

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: P529588

Luminaire Tested: **GALN-SA4D-730-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529588
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-SA4D-730-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA 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: 20757 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

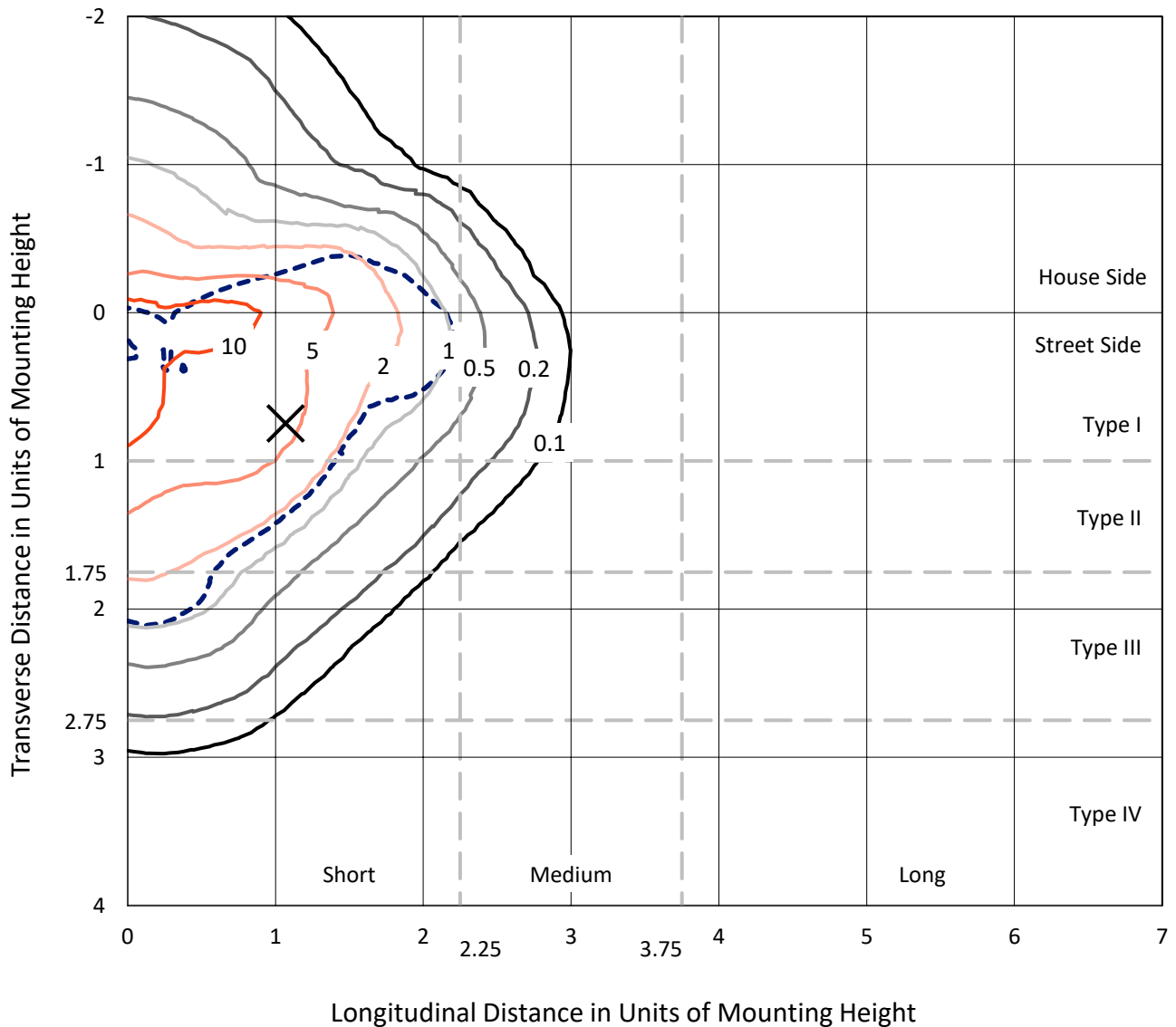
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

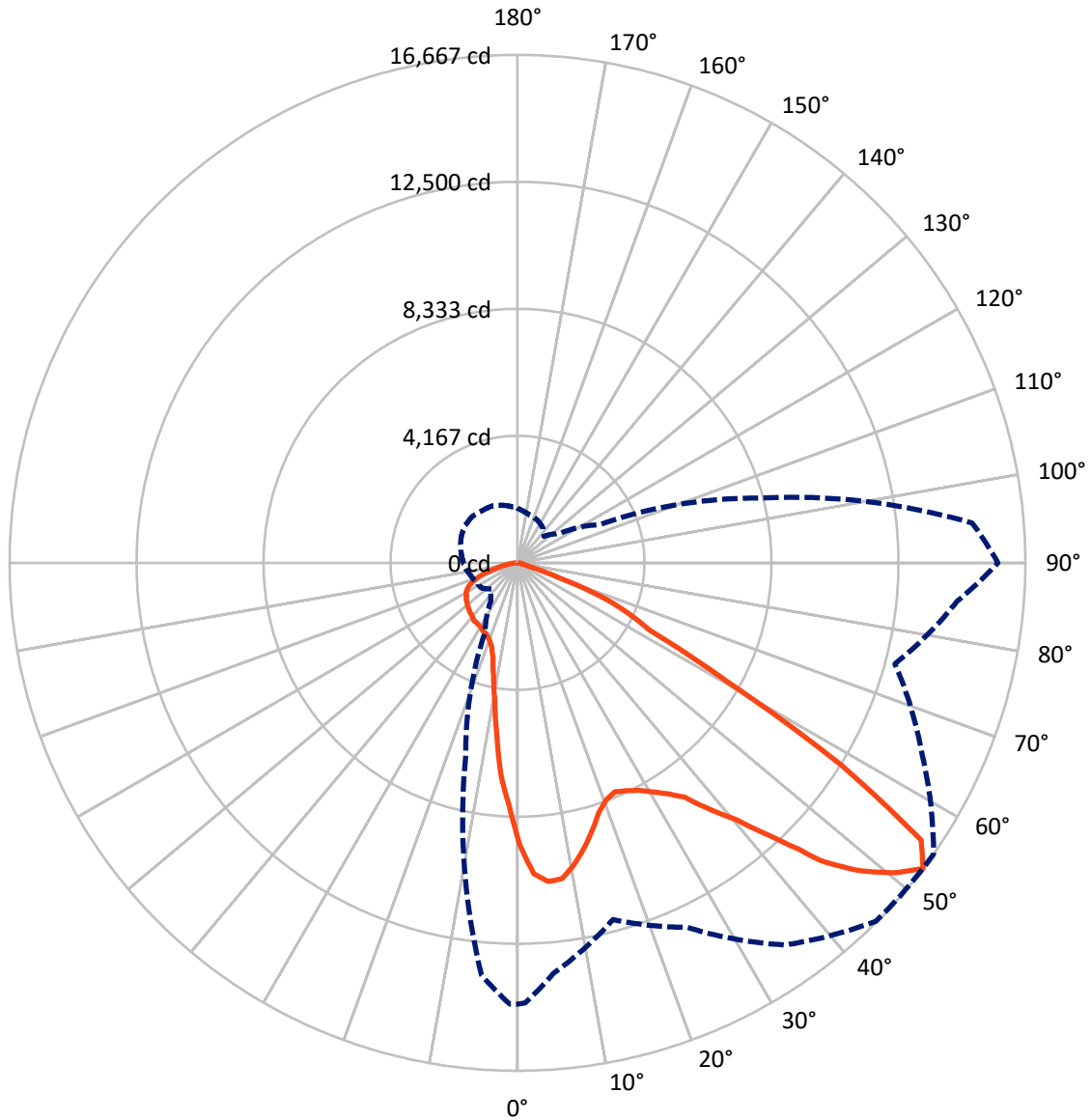
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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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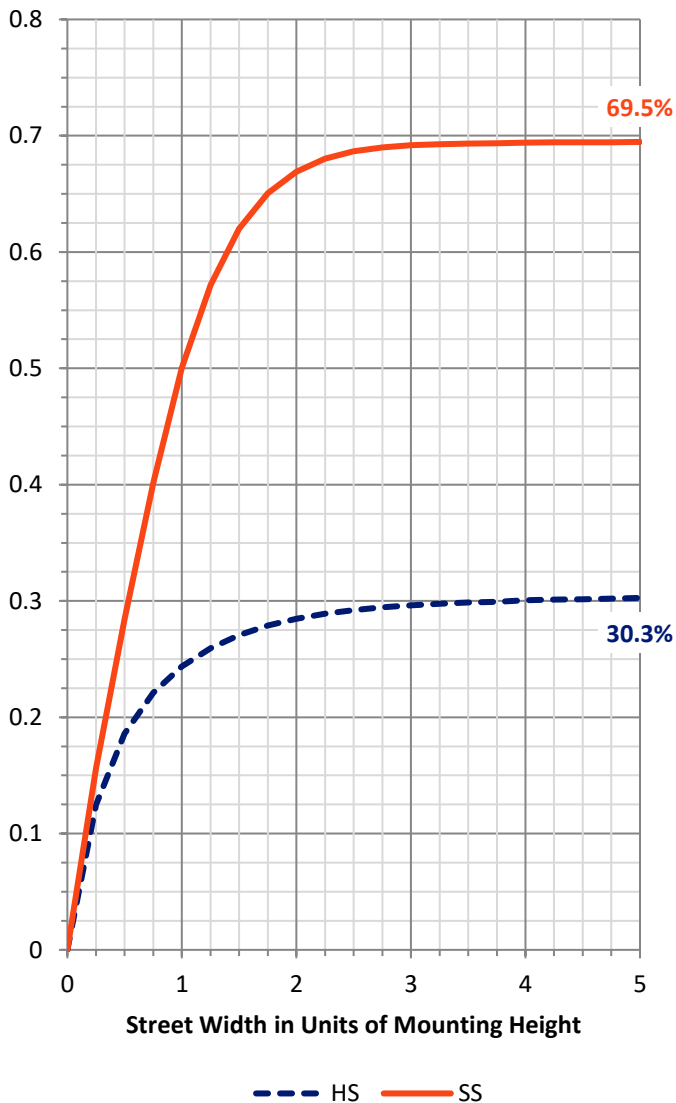
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6332.0	0.0	6332.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	14425.0	0.0	14425.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	20757.0	0.0	20757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.4	3.4
10°-20°	1525.2	7.3
20°-30°	2312.7	11.1
30°-40°	3341.5	16.1
40°-50°	4465.2	21.5
50°-60°	4984.2	24.0
60°-70°	2734.0	13.2
70°-80°	591.1	2.8
80°-90°	95.6	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°	20757.0	100.0
0°-180°	20757.0	100.0

Coefficient of Utilization



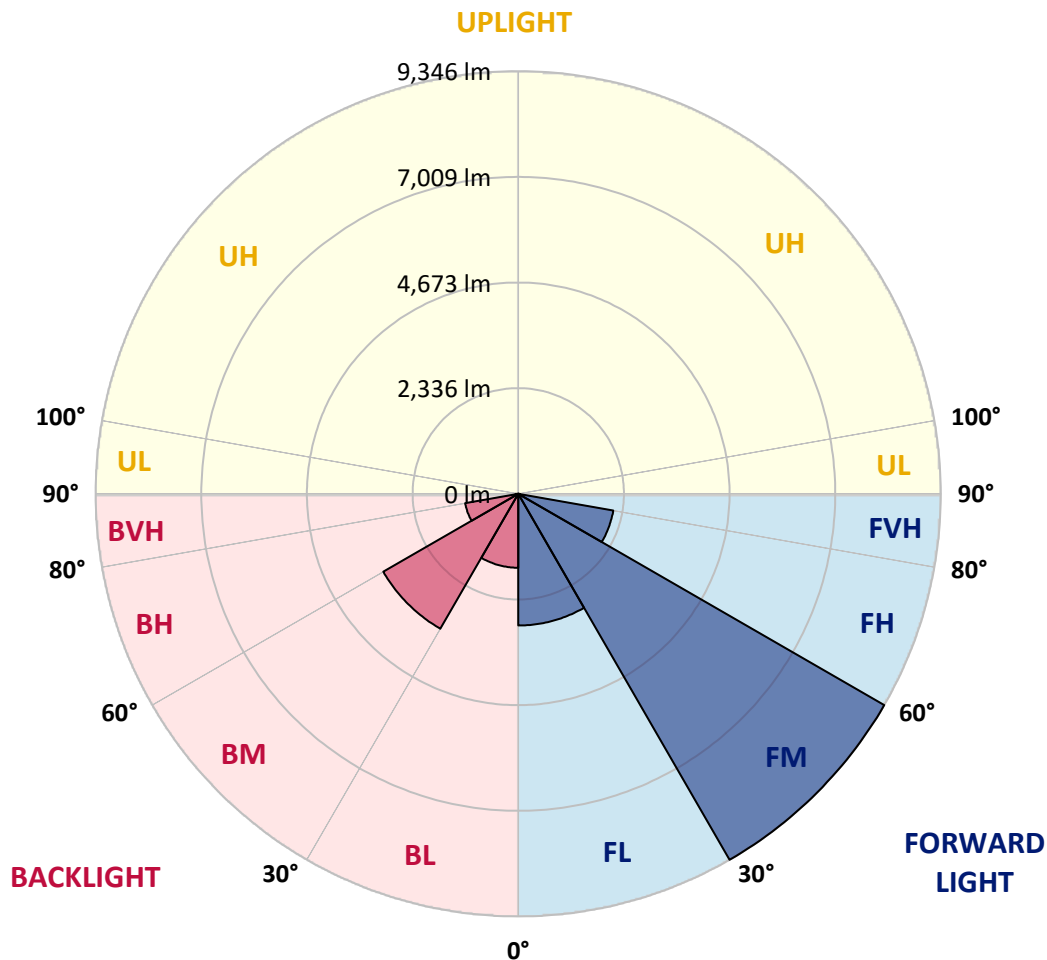
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2910.5	14.0			
FM (30°-60°)	9345.8	45.0			
FH (60°-80°)	2133.3	10.3			G2/5000
FVH (80°-90°)	35.4	0.2			G1/100
BL (0°-30°)	1634.8	7.9	B3/2500		
BM (30°-60°)	3445.1	16.6	B3/5000		
BH (60°-80°)	1191.8	5.7	B3/2500		G3/2500
BVH (80°-90°)	60.2	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°	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2
