

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: P530214

Luminaire Tested: **GALN-SA5B-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530214
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-SA5B-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA 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: 16865 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 204
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



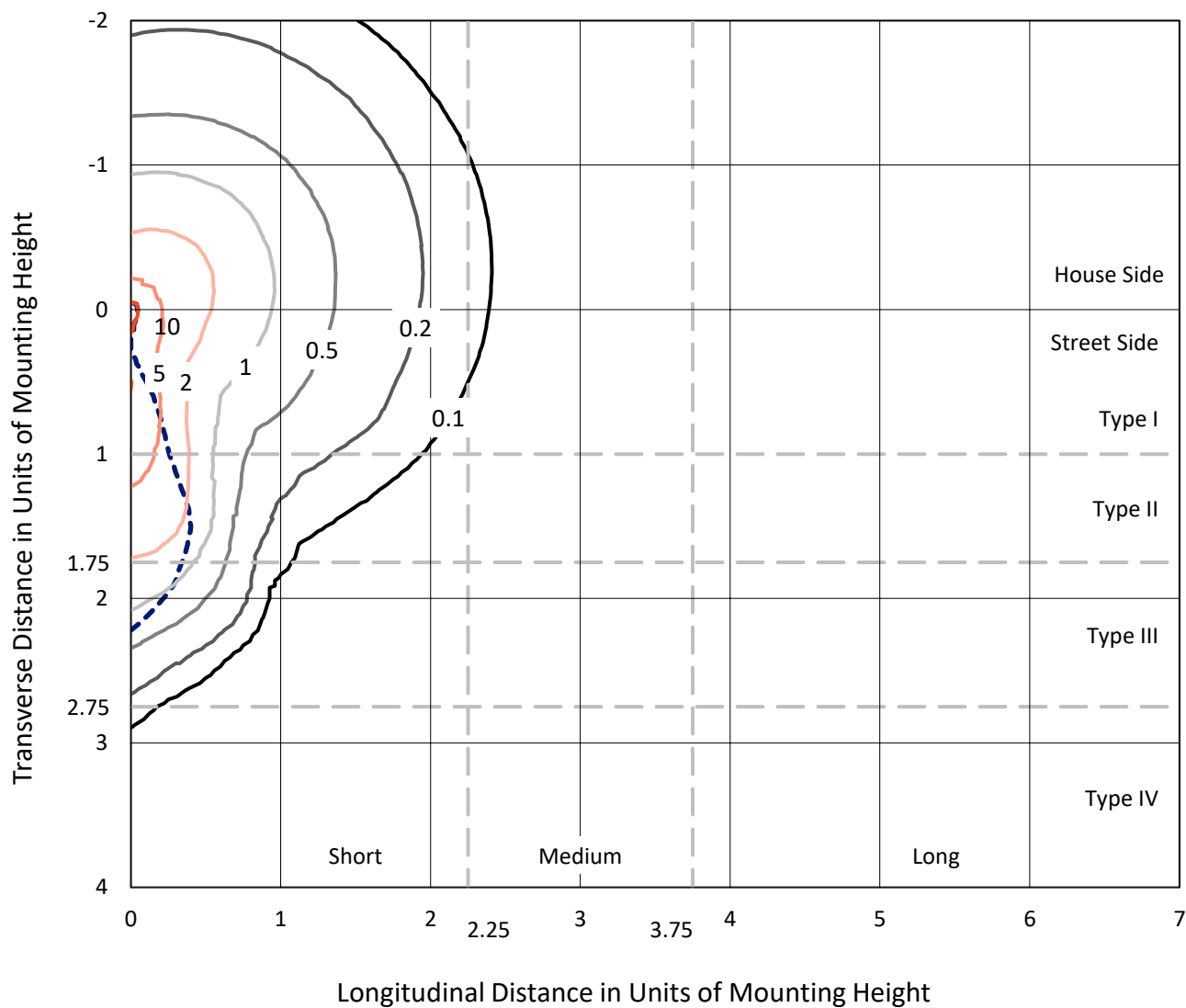
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CATALOG NUMBER: GALN-SA5B-830-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

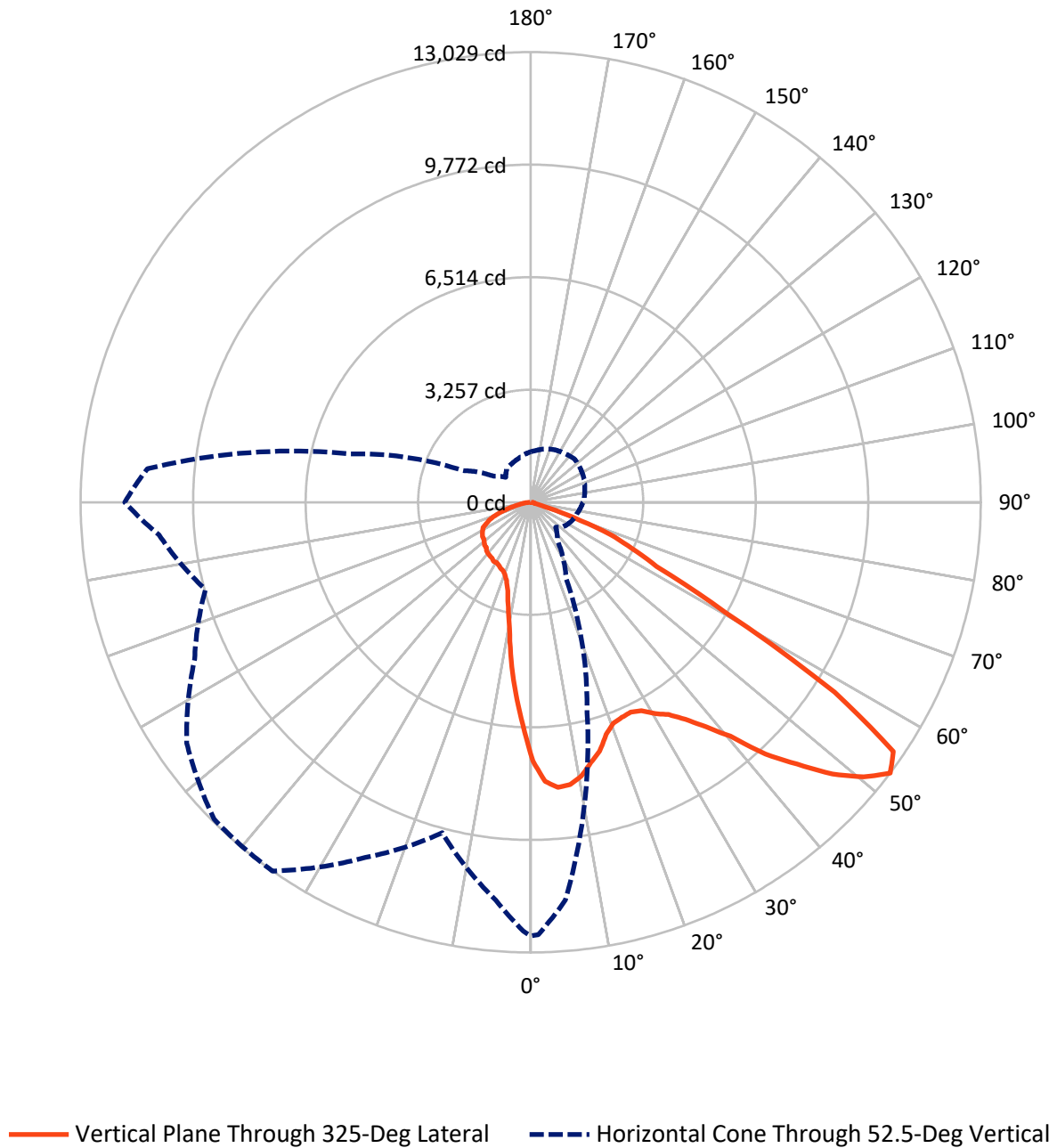


Based on 25 foot mounting height. Maximum calculated value = 12 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5084.1	0.0	5084.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	11780.9	0.0	11780.9
	% Fixture	69.9	0.0	69.9
Total	Lumens	16865.0	0.0	16865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.0	3.4
10°-20°	1237.9	7.3
20°-30°	1870.4	11.1
30°-40°	2702.7	16.0
40°-50°	3596.9	21.3
50°-60°	4023.2	23.9
60°-70°	2267.5	13.4
70°-80°	505.4	3.0
80°-90°	90.0	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°	16865.0	100.0
0°-180°	16865.0	100.0

Coefficient of Utilization



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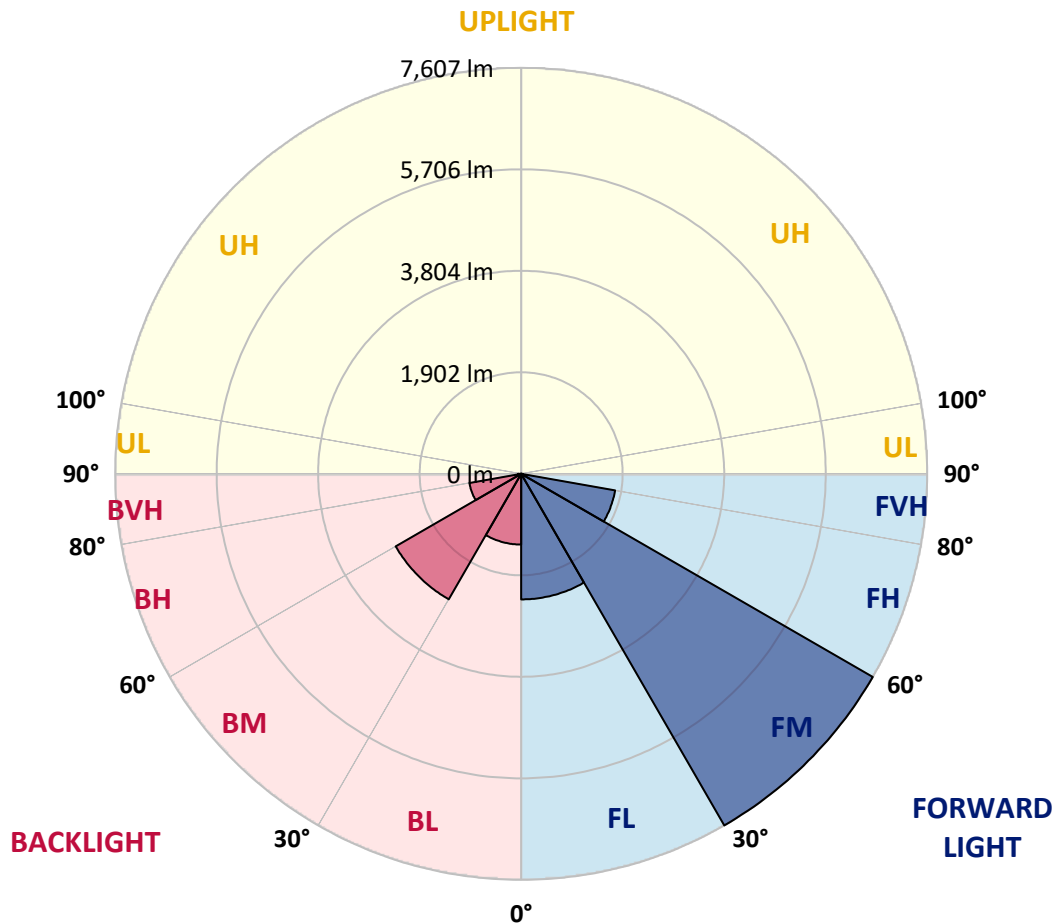
CATALOG NUMBER: GALN-SA5B-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2353.5	14.0			
FM	(30°-60°)	7607.4	45.1			
FH	(60°-80°)	1787.4	10.6			G1/1800
FVH	(80°-90°)	32.6	0.2			G1/100
BL	(0°-30°)	1325.8	7.9	B3/2500		
BM	(30°-60°)	2715.4	16.1	B3/5000		
