

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: P529122

Luminaire Tested: **GALN-SA4B-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529122
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-SA4B-730-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 15268 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

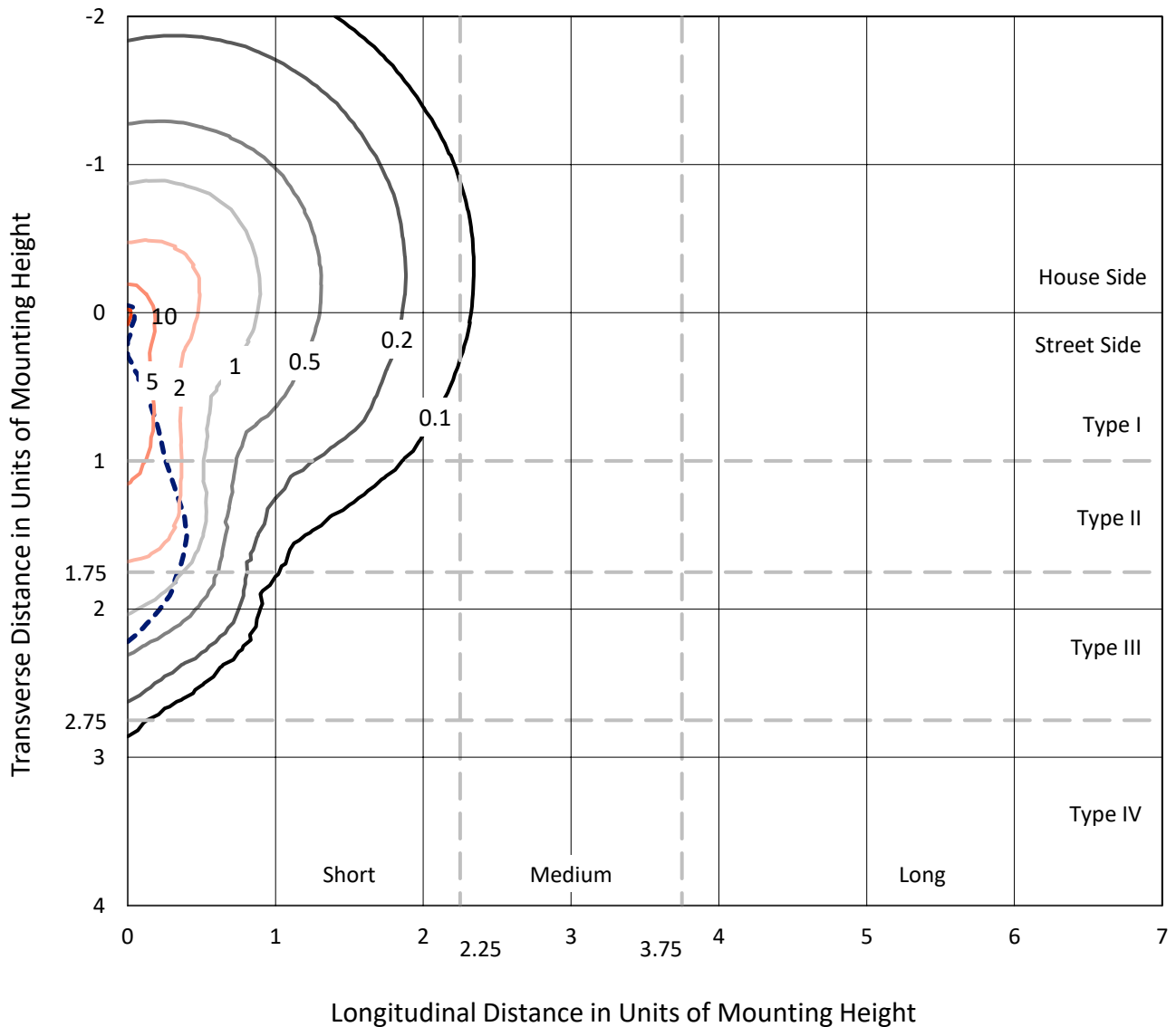
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

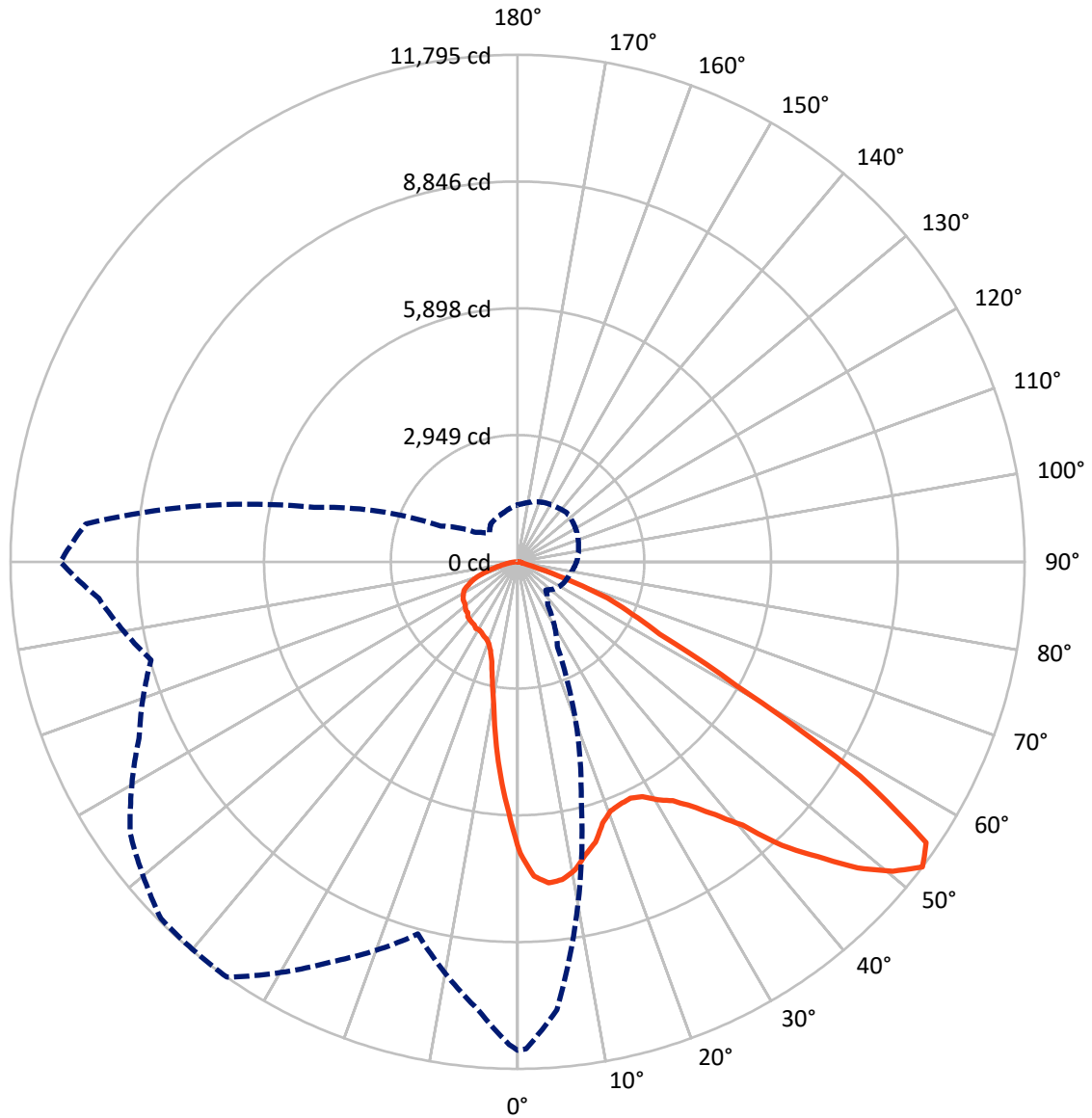
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	4602.7	0.0	4602.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	10665.3	0.0	10665.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	15268.0	0.0	15268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.0	3.4
10°-20°	1120.7	7.3
20°-30°	1693.2	11.1
30°-40°	2446.8	16.0
40°-50°	3256.3	21.3
50°-60°	3642.2	23.9
60°-70°	2052.7	13.4
70°-80°	457.6	3.0
80°-90°	81.5	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°	15268.0	100.0
0°-180°	15268.0	100.0

Coefficient of Utilization



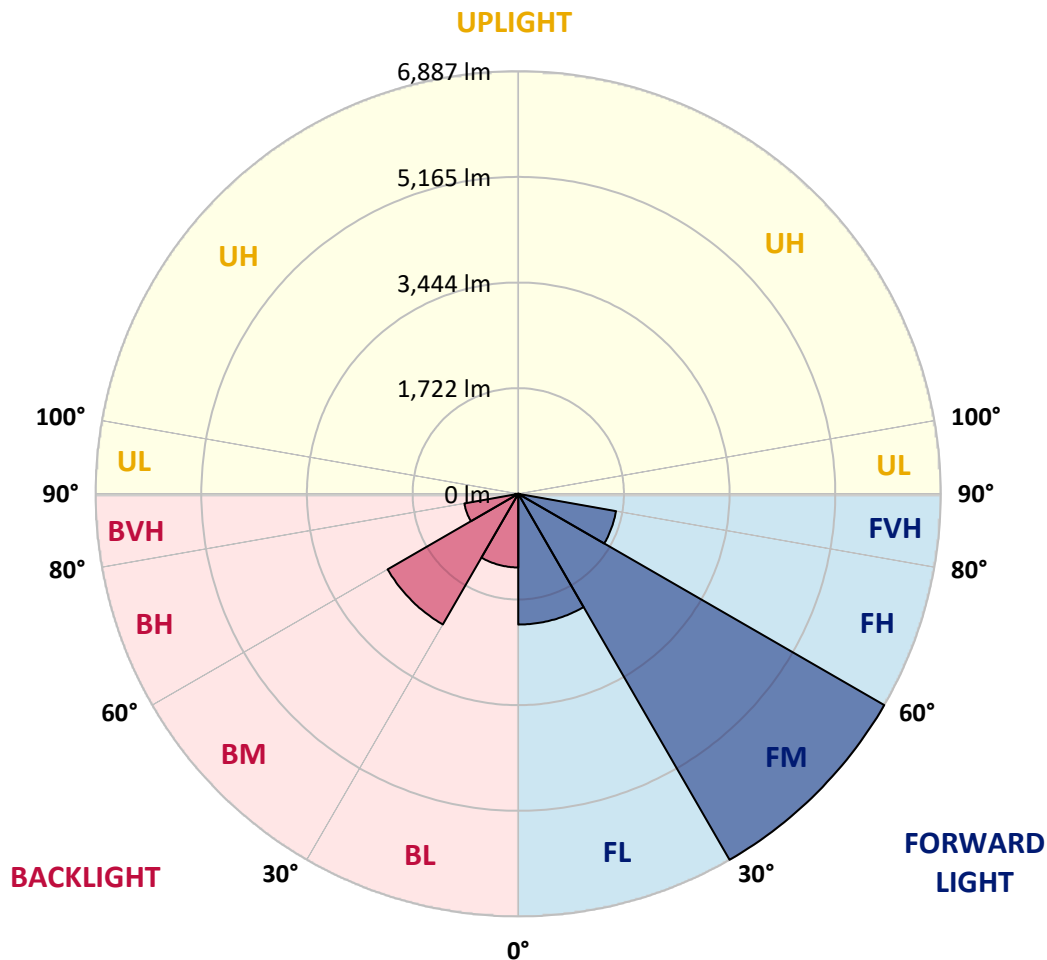
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2130.6	14.0			
FM (30°-60°)	6887.0	45.1			
FH (60°-80°)	1618.2	10.6			G1/1800
FVH (80°-90°)	29.5	0.2			G1/100
BL (0°-30°)	1200.3	7.9	B3/2500		
BM (30°-60°)	2458.3	16.1	B2/2500		
BH (60°-80°)	892.1	5.8	B2/1000		G2/1000
BVH (80°-90°)	52.0	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°	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0
2.5°	6888.9	6999.5	6880.0	6667.6	6517.1	6379.9	6236.1	6207.3	6019.2	5986.0	5848.8
