

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: P530238

Luminaire Tested: **GALN-SA5C-722-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530238
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-SA5C-722-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 1050mA 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: 19276 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

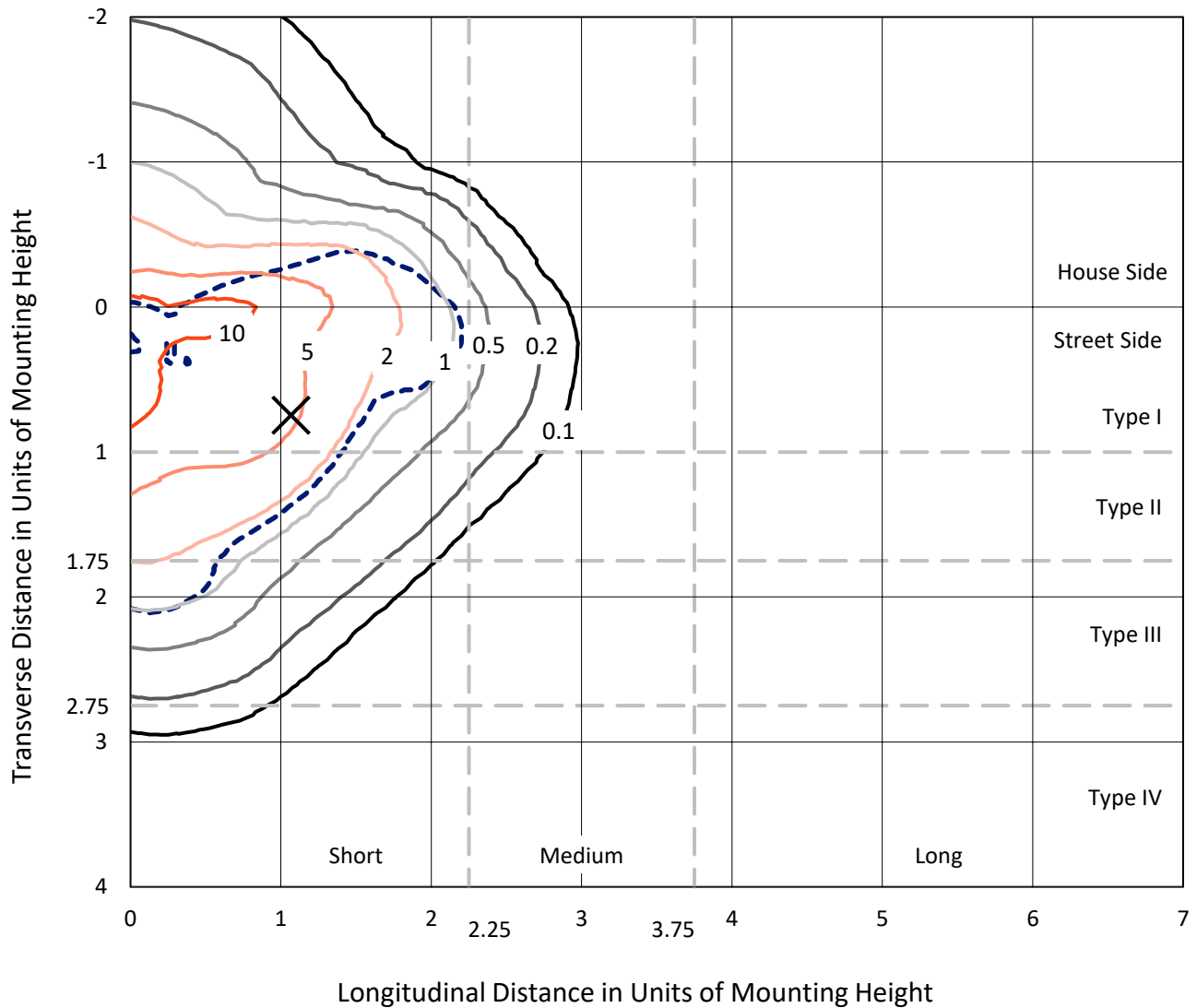
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

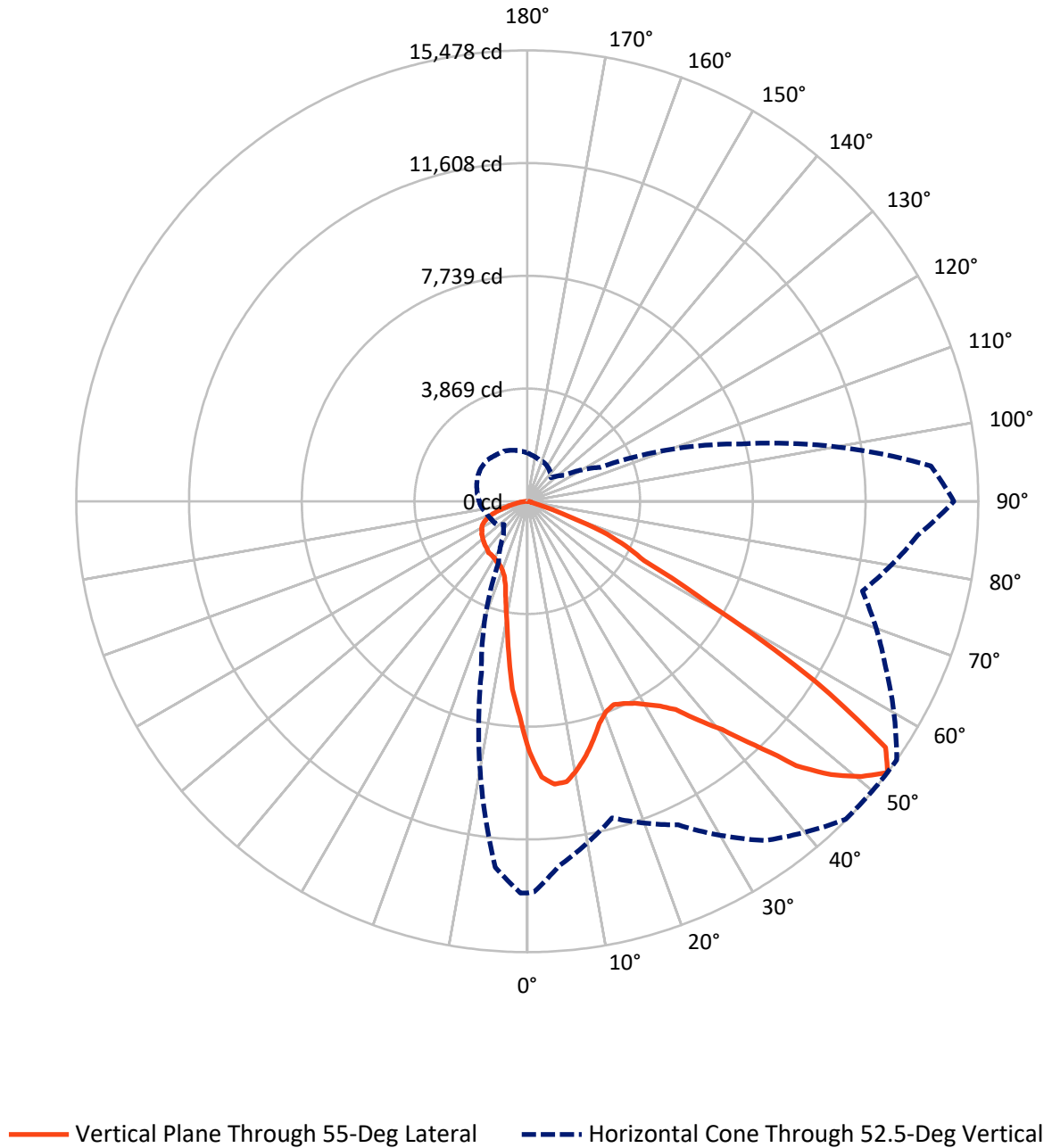
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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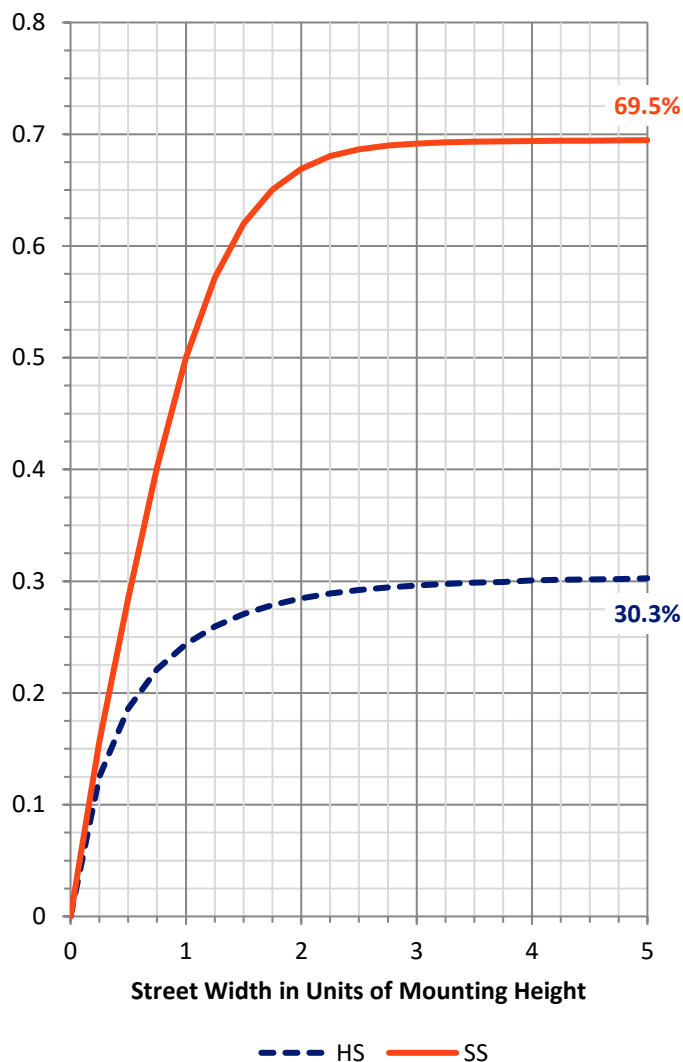
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5880.2	0.0	5880.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	13395.8	0.0	13395.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	19276.0	0.0	19276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.9	3.4
10°-20°	1416.4	7.3
20°-30°	2147.7	11.1
30°-40°	3103.1	16.1
40°-50°	4146.6	21.5
50°-60°	4628.5	24.0
60°-70°	2539.0	13.2
70°-80°	548.9	2.8
80°-90°	88.8	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°	19276.0	100.0
0°-180°	19276.0	100.0

Coefficient of Utilization



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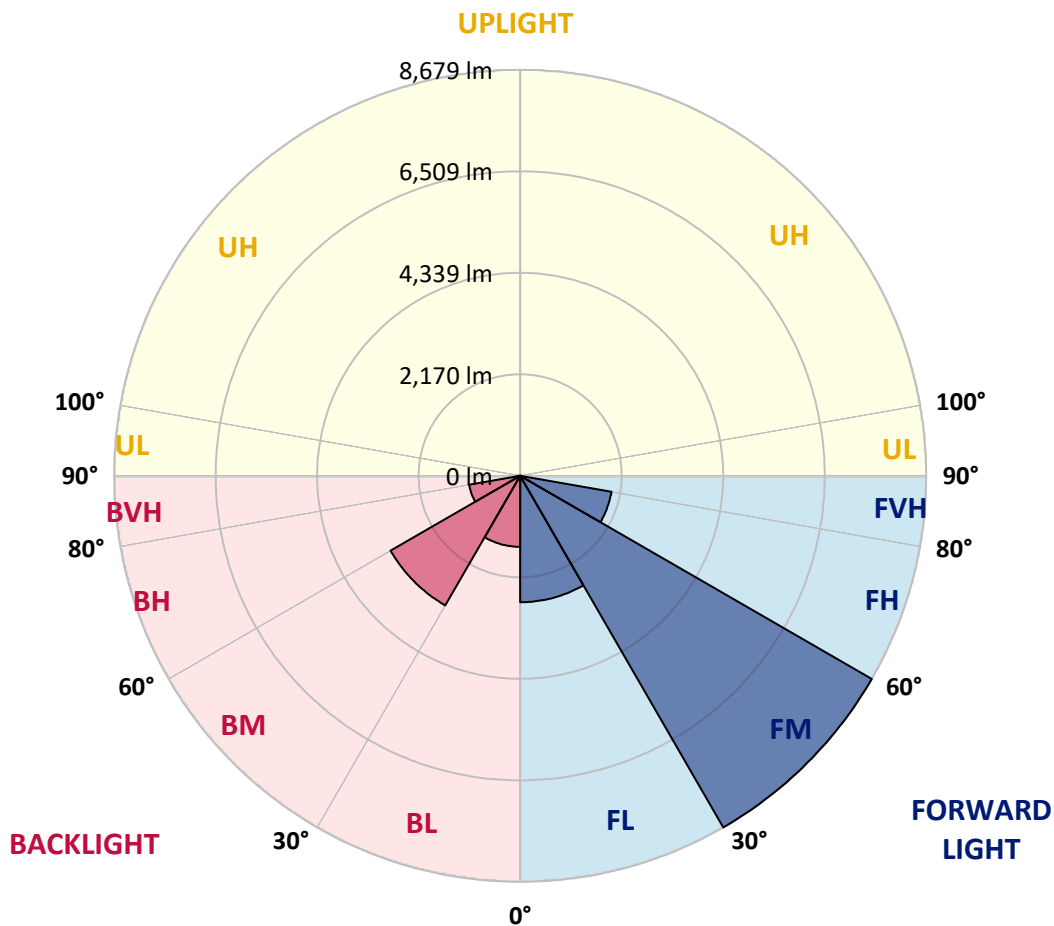
CATALOG NUMBER: GALN-SA5C-722-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2702.8	14.0			
FM (30°-60°)	8679.0	45.0			
FH (60°-80°)	1981.1	10.3			G2/5000
FVH (80°-90°)	32.9	0.2			G1/100
BL (0°-30°)	1518.2	7.9	B3/2500		
BM (30°-60°)	3199.3	16.6	B3/5000		
BH (60°-80°)	1106.8	5.7	B3/2500		G3/2500
BVH (80°-90°)	55.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6
