

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: P529536

Luminaire Tested: **GALN-SA4D-722-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529536  
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-SA4D-722-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH 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: 16755 lumens  
Efficiency: N/A  
Efficacy: 68.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

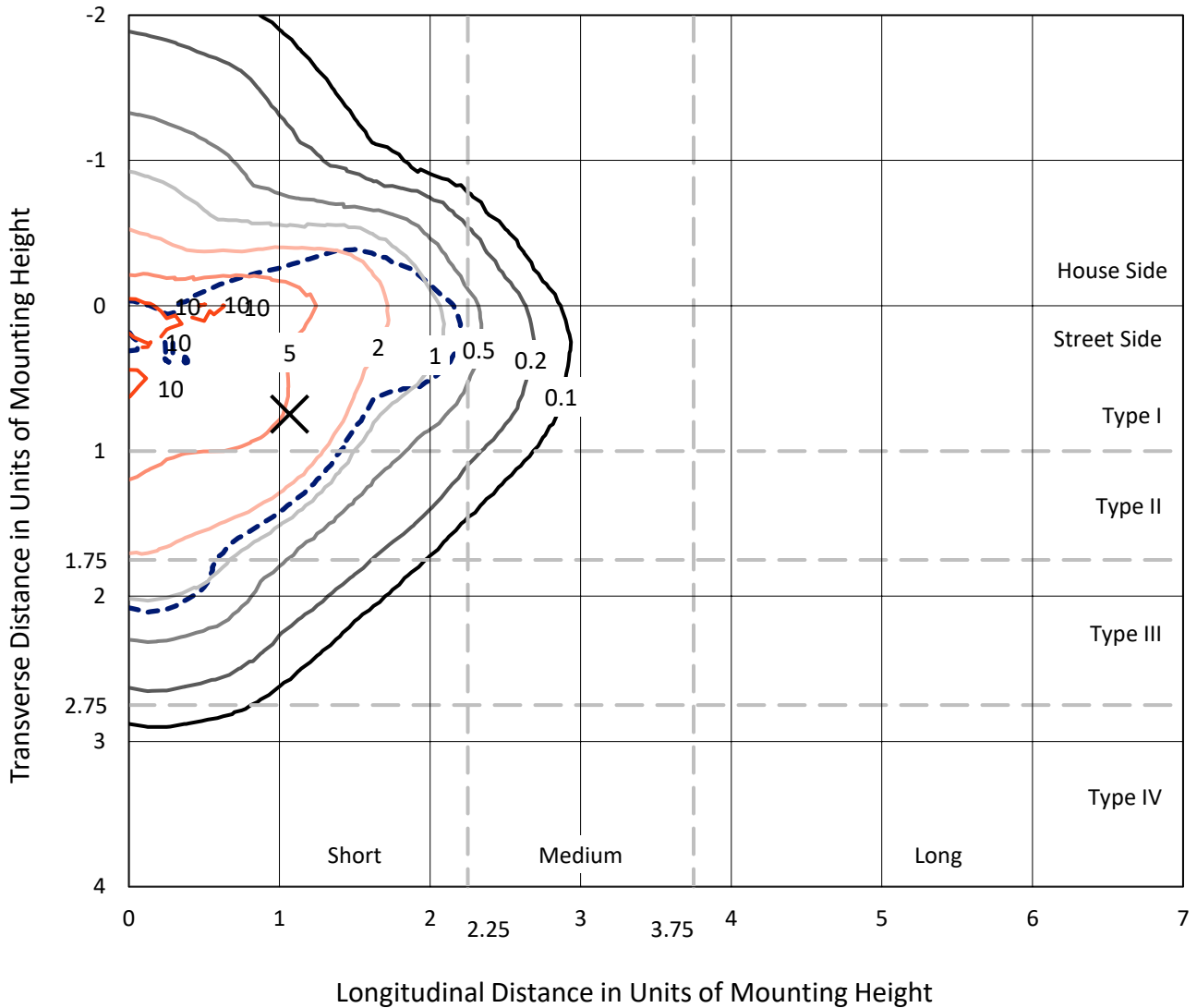
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

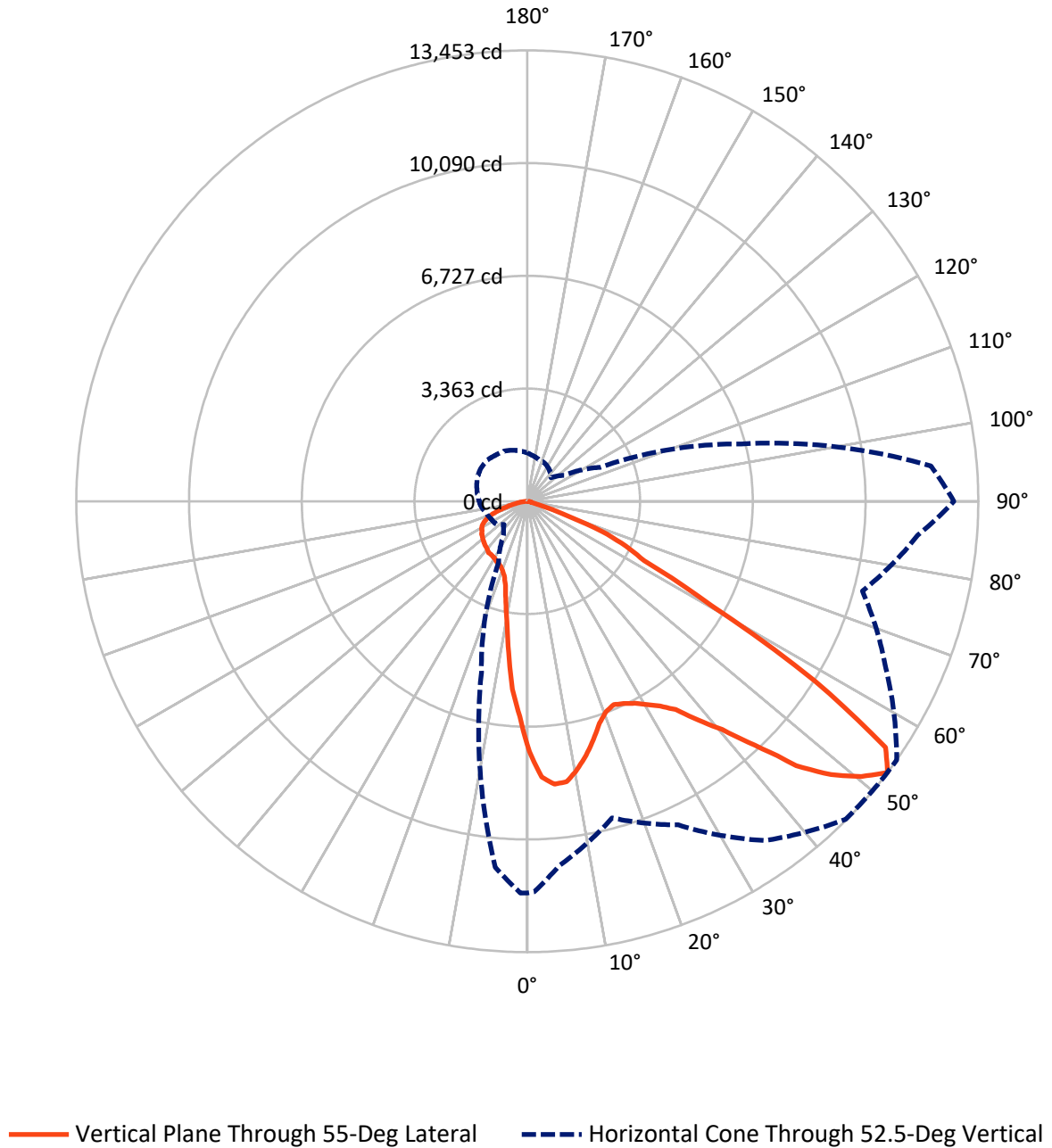
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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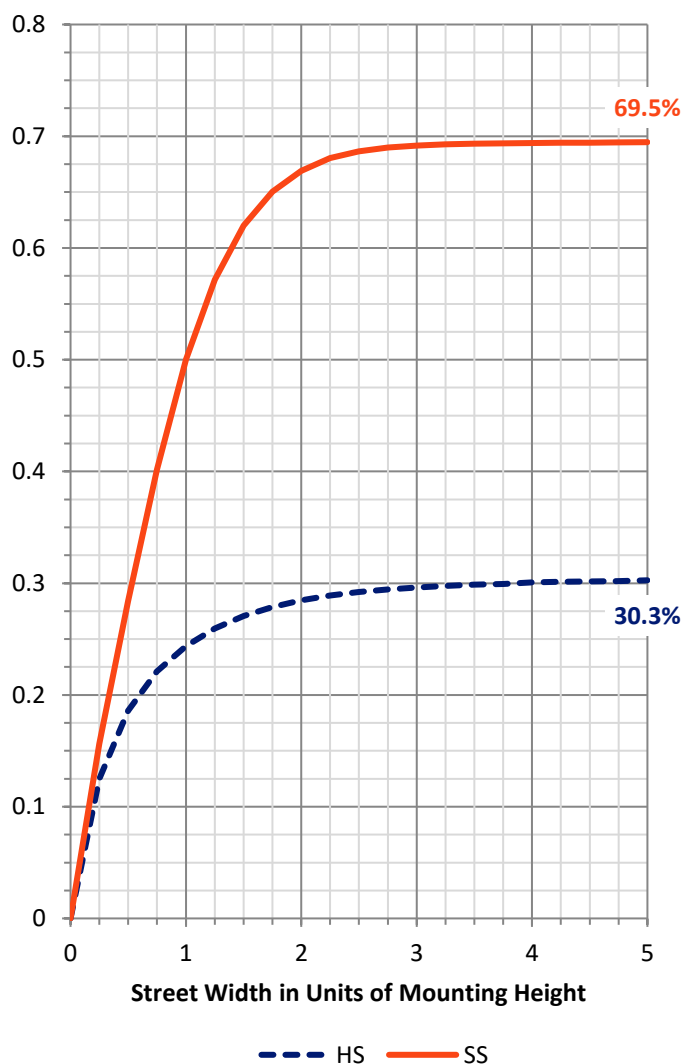
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5111.2	0.0	5111.2
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	11643.8	0.0	11643.8
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	16755.0	0.0	16755.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	571.0	3.4
10°-20°	1231.2	7.3
20°-30°	1866.8	11.1
30°-40°	2697.3	16.1
40°-50°	3604.3	21.5
50°-60°	4023.2	24.0
60°-70°	2206.9	13.2
70°-80°	477.1	2.8
80°-90°	77.2	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°	16755.0	100.0
0°-180°	16755.0	100.0

**Coefficient of Utilization**

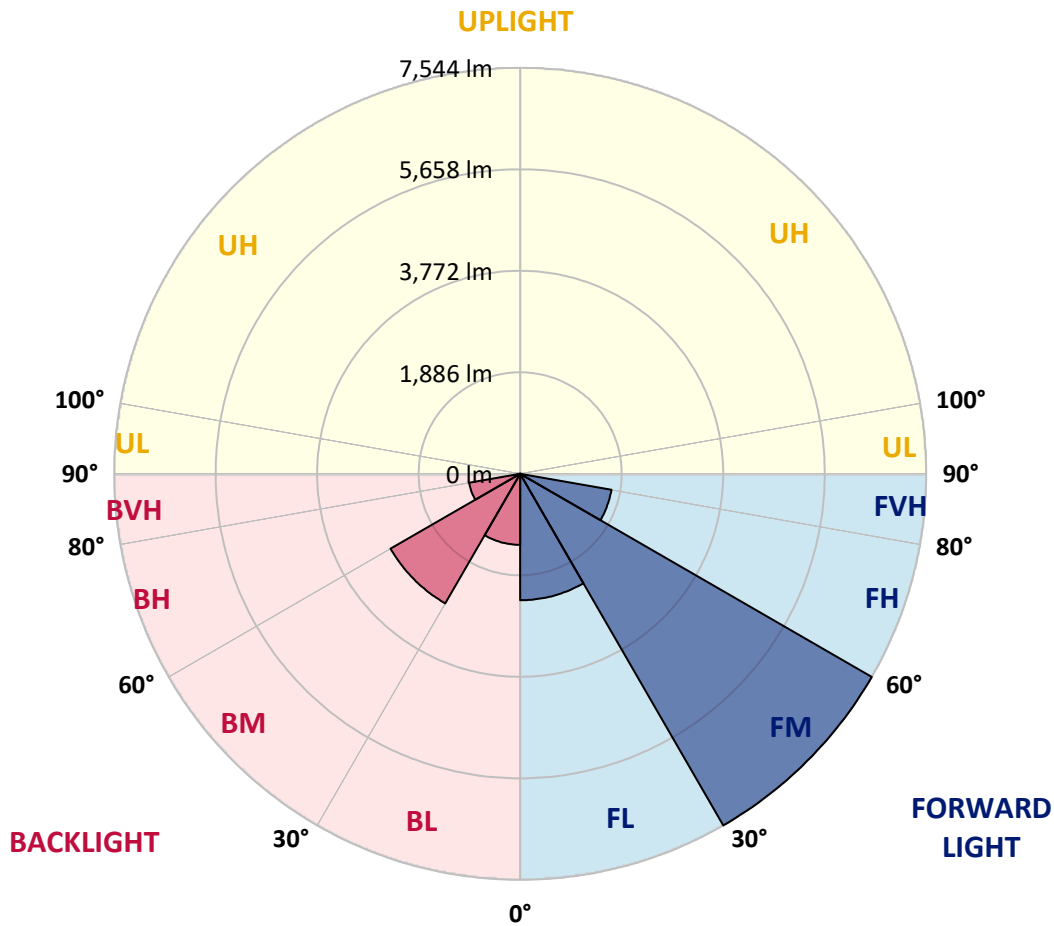


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2349.4	14.0			
FM (30°-60°)	7543.9	45.0			
FH (60°-80°)	1722.0	10.3			G1/1800
FVH (80°-90°)	28.6	0.2			G1/100
BL (0°-30°)	1319.6	7.9	B3/2500		
BM (30°-60°)	2780.9	16.6	B3/5000		
BH (60°-80°)	962.0	5.7	B2/1000		G2/1000
BVH (80°-90°)	48.6	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0
