

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: P529564

Luminaire Tested: **GALN-SA4D-727-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529564
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-SA4D-727-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 19061 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

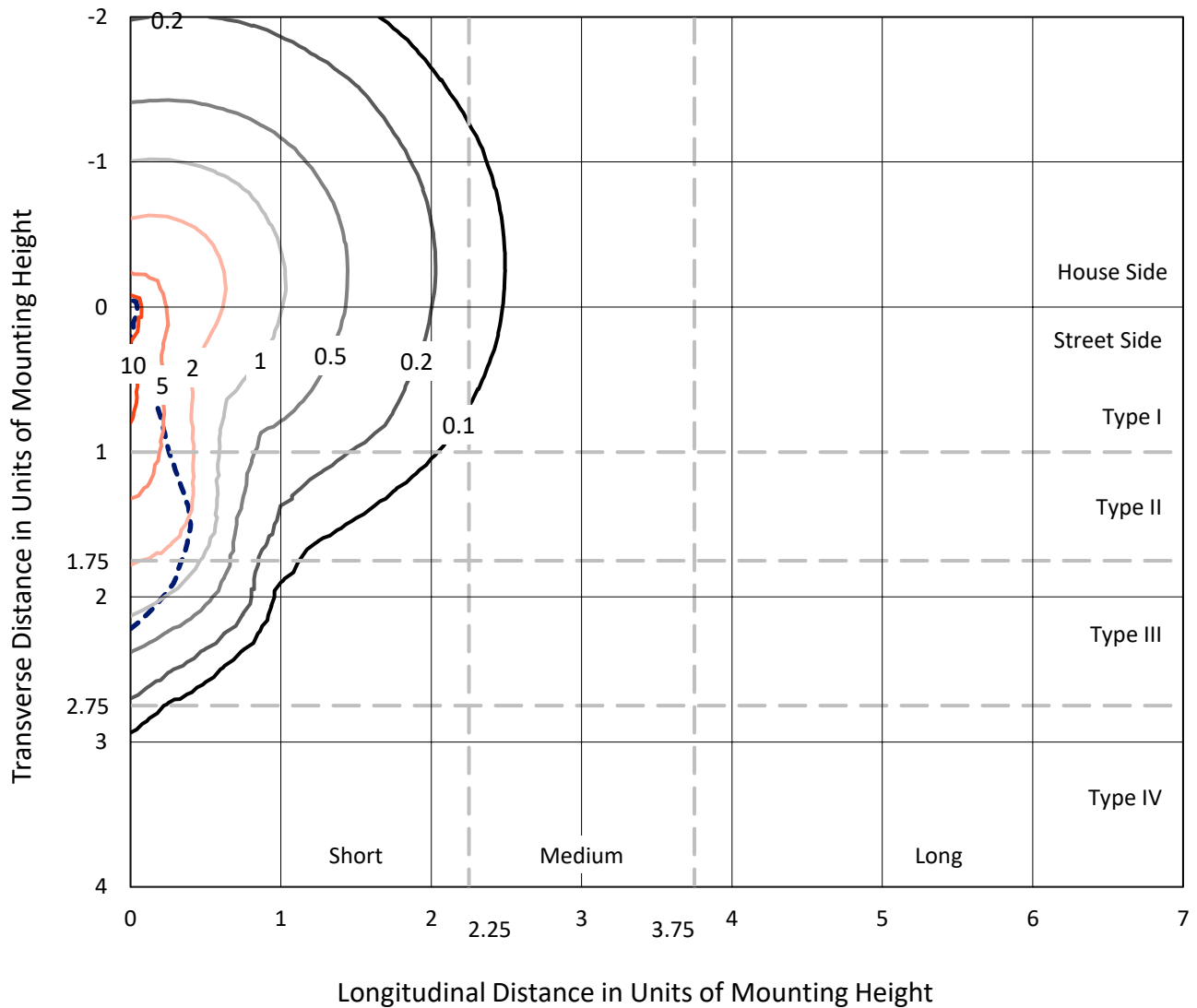
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

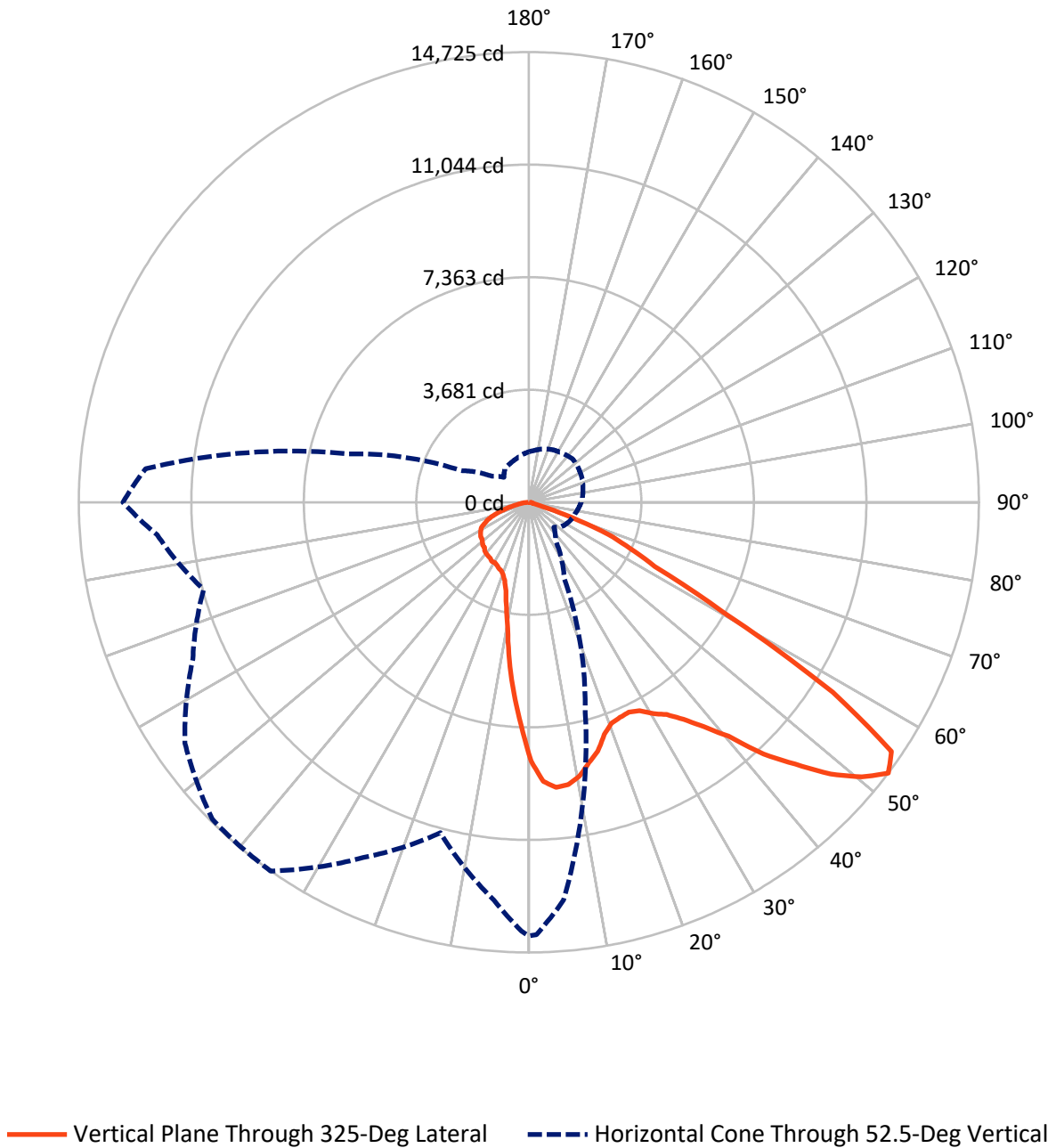
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot





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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5746.1	0.0	5746.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	13314.9	0.0	13314.9
	% Fixture	69.9	0.0	69.9
Total	Lumens	19061.0	0.0	19061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.4	3.4
10°-20°	1399.1	7.3
20°-30°	2113.9	11.1
30°-40°	3054.7	16.0
40°-50°	4065.2	21.3
50°-60°	4547.1	23.9
60°-70°	2562.7	13.4
70°-80°	571.3	3.0
80°-90°	101.7	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°	19061.0	100.0
0°-180°	19061.0	100.0

Coefficient of Utilization



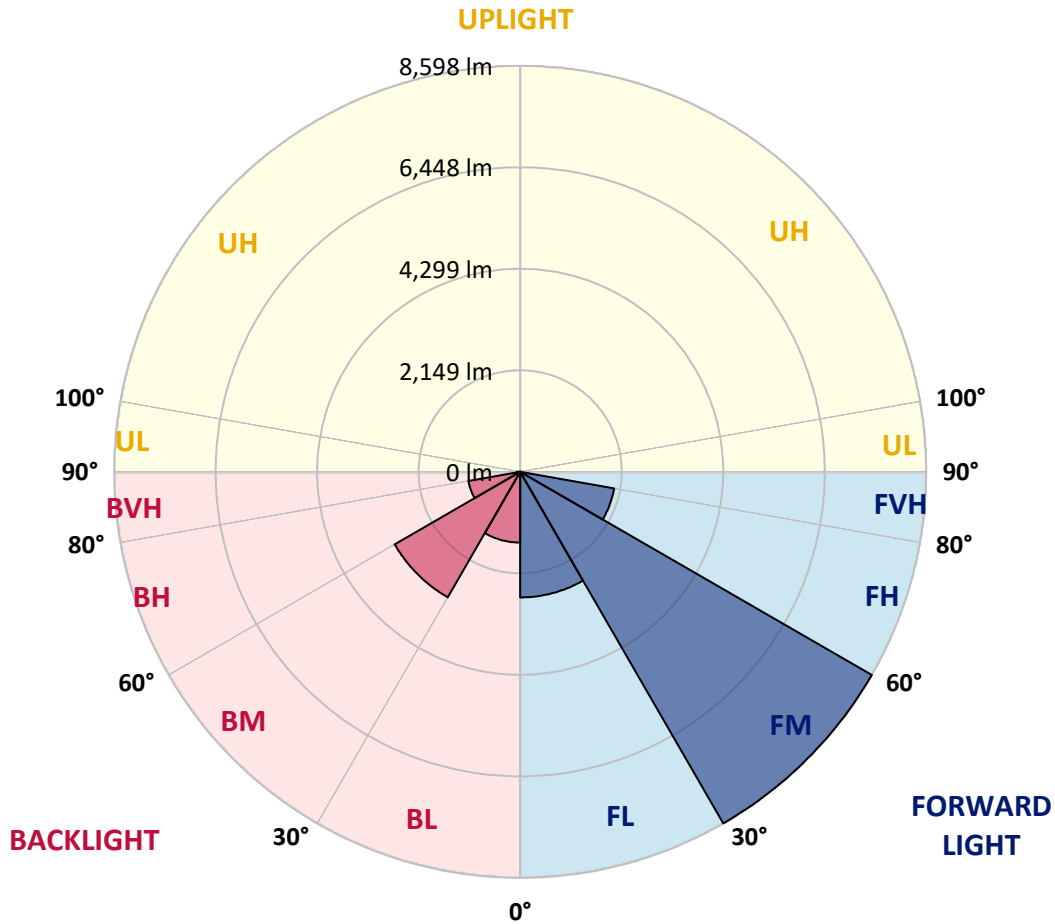
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2659.9	14.0			
FM (30°-60°)	8598.0	45.1			
FH (60°-80°)	2020.2	10.6			G2/5000
FVH (80°-90°)	36.8	0.2			G1/100
BL (0°-30°)	1498.4	7.9	B3/2500		
BM (30°-60°)	3069.0	16.1	B3/5000		
BH (60°-80°)	1113.8	5.8	B3/2500		G3/2500
BVH (80°-90°)	64.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4
2.5°	8600.3	8738.4	8589.2	8324.0	8136.2	7964.9	7785.3	7749.4	7514.5	7473.1	7301.8