2.5°	9023.6	8972.9	9018.0	9231.9	9355.7	9440.2	9493.6	9485.2	9282.5	9085.5	9085.5
5°	8759.0	8694.3	8787.2	9271.3	9758.2	9800.4	9870.8	9755.4	9457.0	9096.8	8646.4
7.5°	7993.4	8041.3	8196.1	8832.2	9465.5	9783.5	9868.0	9721.6	9237.5	8564.8	7903.4
10°	7332.0	7444.6	7802.1	8488.8	9071.4	9485.2	9578.1	9372.6	8989.8	8165.1	7574.1
12.5°	7104.0	7033.7	7430.5	8117.3	8674.6	8896.9	8939.2	8953.2	8694.3	7962.5	7242.0
15°	7075.9	7120.9	7430.5	7951.2	8294.6	8305.9	8376.2	8486.0	8519.8	8100.4	7396.8
17.5°	7481.2	7427.7	7745.8	8159.5	7996.3	7833.0	7849.9	8007.5	8286.2	8218.6	7883.7
20°	8080.7	8201.7	8452.2	8410.0	7970.9	7557.2	7560.0	7709.2	8258.0	8708.4	8562.0
22.5°	9077.1	9195.3	9381.0	8871.6	7970.9	7475.6	7379.9	7582.5	8438.2	9291.0	9327.6
25°	9986.2	10202.9	10253.6	9654.1	8370.6	7551.6	7489.6	7689.5	8618.3	9859.5	10205.7
27.5°	10813.7	10892.5	11114.8	10157.9	8593.0	7602.2	7596.6	7852.7	8846.3	10143.8	10991.0
30°	11466.7	11458.2	11584.9	10475.9	8947.6	7886.5	7613.5	8097.6	9144.6	10613.8	11717.2
32.5°	11911.4	12007.1	12274.4	10917.8	9096.8	8156.7	7942.8	8384.7	9507.7	10836.2	12229.4
35°	12693.8	12859.9	12522.1	11162.7	9569.6	8424.1	8173.6	8775.9	9687.8	11078.2	12857.1
37.5°	13431.2	13304.6	12961.2	11295.0	9876.4	8919.5	8685.8	9533.0	10247.9	11604.6	13273.6
40°	13904.1	13901.3	13290.5	11401.9	10093.1	9676.6	9662.5	10301.4	10934.7	11936.7	13740.9
42.5°	14109.6	14306.6	13425.6	11390.7	10549.1	10594.1	10878.4	11449.8	11421.6	12004.2	13729.6
44°	14391.0	14509.2	13659.2	11416.0	10853.1	11213.3	11883.2	12246.3	11846.6	11967.7	13715.5
45°	14379.8	14388.2	13327.1	11449.8	11112.0	11731.2	12330.7	12944.3	12221.0	11888.8	13901.3