2.5°	7843.4	7799.4	7838.6	8024.5	8132.1	8205.5	8252.0	8244.7	8068.5	7897.3	7897.3
5°	7613.5	7557.2	7637.9	8058.7	8482.0	8518.7	8579.8	8479.5	8220.2	7907.1	7515.6
7.5°	6948.0	6989.6	7124.2	7677.1	8227.5	8504.0	8577.4	8450.2	8029.4	7444.7	6869.7
10°	6373.1	6471.0	6781.7	7378.6	7885.0	8244.7	8325.4	8146.8	7814.1	7097.3	6583.5
12.5°	6174.9	6113.8	6458.7	7055.7	7540.1	7733.4	7770.1	7782.3	7557.2	6921.1	6294.8
15°	6150.5	6189.6	6458.7	6911.3	7209.8	7219.6	7280.8	7376.2	7405.5	7041.0	6429.4
17.5°	6502.8	6456.3	6732.7	7092.4	6950.5	6808.6	6823.3	6960.3	7202.5	7143.7	6852.6
20°	7023.9	7129.1	7346.8	7310.1	6928.5	6568.8	6571.3	6700.9	7178.0	7569.4	7442.2
22.5°	7889.9	7992.7	8154.2	7711.3	6928.5	6497.9	6414.7	6590.8	7334.6	8075.9	8107.7
25°	8680.1	8868.5	8912.6	8391.5	7275.9	6563.9	6510.1	6683.8	7491.2	8570.1	8871.0
27.5°	9399.4	9467.9	9661.2	8829.4	7469.1	6608.0	6603.1	6825.7	7689.3	8817.1	9553.5
30°	9967.0	9959.7	10069.8	9105.8	7777.4	6855.1	6617.8	7038.6	7948.6	9225.7	10184.7
32.5°	10353.5	10436.7	10669.1	9489.9	7907.1	7089.9	6904.0	7288.1	8264.2	9419.0	10630.0
35°	11033.7	11178.0	10884.4	9702.8	8318.1	7322.3	7104.6	7628.2	8420.8	9629.4	11175.6
37.5°	11674.6	11564.6	11266.1	9817.8	8584.7	7752.9	7549.9	8286.3	8907.7	10086.9	11537.6
40°	12085.7	12083.2	11552.3	9910.7	8773.1	8411.0	8398.8	8954.2	9504.6	10375.6	11943.8
42.5°	12264.3	12435.5	11669.8	9900.9	9169.4	9208.6	9455.7	9952.3	9927.9	10434.3	11934.0
44°	12508.9	12611.7	11872.8	9923.0	9433.7	9746.8	10329.1	10644.7	10297.3	10402.5	11921.7
45°	12499.1	12506.5	11584.1	9952.3	9658.7	10197.0	10718.1	11251.4	10622.7	10334.0	12083.2
47.5°	12212.9	12129.7	11339.5	9734.6	10360.9	11386.0	11867.9	12190.9	11023.9	10187.2	11882.6
