

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: P529354

Luminaire Tested: **GALN-SA4C-730-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529354  
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-SA4C-730-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 18864 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

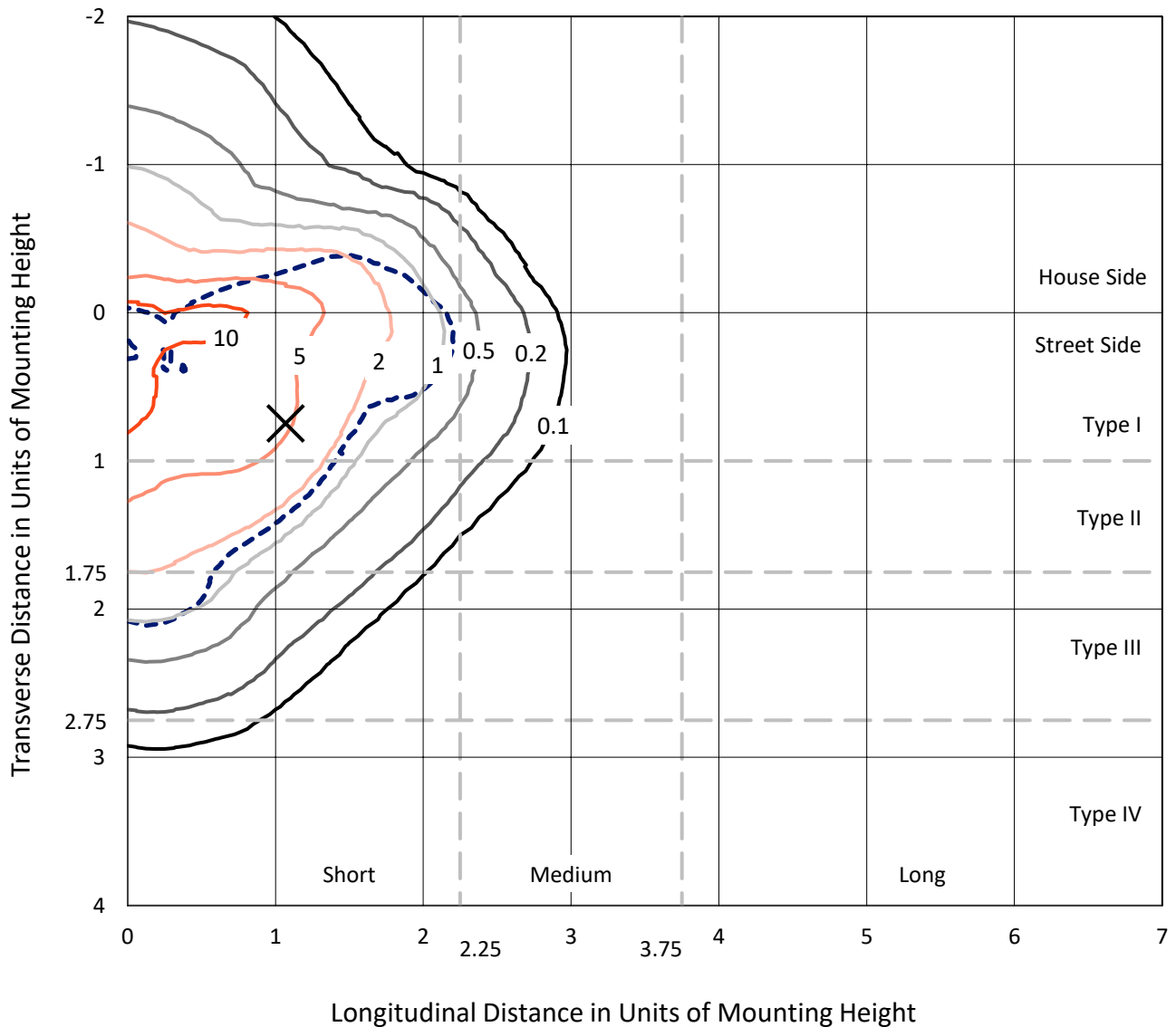
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

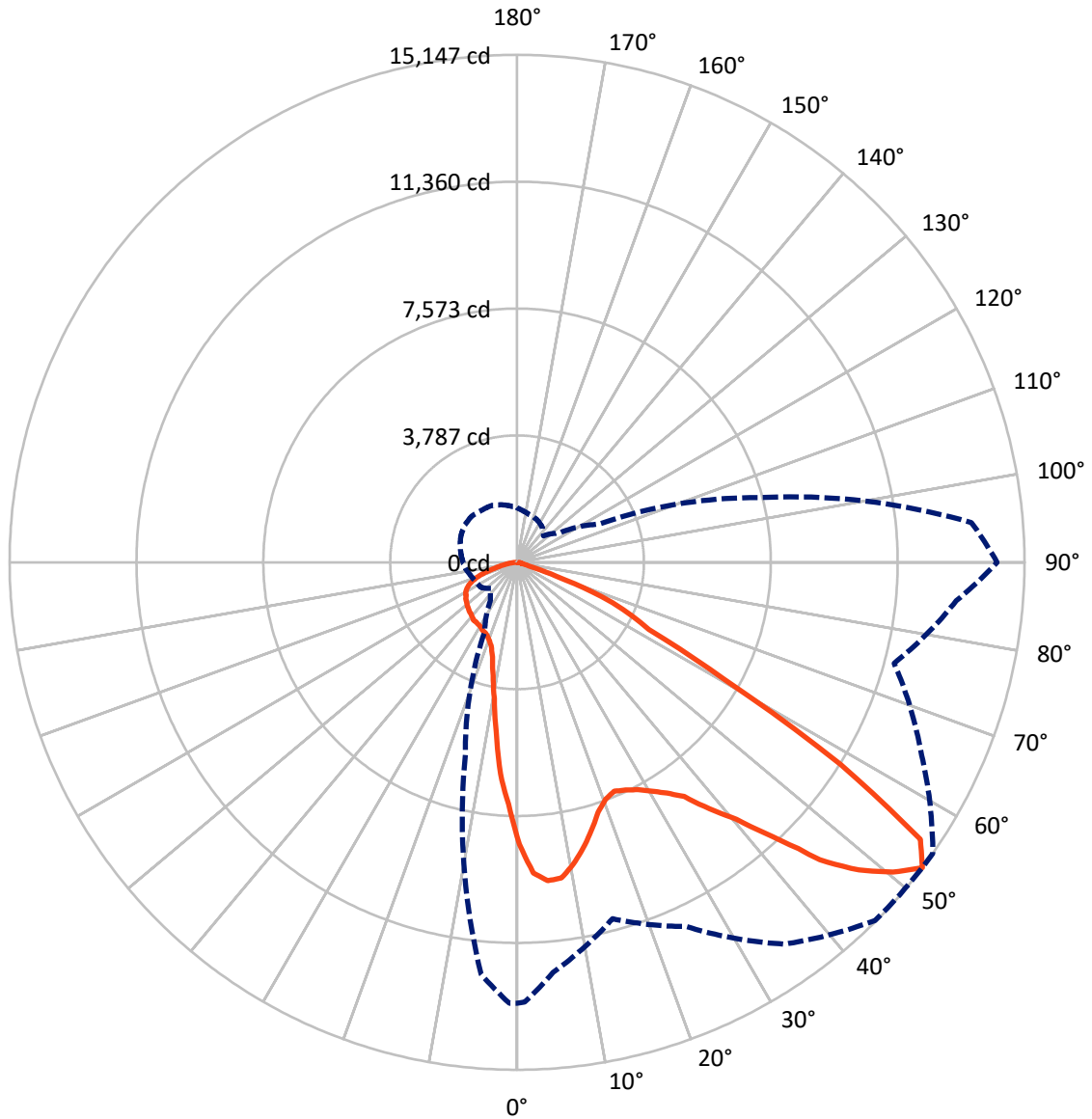
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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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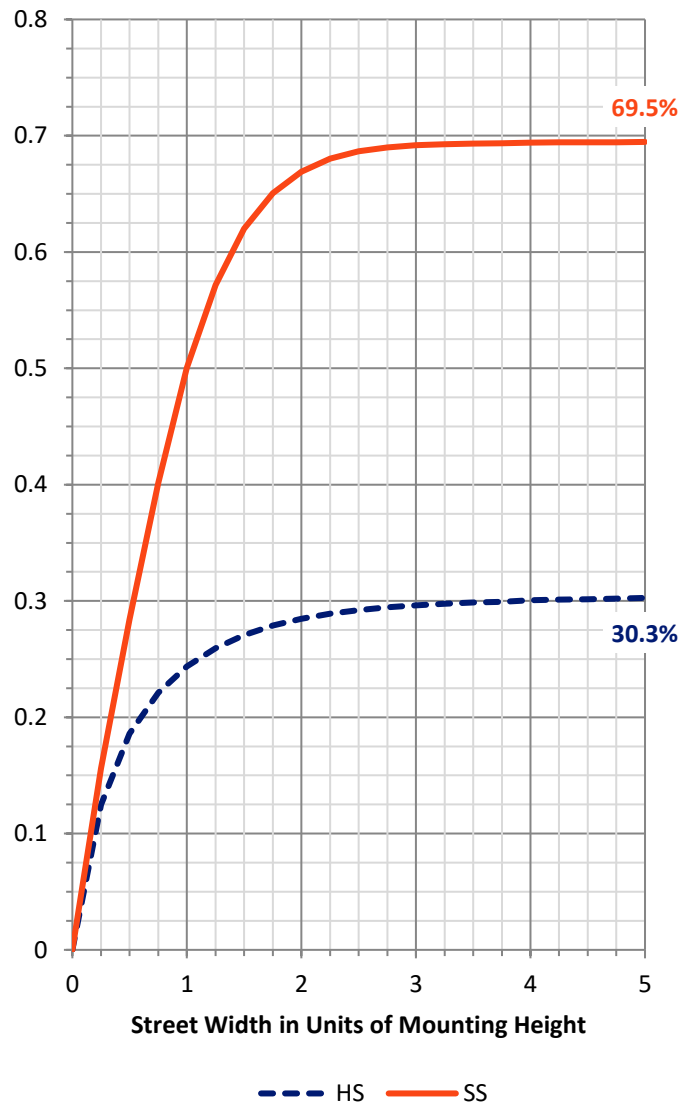
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5754.5	0.0	5754.5
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	13109.5	0.0	13109.5
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	18864.0	0.0	18864.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	642.9	3.4
10°-20°	1386.1	7.3
20°-30°	2101.8	11.1
30°-40°	3036.8	16.1
40°-50°	4058.0	21.5
50°-60°	4529.6	24.0
60°-70°	2484.7	13.2
70°-80°	537.2	2.8
80°-90°	86.9	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°	18864.0	100.0
0°-180°	18864.0	100.0

**Coefficient of Utilization**

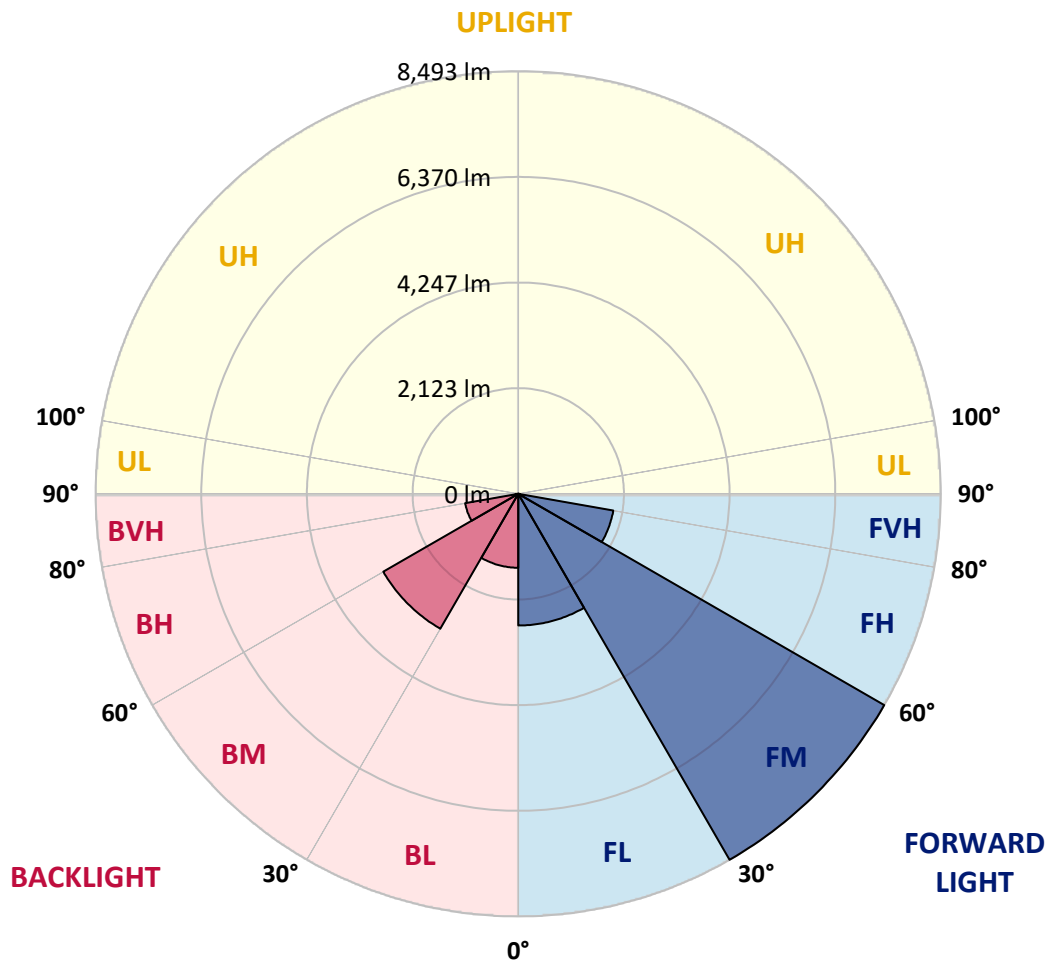


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2645.1	14.0			
FM (30°-60°)	8493.5	45.0			
FH (60°-80°)	1938.7	10.3			G2/5000
FVH (80°-90°)	32.2	0.2			G1/100
BL (0°-30°)	1485.7	7.9	B3/2500		
BM (30°-60°)	3130.9	16.6	B3/5000		
BH (60°-80°)	1083.1	5.7	B3/2500		G3/2500
BVH (80°-90°)	54.7	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°	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8
