

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: P452235

Luminaire Tested: **GALN-SA3A-830-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9351 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93
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



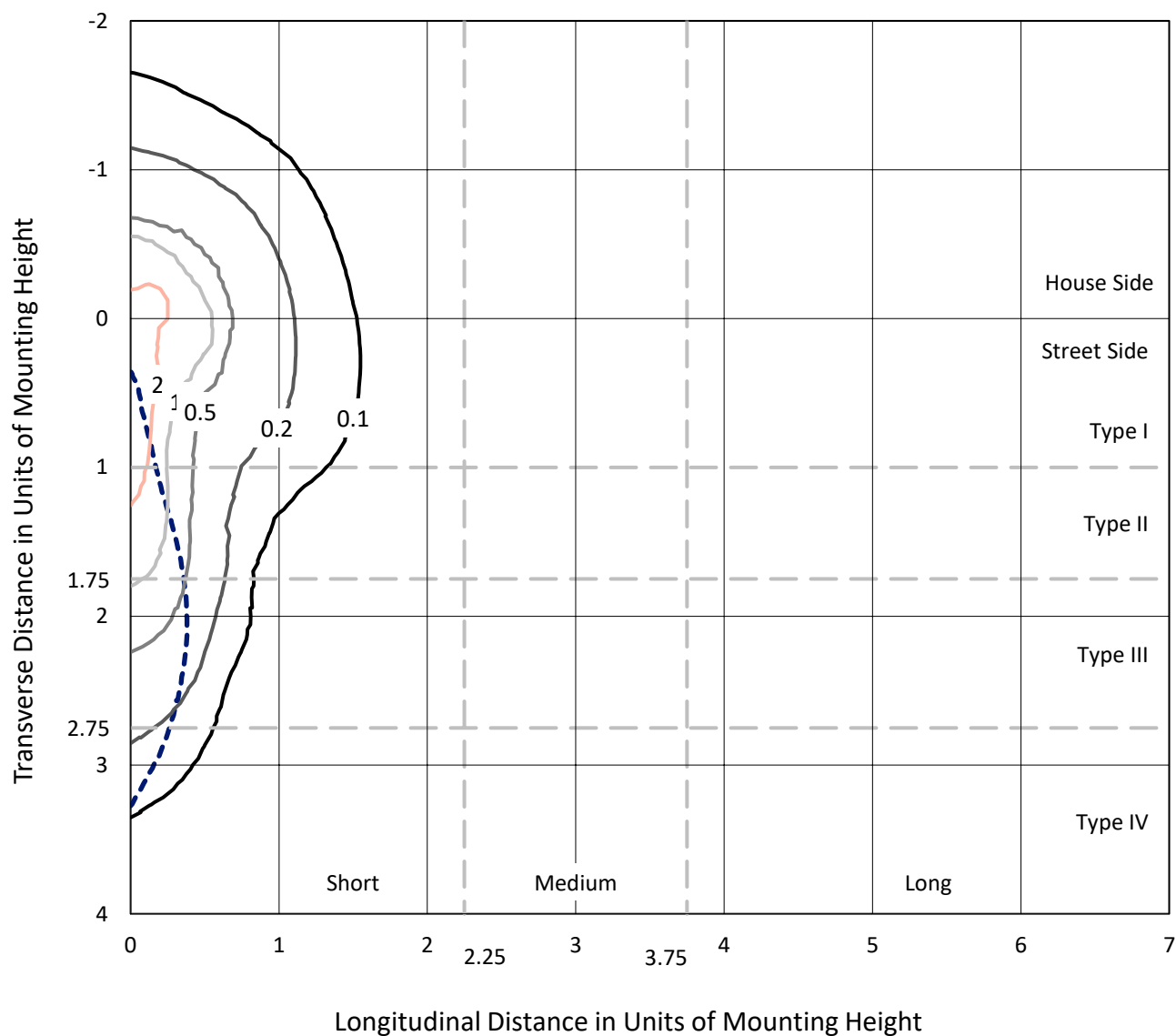
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



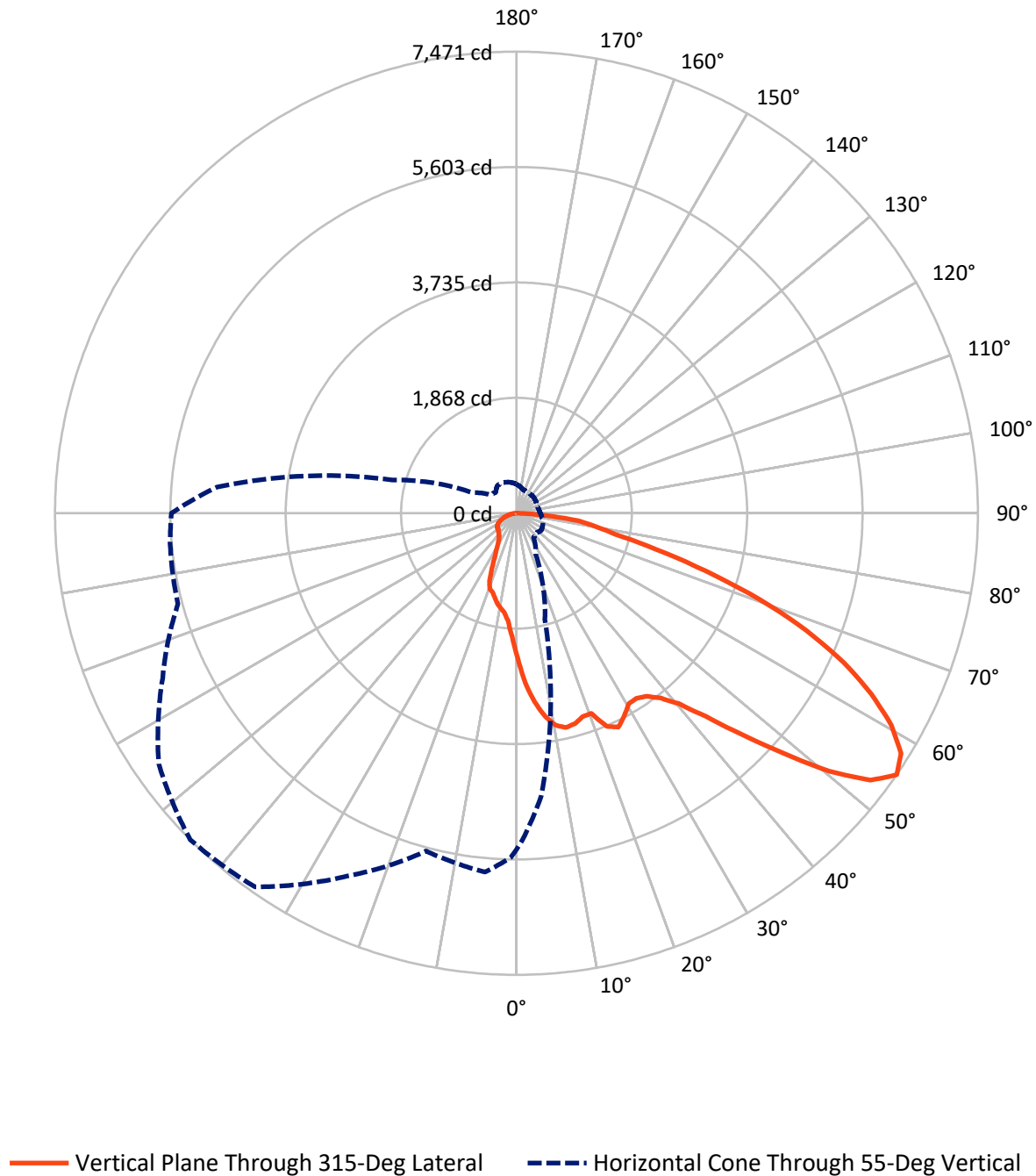
Based on 25 foot mounting height. Maximum calculated value = 4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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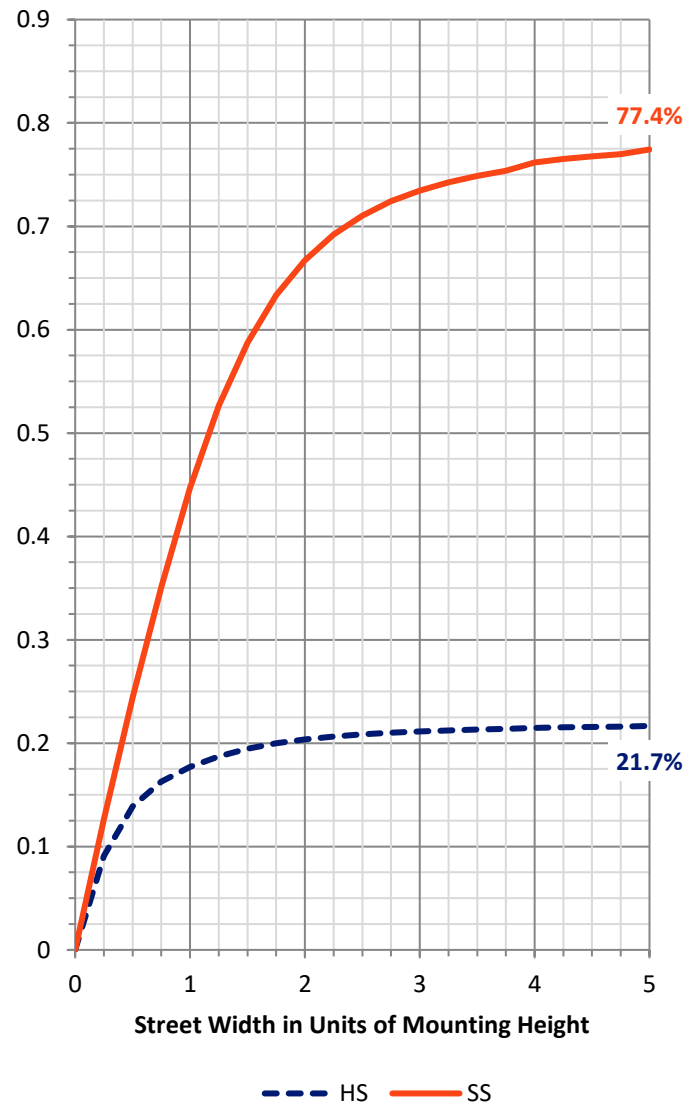
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2045.5	0.0	2045.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7305.5	0.0	7305.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	9351.0	0.0	9351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.9	2.1
10°-20°	527.7	5.6
20°-30°	911.6	9.7
30°-40°	1059.4	11.3
40°-50°	1478.1	15.8
50°-60°	2005.6	21.4
60°-70°	1908.1	20.4
70°-80°	1030.8	11.0
80°-90°	231.0	2.5
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°	9351.0	100.0
0°-180°	9351.0	100.0

Coefficient of Utilization



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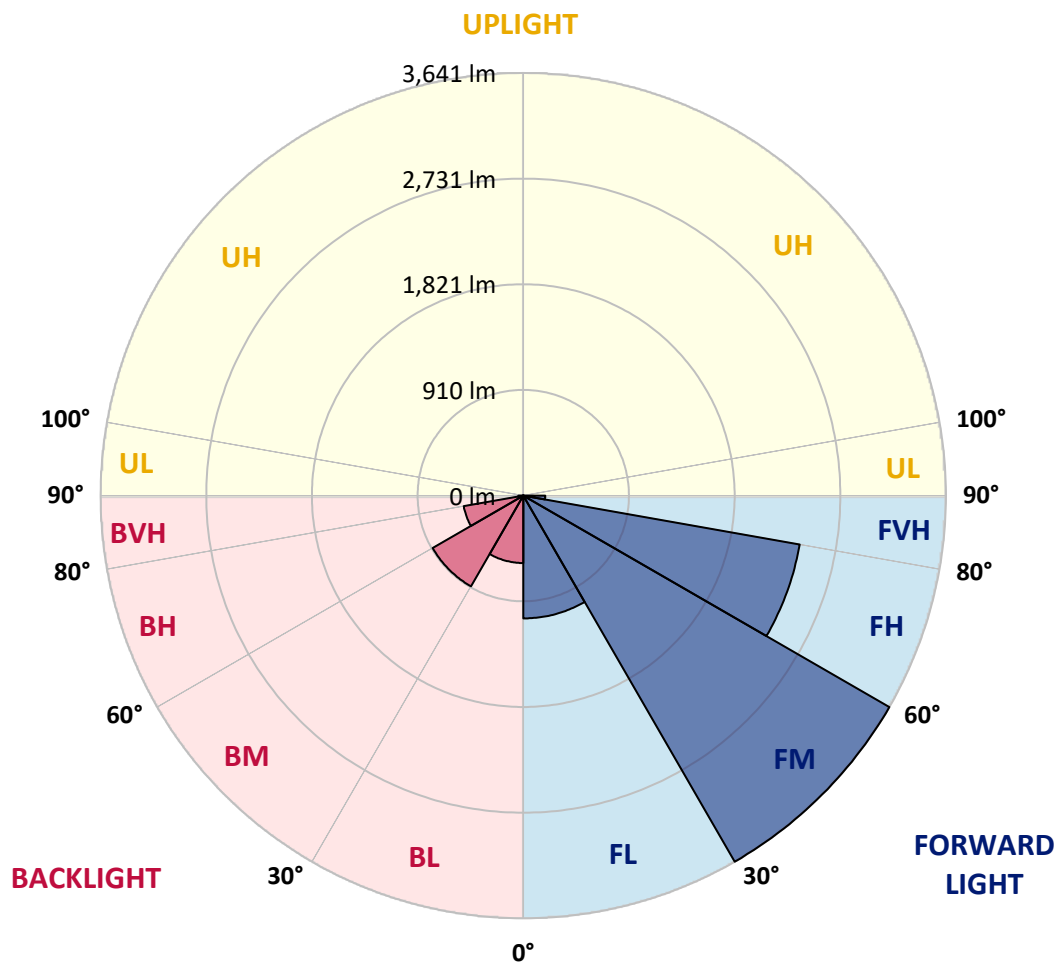
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1057.6	11.3			
FM	(30°-60°)	3641.1	38.9			
FH	(60°-80°)	2418.0	25.9			G2/5000
FVH	(80°-90°)	188.8	2.0			G2/225
BL	(0°-30°)	580.5	6.2	B2/1000		
BM	(30°-60°)	901.9	9.6	B1/1000		
BH	(60°-80°)	520.8	5.6	B2/1000		G2/1000
BVH	(80°-90°)	42.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7