50°	11647.7	11552.3	10745.0	9641.6	10507.7	12124.8	12790.2	12907.7	11388.4	10042.8	11684.4
52.5°	11686.9	11660.0	10913.8	9781.1	10654.5	12357.2	13423.9	13453.2	11801.9	10346.2	11686.9
55°	12386.6	12293.6	11398.2	9954.8	10546.8	12085.7	13020.2	12968.8	11662.4	10162.7	11902.2
57.5°	11334.6	11395.7	10727.9	9267.3	9230.6	9825.1	10236.1	10108.9	9732.1	9171.9	11072.8
60°	9145.0	9318.7	9382.3	7750.5	6965.2	6659.3	6537.0	6311.9	6375.6	7535.2	9727.2
62.5°	7843.4	7833.7	8232.4	7026.3	4562.7	3924.2	3865.5	3916.8	4650.8	7417.8	9526.6
65°	6219.0	6385.3	6507.7	5954.8	3611.0	2913.8	2911.3	3236.7	4024.5	6199.4	7691.8
67.5°	3948.6	4166.4	4318.1	3809.2	2414.7	2074.6	2018.4	2409.8	2789.0	4066.1	4631.2
70°	2226.3	2329.1	2397.6	2196.9	1536.4	1076.5	1012.8	1105.8	1685.6	2632.4	2745.0
72.5°	858.7	905.2	998.2	1005.5	579.8	347.4	281.3	337.6	709.5	1042.2	993.3
75°	132.1	141.9	200.6	239.8	166.4	127.2	134.6	139.4	198.2	269.1	225.1
77.5°	63.6	63.6	61.2	70.9	83.2	90.5	97.9	107.6	117.4	129.7	124.8
80°	41.6	41.6	41.6	48.9	61.2	73.4	83.2	88.1	93.0	102.8	97.9
82.5°	26.9	26.9	26.9	36.7	48.9	61.2	66.1	78.3	88.1	102.8	95.4
85°	14.7	14.7	14.7	24.5	36.7	51.4	48.9	39.1	22.0	2.4	4.9
87.5°	4.9	4.9	4.9	4.9	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°	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0
2.5°	7691.8	7579.2	7569.4	7339.5	7134.0	7033.7	6952.9	6727.8	6776.8	6647.1	6644.7
5°	7319.9	7089.9	6718.1	6412.2	6106.4	6045.3	5778.6	5546.2	5553.5	5387.2	5416.5
7.5°	6652.0	6493.0	6040.4	5560.9	5154.8	4866.1	4614.1	4462.4	4269.1	4203.1	4168.8
10°	6228.8	6033.0	5524.2	4922.3	4467.3	4313.2	4071.0	3936.4	3738.2	3640.4	3571.9
