

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: P451771

Luminaire Tested: **GALN-SA2C-830-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451771
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-SA2C-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 9684 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108
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



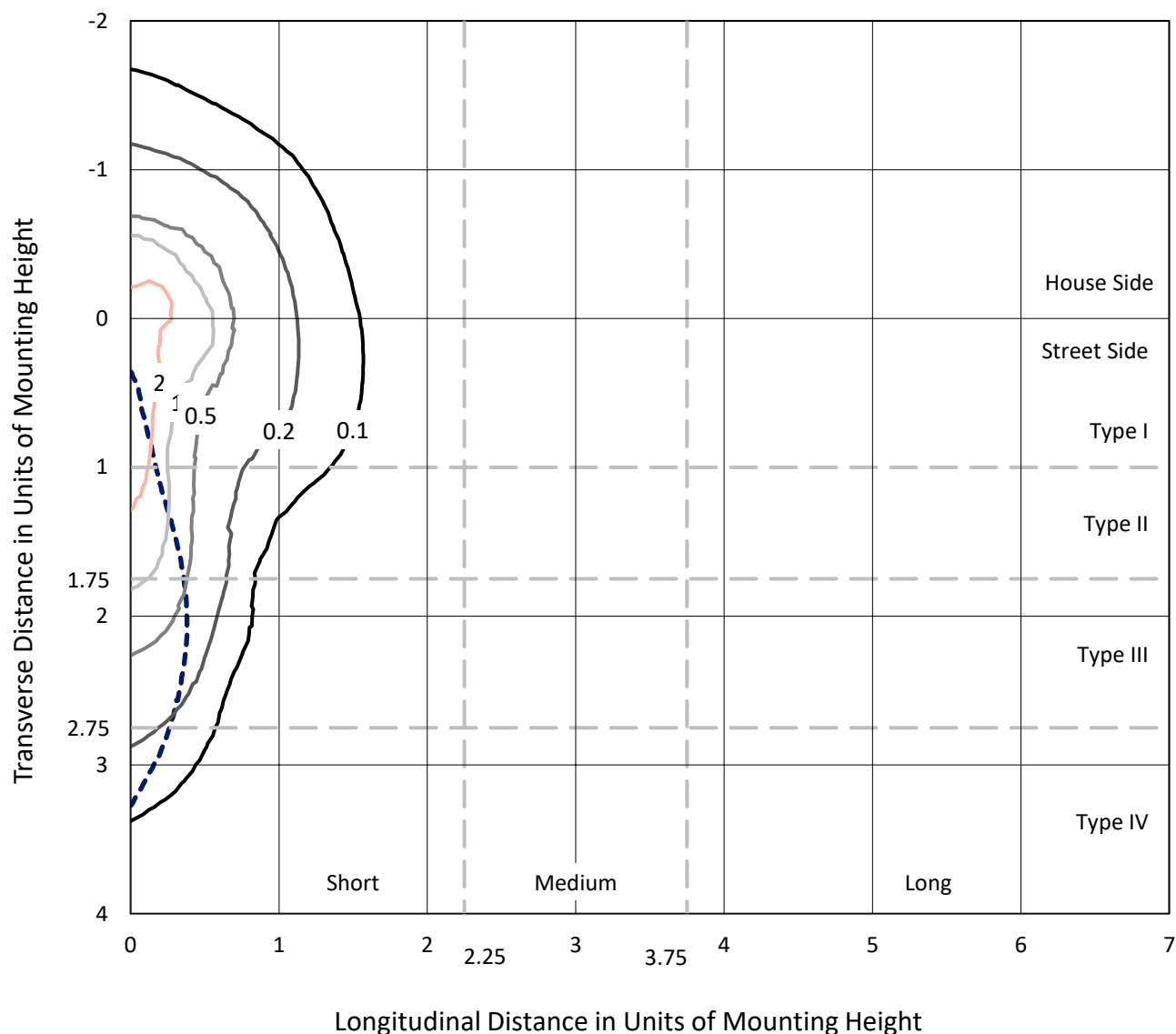
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

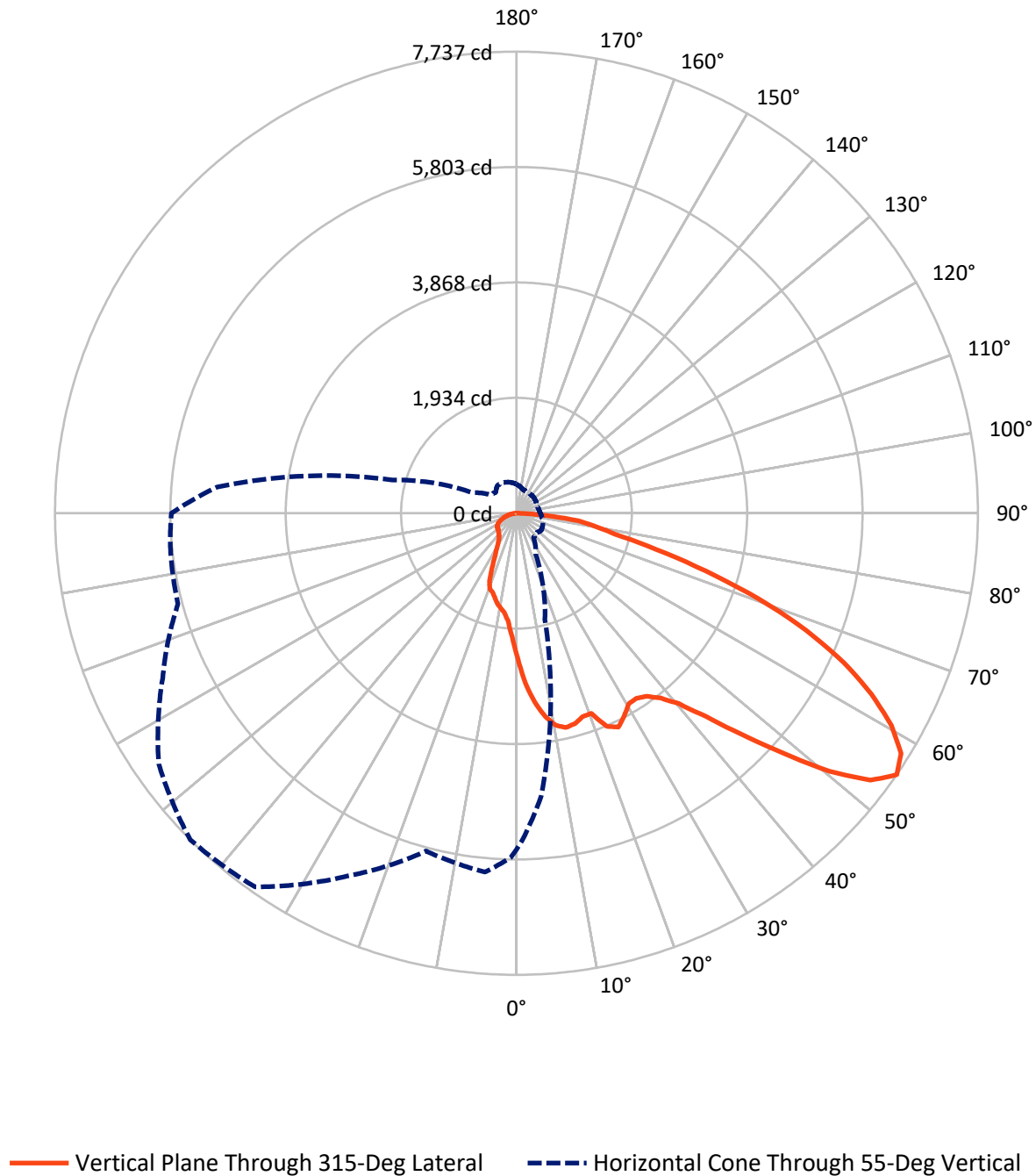


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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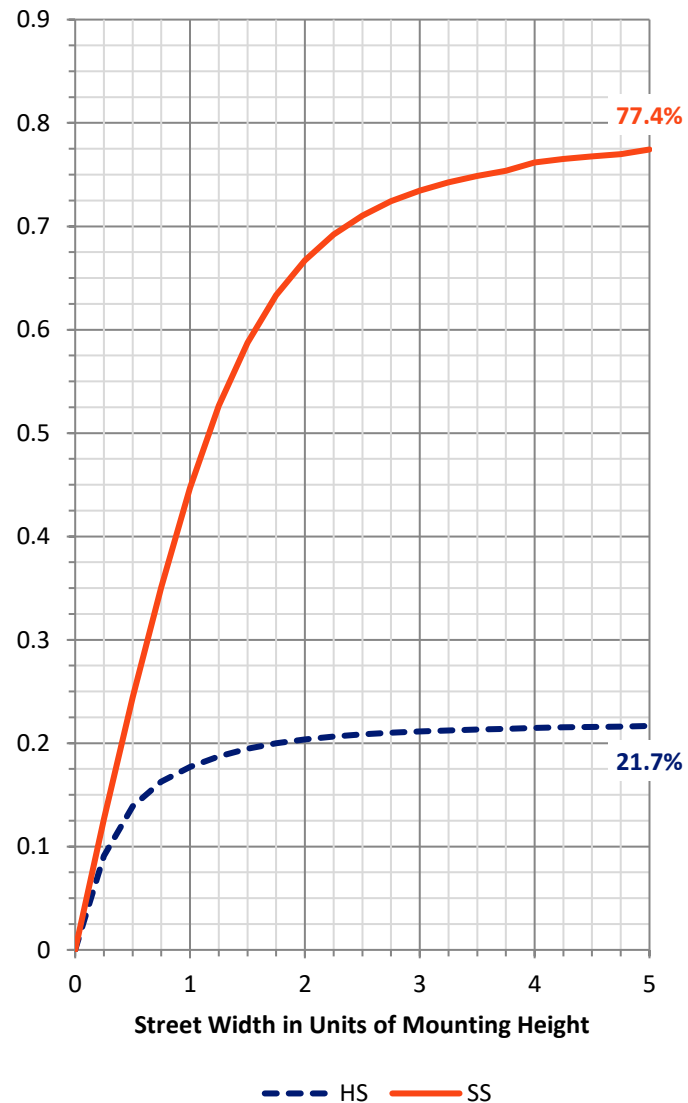
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2118.3	0.0	2118.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7565.7	0.0	7565.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	9684.0	0.0	9684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	2.1
10°-20°	546.5	5.6
20°-30°	944.0	9.7
30°-40°	1097.1	11.3
40°-50°	1530.7	15.8
50°-60°	2077.0	21.4
60°-70°	1976.0	20.4
70°-80°	1067.5	11.0
80°-90°	239.2	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°	9684.0	100.0
0°-180°	9684.0	100.0

Coefficient of Utilization



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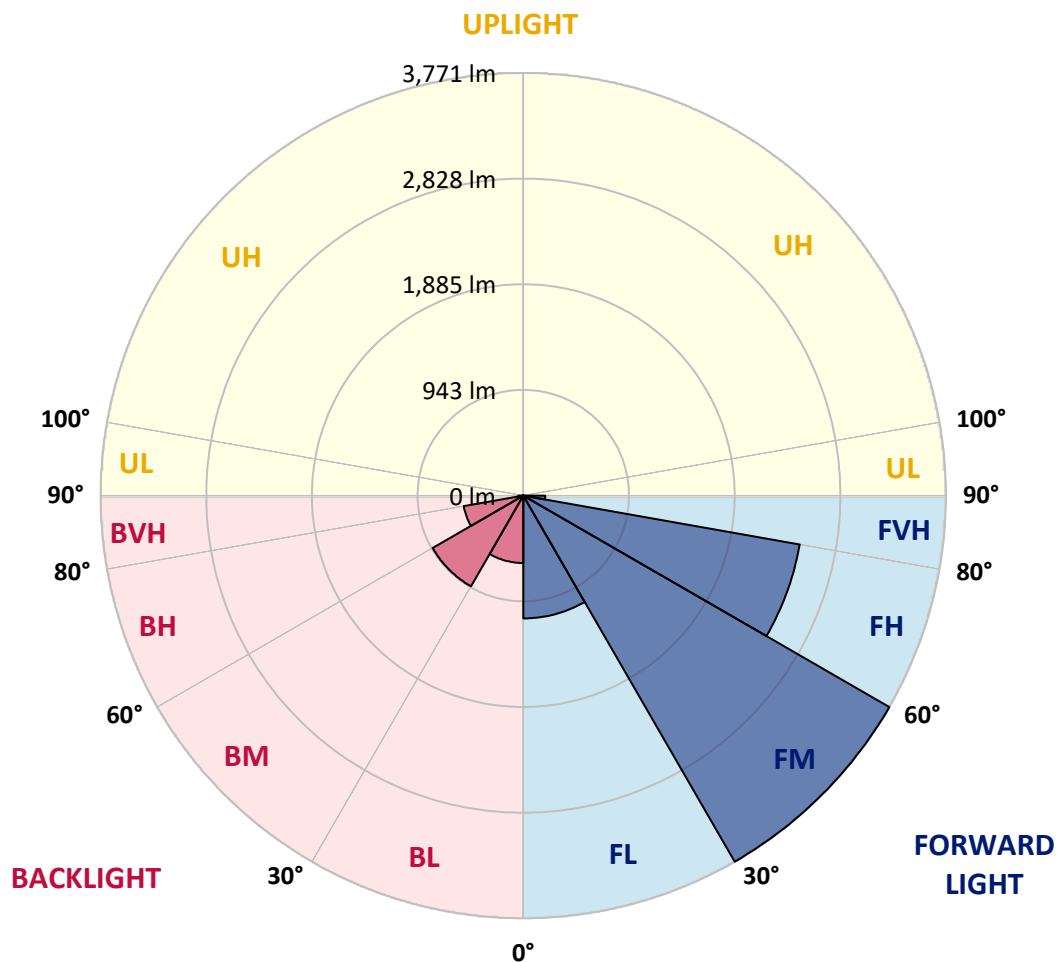
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1095.3	11.3			
FM	(30°-60°)	3770.7	38.9			
FH	(60°-80°)	2504.1	25.9			G2/5000
FVH	(80°-90°)	195.5	2.0			G2/225
BL	(0°-30°)	601.2	6.2	B2/1000		
BM	(30°-60°)	934.0	9.6	B1/1000		
BH	(60°-80°)	539.4	5.6	B2/1000		G2/1000
