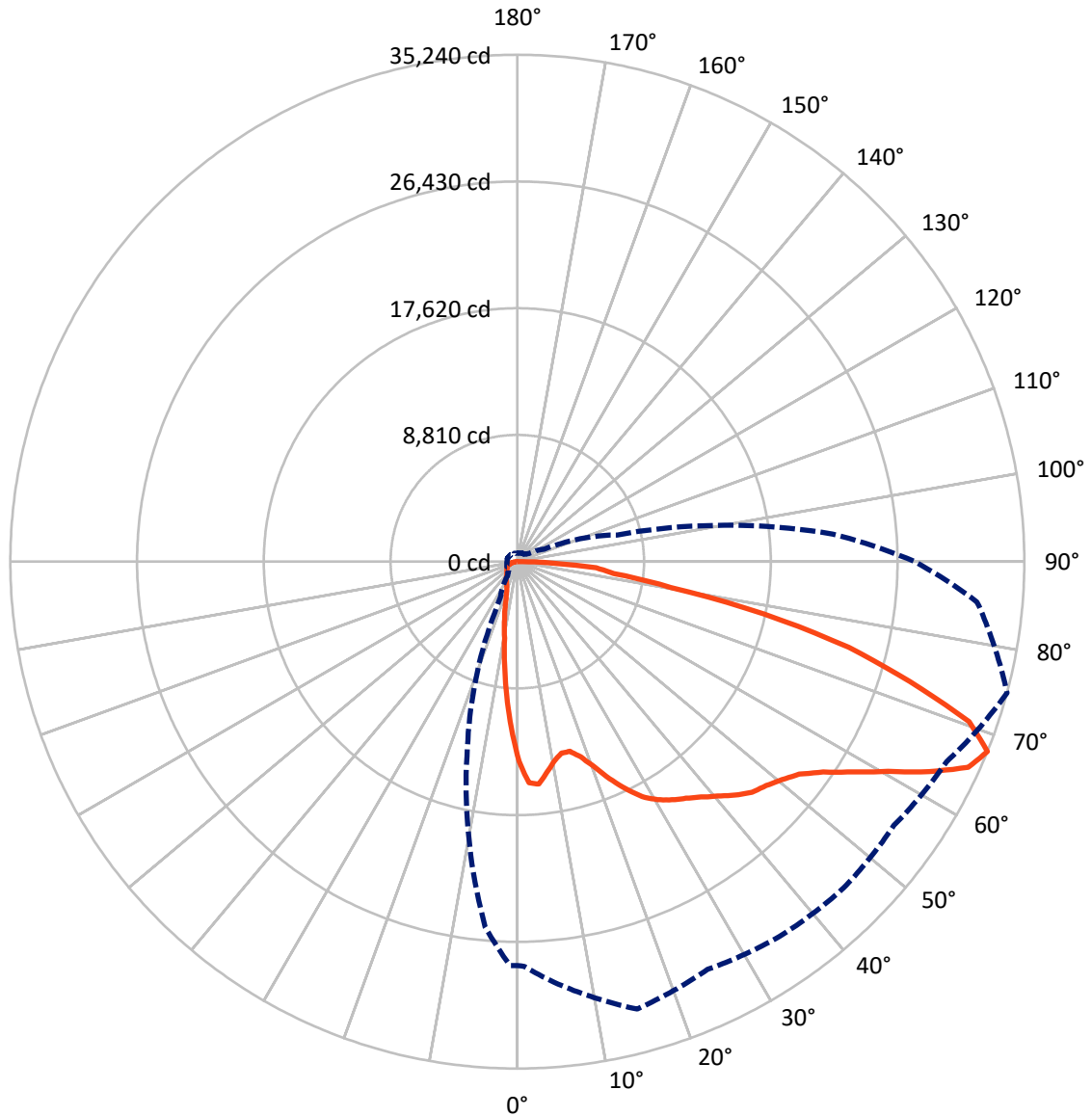
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.4 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	7515.5	0.0	7515.5
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	36949.5	0.0	36949.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	44465.0	0.0	44465.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1053.7	2.4
10°-20°	2197.4	4.9
20°-30°	3162.2	7.1
30°-40°	4554.4	10.2
40°-50°	6397.7	14.4
50°-60°	8922.5	20.1
60°-70°	10608.3	23.9
70°-80°	6247.7	14.1
80°-90°	1321.2	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°	44465.0	100.0
0°-180°	44465.0	100.0

Coefficient of Utilization



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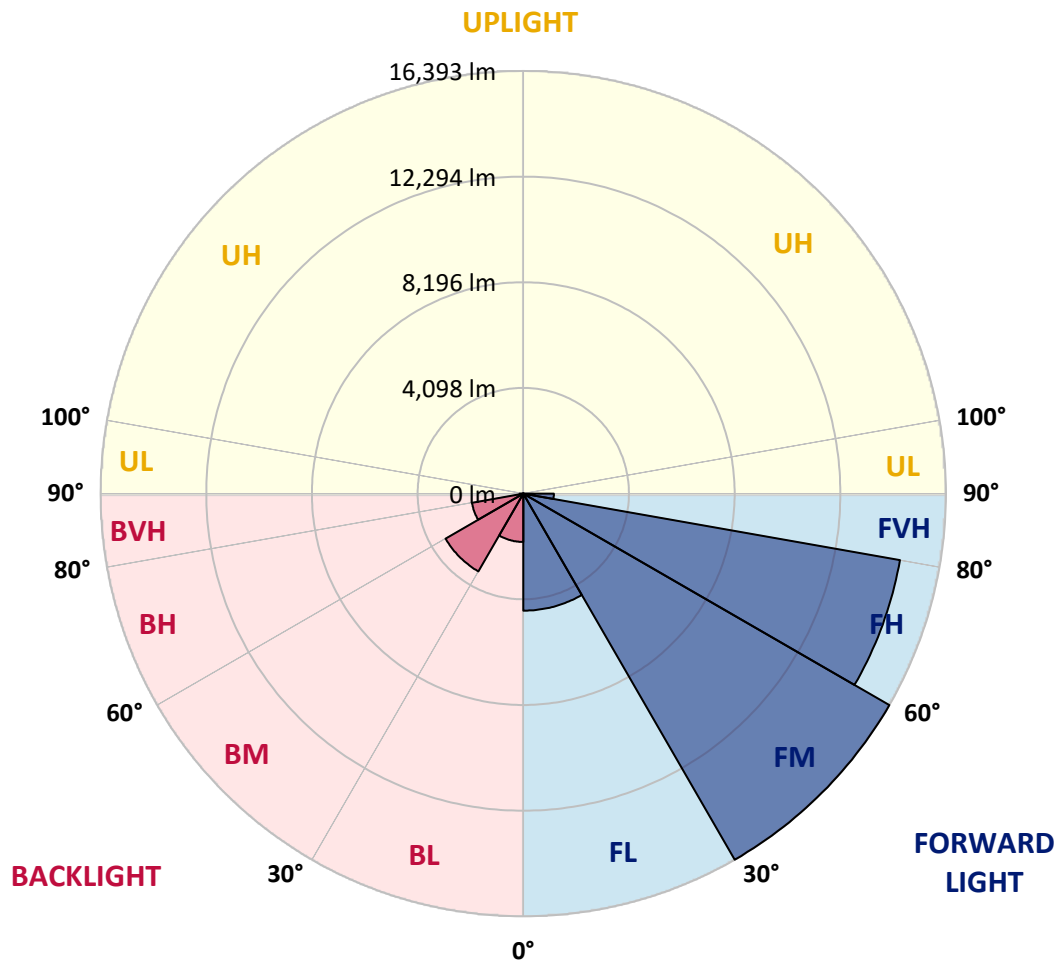
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4538.7	10.2			
FM	(30°-60°)	16392.6	36.9			
FH	(60°-80°)	14833.7	33.4			G5
FVH	(80°-90°)	1184.5	2.7			G5
BL	(0°-30°)	1874.6	4.2	B3/2500		
BM	(30°-60°)	3482.0	7.8	B3/5000		
BH	(60°-80°)	2022.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	136.7	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°	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9
2.5°	14978.3	14998.3	15126.6	15500.1	15756.7	15850.8	15916.4	15793.8	15674.0	15383.2	14944.1
5°	14932.7	15049.6	15383.2	16221.5	16883.0	17168.2	17253.7	16885.9	16278.5	15531.5	14633.3
7.5°	14060.1	14217.0	14730.2	16136.0	17302.2	17969.4	17881.0	17216.6	16121.7	14790.1	13535.5
10°	13025.1	13199.0	13817.8	15517.2	17019.9	17938.0	17938.0	17128.2	15674.0	14091.5	12645.9
12.5°	12203.9	12386.4	13093.5	14881.3	16432.5	17302.2	17447.6	16751.9	15351.8	13649.6	12061.3
15°	11933.0	12109.8	12871.1	14496.4	15810.9	16341.3	16389.7	16161.6	15195.0	13680.9	12035.7
17.5°	12269.5	12497.6	13267.5	14610.5	15240.6	15272.0	15309.1	15488.7	15212.1	14254.0	12554.6