12.5°	6042.8	5756.6	5120.5	4508.9	4205.5	4046.5	3841.0	3596.3	3361.5	3271.0	3146.2
15°	6062.4	5719.9	5003.1	4342.5	3978.0	3669.7	3486.2	3214.7	2974.9	2815.9	2725.4
17.5°	6358.4	5942.5	5056.9	4215.3	3691.8	3305.2	2945.6	2652.0	2461.2	2341.3	2311.9
20°	7058.1	6493.0	5147.4	4009.8	3405.5	2923.6	2480.7	2174.9	2028.1	2025.7	2028.1
22.5°	7640.4	7080.1	5330.9	3887.5	3119.3	2434.3	1993.9	1896.0	1866.7	1927.8	1935.2
25°	8425.7	7740.7	5646.5	3823.9	2855.1	2074.6	1803.1	1766.4	1763.9	1842.2	1844.7
27.5°	9230.6	8318.1	5834.9	3637.9	2585.9	1888.7	1688.1	1680.7	1719.9	1803.1	1795.7
30°	9778.6	8802.5	6174.9	3415.3	2267.9	1724.8	1641.6	1651.4	1705.2	1768.8	1778.6
32.5°	10417.2	9279.5	6263.0	3293.0	2072.2	1587.8	1529.1	1551.1	1619.6	1719.9	1773.7
35°	11148.7	9617.2	6397.6	3126.6	1998.8	1482.6	1453.2	1477.7	1560.9	1626.9	1685.6
37.5°	11689.3	10214.1	6422.0	2996.9	1918.0	1423.9	1377.4	1458.1	1507.0	1600.0	1629.4
40°	12090.6	10647.1	6485.6	2916.2	1854.4	1348.0	1348.0	1401.8	1467.9	1553.5	1612.2
42.5°	12347.4	10962.7	6532.1	2842.8	1732.1	1326.0	1313.8	1367.6	1455.7	1538.8	1565.8
44°	12504.0	11097.3	6485.6	2774.3	1697.9	1299.1	1299.1	1345.6	1414.1	1511.9	1543.7
45°	12543.2	11266.1	6382.9	2771.9	1656.3	1267.3	1262.4	1350.5	1396.9	1516.8	1536.4
47.5°	12694.8	11474.0	6395.1	2693.6	1556.0	1191.4	1277.1	1316.2	1357.8	1463.0	1529.1
50°	12689.9	11603.7	6368.2	2578.6	1482.6	1105.8	1247.7	1291.7	1333.3	1441.0	1467.9
52.5°	12724.2	12088.1	6615.3	2395.1	1350.5	995.7	1149.9	1247.7	1299.1	1389.6	1445.9
55°	12707.1	12364.6	6860.0	2258.1	1164.5	929.7	1066.7	1181.7	1255.0	1350.5	1377.4
57.5°	11606.1	10928.5	6348.6	2001.2	963.9	851.4	949.2	1113.2	1206.1	1304.0	1338.2
