

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: P526468

Luminaire Tested: **GALN-SA1B-830-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526468
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-SA1B-830-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS 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: 3408 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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



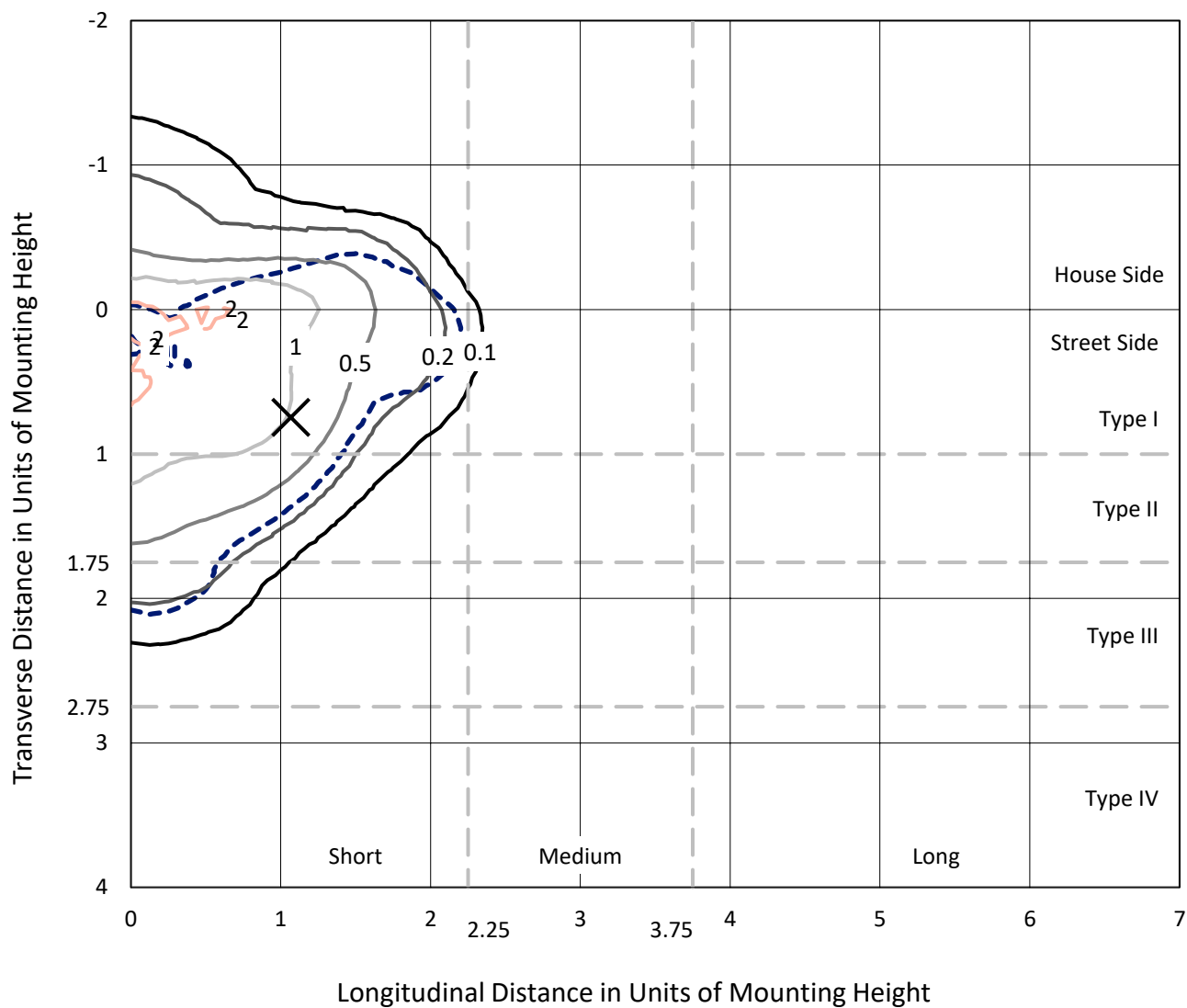
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

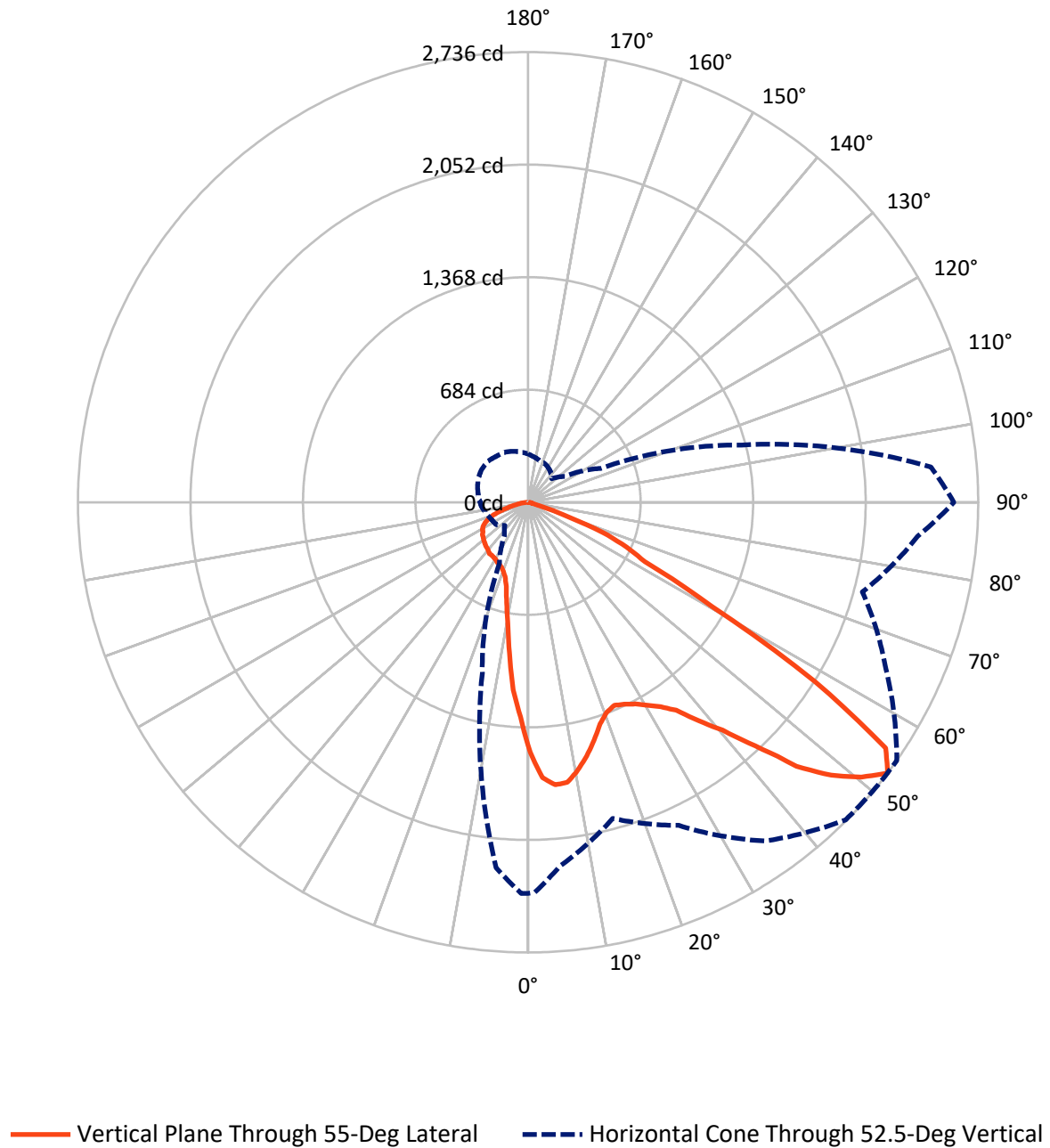


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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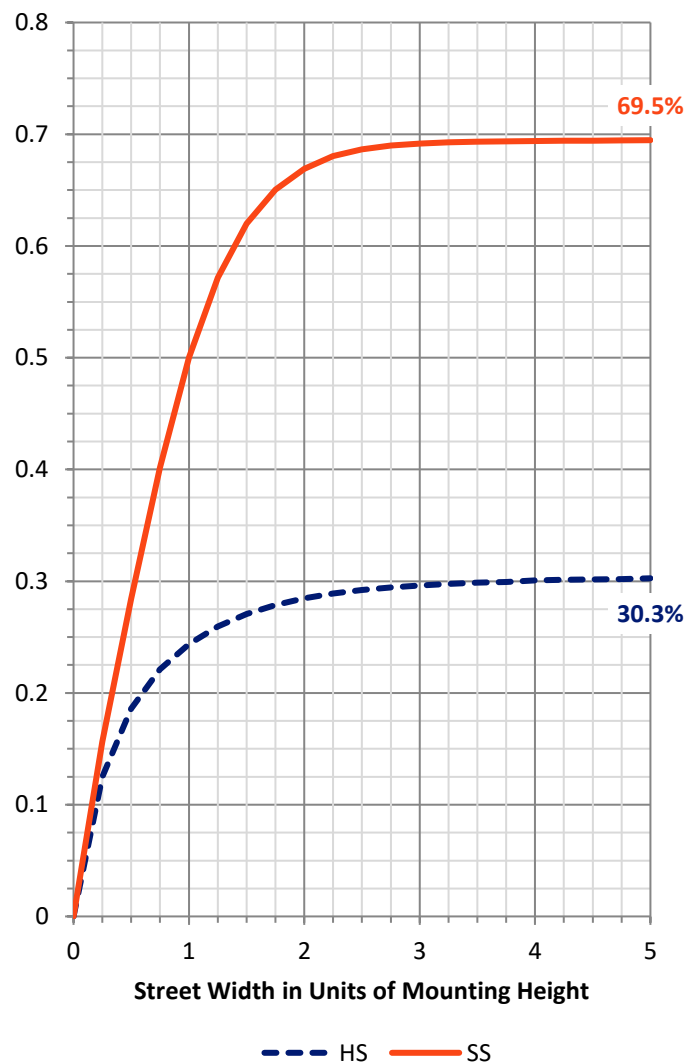
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1039.6	0.0	1039.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	2368.4	0.0	2368.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	3408.0	0.0	3408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	3.4
10°-20°	250.4	7.3
20°-30°	379.7	11.1
30°-40°	548.6	16.1
40°-50°	733.1	21.5
50°-60°	818.3	24.0
60°-70°	448.9	13.2
70°-80°	97.0	2.8
80°-90°	15.7	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°	3408.0	100.0
0°-180°	3408.0	100.0

Coefficient of Utilization



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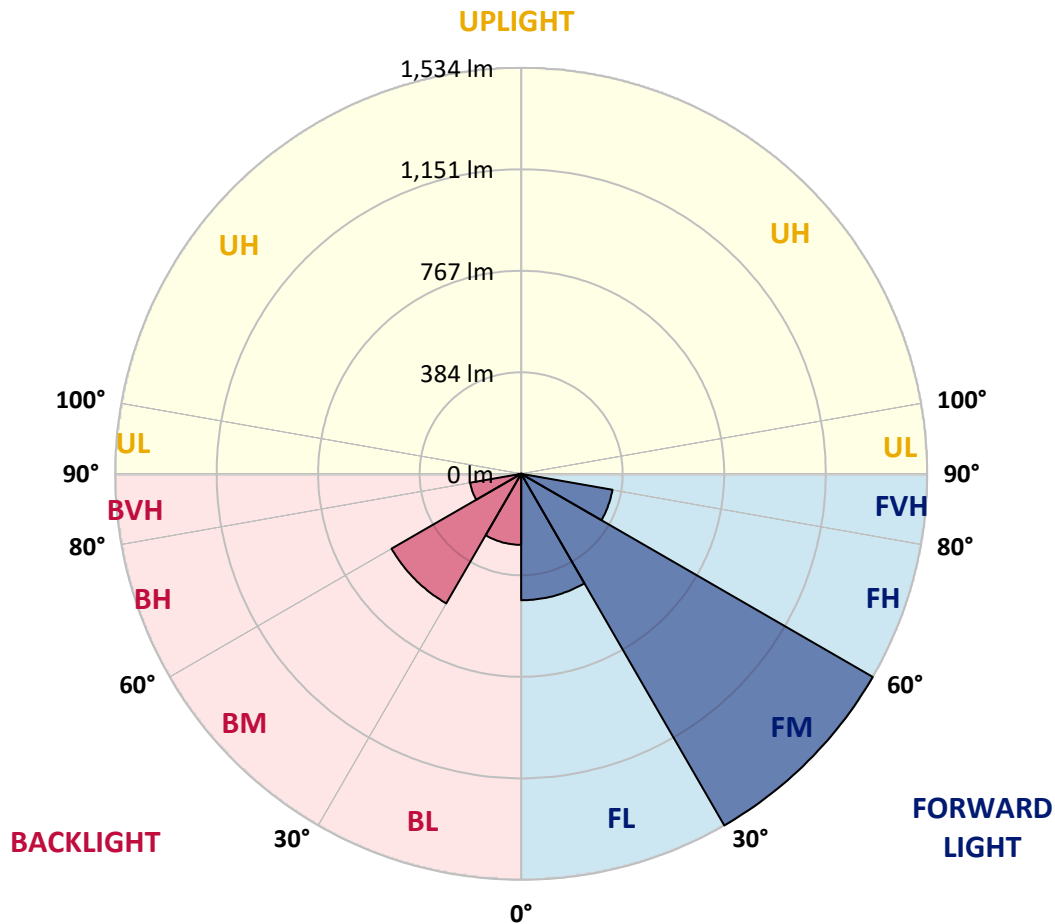
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	477.9	14.0			
FM	(30°-60°)	1534.4	45.0			
FH	(60°-80°)	350.3	10.3			G0/660
FVH	(80°-90°)	5.8	0.2			G0/10
BL	(0°-30°)	268.4	7.9	B1/500		
