

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: P529512

Luminaire Tested: **GALN-SA4C-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16459 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 213
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



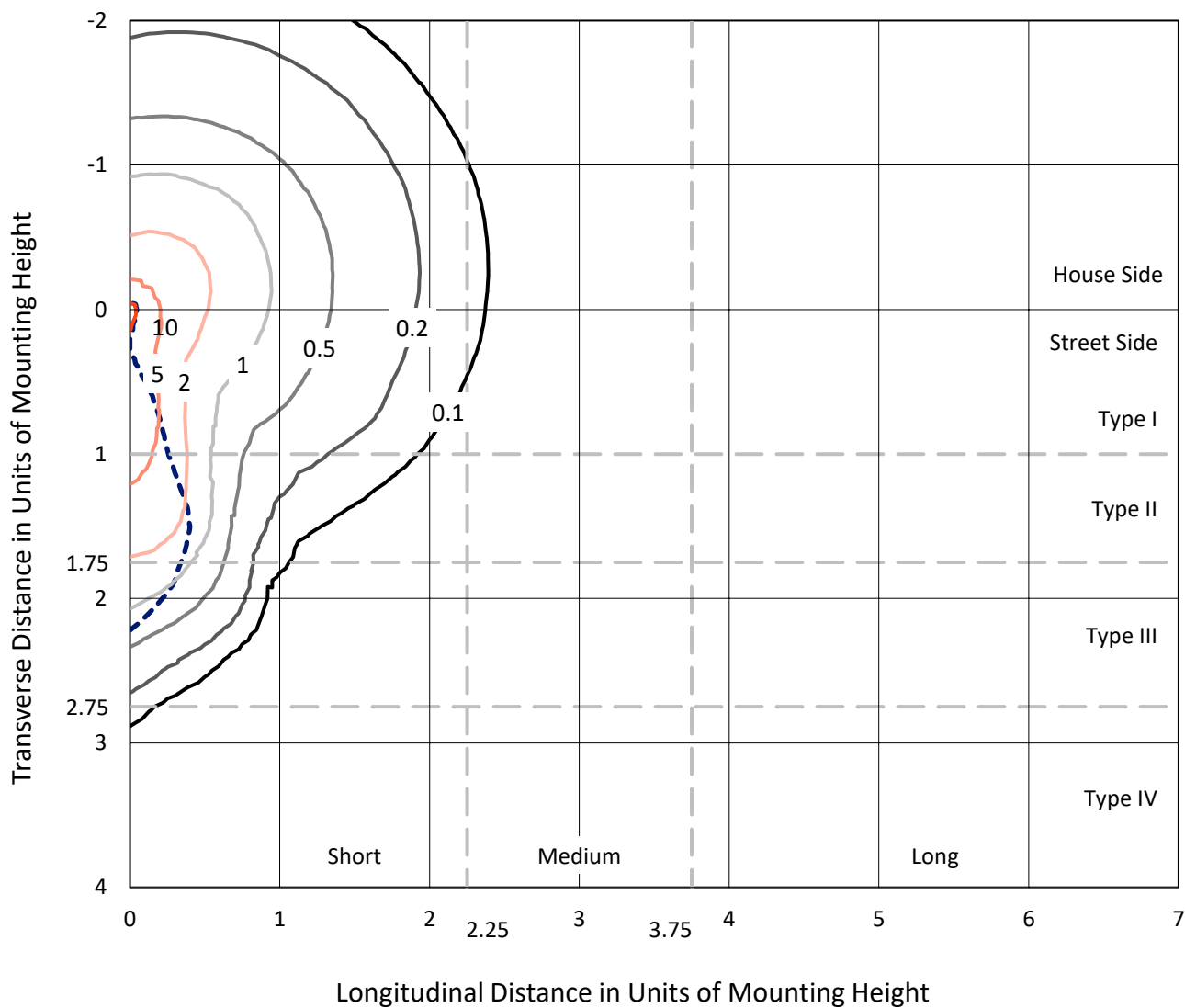
REPORT NUMBER: P529512

CATALOG NUMBER: GALN-SA4C-830-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



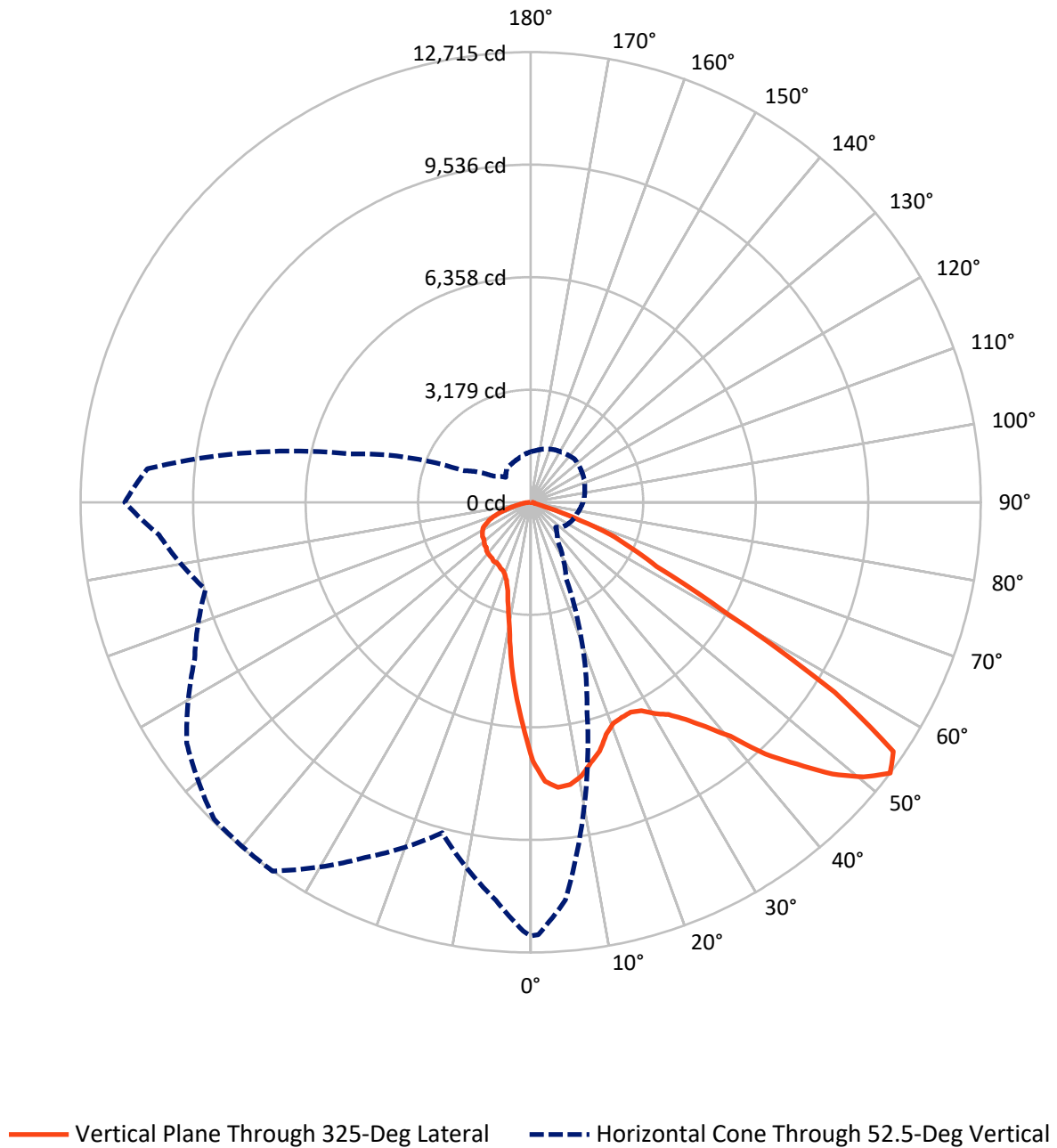
Based on 25 foot mounting height. Maximum calculated value = 11.7 fc

Type III - Short - N/A

REPORT NUMBER: P529512

CATALOG NUMBER: GALN-SA4C-830-U-SLR-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P529512

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4961.7	0.0	4961.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	11497.3	0.0	11497.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	16459.0	0.0	16459.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.3	3.4
10°-20°	1208.1	7.3
20°-30°	1825.3	11.1
30°-40°	2637.7	16.0
40°-50°	3510.3	21.3
50°-60°	3926.3	23.9
60°-70°	2212.9	13.4
70°-80°	493.3	3.0
80°-90°	87.8	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°	16459.0	100.0
0°-180°	16459.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529512

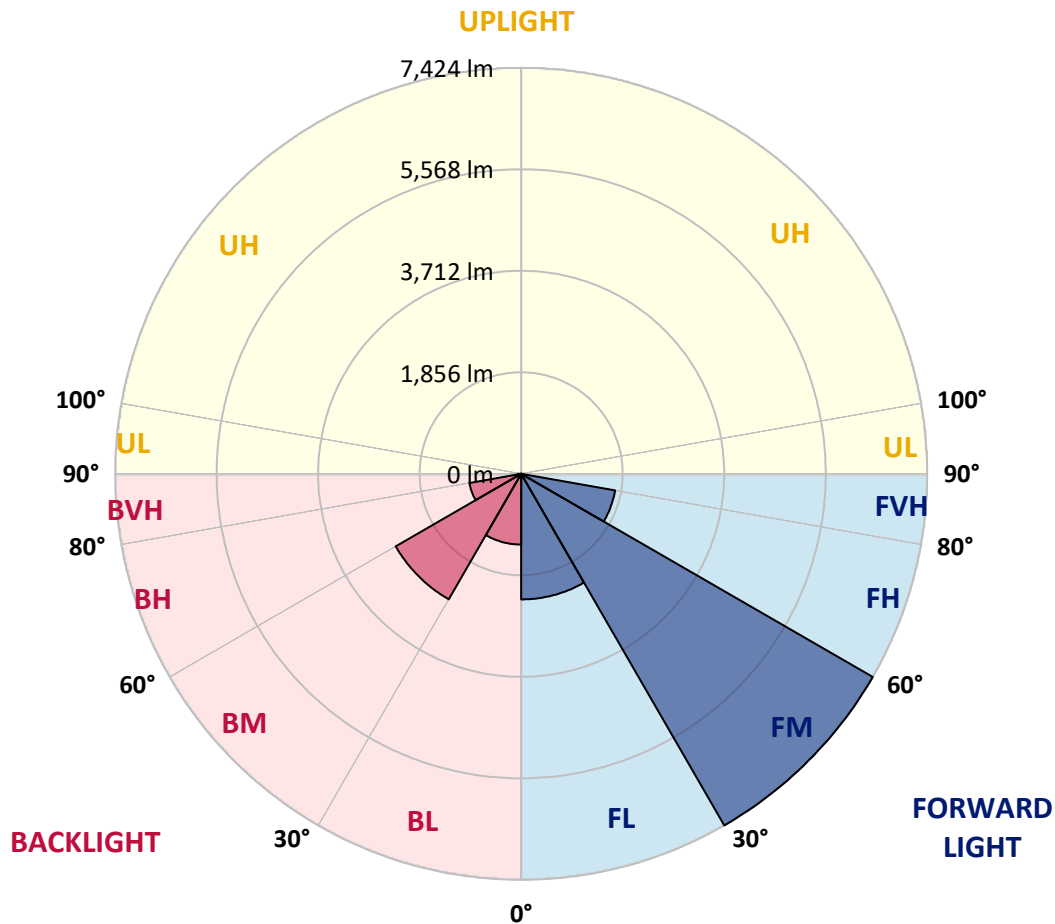
CATALOG NUMBER: GALN-SA4C-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2296.8	14.0			
FM	(30°-60°)	7424.3	45.1			
FH	(60°-80°)	1744.4	10.6			G1/1800
FVH	(80°-90°)	31.8	0.2			G1/100
BL	(0°-30°)	1293.9	7.9	B3/2500		
BM	(30°-60°)	2650.0	16.1	B3/5000		
BH	(60°-80°)	961.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	56.0	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 III Short



