

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: P457192

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457192
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-SA8C-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 44566 lumens
Efficiency: N/A
Efficacy: 103.9 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

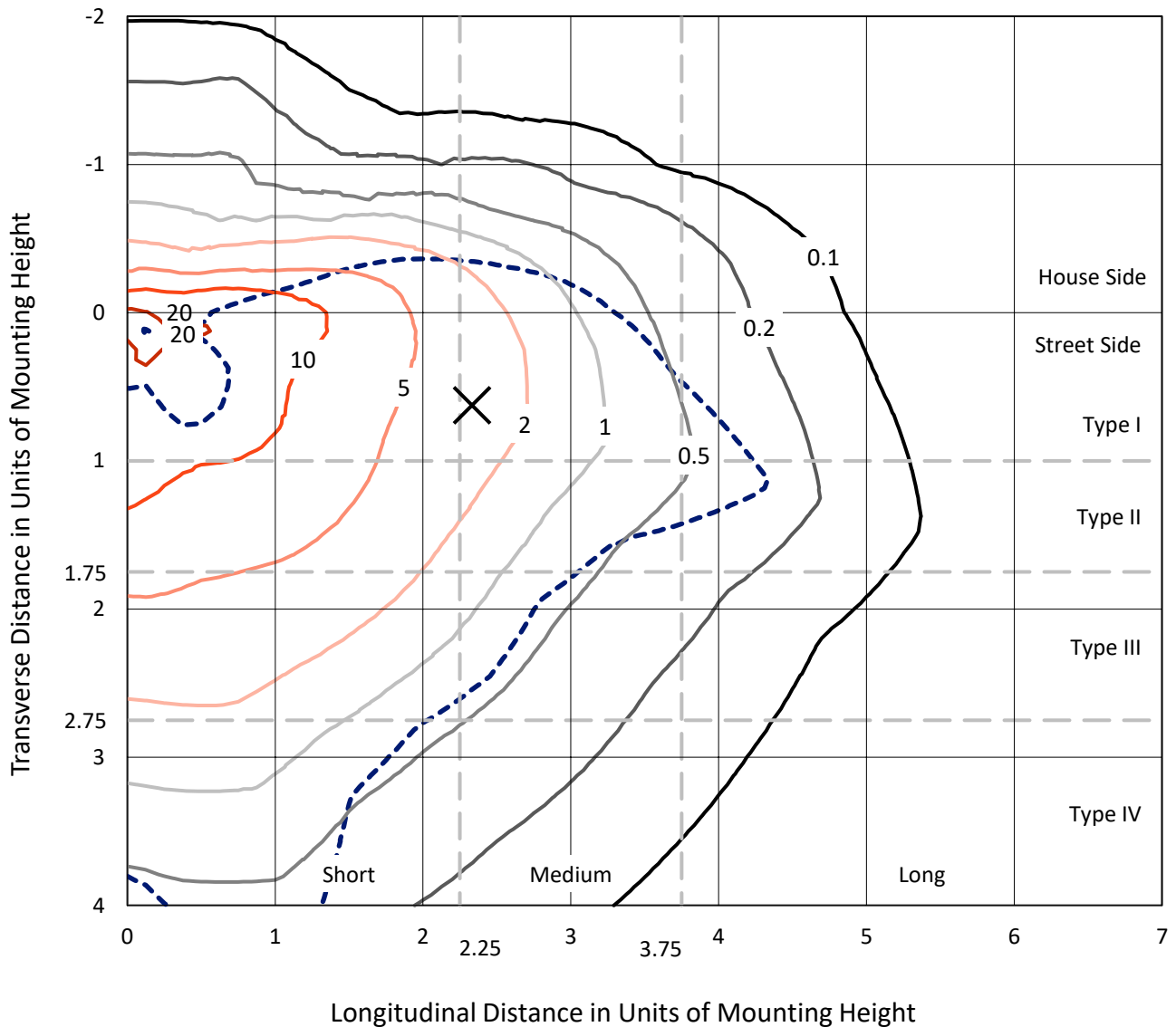
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457192
 CATALOG NUMBER: GALN-SA8C-730-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

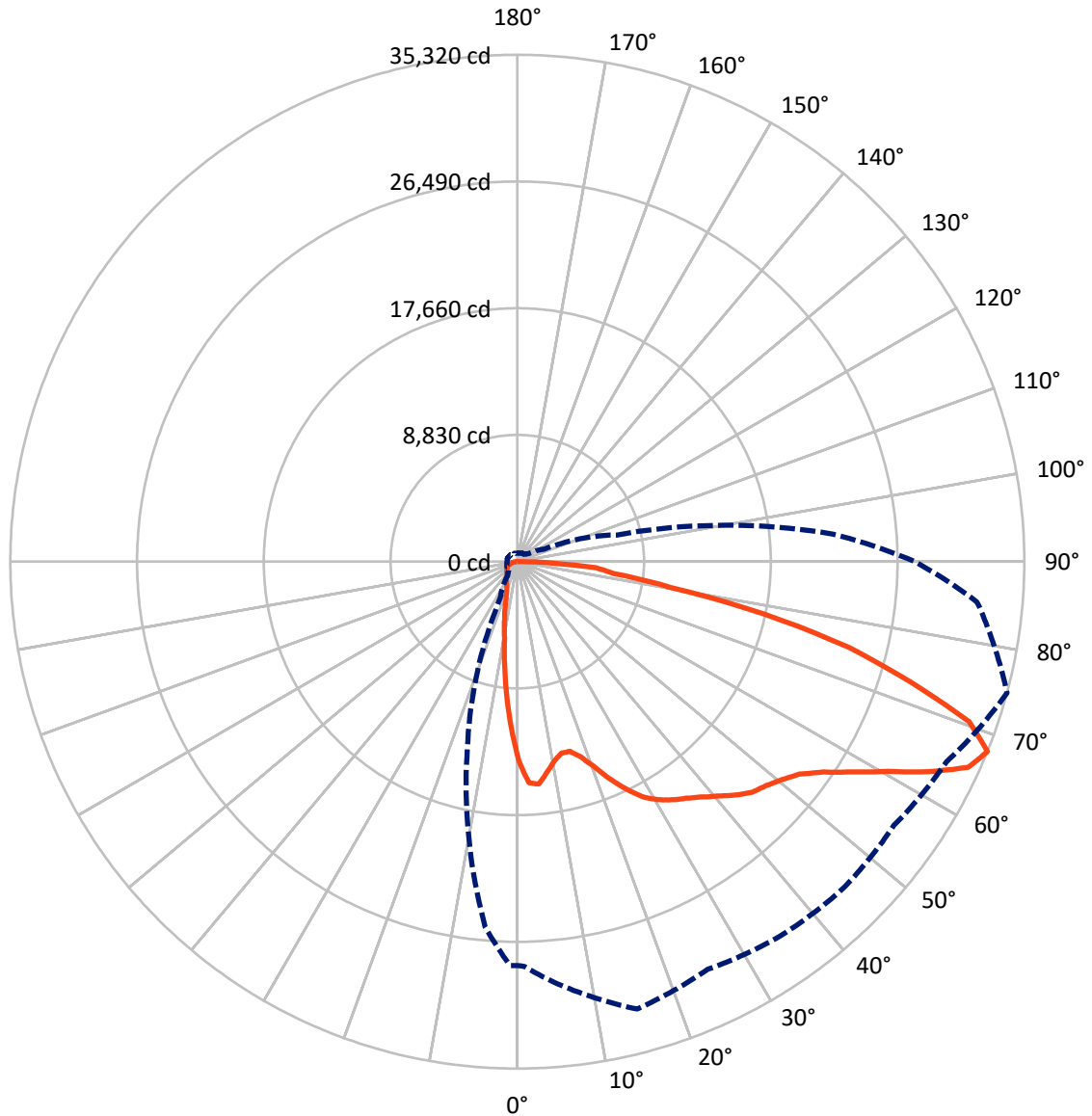
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P457192
CATALOG NUMBER: GALN-SA8C-730-U-SLL

Luminous Intensity Polar Plot



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



REPORT NUMBER: P457192
 CATALOG NUMBER: GALN-SA8C-730-U-SLL

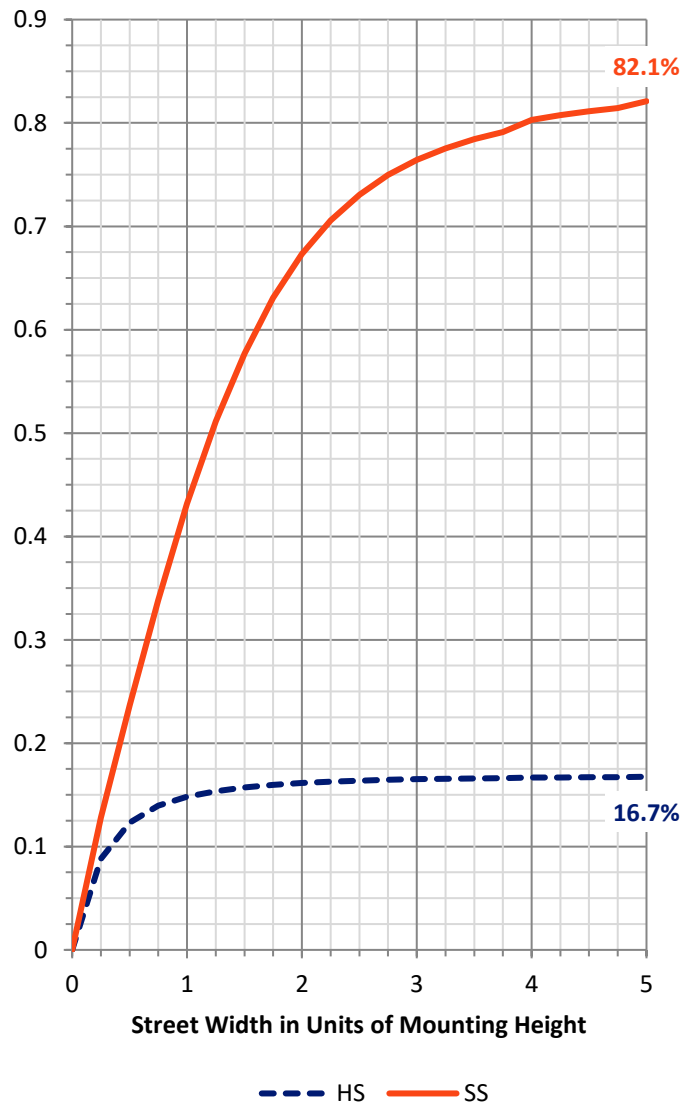
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7532.6	0.0	7532.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	37033.4	0.0	37033.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	44566.0	0.0	44566.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1056.1	2.4
10°-20°	2202.4	4.9
20°-30°	3169.3	7.1
30°-40°	4564.7	10.2
40°-50°	6412.2	14.4
50°-60°	8942.8	20.1
60°-70°	10632.4	23.9
70°-80°	6261.9	14.1
80°-90°	1324.2	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°	44566.0	100.0
0°-180°	44566.0	100.0



REPORT NUMBER: P457192

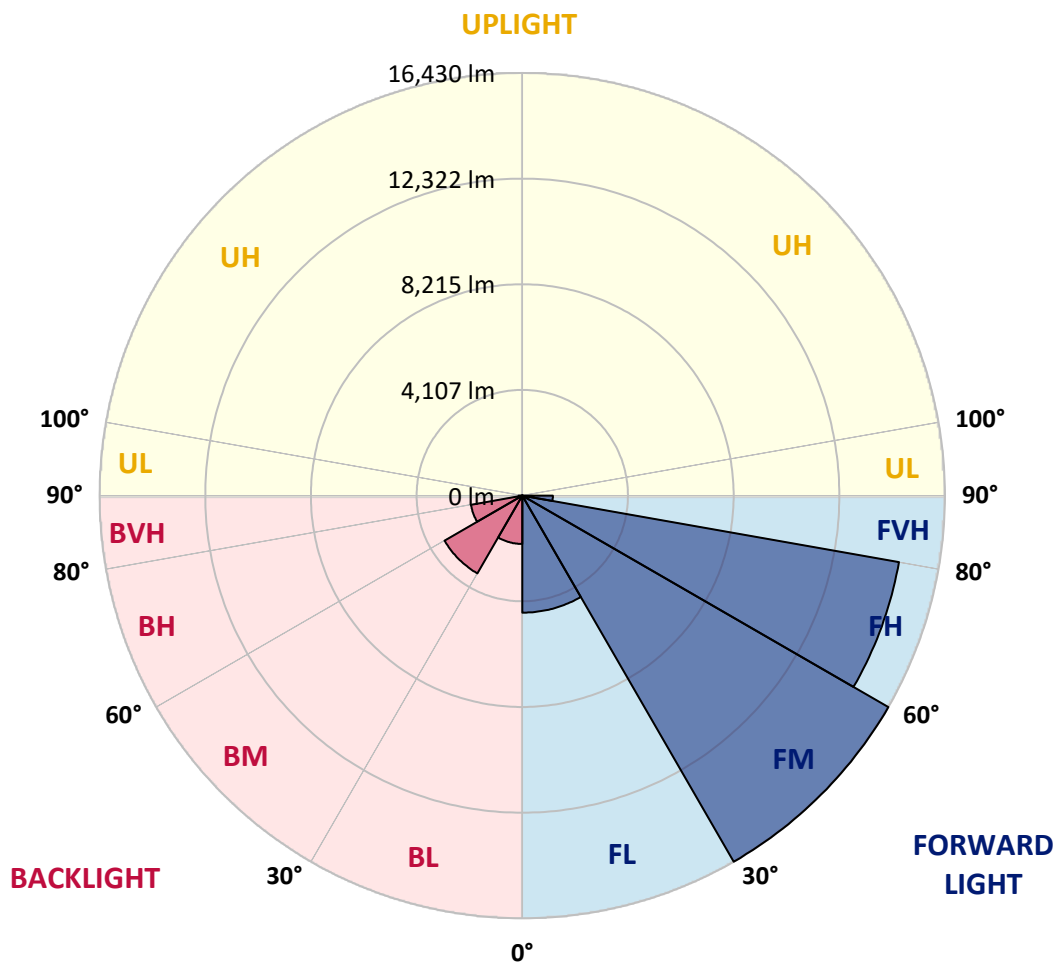
CATALOG NUMBER: GALN-SA8C-730-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4549.0	10.2			
FM	(30°-60°)	16429.8	36.9			
FH	(60°-80°)	14867.4	33.4			G5
FVH	(80°-90°)	1187.2	2.7			G5
BL	(0°-30°)	1878.9	4.2	B3/2500		
BM	(30°-60°)	3489.9	7.8	B3/5000		