BM	(30°-60°)	565.6	16.6	B1/1000		
BH	(60°-80°)	195.7	5.7	B1/500		G1/500
BVH	(80°-90°)	9.9	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2
2.5°	1595.4	1586.4	1594.4	1632.2	1654.1	1669.0	1678.5	1677.0	1641.2	1606.3	1606.3
5°	1548.6	1537.2	1553.6	1639.2	1725.3	1732.7	1745.2	1724.8	1672.0	1608.3	1528.7
7.5°	1413.2	1421.7	1449.1	1561.5	1673.5	1729.7	1744.7	1718.8	1633.2	1514.3	1397.3
10°	1296.3	1316.2	1379.4	1500.8	1603.8	1677.0	1693.4	1657.1	1589.4	1443.6	1339.1
12.5°	1256.0	1243.6	1313.7	1435.1	1533.7	1573.0	1580.4	1582.9	1537.2	1407.8	1280.4
15°	1251.0	1259.0	1313.7	1405.8	1466.5	1468.5	1480.9	1500.3	1506.3	1432.2	1307.7
17.5°	1322.7	1313.2	1369.5	1442.6	1413.7	1384.9	1387.9	1415.7	1465.0	1453.1	1393.8
20°	1428.7	1450.1	1494.4	1486.9	1409.3	1336.1	1336.6	1363.0	1460.0	1539.6	1513.8
22.5°	1604.8	1625.7	1658.6	1568.5	1409.3	1321.7	1304.8	1340.6	1491.9	1642.6	1649.1
25°	1765.6	1803.9	1812.8	1706.8	1479.9	1335.1	1324.2	1359.5	1523.7	1743.2	1804.4
27.5°	1911.9	1925.8	1965.1	1795.9	1519.2	1344.1	1343.1	1388.4	1564.0	1793.4	1943.2
30°	2027.3	2025.8	2048.2	1852.1	1581.9	1394.3	1346.1	1431.7	1616.8	1876.5	2071.6
32.5°	2105.9	2122.9	2170.1	1930.3	1608.3	1442.1	1404.3	1482.4	1681.0	1915.8	2162.2
35°	2244.3	2273.6	2213.9	1973.6	1691.9	1489.4	1445.1	1551.6	1712.8	1958.6	2273.1
37.5°	2374.6	2352.3	2291.5	1997.0	1746.2	1577.0	1535.7	1685.4	1811.8	2051.7	2346.8
40°	2458.2	2457.7	2349.8	2015.9	1784.5	1710.8	1708.3	1821.3	1933.3	2110.4	2429.4
42.5°	2494.6	2529.4	2373.7	2013.9	1865.1	1873.0	1923.3	2024.3	2019.3	2122.4	2427.4