2.5°	2607.1	2597.2	2569.4	2496.6	2423.2	2348.6	2291.2	2219.7	2145.0	2104.9	2053.7
5°	2642.9	2631.7	2566.4	2402.3	2253.6	2097.5	1972.9	1863.7	1819.3	1753.9	1701.4
7.5°	2559.0	2554.0	2455.9	2220.3	2016.7	1812.5	1671.2	1583.6	1504.0	1474.4	1480.6
10°	2482.5	2462.7	2339.9	2032.1	1794.6	1628.6	1527.5	1441.7	1385.6	1370.8	1373.9
12.5°	2418.9	2392.4	2247.4	1905.6	1697.7	1565.1	1436.2	1346.7	1295.5	1309.7	1357.8
15°	2406.0	2370.2	2208.5	1862.5	1644.7	1473.8	1332.5	1229.5	1191.3	1222.1	1299.2
17.5°	2489.9	2444.8	2275.2	1876.6	1594.1	1380.7	1207.3	1089.5	1057.4	1106.7	1207.3
20°	2759.5	2692.8	2483.1	1958.7	1589.2	1334.4	1134.5	1016.1	1029.6	1123.4	1228.3
22.5°	3257.9	3158.0	2847.1	2078.4	1615.1	1322.7	1119.7	1058.0	1132.7	1212.2	1281.3
25°	3356.6	3278.3	2912.4	2105.5	1609.5	1314.6	1161.6	1192.5	1275.8	1315.3	1291.2
27.5°	3412.1	3322.7	2908.1	1971.0	1439.3	1192.5	1110.4	1161.6	1182.6	1144.4	1079.0
30°	3541.7	3448.5	2981.5	1829.8	1185.1	884.7	775.5	754.5	768.7	776.1	752.6
32.5°	3720.0	3628.1	3119.7	1737.2	1024.7	731.7	624.3	594.7	587.9	579.9	570.6
35°	3950.7	3809.4	3255.4	1678.0	958.7	676.8	578.0	555.2	546.0	534.9	525.0
37.5°	4185.1	4037.1	3426.9	1615.7	914.9	638.5	547.2	536.7	520.7	509.0	494.8
40°	4434.4	4268.4	3583.0	1561.4	872.3	613.8	525.0	523.8	502.8	489.2	472.6
42.5°	4650.3	4479.4	3722.5	1528.1	839.6	587.9	511.4	515.1	493.5	473.2	451.6
45°	4821.8	4654.0	3851.4	1528.1	813.1	562.0	509.0	506.5	484.9	459.6	434.9
47.5°	4972.3	4799.0	3977.2	1567.0	796.4	540.4	495.4	499.7	477.5	445.4	421.4
50°	5088.9	4935.9	4146.9	1627.4	779.8	523.1	478.1	501.5	471.3	438.0	410.2
