

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: P450348

Luminaire Tested: **GALN-SA1A-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2932 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): 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

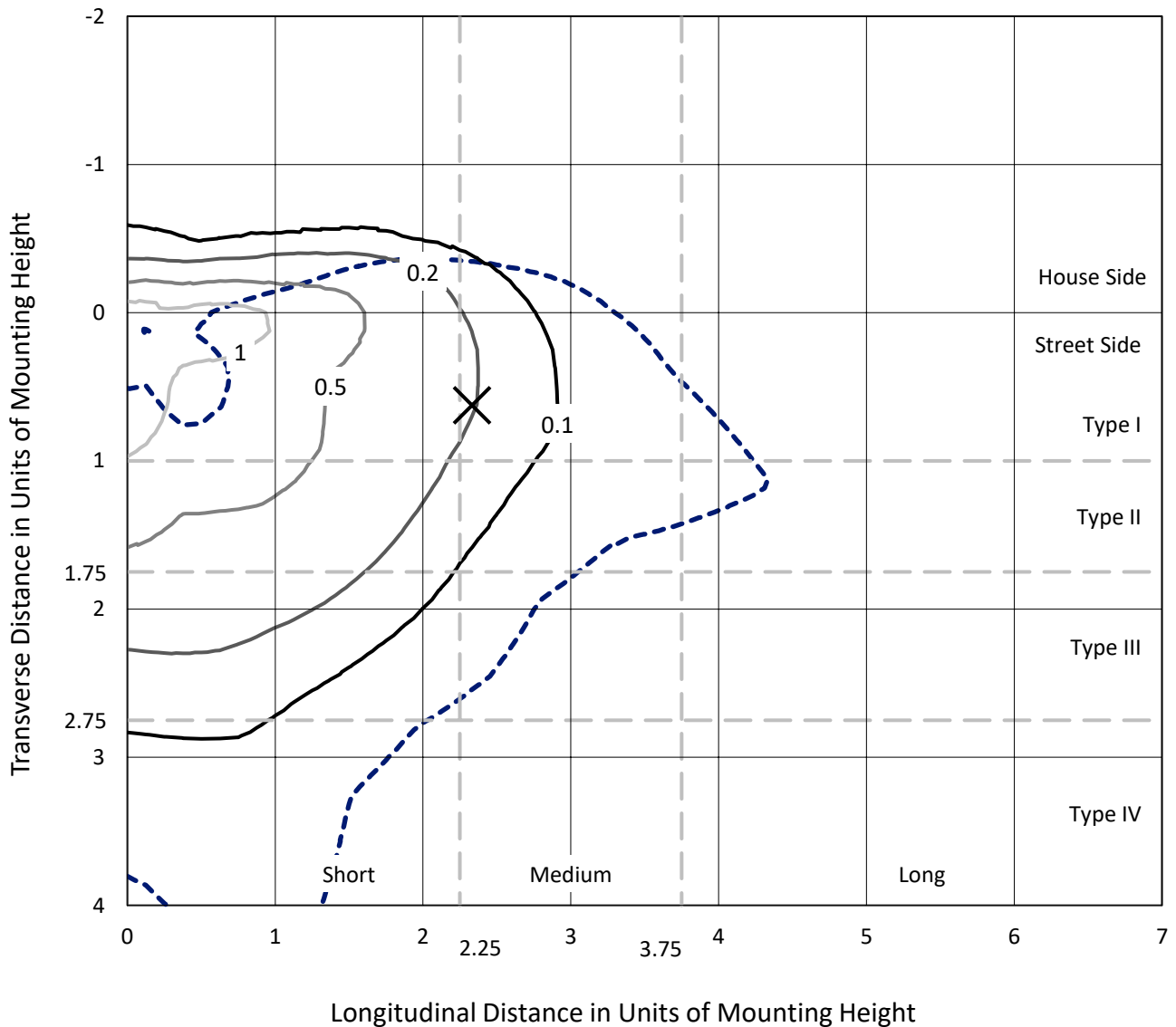




REPORT NUMBER: P450348
 CATALOG NUMBER: GALN-SA1A-827-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

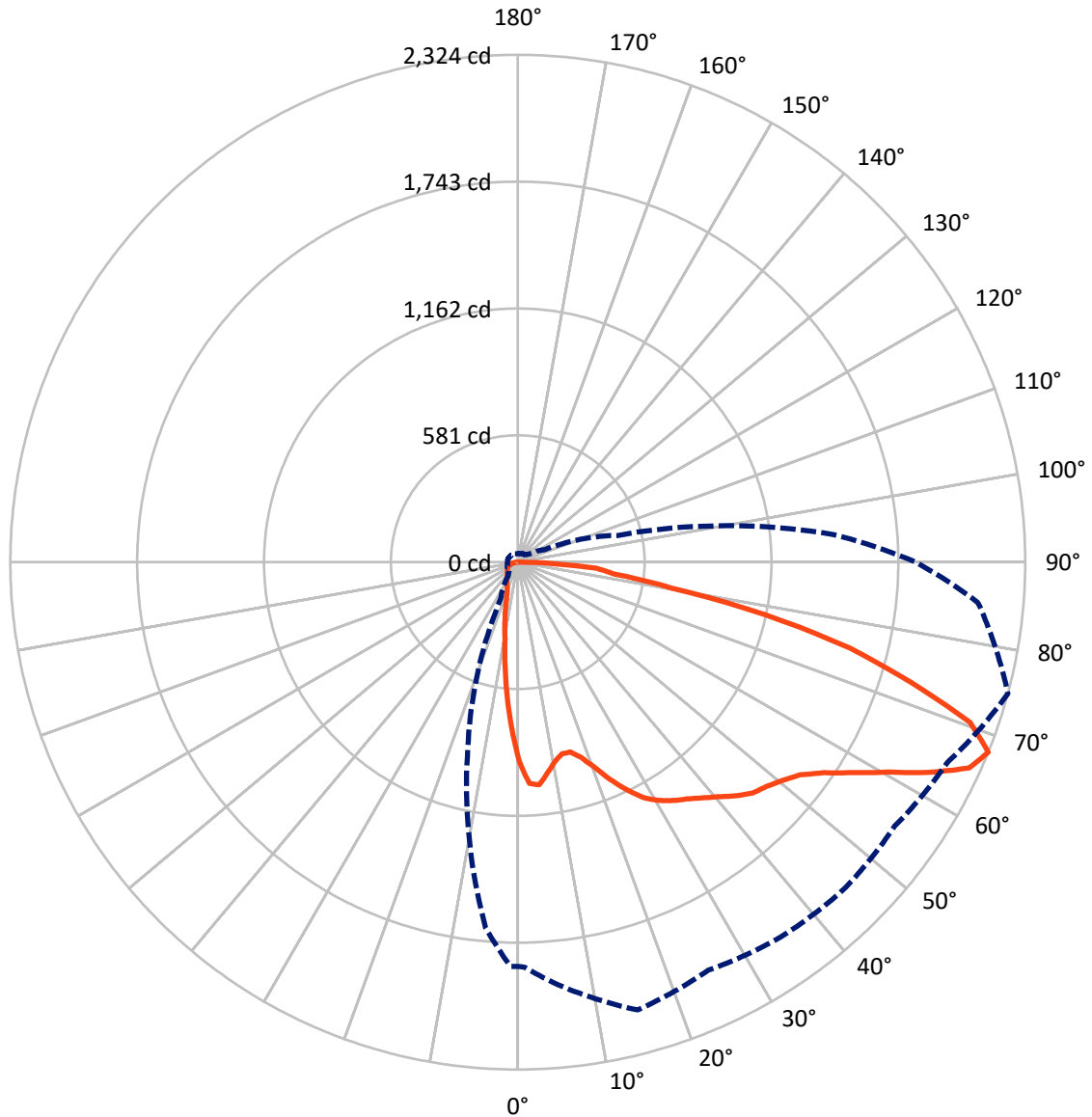
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P450348
CATALOG NUMBER: GALN-SA1A-827-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P450348

CATALOG NUMBER: GALN-SA1A-827-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	495.6	0.0	495.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	2436.4	0.0	2436.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	2932.0	0.0	2932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	2.4
10°-20°	144.9	4.9
20°-30°	208.5	7.1
30°-40°	300.3	10.2
40°-50°	421.9	14.4
50°-60°	588.3	20.1
60°-70°	699.5	23.9
70°-80°	412.0	14.1
80°-90°	87.1	3.0
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°	2932.0	100.0
0°-180°	2932.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450348

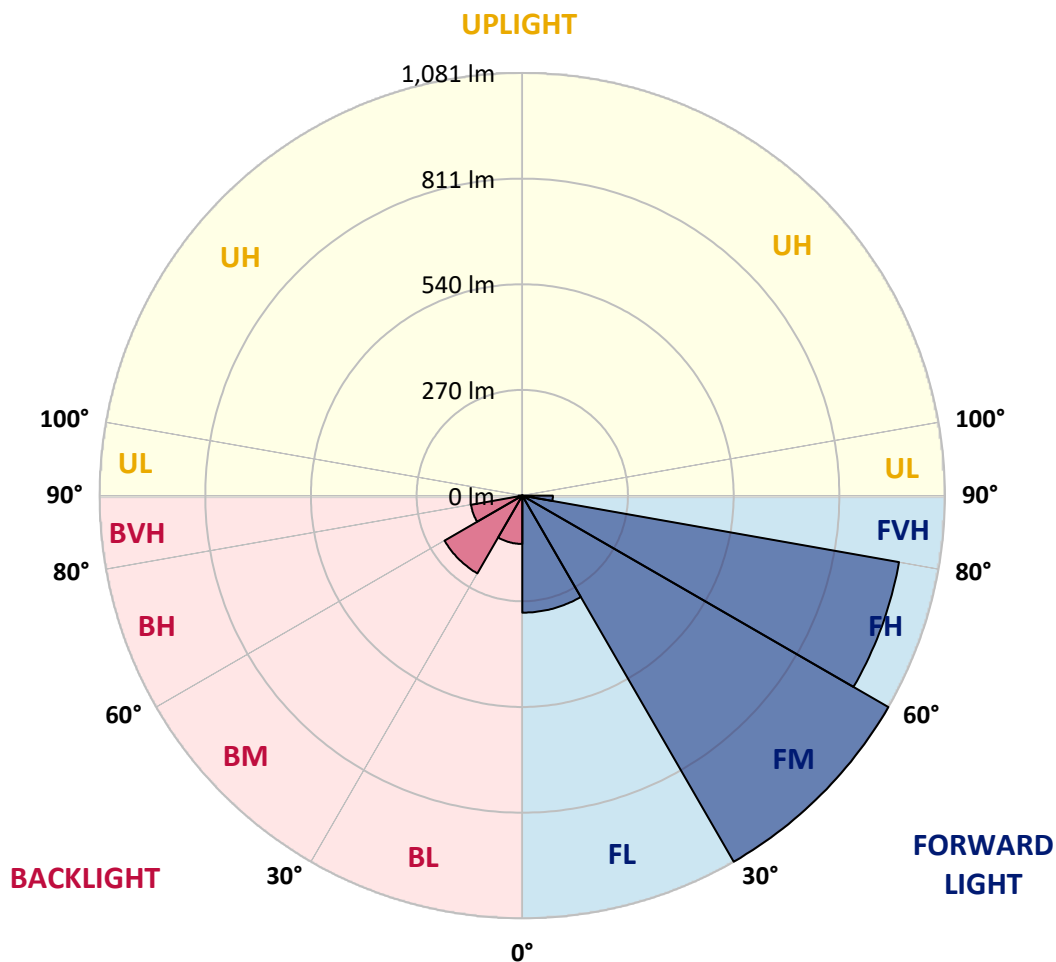
CATALOG NUMBER: GALN-SA1A-827-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	299.3	10.2			
FM (30°-60°)	1080.9	36.9			
FH (60°-80°)	978.1	33.4			G1/1800
FVH (80°-90°)	78.1	2.7			G1/100
BL (0°-30°)	123.6	4.2	B1/500		
BM (30°-60°)	229.6	7.8	B1/1000		
BH (60°-80°)	133.3	4.5	B1/500		G1/500
BVH (80°-90°)	9.0	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 III Medium





REPORT NUMBER: P450348