5°	6497.2	6472.9	6326.8	6048.0	5740.4	5461.5	5255.7	5056.6	4921.6	4764.5	4753.4
7.5°	6021.4	5879.8	5795.7	5373.0	4992.4	4554.2	4366.1	4063.0	3967.8	3826.2	3753.2
10°	5596.5	5492.5	5295.6	4872.9	4341.8	4051.9	3850.5	3686.8	3576.1	3430.1	3246.4
12.5°	5386.3	5344.3	5123.0	4467.9	4074.0	3764.2	3622.6	3463.3	3275.2	3040.6	2949.9
15°	5423.9	5282.3	5114.1	4390.5	3846.1	3547.3	3321.6	3122.5	2881.3	2657.7	2527.2
17.5°	5705.0	5596.5	5260.2	4439.2	3759.8	3328.3	2918.9	2624.6	2407.7	2206.3	2115.6
20°	6258.2	6101.1	5722.7	4501.1	3573.9	3022.9	2553.7	2190.8	1958.5	1852.2	1821.3
22.5°	6871.2	6778.2	6174.1	4640.5	3425.6	2739.6	2166.5	1803.5	1717.2	1688.5	1746.0
25°	7617.0	7375.7	6875.6	4868.5	3310.6	2498.4	1839.0	1637.6	1593.3	1622.1	1688.5
27.5°	8183.5	8119.3	7366.9	5083.1	3153.4	2208.5	1655.3	1522.5	1535.8	1564.6	1626.5
30°	8856.2	8530.9	7842.7	5231.4	3011.8	2009.4	1526.9	1491.5	1504.8	1553.5	1584.5
32.5°	9261.2	9139.5	8141.4	5454.9	2848.1	1836.7	1427.3	1394.2	1414.1	1487.1	1560.1
35°	9776.8	9535.6	8511.0	5512.4	2733.0	1768.1	1356.5	1332.2	1378.7	1429.6	1511.4
37.5°	10378.7	10212.7	9022.2	5472.6	2671.0	1697.3	1296.8	1285.7	1318.9	1389.7	1484.9
40°	10735.0	10684.1	9289.9	5497.0	2573.7	1635.4	1228.2	1241.5	1310.1	1365.4	1458.3
42.5°	11078.0	10746.1	9686.1	5488.1	2511.7	1551.3	1234.8	1219.3	1272.4	1336.6	1425.1
45°	11153.2	10823.5	9779.0	5426.1	2436.5	1469.4	1183.9	1190.6	1254.7	1334.4	1391.9
47.5°	11104.5	10861.1	9951.6	5408.4	2365.6	1411.9	1108.7	1188.4	1226.0	1290.1	1372.0
50°	11071.4	11058.1	10097.7	5492.5	2270.5	1321.1	1018.0	1159.6	1197.2	1261.4	1349.9
52.5°	11363.5	11334.7	10462.8	5713.8	2195.2	1223.8	925.0	1086.6	1177.3	1239.2	1325.6