52.5°	5237.6	5100.6	4351.1	1710.1	765.6	504.0	462.7	501.5	470.7	438.6	408.4
55°	5443.6	5299.3	4597.2	1778.6	742.8	486.1	449.1	487.4	468.9	435.5	403.5
57.5°	5588.0	5480.0	4771.2	1824.2	710.1	463.3	436.8	473.8	460.8	423.8	388.7
58°	5594.8	5489.3	4796.5	1834.7	702.0	459.0	433.7	467.6	457.1	418.9	383.7
60°	5517.0	5426.4	4801.4	1819.9	656.4	437.4	417.6	442.3	437.4	389.9	357.2
62.5°	5234.5	5137.6	4602.2	1699.6	595.9	410.9	393.0	408.4	397.3	349.2	318.9
65°	4832.9	4654.6	4192.5	1510.8	552.8	382.5	359.7	360.9	349.2	314.6	288.1
67.5°	4298.0	4098.8	3549.7	1273.3	520.1	351.0	320.2	317.1	302.9	280.7	259.1
70°	3639.8	3503.4	2884.7	1035.8	483.7	316.5	275.8	273.9	265.3	248.6	229.5
72.5°	2950.1	2776.7	2329.5	829.1	439.2	283.2	234.4	238.1	227.0	215.3	198.0
75°	2177.1	2063.6	1800.8	665.0	379.4	246.8	195.6	196.8	191.9	179.5	165.9
77.5°	1433.7	1399.8	1288.1	436.8	291.8	196.2	159.8	161.0	157.3	146.2	132.0
80°	964.9	942.0	872.9	281.3	194.9	141.9	123.4	124.6	124.0	112.3	93.2
82.5°	594.7	584.8	562.6	190.0	135.1	101.8	81.4	85.1	91.9	79.0	63.5
85°	280.7	281.3	339.9	103.6	79.6	65.4	44.4	47.5	47.5	47.5	35.8
87.5°	36.4	38.2	46.9	43.8	29.0	24.7	16.0	13.6	11.7	15.4	11.1
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°	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7
2.5°	2035.8	2023.5	1996.9	1990.8	1987.1	1997.6	1969.8	1977.2	1964.9	1999.4	1993.9
5°	1704.5	1705.8	1727.4	1741.5	1746.5	1741.5	1723.0	1691.0	1666.3	1656.4	1658.9
7.5°	1468.9	1490.5	1527.5	1568.8	1606.4	1617.5	1607.1	1546.0	1479.4	1437.4	1423.8
10°	1390.5	1419.5	1462.1	1494.8	1528.1	1554.6	1560.2	1512.7	1433.7	1334.4	1295.5