BH	(60°-80°)	2026.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	137.0	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





REPORT NUMBER: P457192

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5
2.5°	15012.3	15032.3	15160.9	15535.3	15792.5	15886.8	15952.6	15829.7	15709.6	15418.1	14978.0
5°	14966.6	15083.8	15418.1	16258.3	16921.4	17207.1	17292.9	16924.2	16315.5	15566.7	14666.5
7.5°	14092.1	14249.3	14763.7	16172.6	17341.5	18010.2	17921.6	17255.7	16158.3	14823.7	13566.2
10°	13054.7	13229.0	13849.2	15552.5	17058.5	17978.8	17978.8	17167.1	15709.6	14123.5	12674.6
12.5°	12231.6	12414.5	13123.3	14915.1	16469.8	17341.5	17487.2	16789.9	15386.7	13680.6	12088.7
15°	11960.1	12137.3	12900.4	14529.3	15846.8	16378.4	16427.0	16198.3	15229.5	13712.0	12063.0
17.5°	12297.4	12526.0	13297.6	14643.7	15275.2	15306.7	15343.8	15523.9	15246.7	14286.4	12583.1
20°	13271.9	13517.7	14323.6	15012.3	14775.1	14449.3	14469.3	14932.3	15449.6	15235.2	13826.3
22.5°	14677.9	14892.3	15718.2	15661.0	14563.6	13892.0	13752.0	14397.9	15749.6	16418.4	15149.5
25°	16195.5	16447.0	17395.8	16624.1	14623.6	13560.5	13471.9	14083.5	16061.1	17524.4	16678.4
27.5°	17933.0	18178.8	18927.6	17595.8	14938.0	13534.8	13429.1	14054.9	16341.2	18547.5	18138.8
30°	19224.8	19450.6	19959.3	18413.2	15323.8	13706.3	13574.8	14280.7	16581.3	19247.7	19562.0
32.5°	20239.3	20473.7	20750.9	18921.9	15832.5	14017.8	13774.9	14692.2	16895.6	19782.1	20616.6
35°	21296.7	21574.0	21553.9	19373.4	16306.9	14377.9	14140.7	15286.7	17390.1	20247.9	21954.0
37.5°	22637.1	22748.5	22605.6	19779.2	16875.6	15026.6	14895.1	16169.7	18093.1	20810.9	23517.3
40°	23997.4	24220.3	23485.9	20270.8	17567.2	16246.9	16232.6	17475.8	18927.6	21471.1	25032.0
42.5°	25163.4	25352.0	24308.9	20699.4	18404.6	17735.9	17844.5	19227.7	20022.1	22237.0	26249.4