47.5°	14050.5	13954.8	13045.6	11199.3	11919.8	13099.1	13653.6	14025.1	12682.6	11720.0	13670.5
50°	13400.3	13290.5	12361.7	11092.3	12088.7	13949.1	14714.7	14849.8	13101.9	11553.9	13442.5
52.5°	13445.3	13414.4	12555.9	11252.7	12257.6	14216.5	15443.7	15477.5	13577.6	11902.9	13445.3
55°	14250.3	14143.3	13113.2	11452.6	12133.7	13904.1	14979.3	14920.2	13417.2	11691.8	13693.0
57.5°	13040.0	13110.4	12342.0	10661.7	10619.5	11303.4	11776.3	11629.9	11196.5	10551.9	12738.9
60°	10521.0	10720.8	10794.0	8916.6	8013.2	7661.3	7520.6	7261.7	7334.8	8669.0	11190.8
62.5°	9023.6	9012.3	9471.1	8083.5	5249.2	4514.6	4447.1	4506.2	5350.5	8533.9	10960.0
65°	7154.7	7346.1	7486.8	6850.7	4154.3	3352.2	3349.4	3723.7	4630.0	7132.2	8849.1
67.5°	4542.8	4793.3	4967.8	4382.3	2778.0	2386.8	2322.0	2772.4	3208.6	4677.9	5328.0
70°	2561.3	2679.5	2758.3	2527.5	1767.6	1238.4	1165.2	1272.2	1939.3	3028.5	3158.0
72.5°	987.9	1041.4	1148.4	1156.8	667.1	399.7	323.7	388.4	816.2	1199.0	1142.7
75°	152.0	163.2	230.8	275.8	191.4	146.4	154.8	160.4	228.0	309.6	258.9
77.5°	73.2	73.2	70.4	81.6	95.7	104.1	112.6	123.8	135.1	149.2	143.5
80°	47.8	47.8	47.8	56.3	70.4	84.4	95.7	101.3	107.0	118.2	112.6
82.5°	31.0	31.0	31.0	42.2	56.3	70.4	76.0	90.1	101.3	118.2	109.8
85°	16.9	16.9	16.9	28.1	42.2	59.1	56.3	45.0	25.3	2.8	5.6
87.5°	5.6	5.6	5.6	5.6	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°	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6
2.5°	8849.1	8719.6	8708.4	8443.8	8207.4	8092.0	7999.1	7740.1	7796.4	7647.3	7644.4
5°	8421.3	8156.7	7728.9	7377.1	7025.2	6954.9	6648.1	6380.7	6389.1	6197.7	6231.5
7.5°	7652.9	7469.9	6949.2	6397.6	5930.4	5598.2	5308.3	5133.8	4911.5	4835.5	4796.1
10°	7166.0	6940.8	6355.4	5663.0	5139.5	4962.1	4683.5	4528.7	4300.7	4188.1	4109.3