12.5°	1394.8	1434.3	1475.0	1485.5	1482.4	1492.9	1488.0	1480.0	1428.2	1301.7	1236.9
15°	1354.1	1401.0	1429.4	1423.8	1414.0	1404.7	1391.8	1371.4	1352.9	1264.1	1192.5
17.5°	1260.4	1308.5	1331.9	1333.8	1333.8	1331.3	1299.8	1292.4	1290.0	1246.8	1203.0
20°	1277.6	1304.2	1293.7	1276.4	1281.3	1298.0	1279.5	1275.8	1290.0	1309.1	1301.1
22.5°	1287.5	1278.2	1199.3	1122.8	1105.5	1157.3	1167.8	1209.1	1266.5	1335.6	1380.7
25°	1226.4	1151.8	1010.5	924.1	875.4	923.5	986.4	1062.9	1148.7	1237.5	1290.0
27.5°	1025.3	968.6	867.4	789.6	747.1	754.5	808.2	877.9	957.4	1017.3	1055.5
30°	772.4	747.1	694.6	668.1	642.2	636.0	658.9	685.4	720.6	728.0	737.8
32.5°	568.8	565.1	568.2	559.5	554.6	554.0	547.2	553.4	557.1	561.4	552.8
35°	514.5	509.6	500.9	498.5	495.4	496.6	493.5	490.4	492.9	496.6	499.1
37.5°	486.7	479.3	467.0	462.7	462.7	464.5	459.6	458.4	462.7	474.4	480.6
40°	465.2	456.5	442.3	436.8	440.5	445.4	438.6	436.2	446.6	459.0	468.9
42.5°	444.8	438.0	424.4	418.3	421.4	430.6	420.7	418.9	432.5	446.0	457.7
45°	427.5	420.7	408.4	405.3	406.5	415.2	408.4	408.4	421.4	436.2	446.6
47.5°	413.9	405.3	397.3	394.8	396.1	401.0	399.8	399.8	412.1	427.5	438.0
50°	400.4	393.0	382.5	383.7	386.8	393.6	393.0	394.8	407.2	426.3	437.4
52.5°	394.2	383.1	371.4	372.6	381.9	389.9	387.4	389.3	403.5	439.2	455.3
55°	387.4	372.6	359.0	360.9	371.4	383.1	380.0	382.5	399.1	447.9	470.1
57.5°	374.5	357.2	342.4	343.6	359.0	371.4	366.4	369.5	389.3	438.6	462.1
58°	368.9	354.1	339.9	340.5	355.3	368.9	363.4	365.8	386.2	436.2	458.4
60°	345.5	336.8	324.5	325.1	339.3	351.0	347.9	350.4	370.1	418.3	434.9
62.5°	313.4	308.5	305.4	305.4	314.0	325.1	328.2	331.3	349.2	378.2	393.0
