

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: P529822

Luminaire Tested: **GALN-SA5A-730-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-730-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15533 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

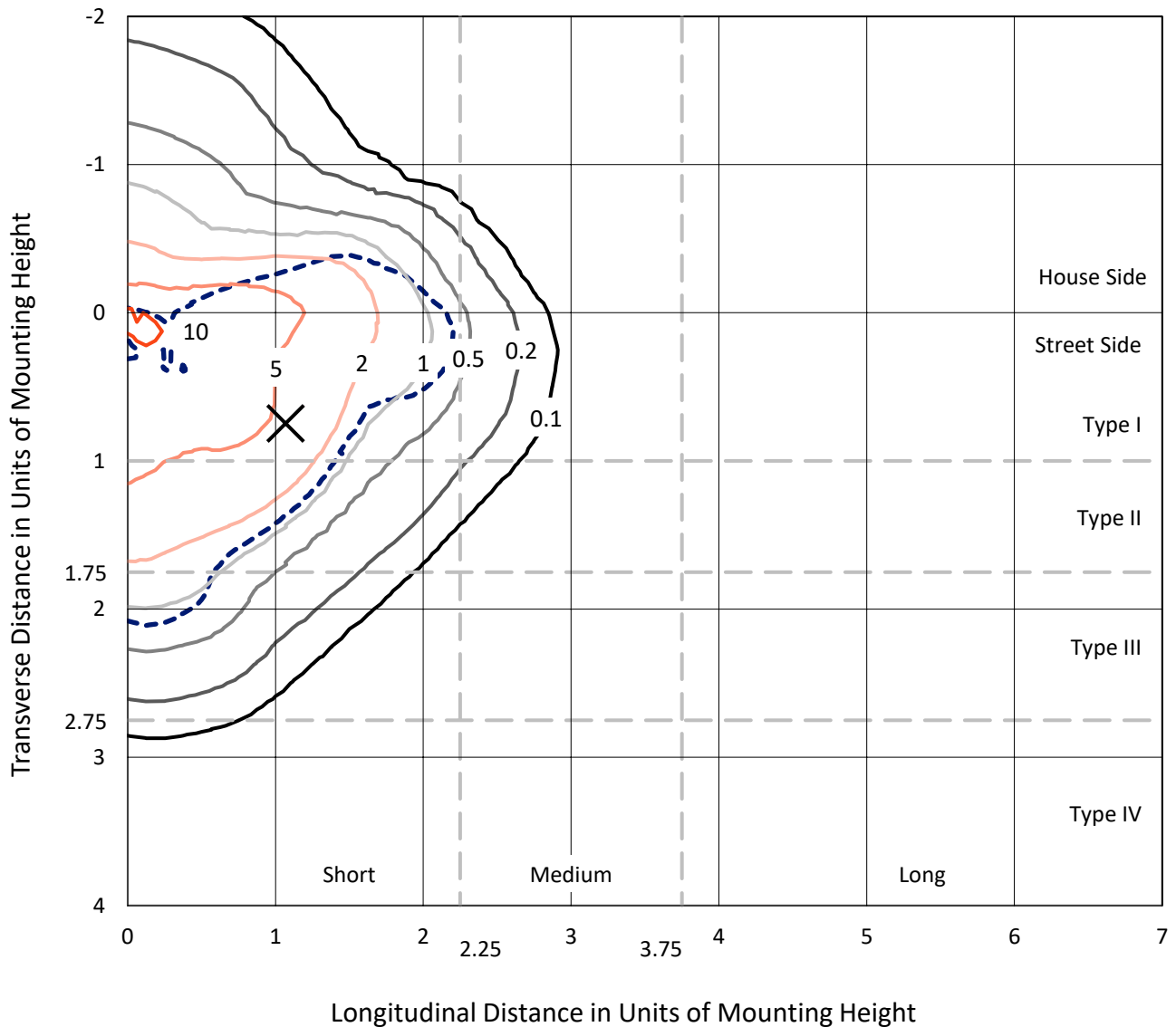
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

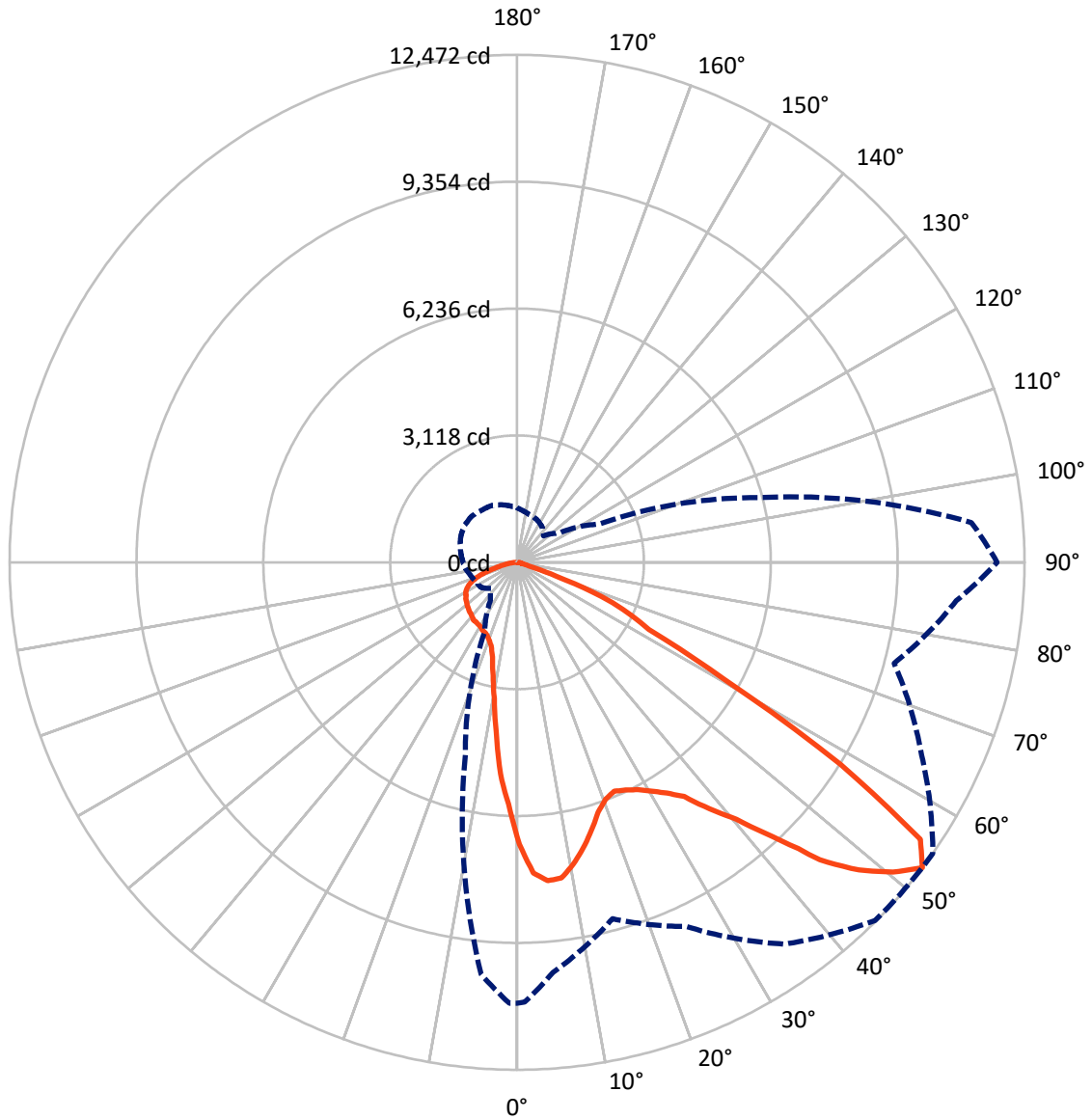
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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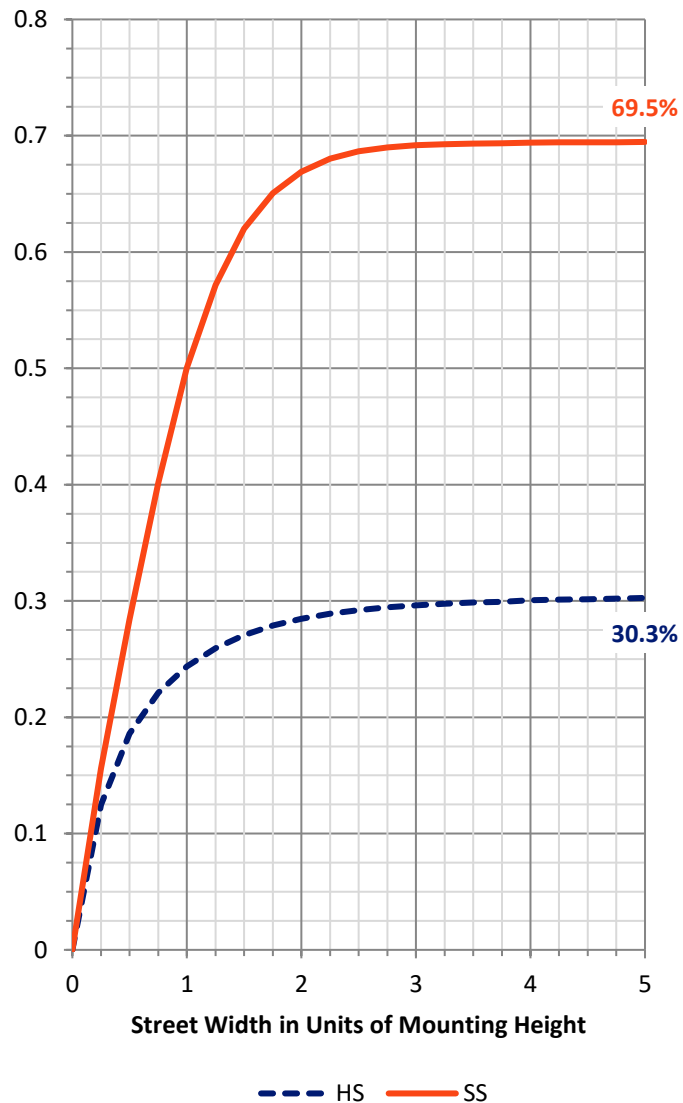
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4738.4	0.0	4738.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	10794.6	0.0	10794.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	15533.0	0.0	15533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.4	3.4
10°-20°	1141.4	7.3
20°-30°	1730.7	11.1
30°-40°	2500.6	16.1
40°-50°	3341.4	21.5
50°-60°	3729.8	24.0
60°-70°	2045.9	13.2
70°-80°	442.3	2.8
80°-90°	71.6	0.5
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°	15533.0	100.0
0°-180°	15533.0	100.0

Coefficient of Utilization



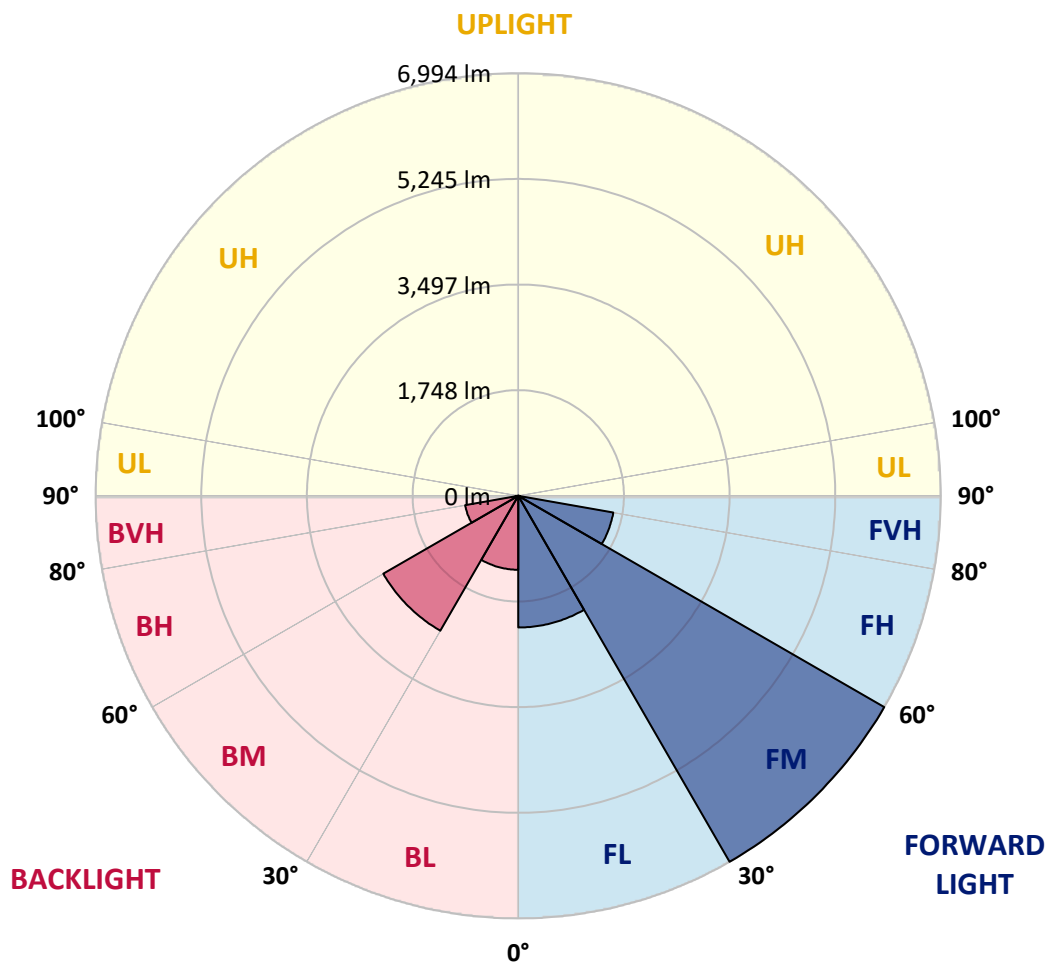
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2178.0	14.0			
FM (30°-60°)	6993.7	45.0			
FH (60°-80°)	1596.4	10.3			G1/1800
FVH (80°-90°)	26.5	0.2			G1/100
BL (0°-30°)	1223.4	7.9	B3/2500		
BM (30°-60°)	2578.1	16.6	B3/5000		
BH (60°-80°)	891.9	5.7	B2/1000		G2/1000
BVH (80°-90°)	45.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9
2.5°	7271.4	7230.6	7266.9	7439.2	7539.0	7607.1	7650.2	7643.4	7480.1	7321.3	7321.3
5°	7058.2	7006.0	7080.9	7471.0	7863.4	7897.4	7954.1	7861.1	7620.7	7330.4	6967.5