BH	(60°-80°)	985.5	5.8	B2/1000		G2/1000
BVH	(80°-90°)	57.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8
2.5°	7609.5	7731.7	7599.7	7365.0	7198.8	7047.2	6888.4	6856.6	6648.8	6612.1	6460.6
5°	7176.8	7149.9	6988.6	6680.6	6340.8	6032.8	5805.5	5585.5	5436.4	5262.8	5250.6
7.5°	6651.2	6494.8	6401.9	5935.0	5514.6	5030.6	4822.8	4487.9	4382.8	4226.4	4145.7
10°	6181.9	6067.0	5849.5	5382.6	4795.9	4475.7	4253.3	4072.4	3950.2	3788.8	3586.0
12.5°	5949.7	5903.3	5658.8	4935.3	4500.2	4157.9	4001.5	3825.5	3617.7	3358.6	3258.4
15°	5991.3	5834.8	5649.0	4849.7	4248.4	3918.4	3669.1	3449.1	3182.6	2935.7	2791.5
17.5°	6301.7	6181.9	5810.4	4903.5	4153.1	3676.4	3224.2	2899.1	2659.5	2437.1	2336.9
20°	6912.8	6739.2	6321.3	4971.9	3947.7	3339.1	2820.9	2420.0	2163.3	2046.0	2011.8
22.5°	7589.9	7487.2	6819.9	5125.9	3784.0	3026.2	2393.1	1992.2	1896.9	1865.1	1928.6
25°	8413.7	8147.2	7594.8	5377.7	3656.8	2759.7	2031.3	1808.9	1760.0	1791.8	1865.1
27.5°	9039.4	8968.5	8137.4	5614.8	3483.3	2439.5	1828.4	1681.8	1696.4	1728.2	1796.6
30°	9782.5	9423.2	8663.0	5778.6	3326.8	2219.5	1686.6	1647.5	1662.2	1716.0	1750.2
32.5°	10229.9	10095.4	8993.0	6025.5	3146.0	2028.9	1576.6	1540.0	1562.0	1642.6	1723.3
35°	10799.4	10533.0	9401.2	6089.0	3018.8	1953.1	1498.4	1471.5	1522.9	1579.1	1669.5
37.5°	11464.3	11281.0	9965.9	6045.0	2950.4	1874.9	1432.4	1420.2	1456.9	1535.1	1640.2
40°	11857.8	11801.6	10261.6	6071.9	2842.9	1806.4	1356.6	1371.3	1447.1	1508.2	1610.9
42.5°	12236.7	11870.1	10699.2	6062.1	2774.4	1713.5	1364.0	1346.9	1405.5	1476.4	1574.2
45°	12319.8	11955.6	10801.9	5993.7	2691.3	1623.1	1307.8	1315.1	1386.0	1474.0	1537.5