2.5°	9716.9	9662.3	9710.8	9941.2	10074.5	10165.4	10223.0	10213.9	9995.7	9783.6	9783.6
5°	9432.0	9362.3	9462.3	9983.6	10507.9	10553.4	10629.2	10504.9	10183.6	9795.7	9310.8
7.5°	8607.6	8659.1	8825.8	9510.8	10192.7	10535.2	10626.1	10468.5	9947.2	9222.9	8510.6
10°	7895.3	8016.6	8401.5	9141.0	9768.4	10213.9	10314.0	10092.7	9680.5	8792.5	8156.0
12.5°	7649.8	7574.1	8001.4	8741.0	9341.1	9580.5	9626.0	9641.1	9362.3	8574.3	7798.4
15°	7619.5	7668.0	8001.4	8562.1	8931.9	8944.0	9019.8	9138.0	9174.4	8722.8	7965.1
17.5°	8056.0	7998.4	8340.9	8786.4	8610.6	8434.8	8453.0	8622.8	8922.8	8850.1	8489.4
20°	8701.6	8831.9	9101.6	9056.2	8583.3	8137.8	8140.8	8301.5	8892.5	9377.4	9219.8
22.5°	9774.5	9901.8	10101.8	9553.2	8583.3	8049.9	7946.9	8165.1	9086.5	10004.8	10044.2
25°	10753.4	10986.8	11041.4	10395.8	9013.7	8131.8	8065.1	8280.3	9280.4	10617.0	10989.8
27.5°	11644.5	11729.4	11968.8	10938.3	9253.2	8186.3	8180.2	8456.1	9525.9	10923.2	11835.4
30°	12347.7	12338.6	12475.0	11280.8	9635.1	8492.4	8198.4	8719.7	9847.2	11429.3	12617.4
32.5°	12826.5	12929.6	13217.5	11756.6	9795.7	8783.4	8553.0	9028.9	10238.2	11668.7	13169.0
35°	13669.1	13847.9	13484.2	12020.3	10304.9	9071.3	8801.6	9450.2	10432.2	11929.4	13844.9
37.5°	14463.2	14326.8	13957.0	12162.8	10635.2	9604.7	9353.2	10265.5	11035.3	12496.2	14293.5
40°	14972.4	14969.3	14311.6	12277.9	10868.6	10420.0	10404.9	11092.9	11774.8	12853.8	14796.6
42.5°	15193.6	15405.8	14457.1	12265.8	11359.6	11408.1	11714.2	12329.5	12299.2	12926.5	14784.5
44°	15496.7	15624.0	14708.7	12293.1	11686.9	12074.9	12796.2	13187.2	12756.8	12887.1	14769.3
45°	15484.6	15493.7	14351.0	12329.5	11965.8	12632.6	13278.1	13938.9	13159.9	12802.3	14969.3