BVH	(80°-90°)	43.7	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°	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3
2.5°	2699.9	2689.7	2660.9	2585.6	2509.5	2432.2	2372.8	2298.7	2221.4	2179.9	2126.8
5°	2737.0	2725.5	2657.7	2487.8	2333.8	2172.2	2043.1	1930.1	1884.1	1816.3	1762.0
7.5°	2650.1	2645.0	2543.4	2299.3	2088.5	1877.0	1730.7	1640.0	1557.6	1526.9	1533.3
10°	2570.9	2550.4	2423.3	2104.5	1858.5	1686.6	1581.9	1493.1	1434.9	1419.6	1422.8
12.5°	2505.1	2477.6	2327.4	1973.5	1758.2	1620.8	1487.3	1394.7	1341.7	1356.3	1406.2
15°	2491.6	2454.6	2287.2	1928.8	1703.3	1526.3	1380.0	1273.3	1233.7	1265.6	1345.5
17.5°	2578.5	2531.9	2356.2	1943.5	1650.9	1429.8	1250.3	1128.3	1095.0	1146.2	1250.3
20°	2857.7	2788.7	2571.5	2028.4	1645.8	1381.9	1174.9	1052.2	1066.3	1163.4	1272.0
22.5°	3373.9	3270.4	2948.4	2152.4	1672.6	1369.8	1159.6	1095.7	1173.0	1255.4	1327.0
25°	3476.2	3395.0	3016.2	2180.5	1666.8	1361.5	1203.0	1235.0	1321.2	1362.1	1337.2
27.5°	3533.7	3441.0	3011.7	2041.2	1490.5	1235.0	1150.0	1203.0	1224.7	1185.1	1117.4
30°	3667.8	3571.3	3087.7	1894.9	1227.3	916.2	803.1	781.4	796.0	803.7	779.4
32.5°	3852.5	3757.3	3230.8	1799.1	1061.2	757.7	646.5	615.9	608.9	600.5	591.0
35°	4091.4	3945.1	3371.4	1737.8	992.8	700.9	598.6	575.0	565.4	553.9	543.7
37.5°	4334.2	4180.8	3549.0	1673.2	947.5	661.2	566.7	555.8	539.2	527.1	512.4
40°	4592.3	4420.4	3710.6	1617.0	903.4	635.7	543.7	542.4	520.7	506.6	489.4
42.5°	4815.9	4638.9	3855.0	1582.5	869.5	608.9	529.6	533.5	511.1	490.0	467.7
45°	4993.5	4819.7	3988.5	1582.5	842.0	582.0	527.1	524.5	502.2	476.0	450.4
47.5°	5149.4	4969.9	4118.9	1622.8	824.8	559.7	513.0	517.5	494.5	461.3	436.4