45°	26040.8	26209.4	25069.1	21113.8	19507.7	19456.3	20096.4	21105.3	21402.5	22925.7	26963.9
47.5°	26786.7	26949.6	25597.8	21742.6	20870.9	21511.1	22625.6	23062.9	22582.8	23320.1	27764.1
50°	27415.4	27464.0	25960.8	22491.3	22562.8	24028.9	25109.1	25392.0	23748.8	23886.0	28458.5
52.5°	28069.9	28007.0	26586.6	23434.4	24391.8	26418.0	27203.9	27498.3	24866.2	24583.3	29470.2
55°	29535.9	29596.0	27989.8	24623.3	26240.8	28764.3	29798.9	29515.9	26103.7	25866.5	30756.2
57.5°	31307.8	31256.4	29964.6	26483.7	28124.2	30947.7	31719.3	31264.9	27755.5	27629.7	32059.4
60°	31996.6	32065.1	31616.5	28484.2	29981.8	32859.6	33648.4	32942.5	29736.0	29678.8	33042.5
62.5°	31305.0	31690.8	31993.7	30264.7	31565.0	34265.7	35048.7	34242.8	31802.2	32216.6	33731.3
65°	29927.5	30010.3	31042.0	31773.6	32328.1	34497.2	34905.8	34477.2	33528.4	34528.6	33699.8
67.5°	28138.4	28209.9	29418.8	32268.0	31345.0	31867.9	32153.7	32028.0	32993.9	35320.2	32148.0
70°	26435.2	26378.0	27655.5	31007.7	27286.8	26492.3	26729.5	26335.1	28470.0	33385.5	29104.4
72.5°	23120.1	23325.8	24697.6	27504.0	21605.4	20313.6	20830.9	19810.7	21896.9	28592.8	23623.0
75°	18110.2	18158.8	20448.0	23082.9	16298.4	14260.7	14960.9	14535.1	16772.8	23851.7	16312.6
77.5°	12540.3	12431.7	14892.3	17630.1	11622.9	10439.7	10451.2	10248.3	11711.5	17561.5	11082.8
80°	7964.8	7799.1	9322.3	10891.3	7987.7	8545.0	8264.9	8256.3	7624.8	10834.1	6701.7
82.5°	4303.9	4486.8	5890.0	6827.4	5730.0	6604.5	6052.9	5875.8	5232.7	6781.7	4286.8
85°	1960.5	2132.0	3140.8	4644.0	4352.5	4401.1	2940.7	3469.4	4329.7	5507.1	2289.1
87.5°	191.5	245.8	648.7	2192.0	1486.1	1171.7	437.3	843.1	1088.8	1957.6	182.9
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: P457192