REPORT NUMBER: P529512

CATALOG NUMBER: GALN-SA4C-830-U-SLR-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6
2.5°	7426.3	7545.5	7416.7	7187.7	7025.5	6877.6	6722.5	6691.5	6488.7	6453.0	6305.1
5°	7004.0	6977.8	6820.3	6519.8	6188.2	5887.6	5665.7	5451.0	5305.5	5136.1	5124.2
7.5°	6491.1	6338.5	6247.8	5792.2	5381.8	4909.5	4706.7	4379.9	4277.3	4124.6	4045.9
10°	6033.1	5921.0	5708.7	5253.0	4680.5	4368.0	4150.9	3974.4	3855.1	3697.6	3499.6
12.5°	5806.5	5761.1	5522.6	4816.5	4391.8	4057.8	3905.2	3733.4	3530.6	3277.8	3180.0
15°	5847.0	5694.3	5513.0	4733.0	4146.1	3824.1	3580.7	3366.0	3106.0	2865.1	2724.3
17.5°	6150.0	6033.1	5670.5	4785.4	4053.1	3587.9	3146.6	2829.3	2595.5	2378.4	2280.6
20°	6746.4	6577.0	6169.1	4852.2	3852.7	3258.7	2752.9	2361.7	2111.2	1996.7	1963.3
22.5°	7407.2	7307.0	6655.7	5002.5	3692.9	2953.3	2335.5	1944.2	1851.2	1820.2	1882.2
25°	8211.1	7951.1	7412.0	5248.2	3568.8	2693.3	1982.4	1765.3	1717.6	1748.6	1820.2
27.5°	8821.8	8752.6	7941.6	5479.6	3399.4	2380.8	1784.4	1641.3	1655.6	1686.6	1753.4
30°	9547.0	9196.4	8454.4	5639.5	3246.8	2166.1	1646.0	1607.9	1622.2	1674.7	1708.1
32.5°	9983.6	9852.4	8776.5	5880.4	3070.2	1980.0	1538.7	1502.9	1524.4	1603.1	1681.8
35°	10539.4	10279.4	9174.9	5942.4	2946.2	1906.1	1462.4	1436.1	1486.2	1541.1	1629.3
37.5°	11188.3	11009.4	9726.0	5899.5	2879.4	1829.7	1397.9	1386.0	1421.8	1498.1	1600.7
40°	11572.4	11517.5	10014.6	5925.7	2774.4	1762.9	1324.0	1338.3	1412.3	1471.9	1572.1
42.5°	11942.1	11584.3	10441.6	5916.2	2707.6	1672.3	1331.1	1314.4	1371.7	1440.9	1536.3
45°	12023.3	11667.8	10541.8	5849.4	2626.5	1584.0	1276.3	1283.4	1352.6	1438.5	1500.5