12.5°	6952.0	6622.7	5890.9	5187.3	4838.3	4655.3	4418.9	4137.5	3867.3	3763.1	3619.6
15°	6974.6	6580.5	5755.8	4995.9	4576.5	4221.9	4010.8	3698.4	3422.5	3239.6	3135.5
17.5°	7315.1	6836.7	5817.8	4849.5	4247.2	3802.5	3388.8	3051.0	2831.5	2693.6	2659.8
20°	8120.1	7469.9	5921.9	4613.1	3917.9	3363.4	2854.0	2502.2	2333.3	2330.5	2333.3
22.5°	8790.0	8145.4	6133.0	4472.4	3588.6	2800.5	2293.9	2181.3	2147.5	2217.9	2226.3
25°	9693.5	8905.4	6496.1	4399.2	3284.6	2386.8	2074.4	2032.1	2029.3	2119.4	2122.2
27.5°	10619.5	9569.6	6712.8	4185.3	2975.0	2172.9	1942.1	1933.6	1978.7	2074.4	2065.9
30°	11249.9	10126.9	7104.0	3929.2	2609.1	1984.3	1888.6	1899.9	1961.8	2035.0	2046.2
32.5°	11984.5	10675.8	7205.4	3788.4	2384.0	1826.7	1759.1	1784.5	1863.3	1978.7	2040.6
35°	12826.1	11064.2	7360.2	3597.1	2299.5	1705.6	1671.9	1700.0	1795.7	1871.7	1939.3
37.5°	13448.1	11750.9	7388.3	3447.9	2206.6	1638.1	1584.6	1677.5	1733.8	1840.7	1874.5
40°	13909.7	12249.1	7461.5	3355.0	2133.5	1550.8	1550.8	1612.8	1688.8	1787.3	1854.8
42.5°	14205.3	12612.2	7515.0	3270.6	1992.7	1525.5	1511.4	1573.4	1674.7	1770.4	1801.3
44°	14385.4	12767.0	7461.5	3191.8	1953.3	1494.5	1494.5	1548.0	1626.8	1739.4	1776.0
45°	14430.4	12961.2	7343.3	3188.9	1905.5	1458.0	1452.3	1553.7	1607.1	1745.0	1767.6
47.5°	14604.9	13200.4	7357.4	3098.9	1790.1	1370.7	1469.2	1514.3	1562.1	1683.1	1759.1
50°	14599.3	13349.6	7326.4	2966.6	1705.6	1272.2	1435.4	1486.1	1534.0	1657.8	1688.8
52.5°	14638.7	13906.9	7610.7	2755.5	1553.7	1145.5	1322.9	1435.4	1494.5	1598.7	1663.4
55°	14619.0	14225.0	7892.1	2597.9	1339.7	1069.5	1227.2	1359.4	1443.9	1553.7	1584.6
57.5°	13352.4	12572.8	7303.9	2302.3	1109.0	979.5	1092.1	1280.6	1387.6	1500.2	1539.6