47.5°	15130.0	15026.9	14048.0	12059.7	12835.6	14105.5	14702.6	15102.7	13657.0	12620.4	14720.8
50°	14429.8	14311.6	13311.5	11944.6	13017.5	15020.9	15845.3	15990.7	14108.6	12441.6	14475.3
52.5°	14478.3	14445.0	13520.6	12117.3	13199.3	15308.8	16630.2	16666.6	14620.8	12817.4	14478.3
55°	15345.2	15230.0	14120.7	12332.5	13066.0	14972.4	16130.2	16066.5	14448.0	12590.1	14745.1
57.5°	14041.9	14117.7	13290.2	11480.8	11435.4	12171.9	12681.1	12523.4	12056.7	11362.6	13717.6
60°	11329.3	11544.5	11623.3	9601.7	8628.8	8250.0	8098.4	7819.6	7898.4	9335.0	12050.6
62.5°	9716.9	9704.8	10198.8	8704.6	5652.5	4861.5	4788.7	4852.4	5761.6	9189.5	11802.1
65°	7704.4	7910.5	8062.0	7377.1	4473.5	3609.7	3606.7	4009.8	4985.7	7680.2	9529.0
67.5°	4891.8	5161.5	5349.4	4719.0	2991.4	2570.2	2500.4	2985.4	3455.2	5037.3	5737.4
70°	2758.1	2885.4	2970.2	2721.7	1903.4	1333.6	1254.8	1369.9	2088.3	3261.2	3400.6
72.5°	1063.8	1121.4	1236.6	1245.7	718.3	430.4	348.5	418.3	878.9	1291.1	1230.5
75°	163.7	175.8	248.5	297.0	206.1	157.6	166.7	172.8	245.5	333.4	278.8
77.5°	78.8	78.8	75.8	87.9	103.0	112.1	121.2	133.4	145.5	160.6	154.6
80°	51.5	51.5	51.5	60.6	75.8	90.9	103.0	109.1	115.2	127.3	121.2
82.5°	33.3	33.3	33.3	45.5	60.6	75.8	81.8	97.0	109.1	127.3	118.2
85°	18.2	18.2	18.2	30.3	45.5	63.6	60.6	48.5	27.3	3.0	6.1
87.5°	6.1	6.1	6.1	6.1	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°	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2
2.5°	9529.0	9389.6	9377.4	9092.5	8837.9	8713.7	8613.7	8334.8	8395.4	8234.8	8231.8
5°	9068.3	8783.4	8322.7	7943.8	7565.0	7489.2	7158.9	6870.9	6880.0	6673.9	6710.3
7.5°	8240.9	8043.9	7483.2	6889.1	6386.0	6028.3	5716.2	5528.3	5288.8	5207.0	5164.6