47.5°	11970.8	11708.4	10727.9	5830.3	2550.2	1522.0	1195.2	1281.0	1321.6	1390.8	1479.1
50°	11935.0	11920.7	10885.3	5921.0	2447.6	1424.2	1097.4	1250.0	1290.6	1359.8	1455.2
52.5°	12249.9	12218.9	11279.0	6159.5	2366.5	1319.2	997.2	1171.3	1269.1	1335.9	1429.0
55°	12440.7	12304.8	11954.1	6453.0	2230.5	1180.9	928.0	1073.5	1216.6	1276.3	1371.7
57.5°	11190.7	11097.7	10813.8	6023.6	2001.5	999.6	842.1	973.3	1145.1	1238.1	1335.9
60°	9310.9	9165.3	8437.7	5119.4	1476.7	777.7	789.6	894.6	1126.0	1161.8	1276.3
62.5°	8778.9	8418.7	7428.7	4119.9	1133.1	668.0	708.5	823.0	1025.8	1085.4	1199.9
65°	6965.9	6698.7	5315.0	2974.8	758.6	579.7	646.5	741.9	885.0	1001.9	1106.9
67.5°	4360.8	4105.6	2836.4	1407.5	529.6	496.2	577.3	677.5	794.4	899.4	1016.3
70°	2278.2	1999.1	1309.7	508.1	365.0	405.5	481.9	577.3	691.8	777.7	868.3
72.5°	849.3	689.4	427.0	219.5	252.9	310.1	391.2	460.4	541.5	646.5	696.6
75°	131.2	112.1	109.7	133.6	171.8	224.2	279.1	348.3	419.9	486.7	520.1
77.5°	62.0	59.6	66.8	88.3	114.5	159.8	202.8	269.6	326.8	369.8	388.8
80°	40.6	38.2	42.9	59.6	85.9	119.3	162.2	207.5	260.0	295.8	291.0
82.5°	23.9	26.2	26.2	40.6	59.6	85.9	116.9	157.4	193.2	224.2	205.2
85°	14.3	11.9	11.9	23.9	40.6	69.2	97.8	66.8	69.2	69.2	78.7
87.5°	4.8	4.8	4.8	2.4	4.8	4.8	7.2	11.9	14.3	16.7	21.5
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: P529512

CATALOG NUMBER: GALN-SA4C-830-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6
2.5°	6300.3	6374.2	6348.0	6255.0	6326.5	6338.5	6290.7	6455.3	6486.4	6436.3	6450.6
5°	5107.5	5126.6	5169.5	5260.2	5324.6	5400.9	5400.9	5405.7	5341.3	5503.5	5455.8
7.5°	3979.1	3991.1	4041.2	4234.4	4289.2	4434.8	4496.8	4453.9	4325.0	4270.2	4315.5