CATALOG NUMBER: GALN-SA1A-827-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0
2.5°	987.7	989.0	997.4	1022.1	1039.0	1045.2	1049.5	1041.4	1033.5	1014.4	985.4
5°	984.7	992.4	1014.4	1069.6	1113.3	1132.1	1137.7	1113.4	1073.4	1024.1	964.9
7.5°	927.1	937.5	971.3	1064.0	1140.9	1184.9	1179.1	1135.3	1063.1	975.3	892.5
10°	858.9	870.3	911.1	1023.2	1122.3	1182.8	1182.8	1129.4	1033.5	929.2	833.9
12.5°	804.7	816.8	863.4	981.3	1083.6	1140.9	1150.5	1104.6	1012.3	900.0	795.3
15°	786.9	798.5	848.7	955.9	1042.6	1077.5	1080.7	1065.7	1002.0	902.1	793.6
17.5°	809.0	824.1	874.9	963.4	1005.0	1007.0	1009.5	1021.3	1003.1	939.9	827.8
20°	873.2	889.3	942.3	987.7	972.1	950.6	951.9	982.4	1016.4	1002.3	909.6
22.5°	965.7	979.8	1034.1	1030.3	958.1	914.0	904.7	947.2	1036.2	1080.2	996.7
25°	1065.5	1082.0	1144.5	1093.7	962.1	892.1	886.3	926.6	1056.7	1152.9	1097.3
27.5°	1179.8	1196.0	1245.2	1157.6	982.8	890.5	883.5	924.7	1075.1	1220.2	1193.4
30°	1264.8	1279.7	1313.1	1211.4	1008.2	901.7	893.1	939.5	1090.9	1266.3	1287.0
32.5°	1331.5	1347.0	1365.2	1244.9	1041.6	922.2	906.2	966.6	1111.6	1301.5	1356.4
35°	1401.1	1419.4	1418.0	1274.6	1072.8	945.9	930.3	1005.7	1144.1	1332.1	1444.4
37.5°	1489.3	1496.6	1487.2	1301.3	1110.2	988.6	980.0	1063.8	1190.3	1369.2	1547.2
40°	1578.8	1593.5	1545.1	1333.6	1155.7	1068.9	1067.9	1149.7	1245.2	1412.6	1646.9
42.5°	1655.5	1667.9	1599.3	1361.8	1210.8	1166.8	1174.0	1265.0	1317.3	1463.0	1727.0
45°	1713.2	1724.3	1649.3	1389.1	1283.4	1280.0	1322.1	1388.5	1408.1	1508.3	1774.0
47.5°	1762.3	1773.0	1684.1	1430.4	1373.1	1415.2	1488.5	1517.3	1485.7	1534.2	1826.6
50°	1803.7	1806.9	1708.0	1479.7	1484.4	1580.9	1651.9	1670.5	1562.4	1571.5	1872.3
52.5°	1846.7	1842.6	1749.1	1541.8	1604.7	1738.0	1789.7	1809.1	1635.9	1617.3	1938.8
