

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: P529590

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529590
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-SA4D-730-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA 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: 20757 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - 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

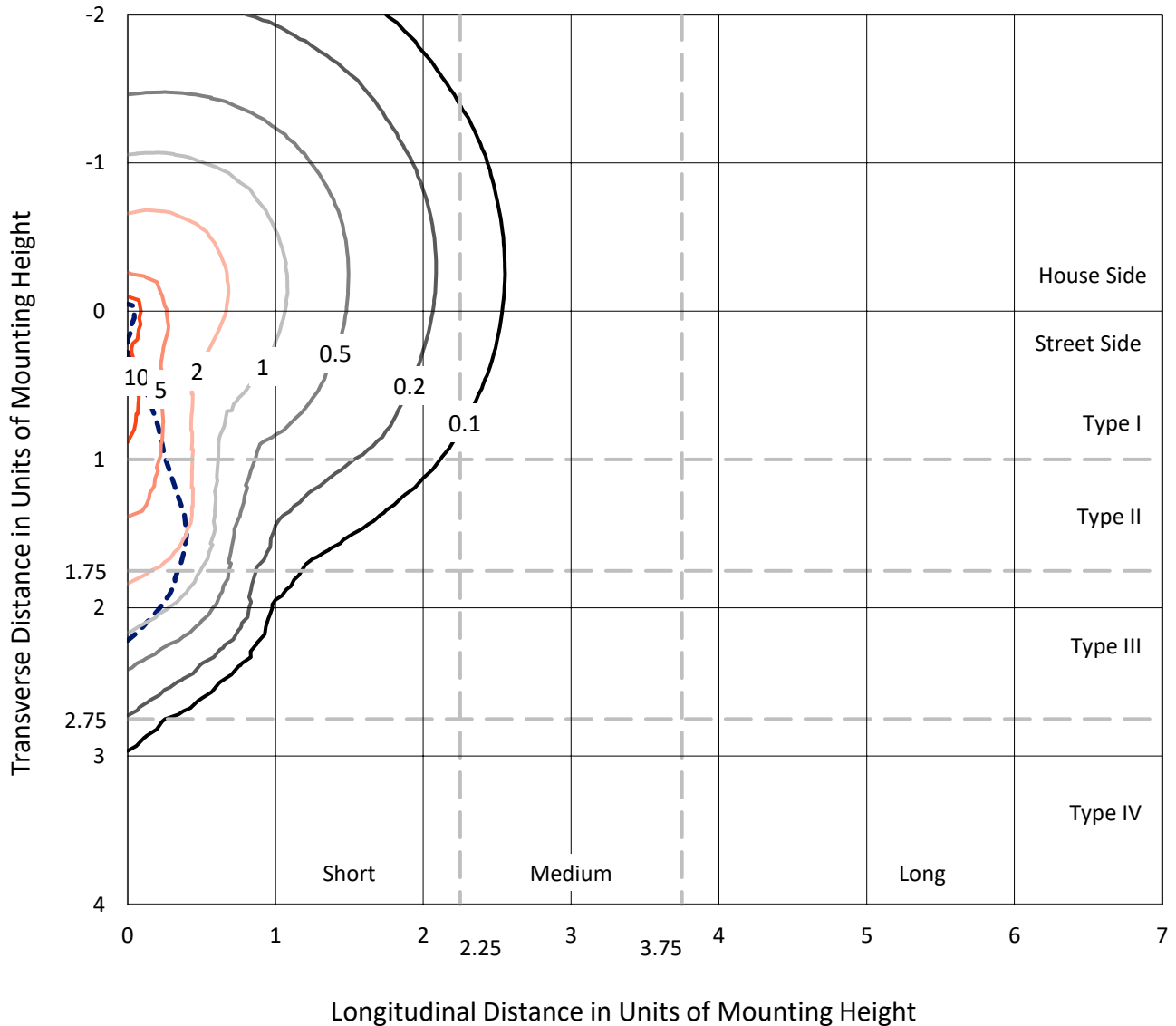




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Iso-Footcandle Lines of Horizontal Illumination

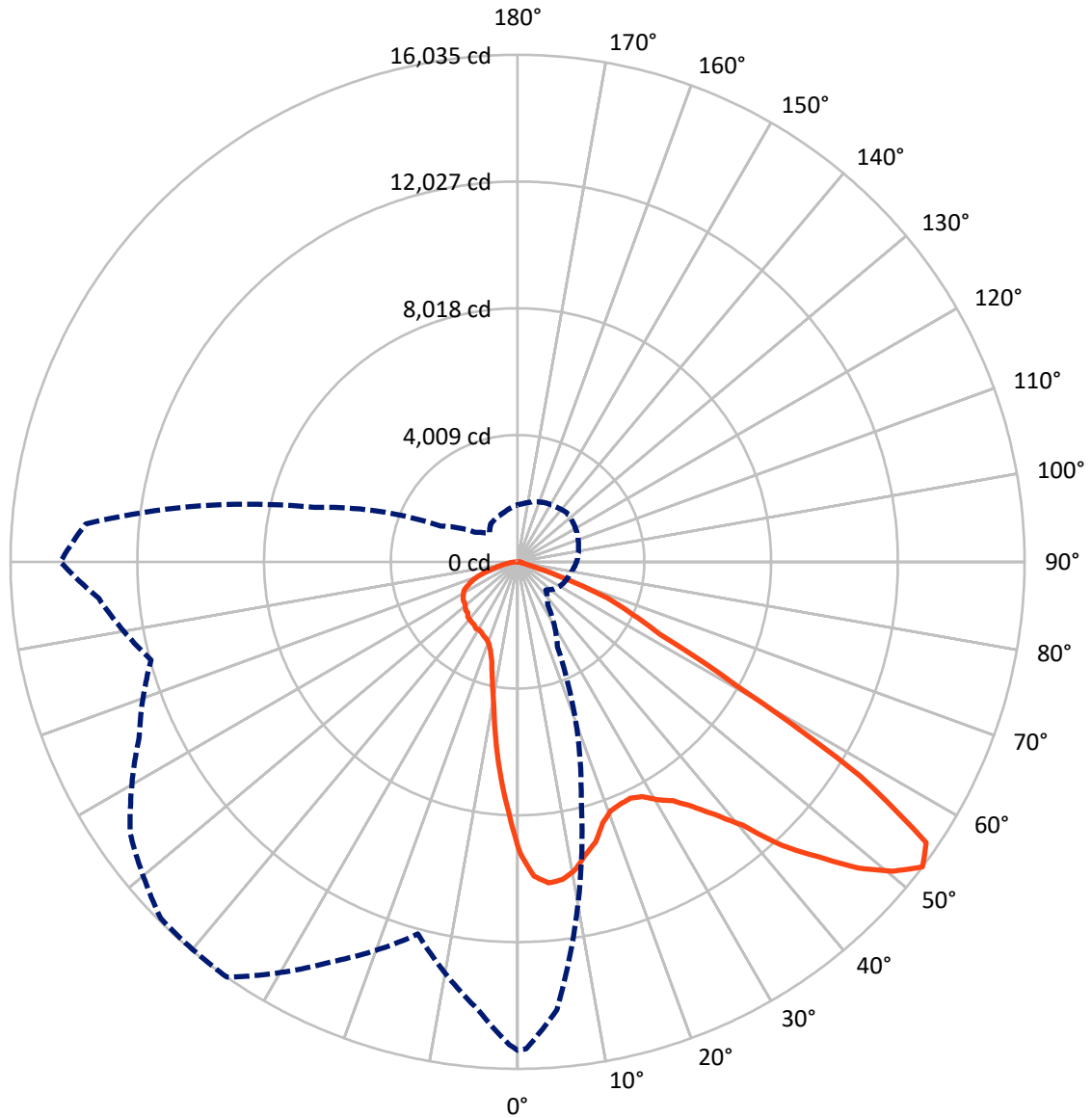
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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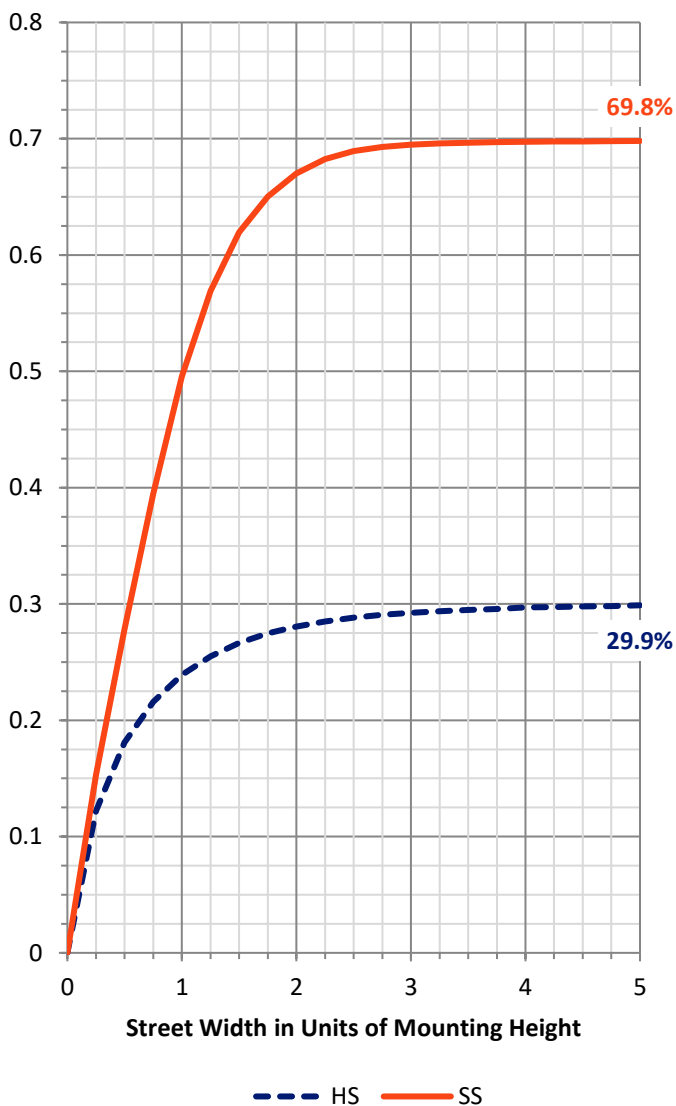
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6257.4	0.0	6257.4
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	14499.6	0.0	14499.6
	% Fixture	69.9	0.0	69.9
Total	Lumens	20757.0	0.0	20757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.8	3.4
10°-20°	1523.6	7.3
20°-30°	2302.0	11.1
30°-40°	3326.5	16.0
40°-50°	4426.9	21.3
50°-60°	4951.6	23.9
60°-70°	2790.7	13.4
70°-80°	622.1	3.0
80°-90°	110.8	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°	20757.0	100.0
0°-180°	20757.0	100.0

Coefficient of Utilization



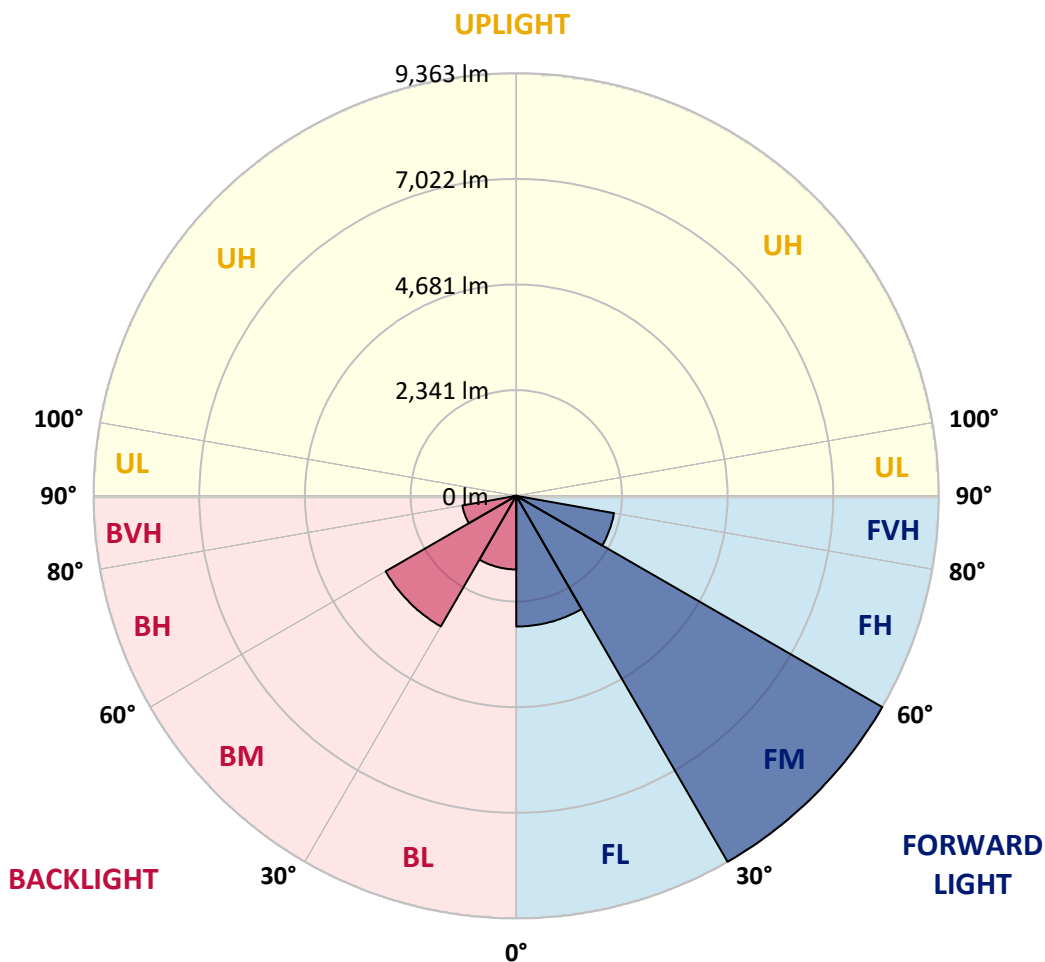
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2896.6	14.0			
FM (30°-60°)	9363.0	45.1			
FH (60°-80°)	2199.9	10.6			G2/5000
FVH (80°-90°)	40.1	0.2			G1/100
BL (0°-30°)	1631.8	7.9	B3/2500		
BM (30°-60°)	3342.1	16.1	B3/5000		
BH (60°-80°)	1212.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	70.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1