50°	5270.1	5111.7	4294.6	1685.4	807.5	541.8	495.1	519.4	488.1	453.6	424.9
52.5°	5424.1	5282.3	4506.0	1771.0	792.9	522.0	479.2	519.4	487.5	454.2	422.9
55°	5637.5	5488.0	4760.9	1841.9	769.2	503.4	465.1	504.7	485.6	451.1	417.8
57.5°	5787.0	5675.2	4941.1	1889.2	735.4	479.8	452.3	490.7	477.2	438.9	402.5
58°	5794.0	5684.8	4967.3	1900.0	727.0	475.3	449.1	484.3	473.4	433.8	397.4
60°	5713.5	5619.6	4972.4	1884.7	679.8	453.0	432.5	458.1	453.0	403.8	369.9
62.5°	5420.9	5320.6	4766.1	1760.1	617.2	425.5	407.0	422.9	411.4	361.6	330.3
65°	5005.0	4820.4	4341.8	1564.6	572.4	396.1	372.5	373.7	361.6	325.8	298.4
67.5°	4451.1	4244.7	3676.1	1318.7	538.6	363.5	331.6	328.4	313.7	290.7	268.3
70°	3769.4	3628.2	2987.4	1072.7	500.9	327.7	285.6	283.7	274.7	257.5	237.7
72.5°	3055.1	2875.6	2412.4	858.7	454.9	293.2	242.8	246.6	235.1	223.0	205.1
75°	2254.6	2137.1	1864.9	688.7	392.9	255.6	202.5	203.8	198.7	185.9	171.9
77.5°	1484.8	1449.6	1334.0	452.3	302.2	203.2	165.5	166.7	162.9	151.4	136.7
80°	999.2	975.6	904.0	291.3	201.9	146.9	127.8	129.1	128.4	116.3	96.5
82.5°	615.9	605.7	582.7	196.8	139.9	105.4	84.3	88.2	95.2	81.8	65.8
85°	290.7	291.3	352.0	107.3	82.4	67.7	46.0	49.2	49.2	49.2	37.1
87.5°	37.7	39.6	48.6	45.4	30.0	25.6	16.6	14.1	12.1	16.0	11.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3
2.5°	2108.3	2095.5	2068.1	2061.7	2057.8	2068.7	2039.9	2047.6	2034.8	2070.6	2064.9
5°	1765.2	1766.5	1788.9	1803.6	1808.7	1803.6	1784.4	1751.2	1725.6	1715.4	1718.0
7.5°	1521.2	1543.5	1581.9	1624.7	1663.6	1675.1	1664.3	1601.0	1532.0	1488.6	1474.5
10°	1440.0	1470.1	1514.1	1548.0	1582.5	1610.0	1615.7	1566.5	1484.8	1381.9	1341.7