7.5°	6441.3	6479.8	6604.6	7117.2	7627.5	7883.8	7951.8	7833.9	7443.8	6901.7	6368.7
10°	5908.3	5999.0	6287.1	6840.5	7310.0	7643.4	7718.2	7552.6	7244.2	6579.6	6103.3
12.5°	5724.6	5667.9	5987.7	6541.1	6990.2	7169.3	7203.4	7214.7	7006.0	6416.3	5835.7
15°	5701.9	5738.2	5987.7	6407.3	6684.0	6693.0	6749.7	6838.2	6865.4	6527.5	5960.5
17.5°	6028.5	5985.4	6241.7	6575.1	6443.6	6312.0	6325.6	6452.6	6677.2	6622.7	6352.8
20°	6511.6	6609.1	6811.0	6777.0	6423.1	6089.7	6092.0	6212.2	6654.5	7017.4	6899.4
22.5°	7314.5	7409.7	7559.4	7148.9	6423.1	6024.0	5946.9	6110.2	6799.6	7486.9	7516.3
25°	8047.1	8221.7	8262.5	7779.4	6745.2	6085.2	6035.3	6196.3	6944.8	7945.0	8224.0
27.5°	8713.9	8777.4	8956.6	8185.4	6924.4	6126.0	6121.5	6327.9	7128.5	8174.1	8856.8
30°	9240.1	9233.3	9335.3	8441.7	7210.2	6355.1	6135.1	6525.2	7368.9	8552.8	9441.9
32.5°	9598.4	9675.5	9891.0	8797.8	7330.4	6572.8	6400.5	6756.5	7661.5	8732.0	9854.7
35°	10228.9	10362.8	10090.6	8995.1	7711.4	6788.3	6586.4	7071.8	7806.7	8927.1	10360.5
37.5°	10823.2	10721.1	10444.4	9101.7	7958.6	7187.5	6999.2	7681.9	8258.0	9351.2	10696.2
40°	11204.2	11201.9	10709.8	9187.9	8133.3	7797.6	7786.2	8301.1	8811.4	9618.8	11072.7
42.5°	11369.8	11528.5	10818.6	9178.8	8500.7	8537.0	8766.0	9226.5	9203.8	9673.3	11063.6
44°	11596.6	11691.8	11006.9	9199.2	8745.6	9035.9	9575.7	9868.3	9546.3	9643.8	11052.3
45°	11587.5	11594.3	10739.3	9226.5	8954.3	9453.3	9936.4	10430.8	9847.9	9580.3	11201.9
47.5°	11322.1	11245.0	10512.5	9024.6	9605.2	10555.5	11002.4	11301.7	10219.9	9444.2	11016.0
50°	10798.2	10709.8	9961.3	8938.4	9741.3	11240.5	11857.4	11966.3	10557.8	9310.4	10832.2