60°	9482.6	8423.3	5235.5	1472.8	792.7	782.9	883.2	1091.1	1130.3	1215.9	1274.6
62.5°	8763.3	7388.4	4151.7	1125.4	677.7	716.8	814.7	985.9	1047.1	1152.3	1206.1
65°	6857.5	4907.7	2571.3	760.9	596.9	643.4	736.4	863.6	963.9	1061.8	1125.4
67.5°	4061.2	2681.4	1272.2	533.3	521.1	570.0	665.4	760.9	875.8	983.5	1015.3
70°	2211.6	1318.7	543.1	406.1	442.8	486.9	579.8	645.9	756.0	839.1	893.0
72.5°	709.5	401.2	271.6	300.9	337.6	389.0	445.3	526.0	604.3	653.2	697.2
75°	171.3	168.8	193.3	210.4	244.6	283.8	330.3	371.9	433.0	479.5	518.7
77.5°	119.9	129.7	149.2	173.7	185.9	200.6	230.0	261.8	288.7	322.9	347.4
80°	93.0	100.3	115.0	127.2	139.4	151.7	166.4	178.6	195.7	217.7	230.0
82.5°	88.1	93.0	107.6	115.0	110.1	107.6	117.4	122.3	124.8	132.1	139.4
85°	7.3	0.0	4.9	17.1	41.6	61.2	66.1	66.1	63.6	68.5	68.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	9.8	7.3
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°	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0
2.5°	6615.3	6532.1	6563.9	6603.1	6546.8	6417.1	6451.4	6436.7	6568.8	6559.0	6691.1
5°	5546.2	5416.5	5431.2	5622.0	5560.9	5626.9	5494.8	5477.7	5502.2	5514.4	5536.4
7.5°	4244.7	4227.5	4374.3	4535.8	4611.6	4533.3	4403.7	4374.3	4347.4	4293.6	4415.9
10°	3464.2	3469.1	3459.3	3581.7	3667.3	3650.2	3571.9	3562.1	3510.7	3491.1	3559.6
12.5°	3092.4	3026.3	2994.5	2955.4	3021.4	3065.5	3031.2	3006.7	3009.2	3033.6	3043.4
15°	2732.7	2691.1	2622.6	2578.6	2610.4	2588.4	2576.2	2625.1	2612.9	2608.0	2666.7
17.5°	2329.1	2363.3	2358.4	2309.5	2351.1	2334.0	2331.5	2297.3	2250.8	2216.5	2236.1
20°	2062.4	2126.0	2174.9	2177.4	2199.4	2196.9	2160.3	2055.1	2020.8	2013.5	2018.4