 CATALOG NUMBER: GALN-SA8C-730-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5
2.5°	14798.0	14649.4	14143.5	13726.3	13283.3	12946.1	12506.0	12211.6	12008.7	11702.9	11665.8
5°	14117.8	13754.9	12874.6	11977.3	11202.8	10619.8	10028.2	9485.2	9165.1	9065.1	8936.5
7.5°	12971.8	12360.2	11228.5	10199.7	9310.9	8442.1	7773.4	7299.0	6981.7	6796.0	6573.1
10°	12028.7	11320.0	9942.5	8682.2	7950.6	7410.4	6821.7	6313.0	5921.5	5587.1	5404.2
12.5°	11394.3	10594.1	9045.1	8022.0	7456.1	6881.7	6193.0	5621.4	5044.1	4664.0	4501.1
15°	11202.8	10356.9	8767.9	7693.3	6881.7	6130.1	5358.5	4612.6	4041.0	3680.9	3560.9
17.5°	11671.5	10648.4	8765.0	7256.1	6207.3	5309.9	4321.1	3620.9	3035.0	2766.4	2680.7
20°	12546.0	11208.5	8790.8	6824.6	5475.7	4212.5	3143.6	2569.2	2289.1	2174.8	2132.0
22.5°	13766.3	12063.0	8867.9	6398.7	4675.5	3235.1	2354.9	2063.4	1963.3	1943.3	1934.8
25°	15269.5	13120.4	9128.0	6015.8	4001.0	2469.2	1969.1	1837.6	1780.4	1760.4	1757.6
27.5°	16652.7	14486.5	9442.4	5687.1	3349.4	2129.1	1780.4	1669.0	1611.8	1609.0	1614.7
30°	17901.6	15629.6	9705.3	5318.5	2855.0	1891.9	1657.6	1546.1	1491.8	1488.9	1506.1
32.5°	18981.9	16569.8	9899.6	4955.5	2580.6	1746.1	1546.1	1426.1	1380.3	1371.8	1380.3
35°	20136.5	17507.2	9811.0	4672.6	2423.5	1626.1	1463.2	1346.1	1291.8	1266.0	1266.0
37.5°	21453.9	18473.2	9659.6	4438.2	2352.0	1526.1	1391.8	1277.5	1223.2	1197.4	1194.6
40°	22891.4	19439.1	9450.9	4229.6	2280.6	1466.1	1343.2	1223.2	1157.4	1131.7	1126.0
42.5°	24160.3	20265.1	9279.5	4092.4	2163.4	1477.5	1300.3	1183.2	1100.3	1066.0	1063.1
45°	25263.4	21096.7	9248.0	4012.4	2066.2	1460.4	1288.9	1151.7	1054.5	1017.4	1011.7
47.5°	26126.5	21962.6	9428.1	3966.7	1960.5	1368.9	1363.2	1131.7	1014.5	974.5	968.8
50°	27178.2	23191.5	9839.6	3872.4	1863.3	1283.2	1440.4	1128.9	983.1	931.7	917.4