52.5°	10834.5	10809.6	10117.8	9067.7	9877.4	11456.0	12444.8	12472.1	10941.1	9591.6	10834.5
55°	11483.2	11397.0	10566.9	9228.7	9777.6	11204.2	12070.6	12023.0	10811.8	9421.5	11034.1
57.5°	10507.9	10564.6	9945.4	8591.4	8557.4	9108.5	9489.6	9371.6	9022.3	8503.0	10265.2
60°	8478.0	8639.0	8698.0	7185.2	6457.2	6173.7	6060.3	5851.6	5910.6	6985.6	9017.8
62.5°	7271.4	7262.3	7632.0	6513.9	4229.9	3638.0	3583.5	3631.2	4311.6	6876.8	8831.8
65°	5765.4	5919.6	6033.0	5520.5	3347.7	2701.3	2699.0	3000.6	3731.0	5747.3	7130.8
67.5°	3660.6	3862.5	4003.1	3531.4	2238.6	1923.3	1871.1	2234.0	2585.6	3769.5	4293.4
70°	2063.9	2159.2	2222.7	2036.7	1424.3	997.9	939.0	1025.2	1562.7	2440.4	2544.8
72.5°	796.1	839.2	925.4	932.2	537.5	322.1	260.8	313.0	657.7	966.2	920.8
75°	122.5	131.5	186.0	222.3	154.2	117.9	124.7	129.3	183.7	249.5	208.7
77.5°	59.0	59.0	56.7	65.8	77.1	83.9	90.7	99.8	108.9	120.2	115.7
80°	38.6	38.6	38.6	45.4	56.7	68.0	77.1	81.7	86.2	95.3	90.7
82.5°	24.9	24.9	24.9	34.0	45.4	56.7	61.2	72.6	81.7	95.3	88.5
85°	13.6	13.6	13.6	22.7	34.0	47.6	45.4	36.3	20.4	2.3	4.5
87.5°	4.5	4.5	4.5	4.5	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°	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9
2.5°	7130.8	7026.4	7017.4	6804.2	6613.7	6520.7	6445.8	6237.2	6282.5	6162.3	6160.0
5°	6786.0	6572.8	6228.1	5944.6	5661.1	5604.4	5357.2	5141.7	5148.5	4994.3	5021.5
7.5°	6166.9	6019.4	5599.8	5155.3	4778.8	4511.2	4277.6	4136.9	3957.8	3896.5	3864.8
10°	5774.5	5593.0	5121.3	4563.3	4141.5	3998.6	3774.0	3649.3	3465.6	3374.9	3311.4
12.5°	5602.1	5336.7	4747.0	4180.0	3898.8	3751.4	3560.9	3334.0	3116.3	3032.4	2916.7