65°	278.8	278.8	279.5	279.5	285.0	299.2	301.1	309.1	325.7	339.9	351.0
67.5°	255.4	254.2	255.4	252.3	254.8	263.4	272.7	280.1	297.4	307.2	310.9
70°	225.2	224.6	225.2	220.9	223.9	231.3	237.5	249.8	267.7	275.1	277.0
72.5°	195.6	195.6	196.8	193.7	193.7	201.7	206.0	219.6	236.3	240.6	241.2
75°	164.7	166.6	166.6	162.2	163.5	168.4	174.0	185.1	200.5	203.6	203.6
77.5°	130.8	137.6	137.6	133.3	135.1	135.7	143.1	148.7	160.4	161.6	156.7
80°	95.0	101.8	107.3	103.6	106.7	103.0	107.3	111.0	122.8	117.2	109.2
82.5°	67.9	72.8	77.1	77.7	74.6	67.9	73.4	74.0	79.6	72.2	67.9
85°	37.6	42.0	47.5	45.0	40.1	35.8	37.6	38.9	38.2	36.4	33.9
87.5°	9.9	10.5	11.7	8.6	8.0	6.8	9.3	9.3	10.5	11.1	10.5
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°	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7
2.5°	1998.2	2025.3	2083.9	2128.3	2182.6	2248.6	2326.4	2404.7	2489.2	2515.8	2552.8
5°	1653.3	1721.2	1749.6	1830.4	1910.6	2030.9	2159.2	2307.9	2470.7	2549.1	2624.3
7.5°	1412.7	1449.1	1478.7	1538.0	1634.2	1780.4	1941.4	2127.1	2357.8	2472.0	2582.4
10°	1283.2	1286.9	1323.3	1396.7	1480.6	1609.5	1761.9	1969.8	2227.1	2365.9	2495.4
12.5°	1197.4	1181.4	1220.9	1297.4	1392.4	1511.4	1651.5	1849.5	2132.7	2275.2	2431.9
15°	1122.2	1096.9	1126.5	1204.8	1298.6	1438.6	1589.2	1798.9	2095.7	2261.6	2435.6
17.5°	1124.0	1054.3	1064.8	1130.8	1224.0	1366.5	1549.1	1797.1	2151.8	2343.0	2549.1
20°	1262.8	1151.2	1103.7	1116.0	1206.1	1361.5	1567.6	1883.4	2336.2	2615.1	2835.3
22.5°	1399.2	1331.9	1255.4	1230.1	1279.5	1442.3	1685.4	2087.6	2737.2	3157.4	3555.3
25°	1351.7	1409.0	1389.9	1354.1	1365.2	1500.3	1765.6	2255.4	3048.8	3522.0	3895.8