47.5°	12266.1	11997.2	10992.5	5974.1	2613.1	1559.5	1224.7	1312.6	1354.2	1425.1	1515.5
50°	12229.4	12214.7	11153.9	6067.0	2508.0	1459.3	1124.4	1280.9	1322.4	1393.3	1491.1
52.5°	12552.1	12520.3	11557.2	6311.5	2424.9	1351.8	1021.8	1200.2	1300.4	1368.9	1464.2
55°	12747.6	12608.3	12249.0	6612.1	2285.5	1210.0	950.9	1100.0	1246.7	1307.8	1405.5
57.5°	11466.7	11371.4	11080.5	6172.1	2050.9	1024.2	862.9	997.3	1173.3	1268.7	1368.9
60°	9540.5	9391.4	8645.9	5245.7	1513.1	796.9	809.1	916.7	1153.8	1190.4	1307.8
62.5°	8995.4	8626.3	7611.9	4221.5	1161.1	684.4	726.0	843.3	1051.1	1112.2	1229.5
65°	7137.7	6863.9	5446.2	3048.2	777.3	594.0	662.4	760.2	906.9	1026.7	1134.2
67.5°	4468.4	4206.8	2906.4	1442.2	542.7	508.4	591.5	694.2	814.0	921.5	1041.3
70°	2334.4	2048.4	1342.0	520.7	374.0	415.6	493.8	591.5	708.9	796.9	889.8
72.5°	870.2	706.4	437.5	224.9	259.1	317.8	400.9	471.8	554.9	662.4	713.8
75°	134.4	114.9	112.4	136.9	176.0	229.8	286.0	356.9	430.2	498.7	532.9
77.5°	63.6	61.1	68.4	90.4	117.3	163.8	207.8	276.2	334.9	378.9	398.4
80°	41.6	39.1	44.0	61.1	88.0	122.2	166.2	212.7	266.4	303.1	298.2
82.5°	24.4	26.9	26.9	41.6	61.1	88.0	119.8	161.3	198.0	229.8	210.2
85°	14.7	12.2	12.2	24.4	41.6	70.9	100.2	68.4	70.9	70.9	80.7
87.5°	4.9	4.9	4.9	2.4	4.9	4.9	7.3	12.2	14.7	17.1	22.0
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°	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8
2.5°	6455.7	6531.5	6504.6	6409.2	6482.6	6494.8	6445.9	6614.6	6646.4	6595.0	6609.7
5°	5233.5	5253.0	5297.0	5389.9	5455.9	5534.1	5534.1	5539.0	5473.0	5639.3	5590.4
7.5°	4077.3	4089.5	4140.8	4338.8	4395.1	4544.2	4607.7	4563.7	4431.7	4375.5	4421.9
10°	3520.0	3449.1	3432.0	3456.4	3583.5	3647.1	3700.8	3686.2	3664.2	3620.2	3571.3