15°	5620.2	5302.7	4638.2	4025.8	3687.9	3402.1	3232.0	2980.2	2758.0	2610.5	2526.6
17.5°	5894.7	5509.1	4688.1	3907.9	3422.5	3064.1	2730.7	2458.6	2281.7	2170.5	2143.3
20°	6543.3	6019.4	4772.0	3717.3	3157.1	2710.3	2299.8	2016.3	1880.2	1878.0	1880.2
22.5°	7083.1	6563.8	4942.1	3603.9	2891.8	2256.7	1848.5	1757.7	1730.5	1787.2	1794.0
25°	7811.2	7176.1	5234.7	3545.0	2646.8	1923.3	1671.6	1637.5	1635.3	1707.8	1710.1
27.5°	8557.4	7711.4	5409.3	3372.6	2397.3	1750.9	1565.0	1558.2	1594.4	1671.6	1664.8
30°	9065.4	8160.5	5724.6	3166.2	2102.5	1599.0	1521.9	1530.9	1580.8	1639.8	1648.9
32.5°	9657.4	8602.7	5806.2	3052.8	1921.0	1472.0	1417.5	1437.9	1501.5	1594.4	1644.3
35°	10335.5	8915.7	5931.0	2898.6	1853.0	1374.4	1347.2	1369.9	1447.0	1508.3	1562.7
37.5°	10836.8	9469.1	5953.7	2778.4	1778.2	1320.0	1276.9	1351.8	1397.1	1483.3	1510.5
40°	11208.7	9870.6	6012.6	2703.5	1719.2	1249.7	1249.7	1299.6	1360.8	1440.2	1494.7
42.5°	11446.9	10163.2	6055.7	2635.5	1605.8	1229.3	1217.9	1267.8	1349.5	1426.6	1451.6
44°	11592.0	10287.9	6012.6	2572.0	1574.0	1204.3	1204.3	1247.4	1310.9	1401.7	1431.1
45°	11628.3	10444.4	5917.4	2569.7	1535.5	1174.9	1170.3	1252.0	1295.1	1406.2	1424.3
47.5°	11769.0	10637.2	5928.7	2497.1	1442.5	1104.5	1183.9	1220.2	1258.8	1356.3	1417.5
50°	11764.4	10757.4	5903.8	2390.5	1374.4	1025.2	1156.7	1197.5	1236.1	1335.9	1360.8
52.5°	11796.2	11206.5	6132.8	2220.4	1252.0	923.1	1066.0	1156.7	1204.3	1288.3	1340.4
55°	11780.3	11462.8	6359.6	2093.4	1079.6	861.9	988.9	1095.5	1163.5	1252.0	1276.9
57.5°	10759.7	10131.4	5885.6	1855.3	893.6	789.3	880.0	1032.0	1118.2	1208.9	1240.6
60°	8791.0	7808.9	4853.6	1365.4	734.9	725.8	818.8	1011.6	1047.8	1127.2	1181.7