5°	8111.3	8080.9	7898.6	7550.5	7166.4	6818.3	6561.4	6312.8	6144.2	5948.1	5934.3
7.5°	7517.3	7340.5	7235.5	6707.8	6232.7	5685.6	5450.8	5072.3	4953.5	4776.7	4685.5
10°	6986.9	6857.0	6611.1	6083.5	5420.4	5058.5	4807.1	4602.7	4464.5	4282.2	4052.9
12.5°	6724.4	6671.9	6395.7	5577.9	5086.1	4699.4	4522.5	4323.6	4088.8	3796.0	3682.7
15°	6771.4	6594.6	6384.6	5481.2	4801.6	4428.6	4146.8	3898.2	3597.0	3318.0	3155.0
17.5°	7122.2	6986.9	6566.9	5542.0	4693.8	4155.1	3644.0	3276.6	3005.8	2754.4	2641.1
20°	7812.9	7616.8	7144.3	5619.3	4461.8	3773.8	3188.2	2735.1	2445.0	2312.4	2273.7
22.5°	8578.2	8462.2	7707.9	5793.4	4276.7	3420.2	2704.7	2251.6	2143.9	2107.9	2179.8
25°	9509.2	9208.1	8583.7	6077.9	4133.0	3119.1	2295.8	2044.4	1989.1	2025.1	2107.9
27.5°	10216.5	10136.3	9197.0	6345.9	3936.8	2757.2	2066.5	1900.7	1917.3	1953.2	2030.6
30°	11056.3	10650.2	9791.0	6531.0	3760.0	2508.5	1906.3	1862.1	1878.6	1939.4	1978.1
32.5°	11561.9	11410.0	10164.0	6810.1	3555.6	2293.0	1781.9	1740.5	1765.4	1856.5	1947.7
35°	12205.6	11904.5	10625.3	6881.9	3411.9	2207.4	1693.5	1663.1	1721.2	1784.7	1886.9
37.5°	12957.1	12749.9	11263.5	6832.2	3334.6	2119.0	1618.9	1605.1	1646.6	1735.0	1853.8
40°	13401.9	13338.3	11597.8	6862.5	3213.0	2041.6	1533.3	1549.9	1635.5	1704.6	1820.6
42.5°	13830.1	13415.7	12092.3	6851.5	3135.7	1936.7	1541.6	1522.2	1588.6	1668.7	1779.2
45°	13924.0	13512.4	12208.4	6774.1	3041.7	1834.4	1478.0	1486.3	1566.5	1665.9	1737.7
47.5°	13863.2	13559.3	12423.9	6752.0	2953.3	1762.6	1384.1	1483.6	1530.5	1610.7	1712.9
50°	13821.8	13805.2	12606.2	6857.0	2834.5	1649.3	1270.8	1447.7	1494.6	1574.7	1685.2
52.5°	14186.5	14150.6	13062.0	7133.3	2740.6	1527.8	1154.8	1356.5	1469.8	1547.1	1654.9