44°	2544.3	2565.2	2415.0	2018.4	1918.8	1982.5	2101.0	2165.1	2094.5	2115.9	2424.9
45°	2542.3	2543.8	2356.2	2024.3	1964.6	2074.1	2180.1	2288.6	2160.7	2102.0	2457.7
47.5°	2484.1	2467.2	2306.5	1980.0	2107.4	2315.9	2414.0	2479.6	2242.3	2072.1	2416.9
50°	2369.2	2349.8	2185.6	1961.1	2137.3	2466.2	2601.6	2625.4	2316.4	2042.7	2376.6
52.5°	2377.1	2371.7	2219.9	1989.5	2167.1	2513.5	2730.4	2736.4	2400.5	2104.4	2377.1
55°	2519.5	2500.5	2318.4	2024.8	2145.2	2458.2	2648.3	2637.9	2372.2	2067.1	2420.9
57.5°	2305.5	2317.9	2182.1	1885.0	1877.5	1998.4	2082.0	2056.2	1979.5	1865.6	2252.2
60°	1860.1	1895.4	1908.4	1576.5	1416.7	1354.5	1329.6	1283.9	1296.8	1532.7	1978.5
62.5°	1595.4	1593.4	1674.5	1429.2	928.1	798.2	786.2	796.7	946.0	1508.8	1937.7
65°	1265.0	1298.8	1323.7	1211.2	734.5	592.7	592.2	658.4	818.6	1261.0	1564.5
67.5°	803.2	847.4	878.3	774.8	491.2	422.0	410.5	490.2	567.3	827.0	942.0
70°	452.8	473.7	487.7	446.9	312.5	219.0	206.0	224.9	342.9	535.4	558.3
72.5°	174.7	184.1	203.0	204.5	117.9	70.7	57.2	68.7	144.3	212.0	202.0
75°	26.9	28.9	40.8	48.8	33.8	25.9	27.4	28.4	40.3	54.7	45.8
77.5°	12.9	12.9	12.4	14.4	16.9	18.4	19.9	21.9	23.9	26.4	25.4
80°	8.5	8.5	8.5	10.0	12.4	14.9	16.9	17.9	18.9	20.9	19.9
82.5°	5.5	5.5	5.5	7.5	10.0	12.4	13.4	15.9	17.9	20.9	19.4
85°	3.0	3.0	3.0	5.0	7.5	10.5	10.0	8.0	4.5	0.5	1.0
87.5°	1.0	1.0	1.0	1.0	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°	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2
2.5°	1564.5	1541.6	1539.6	1492.9	1451.1	1430.7	1414.2	1368.5	1378.4	1352.0	1351.5