10°	7716.5	7474.1	6843.6	6098.1	5534.3	5343.4	5043.3	4876.6	4631.1	4509.9	4425.0
12.5°	7486.2	7131.6	6343.6	5585.8	5210.0	5013.0	4758.4	4455.3	4164.4	4052.2	3897.7
15°	7510.4	7086.1	6198.1	5379.7	4928.2	4546.3	4319.0	3982.5	3685.5	3488.5	3376.4
17.5°	7877.2	7361.9	6264.8	5222.1	4573.5	4094.7	3649.1	3285.4	3049.0	2900.5	2864.1
20°	8744.0	8043.9	6376.9	4967.6	4218.9	3621.9	3073.3	2694.4	2512.6	2509.5	2512.6
22.5°	9465.3	8771.3	6604.2	4816.0	3864.3	3015.7	2470.1	2348.9	2312.5	2388.3	2397.4
25°	10438.2	9589.6	6995.2	4737.2	3537.0	2570.2	2233.7	2188.3	2185.2	2282.2	2285.3
27.5°	11435.4	10304.9	7228.6	4506.9	3203.6	2339.8	2091.3	2082.2	2130.7	2233.7	2224.6
30°	12114.3	10905.0	7649.8	4231.1	2809.6	2136.7	2033.7	2045.8	2112.5	2191.3	2203.4
32.5°	12905.3	11496.0	7759.0	4079.5	2567.1	1967.0	1894.3	1921.6	2006.4	2130.7	2197.4
35°	13811.6	11914.2	7925.7	3873.4	2476.2	1836.7	1800.3	1830.6	1933.7	2015.5	2088.3
37.5°	14481.4	12653.8	7956.0	3712.8	2376.2	1764.0	1706.4	1806.4	1867.0	1982.2	2018.5
40°	14978.4	13190.2	8034.8	3612.8	2297.4	1670.0	1670.0	1736.7	1818.5	1924.6	1997.3
42.5°	15296.7	13581.2	8092.4	3521.8	2145.8	1642.7	1627.6	1694.2	1803.4	1906.4	1939.7
44°	15490.6	13747.9	8034.8	3437.0	2103.4	1609.4	1609.4	1667.0	1751.8	1873.1	1912.5
45°	15539.1	13957.0	7907.5	3433.9	2051.9	1570.0	1563.9	1673.0	1730.6	1879.1	1903.4
47.5°	15727.0	14214.7	7922.6	3337.0	1927.6	1476.0	1582.1	1630.6	1682.1	1812.4	1894.3
50°	15721.0	14375.3	7889.3	3194.5	1836.7	1369.9	1545.7	1600.3	1651.8	1785.2	1818.5
52.5°	15763.4	14975.4	8195.4	2967.2	1673.0	1233.6	1424.5	1545.7	1609.4	1721.5	1791.2
55°	15742.2	15317.9	8498.5	2797.5	1442.7	1151.7	1321.4	1463.9	1554.8	1673.0	1706.4