55°	14407.5	14250.0	13843.9	7473.1	2583.1	1367.5	1074.7	1243.2	1409.0	1478.0	1588.6
57.5°	12959.8	12852.1	12523.3	6975.8	2317.9	1157.6	975.2	1127.2	1326.1	1433.8	1547.1
60°	10782.8	10614.3	9771.7	5928.8	1710.1	900.6	914.5	1036.0	1304.0	1345.4	1478.0
62.5°	10166.7	9749.6	8603.0	4771.2	1312.3	773.6	820.5	953.1	1188.0	1257.0	1389.6
65°	8067.1	7757.7	6155.3	3445.1	878.5	671.3	748.7	859.2	1025.0	1160.3	1281.9
67.5°	5050.2	4754.6	3284.9	1630.0	613.3	574.6	668.6	784.6	920.0	1041.5	1176.9
70°	2638.4	2315.1	1516.7	588.5	422.7	469.7	558.1	668.6	801.2	900.6	1005.6
72.5°	983.5	798.4	494.5	254.2	292.8	359.2	453.1	533.2	627.1	748.7	806.7
75°	151.9	129.8	127.1	154.7	198.9	259.7	323.2	403.4	486.2	563.6	602.3
77.5°	71.8	69.1	77.4	102.2	132.6	185.1	234.8	312.2	378.5	428.2	450.3
80°	47.0	44.2	49.7	69.1	99.5	138.1	187.9	240.4	301.1	342.6	337.0
82.5°	27.6	30.4	30.4	47.0	69.1	99.5	135.4	182.3	223.8	259.7	237.6
85°	16.6	13.8	13.8	27.6	47.0	80.1	113.3	77.4	80.1	80.1	91.2
87.5°	5.5	5.5	5.5	2.8	5.5	5.5	8.3	13.8	16.6	19.3	24.9
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°	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4
2.5°	7296.3	7381.9	7351.5	7243.8	7326.7	7340.5	7285.2	7475.9	7511.8	7453.8	7470.3
5°	5914.9	5937.0	5986.8	6091.8	6166.3	6254.8	6254.8	6260.3	6185.7	6373.6	6318.3
7.5°	4608.2	4622.0	4680.0	4903.8	4967.3	5135.9	5207.7	5158.0	5008.8	4945.2	4997.7
10°	3978.3	3898.2	3878.8	3906.5	4050.1	4121.9	4182.7	4166.2	4141.3	4091.6	4036.3
12.5°	3558.4	3500.3	3453.4	3387.1	3395.4	3464.4	3511.4	3472.7	3483.8	3494.8	3511.4
15°	3102.5	3061.1	3036.2	2936.8	2925.7	2972.7	2989.2	3011.3	3052.8	3055.5	3036.2