12.5°	3148.4	3097.1	3055.5	2996.8	3004.2	3065.3	3106.8	3072.6	3082.4	3092.2	3106.8
15°	2745.1	2708.4	2686.4	2598.4	2588.6	2630.2	2644.9	2664.4	2701.1	2703.5	2686.4
17.5°	2317.3	2285.5	2334.4	2383.3	2349.1	2351.5	2378.4	2395.5	2385.7	2341.7	2319.7
20°	2024.0	2058.2	2107.1	2153.5	2190.2	2212.2	2222.0	2195.1	2163.3	2072.9	2070.4
22.5°	1938.4	1982.4	2024.0	2094.9	2129.1	2185.3	2134.0	2072.9	2028.9	1984.9	1933.5
25°	1874.9	1911.5	1994.6	2021.5	2087.5	2134.0	2097.3	2036.2	1960.4	1896.9	1857.8
27.5°	1828.4	1870.0	1923.8	1997.1	2048.4	2075.3	2038.6	2014.2	1936.0	1860.2	1804.0
30°	1799.1	1843.1	1940.9	2002.0	2046.0	2068.0	2004.4	1975.1	1918.9	1855.3	1806.4
32.5°	1779.5	1818.6	1901.8	1980.0	2009.3	2009.3	2019.1	1984.9	1906.6	1799.1	1757.5
35°	1716.0	1769.8	1838.2	1928.6	1982.4	2014.2	1965.3	1926.2	1874.9	1764.9	1689.1
37.5°	1679.3	1716.0	1804.0	1889.5	1936.0	1970.2	1950.6	1882.2	1813.8	1723.3	1662.2
40°	1640.2	1698.9	1777.1	1857.8	1909.1	1943.3	1928.6	1848.0	1764.9	1679.3	1637.8
42.5°	1613.3	1652.4	1733.1	1823.5	1884.6	1950.6	1906.6	1806.4	1747.8	1630.4	1584.0
45°	1591.3	1654.9	1740.4	1777.1	1840.6	1909.1	1830.9	1769.8	1701.3	1615.8	1576.6
47.5°	1564.4	1623.1	1679.3	1777.1	1806.4	1838.2	1823.5	1725.8	1667.1	1574.2	1547.3
50°	1554.6	1576.6	1679.3	1733.1	1774.6	1806.4	1767.3	1694.0	1637.8	1542.4	1483.8
52.5°	1515.5	1557.1	1623.1	1694.0	1745.3	1784.4	1720.9	1674.4	1598.6	1498.4	1461.8
55°	1466.6	1491.1	1608.4	1681.8	1708.6	1735.5	1711.1	1635.3	1557.1	1454.4	1417.8
57.5°	1403.1	1459.3	1554.6	1657.3	1691.5	1706.2	1667.1	1606.0	1508.2	1417.8	1359.1
