

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: P529616

Luminaire Tested: **GALN-SA4D-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529616
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-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 21231 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

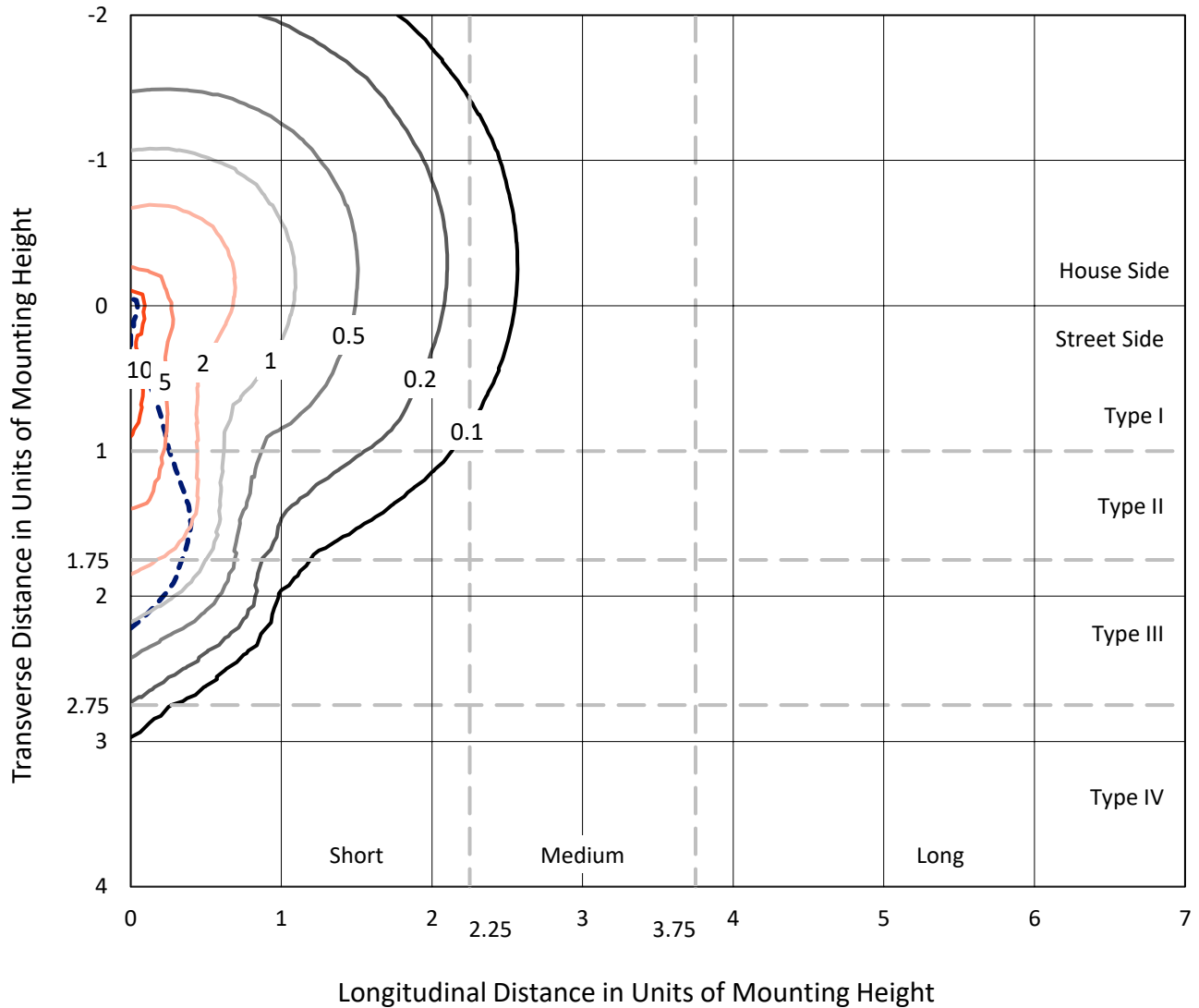
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

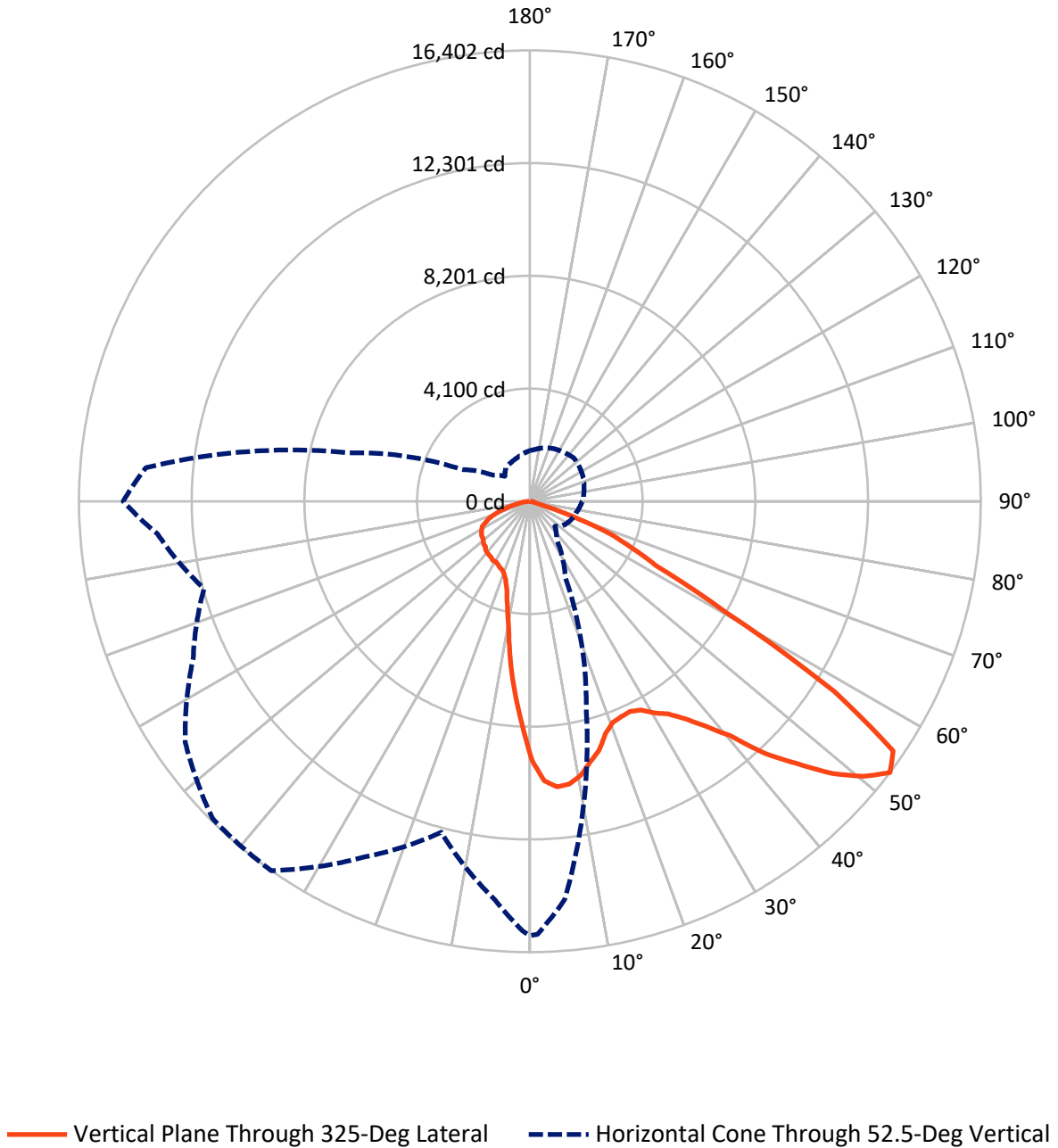
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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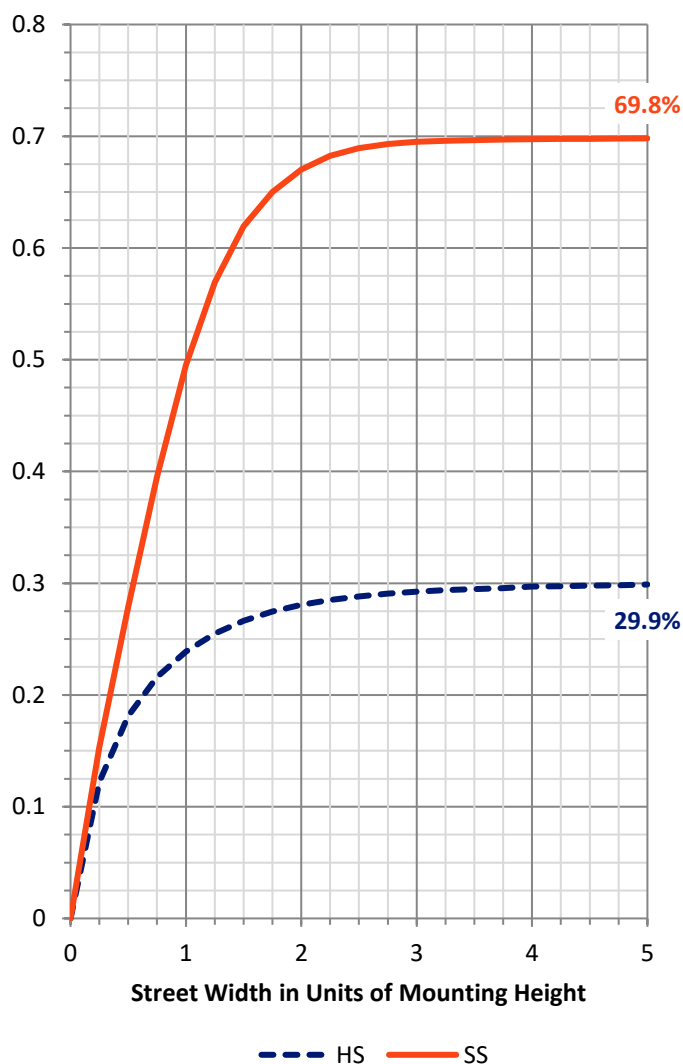
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6400.3	0.0	6400.3
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	14830.7	0.0	14830.7
	% Fixture	69.9	0.0	69.9
Total	Lumens	21231.0	0.0	21231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.9	3.4
10°-20°	1558.4	7.3
20°-30°	2354.6	11.1
30°-40°	3402.4	16.0
40°-50°	4528.0	21.3
50°-60°	5064.7	23.9
60°-70°	2854.4	13.4
70°-80°	636.3	3.0
80°-90°	113.3	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°	21231.0	100.0
0°-180°	21231.0	100.0

Coefficient of Utilization



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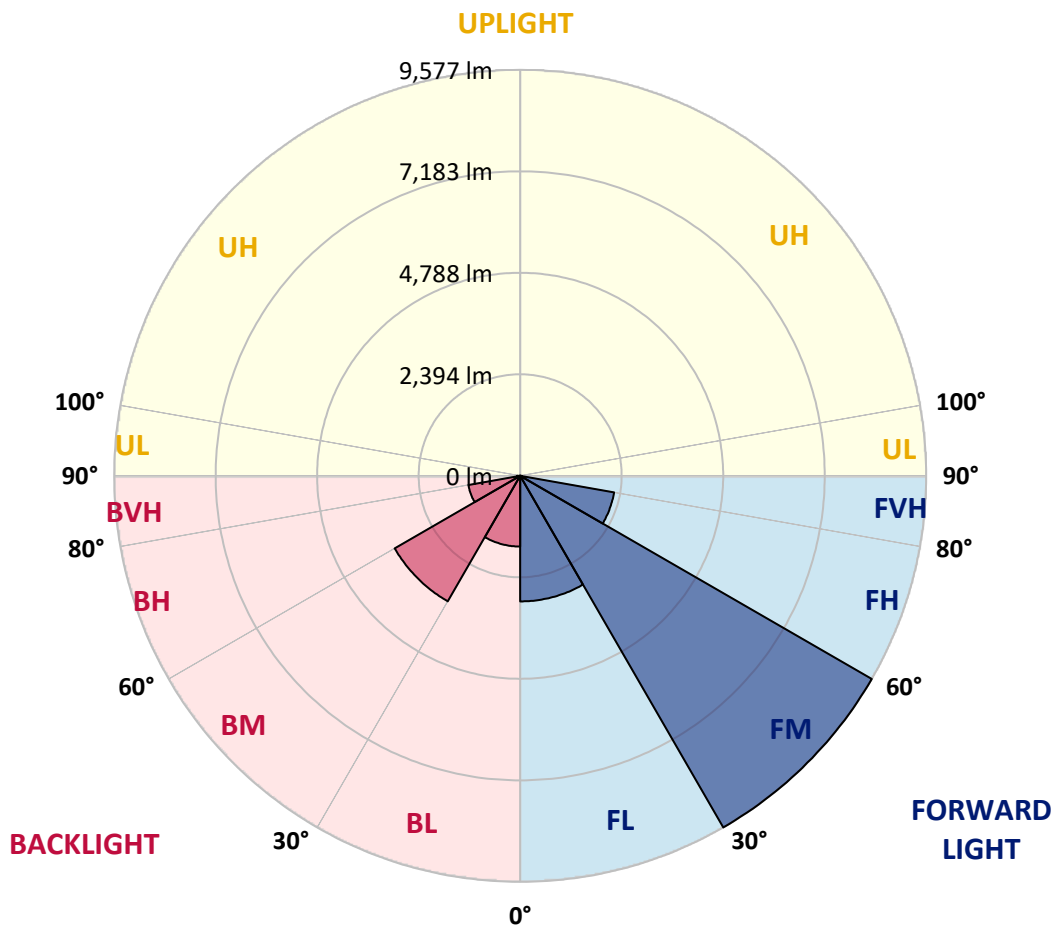
CATALOG NUMBER: GALN-SA4D-735-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2962.7	14.0			
FM (30°-60°)	9576.8	45.1			
FH (60°-80°)	2250.2	10.6			G2/5000
FVH (80°-90°)	41.0	0.2			G1/100
BL (0°-30°)	1669.0	7.9	B3/2500		
BM (30°-60°)	3418.4	16.1	B3/5000		
BH (60°-80°)	1240.6	5.8	B3/2500		G3/2500
BVH (80°-90°)	72.3	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°	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4