57.5°	14378.3	13538.8	7865.0	2479.2	1194.2	1054.7	1176.0	1379.0	1494.2	1615.4	1657.9
60°	11747.6	10435.2	6486.0	1824.6	982.0	969.9	1094.1	1351.8	1400.2	1506.3	1579.1
62.5°	10856.5	9153.1	5143.3	1394.2	839.5	888.0	1009.3	1221.4	1297.2	1427.5	1494.2
65°	8495.5	6079.9	3185.4	942.6	739.5	797.1	912.3	1069.9	1194.2	1315.4	1394.2
67.5°	5031.2	3321.8	1576.0	660.7	645.6	706.2	824.4	942.6	1085.0	1218.4	1257.8
70°	2739.9	1633.6	672.8	503.1	548.6	603.1	718.3	800.1	936.5	1039.6	1106.3
72.5°	878.9	497.1	336.4	372.8	418.3	481.9	551.6	651.6	748.6	809.2	863.8
75°	212.2	209.1	239.4	260.7	303.1	351.6	409.2	460.7	536.5	594.0	642.5
77.5°	148.5	160.6	184.9	215.2	230.3	248.5	284.9	324.3	357.6	400.1	430.4
80°	115.2	124.3	142.4	157.6	172.8	187.9	206.1	221.3	242.5	269.7	284.9
82.5°	109.1	115.2	133.4	142.4	136.4	133.4	145.5	151.5	154.6	163.7	172.8
85°	9.1	0.0	6.1	21.2	51.5	75.8	81.8	81.8	78.8	84.9	84.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	12.1	9.1
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°	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2
2.5°	8195.4	8092.4	8131.8	8180.2	8110.5	7949.9	7992.3	7974.1	8137.8	8125.7	8289.4
5°	6870.9	6710.3	6728.5	6964.9	6889.1	6970.9	6807.3	6786.1	6816.4	6831.5	6858.8
7.5°	5258.5	5237.3	5419.1	5619.2	5713.1	5616.2	5455.5	5419.1	5385.8	5319.1	5470.7
10°	4291.7	4297.7	4285.6	4437.2	4543.2	4522.0	4425.0	4412.9	4349.3	4325.0	4409.9
12.5°	3831.0	3749.2	3709.8	3661.3	3743.1	3797.6	3755.2	3724.9	3727.9	3758.2	3770.4
15°	3385.5	3333.9	3249.1	3194.5	3233.9	3206.6	3191.5	3252.1	3236.9	3230.9	3303.6
17.5°	2885.4	2927.8	2921.7	2861.1	2912.6	2891.4	2888.4	2846.0	2788.4	2745.9	2770.2
20°	2555.0	2633.8	2694.4	2697.5	2724.7	2721.7	2676.2	2545.9	2503.5	2494.4	2500.4