5°	1488.9	1442.1	1366.5	1304.3	1242.1	1229.6	1175.4	1128.1	1129.6	1095.8	1101.7
7.5°	1353.0	1320.7	1228.6	1131.1	1048.5	989.8	938.5	907.7	868.3	854.9	847.9
10°	1266.9	1227.1	1123.6	1001.2	908.7	877.3	828.0	800.7	760.4	740.5	726.5
12.5°	1229.1	1170.9	1041.5	917.1	855.4	823.1	781.3	731.5	683.7	665.3	639.9
15°	1233.1	1163.4	1017.6	883.3	809.1	746.4	709.1	653.9	605.1	572.8	554.3
17.5°	1293.3	1208.7	1028.6	857.4	750.9	672.3	599.1	539.4	500.6	476.2	470.3
20°	1435.6	1320.7	1047.0	815.6	692.7	594.7	504.6	442.4	412.5	412.0	412.5
22.5°	1554.1	1440.1	1084.3	790.7	634.5	495.1	405.6	385.7	379.7	392.1	393.6
25°	1713.8	1574.5	1148.5	777.8	580.7	422.0	366.7	359.3	358.8	374.7	375.2
27.5°	1877.5	1691.9	1186.8	740.0	526.0	384.2	343.4	341.9	349.8	366.7	365.3
30°	1989.0	1790.4	1256.0	694.7	461.3	350.8	333.9	335.9	346.8	359.8	361.8
32.5°	2118.9	1887.5	1273.9	669.8	421.5	323.0	311.0	315.5	329.4	349.8	360.8
35°	2267.7	1956.1	1301.3	636.0	406.6	301.6	295.6	300.6	317.5	330.9	342.9
37.5°	2377.6	2077.6	1306.3	609.6	390.1	289.6	280.2	296.6	306.5	325.4	331.4
40°	2459.2	2165.6	1319.2	593.2	377.2	274.2	274.2	285.1	298.6	316.0	327.9
42.5°	2511.5	2229.8	1328.6	578.2	352.3	269.7	267.2	278.2	296.1	313.0	318.5
44°	2543.3	2257.2	1319.2	564.3	345.3	264.2	264.2	273.7	287.6	307.5	314.0
45°	2551.3	2291.5	1298.3	563.8	336.9	257.8	256.8	274.7	284.1	308.5	312.5
47.5°	2582.2	2333.8	1300.8	547.9	316.5	242.3	259.8	267.7	276.2	297.6	311.0
50°	2581.2	2360.2	1295.3	524.5	301.6	224.9	253.8	262.7	271.2	293.1	298.6
52.5°	2588.1	2458.7	1345.6	487.2	274.7	202.5	233.9	253.8	264.2	282.6	294.1