2.5°	9365.5	9515.9	9353.5	9064.7	8860.1	8673.6	8478.0	8438.9	8183.2	8138.0	7951.5
5°	8833.0	8799.9	8601.4	8222.3	7804.1	7425.0	7145.2	6874.5	6690.9	6477.3	6462.3
7.5°	8186.2	7993.6	7879.3	7304.7	6787.2	6191.5	5935.8	5523.6	5394.3	5201.7	5102.4
10°	7608.5	7467.1	7199.4	6624.8	5902.7	5508.6	5234.8	5012.2	4861.8	4663.2	4413.5
12.5°	7322.7	7265.6	6964.7	6074.2	5538.7	5117.5	4924.9	4708.3	4452.6	4133.7	4010.4
15°	7373.9	7181.3	6952.7	5968.9	5228.8	4822.7	4515.8	4245.0	3917.1	3613.2	3435.7
17.5°	7756.0	7608.5	7151.2	6035.1	5111.5	4524.8	3968.2	3568.1	3273.3	2999.5	2876.1
20°	8508.1	8294.5	7780.0	6119.3	4858.8	4109.6	3471.8	2978.4	2662.5	2518.1	2476.0
22.5°	9341.5	9215.1	8393.8	6308.9	4657.2	3724.5	2945.3	2451.9	2334.6	2295.5	2373.7
25°	10355.3	10027.4	9347.5	6618.7	4500.7	3396.6	2500.1	2226.3	2166.1	2205.2	2295.5
27.5°	11125.5	11038.3	10015.4	6910.6	4287.1	3002.5	2250.4	2069.9	2087.9	2127.0	2211.3
30°	12040.1	11597.8	10662.2	7112.1	4094.6	2731.7	2075.9	2027.7	2045.8	2112.0	2154.1
32.5°	12590.7	12425.2	11068.3	7416.0	3872.0	2497.1	1940.5	1895.4	1922.4	2021.7	2121.0
35°	13291.6	12963.7	11570.8	7494.2	3715.5	2403.8	1844.2	1811.1	1874.3	1943.5	2054.8
37.5°	14110.0	13884.3	12265.7	7440.1	3631.3	2307.5	1763.0	1747.9	1793.1	1889.3	2018.7
40°	14594.3	14525.1	12629.8	7473.2	3498.9	2223.3	1669.7	1687.8	1781.0	1856.3	1982.6
42.5°	15060.6	14609.4	13168.3	7461.1	3414.7	2109.0	1678.8	1657.7	1729.9	1817.1	1937.5
45°	15162.9	14714.7	13294.6	7376.9	3312.4	1997.7	1609.6	1618.6	1705.8	1814.1	1892.4
47.5°	15096.7	14765.8	13529.3	7352.8	3216.1	1919.4	1507.3	1615.6	1666.7	1754.0	1865.3