2.5°	8830.7	8781.1	8825.2	9034.6	9155.7	9238.4	9290.7	9282.5	9084.1	8891.3	8891.3
5°	8571.8	8508.5	8599.4	9073.1	9549.6	9590.9	9659.8	9546.9	9254.9	8902.3	8461.6
7.5°	7822.6	7869.4	8020.9	8643.4	9263.2	9574.4	9657.1	9513.8	9040.1	8381.7	7734.5
10°	7175.3	7285.5	7635.3	8307.4	8877.5	9282.5	9373.3	9172.3	8797.7	7990.6	7412.2
12.5°	6952.2	6883.3	7271.7	7943.8	8489.2	8706.8	8748.1	8761.9	8508.5	7792.3	7087.2
15°	6924.7	6968.7	7271.7	7781.3	8117.3	8128.3	8197.2	8304.6	8337.7	7927.3	7238.7
17.5°	7321.3	7269.0	7580.2	7985.1	7825.4	7665.6	7682.1	7836.4	8109.1	8043.0	7715.2
20°	7908.0	8026.4	8271.6	8230.3	7800.6	7395.7	7398.4	7544.4	8081.5	8522.2	8379.0
22.5°	8883.1	8998.7	9180.5	8682.0	7800.6	7315.8	7222.1	7420.5	8257.8	9092.4	9128.2
25°	9772.7	9984.8	10034.4	9447.7	8191.7	7390.2	7329.6	7525.1	8434.1	9648.8	9987.6
27.5°	10582.5	10659.7	10877.3	9940.8	8409.3	7439.7	7434.2	7684.9	8657.2	9927.0	10756.1
30°	11221.6	11213.3	11337.3	10252.0	8756.4	7717.9	7450.8	7924.5	8949.2	10387.0	11466.7
32.5°	11656.8	11750.4	12012.1	10684.5	8902.3	7982.4	7773.0	8205.5	9304.5	10604.6	11968.0
35°	12422.5	12585.0	12254.5	10924.1	9365.1	8244.0	7998.9	8588.3	9480.8	10841.5	12582.3
37.5°	13144.2	13020.2	12684.2	11053.6	9665.3	8728.8	8500.2	9329.3	10028.9	11356.5	12989.9
40°	13606.9	13604.2	13006.4	11158.2	9877.4	9469.8	9456.0	10081.2	10701.0	11681.6	13447.2
42.5°	13808.0	14000.8	13138.7	11147.2	10323.6	10367.7	10645.9	11205.0	11177.5	11747.7	13436.1
44°	14083.4	14199.1	13367.3	11172.0	10621.1	10973.7	11629.2	11984.6	11593.4	11711.9	13422.4
45°	14072.4	14080.7	13042.3	11205.0	10874.5	11480.5	12067.2	12667.7	11959.8	11634.7	13604.2