27.5°	1081.4	1185.7	1206.7	1206.1	1210.4	1321.4	1587.9	2142.5	3087.6	3591.7	3948.9
30°	760.0	769.3	780.4	802.0	821.7	921.1	1242.5	1881.0	3070.4	3623.1	3980.9
32.5°	548.4	560.8	576.2	605.8	652.7	779.2	1087.0	1797.7	3161.7	3753.3	4074.7
35°	501.5	515.7	530.5	564.5	608.9	726.1	1025.3	1763.1	3311.6	3964.3	4243.1
37.5°	486.7	502.8	515.7	540.4	576.2	687.9	969.2	1739.7	3465.2	4187.6	4468.9
40°	476.3	494.8	505.3	525.0	549.7	652.7	919.2	1721.2	3613.9	4391.8	4650.3
42.5°	467.0	486.1	499.7	513.9	534.2	621.2	874.8	1702.7	3742.8	4589.8	4831.0
45°	455.9	480.0	497.2	508.3	526.2	594.7	840.9	1687.9	3889.6	4765.7	5013.6
47.5°	446.6	473.2	494.8	507.7	514.5	576.2	813.7	1708.2	4066.1	4949.5	5183.3
50°	447.3	472.6	499.7	520.1	502.2	560.8	797.1	1789.0	4295.6	5167.9	5317.2
52.5°	467.0	497.8	519.4	524.4	484.9	542.3	788.4	1930.3	4567.0	5361.0	5452.3
55°	489.2	521.3	544.7	541.6	475.6	518.8	786.6	2080.8	4864.4	5586.1	5628.1
57.5°	481.2	528.1	563.9	547.8	476.3	496.0	778.5	2202.4	5113.0	5754.6	5802.1
58°	478.7	525.6	566.3	546.6	474.4	489.2	776.7	2212.9	5147.5	5766.3	5826.7
60°	454.7	504.0	564.5	537.3	463.9	470.7	756.3	2246.8	5138.3	5705.8	5841.5
62.5°	410.9	451.6	521.9	492.3	431.8	446.0	710.7	2204.8	4887.8	5414.6	5625.0
65°	361.5	391.7	438.6	433.1	386.2	420.7	648.4	2038.9	4386.2	4942.1	5163.6
67.5°	324.5	349.2	378.8	370.8	347.3	386.8	581.1	1758.2	3823.6	4374.5	4653.4
70°	286.9	306.0	320.8	315.2	307.8	353.5	521.3	1426.9	3284.4	3835.3	4105.6
72.5°	248.6	266.5	278.8	270.8	266.5	318.3	472.6	1107.4	2594.1	3164.1	3511.5
75°	207.9	225.8	234.4	225.2	222.7	280.7	400.4	827.3	1946.4	2439.3	2739.1