10°	3435.2	3366.0	3349.3	3373.2	3497.2	3559.3	3611.7	3597.4	3576.0	3533.0	3485.3
12.5°	3072.6	3022.5	2982.0	2924.7	2931.9	2991.5	3032.1	2998.7	3008.2	3017.7	3032.1
15°	2679.0	2643.2	2621.7	2535.9	2526.3	2566.9	2581.2	2600.3	2636.1	2638.4	2621.7
17.5°	2261.5	2230.5	2278.2	2325.9	2292.5	2294.9	2321.2	2337.9	2328.3	2285.4	2263.9
20°	1975.2	2008.6	2056.4	2101.7	2137.5	2158.9	2168.5	2142.2	2111.2	2023.0	2020.6
22.5°	1891.8	1934.7	1975.2	2044.4	2077.8	2132.7	2082.6	2023.0	1980.0	1937.1	1887.0
25°	1829.7	1865.5	1946.6	1972.9	2037.3	2082.6	2046.8	1987.2	1913.2	1851.2	1813.0
27.5°	1784.4	1825.0	1877.4	1949.0	1999.1	2025.3	1989.6	1965.7	1889.4	1815.4	1760.5
30°	1755.8	1798.7	1894.1	1953.8	1996.7	2018.2	1956.2	1927.5	1872.7	1810.6	1762.9
32.5°	1736.7	1774.9	1856.0	1932.3	1960.9	1960.9	1970.5	1937.1	1860.7	1755.8	1715.2
35°	1674.7	1727.2	1793.9	1882.2	1934.7	1965.7	1918.0	1879.8	1829.7	1722.4	1648.4
37.5°	1638.9	1674.7	1760.5	1844.0	1889.4	1922.8	1903.7	1836.9	1770.1	1681.8	1622.2
40°	1600.7	1658.0	1734.3	1813.0	1863.1	1896.5	1882.2	1803.5	1722.4	1638.9	1598.3
42.5°	1574.5	1612.6	1691.4	1779.6	1839.3	1903.7	1860.7	1762.9	1705.7	1591.2	1545.8
45°	1553.0	1615.0	1698.5	1734.3	1796.3	1863.1	1786.8	1727.2	1660.4	1576.9	1538.7
47.5°	1526.8	1584.0	1638.9	1734.3	1762.9	1793.9	1779.6	1684.2	1627.0	1536.3	1510.1
50°	1517.2	1538.7	1638.9	1691.4	1731.9	1762.9	1724.8	1653.2	1598.3	1505.3	1448.0
52.5°	1479.1	1519.6	1584.0	1653.2	1703.3	1741.5	1679.4	1634.1	1560.2	1462.4	1426.6
55°	1431.3	1455.2	1569.7	1641.3	1667.5	1693.8	1669.9	1595.9	1519.6	1419.4	1383.6
57.5°	1369.3	1424.2	1517.2	1617.4	1650.8	1665.1	1627.0	1567.3	1471.9	1383.6	1326.4