55°	2584.6	2515.0	1395.3	459.3	236.9	189.1	217.0	240.4	255.3	274.7	280.2
57.5°	2360.7	2222.9	1291.3	407.1	196.1	173.2	193.1	226.4	245.3	265.2	272.2
60°	1928.8	1713.3	1064.9	299.6	161.2	159.2	179.6	221.9	229.9	247.3	259.3
62.5°	1782.5	1502.8	844.5	228.9	137.8	145.8	165.7	200.5	213.0	234.4	245.3
65°	1394.8	998.2	523.0	154.8	121.4	130.9	149.8	175.7	196.1	216.0	228.9
67.5°	826.1	545.4	258.8	108.5	106.0	115.9	135.4	154.8	178.1	200.0	206.5
70°	449.8	268.2	110.5	82.6	90.1	99.0	117.9	131.4	153.8	170.7	181.6
72.5°	144.3	81.6	55.2	61.2	68.7	79.1	90.6	107.0	122.9	132.9	141.8
75°	34.8	34.3	39.3	42.8	49.8	57.7	67.2	75.6	88.1	97.5	105.5
77.5°	24.4	26.4	30.4	35.3	37.8	40.8	46.8	53.2	58.7	65.7	70.7
80°	18.9	20.4	23.4	25.9	28.4	30.9	33.8	36.3	39.8	44.3	46.8
82.5°	17.9	18.9	21.9	23.4	22.4	21.9	23.9	24.9	25.4	26.9	28.4
85°	1.5	0.0	1.0	3.5	8.5	12.4	13.4	13.4	12.9	13.9	13.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	1.5
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°	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2
2.5°	1345.6	1328.6	1335.1	1343.1	1331.6	1305.3	1312.2	1309.2	1336.1	1334.1	1361.0
5°	1128.1	1101.7	1104.7	1143.5	1131.1	1144.5	1117.7	1114.2	1119.1	1121.6	1126.1
7.5°	863.4	859.9	889.7	922.6	938.0	922.1	895.7	889.7	884.3	873.3	898.2
10°	704.6	705.6	703.6	728.5	745.9	742.5	726.5	724.5	714.1	710.1	724.0
12.5°	629.0	615.6	609.1	601.1	614.6	623.5	616.6	611.6	612.1	617.0	619.0
15°	555.8	547.4	533.4	524.5	531.0	526.5	524.0	533.9	531.5	530.5	542.4
17.5°	473.7	480.7	479.7	469.8	478.2	474.7	474.2	467.3	457.8	450.8	454.8