20°	13241.8	13487.0	14291.1	14978.3	14741.6	14416.6	14436.5	14898.5	15414.6	15200.7	13795.0
22.5°	14644.7	14858.5	15682.6	15625.6	14530.6	13860.6	13720.8	14365.2	15713.9	16381.2	15115.2
25°	16158.8	16409.7	17356.3	16586.5	14590.5	13529.8	13441.4	14051.6	16024.7	17484.7	16640.6
27.5°	17892.4	18137.6	18884.7	17555.9	14904.2	13504.1	13398.6	14023.1	16304.2	18505.4	18097.7
30°	19181.2	19406.5	19914.0	18371.4	15289.1	13675.2	13544.1	14248.3	16543.7	19204.0	19517.7
32.5°	20193.5	20427.3	20703.9	18879.0	15796.6	13986.0	13743.6	14658.9	16857.4	19737.2	20569.8
35°	21248.5	21525.1	21505.1	19329.5	16270.0	14345.3	14108.6	15252.0	17350.6	20202.0	21904.3
37.5°	22585.8	22697.0	22554.4	19734.4	16837.4	14992.6	14861.4	16133.1	18052.1	20763.7	23464.0
40°	23943.0	24165.4	23432.6	20224.8	17527.4	16210.1	16195.8	17436.2	18884.7	21422.4	24975.2
42.5°	25106.4	25294.6	24253.8	20652.5	18362.9	17695.7	17804.0	19184.1	19976.8	22186.6	26189.9
45°	25981.8	26150.0	25012.3	21066.0	19463.5	19412.2	20050.9	21057.4	21354.0	22873.8	26902.8
47.5°	26726.0	26888.5	25539.8	21693.3	20823.6	21462.3	22574.4	23010.6	22531.6	23267.3	27701.1
50°	27353.3	27401.8	25901.9	22440.4	22511.6	23974.4	25052.2	25334.5	23695.0	23831.8	28394.0
52.5°	28006.2	27943.5	26526.4	23381.3	24336.5	26358.1	27142.3	27436.0	24809.8	24527.6	29403.4
55°	29469.0	29528.9	27926.4	24567.5	26181.4	28699.1	29731.3	29449.0	26044.5	25807.8	30686.5
57.5°	31236.9	31185.5	29896.7	26423.7	28060.4	30877.6	31647.5	31194.1	27692.6	27567.1	31986.8
60°	31924.0	31992.5	31544.8	28419.7	29913.8	32785.2	33572.1	32867.8	29668.6	29611.6	32967.6
62.5°	31234.0	31618.9	31921.2	30196.1	31493.5	34188.0	34969.3	34165.2	31730.1	32143.6	33654.8
65°	29859.6	29942.3	30971.7	31701.6	32254.8	34419.0	34826.7	34399.0	33452.4	34450.4	33623.5
67.5°	28074.7	28146.0	29352.1	32194.9	31273.9	31795.7	32080.9	31955.4	32919.2	35240.2	32075.2