60°	10909.4	9690.6	6023.2	1694.4	911.9	900.7	1016.1	1255.3	1300.3	1398.9	1466.4
62.5°	10081.9	8500.1	4776.4	1294.7	779.6	824.7	937.3	1134.3	1204.6	1325.7	1387.6
65°	7889.3	5646.1	2958.1	875.3	686.8	740.2	847.2	993.6	1109.0	1221.5	1294.7
67.5°	4672.2	3084.8	1463.6	613.6	599.5	655.8	765.6	875.3	1007.6	1131.5	1168.1
70°	2544.4	1517.1	624.8	467.2	509.4	560.1	667.1	743.1	869.7	965.4	1027.3
72.5°	816.2	461.6	312.4	346.2	388.4	447.5	512.3	605.1	695.2	751.5	802.2
75°	197.0	194.2	222.4	242.1	281.5	326.5	380.0	427.8	498.2	551.7	596.7
77.5°	137.9	149.2	171.7	199.8	213.9	230.8	264.6	301.2	332.1	371.5	399.7
80°	107.0	115.4	132.3	146.4	160.4	174.5	191.4	205.5	225.2	250.5	264.6
82.5°	101.3	107.0	123.8	132.3	126.7	123.8	135.1	140.7	143.5	152.0	160.4
85°	8.4	0.0	5.6	19.7	47.8	70.4	76.0	76.0	73.2	78.8	78.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	11.3	8.4
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°	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6
2.5°	7610.7	7515.0	7551.6	7596.6	7531.9	7382.7	7422.1	7405.2	7557.2	7545.9	7697.9
5°	6380.7	6231.5	6248.4	6467.9	6397.6	6473.6	6321.6	6301.9	6330.0	6344.1	6369.4
7.5°	4883.3	4863.6	5032.5	5218.3	5305.5	5215.4	5066.3	5032.5	5001.5	4939.6	5080.3
10°	3985.5	3991.1	3979.8	4120.6	4219.1	4199.4	4109.3	4098.1	4038.9	4016.4	4095.2
12.5°	3557.6	3481.7	3445.1	3400.0	3476.0	3526.7	3487.3	3459.1	3462.0	3490.1	3501.4
15°	3143.9	3096.1	3017.2	2966.6	3003.2	2977.8	2963.8	3020.1	3006.0	3000.4	3067.9
17.5°	2679.5	2718.9	2713.3	2657.0	2704.8	2685.1	2682.3	2642.9	2589.4	2550.0	2572.5
20°	2372.7	2445.9	2502.2	2505.0	2530.3	2527.5	2485.3	2364.3	2324.9	2316.4	2322.0
22.5°	2262.9	2302.3	2369.9	2465.6	2465.6	2420.6	2369.9	2229.2	2192.6	2153.2	2136.3