22.5°	2436.8	2479.2	2552.0	2655.0	2655.0	2606.5	2552.0	2400.4	2361.0	2318.6	2300.4
25°	2342.8	2424.7	2518.6	2530.8	2579.2	2533.8	2445.9	2370.1	2288.3	2230.7	2230.7
27.5°	2294.3	2385.3	2455.0	2476.2	2542.9	2506.5	2415.6	2318.6	2221.6	2218.6	2167.1
30°	2273.1	2358.0	2403.5	2455.0	2485.3	2427.7	2400.4	2297.4	2200.4	2176.1	2091.3
32.5°	2209.5	2330.7	2415.6	2403.5	2427.7	2403.5	2364.1	2279.2	2170.1	2115.5	2106.4
35°	2136.7	2258.0	2348.9	2412.6	2427.7	2376.2	2351.9	2236.8	2088.3	2061.0	1967.0
37.5°	2097.3	2170.1	2282.2	2385.3	2406.5	2379.2	2297.4	2179.2	2030.7	2000.4	1918.5
40°	2048.9	2142.8	2230.7	2315.6	2379.2	2312.5	2218.6	2103.4	2036.7	1945.8	1921.6
42.5°	2012.5	2118.6	2191.3	2285.3	2358.0	2270.1	2161.0	2082.2	1988.2	1927.6	1857.9
44°	2000.4	2097.3	2145.8	2261.0	2321.6	2254.9	2164.0	2082.2	1973.1	1918.5	1857.9
45°	1957.9	2091.3	2142.8	2245.9	2297.4	2242.8	2127.7	2045.8	1967.0	1900.3	1836.7
47.5°	1915.5	2006.4	2094.3	2176.1	2212.5	2194.3	2097.3	1997.3	1903.4	1864.0	1803.4
50°	1903.4	1994.3	2076.1	2151.9	2194.3	2158.0	2070.1	1973.1	1864.0	1800.3	1748.8
52.5°	1842.8	1954.9	2045.8	2070.1	2124.6	2103.4	2036.7	1930.6	1827.6	1773.0	1730.6
55°	1754.9	1873.1	1997.3	2027.6	2106.4	2073.1	1973.1	1873.1	1785.2	1703.3	1648.8
57.5°	1721.5	1836.7	1957.9	1997.3	2045.8	1991.3	1967.0	1860.9	1721.5	1679.1	1594.2
60°	1636.7	1782.1	1882.2	1973.1	1976.1	1961.0	1918.5	1797.3	1682.1	1603.3	1542.7
62.5°	1570.0	1706.4	1785.2	1870.0	1921.6	1879.1	1836.7	1724.6	1600.3	1512.4	1442.7
65°	1473.0	1597.3	1663.9	1715.5	1773.0	1767.0	1694.2	1612.4	1482.1	1412.4	1345.7
67.5°	1324.5	1433.6	1524.5	1573.0	1609.4	1600.3	1545.7	1488.1	1354.8	1285.1	1236.6