17.5°	2619.0	2583.1	2638.4	2693.6	2655.0	2657.7	2688.1	2707.4	2696.4	2646.7	2621.8
20°	2287.5	2326.2	2381.4	2433.9	2475.4	2500.2	2511.3	2480.9	2445.0	2342.8	2340.0
22.5°	2190.8	2240.6	2287.5	2367.6	2406.3	2469.9	2411.8	2342.8	2293.0	2243.3	2185.3
25°	2119.0	2160.4	2254.4	2284.8	2359.3	2411.8	2370.4	2301.3	2215.7	2143.9	2099.7
27.5°	2066.5	2113.5	2174.2	2257.1	2315.1	2345.5	2304.1	2276.5	2188.1	2102.4	2038.9
30°	2033.3	2083.1	2193.6	2262.7	2312.4	2337.2	2265.4	2232.3	2168.7	2096.9	2041.6
32.5°	2011.2	2055.4	2149.4	2237.8	2270.9	2270.9	2282.0	2243.3	2154.9	2033.3	1986.4
35°	1939.4	2000.2	2077.6	2179.8	2240.6	2276.5	2221.2	2177.0	2119.0	1994.7	1909.0
37.5°	1898.0	1939.4	2038.9	2135.6	2188.1	2226.7	2204.6	2127.3	2049.9	1947.7	1878.6
40°	1853.8	1920.1	2008.5	2099.7	2157.7	2196.3	2179.8	2088.6	1994.7	1898.0	1851.0
42.5°	1823.4	1867.6	1958.8	2061.0	2130.0	2204.6	2154.9	2041.6	1975.3	1842.7	1790.2
45°	1798.5	1870.3	1967.0	2008.5	2080.3	2157.7	2069.3	2000.2	1922.8	1826.1	1781.9
47.5°	1768.1	1834.4	1898.0	2008.5	2041.6	2077.6	2061.0	1950.5	1884.2	1779.2	1748.8
50°	1757.1	1781.9	1898.0	1958.8	2005.7	2041.6	1997.4	1914.6	1851.0	1743.3	1677.0
52.5°	1712.9	1759.8	1834.4	1914.6	1972.6	2016.8	1944.9	1892.4	1806.8	1693.5	1652.1
55°	1657.6	1685.2	1817.9	1900.7	1931.1	1961.5	1933.9	1848.2	1759.8	1643.8	1602.4
57.5°	1585.8	1649.3	1757.1	1873.1	1911.8	1928.4	1884.2	1815.1	1704.6	1602.4	1536.1
60°	1511.2	1577.5	1696.3	1790.2	1828.9	1889.7	1823.4	1781.9	1654.9	1541.6	1469.8
62.5°	1436.6	1511.2	1599.6	1718.4	1751.6	1776.4	1759.8	1701.8	1599.6	1472.5	1384.1