55°	1943.2	1947.1	1841.5	1620.0	1726.4	1892.4	1960.5	1941.9	1717.4	1701.8	2023.5
57.5°	2059.7	2056.4	1971.4	1742.4	1850.3	2036.1	2086.8	2056.9	1826.0	1817.8	2109.2
60°	2105.1	2109.6	2080.0	1874.0	1972.5	2161.8	2213.7	2167.3	1956.3	1952.6	2173.9
62.5°	2059.6	2084.9	2104.9	1991.1	2076.7	2254.3	2305.9	2252.8	2092.3	2119.5	2219.2
65°	1968.9	1974.4	2042.3	2090.4	2126.9	2269.6	2296.5	2268.3	2205.8	2271.6	2217.1
67.5°	1851.2	1855.9	1935.5	2122.9	2062.2	2096.6	2115.4	2107.1	2170.7	2323.7	2115.0
70°	1739.2	1735.4	1819.5	2040.0	1795.2	1742.9	1758.5	1732.6	1873.0	2196.4	1914.8
72.5°	1521.1	1534.6	1624.9	1809.5	1421.4	1336.4	1370.5	1303.3	1440.6	1881.1	1554.2
75°	1191.5	1194.7	1345.3	1518.6	1072.3	938.2	984.3	956.3	1103.5	1569.2	1073.2
77.5°	825.0	817.9	979.8	1159.9	764.7	686.8	687.6	674.2	770.5	1155.4	729.1
80°	524.0	513.1	613.3	716.5	525.5	562.2	543.7	543.2	501.6	712.8	440.9
82.5°	283.2	295.2	387.5	449.2	377.0	434.5	398.2	386.6	344.3	446.2	282.0
85°	129.0	140.3	206.6	305.5	286.4	289.5	193.5	228.3	284.8	362.3	150.6
87.5°	12.6	16.2	42.7	144.2	97.8	77.1	28.8	55.5	71.6	128.8	12.0
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: P450348
 CATALOG NUMBER: GALN-SA1A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0
2.5°	973.6	963.8	930.5	903.1	873.9	851.7	822.8	803.4	790.1	769.9	767.5
5°	928.8	904.9	847.0	788.0	737.0	698.7	659.8	624.0	603.0	596.4	587.9
7.5°	853.4	813.2	738.7	671.0	612.6	555.4	511.4	480.2	459.3	447.1	432.4
10°	791.4	744.7	654.1	571.2	523.1	487.5	448.8	415.3	389.6	367.6	355.5
12.5°	749.6	697.0	595.1	527.8	490.5	452.7	407.4	369.8	331.9	306.8	296.1
15°	737.0	681.4	576.8	506.1	452.7	403.3	352.5	303.5	265.9	242.2	234.3