70°	1145.7	1257.8	1315.4	1342.7	1379.0	1397.2	1354.8	1327.5	1209.3	1118.4	1072.9
72.5°	921.4	994.1	1079.0	1103.2	1118.4	1130.5	1130.5	1106.3	985.0	948.7	869.9
75°	678.9	736.5	800.1	800.1	827.4	830.5	836.5	821.4	730.4	681.9	663.8
77.5°	460.7	503.1	554.6	575.9	594.0	591.0	588.0	545.6	497.1	475.8	457.7
80°	300.1	342.5	366.7	394.0	412.2	409.2	415.2	384.9	363.7	327.3	333.4
82.5°	178.8	212.2	236.4	269.7	269.7	278.8	278.8	269.7	248.5	230.3	230.3
85°	84.9	112.1	127.3	148.5	160.6	163.7	145.5	124.3	103.0	94.0	103.0
87.5°	15.2	21.2	30.3	27.3	33.3	30.3	30.3	30.3	30.3	24.2	27.3
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: P529588

CATALOG NUMBER: GALN-SA4D-730-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2	9259.2
2.5°	8228.7	8380.3	8486.4	8662.2	8965.2	9207.7	9456.2	9641.1	9662.3	9716.9
5°	6958.8	7040.7	7310.4	7662.0	7910.5	8319.7	8583.3	9062.2	9241.0	9432.0
7.5°	5434.3	5567.7	5928.3	6164.7	6710.3	7222.5	7752.9	8343.9	8580.3	8607.6
10°	4582.6	4776.6	5022.1	5401.0	5698.0	6267.8	6928.5	7586.2	7849.9	7895.3
12.5°	4025.0	4273.5	4600.8	4873.6	5158.5	5655.6	6289.0	7101.3	7443.8	7649.8
15°	3488.5	3746.1	4106.8	4485.6	4737.2	5331.3	6076.8	6992.2	7437.7	7619.5
17.5°	2936.9	3176.3	3473.3	3882.5	4388.7	5055.4	6043.5	7355.9	7843.8	8056.0
20°	2464.1	2597.4	2942.9	3364.2	3997.7	4773.6	6055.6	7892.3	8607.6	8701.6
22.5°	2279.2	2309.5	2445.9	2833.8	3527.9	4485.6	6270.8	8653.1	9465.3	9774.5
25°	2136.7	2130.7	2167.1	2427.7	3185.4	4373.5	6483.0	9353.2	10417.0	10753.4
27.5°	2057.9	1997.3	2000.4	2245.9	2942.9	4191.7	6755.8	10156.4	11496.0	11644.5
30°	2018.5	2006.4	1970.0	2070.1	2679.3	3918.9	6801.2	10947.4	12132.5	12347.7
32.5°	1994.3	1876.1	1830.6	1867.0	2430.7	3621.9	6970.9	11468.7	12920.5	12826.5