62.5°	8124.2	6849.5	3848.9	1043.3	628.3	664.5	755.3	914.0	970.7	1068.3	1118.2
65°	6357.4	4549.7	2383.7	705.4	553.4	596.5	682.7	800.6	893.6	984.3	1043.3
67.5°	3765.0	2485.8	1179.4	494.4	483.1	528.5	616.9	705.4	812.0	911.8	941.2
70°	2050.3	1222.5	503.5	376.5	410.5	451.3	537.5	598.8	700.8	777.9	827.8
72.5°	657.7	372.0	251.8	279.0	313.0	360.6	412.8	487.6	560.2	605.6	646.4
75°	158.8	156.5	179.2	195.1	226.8	263.1	306.2	344.7	401.4	444.5	480.8
77.5°	111.1	120.2	138.4	161.0	172.4	186.0	213.2	242.7	267.6	299.4	322.1
80°	86.2	93.0	106.6	117.9	129.3	140.6	154.2	165.6	181.4	201.9	213.2
82.5°	81.7	86.2	99.8	106.6	102.1	99.8	108.9	113.4	115.7	122.5	129.3
85°	6.8	0.0	4.5	15.9	38.6	56.7	61.2	61.2	59.0	63.5	63.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	9.1	6.8
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°	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9
2.5°	6132.8	6055.7	6085.2	6121.5	6069.3	5949.1	5980.9	5967.3	6089.7	6080.7	6203.1
5°	5141.7	5021.5	5035.1	5212.0	5155.3	5216.5	5094.1	5078.2	5100.9	5112.2	5132.6
7.5°	3935.1	3919.2	4055.3	4205.0	4275.3	4202.7	4082.5	4055.3	4030.3	3980.4	4093.8
10°	3211.6	3216.1	3207.0	3320.4	3399.8	3383.9	3311.4	3302.3	3254.7	3236.5	3300.0
12.5°	2866.8	2805.6	2776.1	2739.8	2801.1	2841.9	2810.1	2787.4	2789.7	2812.4	2821.5
15°	2533.4	2494.9	2431.4	2390.5	2420.0	2399.6	2388.3	2433.6	2422.3	2417.8	2472.2
17.5°	2159.2	2190.9	2186.4	2141.0	2179.6	2163.7	2161.5	2129.7	2086.6	2054.9	2073.0
20°	1912.0	1970.9	2016.3	2018.6	2039.0	2036.7	2002.7	1905.2	1873.4	1866.6	1871.1
22.5°	1823.5	1855.3	1909.7	1986.8	1986.8	1950.5	1909.7	1796.3	1766.8	1735.1	1721.5
