

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: P528654

Luminaire Tested: **GALN-SA3D-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528654
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-SA3D-730-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 15664 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

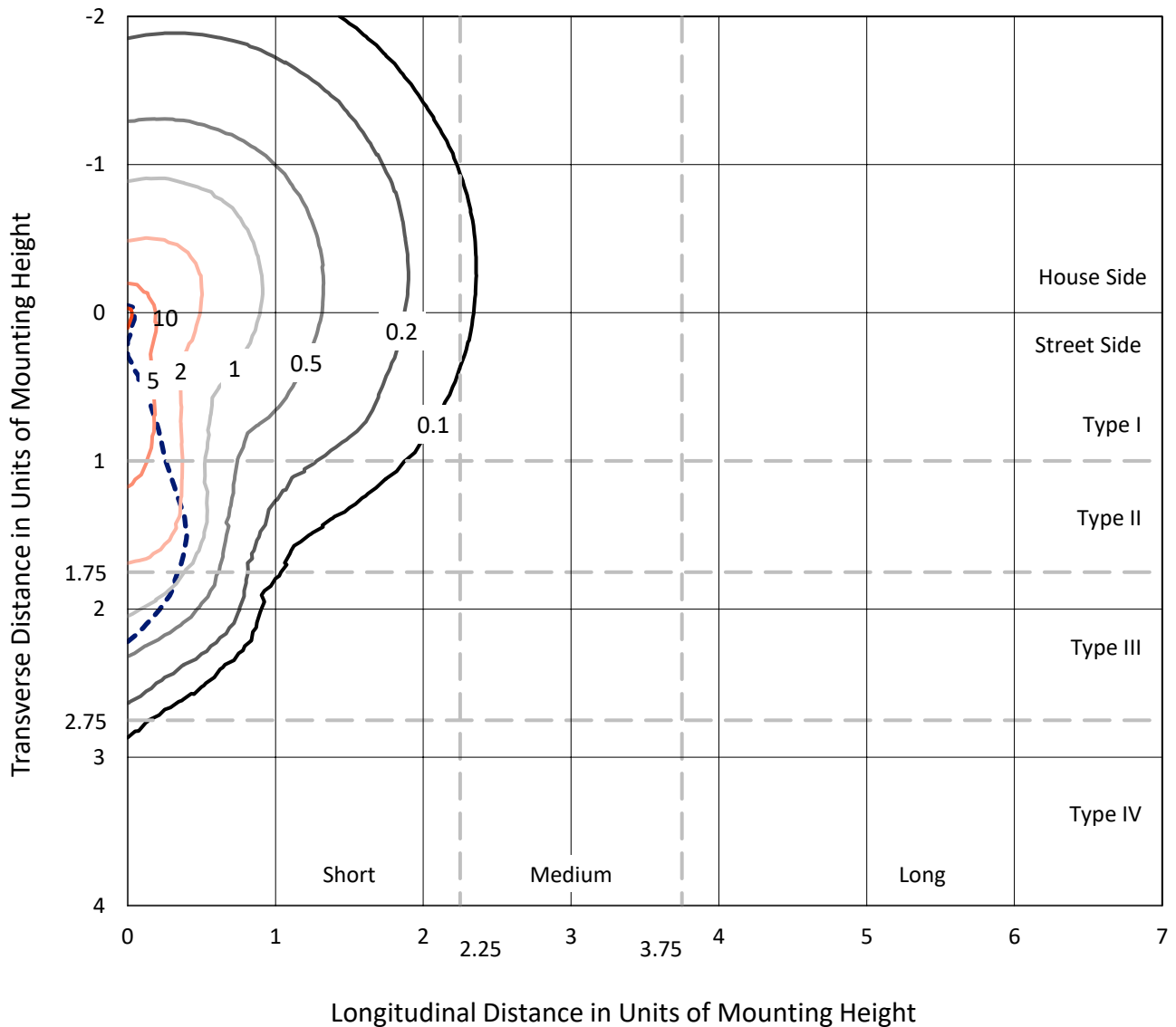
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

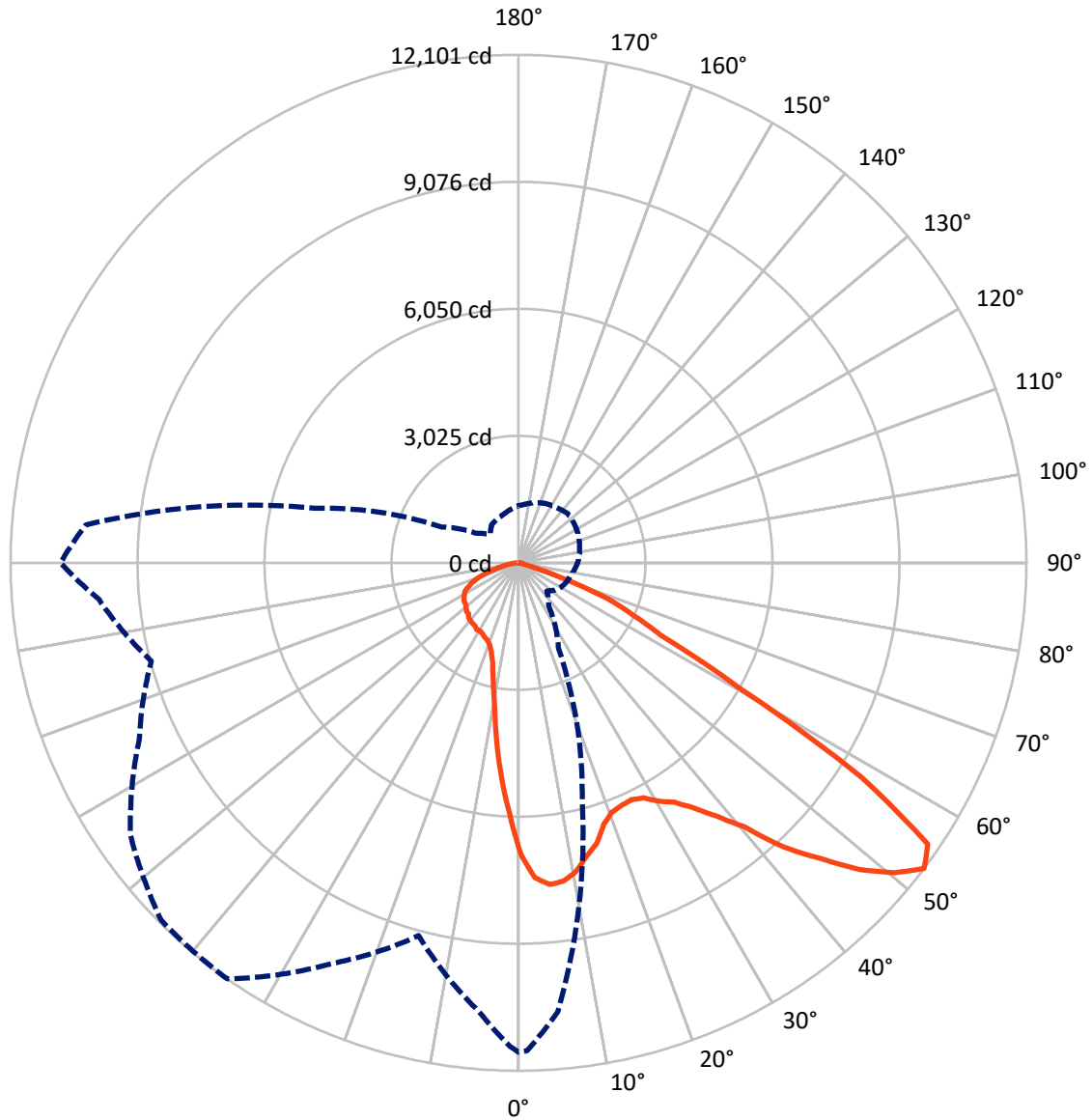
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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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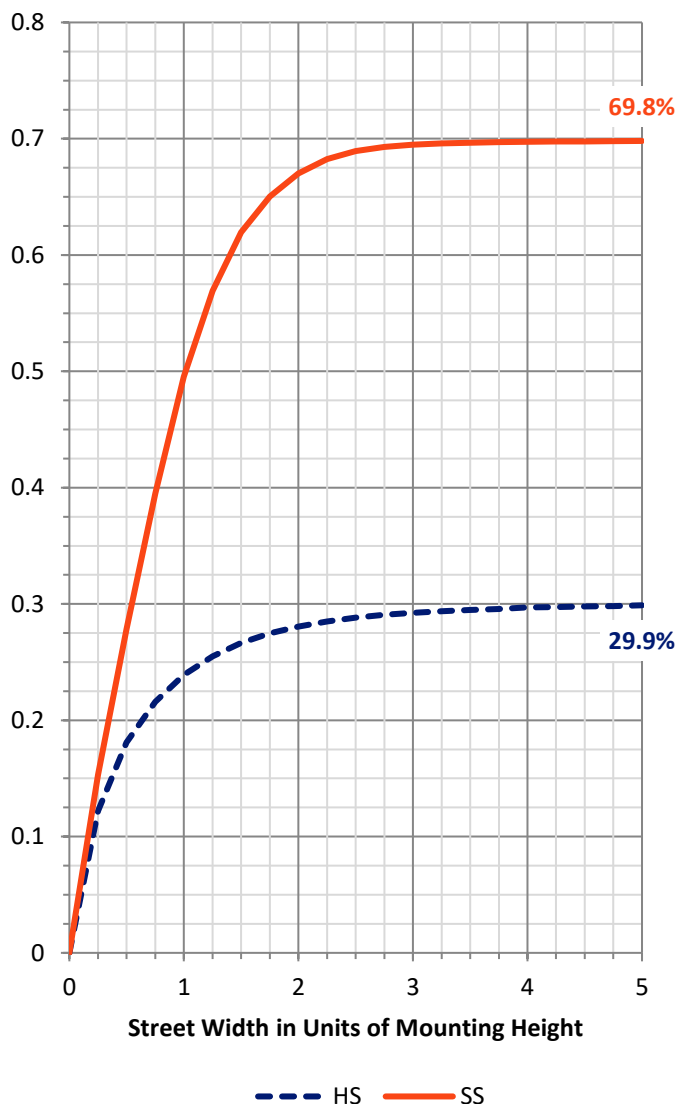
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4722.0	0.0	4722.0
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	10942.0	0.0	10942.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	15664.0	0.0	15664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.4	3.4
10°-20°	1149.7	7.3
20°-30°	1737.2	11.1
30°-40°	2510.3	16.0
40°-50°	3340.7	21.3
50°-60°	3736.7	23.9
60°-70°	2106.0	13.4
70°-80°	469.5	3.0
80°-90°	83.6	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°	15664.0	100.0
0°-180°	15664.0	100.0

Coefficient of Utilization



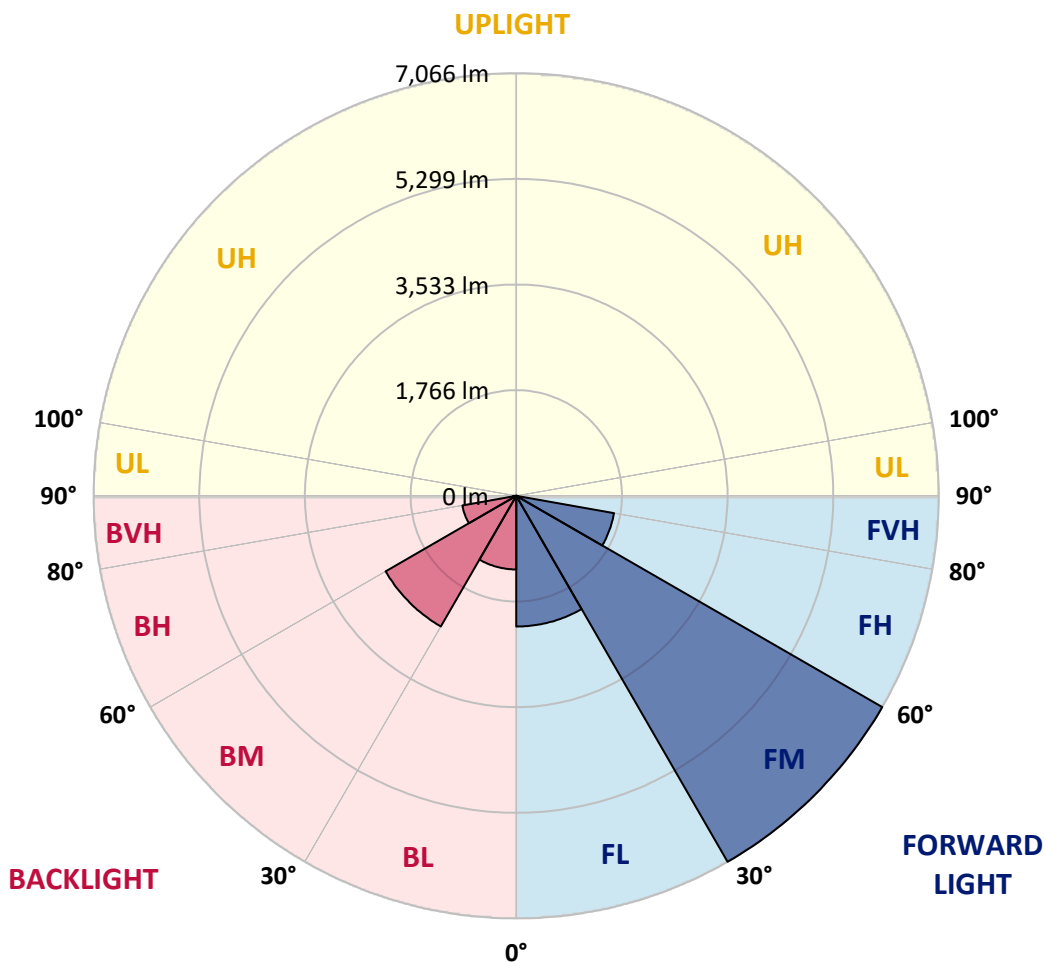
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2185.9	14.0			
FM (30°-60°)	7065.7	45.1			
FH (60°-80°)	1660.1	10.6			G1/1800
FVH (80°-90°)	30.3	0.2			G1/100
BL (0°-30°)	1231.4	7.9	B3/2500		
BM (30°-60°)	2522.0	16.1	B3/5000		
BH (60°-80°)	915.3	5.8	B2/1000		G2/1000
BVH (80°-90°)	53.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8