70°	26375.3	26318.2	27592.8	30937.5	27225.0	26432.3	26668.9	26275.5	28405.4	33309.8	29038.4
72.5°	23067.7	23273.0	24641.6	27441.7	21556.4	20267.6	20783.7	19765.8	21847.3	28528.0	23569.5
75°	18069.2	18117.7	20401.6	23030.6	16261.4	14228.4	14927.0	14502.1	16734.7	23797.6	16275.7
77.5°	12511.9	12403.5	14858.5	17590.2	11596.6	10416.1	10427.5	10225.0	11685.0	17521.7	11057.6
80°	7946.8	7781.4	9301.2	10866.6	7969.6	8525.6	8246.2	8237.6	7607.5	10809.6	6686.5
82.5°	4294.2	4476.7	5876.7	6811.9	5717.0	6589.5	6039.2	5862.4	5220.9	6766.3	4277.1
85°	1956.0	2127.1	3133.7	4633.5	4342.7	4391.1	2934.1	3461.6	4319.8	5494.6	2284.0
87.5°	191.0	245.2	647.3	2187.0	1482.7	1169.1	436.3	841.2	1086.4	1953.2	182.5
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°	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9
2.5°	14764.4	14616.2	14111.5	13695.2	13253.2	12916.7	12477.6	12183.9	11981.5	11676.4	11639.3
5°	14085.8	13723.7	12845.5	11950.1	11177.4	10595.7	10005.5	9463.7	9144.4	9044.6	8916.3
7.5°	12942.4	12332.2	11203.1	10176.6	9289.8	8423.0	7755.8	7282.4	6965.9	6780.6	6558.2
10°	12001.5	11294.3	9919.9	8662.5	7932.5	7393.6	6806.2	6298.7	5908.1	5574.4	5392.0
12.5°	11368.4	10570.1	9024.6	8003.8	7439.2	6866.1	6178.9	5608.7	5032.7	4653.5	4490.9
15°	11177.4	10333.4	8748.0	7675.9	6866.1	6116.2	5346.3	4602.1	4031.8	3672.6	3552.8
17.5°	11645.0	10624.2	8745.2	7239.7	6193.2	5297.9	4311.3	3612.7	3028.2	2760.1	2674.6
20°	12517.6	11183.1	8770.8	6809.1	5463.2	4202.9	3136.5	2563.4	2284.0	2169.9	2127.1
22.5°	13735.1	12035.7	8847.8	6384.2	4664.9	3227.8	2349.5	2058.7	1958.9	1938.9	1930.4
25°	15234.9	13090.7	9107.3	6002.2	3991.9	2463.6	1964.6	1833.4	1776.4	1756.4	1753.6
27.5°	16615.0	14453.6	9421.0	5674.2	3341.8	2124.3	1776.4	1665.2	1608.2	1605.3	1611.0
30°	17861.0	15594.2	9683.3	5306.4	2848.5	1887.6	1653.8	1542.6	1488.4	1485.6	1502.7
32.5°	18938.9	16532.3	9877.2	4944.3	2574.8	1742.2	1542.6	1422.8	1377.2	1368.7	1377.2