2.5°	9579.4	9733.2	9567.1	9271.7	9062.4	8871.6	8671.6	8631.6	8370.0	8323.9	8133.1
5°	9034.7	9000.9	8797.8	8410.0	7982.3	7594.6	7308.4	7031.4	6843.7	6625.3	6609.9
7.5°	8373.1	8176.2	8059.2	7471.5	6942.2	6332.9	6071.4	5649.8	5517.5	5320.5	5219.0
10°	7782.3	7637.7	7363.8	6776.0	6037.5	5634.4	5354.4	5126.6	4972.8	4769.7	4514.3
12.5°	7490.0	7431.5	7123.8	6212.9	5665.2	5234.4	5037.4	4815.8	4554.3	4228.1	4101.9
15°	7542.3	7345.3	7111.5	6105.2	5348.2	4932.8	4618.9	4342.0	4006.5	3695.7	3514.2
17.5°	7933.1	7782.3	7314.6	6172.9	5228.2	4628.1	4058.9	3649.6	3348.0	3068.0	2941.8
20°	8702.4	8483.9	7957.7	6259.1	4969.7	4203.5	3551.1	3046.4	2723.3	2575.6	2532.6
22.5°	9554.8	9425.5	8585.4	6452.9	4763.5	3809.6	3012.6	2507.9	2387.9	2347.9	2427.9
25°	10591.8	10256.4	9560.9	6769.9	4603.5	3474.2	2557.2	2277.1	2215.6	2255.6	2347.9
27.5°	11379.6	11290.3	10244.1	7068.4	4385.0	3071.1	2301.8	2117.1	2135.6	2175.6	2261.8
30°	12315.0	11862.7	10905.7	7274.5	4188.1	2794.1	2123.3	2074.0	2092.5	2160.2	2203.3
32.5°	12878.2	12708.9	11321.1	7585.3	3960.4	2554.1	1984.8	1938.6	1966.3	2067.9	2169.4
35°	13595.2	13259.7	11835.0	7665.4	3800.4	2458.7	1886.3	1852.5	1917.1	1987.9	2101.7
37.5°	14432.2	14201.4	12545.8	7610.0	3714.2	2360.2	1803.3	1787.9	1834.0	1932.5	2064.8
40°	14927.6	14856.8	12918.2	7643.8	3578.8	2274.1	1707.9	1726.3	1821.7	1898.6	2027.9
42.5°	15404.6	14943.0	13469.0	7631.5	3492.6	2157.1	1717.1	1695.5	1769.4	1858.6	1981.7
45°	15509.2	15050.7	13598.2	7545.3	3388.0	2043.3	1646.3	1655.5	1744.8	1855.6	1935.6
47.5°	15441.5	15103.0	13838.3	7520.7	3289.5	1963.3	1541.7	1652.5	1704.8	1794.0	1907.9