20°	419.5	432.4	442.4	442.9	447.4	446.9	439.4	418.0	411.0	409.5	410.5
22.5°	400.1	407.1	419.0	435.9	435.9	428.0	419.0	394.1	387.6	380.7	377.7
25°	384.7	398.1	413.5	415.5	423.5	416.0	401.6	389.1	375.7	366.2	366.2
27.5°	376.7	391.6	403.1	406.6	417.5	411.5	396.6	380.7	364.8	364.3	355.8
30°	373.2	387.1	394.6	403.1	408.0	398.6	394.1	377.2	361.3	357.3	343.4
32.5°	362.8	382.7	396.6	394.6	398.6	394.6	388.1	374.2	356.3	347.3	345.8
35°	350.8	370.7	385.7	396.1	398.6	390.1	386.2	367.2	342.9	338.4	323.0
37.5°	344.4	356.3	374.7	391.6	395.1	390.6	377.2	357.8	333.4	328.4	315.0
40°	336.4	351.8	366.2	380.2	390.6	379.7	364.3	345.3	334.4	319.5	315.5
42.5°	330.4	347.8	359.8	375.2	387.1	372.7	354.8	341.9	326.4	316.5	305.0
44°	328.4	344.4	352.3	371.2	381.2	370.2	355.3	341.9	324.0	315.0	305.0
45°	321.5	343.4	351.8	368.7	377.2	368.2	349.3	335.9	323.0	312.0	301.6
47.5°	314.5	329.4	343.9	357.3	363.3	360.3	344.4	327.9	312.5	306.0	296.1
50°	312.5	327.4	340.9	353.3	360.3	354.3	339.9	324.0	306.0	295.6	287.1
52.5°	302.6	321.0	335.9	339.9	348.8	345.3	334.4	317.0	300.1	291.1	284.1
55°	288.1	307.5	327.9	332.9	345.8	340.4	324.0	307.5	293.1	279.7	270.7
57.5°	282.6	301.6	321.5	327.9	335.9	326.9	323.0	305.5	282.6	275.7	261.7
60°	268.7	292.6	309.0	324.0	324.4	322.0	315.0	295.1	276.2	263.2	253.3
62.5°	257.8	280.2	293.1	307.0	315.5	308.5	301.6	283.1	262.7	248.3	236.9
65°	241.8	262.2	273.2	281.7	291.1	290.1	278.2	264.7	243.3	231.9	220.9
67.5°	217.5	235.4	250.3	258.3	264.2	262.7	253.8	244.3	222.4	211.0	203.0