65°	1348.2	1403.5	1514.0	1574.7	1596.8	1654.9	1596.8	1574.7	1483.6	1362.0	1287.4
67.5°	1215.6	1262.6	1359.2	1417.3	1433.8	1458.7	1455.9	1431.1	1328.9	1246.0	1179.7
70°	1063.6	1105.1	1165.9	1234.9	1243.2	1273.6	1246.0	1240.5	1174.1	1060.9	1025.0
72.5°	853.7	892.4	972.5	1002.9	1005.6	1016.7	1002.9	983.5	966.9	848.1	812.2
75°	654.8	676.9	715.5	743.2	743.2	757.0	748.7	729.4	685.1	610.6	574.6
77.5°	455.8	477.9	527.7	544.3	541.5	547.0	522.2	502.8	436.5	397.8	367.4
80°	331.5	345.3	370.2	381.3	384.0	392.3	361.9	345.3	306.7	262.5	248.6
82.5°	240.4	248.6	251.4	265.2	265.2	251.4	243.1	226.5	198.9	171.3	160.2
85°	99.5	102.2	105.0	121.6	124.3	149.2	138.1	129.8	113.3	96.7	88.4
87.5°	24.9	27.6	35.9	30.4	35.9	35.9	38.7	44.2	44.2	35.9	35.9
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°	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4
2.5°	7533.9	7556.0	7837.8	7873.7	8011.8	8152.7	8437.3	8641.7	8807.5	8915.2	8945.6
5°	6376.3	6517.2	6647.1	6857.0	7047.6	7318.4	7630.6	8017.4	8503.6	8752.2	8851.7
7.5°	4992.2	5158.0	5345.8	5550.3	5829.3	6315.5	6732.7	7180.3	7801.9	8058.8	8448.3
10°	4075.0	4260.1	4508.7	4666.2	5003.3	5467.4	5953.6	6470.2	7064.2	7434.4	7884.7
12.5°	3602.6	3754.5	3983.8	4315.3	4566.7	4867.9	5229.8	5881.8	6732.7	7083.6	7393.0
15°	3080.4	3248.9	3514.2	3881.6	4182.7	4541.9	4948.0	5658.0	6564.2	7105.7	7368.1
17.5°	2649.4	2771.0	3050.0	3367.7	3713.1	4105.4	4688.3	5647.0	6741.0	7434.4	7862.6
20°	2351.1	2367.6	2519.6	2790.3	3260.0	3771.1	4528.1	5591.7	7307.3	8000.8	8542.3
22.5°	2163.2	2146.6	2149.4	2378.7	2707.4	3442.3	4276.7	5779.6	7951.1	8901.4	9266.1
25°	2069.3	2025.1	1997.4	2047.2	2345.5	3052.8	4086.0	6028.2	8644.5	9644.6	10092.1