50°	15395.3	15376.9	14041.4	7637.7	3157.2	1837.1	1415.5	1612.5	1664.8	1754.0	1877.1
52.5°	15801.5	15761.5	14549.1	7945.4	3052.6	1701.7	1286.3	1510.9	1637.1	1723.2	1843.3
55°	16047.7	15872.3	15420.0	8323.9	2877.2	1523.2	1197.0	1384.7	1569.4	1646.3	1769.4
57.5°	14435.2	14315.2	13949.0	7770.0	2581.8	1289.4	1086.3	1255.5	1477.1	1597.1	1723.2
60°	12010.4	11822.7	10884.1	6603.7	1904.8	1003.2	1018.6	1154.0	1452.4	1498.6	1646.3
62.5°	11324.2	10859.5	9582.5	5314.4	1461.7	861.6	913.9	1061.6	1323.2	1400.1	1547.8
65°	8985.5	8640.8	6856.0	3837.3	978.6	747.8	833.9	957.0	1141.6	1292.4	1427.8
67.5°	5625.2	5295.9	3658.8	1815.6	683.1	640.1	744.7	873.9	1024.7	1160.1	1310.9
70°	2938.7	2578.7	1689.4	655.4	470.8	523.1	621.6	744.7	892.4	1003.2	1120.1
72.5°	1095.5	889.3	550.8	283.1	326.2	400.0	504.7	593.9	698.5	833.9	898.5
75°	169.2	144.6	141.6	172.3	221.6	289.3	360.0	449.3	541.6	627.8	670.8
77.5°	80.0	76.9	86.2	113.9	147.7	206.2	261.6	347.7	421.6	477.0	501.6
80°	52.3	49.2	55.4	76.9	110.8	153.9	209.3	267.7	335.4	381.6	375.4
82.5°	30.8	33.8	33.8	52.3	76.9	110.8	150.8	203.1	249.3	289.3	264.6
85°	18.5	15.4	15.4	30.8	52.3	89.2	126.2	86.2	89.2	89.2	101.5
87.5°	6.2	6.2	6.2	3.1	6.2	6.2	9.2	15.4	18.5	21.5	27.7
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°	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4
2.5°	8126.9	8222.3	8188.5	8068.5	8160.8	8176.2	8114.6	8327.0	8367.0	8302.3	8320.8
5°	6588.3	6612.9	6668.3	6785.3	6868.4	6966.8	6966.8	6973.0	6889.9	7099.1	7037.6
7.5°	5132.8	5148.2	5212.8	5462.1	5532.8	5720.6	5800.6	5745.2	5579.0	5508.2	5566.7
10°	4431.2	4342.0	4320.4	4351.2	4511.2	4591.2	4658.9	4640.4	4612.8	4557.4	4495.8