52.5°	28578.6	24791.9	10396.9	3703.8	1723.3	1203.2	1374.6	1128.9	946.0	894.5	877.4
55°	30696.2	26832.4	10942.7	3466.6	1526.1	1097.4	1240.3	1094.6	891.7	845.9	834.5
57.5°	32099.4	28324.2	11291.4	3137.9	1280.3	1020.3	1068.8	1040.3	837.4	788.8	788.8
60°	32170.9	28724.3	11125.6	2723.5	1126.0	948.8	928.8	1048.8	788.8	737.3	731.6
62.5°	31347.8	27744.1	10262.6	2352.0	1043.1	871.6	840.2	920.2	740.2	688.7	680.2
65°	30061.8	25243.4	8765.0	2174.8	997.4	803.1	757.3	754.5	688.7	640.2	628.7
67.5°	27698.3	22059.8	7201.8	2071.9	974.5	725.9	683.0	668.7	628.7	588.7	583.0
70°	24214.6	18476.0	5775.7	2029.1	963.1	645.9	611.6	594.4	560.1	528.7	525.8
72.5°	18839.0	14986.6	4766.9	2000.5	957.4	571.6	534.4	511.6	491.6	463.0	463.0
75°	13531.9	11025.6	3638.1	1803.3	885.9	491.6	451.5	437.3	408.7	385.8	391.5
77.5°	8530.7	7424.7	2394.9	1326.0	685.9	394.4	360.1	351.5	328.7	297.2	317.2
80°	5761.4	5221.3	1397.5	834.5	431.5	288.6	277.2	274.4	248.6	214.3	217.2
82.5°	3921.0	3846.7	725.9	474.4	248.6	168.6	162.9	168.6	140.0	114.3	114.3
85°	1531.8	2092.0	342.9	185.8	80.0	25.7	37.2	40.0	22.9	11.4	14.3
87.5°	28.6	214.3	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



REPORT NUMBER: P457192
 CATALOG NUMBER: GALN-SA8C-730-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5
2.5°	11608.6	11582.9	11625.8	11442.9	11480.0	11548.6	11582.9	11602.9	11885.8	11820.1	12000.1
5°	9056.5	9030.8	9196.6	9219.4	9305.2	9288.0	9370.9	9390.9	9493.8	9530.9	9782.4
7.5°	6587.4	6698.8	6887.4	6984.6	7130.4	7176.1	7133.2	7238.9	7024.6	7178.9	7224.7
10°	5292.7	5158.4	5078.4	5301.3	5329.9	5541.4	5455.6	5387.1	5512.8	5518.5	5638.5
12.5°	4406.8	4118.2	3926.7	3989.6	4058.2	4149.6	4163.9	4301.1	4392.5	4478.3	4549.7