55°	11540.5	11414.4	11089.1	5986.0	2069.1	1095.4	860.8	995.8	1128.6	1183.9	1272.4
57.5°	10380.9	10294.6	10031.3	5587.7	1856.7	927.2	781.2	902.9	1062.2	1148.5	1239.2
60°	8637.1	8502.1	7827.2	4749.0	1369.8	721.4	732.5	829.9	1044.5	1077.7	1183.9
62.5°	8143.6	7809.5	6891.1	3821.8	1051.1	619.6	657.2	763.5	951.6	1006.9	1113.1
65°	6461.8	6213.9	4930.4	2759.5	703.7	537.7	599.7	688.2	821.0	929.4	1026.8
67.5°	4045.3	3808.5	2631.2	1305.6	491.3	460.3	535.5	628.5	736.9	834.3	942.7
70°	2113.4	1854.4	1214.9	471.4	338.6	376.2	447.0	535.5	641.8	721.4	805.5
72.5°	787.8	639.5	396.1	203.6	234.6	287.7	362.9	427.1	502.3	599.7	646.2
75°	121.7	104.0	101.8	123.9	159.3	208.0	258.9	323.1	389.5	451.4	482.4
77.5°	57.5	55.3	62.0	81.9	106.2	148.3	188.1	250.1	303.2	343.0	360.7
80°	37.6	35.4	39.8	55.3	79.7	110.6	150.5	192.5	241.2	274.4	270.0
82.5°	22.1	24.3	24.3	37.6	55.3	79.7	108.4	146.1	179.2	208.0	190.3
85°	13.3	11.1	11.1	22.1	37.6	64.2	90.7	62.0	64.2	64.2	73.0
87.5°	4.4	4.4	4.4	2.2	4.4	4.4	6.6	11.1	13.3	15.5	19.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0
2.5°	5844.4	5913.0	5888.6	5802.3	5868.7	5879.8	5835.5	5988.2	6017.0	5970.5	5983.8
5°	4737.9	4755.6	4795.4	4879.5	4939.3	5010.1	5010.1	5014.5	4954.8	5105.3	5061.0
7.5°	3691.2	3702.3	3748.7	3928.0	3978.9	4113.9	4171.4	4131.6	4012.1	3961.2	4003.2
10°	3186.6	3122.5	3107.0	3129.1	3244.2	3301.7	3350.4	3337.1	3317.2	3277.4	3233.1
12.5°	2850.3	2803.8	2766.2	2713.1	2719.7	2775.0	2812.7	2781.7	2790.5	2799.4	2812.7
15°	2485.1	2451.9	2432.0	2352.4	2343.5	2381.1	2394.4	2412.1	2445.3	2447.5	2432.0