2.5°	7067.6	7181.1	7058.5	6840.5	6686.1	6545.4	6397.8	6368.3	6175.3	6141.3	6000.5
5°	6665.7	6640.7	6490.9	6204.8	5889.3	5603.2	5392.1	5187.7	5049.2	4888.0	4876.7
7.5°	6177.6	6032.3	5946.0	5512.4	5121.9	4672.4	4479.4	4168.3	4070.7	3925.4	3850.5
10°	5741.7	5635.0	5432.9	4999.3	4454.4	4157.0	3950.4	3782.4	3668.9	3519.0	3330.6
12.5°	5526.0	5482.9	5255.8	4583.8	4179.7	3861.8	3716.5	3553.1	3360.1	3119.4	3026.4
15°	5564.6	5419.3	5246.8	4504.4	3945.9	3639.4	3407.8	3203.4	2956.0	2726.7	2592.7
17.5°	5852.9	5741.7	5396.6	4554.3	3857.3	3414.6	2994.6	2692.6	2470.1	2263.5	2170.4
20°	6420.5	6259.3	5871.1	4617.9	3666.6	3101.3	2620.0	2247.6	2009.3	1900.3	1868.5
22.5°	7049.4	6954.0	6334.2	4760.9	3514.5	2810.7	2222.7	1850.3	1761.8	1732.3	1791.3
25°	7814.5	7567.0	7053.9	4994.7	3396.4	2563.2	1886.7	1680.1	1634.6	1664.2	1732.3
27.5°	8395.7	8329.9	7558.0	5215.0	3235.2	2265.8	1698.2	1562.0	1575.6	1605.1	1668.7
30°	9085.9	8752.2	8046.1	5367.1	3089.9	2061.5	1566.5	1530.2	1543.8	1593.8	1625.6
32.5°	9501.4	9376.5	8352.6	5596.4	2921.9	1884.4	1464.4	1430.3	1450.7	1525.7	1600.6
35°	10030.4	9782.9	8731.7	5655.4	2803.9	1814.0	1391.7	1366.7	1414.4	1466.6	1550.6
37.5°	10647.9	10477.6	9256.2	5614.5	2740.3	1741.4	1330.4	1319.1	1353.1	1425.8	1523.4
40°	11013.4	10961.2	9530.9	5639.5	2640.4	1677.8	1260.0	1273.7	1344.0	1400.8	1496.2
42.5°	11365.3	11024.8	9937.3	5630.4	2576.8	1591.5	1266.8	1251.0	1305.4	1371.3	1462.1
45°	11442.5	11104.2	10032.6	5566.9	2499.6	1507.5	1214.6	1221.4	1287.3	1369.0	1428.0
47.5°	11392.6	11142.8	10209.7	5548.7	2427.0	1448.5	1137.4	1219.2	1257.8	1323.6	1407.6