27.5°	2019.5	1942.2	1886.9	1895.2	2113.5	2856.6	3967.2	6136.0	9332.4	10680.6	10838.1
30°	2000.2	1903.5	1823.4	1795.8	1939.4	2583.1	3713.1	6321.1	9948.5	11249.7	11385.1
32.5°	1931.1	1812.3	1735.0	1710.1	1768.1	2342.8	3530.7	6453.7	10492.7	11868.6	11821.6
35°	1851.0	1751.6	1654.9	1607.9	1649.3	2188.1	3384.3	6390.1	11133.7	12349.3	12324.4
37.5°	1842.7	1712.9	1632.8	1555.4	1552.6	1997.4	3185.4	6450.9	11542.6	13211.2	12871.4
40°	1770.9	1688.0	1583.0	1519.5	1483.6	1900.7	2992.0	6307.2	12142.1	13559.3	13225.0
42.5°	1773.7	1649.3	1558.2	1483.6	1447.7	1759.8	2859.4	6268.6	12352.0	14125.7	13390.8
45°	1729.5	1607.9	1530.5	1442.1	1422.8	1652.1	2732.3	6089.0	12722.2	14153.3	13183.6
47.5°	1685.2	1577.5	1494.6	1389.6	1345.4	1613.4	2632.9	5939.8	12528.8	13893.6	12896.3
50°	1654.9	1530.5	1453.2	1378.6	1254.3	1547.1	2503.0	5903.9	12258.1	13542.8	12363.1
52.5°	1602.4	1491.9	1411.7	1353.7	1154.8	1486.3	2453.3	6113.9	12589.6	13280.3	12208.4
55°	1552.6	1439.4	1337.1	1223.9	1071.9	1326.1	2315.1	6310.0	13073.1	13885.3	12910.1
57.5°	1500.1	1392.4	1281.9	1146.5	991.8	1160.3	2171.5	6345.9	12166.9	12832.7	12255.3
60°	1431.1	1292.9	1210.1	1033.2	906.2	961.4	1721.2	5594.5	9437.4	10716.5	10735.9
62.5°	1353.7	1204.5	1132.7	925.5	817.8	828.8	1403.5	4702.1	7655.4	8871.0	9398.7
65°	1251.5	1107.8	1022.2	856.4	754.2	718.3	1027.7	3445.1	5815.5	7196.8	7796.3
67.5°	1118.9	983.5	875.8	745.9	674.1	616.1	701.7	1939.4	3434.0	4832.0	5014.3
70°	978.0	862.0	748.7	640.9	560.8	519.4	513.9	859.2	1641.0	2599.7	2958.9
72.5°	770.8	687.9	596.7	516.6	464.1	403.4	367.4	356.4	555.3	1058.1	1461.5