17.5°	2097.9	2069.1	2113.4	2157.6	2126.6	2128.9	2153.2	2168.7	2159.8	2120.0	2100.1
20°	1832.3	1863.3	1907.6	1949.6	1982.8	2002.7	2011.6	1987.2	1958.5	1876.6	1874.4
22.5°	1754.9	1794.7	1832.3	1896.5	1927.5	1978.4	1931.9	1876.6	1836.7	1796.9	1750.4
25°	1697.3	1730.5	1805.8	1830.1	1889.9	1931.9	1898.7	1843.4	1774.8	1717.2	1681.8
27.5°	1655.3	1692.9	1741.6	1808.0	1854.4	1878.8	1845.6	1823.5	1752.7	1684.0	1633.2
30°	1628.7	1668.6	1757.1	1812.4	1852.2	1872.1	1814.6	1788.1	1737.2	1679.6	1635.4
32.5°	1611.0	1646.4	1721.7	1792.5	1819.0	1819.0	1827.9	1796.9	1726.1	1628.7	1591.1
35°	1553.5	1602.2	1664.1	1746.0	1794.7	1823.5	1779.2	1743.8	1697.3	1597.7	1529.1
37.5°	1520.3	1553.5	1633.2	1710.6	1752.7	1783.6	1765.9	1704.0	1642.0	1560.1	1504.8
40°	1484.9	1538.0	1608.8	1681.8	1728.3	1759.3	1746.0	1673.0	1597.7	1520.3	1482.7
42.5°	1460.5	1495.9	1569.0	1650.9	1706.2	1765.9	1726.1	1635.4	1582.3	1476.0	1434.0
45°	1440.6	1498.2	1575.6	1608.8	1666.3	1728.3	1657.5	1602.2	1540.2	1462.8	1427.3
47.5°	1416.3	1469.4	1520.3	1608.8	1635.4	1664.1	1650.9	1562.3	1509.2	1425.1	1400.8
50°	1407.4	1427.3	1520.3	1569.0	1606.6	1635.4	1600.0	1533.6	1482.7	1396.4	1343.3
52.5°	1372.0	1409.6	1469.4	1533.6	1580.0	1615.4	1557.9	1515.9	1447.3	1356.5	1323.3
55°	1327.8	1349.9	1456.1	1522.5	1546.8	1571.2	1549.1	1480.5	1409.6	1316.7	1283.5
57.5°	1270.2	1321.1	1407.4	1500.4	1531.4	1544.6	1509.2	1453.9	1365.4	1283.5	1230.4
60°	1210.5	1263.6	1358.7	1434.0	1465.0	1513.7	1460.5	1427.3	1325.6	1234.8	1177.3
62.5°	1150.7	1210.5	1281.3	1376.5	1403.0	1422.9	1409.6	1363.2	1281.3	1179.5	1108.7