50°	11358.5	11344.9	10359.6	5635.0	2329.4	1355.4	1044.4	1189.7	1228.3	1294.1	1384.9
52.5°	11658.2	11628.7	10734.2	5862.0	2252.2	1255.5	949.0	1114.7	1207.8	1271.4	1359.9
55°	11839.8	11710.4	11376.7	6141.3	2122.8	1123.8	883.2	1021.7	1157.9	1214.6	1305.4
57.5°	10650.2	10561.6	10291.4	5732.6	1904.8	951.3	801.4	926.3	1089.8	1178.3	1271.4
60°	8861.1	8722.6	8030.2	4872.1	1405.3	740.1	751.5	851.4	1071.6	1105.7	1214.6
62.5°	8354.8	8012.0	7069.8	3920.9	1078.4	635.7	674.3	783.3	976.2	1033.0	1142.0
65°	6629.4	6375.1	5058.3	2831.1	722.0	551.7	615.3	706.1	842.3	953.5	1053.4
67.5°	4150.2	3907.3	2699.4	1339.5	504.0	472.2	549.4	644.8	756.0	855.9	967.2
70°	2168.2	1902.5	1246.4	483.6	347.4	386.0	458.6	549.4	658.4	740.1	826.4
72.5°	808.2	656.1	406.4	208.9	240.7	295.1	372.3	438.2	515.4	615.3	662.9
75°	124.9	106.7	104.4	127.1	163.5	213.4	265.6	331.5	399.6	463.1	494.9
77.5°	59.0	56.8	63.6	84.0	109.0	152.1	193.0	256.5	311.0	351.9	370.1
80°	38.6	36.3	40.9	56.8	81.7	113.5	154.4	197.5	247.5	281.5	277.0
82.5°	22.7	25.0	25.0	38.6	56.8	81.7	111.2	149.8	183.9	213.4	195.2
85°	13.6	11.4	11.4	22.7	38.6	65.8	93.1	63.6	65.8	65.8	74.9
87.5°	4.5	4.5	4.5	2.3	4.5	4.5	6.8	11.4	13.6	15.9	20.4
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°	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8
2.5°	5996.0	6066.3	6041.4	5952.8	6020.9	6032.3	5986.9	6143.5	6173.1	6125.4	6139.0
5°	4860.8	4879.0	4919.8	5006.1	5067.4	5140.0	5140.0	5144.6	5083.3	5237.7	5192.3
7.5°	3786.9	3798.3	3846.0	4029.9	4082.1	4220.6	4279.6	4238.7	4116.1	4063.9	4107.0
10°	3269.3	3203.4	3187.6	3210.3	3328.3	3387.3	3437.3	3423.7	3403.2	3362.4	3317.0
12.5°	2924.2	2876.5	2837.9	2783.4	2790.2	2847.0	2885.6	2853.8	2862.9	2872.0	2885.6