12.5°	3963.5	3898.8	3846.5	3772.7	3781.9	3858.8	3911.1	3868.1	3880.4	3892.7	3911.1
15°	3455.7	3409.6	3381.9	3271.1	3258.8	3311.1	3329.6	3354.2	3400.3	3403.4	3381.9
17.5°	2917.2	2877.2	2938.7	3000.3	2957.2	2960.3	2994.1	3015.7	3003.4	2948.0	2920.3
20°	2547.9	2591.0	2652.6	2711.0	2757.2	2784.9	2797.2	2763.3	2723.3	2609.5	2606.4
22.5°	2440.2	2495.6	2547.9	2637.2	2680.3	2751.0	2686.4	2609.5	2554.1	2498.7	2434.1
25°	2360.2	2406.4	2511.0	2544.9	2627.9	2686.4	2640.3	2563.3	2467.9	2387.9	2338.7
27.5°	2301.8	2354.1	2421.8	2514.1	2578.7	2612.6	2566.4	2535.6	2437.2	2341.8	2271.0
30°	2264.8	2320.2	2443.3	2520.2	2575.6	2603.3	2523.3	2486.4	2415.6	2335.6	2274.1
32.5°	2240.2	2289.5	2394.1	2492.5	2529.5	2529.5	2541.8	2498.7	2400.2	2264.8	2212.5
35°	2160.2	2227.9	2314.1	2427.9	2495.6	2535.6	2474.1	2424.8	2360.2	2221.8	2126.4
37.5°	2114.1	2160.2	2271.0	2378.7	2437.2	2480.2	2455.6	2369.5	2283.3	2169.4	2092.5
40°	2064.8	2138.7	2237.1	2338.7	2403.3	2446.4	2427.9	2326.4	2221.8	2114.1	2061.7
42.5°	2031.0	2080.2	2181.7	2295.6	2372.5	2455.6	2400.2	2274.1	2200.2	2052.5	1994.0
45°	2003.3	2083.3	2191.0	2237.1	2317.1	2403.3	2304.8	2227.9	2141.7	2034.0	1984.8
47.5°	1969.4	2043.3	2114.1	2237.1	2274.1	2314.1	2295.6	2172.5	2098.7	1981.7	1947.9
50°	1957.1	1984.8	2114.1	2181.7	2234.1	2274.1	2224.8	2132.5	2061.7	1941.7	1867.9
52.5°	1907.9	1960.2	2043.3	2132.5	2197.1	2246.4	2166.4	2107.9	2012.5	1886.3	1840.2
55°	1846.3	1877.1	2024.8	2117.1	2151.0	2184.8	2154.1	2058.7	1960.2	1830.9	1784.8
57.5°	1766.3	1837.1	1957.1	2086.4	2129.4	2147.9	2098.7	2021.7	1898.6	1784.8	1710.9
60°	1683.2	1757.1	1889.4	1994.0	2037.1	2104.8	2031.0	1984.8	1843.3	1717.1	1637.1