60°	1337.1	1395.8	1500.9	1584.0	1618.2	1672.0	1613.3	1576.6	1464.2	1364.0	1300.4
62.5°	1271.1	1337.1	1415.3	1520.4	1549.8	1571.8	1557.1	1505.8	1415.3	1302.9	1224.7
65°	1192.9	1241.8	1339.5	1393.3	1412.9	1464.2	1412.9	1393.3	1312.6	1205.1	1139.1
67.5°	1075.5	1117.1	1202.7	1254.0	1268.7	1290.6	1288.2	1266.2	1175.8	1102.4	1043.8
70°	941.1	977.8	1031.5	1092.7	1100.0	1126.9	1102.4	1097.5	1038.9	938.7	906.9
72.5°	755.3	789.5	860.4	887.3	889.8	899.5	887.3	870.2	855.5	750.4	718.7
75°	579.3	598.9	633.1	657.5	657.5	669.8	662.4	645.3	606.2	540.2	508.4
77.5°	403.3	422.9	466.9	481.5	479.1	484.0	462.0	444.9	386.2	352.0	325.1
80°	293.3	305.6	327.6	337.3	339.8	347.1	320.2	305.6	271.3	232.2	220.0
82.5°	212.7	220.0	222.4	234.7	234.7	222.4	215.1	200.4	176.0	151.6	141.8
85°	88.0	90.4	92.9	107.6	110.0	132.0	122.2	114.9	100.2	85.6	78.2
87.5°	22.0	24.4	31.8	26.9	31.8	31.8	34.2	39.1	39.1	31.8	31.8
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°	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8
2.5°	6665.9	6685.5	6934.8	6966.6	7088.8	7213.5	7465.2	7646.1	7792.8	7888.1	7915.0
5°	5641.7	5766.4	5881.3	6067.0	6235.7	6475.2	6751.5	7093.7	7523.9	7743.9	7831.9
7.5°	4417.1	4563.7	4729.9	4910.8	5157.7	5587.9	5957.0	6353.0	6903.0	7130.4	7475.0
10°	3605.5	3769.3	3989.3	4128.6	4426.8	4837.5	5267.7	5724.8	6250.4	6577.9	6976.4
12.5°	3187.5	3322.0	3524.8	3818.2	4040.6	4307.1	4627.3	5204.2	5957.0	6267.5	6541.2
15°	2725.5	2874.6	3109.3	3434.4	3700.8	4018.6	4377.9	5006.2	5807.9	6287.0	6519.2
17.5°	2344.2	2451.7	2698.6	2979.7	3285.3	3632.4	4148.2	4996.4	5964.4	6577.9	6956.8
20°	2080.2	2094.9	2229.3	2468.9	2884.4	3336.6	4006.4	4947.5	6465.5	7079.0	7558.1