35°	1873.1	1767.0	1736.7	1773.0	2254.9	3455.2	6858.8	11923.3	13511.5	13669.1
37.5°	1827.6	1733.6	1673.0	1642.7	2091.3	3315.7	6801.2	12623.5	14084.3	14463.2
40°	1785.2	1685.1	1612.4	1582.1	1964.0	3130.9	6783.0	13163.0	14745.1	14972.4
42.5°	1736.7	1673.0	1591.2	1536.6	1809.4	2946.0	6573.9	13329.7	14948.1	15193.6
44°	1721.5	1624.5	1539.7	1521.5	1748.8	2852.0	6531.5	13481.2	15123.9	15496.7
45°	1706.4	1615.4	1518.5	1494.2	1727.6	2800.5	6473.9	13517.6	15414.9	15484.6
47.5°	1663.9	1606.3	1512.4	1445.7	1682.1	2688.4	6301.1	13311.5	15117.8	15130.0
50°	1630.6	1563.9	1466.9	1336.6	1621.5	2594.4	6379.9	13235.7	14402.6	14429.8
52.5°	1594.2	1494.2	1439.7	1215.4	1521.5	2515.6	6546.6	13578.2	14484.4	14478.3
55°	1551.8	1442.7	1309.3	1112.3	1354.8	2415.6	6949.7	14254.1	15242.1	15345.2
57.5°	1485.1	1391.2	1200.2	1021.4	1163.8	2224.6	6819.4	12959.9	14023.7	14041.9
60°	1397.2	1309.3	1088.1	951.7	954.7	1754.9	6098.1	10098.8	11065.6	11329.3
62.5°	1312.4	1263.9	994.1	851.7	812.3	1397.2	5155.5	8392.4	9498.7	9716.9
65°	1212.3	1094.1	912.3	775.9	697.1	979.0	3652.2	6270.8	7410.4	7704.4
67.5°	1085.0	957.7	803.2	681.9	597.1	654.7	1885.2	3564.3	4719.0	4891.8
70°	948.7	830.5	675.9	575.9	481.9	451.6	830.5	1700.3	2579.2	2758.1
72.5°	778.9	669.8	539.5	454.6	360.7	312.2	278.8	454.6	915.3	1063.8
75°	563.7	488.0	406.1	324.3	254.6	200.0	163.7	136.4	151.5	163.7
77.5°	415.2	354.6	300.1	230.3	178.8	142.4	112.1	84.9	81.8	78.8
80°	324.3	287.9	239.4	184.9	139.4	106.1	78.8	57.6	51.5	51.5
82.5°	254.6	236.4	197.0	151.5	115.2	84.9	57.6	39.4	33.3	33.3
85°	97.0	97.0	142.4	124.3	87.9	60.6	39.4	21.2	18.2	18.2
87.5°	24.2	24.2	24.2	24.2	21.2	18.2	18.2	9.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)