60°	1304.9	1362.2	1464.7	1545.8	1579.2	1631.7	1574.5	1538.7	1429.0	1331.1	1269.1
62.5°	1240.5	1304.9	1381.2	1483.8	1512.4	1533.9	1519.6	1469.5	1381.2	1271.5	1195.2
65°	1164.2	1211.9	1307.3	1359.8	1378.9	1429.0	1378.9	1359.8	1281.0	1176.1	1111.7
67.5°	1049.6	1090.2	1173.7	1223.8	1238.1	1259.6	1257.2	1235.7	1147.5	1075.9	1018.6
70°	918.4	954.2	1006.7	1066.3	1073.5	1099.7	1075.9	1071.1	1013.9	916.1	885.0
72.5°	737.1	770.5	839.7	866.0	868.3	877.9	866.0	849.3	834.9	732.4	701.4
75°	565.4	584.5	617.9	641.7	641.7	653.6	646.5	629.8	591.6	527.2	496.2
77.5°	393.6	412.7	455.6	470.0	467.6	472.3	450.9	434.2	376.9	343.5	317.3
80°	286.3	298.2	319.7	329.2	331.6	338.8	312.5	298.2	264.8	226.6	214.7
82.5°	207.5	214.7	217.1	229.0	229.0	217.1	209.9	195.6	171.8	147.9	138.4
85°	85.9	88.3	90.7	105.0	107.4	128.8	119.3	112.1	97.8	83.5	76.3
87.5°	21.5	23.9	31.0	26.2	31.0	31.0	33.4	38.2	38.2	31.0	31.0
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°	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6
2.5°	6505.4	6524.5	6767.9	6798.9	6918.1	7039.8	7285.5	7462.1	7605.2	7698.2	7724.5
5°	5505.9	5627.6	5739.7	5921.0	6085.6	6319.4	6588.9	6922.9	7342.8	7557.5	7643.4
7.5°	4310.7	4453.9	4616.1	4792.6	5033.5	5453.4	5813.6	6200.1	6736.8	6958.7	7295.1
10°	3518.7	3678.5	3893.2	4029.2	4320.3	4721.0	5140.9	5587.0	6099.9	6419.6	6808.4
12.5°	3110.8	3242.0	3440.0	3726.3	3943.3	4203.4	4515.9	5078.9	5813.6	6116.6	6383.8
15°	2659.9	2805.4	3034.4	3351.7	3611.7	3921.9	4272.6	4885.6	5668.1	6135.7	6362.3
17.5°	2287.8	2392.7	2633.7	2908.0	3206.2	3545.0	4048.3	4876.1	5820.8	6419.6	6789.3
20°	2030.1	2044.4	2175.6	2409.4	2815.0	3256.3	3909.9	4828.4	6309.8	6908.6	7376.2