15°	2549.6	2515.5	2495.1	2413.4	2404.3	2442.9	2456.5	2474.7	2508.7	2511.0	2495.1
17.5°	2152.3	2122.8	2168.2	2213.6	2181.8	2184.1	2209.0	2224.9	2215.9	2175.0	2154.6
20°	1879.8	1911.6	1957.0	2000.2	2034.2	2054.7	2063.7	2038.8	2009.3	1925.2	1923.0
22.5°	1800.4	1841.2	1879.8	1945.7	1977.5	2029.7	1982.0	1925.2	1884.4	1843.5	1795.8
25°	1741.4	1775.4	1852.6	1877.6	1938.9	1982.0	1948.0	1891.2	1820.8	1761.8	1725.5
27.5°	1698.2	1736.8	1786.8	1854.9	1902.5	1927.5	1893.5	1870.8	1798.1	1727.7	1675.5
30°	1671.0	1711.8	1802.6	1859.4	1900.3	1920.7	1861.7	1834.4	1782.2	1723.2	1677.8
32.5°	1652.8	1689.1	1766.3	1839.0	1866.2	1866.2	1875.3	1843.5	1770.9	1671.0	1632.4
35°	1593.8	1643.7	1707.3	1791.3	1841.2	1870.8	1825.4	1789.0	1741.4	1639.2	1568.8
37.5°	1559.7	1593.8	1675.5	1755.0	1798.1	1829.9	1811.7	1748.2	1684.6	1600.6	1543.8
40°	1523.4	1577.9	1650.5	1725.5	1773.1	1804.9	1791.3	1716.4	1639.2	1559.7	1521.1
42.5°	1498.4	1534.7	1609.7	1693.7	1750.4	1811.7	1770.9	1677.8	1623.3	1514.3	1471.2
45°	1478.0	1537.0	1616.5	1650.5	1709.6	1773.1	1700.5	1643.7	1580.2	1500.7	1464.4
47.5°	1453.0	1507.5	1559.7	1650.5	1677.8	1707.3	1693.7	1602.9	1548.4	1462.1	1437.1
50°	1443.9	1464.4	1559.7	1609.7	1648.3	1677.8	1641.5	1573.3	1521.1	1432.6	1378.1
52.5°	1407.6	1446.2	1507.5	1573.3	1621.0	1657.3	1598.3	1555.2	1484.8	1391.7	1357.7
55°	1362.2	1384.9	1493.9	1562.0	1587.0	1611.9	1589.2	1518.9	1446.2	1350.9	1316.8
57.5°	1303.2	1355.4	1443.9	1539.3	1571.1	1584.7	1548.4	1491.6	1400.8	1316.8	1262.3
60°	1241.9	1296.4	1394.0	1471.2	1503.0	1552.9	1498.4	1464.4	1359.9	1266.8	1207.8