65°	1079.9	1124.2	1212.7	1261.4	1279.1	1325.6	1279.1	1261.4	1188.4	1091.0	1031.2
67.5°	973.7	1011.3	1088.8	1135.2	1148.5	1168.4	1166.2	1146.3	1064.4	998.0	944.9
70°	852.0	885.2	933.9	989.2	995.8	1020.2	998.0	993.6	940.5	849.8	821.0
72.5°	683.8	714.8	779.0	803.3	805.5	814.4	803.3	787.8	774.5	679.4	650.6
75°	524.5	542.2	573.2	595.3	595.3	606.3	599.7	584.2	548.8	489.1	460.3
77.5°	365.1	382.8	422.7	435.9	433.7	438.2	418.2	402.8	349.6	318.7	294.3
80°	265.6	276.6	296.5	305.4	307.6	314.2	289.9	276.6	245.6	210.2	199.2
82.5°	192.5	199.2	201.4	212.4	212.4	201.4	194.7	181.5	159.3	137.2	128.4
85°	79.7	81.9	84.1	97.4	99.6	119.5	110.6	104.0	90.7	77.5	70.8
87.5°	19.9	22.1	28.8	24.3	28.8	28.8	31.0	35.4	35.4	28.8	28.8
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°	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0
2.5°	6034.7	6052.4	6278.1	6306.9	6417.5	6530.4	6758.3	6922.1	7054.9	7141.2	7165.5
5°	5107.5	5220.3	5324.3	5492.5	5645.2	5862.1	6112.1	6422.0	6811.4	7010.6	7090.3
7.5°	3998.8	4131.6	4282.0	4445.8	4669.3	5058.8	5392.9	5751.4	6249.4	6455.2	6767.2
10°	3264.1	3412.4	3611.5	3737.7	4007.6	4379.4	4768.9	5182.7	5658.5	5955.0	6315.7
12.5°	2885.7	3007.4	3191.1	3456.6	3658.0	3899.2	4189.1	4711.4	5392.9	5674.0	5921.8
15°	2467.4	2602.4	2814.9	3109.2	3350.4	3638.1	3963.4	4532.1	5258.0	5691.7	5901.9
17.5°	2122.2	2219.6	2443.1	2697.6	2974.2	3288.4	3755.4	4523.3	5399.6	5955.0	6298.0
20°	1883.2	1896.5	2018.2	2235.1	2611.3	3020.7	3627.0	4479.0	5853.2	6408.7	6842.4
22.5°	1732.7	1719.5	1721.7	1905.3	2168.7	2757.3	3425.6	4629.5	6368.9	7130.1	7422.2