35°	20090.8	17467.5	9788.8	4662.0	2418.0	1622.4	1459.9	1343.0	1288.8	1263.2	1263.2
37.5°	21405.3	18431.3	9637.7	4428.2	2346.7	1522.6	1388.6	1274.6	1220.4	1194.7	1191.9
40°	22839.5	19395.1	9429.5	4220.0	2275.4	1462.8	1340.1	1220.4	1154.8	1129.1	1123.4
42.5°	24105.6	20219.1	9258.4	4083.2	2158.5	1474.2	1297.4	1180.5	1097.8	1063.6	1060.7
45°	25206.2	21048.9	9227.1	4003.3	2061.5	1457.1	1286.0	1149.1	1052.2	1015.1	1009.4
47.5°	26067.3	21912.8	9406.7	3957.7	1956.0	1365.8	1360.1	1129.1	1012.2	972.3	966.6
50°	27116.6	23138.9	9817.3	3863.6	1859.1	1280.3	1437.1	1126.3	980.9	929.5	915.3
52.5°	28513.8	24735.7	10373.3	3695.4	1719.4	1200.4	1371.5	1126.3	943.8	892.5	875.4
55°	30626.7	26771.6	10917.9	3458.7	1522.6	1094.9	1237.5	1092.1	889.6	844.0	832.6
57.5°	32026.7	28260.0	11265.8	3130.8	1277.4	1017.9	1066.4	1037.9	835.5	787.0	787.0
60°	32098.0	28659.2	11100.4	2717.4	1123.4	946.7	926.7	1046.5	787.0	735.7	730.0
62.5°	31276.8	27681.2	10239.3	2346.7	1040.8	869.7	838.3	918.1	738.5	687.2	678.6
65°	29993.7	25186.2	8745.2	2169.9	995.1	801.2	755.6	752.8	687.2	638.7	627.3
67.5°	27635.6	22009.8	7185.5	2067.2	972.3	724.3	681.5	667.2	627.3	587.4	581.7
70°	24159.7	18434.2	5762.6	2024.5	960.9	644.4	610.2	593.1	558.9	527.5	524.7
72.5°	18796.3	14952.6	4756.1	1996.0	955.2	570.3	533.2	510.4	490.4	461.9	461.9
75°	13501.3	11000.6	3629.8	1799.2	883.9	490.4	450.5	436.3	407.7	384.9	390.6
77.5°	8511.4	7407.9	2389.5	1323.0	684.3	393.5	359.3	350.7	327.9	296.5	316.5
80°	5748.4	5209.5	1394.3	832.6	430.6	288.0	276.6	273.7	248.1	213.9	216.7
82.5°	3912.1	3838.0	724.3	473.3	248.1	168.2	162.5	168.2	139.7	114.1	114.1
85°	1528.3	2087.2	342.2	185.3	79.8	25.7	37.1	39.9	22.8	11.4	14.3
87.5°	28.5	213.9	8.6	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°	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9