62.5°	1600.2	1683.2	1781.7	1914.0	1951.0	1978.7	1960.2	1895.6	1781.7	1640.2	1541.7
65°	1501.7	1563.2	1686.3	1754.0	1778.6	1843.3	1778.6	1754.0	1652.5	1517.1	1434.0
67.5°	1354.0	1406.3	1514.0	1578.6	1597.1	1624.8	1621.7	1594.0	1480.1	1387.8	1314.0
70°	1184.7	1230.9	1298.6	1375.5	1384.7	1418.6	1387.8	1381.7	1307.8	1181.7	1141.6
72.5°	950.9	993.9	1083.2	1117.0	1120.1	1132.4	1117.0	1095.5	1077.0	944.7	904.7
75°	729.3	753.9	797.0	827.8	827.8	843.2	833.9	812.4	763.2	680.1	640.1
77.5°	507.7	532.4	587.7	606.2	603.1	609.3	581.6	560.1	486.2	443.1	409.3
80°	369.3	384.7	412.3	424.7	427.7	437.0	403.1	384.7	341.6	292.3	276.9
82.5°	267.7	276.9	280.0	295.4	295.4	280.0	270.8	252.3	221.6	190.8	178.5
85°	110.8	113.9	116.9	135.4	138.5	166.2	153.9	144.6	126.2	107.7	98.5
87.5°	27.7	30.8	40.0	33.8	40.0	40.0	43.1	49.2	49.2	40.0	40.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4
2.5°	8391.6	8416.2	8730.1	8770.1	8923.9	9080.9	9397.8	9625.5	9810.2	9930.2	9964.0
5°	7102.2	7259.2	7403.8	7637.7	7850.0	8151.6	8499.3	8930.1	9471.7	9748.6	9859.4
7.5°	5560.5	5745.2	5954.4	6182.1	6492.9	7034.5	7499.2	7997.7	8690.1	8976.3	9410.1
10°	4538.9	4745.1	5022.0	5197.4	5572.8	6089.8	6631.4	7206.8	7868.5	8280.8	8782.4
12.5°	4012.7	4181.9	4437.4	4806.6	5086.6	5422.1	5825.2	6551.4	7499.2	7890.0	8234.6
15°	3431.1	3618.8	3914.2	4323.5	4658.9	5059.0	5511.3	6302.1	7311.5	7914.6	8206.9
17.5°	2951.1	3086.5	3397.3	3751.1	4135.8	4572.7	5222.0	6289.8	7508.4	8280.8	8757.8
20°	2618.7	2637.2	2806.4	3108.0	3631.1	4200.4	5043.6	6228.3	8139.2	8911.6	9514.8
22.5°	2409.5	2391.0	2394.1	2649.5	3015.7	3834.2	4763.5	6437.5	8856.2	9914.8	10321.0