70°	188.1	206.5	216.0	220.4	226.4	229.4	222.4	218.0	198.6	183.6	176.2
72.5°	151.3	163.2	177.2	181.1	183.6	185.6	185.6	181.6	161.7	155.8	142.8
75°	111.5	120.9	131.4	131.4	135.9	136.3	137.3	134.9	119.9	112.0	109.0
77.5°	75.6	82.6	91.1	94.5	97.5	97.0	96.5	89.6	81.6	78.1	75.1
80°	49.3	56.2	60.2	64.7	67.7	67.2	68.2	63.2	59.7	53.7	54.7
82.5°	29.4	34.8	38.8	44.3	44.3	45.8	45.8	44.3	40.8	37.8	37.8
85°	13.9	18.4	20.9	24.4	26.4	26.9	23.9	20.4	16.9	15.4	16.9
87.5°	2.5	3.5	5.0	4.5	5.5	5.0	5.0	5.0	5.0	4.0	4.5
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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CATALOG NUMBER: GALN-SA1B-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2
2.5°	1351.0	1375.9	1393.3	1422.2	1472.0	1511.8	1552.6	1582.9	1586.4	1595.4
5°	1142.5	1156.0	1200.3	1258.0	1298.8	1366.0	1409.3	1487.9	1517.2	1548.6
7.5°	892.2	914.1	973.3	1012.2	1101.7	1185.8	1272.9	1370.0	1408.8	1413.2
10°	752.4	784.3	824.6	886.8	935.5	1029.1	1137.6	1245.5	1288.8	1296.3
12.5°	660.8	701.6	755.4	800.2	847.0	928.6	1032.6	1165.9	1222.2	1256.0
15°	572.8	615.1	674.3	736.5	777.8	875.3	997.7	1148.0	1221.2	1251.0
17.5°	482.2	521.5	570.3	637.5	720.6	830.0	992.3	1207.7	1287.8	1322.7
20°	404.6	426.5	483.2	552.4	656.4	783.8	994.2	1295.8	1413.2	1428.7
22.5°	374.2	379.2	401.6	465.3	579.2	736.5	1029.6	1420.7	1554.1	1604.8
25°	350.8	349.8	355.8	398.6	523.0	718.1	1064.4	1535.7	1710.3	1765.6
27.5°	337.9	327.9	328.4	368.7	483.2	688.2	1109.2	1667.5	1887.5	1911.9
30°	331.4	329.4	323.5	339.9	439.9	643.4	1116.7	1797.4	1992.0	2027.3
32.5°	327.4	308.0	300.6	306.5	399.1	594.7	1144.5	1883.0	2121.4	2105.9