15°	3455.1	3355.1	3180.8	3095.1	3192.2	3229.4	3318.0	3432.3	3529.5	3555.2	3652.3
17.5°	2652.1	2669.2	2640.7	2589.2	2649.2	2677.8	2683.5	2686.4	2712.1	2695.0	2837.9
20°	2134.8	2194.8	2266.3	2277.7	2297.7	2312.0	2286.3	2189.1	2192.0	2252.0	2297.7
22.5°	1931.9	1943.3	2023.4	2049.1	2112.0	2086.2	2011.9	1966.2	1960.5	1974.8	1997.6
25°	1771.9	1789.0	1846.2	1886.2	1934.8	1889.0	1834.7	1791.9	1786.2	1800.4	1823.3
27.5°	1629.0	1654.7	1706.1	1746.1	1791.9	1749.0	1697.6	1660.4	1657.6	1654.7	1669.0
30°	1514.7	1543.2	1580.4	1626.1	1657.6	1620.4	1571.8	1551.8	1549.0	1543.2	1549.0
32.5°	1400.3	1446.1	1483.2	1506.1	1537.5	1508.9	1471.8	1460.4	1440.4	1423.2	1414.6
35°	1271.7	1320.3	1377.5	1406.1	1437.5	1408.9	1383.2	1334.6	1300.3	1297.5	1303.2
37.5°	1197.4	1217.4	1263.2	1311.8	1343.2	1328.9	1280.3	1231.7	1223.2	1223.2	1228.9
40°	1131.7	1140.3	1160.3	1223.2	1280.3	1237.5	1177.4	1163.1	1163.1	1160.3	1163.1
42.5°	1066.0	1074.6	1074.6	1123.1	1214.6	1146.0	1100.3	1100.3	1100.3	1103.1	1111.7
45°	1006.0	1008.8	1006.0	1040.3	1126.0	1068.8	1037.4	1046.0	1051.7	1057.4	1063.1
47.5°	954.5	957.4	954.5	983.1	1026.0	1003.1	986.0	997.4	1008.8	1017.4	1023.1
50°	908.8	905.9	911.7	928.8	948.8	954.5	943.1	960.2	966.0	977.4	991.7
52.5°	868.8	865.9	871.6	880.2	908.8	908.8	908.8	923.1	934.5	946.0	966.0
55°	823.1	825.9	834.5	845.9	883.1	877.4	880.2	891.7	903.1	920.2	931.7
57.5°	780.2	785.9	797.3	814.5	851.6	848.8	851.6	857.4	871.6	880.2	891.7
60°	731.6	743.0	757.3	768.8	805.9	803.1	817.3	828.8	837.4	837.4	843.1
62.5°	683.0	700.2	714.5	723.0	763.0	765.9	785.9	794.5	800.2	794.5	803.1
65°	634.4	660.2	665.9	677.3	717.3	720.2	743.0	763.0	757.3	751.6	765.9
67.5°	585.9	617.3	614.4	628.7	668.7	674.5	694.5	728.8	717.3	711.6	723.0