22.5°	1867.9	1853.6	1856.0	2054.0	2337.9	2972.4	3692.9	4990.6	6865.7	7686.3	8001.2
25°	1786.8	1748.6	1724.8	1767.7	2025.3	2636.1	3528.3	5205.3	7464.4	8328.0	8714.5
27.5°	1743.8	1677.1	1629.3	1636.5	1825.0	2466.7	3425.7	5298.3	8058.4	9222.6	9358.6
30°	1727.2	1643.7	1574.5	1550.6	1674.7	2230.5	3206.2	5458.2	8590.4	9714.0	9830.9
32.5°	1667.5	1564.9	1498.1	1476.7	1526.8	2023.0	3048.8	5572.7	9060.4	10248.4	10207.8
35°	1598.3	1512.4	1429.0	1388.4	1424.2	1889.4	2922.3	5517.8	9613.8	10663.5	10642.0
37.5°	1591.2	1479.1	1409.9	1343.1	1340.7	1724.8	2750.6	5570.3	9966.9	11407.8	11114.4
40°	1529.1	1457.6	1366.9	1312.1	1281.0	1641.3	2583.6	5446.2	10484.6	11708.4	11419.7
42.5°	1531.5	1424.2	1345.5	1281.0	1250.0	1519.6	2469.1	5412.9	10665.9	12197.4	11562.8
45°	1493.4	1388.4	1321.6	1245.3	1228.6	1426.6	2359.3	5257.8	10985.5	12221.3	11383.9
47.5°	1455.2	1362.2	1290.6	1199.9	1161.8	1393.2	2273.4	5129.0	10818.5	11997.0	11135.8
50°	1429.0	1321.6	1254.8	1190.4	1083.0	1335.9	2161.3	5098.0	10584.8	11694.0	10675.4
52.5°	1383.6	1288.2	1219.0	1168.9	997.2	1283.4	2118.4	5279.3	10871.0	11467.4	10541.8
55°	1340.7	1242.9	1154.6	1056.8	925.6	1145.1	1999.1	5448.6	11288.5	11989.9	11147.8
57.5°	1295.4	1202.3	1106.9	990.0	856.4	1001.9	1875.1	5479.6	10506.0	11081.0	10582.4
60°	1235.7	1116.4	1044.9	892.2	782.5	830.2	1486.2	4830.8	8149.1	9253.6	9270.3
62.5°	1168.9	1040.1	978.1	799.2	706.1	715.7	1211.9	4060.2	6610.4	7660.1	8115.7
65°	1080.7	956.6	882.7	739.5	651.3	620.2	887.4	2974.8	5021.6	6214.4	6732.1
67.5°	966.2	849.3	756.2	644.1	582.1	532.0	605.9	1674.7	2965.3	4172.4	4329.8
70°	844.5	744.3	646.5	553.5	484.3	448.5	443.7	741.9	1417.0	2244.8	2554.9