47.5°	13750.1	13656.5	12766.8	10959.9	11665.0	12819.1	13361.8	13725.4	12411.5	11469.5	13378.3
50°	13113.9	13006.4	12097.5	10855.2	11830.3	13651.0	14400.2	14532.4	12821.9	11307.0	13155.2
52.5°	13157.9	13127.6	12287.5	11012.2	11995.6	13912.7	15113.6	15146.6	13287.4	11648.5	13157.9
55°	13945.7	13841.0	12832.9	11207.8	11874.4	13606.9	14659.1	14601.3	13130.4	11441.9	13400.3
57.5°	12761.3	12830.2	12078.2	10433.8	10392.5	11061.8	11524.6	11381.3	10957.1	10326.4	12466.6
60°	10296.1	10491.6	10563.3	8726.1	7841.9	7497.6	7359.9	7106.4	7178.1	8483.7	10951.6
62.5°	8830.7	8819.7	9268.7	7910.7	5137.0	4418.1	4352.0	4409.9	5236.2	8351.5	10725.8
65°	7001.8	7189.1	7326.8	6704.3	4065.5	3280.5	3277.8	3644.1	4531.0	6979.7	8659.9
67.5°	4445.7	4690.8	4861.6	4288.7	2718.6	2335.8	2272.4	2713.1	3140.1	4577.9	5214.1
70°	2506.5	2622.2	2699.3	2473.5	1729.8	1212.0	1140.3	1245.0	1897.8	2963.8	3090.5
72.5°	966.8	1019.1	1123.8	1132.1	652.8	391.1	316.8	380.1	798.8	1173.4	1118.3
75°	148.7	159.8	225.9	269.9	187.3	143.2	151.5	157.0	223.1	303.0	253.4
77.5°	71.6	71.6	68.9	79.9	93.7	101.9	110.2	121.2	132.2	146.0	140.5
80°	46.8	46.8	46.8	55.1	68.9	82.6	93.7	99.2	104.7	115.7	110.2
82.5°	30.3	30.3	30.3	41.3	55.1	68.9	74.4	88.1	99.2	115.7	107.4
85°	16.5	16.5	16.5	27.5	41.3	57.8	55.1	44.1	24.8	2.8	5.5
87.5°	5.5	5.5	5.5	5.5	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°	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8
2.5°	8659.9	8533.2	8522.2	8263.3	8031.9	7919.0	7828.1	7574.7	7629.8	7483.8	7481.0
5°	8241.3	7982.4	7563.7	7219.4	6875.1	6806.2	6506.0	6244.3	6252.6	6065.3	6098.3
7.5°	7489.3	7310.3	6800.7	6260.8	5803.6	5478.6	5194.9	5024.1	4806.5	4732.1	4693.6
10°	7012.8	6792.4	6219.5	5541.9	5029.6	4856.1	4583.4	4431.9	4208.8	4098.6	4021.5