12.5°	1444.5	1485.4	1527.6	1538.4	1535.2	1546.1	1541.0	1532.7	1479.0	1348.0	1281.0
15°	1402.3	1450.9	1480.3	1474.5	1464.3	1454.7	1441.3	1420.2	1401.1	1309.1	1235.0
17.5°	1305.2	1355.1	1379.3	1381.3	1381.3	1378.7	1346.1	1338.5	1335.9	1291.2	1245.8
20°	1323.1	1350.6	1339.7	1321.8	1327.0	1344.2	1325.0	1321.2	1335.9	1355.7	1347.4
22.5°	1333.3	1323.8	1242.0	1162.8	1144.9	1198.5	1209.4	1252.2	1311.6	1383.2	1429.8
25°	1270.1	1192.8	1046.5	957.0	906.6	956.4	1021.6	1100.8	1189.6	1281.6	1335.9
27.5°	1061.8	1003.0	898.3	817.8	773.7	781.4	836.9	909.1	991.5	1053.5	1093.1
30°	799.9	773.7	719.4	691.9	665.1	658.7	682.3	709.8	746.2	753.9	764.1
32.5°	589.0	585.2	588.4	579.5	574.4	573.7	566.7	573.1	576.9	581.4	572.4
35°	532.8	527.7	518.8	516.2	513.0	514.3	511.1	507.9	510.5	514.3	516.9
37.5°	504.1	496.4	483.6	479.2	479.2	481.1	476.0	474.7	479.2	491.3	497.7
40°	481.7	472.8	458.1	452.3	456.2	461.3	454.2	451.7	462.6	475.3	485.6
42.5°	460.6	453.6	439.6	433.2	436.4	445.9	435.7	433.8	447.9	461.9	474.1
45°	442.7	435.7	422.9	419.7	421.0	430.0	422.9	422.9	436.4	451.7	462.6
47.5°	428.7	419.7	411.4	408.9	410.2	415.3	414.0	414.0	426.8	442.7	453.6
50°	414.6	407.0	396.1	397.4	400.6	407.6	407.0	408.9	421.7	441.5	453.0
52.5°	408.2	396.7	384.6	385.9	395.5	403.8	401.2	403.1	417.8	454.9	471.5
55°	401.2	385.9	371.8	373.7	384.6	396.7	393.6	396.1	413.4	463.8	486.8
57.5°	387.8	369.9	354.6	355.9	371.8	384.6	379.5	382.7	403.1	454.2	478.5
58°	382.1	366.7	352.0	352.7	368.0	382.1	376.3	378.9	399.9	451.7	474.7
60°	357.8	348.8	336.1	336.7	351.4	363.5	360.3	362.9	383.3	433.2	450.4
62.5°	324.6	319.4	316.2	316.2	325.2	336.7	339.9	343.1	361.6	391.6	407.0