17.5°	767.9	700.6	576.7	477.4	408.4	349.3	284.3	238.2	199.7	182.0	176.4
20°	825.4	737.4	578.3	449.0	360.2	277.1	206.8	169.0	150.6	143.1	140.3
22.5°	905.7	793.6	583.4	421.0	307.6	212.8	154.9	135.7	129.2	127.9	127.3
25°	1004.6	863.2	600.5	395.8	263.2	162.4	129.5	120.9	117.1	115.8	115.6
27.5°	1095.6	953.1	621.2	374.2	220.4	140.1	117.1	109.8	106.0	105.9	106.2
30°	1177.7	1028.3	638.5	349.9	187.8	124.5	109.1	101.7	98.1	98.0	99.1
32.5°	1248.8	1090.1	651.3	326.0	169.8	114.9	101.7	93.8	90.8	90.2	90.8
35°	1324.8	1151.8	645.5	307.4	159.4	107.0	96.3	88.6	85.0	83.3	83.3
37.5°	1411.5	1215.4	635.5	292.0	154.7	100.4	91.6	84.0	80.5	78.8	78.6
40°	1506.0	1278.9	621.8	278.3	150.0	96.5	88.4	80.5	76.1	74.5	74.1
42.5°	1589.5	1333.2	610.5	269.2	142.3	97.2	85.5	77.8	72.4	70.1	69.9
45°	1662.1	1388.0	608.4	264.0	135.9	96.1	84.8	75.8	69.4	66.9	66.6
47.5°	1718.9	1444.9	620.3	261.0	129.0	90.1	89.7	74.5	66.7	64.1	63.7
50°	1788.1	1525.8	647.3	254.8	122.6	84.4	94.8	74.3	64.7	61.3	60.4
52.5°	1880.2	1631.1	684.0	243.7	113.4	79.2	90.4	74.3	62.2	58.8	57.7
55°	2019.5	1765.3	719.9	228.1	100.4	72.2	81.6	72.0	58.7	55.7	54.9
57.5°	2111.8	1863.5	742.9	206.4	84.2	67.1	70.3	68.4	55.1	51.9	51.9
60°	2116.5	1889.8	732.0	179.2	74.1	62.4	61.1	69.0	51.9	48.5	48.1
62.5°	2062.4	1825.3	675.2	154.7	68.6	57.3	55.3	60.5	48.7	45.3	44.7
65°	1977.8	1660.8	576.7	143.1	65.6	52.8	49.8	49.6	45.3	42.1	41.4
67.5°	1822.3	1451.3	473.8	136.3	64.1	47.8	44.9	44.0	41.4	38.7	38.4
70°	1593.1	1215.5	380.0	133.5	63.4	42.5	40.2	39.1	36.9	34.8	34.6
72.5°	1239.4	986.0	313.6	131.6	63.0	37.6	35.2	33.7	32.3	30.5	30.5
75°	890.3	725.4	239.3	118.6	58.3	32.3	29.7	28.8	26.9	25.4	25.8
77.5°	561.2	488.5	157.6	87.2	45.1	25.9	23.7	23.1	21.6	19.6	20.9