50°	15051.6	15033.6	13727.9	7467.1	3086.7	1796.1	1383.9	1576.5	1627.6	1714.9	1835.2
52.5°	15448.7	15409.6	14224.3	7768.0	2984.5	1663.7	1257.6	1477.2	1600.5	1684.8	1802.1
55°	15689.4	15517.9	15075.7	8138.0	2813.0	1489.2	1170.3	1353.8	1534.3	1609.6	1729.9
57.5°	14113.0	13995.6	13637.6	7596.5	2524.1	1260.6	1062.0	1227.5	1444.1	1561.4	1684.8
60°	11742.2	11558.7	10641.1	6456.3	1862.3	980.8	995.8	1128.2	1420.0	1465.1	1609.6
62.5°	11071.3	10617.1	9368.5	5195.7	1429.0	842.4	893.5	1037.9	1293.7	1368.9	1513.3
65°	8784.9	8447.9	6703.0	3751.6	956.7	731.1	815.3	935.6	1116.2	1263.6	1396.0
67.5°	5499.6	5177.7	3577.1	1775.0	667.9	625.8	728.1	854.4	1001.8	1134.2	1281.6
70°	2873.1	2521.1	1651.7	640.8	460.3	511.4	607.7	728.1	872.5	980.8	1095.1
72.5°	1071.0	869.5	538.5	276.8	318.9	391.1	493.4	580.6	682.9	815.3	878.5
75°	165.5	141.4	138.4	168.5	216.6	282.8	352.0	439.2	529.5	613.7	655.9
77.5°	78.2	75.2	84.2	111.3	144.4	201.6	255.7	340.0	412.2	466.3	490.4
80°	51.1	48.1	54.2	75.2	108.3	150.4	204.6	261.7	327.9	373.1	367.0
82.5°	30.1	33.1	33.1	51.1	75.2	108.3	147.4	198.6	243.7	282.8	258.7
85°	18.1	15.0	15.0	30.1	51.1	87.2	123.3	84.2	87.2	87.2	99.3
87.5°	6.0	6.0	6.0	3.0	6.0	6.0	9.0	15.0	18.1	21.1	27.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1
2.5°	7945.5	8038.8	8005.7	7888.3	7978.6	7993.6	7933.5	8141.1	8180.2	8117.0	8135.0
5°	6441.2	6465.3	6519.5	6633.8	6715.0	6811.3	6811.3	6817.3	6736.1	6940.7	6880.5
7.5°	5018.2	5033.3	5096.4	5340.1	5409.3	5592.8	5671.1	5616.9	5454.4	5385.2	5442.4
10°	4332.3	4245.0	4224.0	4254.0	4410.5	4488.7	4554.9	4536.8	4509.8	4455.6	4395.4
12.5°	3875.0	3811.8	3760.6	3688.4	3697.5	3772.7	3823.8	3781.7	3793.7	3805.8	3823.8