65°	288.8	288.8	289.4	289.4	295.2	309.9	311.8	320.1	337.3	352.0	363.5
67.5°	264.5	263.2	264.5	261.3	263.9	272.8	282.4	290.1	307.9	318.2	322.0
70°	233.2	232.6	233.2	228.7	231.9	239.6	246.0	258.7	277.3	284.9	286.9
72.5°	202.5	202.5	203.8	200.6	200.6	208.9	213.4	227.4	244.7	249.2	249.8
75°	170.6	172.5	172.5	168.0	169.3	174.4	180.2	191.7	207.6	210.8	210.8
77.5°	135.4	142.5	142.5	138.0	139.9	140.6	148.2	154.0	166.1	167.4	162.3
80°	98.4	105.4	111.2	107.3	110.5	106.7	111.2	115.0	127.1	121.4	113.1
82.5°	70.3	75.4	79.9	80.5	77.3	70.3	76.0	76.7	82.4	74.7	70.3
85°	39.0	43.4	49.2	46.6	41.5	37.1	39.0	40.2	39.6	37.7	35.1
87.5°	10.2	10.9	12.1	8.9	8.3	7.0	9.6	9.6	10.9	11.5	10.9
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°	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3
2.5°	2069.3	2097.4	2158.1	2204.1	2260.4	2328.7	2409.2	2490.4	2577.9	2605.4	2643.7
5°	1712.2	1782.5	1811.9	1895.6	1978.6	2103.2	2236.1	2390.1	2558.7	2639.9	2717.8
7.5°	1463.0	1500.7	1531.4	1592.7	1692.4	1843.8	2010.6	2202.9	2441.8	2560.0	2674.4
10°	1328.9	1332.7	1370.4	1446.4	1533.3	1666.8	1824.6	2039.9	2306.4	2450.1	2584.3
12.5°	1240.1	1223.5	1264.3	1343.6	1442.0	1565.3	1710.3	1915.4	2208.6	2356.2	2518.5
15°	1162.1	1135.9	1166.6	1247.7	1344.8	1489.9	1645.8	1863.0	2170.3	2342.1	2522.3
17.5°	1164.0	1091.8	1102.7	1171.1	1267.5	1415.1	1604.2	1861.1	2228.4	2426.5	2639.9
20°	1307.8	1192.2	1143.0	1155.7	1249.0	1410.0	1623.4	1950.5	2419.4	2708.2	2936.3
22.5°	1449.0	1379.3	1300.1	1273.9	1325.0	1493.7	1745.4	2162.0	2834.7	3269.8	3681.9
25°	1399.8	1459.2	1439.4	1402.3	1413.8	1553.8	1828.5	2335.8	3157.4	3647.4	4034.5