70°	531.6	554.4	557.3	565.9	620.2	611.6	643.0	674.5	665.9	668.7	668.7
72.5°	471.5	491.6	491.6	508.7	565.9	551.6	577.3	611.6	611.6	608.7	608.7
75°	400.1	411.5	423.0	448.7	508.7	491.6	508.7	540.1	545.9	540.1	540.1
77.5°	322.9	340.1	345.8	380.1	423.0	420.1	437.3	451.5	463.0	457.3	457.3
80°	228.6	245.8	268.6	305.8	331.5	340.1	348.7	360.1	365.8	365.8	371.5
82.5°	128.6	154.3	174.3	211.5	222.9	265.8	262.9	271.5	262.9	231.5	257.2
85°	28.6	54.3	77.2	97.2	111.5	154.3	162.9	182.9	151.5	140.0	140.0
87.5°	0.0	0.0	0.0	0.0	0.0	22.9	45.7	62.9	54.3	45.7	45.7
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: P457192
 CATALOG NUMBER: GALN-SA8C-730-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5	13923.5
2.5°	12151.6	12400.2	12700.3	13217.6	13580.5	13972.1	14366.4	14786.5	14898.0	15012.3
5°	9851.0	10339.7	10605.5	11300.0	12028.7	12954.7	13712.0	14540.8	14886.6	14966.6
7.5°	7461.9	7793.4	8490.7	9193.7	10096.8	11068.5	12228.8	13520.5	13923.5	14092.1
10°	5915.8	6367.3	6978.9	7733.4	8525.0	9571.0	10879.9	12388.8	12960.4	13054.7
12.5°	5035.5	5538.5	6204.4	7001.7	7750.5	8539.3	9859.6	11417.1	12028.7	12231.6
15°	4026.7	4635.4	5404.2	6244.4	7058.9	7922.0	9259.5	11017.0	11722.9	11960.1
17.5°	3163.6	3655.2	4486.8	5398.5	6364.4	7456.1	9133.7	11208.5	12077.3	12297.4
20°	2420.6	2772.1	3472.3	4435.4	5567.1	6996.0	9165.1	11931.5	12971.8	13271.9
22.5°	2092.0	2272.0	2697.8	3615.2	4881.2	6595.9	9293.7	12923.2	14177.8	14677.9
25°	1894.8	1989.1	2229.1	2829.3	4226.8	6207.3	9588.1	14257.8	15864.0	16195.5
27.5°	1726.1	1794.7	1943.3	2374.9	3632.3	5847.2	9931.0	15738.2	17438.6	17933.0
30°	1566.1	1657.6	1797.6	2109.1	3252.2	5518.5	10362.6	16938.5	18764.7	19224.8
32.5°	1443.2	1534.7	1663.3	1923.3	2929.3	5172.7	10619.8	17993.1	19847.8	20239.3