62.5°	1180.6	1241.9	1314.5	1412.2	1439.4	1459.8	1446.2	1398.5	1314.5	1210.1	1137.4
65°	1107.9	1153.3	1244.1	1294.1	1312.3	1359.9	1312.3	1294.1	1219.2	1119.3	1058.0
67.5°	998.9	1037.5	1117.0	1164.7	1178.3	1198.7	1196.5	1176.0	1092.0	1023.9	969.4
70°	874.1	908.1	958.1	1014.8	1021.7	1046.6	1023.9	1019.4	964.9	871.8	842.3
72.5°	701.5	733.3	799.2	824.1	826.4	835.5	824.1	808.2	794.6	697.0	667.5
75°	538.1	556.2	588.0	610.7	610.7	622.1	615.3	599.4	563.0	501.7	472.2
77.5°	374.6	392.8	433.6	447.3	445.0	449.5	429.1	413.2	358.7	326.9	302.0
80°	272.4	283.8	304.2	313.3	315.6	322.4	297.4	283.8	252.0	215.7	204.3
82.5°	197.5	204.3	206.6	218.0	218.0	206.6	199.8	186.2	163.5	140.8	131.7
85°	81.7	84.0	86.3	99.9	102.2	122.6	113.5	106.7	93.1	79.5	72.7
87.5°	20.4	22.7	29.5	25.0	29.5	29.5	31.8	36.3	36.3	29.5	29.5
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°	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8
2.5°	6191.2	6209.4	6441.0	6470.5	6584.0	6699.8	6933.6	7101.6	7237.8	7326.4	7351.4
5°	5239.9	5355.7	5462.4	5635.0	5791.6	6014.1	6270.7	6588.5	6988.1	7192.4	7274.2
7.5°	4102.5	4238.7	4393.1	4561.1	4790.4	5190.0	5532.8	5900.6	6411.4	6622.6	6942.7
10°	3348.8	3500.9	3705.2	3834.6	4111.6	4493.0	4892.6	5317.1	5805.3	6109.5	6479.5
12.5°	2960.5	3085.4	3273.8	3546.3	3752.9	4000.3	4297.8	4833.6	5532.8	5821.2	6075.4
15°	2531.4	2669.9	2887.9	3189.8	3437.3	3732.4	4066.2	4649.7	5394.3	5839.3	6055.0
17.5°	2177.3	2277.2	2506.5	2767.5	3051.3	3373.7	3852.8	4640.6	5539.6	6109.5	6461.4
20°	1932.1	1945.7	2070.5	2293.0	2679.0	3099.0	3721.1	4595.2	6005.0	6574.9	7019.9
22.5°	1777.7	1764.1	1766.3	1954.8	2224.9	2828.8	3514.5	4749.6	6534.0	7315.0	7614.7