25°	2304.8	2255.6	2224.8	2280.2	2612.6	3400.3	4551.2	6714.5	9628.6	10742.6	11241.1
27.5°	2249.4	2163.3	2101.7	2111.0	2354.1	3181.8	4418.9	6834.5	10394.8	11896.5	12071.9
30°	2227.9	2120.2	2031.0	2000.2	2160.2	2877.2	4135.8	7040.7	11081.1	12530.4	12681.2
32.5°	2151.0	2018.7	1932.5	1904.8	1969.4	2609.5	3932.7	7188.4	11687.3	13219.7	13167.4
35°	2061.7	1951.0	1843.3	1790.9	1837.1	2437.2	3769.6	7117.6	12401.2	13755.2	13727.5
37.5°	2052.5	1907.9	1818.6	1732.5	1729.4	2224.8	3548.0	7185.3	12856.6	14715.3	14336.8
40°	1972.5	1880.2	1763.2	1692.5	1652.5	2117.1	3332.6	7025.3	13524.4	15103.0	14730.7
42.5°	1975.6	1837.1	1735.6	1652.5	1612.5	1960.2	3184.9	6982.2	13758.3	15733.8	14915.3
45°	1926.3	1790.9	1704.8	1606.3	1584.8	1840.2	3043.4	6782.2	14170.6	15764.6	14684.5
47.5°	1877.1	1757.1	1664.8	1547.8	1498.6	1797.1	2932.6	6616.0	13955.2	15475.3	14364.5
50°	1843.3	1704.8	1618.6	1535.5	1397.1	1723.2	2788.0	6576.0	13653.6	15084.5	13770.6
52.5°	1784.8	1661.7	1572.5	1507.8	1286.3	1655.5	2732.6	6809.9	14022.9	14792.2	13598.2
55°	1729.4	1603.2	1489.4	1363.2	1194.0	1477.1	2578.7	7028.4	14561.4	15466.1	14379.9
57.5°	1670.9	1550.9	1427.8	1277.0	1104.7	1292.4	2418.7	7068.4	13552.1	14293.7	13650.5
60°	1594.0	1440.1	1347.8	1150.9	1009.3	1070.9	1917.1	6231.4	10511.8	11936.5	11958.1
62.5°	1507.8	1341.7	1261.7	1030.9	910.9	923.2	1563.2	5237.4	8527.0	9881.0	10468.7
65°	1394.0	1234.0	1138.6	953.9	840.1	800.1	1144.7	3837.3	6477.5	8016.2	8683.9
67.5°	1246.3	1095.5	975.5	830.8	750.8	686.2	781.6	2160.2	3825.0	5382.1	5585.2
70°	1089.3	960.1	833.9	713.9	624.7	578.5	572.4	957.0	1827.9	2895.7	3295.7
72.5°	858.5	766.2	664.7	575.4	517.0	449.3	409.3	397.0	618.5	1178.6	1627.8