25°	2175.7	2251.7	2338.9	2350.2	2395.2	2353.0	2271.4	2201.0	2125.0	2071.5	2071.5
27.5°	2130.6	2215.1	2279.8	2299.5	2361.4	2327.7	2243.2	2153.2	2063.1	2060.3	2012.4
30°	2110.9	2189.8	2232.0	2279.8	2308.0	2254.5	2229.2	2133.5	2043.4	2020.9	1942.1
32.5°	2051.8	2164.4	2243.2	2232.0	2254.5	2232.0	2195.4	2116.6	2015.2	1964.6	1956.1
35°	1984.3	2096.9	2181.3	2240.4	2254.5	2206.6	2184.1	2077.2	1939.3	1913.9	1826.7
37.5°	1947.7	2015.2	2119.4	2215.1	2234.8	2209.5	2133.5	2023.7	1885.8	1857.6	1781.6
40°	1902.7	1989.9	2071.5	2150.4	2209.5	2147.5	2060.3	1953.3	1891.4	1807.0	1784.5
42.5°	1868.9	1967.4	2035.0	2122.2	2189.8	2108.1	2006.8	1933.6	1846.4	1790.1	1725.3
44°	1857.6	1947.7	1992.7	2099.7	2156.0	2094.1	2009.6	1933.6	1832.3	1781.6	1725.3
45°	1818.2	1942.1	1989.9	2085.6	2133.5	2082.8	1975.8	1899.9	1826.7	1764.8	1705.6
47.5°	1778.8	1863.3	1944.9	2020.9	2054.7	2037.8	1947.7	1854.8	1767.6	1731.0	1674.7
50°	1767.6	1852.0	1928.0	1998.4	2037.8	2004.0	1922.4	1832.3	1731.0	1671.9	1624.0
52.5°	1711.3	1815.4	1899.9	1922.4	1973.0	1953.3	1891.4	1792.9	1697.2	1646.5	1607.1
55°	1629.7	1739.4	1854.8	1883.0	1956.1	1925.2	1832.3	1739.4	1657.8	1581.8	1531.1
57.5°	1598.7	1705.6	1818.2	1854.8	1899.9	1849.2	1826.7	1728.2	1598.7	1559.3	1480.5
60°	1519.9	1655.0	1747.9	1832.3	1835.1	1821.0	1781.6	1669.1	1562.1	1488.9	1432.6
62.5°	1458.0	1584.6	1657.8	1736.6	1784.5	1745.0	1705.6	1601.5	1486.1	1404.5	1339.7
65°	1367.9	1483.3	1545.2	1593.1	1646.5	1640.9	1573.4	1497.4	1376.3	1311.6	1249.7
67.5°	1230.0	1331.3	1415.7	1460.8	1494.5	1486.1	1435.4	1382.0	1258.1	1193.4	1148.4
70°	1063.9	1168.1	1221.5	1246.9	1280.6	1297.5	1258.1	1232.8	1123.0	1038.6	996.4