80°	379.0	343.5	91.9	54.9	28.4	19.0	18.2	18.0	16.4	14.1	14.3
82.5°	258.0	253.1	47.8	31.2	16.4	11.1	10.7	11.1	9.2	7.5	7.5
85°	100.8	137.6	22.6	12.2	5.3	1.7	2.4	2.6	1.5	0.8	0.9
87.5°	1.9	14.1	0.6	0.0	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



REPORT NUMBER: P450348
 CATALOG NUMBER: GALN-SA1A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0
2.5°	763.7	762.0	764.9	752.8	755.3	759.8	762.0	763.4	782.0	777.6	789.5
5°	595.8	594.1	605.0	606.5	612.2	611.1	616.5	617.8	624.6	627.0	643.6
7.5°	433.4	440.7	453.1	459.5	469.1	472.1	469.3	476.3	462.1	472.3	475.3
10°	348.2	339.4	334.1	348.8	350.7	364.6	358.9	354.4	362.7	363.1	371.0
12.5°	289.9	270.9	258.3	262.5	267.0	273.0	273.9	283.0	289.0	294.6	299.3
15°	227.3	220.7	209.3	203.6	210.0	212.5	218.3	225.8	232.2	233.9	240.3
17.5°	174.5	175.6	173.7	170.3	174.3	176.2	176.5	176.7	178.4	177.3	186.7
20°	140.4	144.4	149.1	149.9	151.2	152.1	150.4	144.0	144.2	148.2	151.2
22.5°	127.1	127.9	133.1	134.8	138.9	137.3	132.4	129.4	129.0	129.9	131.4
25°	116.6	117.7	121.5	124.1	127.3	124.3	120.7	117.9	117.5	118.5	120.0
27.5°	107.2	108.9	112.2	114.9	117.9	115.1	111.7	109.2	109.1	108.9	109.8
30°	99.6	101.5	104.0	107.0	109.1	106.6	103.4	102.1	101.9	101.5	101.9
32.5°	92.1	95.1	97.6	99.1	101.2	99.3	96.8	96.1	94.8	93.6	93.1
35°	83.7	86.9	90.6	92.5	94.6	92.7	91.0	87.8	85.5	85.4	85.7
37.5°	78.8	80.1	83.1	86.3	88.4	87.4	84.2	81.0	80.5	80.5	80.8
40°	74.5	75.0	76.3	80.5	84.2	81.4	77.5	76.5	76.5	76.3	76.5
42.5°	70.1	70.7	70.7	73.9	79.9	75.4	72.4	72.4	72.4	72.6	73.1
45°	66.2	66.4	66.2	68.4	74.1	70.3	68.3	68.8	69.2	69.6	69.9
47.5°	62.8	63.0	62.8	64.7	67.5	66.0	64.9	65.6	66.4	66.9	67.3