75°	615.4	538.5	480.0	421.6	378.5	341.6	310.8	283.1	258.5	295.4	406.2
77.5°	387.7	360.0	313.9	298.5	273.9	264.6	252.3	236.9	218.5	206.2	206.2
80°	261.6	243.1	227.7	224.6	215.4	212.3	215.4	200.0	181.6	166.2	172.3
82.5°	175.4	172.3	169.2	166.2	169.2	172.3	178.5	175.4	160.0	150.8	153.9
85°	104.6	110.8	116.9	123.1	135.4	120.0	98.5	83.1	73.9	67.7	64.6
87.5°	40.0	55.4	49.2	46.2	49.2	46.2	43.1	40.0	33.8	30.8	30.8
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: P529616

CATALOG NUMBER: GALN-SA4D-735-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4	9422.4
2.5°	10188.7	10250.2	10302.5	10290.2	10182.5	10037.9	9979.4	9680.9	9619.4	9579.4
5°	10327.2	10684.1	10761.0	10714.9	10434.9	10081.0	9736.3	9299.4	9044.0	9034.7
7.5°	10071.7	10511.8	10650.3	10754.9	10382.5	9767.1	9176.3	8520.8	8360.8	8373.1
10°	9422.4	10124.1	10465.6	10573.3	10145.6	9613.2	8794.7	8130.0	7788.4	7782.3
12.5°	9062.4	9613.2	9708.6	9859.4	9733.2	9194.7	8573.1	7828.4	7496.1	7490.0
15°	8742.4	9105.5	9133.2	9345.5	9413.2	9050.1	8631.6	7837.7	7570.0	7542.3
17.5°	9022.4	8770.1	8665.5	8693.1	8893.2	9025.5	8970.1	8360.8	8086.9	7933.1
20°	9210.1	8647.0	8330.0	8360.8	8597.8	9080.9	9474.8	9117.8	8683.9	8702.4
22.5°	9711.7	8665.5	8170.0	8136.2	8511.6	9370.1	10044.0	10074.8	9656.3	9554.8
25°	10462.5	8877.8	8120.8	8111.6	8471.6	9680.9	10708.7	11207.2	10779.5	10591.8
27.5°	11065.7	9210.1	8274.6	8305.4	8597.8	9933.3	11274.9	11936.5	11610.4	11379.6
30°	11595.0	9554.8	8490.1	8348.5	8936.2	10065.6	11518.0	12767.4	12505.8	12315.0
32.5°	11813.4	10044.0	8831.6	8597.8	9216.3	10225.6	12022.7	13573.6	13349.0	12878.2
35°	12182.7	10317.9	9016.3	8997.8	9705.6	10610.3	12259.6	14106.0	14013.7	13595.2