15°	3378.6	3333.4	3306.4	3198.1	3186.0	3237.2	3255.2	3279.3	3324.4	3327.4	3306.4
17.5°	2852.1	2813.0	2873.1	2933.3	2891.2	2894.2	2927.3	2948.3	2936.3	2882.2	2855.1
20°	2491.1	2533.2	2593.3	2650.5	2695.6	2722.7	2734.7	2701.6	2662.5	2551.2	2548.2
22.5°	2385.8	2439.9	2491.1	2578.3	2620.4	2689.6	2626.4	2551.2	2497.1	2442.9	2379.7
25°	2307.5	2352.7	2455.0	2488.0	2569.3	2626.4	2581.3	2506.1	2412.8	2334.6	2286.5
27.5°	2250.4	2301.5	2367.7	2458.0	2521.1	2554.2	2509.1	2479.0	2382.7	2289.5	2220.3
30°	2214.3	2268.4	2388.8	2464.0	2518.1	2545.2	2467.0	2430.9	2361.7	2283.5	2223.3
32.5°	2190.2	2238.3	2340.6	2436.9	2473.0	2473.0	2485.0	2442.9	2346.6	2214.3	2163.1
35°	2112.0	2178.2	2262.4	2373.7	2439.9	2479.0	2418.8	2370.7	2307.5	2172.2	2078.9
37.5°	2066.9	2112.0	2220.3	2325.6	2382.7	2424.9	2400.8	2316.6	2232.3	2121.0	2045.8
40°	2018.7	2090.9	2187.2	2286.5	2349.7	2391.8	2373.7	2274.4	2172.2	2066.9	2015.7
42.5°	1985.6	2033.8	2133.0	2244.4	2319.6	2400.8	2346.6	2223.3	2151.1	2006.7	1949.5
45°	1958.5	2036.8	2142.1	2187.2	2265.4	2349.7	2253.4	2178.2	2093.9	1988.6	1940.5
47.5°	1925.5	1997.7	2066.9	2187.2	2223.3	2262.4	2244.4	2124.0	2051.8	1937.5	1904.4
50°	1913.4	1940.5	2066.9	2133.0	2184.2	2223.3	2175.2	2084.9	2015.7	1898.4	1826.2
52.5°	1865.3	1916.4	1997.7	2084.9	2148.1	2196.2	2118.0	2060.8	1967.6	1844.2	1799.1
55°	1805.1	1835.2	1979.6	2069.9	2103.0	2136.0	2106.0	2012.7	1916.4	1790.1	1744.9
57.5°	1726.9	1796.1	1913.4	2039.8	2081.9	2099.9	2051.8	1976.6	1856.3	1744.9	1672.7
60°	1645.7	1717.9	1847.2	1949.5	1991.6	2057.8	1985.6	1940.5	1802.1	1678.8	1600.5