75°	552.5	483.5	431.0	378.5	339.8	306.7	279.0	254.2	232.1	265.2	364.7
77.5°	348.1	323.2	281.8	268.0	245.9	237.6	226.5	212.7	196.2	185.1	185.1
80°	234.8	218.3	204.4	201.7	193.4	190.6	193.4	179.6	163.0	149.2	154.7
82.5°	157.5	154.7	151.9	149.2	151.9	154.7	160.2	157.5	143.7	135.4	138.1
85°	93.9	99.5	105.0	110.5	121.6	107.7	88.4	74.6	66.3	60.8	58.0
87.5°	35.9	49.7	44.2	41.4	44.2	41.4	38.7	35.9	30.4	27.6	27.6
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: P529564

CATALOG NUMBER: GALN-SA4D-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4	8459.4
2.5°	9147.3	9202.6	9249.5	9238.5	9141.8	9011.9	8959.4	8691.5	8636.2	8600.3
5°	9271.6	9592.1	9661.2	9619.7	9368.3	9050.6	8741.2	8348.9	8119.6	8111.3
7.5°	9042.3	9437.4	9561.7	9655.6	9321.4	8768.8	8238.4	7649.9	7506.3	7517.3
10°	8459.4	9089.3	9395.9	9492.6	9108.6	8630.7	7895.8	7299.1	6992.4	6986.9
12.5°	8136.2	8630.7	8716.3	8851.7	8738.4	8254.9	7696.9	7028.3	6729.9	6724.4
15°	7848.8	8174.8	8199.7	8390.3	8451.1	8125.1	7749.4	7036.6	6796.2	6771.4
17.5°	8100.2	7873.7	7779.8	7804.6	7984.2	8103.0	8053.3	7506.3	7260.4	7122.2
20°	8268.8	7763.2	7478.6	7506.3	7719.0	8152.7	8506.4	8185.9	7796.3	7812.9
22.5°	8719.1	7779.8	7335.0	7304.6	7641.6	8412.4	9017.5	9045.1	8669.4	8578.2
25°	9393.2	7970.4	7290.8	7282.5	7605.7	8691.5	9614.2	10061.8	9677.7	9509.2
27.5°	9934.7	8268.8	7428.9	7456.5	7719.0	8918.0	10122.5	10716.5	10423.7	10216.5
30°	10409.9	8578.2	7622.3	7495.2	8022.9	9036.8	10340.8	11462.4	11227.6	11056.3
32.5°	10606.0	9017.5	7929.0	7719.0	8274.3	9180.5	10793.9	12186.3	11984.6	11561.9
35°	10937.5	9263.3	8094.7	8078.1	8713.6	9525.8	11006.6	12664.2	12581.3	12205.6