27.5°	1120.0	1227.9	1249.7	1249.0	1253.5	1368.5	1644.5	2218.8	3197.6	3719.6	4089.5
30°	787.1	796.7	808.2	830.5	851.0	953.9	1286.7	1948.0	3179.7	3752.2	4122.7
32.5°	568.0	580.7	596.7	627.4	675.9	806.9	1125.7	1861.7	3274.3	3887.0	4219.8
35°	519.4	534.1	549.4	584.6	630.6	752.0	1061.8	1825.9	3429.5	4105.5	4394.2
37.5°	504.1	520.7	534.1	559.7	596.7	712.4	1003.7	1801.6	3588.6	4336.7	4628.1
40°	493.2	512.4	523.2	543.7	569.2	675.9	951.9	1782.5	3742.6	4548.2	4815.9
42.5°	483.6	503.4	517.5	532.2	553.3	643.4	905.9	1763.3	3876.1	4753.3	5003.1
45°	472.1	497.0	514.9	526.4	545.0	615.9	870.8	1748.0	4028.1	4935.4	5192.2
47.5°	462.6	490.0	512.4	525.8	532.8	596.7	842.7	1769.1	4210.9	5125.7	5367.9
50°	463.2	489.4	517.5	538.6	520.0	580.7	825.4	1852.8	4448.5	5351.9	5506.5
52.5°	483.6	515.6	537.9	543.0	502.2	561.6	816.5	1999.1	4729.6	5551.9	5646.4
55°	506.6	539.9	564.1	560.9	492.6	537.3	814.6	2154.9	5037.6	5785.1	5828.5
57.5°	498.3	546.9	583.9	567.3	493.2	513.7	806.3	2280.8	5295.1	5959.5	6008.7
58°	495.8	544.3	586.5	566.0	491.3	506.6	804.4	2291.7	5330.8	5971.6	6034.2
60°	470.9	522.0	584.6	556.5	480.4	487.5	783.3	2326.8	5321.2	5909.0	6049.6
62.5°	425.5	467.7	540.5	509.8	447.2	461.9	736.0	2283.4	5061.9	5607.5	5825.3
65°	374.4	405.7	454.2	448.5	399.9	435.7	671.5	2111.5	4542.4	5118.1	5347.4
67.5°	336.1	361.6	392.3	384.0	359.7	400.6	601.8	1820.8	3959.8	4530.3	4819.1
70°	297.1	316.9	332.2	326.5	318.8	366.1	539.9	1477.7	3401.4	3971.9	4251.8
72.5°	257.5	276.0	288.8	280.5	276.0	329.7	489.4	1146.8	2686.5	3276.8	3636.5
75°	215.3	233.8	242.8	233.2	230.6	290.7	414.6	856.7	2015.7	2526.1	2836.6