35°	1343.2	1420.4	1554.7	1774.7	2683.5	4909.8	10568.4	18830.4	20896.6	21296.7
37.5°	1271.7	1337.5	1471.8	1634.7	2497.8	4635.4	10542.6	19936.4	22174.1	22637.1
40°	1206.0	1274.6	1397.5	1543.2	2312.0	4312.5	10556.9	21033.8	23534.4	23997.4
42.5°	1154.6	1231.7	1331.8	1517.5	2120.5	4052.4	10556.9	21988.3	24717.6	25163.4
45°	1111.7	1194.6	1291.8	1514.7	1969.1	3855.2	10485.5	22808.5	25660.7	26040.8
47.5°	1074.6	1166.0	1306.0	1463.2	1931.9	3712.4	10422.6	23465.9	26429.4	26786.7
50°	1048.8	1157.4	1388.9	1403.2	1943.3	3669.5	10725.5	24294.6	27106.8	27415.4
52.5°	1028.8	1160.3	1386.1	1314.6	1923.3	3698.1	11357.1	25589.2	28047.0	28069.9
55°	988.8	1157.4	1314.6	1214.6	1840.5	3746.6	12168.7	27469.7	29518.8	29535.9
57.5°	948.8	1126.0	1220.3	1128.9	1671.8	3746.6	13146.1	29250.2	31293.5	31307.8
60°	908.8	1171.7	1071.7	1054.5	1451.8	3678.1	14177.8	30033.2	31850.8	31996.6
62.5°	868.8	1180.3	957.4	988.8	1291.8	3512.3	14946.6	29167.3	31096.3	31305.0
65°	823.1	951.7	883.1	920.2	1208.9	3235.1	14703.7	27581.2	29678.8	29927.5
67.5°	768.8	805.9	803.1	848.8	1180.3	2826.4	13423.3	25575.0	28152.7	28138.4
70°	703.0	723.0	731.6	780.2	1126.0	2509.2	11185.6	22971.4	26115.1	26435.2
72.5°	634.4	651.6	660.2	703.0	1071.7	2329.2	8682.2	19384.8	22619.9	23120.1
75°	560.1	571.6	583.0	620.2	1014.5	2063.4	6184.4	14798.0	17324.3	18110.2
77.5°	483.0	483.0	497.3	534.4	854.5	1703.3	4149.6	10379.7	11737.2	12540.3
80°	391.5	394.4	388.7	428.7	628.7	1166.0	2357.7	6933.2	7810.5	7964.8
82.5°	300.1	291.5	294.4	314.4	468.7	794.5	1257.5	4306.8	4389.7	4303.9
85°	188.6	188.6	182.9	205.8	300.1	414.4	685.9	2637.8	2060.5	1960.5
87.5°	77.2	62.9	71.4	82.9	142.9	168.6	268.6	543.0	208.6	191.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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