2.5°	11582.3	11556.6	11599.4	11416.9	11454.0	11522.4	11556.6	11576.6	11858.9	11793.3	11972.9
5°	9036.0	9010.4	9175.7	9198.5	9284.1	9267.0	9349.7	9369.6	9472.3	9509.3	9760.3
7.5°	6572.4	6683.6	6871.8	6968.8	7114.2	7159.8	7117.0	7222.5	7008.7	7162.7	7208.3
10°	5280.8	5146.7	5066.9	5289.3	5317.8	5528.8	5443.3	5374.8	5500.3	5506.0	5625.8
12.5°	4396.8	4108.8	3917.8	3980.5	4049.0	4140.2	4154.5	4291.3	4382.6	4468.1	4539.4
15°	3447.3	3347.5	3173.6	3088.0	3185.0	3222.1	3310.5	3424.5	3521.5	3547.1	3644.1
17.5°	2646.1	2663.2	2634.7	2583.3	2643.2	2671.7	2677.4	2680.3	2706.0	2688.9	2831.4
20°	2130.0	2189.9	2261.1	2272.5	2292.5	2306.8	2281.1	2184.2	2187.0	2246.9	2292.5
22.5°	1927.5	1938.9	2018.8	2044.4	2107.2	2081.5	2007.4	1961.7	1956.0	1970.3	1993.1
25°	1767.9	1785.0	1842.0	1881.9	1930.4	1884.8	1830.6	1787.8	1782.1	1796.4	1819.2
27.5°	1625.3	1650.9	1702.3	1742.2	1787.8	1745.0	1693.7	1656.7	1653.8	1650.9	1665.2
30°	1511.2	1539.7	1576.8	1622.4	1653.8	1616.7	1568.3	1548.3	1545.4	1539.7	1545.4
32.5°	1397.2	1442.8	1479.9	1502.7	1534.0	1505.5	1468.5	1457.1	1437.1	1420.0	1411.4
35°	1268.9	1317.3	1374.4	1402.9	1434.2	1405.7	1380.1	1331.6	1297.4	1294.5	1300.2
37.5°	1194.7	1214.7	1260.3	1308.8	1340.1	1325.9	1277.4	1228.9	1220.4	1220.4	1226.1
40°	1129.1	1137.7	1157.7	1220.4	1277.4	1234.6	1174.8	1160.5	1160.5	1157.7	1160.5
42.5°	1063.6	1072.1	1072.1	1120.6	1211.8	1143.4	1097.8	1097.8	1097.8	1100.6	1109.2
45°	1003.7	1006.5	1003.7	1037.9	1123.4	1066.4	1035.1	1043.6	1049.3	1055.0	1060.7
47.5°	952.4	955.2	952.4	980.9	1023.6	1000.8	983.7	995.1	1006.5	1015.1	1020.8
50°	906.7	903.9	909.6	926.7	946.7	952.4	941.0	958.1	963.8	975.2	989.4
52.5°	866.8	864.0	869.7	878.2	906.7	906.7	906.7	921.0	932.4	943.8	963.8
55°	821.2	824.0	832.6	844.0	881.1	875.4	878.2	889.6	901.0	918.1	929.5
57.5°	778.4	784.1	795.5	812.6	849.7	846.9	849.7	855.4	869.7	878.2	889.6