25°	1753.2	1814.4	1884.8	1893.8	1930.1	1896.1	1830.3	1773.6	1712.4	1669.3	1669.3
27.5°	1716.9	1785.0	1837.1	1853.0	1902.9	1875.7	1807.6	1735.1	1662.5	1660.2	1621.7
30°	1701.0	1764.5	1798.6	1837.1	1859.8	1816.7	1796.3	1719.2	1646.6	1628.5	1565.0
32.5°	1653.4	1744.1	1807.6	1798.6	1816.7	1798.6	1769.1	1705.6	1623.9	1583.1	1576.3
35°	1599.0	1689.7	1757.7	1805.4	1816.7	1778.2	1760.0	1673.8	1562.7	1542.3	1472.0
37.5°	1569.5	1623.9	1707.8	1785.0	1800.8	1780.4	1719.2	1630.7	1519.6	1496.9	1435.7
40°	1533.2	1603.5	1669.3	1732.8	1780.4	1730.5	1660.2	1574.0	1524.1	1456.1	1437.9
42.5°	1506.0	1585.4	1639.8	1710.1	1764.5	1698.8	1617.1	1558.2	1487.8	1442.5	1390.3
44°	1496.9	1569.5	1605.8	1692.0	1737.3	1687.4	1619.4	1558.2	1476.5	1435.7	1390.3
45°	1465.2	1565.0	1603.5	1680.6	1719.2	1678.4	1592.2	1530.9	1472.0	1422.1	1374.4
47.5°	1433.4	1501.5	1567.2	1628.5	1655.7	1642.1	1569.5	1494.7	1424.3	1394.9	1349.5
50°	1424.3	1492.4	1553.6	1610.3	1642.1	1614.9	1549.1	1476.5	1394.9	1347.2	1308.7
52.5°	1379.0	1462.9	1530.9	1549.1	1589.9	1574.0	1524.1	1444.8	1367.6	1326.8	1295.1
55°	1313.2	1401.7	1494.7	1517.3	1576.3	1551.4	1476.5	1401.7	1335.9	1274.6	1233.8
57.5°	1288.3	1374.4	1465.2	1494.7	1530.9	1490.1	1472.0	1392.6	1288.3	1256.5	1193.0
60°	1224.8	1333.6	1408.5	1476.5	1478.8	1467.4	1435.7	1345.0	1258.8	1199.8	1154.4
62.5°	1174.9	1276.9	1335.9	1399.4	1437.9	1406.2	1374.4	1290.5	1197.5	1131.8	1079.6
65°	1102.3	1195.3	1245.2	1283.7	1326.8	1322.3	1267.8	1206.6	1109.1	1056.9	1007.0
67.5°	991.1	1072.8	1140.8	1177.1	1204.3	1197.5	1156.7	1113.6	1013.8	961.7	925.4
70°	857.3	941.2	984.3	1004.8	1032.0	1045.6	1013.8	993.4	905.0	836.9	802.9