72.5°	665.6	594.0	515.3	446.1	400.8	348.3	317.3	307.7	479.5	913.7	1262.0
75°	477.1	417.5	372.1	326.8	293.4	264.8	240.9	219.5	200.4	229.0	314.9
77.5°	300.6	279.1	243.3	231.4	212.3	205.2	195.6	183.7	169.4	159.8	159.8
80°	202.8	188.5	176.5	174.1	167.0	164.6	167.0	155.1	140.7	128.8	133.6
82.5°	136.0	133.6	131.2	128.8	131.2	133.6	138.4	136.0	124.0	116.9	119.3
85°	81.1	85.9	90.7	95.4	105.0	93.0	76.3	64.4	57.3	52.5	50.1
87.5°	31.0	42.9	38.2	35.8	38.2	35.8	33.4	31.0	26.2	23.9	23.9
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: P529512

CATALOG NUMBER: GALN-SA4C-830-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6	7304.6
2.5°	7898.6	7946.3	7986.9	7977.3	7893.8	7781.7	7736.4	7505.0	7457.3	7426.3
5°	8006.0	8282.7	8342.3	8306.5	8089.5	7815.1	7547.9	7209.2	7011.2	7004.0
7.5°	7808.0	8149.1	8256.4	8337.6	8048.9	7571.8	7113.8	6605.6	6481.6	6491.1
10°	7304.6	7848.5	8113.3	8196.8	7865.2	7452.5	6817.9	6302.7	6037.9	6033.1
12.5°	7025.5	7452.5	7526.5	7643.4	7545.5	7128.1	6646.2	6068.9	5811.2	5806.5
15°	6777.4	7058.9	7080.4	7245.0	7297.4	7016.0	6691.5	6076.0	5868.5	5847.0
17.5°	6994.5	6798.9	6717.8	6739.2	6894.3	6996.9	6953.9	6481.6	6269.3	6150.0
20°	7140.0	6703.4	6457.7	6481.6	6665.3	7039.8	7345.2	7068.4	6732.1	6746.4
22.5°	7528.8	6717.8	6333.7	6307.4	6598.5	7264.1	7786.5	7810.3	7485.9	7407.2
25°	8110.9	6882.4	6295.5	6288.4	6567.5	7505.0	8301.8	8688.2	8356.6	8211.1
27.5°	8578.5	7140.0	6414.8	6438.6	6665.3	7700.6	8740.7	9253.6	9000.7	8821.8
30°	8988.8	7407.2	6581.8	6472.0	6927.7	7803.2	8929.2	9897.7	9694.9	9547.0
32.5°	9158.2	7786.5	6846.6	6665.3	7144.8	7927.2	9320.4	10522.7	10348.6	9983.6