72.5°	855.6	923.2	1002.0	1024.5	1038.6	1049.8	1049.8	1027.3	914.7	881.0	807.8
75°	630.5	683.9	743.1	743.1	768.4	771.2	776.8	762.8	678.3	633.3	616.4
77.5°	427.8	467.2	515.1	534.8	551.7	548.8	546.0	506.6	461.6	441.9	425.0
80°	278.6	318.0	340.6	365.9	382.8	380.0	385.6	357.5	337.8	304.0	309.6
82.5°	166.1	197.0	219.5	250.5	250.5	258.9	258.9	250.5	230.8	213.9	213.9
85°	78.8	104.1	118.2	137.9	149.2	152.0	135.1	115.4	95.7	87.3	95.7
87.5°	14.1	19.7	28.1	25.3	31.0	28.1	28.1	28.1	28.1	22.5	25.3
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: P530238

CATALOG NUMBER: GALN-SA5C-722-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6	8598.6
2.5°	7641.6	7782.4	7880.9	8044.1	8325.6	8550.7	8781.5	8953.2	8972.9	9023.6
5°	6462.3	6538.3	6788.8	7115.3	7346.1	7726.1	7970.9	8415.6	8581.7	8759.0
7.5°	5046.6	5170.4	5505.3	5724.9	6231.5	6707.2	7199.7	7748.6	7968.1	7993.4
10°	4255.7	4435.8	4663.8	5015.6	5291.4	5820.6	6434.2	7044.9	7289.8	7332.0
12.5°	3737.8	3968.6	4272.6	4525.9	4790.4	5252.0	5840.3	6594.6	6912.6	7104.0
15°	3239.6	3478.8	3813.8	4165.6	4399.2	4950.9	5643.3	6493.3	6907.0	7075.9
17.5°	2727.3	2949.7	3225.5	3605.5	4075.5	4694.7	5612.3	6831.0	7284.2	7481.2
20°	2288.3	2412.1	2733.0	3124.2	3712.5	4433.0	5623.6	7329.2	7993.4	8080.7
22.5°	2116.6	2144.7	2271.4	2631.6	3276.2	4165.6	5823.4	8035.7	8790.0	9077.1
25°	1984.3	1978.7	2012.4	2254.5	2958.1	4061.5	6020.4	8685.8	9673.8	9986.2
27.5°	1911.1	1854.8	1857.6	2085.6	2733.0	3892.6	6273.7	9431.7	10675.8	10813.7
30°	1874.5	1863.3	1829.5	1922.4	2488.1	3639.3	6316.0	10166.3	11266.8	11466.7
32.5°	1852.0	1742.2	1700.0	1733.8	2257.3	3363.4	6473.6	10650.4	11998.6	11911.4
35°	1739.4	1640.9	1612.8	1646.5	2094.1	3208.6	6369.4	11072.6	12547.5	12693.8