72.5°	689.5	743.9	807.4	825.6	836.9	846.0	846.0	827.8	737.1	709.9	650.9
75°	508.0	551.1	598.8	598.8	619.2	621.4	626.0	614.6	546.6	510.3	496.7
77.5°	344.7	376.5	415.1	430.9	444.5	442.3	440.0	408.3	372.0	356.1	342.5
80°	224.5	256.3	274.4	294.8	308.5	306.2	310.7	288.0	272.2	245.0	249.5
82.5°	133.8	158.8	176.9	201.9	201.9	208.7	208.7	201.9	186.0	172.4	172.4
85°	63.5	83.9	95.3	111.1	120.2	122.5	108.9	93.0	77.1	70.3	77.1
87.5°	11.3	15.9	22.7	20.4	24.9	22.7	22.7	22.7	22.7	18.1	20.4
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: P529822

CATALOG NUMBER: GALN-SA5A-730-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9	6928.9
2.5°	6157.8	6271.2	6350.6	6482.1	6708.9	6890.4	7076.3	7214.7	7230.6	7271.4
5°	5207.5	5268.7	5470.6	5733.7	5919.6	6225.8	6423.1	6781.5	6915.3	7058.2
7.5°	4066.6	4166.4	4436.3	4613.2	5021.5	5404.8	5801.7	6244.0	6420.9	6441.3
10°	3429.3	3574.5	3758.2	4041.7	4264.0	4690.3	5184.8	5677.0	5874.3	5908.3
12.5°	3012.0	3198.0	3442.9	3647.0	3860.2	4232.2	4706.2	5314.1	5570.4	5724.6
15°	2610.5	2803.3	3073.2	3356.7	3545.0	3989.5	4547.5	5232.4	5565.8	5701.9
17.5°	2197.7	2376.9	2599.2	2905.4	3284.1	3783.1	4522.5	5504.6	5869.7	6028.5
20°	1843.9	1943.7	2202.3	2517.5	2991.6	3572.2	4531.6	5906.0	6441.3	6511.6
22.5°	1705.6	1728.3	1830.3	2120.6	2640.0	3356.7	4692.6	6475.3	7083.1	7314.5
25°	1599.0	1594.4	1621.7	1816.7	2383.7	3272.8	4851.4	6999.2	7795.3	8047.1
27.5°	1540.0	1494.7	1496.9	1680.6	2202.3	3136.7	5055.5	7600.3	8602.7	8713.9
30°	1510.5	1501.5	1474.2	1549.1	2005.0	2932.6	5089.5	8192.2	9079.0	9240.1
32.5°	1492.4	1403.9	1369.9	1397.1	1819.0	2710.3	5216.5	8582.3	9668.7	9598.4