25°	1700.5	1664.2	1641.5	1682.3	1927.5	2508.7	3357.8	4953.9	7103.9	7925.8	8293.6
27.5°	1659.6	1596.0	1550.6	1557.5	1736.8	2347.5	3260.2	5042.4	7669.2	8777.1	8906.5
30°	1643.7	1564.3	1498.4	1475.7	1593.8	2122.8	3051.3	5194.5	8175.5	9244.8	9356.1
32.5°	1587.0	1489.3	1425.8	1405.3	1453.0	1925.2	2901.5	5303.5	8622.7	9753.4	9714.8
35°	1521.1	1439.4	1359.9	1321.3	1355.4	1798.1	2781.2	5251.3	9149.5	10148.4	10128.0
37.5°	1514.3	1407.6	1341.8	1278.2	1275.9	1641.5	2617.7	5301.2	9485.5	10856.8	10577.5
40°	1455.3	1387.2	1300.9	1248.7	1219.2	1562.0	2458.8	5183.2	9978.1	11142.8	10868.1
42.5°	1457.6	1355.4	1280.5	1219.2	1189.7	1446.2	2349.8	5151.4	10150.7	11608.2	11004.3
45°	1421.2	1321.3	1257.8	1185.1	1169.2	1357.7	2245.4	5003.8	10454.9	11630.9	10834.1
47.5°	1384.9	1296.4	1228.3	1142.0	1105.7	1325.9	2163.6	4881.2	10296.0	11417.5	10597.9
50°	1359.9	1257.8	1194.2	1132.9	1030.7	1271.4	2056.9	4851.7	10073.5	11129.2	10159.8
52.5°	1316.8	1226.0	1160.1	1112.5	949.0	1221.4	2016.1	5024.3	10345.9	10913.5	10032.6
55°	1275.9	1182.8	1098.8	1005.8	880.9	1089.8	1902.5	5185.5	10743.2	11410.7	10609.3
57.5°	1232.8	1144.3	1053.4	942.2	815.1	953.5	1784.5	5215.0	9998.6	10545.7	10071.2
60°	1176.0	1062.5	994.4	849.1	744.7	790.1	1414.4	4597.4	7755.5	8806.6	8822.5
62.5°	1112.5	989.9	930.8	760.6	672.0	681.1	1153.3	3864.1	6291.1	7290.1	7723.7
65°	1028.5	910.4	840.0	703.8	619.8	590.3	844.6	2831.1	4779.1	5914.2	6406.9
67.5°	919.5	808.2	719.7	613.0	554.0	506.3	576.7	1593.8	2822.0	3970.8	4120.7
70°	803.7	708.3	615.3	526.7	460.9	426.8	422.3	706.1	1348.6	2136.4	2431.5