50°	59.8	59.6	60.0	61.1	62.4	62.8	62.0	63.2	63.6	64.3	65.2
52.5°	57.2	57.0	57.3	57.9	59.8	59.8	59.8	60.7	61.5	62.2	63.6
55°	54.1	54.3	54.9	55.7	58.1	57.7	57.9	58.7	59.4	60.5	61.3
57.5°	51.3	51.7	52.5	53.6	56.0	55.8	56.0	56.4	57.3	57.9	58.7
60°	48.1	48.9	49.8	50.6	53.0	52.8	53.8	54.5	55.1	55.1	55.5
62.5°	44.9	46.1	47.0	47.6	50.2	50.4	51.7	52.3	52.6	52.3	52.8
65°	41.7	43.4	43.8	44.6	47.2	47.4	48.9	50.2	49.8	49.4	50.4
67.5°	38.5	40.6	40.4	41.4	44.0	44.4	45.7	47.9	47.2	46.8	47.6
70°	35.0	36.5	36.7	37.2	40.8	40.2	42.3	44.4	43.8	44.0	44.0
72.5°	31.0	32.3	32.3	33.5	37.2	36.3	38.0	40.2	40.2	40.0	40.0
75°	26.3	27.1	27.8	29.5	33.5	32.3	33.5	35.5	35.9	35.5	35.5
77.5°	21.2	22.4	22.8	25.0	27.8	27.6	28.8	29.7	30.5	30.1	30.1
80°	15.0	16.2	17.7	20.1	21.8	22.4	22.9	23.7	24.1	24.1	24.4
82.5°	8.5	10.2	11.5	13.9	14.7	17.5	17.3	17.9	17.3	15.2	16.9
85°	1.9	3.6	5.1	6.4	7.3	10.2	10.7	12.0	10.0	9.2	9.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	3.0	4.1	3.6	3.0	3.0
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: P450348
 CATALOG NUMBER: GALN-SA1A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0
2.5°	799.5	815.8	835.6	869.6	893.5	919.2	945.2	972.8	980.1	987.7
5°	648.1	680.3	697.7	743.4	791.4	852.3	902.1	956.6	979.4	984.7
7.5°	490.9	512.7	558.6	604.9	664.3	728.2	804.5	889.5	916.0	927.1
10°	389.2	418.9	459.1	508.8	560.9	629.7	715.8	815.1	852.7	858.9
12.5°	331.3	364.4	408.2	460.6	509.9	561.8	648.7	751.1	791.4	804.7
15°	264.9	305.0	355.5	410.8	464.4	521.2	609.2	724.8	771.3	786.9
17.5°	208.1	240.5	295.2	355.2	418.7	490.5	600.9	737.4	794.6	809.0
20°	159.3	182.4	228.4	291.8	366.3	460.3	603.0	785.0	853.4	873.2
22.5°	137.6	149.5	177.5	237.8	321.1	433.9	611.4	850.2	932.8	965.7