77.5°	161.0	180.1	191.2	188.2	189.4	230.7	323.3	566.3	1391.8	1662.6	1978.4
80°	112.9	133.9	141.3	138.2	146.8	175.8	228.3	359.7	959.9	1079.0	1301.7
82.5°	69.7	89.5	90.7	93.8	99.9	130.2	172.1	219.0	602.7	623.1	784.7
85°	35.2	42.6	45.7	50.6	56.1	79.6	98.1	135.7	388.0	293.7	438.6
87.5°	11.7	12.3	14.8	18.5	22.8	32.7	42.0	55.5	96.2	53.1	135.7
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: P452235

CATALOG NUMBER: GALN-SA3A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7
2.5°	2627.4	2679.9	2718.1	2753.3	2719.4	2716.3	2683.0	2629.3	2607.1	2607.1
5°	2782.3	2905.0	3004.4	3067.9	3040.8	2975.4	2867.4	2729.8	2655.8	2642.9
7.5°	2824.8	3067.3	3251.7	3317.1	3271.5	3127.1	2920.5	2688.5	2582.4	2559.0
10°	2798.9	3114.2	3385.0	3488.6	3425.1	3206.7	2924.8	2640.4	2509.6	2482.5
12.5°	2771.8	3120.3	3409.7	3559.6	3518.3	3270.9	2956.2	2608.9	2457.8	2418.9
15°	2791.5	3122.8	3379.4	3534.3	3560.8	3348.0	3008.1	2631.7	2447.3	2406.0
17.5°	2916.1	3169.7	3336.3	3461.5	3554.7	3452.9	3155.5	2740.9	2541.1	2489.9
20°	3176.5	3282.0	3360.9	3457.8	3607.7	3666.9	3457.2	3040.8	2804.5	2759.5
22.5°	3930.4	3911.2	3749.6	3747.7	3964.9	4202.4	4188.2	3650.3	3294.9	3257.9
25°	4212.9	4124.1	3890.3	3833.5	3929.1	4295.6	4242.5	3774.9	3446.7	3356.6
27.5°	4102.5	3882.2	3728.6	3715.7	3684.2	4030.3	4158.0	3825.5	3499.7	3412.1
30°	4095.7	3771.8	3552.2	3578.1	3608.3	3939.0	4204.9	3984.0	3635.5	3541.7
32.5°	4112.3	3787.2	3565.1	3570.1	3660.1	3952.6	4256.7	4156.8	3813.8	3720.0
35°	4179.6	3874.8	3647.8	3636.1	3776.7	4041.4	4344.9	4428.2	4057.4	3950.7
37.5°	4288.2	4049.4	3798.9	3795.9	4000.1	4201.8	4454.7	4702.1	4299.9	4185.1