25°	1657.5	1622.1	1600.0	1639.8	1878.8	2445.3	3272.9	4828.6	6924.3	7725.4	8083.9
27.5°	1617.7	1555.7	1511.4	1518.1	1692.9	2288.2	3177.8	4914.9	7475.3	8555.2	8681.4
30°	1602.2	1524.7	1460.5	1438.4	1553.5	2069.1	2974.2	5063.2	7968.8	9011.1	9119.5
32.5°	1546.8	1451.7	1389.7	1369.8	1416.3	1876.6	2828.1	5169.4	8404.8	9506.8	9469.2
35°	1482.7	1403.0	1325.6	1287.9	1321.1	1752.7	2710.9	5118.5	8918.2	9891.9	9871.9
37.5°	1476.0	1372.0	1307.8	1245.9	1243.7	1600.0	2551.5	5167.2	9245.7	10582.3	10310.1
40°	1418.5	1352.1	1268.0	1217.1	1188.4	1522.5	2396.6	5052.1	9725.9	10861.1	10593.4
42.5°	1420.7	1321.1	1248.1	1188.4	1159.6	1409.6	2290.4	5021.2	9894.1	11314.8	10726.1
45°	1385.3	1287.9	1226.0	1155.2	1139.7	1323.3	2188.6	4877.3	10190.6	11336.9	10560.2
47.5°	1349.9	1263.6	1197.2	1113.1	1077.7	1292.4	2108.9	4757.8	10035.7	11128.9	10330.0
50°	1325.6	1226.0	1164.0	1104.3	1004.7	1239.2	2004.9	4729.1	9818.8	10847.8	9902.9
52.5°	1283.5	1195.0	1130.8	1084.3	925.0	1190.6	1965.1	4897.2	10084.4	10637.6	9779.0
55°	1243.7	1152.9	1071.1	980.3	858.6	1062.2	1854.4	5054.4	10471.6	11122.3	10341.1
57.5°	1201.6	1115.3	1026.8	918.4	794.4	929.4	1739.4	5083.1	9745.8	10279.1	9816.6
60°	1146.3	1035.7	969.3	827.6	725.8	770.1	1378.7	4481.2	7559.4	8584.0	8599.5
62.5°	1084.3	964.8	907.3	741.3	655.0	663.9	1124.2	3766.4	6132.1	7105.8	7528.4
65°	1002.5	887.4	818.8	686.0	604.1	575.4	823.2	2759.5	4658.2	5764.7	6244.9
67.5°	896.2	787.8	701.5	597.5	540.0	493.5	562.1	1553.5	2750.7	3870.4	4016.5
70°	783.4	690.4	599.7	513.4	449.2	416.0	411.6	688.2	1314.5	2082.4	2370.1
72.5°	617.4	551.0	478.0	413.8	371.8	323.1	294.3	285.5	444.8	847.6	1170.6