72.5°	633.4	565.3	490.4	424.6	381.4	331.5	302.0	292.9	456.3	869.5	1201.0
75°	454.1	397.3	354.2	311.0	279.3	252.0	229.3	208.9	190.7	218.0	299.7
77.5°	286.1	265.6	231.6	220.2	202.1	195.2	186.2	174.8	161.2	152.1	152.1
80°	193.0	179.4	168.0	165.7	158.9	156.7	158.9	147.6	134.0	122.6	127.1
82.5°	129.4	127.1	124.9	122.6	124.9	127.1	131.7	129.4	118.1	111.2	113.5
85°	77.2	81.7	86.3	90.8	99.9	88.5	72.7	61.3	54.5	49.9	47.7
87.5°	29.5	40.9	36.3	34.1	36.3	34.1	31.8	29.5	25.0	22.7	22.7
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: P528654

CATALOG NUMBER: GALN-SA3D-730-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8	6951.8
2.5°	7517.1	7562.5	7601.1	7592.0	7512.6	7405.8	7362.7	7142.5	7097.1	7067.6
5°	7619.3	7882.6	7939.4	7905.3	7698.7	7437.6	7183.4	6861.0	6672.5	6665.7
7.5°	7430.8	7755.5	7857.6	7934.8	7660.1	7206.1	6770.2	6286.6	6168.5	6177.6
10°	6951.8	7469.4	7721.4	7800.9	7485.3	7092.5	6488.6	5998.2	5746.2	5741.7
12.5°	6686.1	7092.5	7162.9	7274.2	7181.1	6783.8	6325.2	5775.7	5530.5	5526.0
15°	6450.0	6717.9	6738.4	6895.0	6945.0	6677.1	6368.3	5782.6	5585.0	5564.6
17.5°	6656.6	6470.5	6393.3	6413.7	6561.3	6658.9	6618.0	6168.5	5966.5	5852.9
20°	6795.1	6379.7	6145.8	6168.5	6343.3	6699.8	6990.4	6727.0	6406.9	6420.5
22.5°	7165.2	6393.3	6027.8	6002.8	6279.8	6913.2	7410.4	7433.1	7124.3	7049.4
25°	7719.2	6549.9	5991.4	5984.6	6250.2	7142.5	7900.8	8268.6	7953.0	7814.5
27.5°	8164.1	6795.1	6104.9	6127.6	6343.3	7328.7	8318.5	8806.6	8566.0	8395.7
30°	8554.6	7049.4	6263.9	6159.4	6593.1	7426.3	8497.9	9419.6	9226.7	9085.9
32.5°	8715.8	7410.4	6515.9	6343.3	6799.7	7544.3	8870.2	10014.5	9848.7	9501.4