62.5°	1564.4	1645.7	1741.9	1871.3	1907.4	1934.5	1916.4	1853.2	1741.9	1603.5	1507.3
65°	1468.2	1528.3	1648.7	1714.9	1738.9	1802.1	1738.9	1714.9	1615.6	1483.2	1402.0
67.5°	1323.7	1374.9	1480.2	1543.4	1561.4	1588.5	1585.5	1558.4	1447.1	1356.8	1284.6
70°	1158.3	1203.4	1269.6	1344.8	1353.8	1386.9	1356.8	1350.8	1278.6	1155.3	1116.2
72.5°	929.6	971.8	1059.0	1092.1	1095.1	1107.1	1092.1	1071.0	1053.0	923.6	884.5
75°	713.0	737.1	779.2	809.3	809.3	824.3	815.3	794.2	746.1	664.9	625.8
77.5°	496.4	520.5	574.6	592.7	589.7	595.7	568.6	547.6	475.3	433.2	400.1
80°	361.0	376.1	403.1	415.2	418.2	427.2	394.1	376.1	333.9	285.8	270.8
82.5°	261.7	270.8	273.8	288.8	288.8	273.8	264.7	246.7	216.6	186.5	174.5
85°	108.3	111.3	114.3	132.4	135.4	162.5	150.4	141.4	123.3	105.3	96.3
87.5°	27.1	30.1	39.1	33.1	39.1	39.1	42.1	48.1	48.1	39.1	39.1
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°	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1
2.5°	8204.2	8228.3	8535.2	8574.3	8724.7	8878.1	9188.0	9410.6	9591.2	9708.5	9741.6
5°	6943.7	7097.1	7238.5	7467.1	7674.7	7969.6	8309.5	8730.7	9260.2	9531.0	9639.3
7.5°	5436.4	5616.9	5821.5	6044.1	6348.0	6877.5	7331.8	7819.1	8496.1	8775.8	9200.1
10°	4437.6	4639.1	4909.9	5081.4	5448.4	5953.9	6483.4	7046.0	7692.8	8095.9	8586.3
12.5°	3923.1	4088.6	4338.3	4699.3	4973.1	5301.0	5695.1	6405.1	7331.8	7713.8	8050.8
15°	3354.5	3538.0	3826.8	4227.0	4554.9	4946.0	5388.3	6161.4	7148.2	7737.9	8023.7
17.5°	2885.2	3017.5	3321.4	3667.4	4043.4	4470.7	5105.5	6149.4	7340.8	8095.9	8562.2
20°	2560.2	2578.3	2743.8	3038.6	3550.1	4106.6	4931.0	6089.2	7957.5	8712.7	9302.3
22.5°	2355.7	2337.6	2340.6	2590.3	2948.3	3748.6	4657.2	6293.8	8658.5	9693.4	10090.6