22.5°	1914.0	1899.3	1901.8	2104.6	2395.5	3045.7	3784.0	5113.7	7035.0	7875.9	8198.6
25°	1830.9	1791.8	1767.3	1811.3	2075.3	2701.1	3615.3	5333.7	7648.6	8533.4	8929.4
27.5°	1786.9	1718.4	1669.5	1676.9	1870.0	2527.5	3510.2	5429.0	8257.2	9450.1	9589.4
30°	1769.8	1684.2	1613.3	1588.9	1716.0	2285.5	3285.3	5592.8	8802.3	9953.6	10073.4
32.5°	1708.6	1603.5	1535.1	1513.1	1564.4	2072.9	3124.0	5710.1	9283.9	10501.2	10459.6
35°	1637.8	1549.8	1464.2	1422.6	1459.3	1936.0	2994.4	5653.9	9851.0	10926.5	10904.5
37.5°	1630.4	1515.5	1444.6	1376.2	1373.8	1767.3	2818.4	5707.7	10212.8	11689.2	11388.5
40°	1566.9	1493.5	1400.6	1344.4	1312.6	1681.8	2647.3	5580.6	10743.2	11997.2	11701.4
42.5°	1569.3	1459.3	1378.6	1312.6	1280.9	1557.1	2530.0	5546.4	10929.0	12498.3	11848.1
45°	1530.2	1422.6	1354.2	1276.0	1258.9	1461.8	2417.5	5387.5	11256.5	12522.7	11664.7
47.5°	1491.1	1395.8	1322.4	1229.5	1190.4	1427.5	2329.5	5255.5	11085.4	12292.9	11410.5
50°	1464.2	1354.2	1285.8	1219.8	1109.8	1368.9	2214.6	5223.7	10845.9	11982.5	10938.7
52.5°	1417.8	1320.0	1249.1	1197.8	1021.8	1315.1	2170.6	5409.5	11139.2	11750.3	10801.9
55°	1373.8	1273.5	1183.1	1082.9	948.4	1173.3	2048.4	5583.0	11567.0	12285.6	11422.7
57.5°	1327.3	1232.0	1134.2	1014.4	877.5	1026.7	1921.3	5614.8	10765.2	11354.3	10843.4
60°	1266.2	1144.0	1070.7	914.2	801.8	850.7	1522.9	4949.9	8350.1	9481.9	9499.0
62.5°	1197.8	1065.8	1002.2	818.9	723.5	733.3	1241.8	4160.4	6773.5	7849.0	8315.9
65°	1107.3	980.2	904.4	757.8	667.3	635.5	909.3	3048.2	5145.5	6367.7	6898.1
67.5°	990.0	870.2	774.9	660.0	596.4	545.1	620.9	1716.0	3038.4	4275.3	4436.6
70°	865.3	762.7	662.4	567.1	496.2	459.5	454.7	760.2	1452.0	2300.2	2618.0