22.5°	1967.0	2001.2	2059.9	2143.1	2143.1	2104.0	2059.9	1937.6	1905.8	1871.6	1856.9
25°	1891.1	1957.2	2033.0	2042.8	2082.0	2045.3	1974.3	1913.2	1847.1	1800.6	1800.6
27.5°	1852.0	1925.4	1981.7	1998.8	2052.6	2023.2	1949.9	1871.6	1793.3	1790.8	1749.2
30°	1834.9	1903.4	1940.1	1981.7	2006.1	1959.6	1937.6	1854.4	1776.2	1756.6	1688.1
32.5°	1783.5	1881.4	1949.9	1940.1	1959.6	1940.1	1908.3	1839.8	1751.7	1707.6	1700.3
35°	1724.8	1822.6	1896.0	1947.4	1959.6	1918.0	1898.5	1805.5	1685.6	1663.6	1587.8
37.5°	1693.0	1751.7	1842.2	1925.4	1942.5	1920.5	1854.4	1759.0	1639.1	1614.7	1548.6
40°	1653.8	1729.7	1800.6	1869.1	1920.5	1866.7	1790.8	1697.9	1644.0	1570.6	1551.1
42.5°	1624.5	1710.1	1768.8	1844.7	1903.4	1832.4	1744.3	1680.7	1604.9	1556.0	1499.7
44°	1614.7	1693.0	1732.1	1825.1	1874.0	1820.2	1746.8	1680.7	1592.7	1548.6	1499.7
45°	1580.4	1688.1	1729.7	1812.8	1854.4	1810.4	1717.4	1651.4	1587.8	1533.9	1482.6
47.5°	1546.2	1619.6	1690.5	1756.6	1785.9	1771.3	1693.0	1612.2	1536.4	1504.6	1455.7
50°	1536.4	1609.8	1675.8	1737.0	1771.3	1741.9	1671.0	1592.7	1504.6	1453.2	1411.6
52.5°	1487.5	1578.0	1651.4	1671.0	1715.0	1697.9	1644.0	1558.4	1475.2	1431.2	1396.9
55°	1416.5	1511.9	1612.2	1636.7	1700.3	1673.4	1592.7	1511.9	1441.0	1374.9	1330.9
57.5°	1389.6	1482.6	1580.4	1612.2	1651.4	1607.3	1587.8	1502.1	1389.6	1355.4	1286.9
60°	1321.1	1438.5	1519.3	1592.7	1595.1	1582.9	1548.6	1450.8	1357.8	1294.2	1245.3
62.5°	1267.3	1377.4	1441.0	1509.5	1551.1	1516.8	1482.6	1392.1	1291.7	1220.8	1164.5
65°	1189.0	1289.3	1343.1	1384.7	1431.2	1426.3	1367.6	1301.5	1196.3	1140.1	1086.2
67.5°	1069.1	1157.2	1230.6	1269.7	1299.1	1291.7	1247.7	1201.2	1093.6	1037.3	998.2
70°	924.8	1015.3	1061.8	1083.8	1113.2	1127.8	1093.6	1071.6	976.1	902.8	866.1