12.5°	6803.5	6481.2	5765.0	5076.4	4734.9	4555.8	4324.5	4049.0	3784.6	3682.7	3542.2
15°	6825.5	6439.9	5632.8	4889.1	4478.7	4131.7	3925.1	3619.3	3349.4	3170.4	3068.4
17.5°	7158.8	6690.5	5693.4	4745.9	4156.4	3721.2	3316.3	2985.8	2771.0	2636.0	2602.9
20°	7946.5	7310.3	5795.3	4514.5	3834.2	3291.6	2793.0	2448.7	2283.4	2280.7	2283.4
22.5°	8602.1	7971.3	6001.9	4376.8	3511.9	2740.7	2244.9	2134.7	2101.6	2170.5	2178.8
25°	9486.3	8715.0	6357.2	4305.2	3214.4	2335.8	2030.0	1988.7	1985.9	2074.1	2076.8
27.5°	10392.5	9365.1	6569.3	4095.8	2911.4	2126.4	1900.6	1892.3	1936.4	2030.0	2021.8
30°	11009.5	9910.5	6952.2	3845.2	2553.4	1941.9	1848.2	1859.2	1919.8	1991.5	2002.5
32.5°	11728.4	10447.6	7051.4	3707.5	2333.0	1787.6	1721.5	1746.3	1823.4	1936.4	1997.0
35°	12552.0	10827.7	7202.9	3520.2	2250.4	1669.2	1636.1	1663.7	1757.3	1831.7	1897.8
37.5°	13160.7	11499.8	7230.4	3374.2	2159.5	1603.1	1550.7	1641.6	1696.7	1801.4	1834.5
40°	13612.4	11987.3	7302.0	3283.3	2087.9	1517.7	1517.7	1578.3	1652.7	1749.1	1815.2
42.5°	13901.6	12342.6	7354.3	3200.7	1950.1	1492.9	1479.1	1539.7	1638.9	1732.5	1762.8
44°	14077.9	12494.1	7302.0	3123.5	1911.6	1462.6	1462.6	1514.9	1592.1	1702.2	1738.0
45°	14122.0	12684.2	7186.3	3120.8	1864.8	1426.8	1421.3	1520.4	1572.8	1707.8	1729.8
47.5°	14292.8	12918.3	7200.1	3032.6	1751.8	1341.4	1437.8	1481.9	1528.7	1647.2	1721.5
50°	14287.3	13064.3	7169.8	2903.2	1669.2	1245.0	1404.8	1454.3	1501.2	1622.4	1652.7
52.5°	14325.8	13609.7	7448.0	2696.6	1520.4	1121.1	1294.6	1404.8	1462.6	1564.5	1627.9
55°	14306.5	13920.9	7723.4	2542.3	1311.1	1046.7	1200.9	1330.4	1413.0	1520.4	1550.7
57.5°	13067.0	12304.1	7147.8	2253.1	1085.2	958.5	1068.7	1253.3	1357.9	1468.1	1506.7