72.5°	682.0	608.7	528.0	457.1	410.7	356.9	325.1	315.3	491.3	936.2	1293.1
75°	488.9	427.8	381.3	334.9	300.7	271.3	246.9	224.9	205.3	234.7	322.7
77.5°	308.0	286.0	249.3	237.1	217.6	210.2	200.4	188.2	173.6	163.8	163.8
80°	207.8	193.1	180.9	178.4	171.1	168.7	171.1	158.9	144.2	132.0	136.9
82.5°	139.3	136.9	134.4	132.0	134.4	136.9	141.8	139.3	127.1	119.8	122.2
85°	83.1	88.0	92.9	97.8	107.6	95.3	78.2	66.0	58.7	53.8	51.3
87.5°	31.8	44.0	39.1	36.7	39.1	36.7	34.2	31.8	26.9	24.4	24.4
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: P530214

CATALOG NUMBER: GALN-SA5B-830-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8
2.5°	8093.4	8142.3	8183.9	8174.1	8088.6	7973.7	7927.2	7690.1	7641.2	7609.5
5°	8203.4	8487.0	8548.1	8511.4	8289.0	8007.9	7734.1	7387.0	7184.1	7176.8
7.5°	8000.6	8350.1	8460.1	8543.2	8247.4	7758.6	7289.2	6768.6	6641.5	6651.2
10°	7484.8	8042.1	8313.4	8399.0	8059.2	7636.3	6986.1	6458.1	6186.8	6181.9
12.5°	7198.8	7636.3	7712.1	7831.9	7731.7	7303.9	6810.1	6218.6	5954.6	5949.7
15°	6944.6	7233.0	7255.0	7423.7	7477.5	7189.0	6856.6	6225.9	6013.3	5991.3
17.5°	7167.0	6966.6	6883.5	6905.5	7064.4	7169.5	7125.5	6641.5	6423.9	6301.7
20°	7316.1	6868.8	6617.0	6641.5	6829.7	7213.5	7526.3	7242.8	6898.1	6912.8
22.5°	7714.6	6883.5	6489.9	6463.0	6761.2	7443.2	7978.6	8003.0	7670.6	7589.9
25°	8311.0	7052.1	6450.8	6443.5	6729.5	7690.1	8506.6	8902.5	8562.8	8413.7
27.5°	8790.1	7316.1	6573.0	6597.5	6829.7	7890.6	8956.3	9481.9	9222.8	9039.4
30°	9210.5	7589.9	6744.1	6631.7	7098.6	7995.7	9149.4	10141.9	9934.1	9782.5
32.5°	9384.1	7978.6	7015.5	6829.7	7321.0	8122.8	9550.3	10782.3	10603.9	10229.9