37.5°	1697.2	1609.9	1553.7	1525.5	1942.1	3079.2	6316.0	11722.8	13079.4	13431.2
40°	1657.8	1564.9	1497.4	1469.2	1823.9	2907.5	6299.1	12223.8	13693.0	13904.1
42.5°	1612.8	1553.7	1477.7	1427.0	1680.3	2735.8	6104.9	12378.6	13881.6	14109.6
44°	1598.7	1508.6	1429.8	1412.9	1624.0	2648.5	6065.5	12519.3	14044.8	14391.0
45°	1584.6	1500.2	1410.1	1387.6	1604.3	2600.7	6012.0	12553.1	14315.0	14379.8
47.5°	1545.2	1491.7	1404.5	1342.6	1562.1	2496.5	5851.5	12361.7	14039.2	14050.5
50°	1514.3	1452.3	1362.3	1241.2	1505.8	2409.3	5924.7	12291.3	13375.0	13400.3
52.5°	1480.5	1387.6	1336.9	1128.7	1412.9	2336.1	6079.5	12609.4	13450.9	13445.3
55°	1441.1	1339.7	1215.9	1033.0	1258.1	2243.2	6453.9	13237.0	14154.6	14250.3
57.5°	1379.2	1291.9	1114.6	948.5	1080.8	2065.9	6332.8	12035.2	13023.1	13040.0
60°	1297.5	1215.9	1010.4	883.8	886.6	1629.7	5663.0	9378.2	10276.1	10521.0
62.5°	1218.7	1173.7	923.2	790.9	754.3	1297.5	4787.6	7793.6	8820.9	9023.6
65°	1125.8	1016.1	847.2	720.5	647.4	909.1	3391.6	5823.4	6881.7	7154.7
67.5°	1007.6	889.4	745.9	633.3	554.5	608.0	1750.7	3310.0	4382.3	4542.8
70°	881.0	771.2	627.7	534.8	447.5	419.4	771.2	1579.0	2395.2	2561.3
72.5°	723.4	622.0	501.0	422.2	334.9	289.9	258.9	422.2	850.0	987.9
75°	523.5	453.1	377.2	301.2	236.4	185.8	152.0	126.7	140.7	152.0
77.5°	385.6	329.3	278.6	213.9	166.1	132.3	104.1	78.8	76.0	73.2
80°	301.2	267.4	222.4	171.7	129.5	98.5	73.2	53.5	47.8	47.8
82.5°	236.4	219.5	182.9	140.7	107.0	78.8	53.5	36.6	31.0	31.0
85°	90.1	90.1	132.3	115.4	81.6	56.3	36.6	19.7	16.9	16.9
87.5°	22.5	22.5	22.5	22.5	19.7	16.9	16.9	8.4	5.6	5.6
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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