60°	10676.2	9483.5	5894.5	1658.2	892.4	881.4	994.4	1228.5	1272.5	1369.0	1435.1
62.5°	9866.4	8318.4	4674.3	1267.0	763.0	807.0	917.2	1110.0	1178.9	1297.3	1357.9
65°	7720.7	5525.4	2894.9	856.6	672.1	724.4	829.1	972.3	1085.2	1195.4	1267.0
67.5°	4572.4	3018.9	1432.3	600.5	586.7	641.8	749.2	856.6	986.1	1107.3	1143.1
70°	2490.0	1484.6	611.5	457.2	498.6	548.1	652.8	727.2	851.1	944.8	1005.4
72.5°	798.8	451.7	305.7	338.8	380.1	438.0	501.3	592.2	680.3	735.4	785.0
75°	192.8	190.1	217.6	236.9	275.4	319.5	371.8	418.7	487.5	539.9	583.9
77.5°	135.0	146.0	168.0	195.6	209.3	225.9	258.9	294.7	325.0	363.6	391.1
80°	104.7	112.9	129.5	143.2	157.0	170.8	187.3	201.1	220.4	245.1	258.9
82.5°	99.2	104.7	121.2	129.5	123.9	121.2	132.2	137.7	140.5	148.7	157.0
85°	8.3	0.0	5.5	19.3	46.8	68.9	74.4	74.4	71.6	77.1	77.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	11.0	8.3
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°	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8
2.5°	7448.0	7354.3	7390.2	7434.2	7370.9	7224.9	7263.4	7246.9	7395.7	7384.6	7533.4
5°	6244.3	6098.3	6114.8	6329.7	6260.8	6335.2	6186.5	6167.2	6194.7	6208.5	6233.3
7.5°	4778.9	4759.7	4924.9	5106.7	5192.1	5104.0	4958.0	4924.9	4894.6	4834.0	4971.8
10°	3900.3	3905.8	3894.8	4032.5	4128.9	4109.6	4021.5	4010.5	3952.6	3930.6	4007.7
12.5°	3481.6	3407.2	3371.4	3327.4	3401.7	3451.3	3412.7	3385.2	3388.0	3415.5	3426.5
15°	3076.7	3029.9	2952.8	2903.2	2939.0	2914.2	2900.4	2955.5	2941.7	2936.2	3002.3
17.5°	2622.2	2660.8	2655.3	2600.2	2647.0	2627.7	2625.0	2586.4	2534.1	2495.5	2517.6
20°	2322.0	2393.6	2448.7	2451.4	2476.2	2473.5	2432.2	2313.7	2275.2	2266.9	2272.4