72.5°	743.7	802.4	871.0	890.5	902.8	912.5	912.5	893.0	795.1	765.8	702.1
75°	548.0	594.5	645.9	645.9	667.9	670.3	675.2	663.0	589.6	550.5	535.8
77.5°	371.9	406.1	447.7	464.8	479.5	477.1	474.6	440.4	401.2	384.1	369.4
80°	242.2	276.5	296.0	318.0	332.7	330.3	335.2	310.7	293.6	264.2	269.1
82.5°	144.3	171.3	190.8	217.7	217.7	225.1	225.1	217.7	200.6	185.9	185.9
85°	68.5	90.5	102.8	119.9	129.7	132.1	117.4	100.3	83.2	75.8	83.2
87.5°	12.2	17.1	24.5	22.0	26.9	24.5	24.5	24.5	24.5	19.6	22.0
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: P529536

CATALOG NUMBER: GALN-SA4D-722-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0	7474.0
2.5°	6642.2	6764.5	6850.2	6992.1	7236.7	7432.4	7633.0	7782.3	7799.4	7843.4
5°	5617.1	5683.2	5900.9	6184.7	6385.3	6715.6	6928.5	7315.0	7459.3	7613.5
7.5°	4386.6	4494.2	4785.3	4976.2	5416.5	5830.0	6258.1	6735.2	6926.0	6948.0
10°	3699.1	3855.7	4053.8	4359.6	4599.4	5059.3	5592.7	6123.6	6336.4	6373.1
12.5°	3248.9	3449.6	3713.8	3934.0	4163.9	4565.1	5076.5	5732.1	6008.6	6174.9
15°	2815.9	3023.9	3315.0	3620.8	3823.9	4303.4	4905.2	5644.1	6003.7	6150.5
17.5°	2370.6	2563.9	2803.7	3134.0	3542.5	4080.7	4878.3	5937.6	6331.5	6502.8
20°	1989.0	2096.6	2375.5	2715.6	3226.9	3853.2	4888.1	6370.7	6948.0	7023.9
22.5°	1839.8	1864.2	1974.3	2287.5	2847.7	3620.8	5061.8	6984.7	7640.4	7889.9
25°	1724.8	1719.9	1749.2	1959.6	2571.3	3530.3	5233.0	7549.9	8408.6	8680.1
27.5°	1661.2	1612.2	1614.7	1812.8	2375.5	3383.5	5453.2	8198.2	9279.5	9399.4
30°	1629.4	1619.6	1590.2	1671.0	2162.7	3163.3	5489.9	8836.7	9793.3	9967.0
32.5°	1609.8	1514.4	1477.7	1507.0	1962.1	2923.6	5626.9	9257.5	10429.4	10353.5