75°	442.6	387.3	345.2	303.2	272.2	245.6	223.5	203.6	185.9	212.4	292.1
77.5°	278.8	258.9	225.7	214.7	197.0	190.3	181.5	170.4	157.1	148.3	148.3
80°	188.1	174.8	163.8	161.5	154.9	152.7	154.9	143.8	130.6	119.5	123.9
82.5°	126.1	123.9	121.7	119.5	121.7	123.9	128.4	126.1	115.1	108.4	110.6
85°	75.2	79.7	84.1	88.5	97.4	86.3	70.8	59.7	53.1	48.7	46.5
87.5°	28.8	39.8	35.4	33.2	35.4	33.2	31.0	28.8	24.3	22.1	22.1
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: P529122

CATALOG NUMBER: GALN-SA4B-730-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0	6776.0
2.5°	7327.1	7371.3	7408.9	7400.1	7322.6	7218.6	7176.6	6961.9	6917.7	6888.9
5°	7426.6	7683.3	7738.7	7705.5	7504.1	7249.6	7001.8	6687.5	6503.8	6497.2
7.5°	7243.0	7559.4	7659.0	7734.2	7466.5	7023.9	6599.0	6127.6	6012.6	6021.4
10°	6776.0	7280.6	7526.2	7603.7	7296.1	6913.2	6324.6	5846.6	5601.0	5596.5
12.5°	6517.1	6913.2	6981.8	7090.3	6999.5	6612.3	6165.3	5629.7	5390.7	5386.3
15°	6287.0	6548.1	6568.0	6720.7	6769.4	6508.3	6207.3	5636.4	5443.8	5423.9
17.5°	6488.3	6306.9	6231.6	6251.6	6395.4	6490.6	6450.7	6012.6	5815.6	5705.0
20°	6623.3	6218.4	5990.4	6012.6	6183.0	6530.4	6813.7	6557.0	6244.9	6258.2
22.5°	6984.0	6231.6	5875.4	5851.0	6121.0	6738.4	7223.0	7245.2	6944.2	6871.2
25°	7524.0	6384.3	5840.0	5833.3	6092.2	6961.9	7701.0	8059.5	7751.9	7617.0
27.5°	7957.7	6623.3	5950.6	5972.7	6183.0	7143.4	8108.2	8584.0	8349.4	8183.5
30°	8338.4	6871.2	6105.5	6003.7	6426.4	7238.5	8283.0	9181.5	8993.4	8856.2
32.5°	8495.5	7223.0	6351.1	6183.0	6627.8	7353.6	8646.0	9761.3	9599.7	9261.2
35°	8761.0	7420.0	6483.9	6470.6	6979.6	7630.2	8816.4	10144.1	10077.7	9776.8