37.5°	12478.1	10594.9	9671.7	9468.6	10376.4	11256.5	12641.2	14841.4	14629.1	14432.2
40°	12705.8	11090.3	10284.1	10551.8	11201.1	11844.2	12992.0	14887.6	15500.0	14927.6
42.5°	12496.6	11533.4	11290.3	11930.4	12545.8	12515.1	13032.0	15244.5	15703.1	15404.6
45°	12444.3	12284.3	12881.2	13462.8	13604.4	13072.0	12745.8	14850.7	15641.5	15509.2
47.5°	12318.1	13022.8	14062.9	15010.7	14795.3	13444.4	12404.3	14779.9	15678.4	15441.5
50°	12275.0	13182.8	14936.8	15860.0	15730.7	13767.5	12244.3	14324.5	15416.9	15395.3
52.5°	12272.0	13512.1	15299.9	16321.6	16401.6	14278.3	12462.7	14555.3	15620.0	15801.5
55°	12410.4	13407.4	15253.8	16066.2	16035.4	14050.6	12487.4	14709.1	15869.2	16047.7
57.5°	11705.7	12010.4	12588.9	13232.0	13065.9	11638.0	11151.8	13598.2	14564.5	14435.2
60°	10108.7	9154.7	8502.4	8471.6	8148.5	7702.3	9127.0	12136.6	12136.6	12010.4
62.5°	8853.2	6009.8	5163.6	4923.6	5154.3	5668.2	8803.9	11804.2	11468.8	11324.2
65°	7742.3	4588.1	3732.7	3665.0	4065.0	4840.5	7960.8	10056.4	9465.5	8985.5
67.5°	4982.0	3360.3	2775.7	2655.6	3138.8	3554.2	5299.0	6185.2	5812.9	5625.2
70°	3212.6	2187.9	1544.8	1449.4	1637.1	2191.0	3384.9	3606.5	3064.9	2938.7
72.5°	1520.1	944.7	541.6	446.2	501.6	837.0	1338.6	1440.1	1197.0	1095.5
75°	483.1	347.7	221.6	190.8	181.6	215.4	307.7	236.9	172.3	169.2
77.5°	215.4	206.2	175.4	147.7	129.2	107.7	89.2	73.9	76.9	80.0
80°	178.5	163.1	144.6	129.2	107.7	83.1	64.6	49.2	49.2	52.3
82.5°	156.9	141.6	126.2	107.7	92.3	67.7	49.2	33.8	30.8	30.8
85°	67.7	80.0	86.2	92.3	73.9	55.4	33.8	21.5	18.5	18.5
87.5°	27.7	24.6	21.5	18.5	15.4	15.4	12.3	9.2	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)