25°	2253.4	2205.2	2175.2	2229.3	2554.2	3324.4	4449.6	6564.6	9413.7	10502.7	10990.1
27.5°	2199.2	2115.0	2054.8	2063.8	2301.5	3110.8	4320.2	6681.9	10162.8	11630.9	11802.4
30°	2178.2	2072.9	1985.6	1955.5	2112.0	2813.0	4043.4	6883.5	10833.7	12250.7	12398.1
32.5°	2103.0	1973.6	1889.3	1862.3	1925.5	2551.2	3844.9	7027.9	11426.4	12924.6	12873.5
35°	2015.7	1907.4	1802.1	1751.0	1796.1	2382.7	3685.4	6958.7	12124.3	13448.1	13421.0
37.5°	2006.7	1865.3	1778.0	1693.8	1690.8	2175.2	3468.8	7024.9	12569.6	14386.7	14016.7
40°	1928.5	1838.2	1723.9	1654.7	1615.6	2069.9	3258.2	6868.4	13222.4	14765.8	14401.8
42.5°	1931.5	1796.1	1696.8	1615.6	1576.5	1916.4	3113.8	6826.3	13451.1	15382.6	14582.3
45°	1883.3	1751.0	1666.7	1570.4	1549.4	1799.1	2975.4	6630.8	13854.2	15412.6	14356.7
47.5°	1835.2	1717.9	1627.6	1513.3	1465.1	1757.0	2867.1	6468.3	13643.6	15129.8	14043.8
50°	1802.1	1666.7	1582.5	1501.3	1365.9	1684.8	2725.7	6429.2	13348.8	14747.8	13463.1
52.5°	1744.9	1624.6	1537.4	1474.2	1257.6	1618.6	2671.6	6657.9	13709.8	14461.9	13294.6
55°	1690.8	1567.4	1456.1	1332.8	1167.3	1444.1	2521.1	6871.5	14236.3	15120.8	14058.8
57.5°	1633.6	1516.3	1396.0	1248.5	1080.1	1263.6	2364.7	6910.6	13249.5	13974.6	13345.8
60°	1558.4	1408.0	1317.7	1125.2	986.8	1047.0	1874.3	6092.3	10277.1	11670.0	11691.1
62.5°	1474.2	1311.7	1233.5	1007.9	890.5	902.6	1528.3	5120.5	8336.6	9660.4	10235.0
65°	1362.9	1206.4	1113.2	932.6	821.3	782.2	1119.2	3751.6	6332.9	7837.2	8490.0
67.5°	1218.5	1071.0	953.7	812.3	734.1	670.9	764.2	2112.0	3739.6	5261.9	5460.5
70°	1065.0	938.7	815.3	698.0	610.7	565.6	559.6	935.6	1787.1	2831.0	3222.1
72.5°	839.4	749.1	649.8	562.6	505.4	439.2	400.1	388.1	604.7	1152.3	1591.5