22.5°	2214.6	2253.1	2319.2	2412.9	2412.9	2368.8	2319.2	2181.5	2145.7	2107.1	2090.6
25°	2129.2	2203.5	2288.9	2300.0	2344.0	2302.7	2222.8	2154.0	2079.6	2027.3	2027.3
27.5°	2085.1	2167.7	2231.1	2250.4	2311.0	2277.9	2195.3	2107.1	2019.0	2016.2	1969.4
30°	2065.8	2143.0	2184.3	2231.1	2258.6	2206.3	2181.5	2087.9	1999.7	1977.7	1900.6
32.5°	2008.0	2118.2	2195.3	2184.3	2206.3	2184.3	2148.5	2071.3	1972.2	1922.6	1914.3
35°	1941.9	2052.1	2134.7	2192.5	2206.3	2159.5	2137.4	2032.8	1897.8	1873.0	1787.6
37.5°	1906.1	1972.2	2074.1	2167.7	2187.0	2162.2	2087.9	1980.4	1845.5	1817.9	1743.6
40°	1862.0	1947.4	2027.3	2104.4	2162.2	2101.6	2016.2	1911.6	1851.0	1768.3	1746.3
42.5°	1828.9	1925.4	1991.5	2076.8	2143.0	2063.1	1963.9	1892.3	1806.9	1751.8	1688.5
44°	1817.9	1906.1	1950.1	2054.8	2109.9	2049.3	1966.7	1892.3	1793.1	1743.6	1688.5
45°	1779.4	1900.6	1947.4	2041.0	2087.9	2038.3	1933.6	1859.2	1787.6	1727.0	1669.2
47.5°	1740.8	1823.4	1903.3	1977.7	2010.7	1994.2	1906.1	1815.2	1729.8	1694.0	1638.9
50°	1729.8	1812.4	1886.8	1955.6	1994.2	1961.2	1881.3	1793.1	1694.0	1636.1	1589.3
52.5°	1674.7	1776.6	1859.2	1881.3	1930.9	1911.6	1851.0	1754.6	1660.9	1611.3	1572.8
55°	1594.8	1702.2	1815.2	1842.7	1914.3	1884.0	1793.1	1702.2	1622.4	1548.0	1498.4
57.5°	1564.5	1669.2	1779.4	1815.2	1859.2	1809.7	1787.6	1691.2	1564.5	1526.0	1448.8
60°	1487.4	1619.6	1710.5	1793.1	1795.9	1782.1	1743.6	1633.4	1528.7	1457.1	1402.0
62.5°	1426.8	1550.7	1622.4	1699.5	1746.3	1707.8	1669.2	1567.3	1454.3	1374.5	1311.1
65°	1338.7	1451.6	1512.2	1559.0	1611.3	1605.8	1539.7	1465.4	1346.9	1283.6	1223.0
67.5°	1203.7	1302.8	1385.5	1429.6	1462.6	1454.3	1404.8	1352.4	1231.2	1167.9	1123.8