77.5°	166.7	186.6	198.1	194.9	196.1	238.9	334.8	586.5	1441.3	1721.8	2048.9
80°	116.9	138.6	146.3	143.1	152.1	182.1	236.4	372.5	994.1	1117.4	1348.0
82.5°	72.2	92.6	93.9	97.1	103.5	134.8	178.2	226.8	624.2	645.3	812.7
85°	36.4	44.1	47.3	52.4	58.1	82.4	101.6	140.6	401.9	304.1	454.2
87.5°	12.1	12.8	15.3	19.2	23.6	33.9	43.4	57.5	99.7	54.9	140.6
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: P451771

CATALOG NUMBER: GALN-SA2C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3	2430.3
2.5°	2721.0	2775.3	2814.9	2851.3	2816.2	2813.0	2778.5	2722.9	2699.9	2699.9
5°	2881.4	3008.5	3111.4	3177.2	3149.0	3081.3	2969.5	2827.1	2750.4	2737.0
7.5°	2925.4	3176.5	3367.5	3435.3	3388.0	3238.5	3024.5	2784.2	2674.4	2650.1
10°	2898.6	3225.1	3505.5	3612.9	3547.1	3320.9	3028.9	2734.4	2599.0	2570.9
12.5°	2870.5	3231.5	3531.1	3686.3	3643.5	3387.4	3061.5	2701.8	2545.3	2505.1
15°	2890.9	3234.0	3499.8	3660.2	3687.6	3467.2	3115.2	2725.5	2534.4	2491.6
17.5°	3020.0	3282.6	3455.1	3584.8	3681.2	3575.8	3267.9	2838.6	2631.6	2578.5
20°	3289.6	3398.9	3480.6	3580.9	3736.2	3797.5	3580.3	3149.0	2904.4	2857.7
22.5°	4070.3	4050.5	3883.1	3881.2	4106.1	4352.1	4337.4	3780.3	3412.3	3373.9
25°	4362.9	4270.9	4028.8	3970.0	4069.0	4448.5	4393.6	3909.3	3569.4	3476.2
27.5°	4248.6	4020.5	3861.4	3848.0	3815.4	4173.8	4306.1	3961.7	3624.4	3533.7
30°	4241.5	3906.1	3678.7	3705.5	3736.8	4079.3	4354.6	4125.9	3764.9	3667.8
32.5°	4258.8	3922.1	3692.1	3697.2	3790.5	4093.3	4408.3	4304.8	3949.6	3852.5
35°	4328.4	4012.8	3777.7	3765.6	3911.2	4185.3	4499.6	4585.9	4201.9	4091.4
37.5°	4440.9	4193.6	3934.2	3931.0	4142.5	4351.4	4613.4	4869.6	4453.0	4334.2