75°	601.7	526.5	469.3	412.2	370.0	333.9	303.9	276.8	252.7	288.8	397.1
77.5°	379.1	352.0	306.9	291.8	267.8	258.7	246.7	231.7	213.6	201.6	201.6
80°	255.7	237.7	222.6	219.6	210.6	207.6	210.6	195.6	177.5	162.5	168.5
82.5°	171.5	168.5	165.5	162.5	165.5	168.5	174.5	171.5	156.4	147.4	150.4
85°	102.3	108.3	114.3	120.3	132.4	117.3	96.3	81.2	72.2	66.2	63.2
87.5°	39.1	54.2	48.1	45.1	48.1	45.1	42.1	39.1	33.1	30.1	30.1
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: P529590

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1	9212.1
2.5°	9961.2	10021.4	10072.5	10060.5	9955.2	9813.8	9756.6	9464.8	9404.6	9365.5
5°	10096.6	10445.6	10520.8	10475.7	10201.9	9855.9	9519.0	9091.7	8842.0	8833.0
7.5°	9846.9	10277.1	10412.5	10514.8	10150.7	9549.0	8971.4	8330.6	8174.1	8186.2
10°	9212.1	9898.0	10232.0	10337.3	9919.1	9398.6	8598.3	7948.5	7614.6	7608.5
12.5°	8860.1	9398.6	9491.9	9639.3	9515.9	8989.5	8381.7	7653.7	7328.8	7322.7
15°	8547.2	8902.2	8929.3	9136.9	9203.1	8848.1	8438.9	7662.7	7401.0	7373.9
17.5°	8821.0	8574.3	8472.0	8499.1	8694.6	8824.0	8769.8	8174.1	7906.4	7756.0
20°	9004.5	8453.9	8144.1	8174.1	8405.8	8878.1	9263.2	8914.2	8490.0	8508.1
22.5°	9494.9	8472.0	7987.6	7954.5	8321.6	9160.9	9819.8	9849.9	9440.7	9341.5
25°	10229.0	8679.6	7939.5	7930.5	8282.5	9464.8	10469.6	10957.0	10538.8	10355.3
27.5°	10818.6	9004.5	8089.9	8120.0	8405.8	9711.5	11023.2	11670.0	11351.1	11125.5
30°	11336.1	9341.5	8300.5	8162.1	8736.7	9840.9	11260.9	12482.3	12226.6	12040.1
32.5°	11549.7	9819.8	8634.4	8405.8	9010.5	9997.3	11754.3	13270.6	13051.0	12590.7
35°	11910.7	10087.6	8815.0	8796.9	9488.9	10373.4	11985.9	13791.0	13700.8	13291.6