70°	1041.2	1143.1	1195.4	1220.2	1253.3	1269.8	1231.2	1206.4	1099.0	1016.4	975.1
72.5°	837.3	903.5	980.6	1002.6	1016.4	1027.4	1027.4	1005.4	895.2	862.1	790.5
75°	617.0	669.3	727.2	727.2	752.0	754.7	760.2	746.5	663.8	619.7	603.2
77.5°	418.7	457.2	504.1	523.3	539.9	537.1	534.4	495.8	451.7	432.4	415.9
80°	272.7	311.3	333.3	358.1	374.6	371.8	377.4	349.8	330.5	297.5	303.0
82.5°	162.5	192.8	214.8	245.1	245.1	253.4	253.4	245.1	225.9	209.3	209.3
85°	77.1	101.9	115.7	135.0	146.0	148.7	132.2	112.9	93.7	85.4	93.7
87.5°	13.8	19.3	27.5	24.8	30.3	27.5	27.5	27.5	27.5	22.0	24.8
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: P529354

CATALOG NUMBER: GALN-SA4C-730-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8
2.5°	7478.3	7616.0	7712.4	7872.2	8147.6	8368.0	8593.8	8761.9	8781.1	8830.7
5°	6324.2	6398.6	6643.7	6963.2	7189.1	7560.9	7800.6	8235.8	8398.3	8571.8
7.5°	4938.7	5059.9	5387.7	5602.5	6098.3	6563.8	7045.8	7583.0	7797.8	7822.6
10°	4164.7	4341.0	4564.1	4908.4	5178.3	5696.2	6296.6	6894.4	7134.0	7175.3
12.5°	3657.9	3883.8	4181.2	4429.1	4688.1	5139.8	5715.5	6453.6	6764.9	6952.2
15°	3170.4	3404.5	3732.3	4076.6	4305.2	4845.1	5522.6	6354.5	6759.4	6924.7
17.5°	2669.0	2886.6	3156.6	3528.4	3988.4	4594.4	5492.3	6685.0	7128.5	7321.3
20°	2239.4	2360.6	2674.6	3057.4	3633.1	4338.2	5503.4	7172.6	7822.6	7908.0
22.5°	2071.3	2098.9	2222.8	2575.4	3206.2	4076.6	5698.9	7863.9	8602.1	8883.1
25°	1941.9	1936.4	1969.4	2206.3	2894.9	3974.7	5891.7	8500.2	9467.0	9772.7
27.5°	1870.3	1815.2	1817.9	2041.0	2674.6	3809.4	6139.6	9230.1	10447.6	10582.5
30°	1834.5	1823.4	1790.4	1881.3	2434.9	3561.5	6181.0	9949.0	11026.0	11221.6
32.5°	1812.4	1705.0	1663.7	1696.7	2209.1	3291.6	6335.2	10422.8	11742.2	11656.8