40°	4606.3	4405.1	4212.8	4195.5	4456.8	4621.7	4760.9	5171.7	4745.0	4592.3
42.5°	4806.3	4658.7	4580.1	4648.5	4899.6	4925.1	4990.9	5450.9	4993.5	4815.9
45°	4991.6	4984.6	5093.8	5275.2	5421.5	5268.2	5231.2	5638.1	5186.4	4993.5
47.5°	5212.0	5402.4	5732.0	5997.8	6151.2	5667.5	5436.2	5760.2	5327.0	5149.4
50°	5435.6	5902.6	6429.1	6799.6	6832.2	6101.3	5577.4	5875.2	5454.8	5270.1
52.5°	5670.7	6301.9	7002.8	7433.4	7370.1	6478.9	5714.2	5953.1	5586.4	5424.1
55°	5875.2	6546.6	7323.5	7736.9	7644.2	6708.9	5861.7	6037.4	5774.2	5637.5
57.5°	5989.5	6567.1	7243.6	7604.6	7504.3	6664.2	5929.5	6100.0	5894.3	5787.0
58°	6006.1	6539.6	7172.7	7527.9	7425.7	6626.5	5928.8	6097.5	5902.0	5794.0
60°	5991.4	6361.3	6908.9	7225.1	7117.8	6390.1	5904.5	6049.6	5804.9	5713.5
62.5°	5855.4	6052.1	6453.3	6683.3	6652.7	6020.8	5804.9	5868.8	5509.1	5420.9
65°	5676.5	5630.5	5870.0	6033.0	6056.0	5744.2	5705.9	5477.8	5129.6	5005.0
67.5°	5459.2	5152.6	5151.9	5244.6	5282.9	5318.7	5499.5	5052.9	4582.7	4451.1
70°	5090.6	4415.9	4212.8	4322.0	4290.1	4592.3	5130.9	4456.2	3923.4	3769.4
72.5°	4414.7	3504.3	3179.1	3319.6	3239.1	3601.4	4489.4	3667.2	3244.2	3055.1
75°	3578.4	2621.3	2285.9	2415.0	2365.1	2731.9	3735.5	2663.5	2326.8	2254.6
77.5°	2778.5	1899.4	1704.5	1686.6	1723.7	2032.9	2740.2	1798.5	1534.0	1484.8
80°	1785.0	1359.5	1371.0	1348.0	1367.2	1281.6	1663.6	1147.4	1038.8	999.2
82.5°	1174.9	947.5	1129.5	1042.7	990.3	861.9	1091.2	751.3	637.6	615.9
85°	800.5	697.7	635.0	485.6	571.8	663.8	818.4	404.4	320.7	290.7
87.5°	361.6	242.8	178.2	109.9	173.8	200.6	397.4	47.3	36.4	37.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)