35°	9677.4	8196.1	7162.1	7147.5	7709.7	8428.3	9738.5	11205.2	11131.9	10799.4
37.5°	9912.1	8416.1	7682.8	7521.5	8242.6	8941.7	10041.6	11789.4	11620.7	11464.3
40°	10093.0	8809.7	8169.2	8381.9	8897.7	9408.5	10320.3	11826.1	12312.5	11857.8
42.5°	9926.8	9161.7	8968.5	9477.0	9965.9	9941.4	10352.1	12109.6	12473.8	12236.7
45°	9885.2	9758.1	10232.3	10694.3	10806.7	10383.9	10124.8	11796.7	12424.9	12319.8
47.5°	9785.0	10344.8	11171.0	11923.8	11752.7	10679.6	9853.4	11740.5	12454.3	12266.1
50°	9750.8	10471.9	11865.2	12598.5	12495.8	10936.3	9726.3	11378.7	12246.5	12229.4
52.5°	9748.3	10733.4	12153.6	12965.2	13028.7	11342.1	9899.9	11562.1	12407.8	12552.1
55°	9858.3	10650.3	12117.0	12762.3	12737.8	11161.2	9919.4	11684.3	12605.8	12747.6
57.5°	9298.5	9540.5	10000.1	10511.0	10379.0	9244.8	8858.6	10801.9	11569.4	11466.7
60°	8029.9	7272.1	6753.9	6729.5	6472.8	6118.4	7250.1	9640.8	9640.8	9540.5
62.5°	7032.6	4773.9	4101.7	3911.1	4094.4	4502.6	6993.5	9376.8	9110.3	8995.4
65°	6150.1	3644.6	2965.1	2911.3	3229.1	3845.1	6323.7	7988.3	7519.0	7137.7
67.5°	3957.5	2669.3	2204.9	2109.5	2493.3	2823.3	4209.3	4913.3	4617.5	4468.4
70°	2552.0	1738.0	1227.1	1151.3	1300.4	1740.4	2688.9	2864.9	2434.6	2334.4
72.5°	1207.5	750.4	430.2	354.4	398.4	664.9	1063.3	1144.0	950.9	870.2
75°	383.8	276.2	176.0	151.6	144.2	171.1	244.4	188.2	136.9	134.4
77.5°	171.1	163.8	139.3	117.3	102.7	85.6	70.9	58.7	61.1	63.6
80°	141.8	129.6	114.9	102.7	85.6	66.0	51.3	39.1	39.1	41.6
82.5°	124.7	112.4	100.2	85.6	73.3	53.8	39.1	26.9	24.4	24.4
85°	53.8	63.6	68.4	73.3	58.7	44.0	26.9	17.1	14.7	14.7
87.5°	22.0	19.6	17.1	14.7	12.2	12.2	9.8	7.3	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)