35°	1511.9	1426.3	1401.8	1431.2	1820.2	2789.0	5536.4	9624.5	10906.5	11033.7
37.5°	1475.2	1399.4	1350.5	1326.0	1688.1	2676.5	5489.9	10189.6	11368.8	11674.6
40°	1441.0	1360.2	1301.5	1277.1	1585.3	2527.2	5475.2	10625.1	11902.2	12085.7
42.5°	1401.8	1350.5	1284.4	1240.4	1460.6	2378.0	5306.4	10759.7	12066.1	12264.3
44°	1389.6	1311.3	1242.8	1228.1	1411.6	2302.1	5272.2	10882.0	12208.0	12508.9
45°	1377.4	1304.0	1225.7	1206.1	1394.5	2260.6	5225.7	10911.3	12442.8	12499.1
47.5°	1343.1	1296.6	1220.8	1167.0	1357.8	2170.0	5086.3	10745.0	12203.1	12212.9
50°	1316.2	1262.4	1184.1	1078.9	1308.9	2094.2	5149.9	10683.8	11625.7	11647.7
52.5°	1286.9	1206.1	1162.1	981.0	1228.1	2030.6	5284.4	10960.3	11691.8	11686.9
55°	1252.6	1164.5	1056.9	897.9	1093.6	1949.9	5609.8	11505.8	12303.4	12386.6
57.5°	1198.8	1122.9	968.8	824.5	939.5	1795.7	5504.6	10461.2	11319.9	11334.6
60°	1127.8	1056.9	878.3	768.2	770.6	1416.5	4922.3	8151.7	8932.1	9145.0
62.5°	1059.3	1020.2	802.4	687.5	655.7	1127.8	4161.5	6774.3	7667.3	7843.4
65°	978.6	883.2	736.4	626.3	562.7	790.2	2948.0	5061.8	5981.7	6219.0
67.5°	875.8	773.1	648.3	550.5	482.0	528.4	1521.7	2877.1	3809.2	3948.6
70°	765.8	670.3	545.6	464.8	389.0	364.5	670.3	1372.5	2082.0	2226.3
72.5°	628.7	540.7	435.5	367.0	291.1	252.0	225.1	367.0	738.8	858.7
75°	455.0	393.9	327.8	261.8	205.5	161.5	132.1	110.1	122.3	132.1
77.5°	335.2	286.2	242.2	185.9	144.3	115.0	90.5	68.5	66.1	63.6
80°	261.8	232.4	193.3	149.2	112.5	85.6	63.6	46.5	41.6	41.6
82.5°	205.5	190.8	159.0	122.3	93.0	68.5	46.5	31.8	26.9	26.9
85°	78.3	78.3	115.0	100.3	70.9	48.9	31.8	17.1	14.7	14.7
87.5°	19.6	19.6	19.6	19.6	17.1	14.7	14.7	7.3	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)