60°	730.0	741.4	755.6	767.0	804.1	801.2	815.5	826.9	835.5	835.5	841.2
62.5°	681.5	698.6	712.8	721.4	761.3	764.2	784.1	792.7	798.4	792.7	801.2
65°	633.0	658.7	664.4	675.8	715.7	718.5	741.4	761.3	755.6	749.9	764.2
67.5°	584.5	615.9	613.0	627.3	667.2	672.9	692.9	727.1	715.7	710.0	721.4
70°	530.4	553.2	556.0	564.6	618.7	610.2	641.6	672.9	664.4	667.2	667.2
72.5°	470.5	490.4	490.4	507.5	564.6	550.3	576.0	610.2	610.2	607.3	607.3
75°	399.2	410.6	422.0	447.7	507.5	490.4	507.5	538.9	544.6	538.9	538.9
77.5°	322.2	339.3	345.0	379.2	422.0	419.2	436.3	450.5	461.9	456.2	456.2
80°	228.1	245.2	268.0	305.1	330.8	339.3	347.9	359.3	365.0	365.0	370.7
82.5°	128.3	154.0	173.9	211.0	222.4	265.2	262.3	270.9	262.3	231.0	256.6
85°	28.5	54.2	77.0	96.9	111.2	154.0	162.5	182.5	151.1	139.7	139.7
87.5°	0.0	0.0	0.0	0.0	0.0	22.8	45.6	62.7	54.2	45.6	45.6
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: P457946

CATALOG NUMBER: GALN-SA9B-750-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9	13891.9
2.5°	12124.1	12372.1	12671.5	13187.6	13549.8	13940.4	14333.9	14753.0	14864.2	14978.3
5°	9828.7	10316.3	10581.5	11274.4	12001.5	12925.3	13680.9	14507.8	14852.8	14932.7
7.5°	7445.0	7775.7	8471.4	9172.9	10073.9	11043.4	12201.1	13489.9	13891.9	14060.1
10°	5902.4	6352.9	6963.1	7715.8	8505.7	9549.3	10855.2	12360.7	12931.0	13025.1
12.5°	5024.1	5526.0	6190.3	6985.9	7732.9	8519.9	9837.3	11391.3	12001.5	12203.9
15°	4017.6	4624.9	5392.0	6230.3	7042.9	7904.0	9238.5	10992.1	11696.4	11933.0
17.5°	3156.5	3646.9	4476.7	5386.3	6350.0	7439.2	9113.0	11183.1	12049.9	12269.5
20°	2415.1	2765.8	3464.4	4425.3	5554.5	6980.2	9144.4	11904.5	12942.4	13241.8
22.5°	2087.2	2266.8	2691.7	3607.0	4870.2	6581.0	9272.7	12893.9	14145.7	14644.7
25°	1890.5	1984.6	2224.1	2822.9	4217.2	6193.2	9566.4	14225.5	15828.0	16158.8
27.5°	1722.2	1790.7	1938.9	2369.5	3624.1	5833.9	9908.5	15702.5	17399.1	17892.4