37.5°	8973.5	7619.2	6955.3	6809.2	7462.0	8094.9	9090.8	10673.0	10520.3	10378.7
40°	9137.2	7975.4	7395.7	7588.2	8055.1	8517.6	9343.0	10706.2	11146.6	10735.0
42.5°	8986.8	8294.1	8119.3	8579.6	9022.2	9000.0	9371.8	10962.9	11292.6	11078.0
45°	8949.1	8834.1	9263.4	9681.6	9783.4	9400.6	9166.0	10679.7	11248.4	11153.2
47.5°	8858.4	9365.2	10113.2	10794.7	10639.8	9668.3	8920.4	10628.8	11274.9	11104.5
50°	8827.4	9480.2	10741.6	11405.5	11312.6	9900.7	8805.3	10301.3	11086.8	11071.4
52.5°	8825.2	9717.0	11002.8	11737.5	11795.0	10268.1	8962.4	10467.2	11232.9	11363.5
55°	8924.8	9641.8	10969.6	11553.8	11531.6	10104.3	8980.1	10577.9	11412.1	11540.5
57.5°	8418.0	8637.1	9053.2	9515.7	9396.2	8369.4	8019.7	9779.0	10473.9	10380.9
60°	7269.5	6583.5	6114.4	6092.2	5859.9	5539.0	6563.6	8727.8	8727.8	8637.1
62.5°	6366.6	4321.9	3713.3	3540.7	3706.7	4076.2	6331.2	8488.9	8247.6	8143.6
65°	5567.8	3299.5	2684.3	2635.6	2923.3	3481.0	5724.9	7231.9	6807.0	6461.8
67.5°	3582.8	2416.5	1996.1	1909.8	2257.2	2555.9	3810.7	4448.0	4180.2	4045.3
70°	2310.3	1573.4	1110.9	1042.3	1177.3	1575.6	2434.2	2593.6	2204.1	2113.4
72.5°	1093.2	679.4	389.5	320.9	360.7	601.9	962.6	1035.7	860.8	787.8
75°	347.4	250.1	159.3	137.2	130.6	154.9	221.3	170.4	123.9	121.7
77.5°	154.9	148.3	126.1	106.2	92.9	77.5	64.2	53.1	55.3	57.5
80°	128.4	117.3	104.0	92.9	77.5	59.7	46.5	35.4	35.4	37.6
82.5°	112.9	101.8	90.7	77.5	66.4	48.7	35.4	24.3	22.1	22.1
85°	48.7	57.5	62.0	66.4	53.1	39.8	24.3	15.5	13.3	13.3
87.5°	19.9	17.7	15.5	13.3	11.1	11.1	8.9	6.6	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)