35°	1401.7	1322.3	1299.6	1326.8	1687.4	2585.6	5132.6	8922.5	10111.0	10228.9
37.5°	1367.6	1297.3	1252.0	1229.3	1565.0	2481.3	5089.5	9446.5	10539.7	10823.2
40°	1335.9	1261.0	1206.6	1183.9	1469.7	2342.9	5075.9	9850.2	11034.1	11204.2
42.5°	1299.6	1252.0	1190.7	1149.9	1354.0	2204.6	4919.4	9974.9	11186.1	11369.8
44°	1288.3	1215.7	1152.2	1138.6	1308.7	2134.2	4887.7	10088.3	11317.6	11596.6
45°	1276.9	1208.9	1136.3	1118.2	1292.8	2095.7	4844.6	10115.5	11535.3	11587.5
47.5°	1245.2	1202.1	1131.8	1081.9	1258.8	2011.8	4715.3	9961.3	11313.1	11322.1
50°	1220.2	1170.3	1097.7	1000.2	1213.4	1941.5	4774.3	9904.6	10777.8	10798.2
52.5°	1193.0	1118.2	1077.3	909.5	1138.6	1882.5	4899.0	10160.9	10839.1	10834.5
55°	1161.2	1079.6	979.8	832.4	1013.8	1807.6	5200.7	10666.7	11406.1	11483.2
57.5°	1111.3	1041.0	898.2	764.3	870.9	1664.8	5103.1	9698.2	10494.3	10507.9
60°	1045.6	979.8	814.2	712.2	714.4	1313.2	4563.3	7557.2	8280.7	8478.0
62.5°	982.1	945.8	743.9	637.3	607.8	1045.6	3858.0	6280.3	7108.1	7271.4
65°	907.2	818.8	682.7	580.6	521.7	732.6	2733.0	4692.6	5545.4	5765.4
67.5°	812.0	716.7	601.0	510.3	446.8	489.9	1410.7	2667.2	3531.4	3660.6
70°	709.9	621.4	505.8	430.9	360.6	337.9	621.4	1272.4	1930.1	2063.9
72.5°	582.9	501.2	403.7	340.2	269.9	233.6	208.7	340.2	685.0	796.1
75°	421.9	365.2	303.9	242.7	190.5	149.7	122.5	102.1	113.4	122.5
77.5°	310.7	265.4	224.5	172.4	133.8	106.6	83.9	63.5	61.2	59.0
80°	242.7	215.5	179.2	138.4	104.3	79.4	59.0	43.1	38.6	38.6
82.5°	190.5	176.9	147.4	113.4	86.2	63.5	43.1	29.5	24.9	24.9
85°	72.6	72.6	106.6	93.0	65.8	45.4	29.5	15.9	13.6	13.6
87.5°	18.1	18.1	18.1	18.1	15.9	13.6	13.6	6.8	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)