35°	9444.5	7998.8	6989.7	6975.4	7524.1	8225.4	9504.1	10935.4	10863.9	10539.4
37.5°	9673.5	8213.5	7497.8	7340.4	8044.1	8726.4	9799.9	11505.6	11341.0	11188.3
40°	9850.0	8597.6	7972.6	8180.1	8683.5	9182.0	10071.9	11541.4	12016.1	11572.4
42.5°	9687.8	8941.1	8752.6	9248.8	9726.0	9702.1	10102.9	11818.1	12173.5	11942.1
45°	9647.2	9523.2	9986.0	10436.9	10546.6	10133.9	9881.0	11512.7	12125.8	12023.3
47.5°	9549.4	10095.7	10902.0	11636.8	11469.8	10422.5	9616.2	11457.9	12154.5	11970.8
50°	9516.0	10219.8	11579.5	12295.2	12195.0	10673.0	9492.2	11104.8	11951.7	11935.0
52.5°	9513.6	10475.0	11861.0	12653.0	12715.1	11069.0	9661.5	11283.7	12109.1	12249.9
55°	9621.0	10393.9	11825.3	12455.0	12431.2	10892.5	9680.6	11403.0	12302.4	12440.7
57.5°	9074.7	9310.9	9759.4	10257.9	10129.1	9022.2	8645.3	10541.8	11290.9	11190.7
60°	7836.6	7097.1	6591.3	6567.5	6317.0	5971.1	7075.6	9408.7	9408.7	9310.9
62.5°	6863.3	4659.0	4003.0	3816.9	3995.8	4394.2	6825.1	9151.0	8891.0	8778.9
65°	6002.1	3556.9	2893.7	2841.2	3151.3	3752.5	6171.5	7796.0	7338.0	6965.9
67.5°	3862.2	2605.0	2151.8	2058.7	2433.3	2755.3	4107.9	4795.0	4506.3	4360.8
70°	2490.5	1696.1	1197.6	1123.6	1269.1	1698.5	2624.1	2795.9	2376.0	2278.2
72.5°	1178.5	732.4	419.9	345.9	388.8	648.9	1037.7	1116.4	928.0	849.3
75°	374.5	269.6	171.8	147.9	140.7	167.0	238.6	183.7	133.6	131.2
77.5°	167.0	159.8	136.0	114.5	100.2	83.5	69.2	57.3	59.6	62.0
80°	138.4	126.4	112.1	100.2	83.5	64.4	50.1	38.2	38.2	40.6
82.5°	121.7	109.7	97.8	83.5	71.6	52.5	38.2	26.2	23.9	23.9
85°	52.5	62.0	66.8	71.6	57.3	42.9	26.2	16.7	14.3	14.3
87.5°	21.5	19.1	16.7	14.3	11.9	11.9	9.5	7.2	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)