35°	1702.2	1605.8	1578.3	1611.3	2049.3	3140.1	6233.3	10836.0	12279.3	12422.5
37.5°	1660.9	1575.5	1520.4	1492.9	1900.6	3013.4	6181.0	11472.2	12799.9	13144.2
40°	1622.4	1531.5	1465.4	1437.8	1784.9	2845.3	6164.4	11962.5	13400.3	13606.9
42.5°	1578.3	1520.4	1446.1	1396.5	1644.4	2677.3	5974.4	12114.0	13584.9	13808.0
44°	1564.5	1476.4	1399.3	1382.7	1589.3	2591.9	5935.8	12251.7	13744.6	14083.4
45°	1550.7	1468.1	1380.0	1357.9	1570.0	2545.1	5883.5	12284.8	14009.1	14072.4
47.5°	1512.2	1459.9	1374.5	1313.9	1528.7	2443.2	5726.5	12097.5	13739.1	13750.1
50°	1481.9	1421.3	1333.1	1214.7	1473.6	2357.8	5798.1	12028.6	13089.1	13113.9
52.5°	1448.8	1357.9	1308.4	1104.5	1382.7	2286.2	5949.6	12339.9	13163.5	13157.9
55°	1410.3	1311.1	1189.9	1010.9	1231.2	2195.3	6315.9	12954.1	13852.1	13945.7
57.5°	1349.7	1264.3	1090.8	928.2	1057.7	2021.8	6197.5	11778.0	12744.8	12761.3
60°	1269.8	1189.9	988.8	864.9	867.6	1594.8	5541.9	9177.8	10056.4	10296.1
62.5°	1192.7	1148.6	903.5	774.0	738.2	1269.8	4685.3	7627.0	8632.4	8830.7
65°	1101.8	994.4	829.1	705.1	633.5	889.7	3319.1	5698.9	6734.6	7001.8
67.5°	986.1	870.4	729.9	619.7	542.6	595.0	1713.3	3239.2	4288.7	4445.7
70°	862.1	754.7	614.2	523.3	438.0	410.4	754.7	1545.2	2344.0	2506.5
72.5°	707.9	608.7	490.3	413.2	327.8	283.7	253.4	413.2	831.8	966.8
75°	512.3	443.5	369.1	294.7	231.4	181.8	148.7	123.9	137.7	148.7
77.5°	377.4	322.3	272.7	209.3	162.5	129.5	101.9	77.1	74.4	71.6
80°	294.7	261.7	217.6	168.0	126.7	96.4	71.6	52.3	46.8	46.8
82.5°	231.4	214.8	179.0	137.7	104.7	77.1	52.3	35.8	30.3	30.3
85°	88.1	88.1	129.5	112.9	79.9	55.1	35.8	19.3	16.5	16.5
87.5°	22.0	22.0	22.0	22.0	19.3	16.5	16.5	8.3	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)