35°	8988.3	7612.4	6652.1	6638.5	7160.7	7828.1	9045.0	10407.2	10339.1	10030.4
37.5°	9206.2	7816.8	7135.7	6985.8	7655.6	8304.9	9326.6	10949.8	10793.2	10647.9
40°	9374.2	8182.3	7587.5	7785.0	8264.0	8738.5	9585.4	10983.9	11435.7	11013.4
42.5°	9219.8	8509.2	8329.9	8802.1	9256.2	9233.5	9614.9	11247.3	11585.5	11365.3
45°	9181.3	9063.2	9503.6	9932.7	10037.2	9644.4	9403.7	10956.7	11540.1	11442.5
47.5°	9088.2	9608.1	10375.5	11074.7	10915.8	9919.1	9151.7	10904.4	11567.4	11392.6
50°	9056.4	9726.1	11020.2	11701.3	11606.0	10157.5	9033.7	10568.4	11374.4	11358.5
52.5°	9054.1	9969.1	11288.1	12041.9	12100.9	10534.4	9194.9	10738.7	11524.2	11658.2
55°	9156.3	9891.9	11254.1	11853.4	11830.7	10366.4	9213.0	10852.2	11708.1	11839.8
57.5°	8636.4	8861.1	9288.0	9762.5	9639.9	8586.4	8227.7	10032.6	10745.5	10650.2
60°	7458.1	6754.3	6272.9	6250.2	6011.9	5682.7	6733.8	8954.2	8954.2	8861.1
62.5°	6531.8	4434.0	3809.6	3632.5	3802.8	4182.0	6495.4	8709.0	8461.6	8354.8
65°	5712.2	3385.1	2753.9	2704.0	2999.1	3571.2	5873.4	7419.5	6983.6	6629.4
67.5°	3675.7	2479.2	2047.8	1959.3	2315.7	2622.2	3909.5	4563.4	4288.7	4150.2
70°	2370.2	1614.2	1139.7	1069.3	1207.8	1616.5	2497.4	2660.8	2261.3	2168.2
72.5°	1121.5	697.0	399.6	329.2	370.1	617.5	987.6	1062.5	883.2	808.2
75°	356.4	256.5	163.5	140.8	134.0	158.9	227.0	174.8	127.1	124.9
77.5°	158.9	152.1	129.4	109.0	95.4	79.5	65.8	54.5	56.8	59.0
80°	131.7	120.3	106.7	95.4	79.5	61.3	47.7	36.3	36.3	38.6
82.5°	115.8	104.4	93.1	79.5	68.1	49.9	36.3	25.0	22.7	22.7
85°	49.9	59.0	63.6	68.1	54.5	40.9	25.0	15.9	13.6	13.6
87.5°	20.4	18.2	15.9	13.6	11.4	11.4	9.1	6.8	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)