40°	4447.9	4253.6	4067.9	4051.3	4303.6	4462.7	4597.2	4993.9	4581.8	4434.4
42.5°	4641.0	4498.5	4422.6	4488.7	4731.1	4755.8	4819.3	5263.5	4821.8	4650.3
45°	4819.9	4813.2	4918.6	5093.8	5235.1	5087.1	5051.3	5444.3	5008.1	4821.8
47.5°	5032.8	5216.6	5534.9	5791.6	5939.6	5472.6	5249.3	5562.1	5143.8	4972.3
50°	5248.7	5699.7	6208.0	6565.8	6597.3	5891.5	5385.6	5673.1	5267.2	5088.9
52.5°	5475.7	6085.2	6762.0	7177.8	7116.7	6256.1	5517.7	5748.4	5394.3	5237.6
55°	5673.1	6321.5	7071.7	7470.8	7381.4	6478.2	5660.2	5829.8	5575.7	5443.6
57.5°	5783.6	6341.2	6994.6	7343.1	7246.3	6435.0	5725.6	5890.3	5691.6	5588.0
58°	5799.6	6314.7	6926.1	7269.1	7170.4	6398.6	5724.9	5887.8	5699.0	5594.8
60°	5785.4	6142.6	6671.3	6976.7	6873.0	6170.4	5701.5	5841.5	5605.3	5517.0
62.5°	5654.0	5844.0	6231.4	6453.5	6423.9	5813.8	5605.3	5667.0	5319.6	5234.5
65°	5481.3	5436.9	5668.2	5825.5	5847.7	5546.7	5509.6	5289.4	4953.2	4832.9
67.5°	5271.5	4975.4	4974.8	5064.2	5101.3	5135.8	5310.4	4879.2	4425.1	4298.0
70°	4915.6	4264.1	4067.9	4173.4	4142.6	4434.4	4954.4	4303.0	3788.5	3639.8
72.5°	4262.9	3383.8	3069.8	3205.5	3127.7	3477.5	4335.0	3541.1	3132.7	2950.1
75°	3455.3	2531.2	2207.3	2331.9	2283.8	2637.9	3607.1	2571.9	2246.8	2177.1
77.5°	2683.0	1834.1	1645.9	1628.6	1664.4	1963.0	2645.9	1736.6	1481.2	1433.7
80°	1723.7	1312.8	1323.9	1301.7	1320.2	1237.5	1606.4	1108.0	1003.1	964.9
82.5°	1134.5	914.9	1090.7	1006.8	956.2	832.2	1053.7	725.5	615.7	594.7
85°	773.0	673.7	613.2	468.9	552.1	641.0	790.3	390.5	309.7	280.7
87.5°	349.2	234.4	172.1	106.1	167.8	193.7	383.7	45.7	35.2	36.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)