37.5°	12199.5	10358.3	9455.8	9257.2	10144.7	11005.2	12359.0	14510.1	14302.5	14110.0
40°	12422.2	10842.7	10054.5	10316.2	10951.0	11579.8	12702.0	14555.2	15153.9	14594.3
42.5°	12217.6	11275.9	11038.3	11664.0	12265.7	12235.6	12741.1	14904.2	15352.5	15060.6
45°	12166.4	12010.0	12593.7	13162.3	13300.7	12780.2	12461.3	14519.1	15292.3	15162.9
47.5°	12043.1	12732.1	13748.9	14675.6	14465.0	13144.2	12127.3	14449.9	15328.4	15096.7
50°	12001.0	12888.5	14603.3	15505.9	15379.5	13460.1	11970.9	14004.7	15072.7	15051.6
52.5°	11998.0	13210.4	14958.4	15957.2	16035.4	13959.5	12184.5	14230.3	15271.2	15448.7
55°	12133.4	13108.1	14913.2	15707.5	15677.4	13736.9	12208.6	14380.7	15514.9	15689.4
57.5°	11444.4	11742.2	12307.8	12936.6	12774.2	11378.2	10902.9	13294.6	14239.3	14113.0
60°	9883.0	8950.3	8312.5	8282.5	7966.6	7530.3	8923.3	11865.6	11865.6	11742.2
62.5°	8655.5	5875.6	5048.3	4813.6	5039.3	5541.7	8607.4	11540.7	11212.7	11071.3
65°	7569.4	4485.7	3649.3	3583.1	3974.3	4732.4	7783.0	9831.8	9254.2	8784.9
67.5°	4870.8	3285.3	2713.7	2596.4	3068.7	3474.8	5180.7	6047.1	5683.1	5499.6
70°	3140.9	2139.1	1510.3	1417.0	1600.5	2142.1	3309.4	3526.0	2996.5	2873.1
72.5°	1486.2	923.6	529.5	436.2	490.4	818.3	1308.7	1408.0	1170.3	1071.0
75°	472.3	340.0	216.6	186.5	177.5	210.6	300.9	231.7	168.5	165.5
77.5°	210.6	201.6	171.5	144.4	126.4	105.3	87.2	72.2	75.2	78.2
80°	174.5	159.5	141.4	126.4	105.3	81.2	63.2	48.1	48.1	51.1
82.5°	153.4	138.4	123.3	105.3	90.3	66.2	48.1	33.1	30.1	30.1
85°	66.2	78.2	84.2	90.3	72.2	54.2	33.1	21.1	18.1	18.1
87.5°	27.1	24.1	21.1	18.1	15.0	15.0	12.0	9.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)