25°	124.7	130.9	146.7	186.1	278.1	408.4	630.8	938.0	1043.7	1065.5
27.5°	113.6	118.1	127.9	156.2	239.0	384.7	653.4	1035.4	1147.3	1179.8
30°	103.0	109.1	118.3	138.8	214.0	363.1	681.8	1114.4	1234.5	1264.8
32.5°	94.9	101.0	109.4	126.5	192.7	340.3	698.7	1183.8	1305.8	1331.5
35°	88.4	93.4	102.3	116.8	176.5	323.0	695.3	1238.9	1374.8	1401.1
37.5°	83.7	88.0	96.8	107.5	164.3	305.0	693.6	1311.6	1458.8	1489.3
40°	79.3	83.9	91.9	101.5	152.1	283.7	694.5	1383.8	1548.3	1578.8
42.5°	76.0	81.0	87.6	99.8	139.5	266.6	694.5	1446.6	1626.2	1655.5
45°	73.1	78.6	85.0	99.6	129.5	253.6	689.8	1500.6	1688.2	1713.2
47.5°	70.7	76.7	85.9	96.3	127.1	244.2	685.7	1543.8	1738.8	1762.3
50°	69.0	76.1	91.4	92.3	127.9	241.4	705.6	1598.3	1783.4	1803.7
52.5°	67.7	76.3	91.2	86.5	126.5	243.3	747.2	1683.5	1845.2	1846.7
55°	65.1	76.1	86.5	79.9	121.1	246.5	800.6	1807.2	1942.0	1943.2
57.5°	62.4	74.1	80.3	74.3	110.0	246.5	864.9	1924.4	2058.8	2059.7
60°	59.8	77.1	70.5	69.4	95.5	242.0	932.8	1975.9	2095.5	2105.1
62.5°	57.2	77.7	63.0	65.1	85.0	231.1	983.3	1918.9	2045.8	2059.6
65°	54.1	62.6	58.1	60.5	79.5	212.8	967.4	1814.6	1952.6	1968.9
67.5°	50.6	53.0	52.8	55.8	77.7	186.0	883.1	1682.6	1852.2	1851.2
70°	46.3	47.6	48.1	51.3	74.1	165.1	735.9	1511.3	1718.1	1739.2
72.5°	41.7	42.9	43.4	46.3	70.5	153.2	571.2	1275.3	1488.2	1521.1
75°	36.9	37.6	38.4	40.8	66.7	135.7	406.9	973.6	1139.8	1191.5
77.5°	31.8	31.8	32.7	35.2	56.2	112.1	273.0	682.9	772.2	825.0
80°	25.8	25.9	25.6	28.2	41.4	76.7	155.1	456.1	513.9	524.0
82.5°	19.7	19.2	19.4	20.7	30.8	52.3	82.7	283.3	288.8	283.2
85°	12.4	12.4	12.0	13.5	19.7	27.3	45.1	173.5	135.6	129.0
87.5°	5.1	4.1	4.7	5.5	9.4	11.1	17.7	35.7	13.7	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)