37.5°	11202.8	9512.0	8683.2	8500.8	9315.8	10106.0	11349.2	13324.5	13133.9	12957.1
40°	11407.2	9956.8	9232.9	9473.3	10056.2	10633.6	11664.1	13365.9	13915.7	13401.9
42.5°	11219.3	10354.6	10136.3	10711.0	11263.5	11235.9	11700.0	13686.4	14098.1	13830.1
45°	11172.4	11028.7	11564.7	12086.8	12213.9	11736.0	11443.1	13332.8	14042.8	13924.0
47.5°	11059.1	11691.7	12625.5	13476.5	13283.1	12070.2	11136.4	13269.3	14076.0	13863.2
50°	11020.4	11835.4	13410.1	14239.0	14122.9	12360.3	10992.8	12860.4	13841.1	13821.8
52.5°	11017.6	12131.0	13736.1	14653.4	14725.2	12818.9	11188.9	13067.6	14023.5	14186.5
55°	11142.0	12037.1	13694.7	14424.1	14396.4	12614.5	11211.0	13205.7	14247.2	14407.5
57.5°	10509.3	10782.8	11302.2	11879.6	11730.4	10448.5	10012.0	12208.4	13075.9	12959.8
60°	9075.5	8219.0	7633.3	7605.7	7315.6	6915.0	8194.2	10896.1	10896.1	10782.8
62.5°	7948.3	5395.6	4635.8	4420.3	4627.5	5088.9	7904.1	10597.7	10296.6	10166.7
65°	6951.0	4119.2	3351.2	3290.4	3649.5	4345.7	7147.1	9028.5	8498.1	8067.1
67.5°	4472.8	3016.9	2492.0	2384.2	2818.0	3190.9	4757.4	5553.0	5218.7	5050.2
70°	2884.3	1964.3	1386.9	1301.2	1469.8	1967.0	3039.0	3237.9	2751.6	2638.4
72.5°	1364.8	848.1	486.2	400.6	450.3	751.5	1201.8	1292.9	1074.7	983.5
75°	433.7	312.2	198.9	171.3	163.0	193.4	276.3	212.7	154.7	151.9
77.5°	193.4	185.1	157.5	132.6	116.0	96.7	80.1	66.3	69.1	71.8
80°	160.2	146.4	129.8	116.0	96.7	74.6	58.0	44.2	44.2	47.0
82.5°	140.9	127.1	113.3	96.7	82.9	60.8	44.2	30.4	27.6	27.6
85°	60.8	71.8	77.4	82.9	66.3	49.7	30.4	19.3	16.6	16.6
87.5°	24.9	22.1	19.3	16.6	13.8	13.8	11.1	8.3	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)