30°	1562.6	1653.8	1793.5	2104.3	3244.9	5506.0	10339.1	16900.1	18722.2	19181.2
32.5°	1439.9	1531.2	1659.5	1919.0	2922.7	5161.0	10595.7	17952.3	19802.8	20193.5
35°	1340.1	1417.1	1551.2	1770.7	2677.4	4898.7	10544.4	18787.7	20849.3	21248.5
37.5°	1268.9	1334.4	1468.5	1631.0	2492.1	4624.9	10518.7	19891.2	22123.8	22585.8
40°	1203.3	1271.7	1394.3	1539.7	2306.8	4302.7	10533.0	20986.1	23481.1	23943.0
42.5°	1152.0	1228.9	1328.7	1514.1	2115.7	4043.3	10533.0	21938.5	24661.6	25106.4
45°	1109.2	1191.9	1288.8	1511.2	1964.6	3846.5	10461.7	22756.9	25602.5	25981.8
47.5°	1072.1	1163.4	1303.1	1459.9	1927.5	3703.9	10399.0	23412.7	26369.6	26726.0
50°	1046.5	1154.8	1385.8	1400.0	1938.9	3661.2	10701.2	24239.6	27045.3	27353.3
52.5°	1026.5	1157.7	1382.9	1311.6	1919.0	3689.7	11331.4	25531.2	27983.4	28006.2
55°	986.6	1154.8	1311.6	1211.8	1836.3	3738.2	12141.2	27407.5	29451.9	29469.0
57.5°	946.7	1123.4	1217.5	1126.3	1668.1	3738.2	13116.3	29183.9	31222.6	31236.9
60°	906.7	1169.1	1069.3	1052.2	1448.5	3669.7	14145.7	29965.1	31778.6	31924.0
62.5°	866.8	1177.6	955.2	986.6	1288.8	3504.3	14912.7	29101.2	31025.9	31234.0
65°	821.2	949.5	881.1	918.1	1206.1	3227.8	14670.3	27518.7	29611.6	29859.6
67.5°	767.0	804.1	801.2	846.9	1177.6	2820.0	13392.9	25517.0	28088.9	28074.7
70°	701.4	721.4	730.0	778.4	1123.4	2503.5	11160.3	22919.4	26055.9	26375.3
72.5°	633.0	650.1	658.7	701.4	1069.3	2323.9	8662.5	19340.9	22568.7	23067.7
75°	558.9	570.3	581.7	618.7	1012.2	2058.7	6170.4	14764.4	17285.1	18069.2
77.5°	481.9	481.9	496.1	533.2	852.6	1699.4	4140.2	10356.2	11710.6	12511.9
80°	390.6	393.5	387.8	427.7	627.3	1163.4	2352.4	6917.4	7792.8	7946.8
82.5°	299.4	290.8	293.7	313.7	467.6	792.7	1254.6	4297.0	4379.7	4294.2
85°	188.2	188.2	182.5	205.3	299.4	413.4	684.3	2631.8	2055.8	1956.0
87.5°	77.0	62.7	71.3	82.7	142.6	168.2	268.0	541.8	208.2	191.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)