35°	307.5	290.1	285.1	291.1	370.2	567.3	1126.1	1957.6	2218.4	2244.3
37.5°	300.1	284.6	274.7	269.7	343.4	544.4	1116.7	2072.6	2312.4	2374.6
40°	293.1	276.7	264.7	259.8	322.5	514.0	1113.7	2161.2	2420.9	2458.2
42.5°	285.1	274.7	261.3	252.3	297.1	483.7	1079.3	2188.5	2454.3	2494.6
44°	282.6	266.7	252.8	249.8	287.1	468.3	1072.4	2213.4	2483.1	2544.3
45°	280.2	265.2	249.3	245.3	283.6	459.8	1062.9	2219.4	2530.9	2542.3
47.5°	273.2	263.7	248.3	237.4	276.2	441.4	1034.6	2185.6	2482.1	2484.1
50°	267.7	256.8	240.8	219.5	266.2	426.0	1047.5	2173.1	2364.7	2369.2
52.5°	261.7	245.3	236.4	199.5	249.8	413.0	1074.9	2229.3	2378.1	2377.1
55°	254.8	236.9	215.0	182.6	222.4	396.6	1141.0	2340.3	2502.5	2519.5
57.5°	243.8	228.4	197.1	167.7	191.1	365.3	1119.6	2127.8	2302.5	2305.5
60°	229.4	215.0	178.6	156.3	156.8	288.1	1001.2	1658.1	1816.8	1860.1
62.5°	215.5	207.5	163.2	139.8	133.4	229.4	846.5	1377.9	1559.5	1595.4
65°	199.0	179.6	149.8	127.4	114.5	160.7	599.6	1029.6	1216.7	1265.0
67.5°	178.1	157.2	131.9	112.0	98.0	107.5	309.5	585.2	774.8	803.2
70°	155.8	136.3	111.0	94.5	79.1	74.1	136.3	279.2	423.5	452.8
72.5°	127.9	110.0	88.6	74.6	59.2	51.3	45.8	74.6	150.3	174.7
75°	92.6	80.1	66.7	53.2	41.8	32.8	26.9	22.4	24.9	26.9
77.5°	68.2	58.2	49.3	37.8	29.4	23.4	18.4	13.9	13.4	12.9
80°	53.2	47.3	39.3	30.4	22.9	17.4	12.9	9.5	8.5	8.5
82.5°	41.8	38.8	32.3	24.9	18.9	13.9	9.5	6.5	5.5	5.5
85°	15.9	15.9	23.4	20.4	14.4	10.0	6.5	3.5	3.0	3.0
87.5°	4.0	4.0	4.0	4.0	3.5	3.0	3.0	1.5	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)