

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: P450928

Luminaire Tested: **GALN-SA1D-730-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450928  
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-SA1D-730-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6145 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

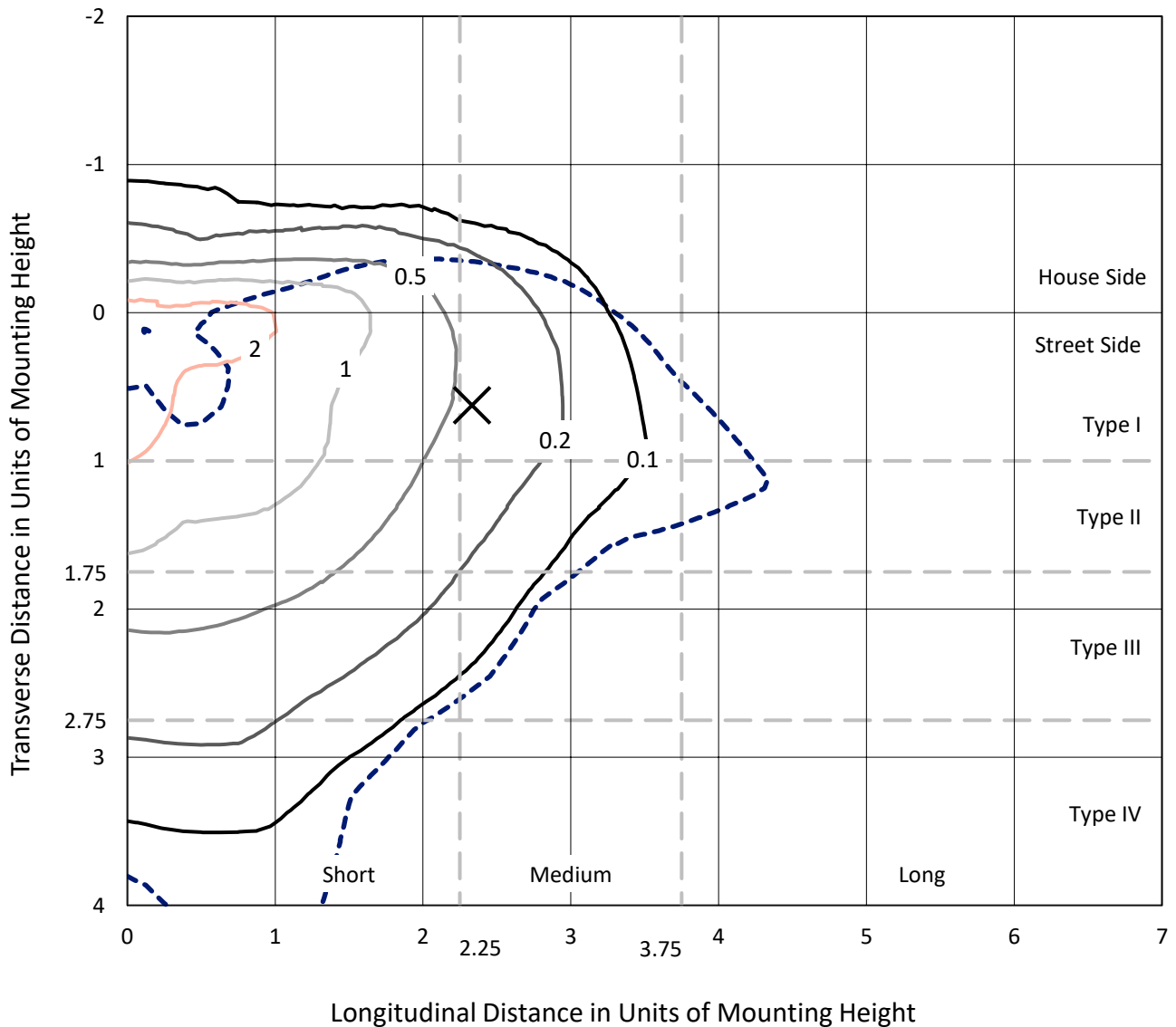
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P450928  
 CATALOG NUMBER: GALN-SA1D-730-U-SLL

### Iso-Footcandle Lines of Horizontal Illumination

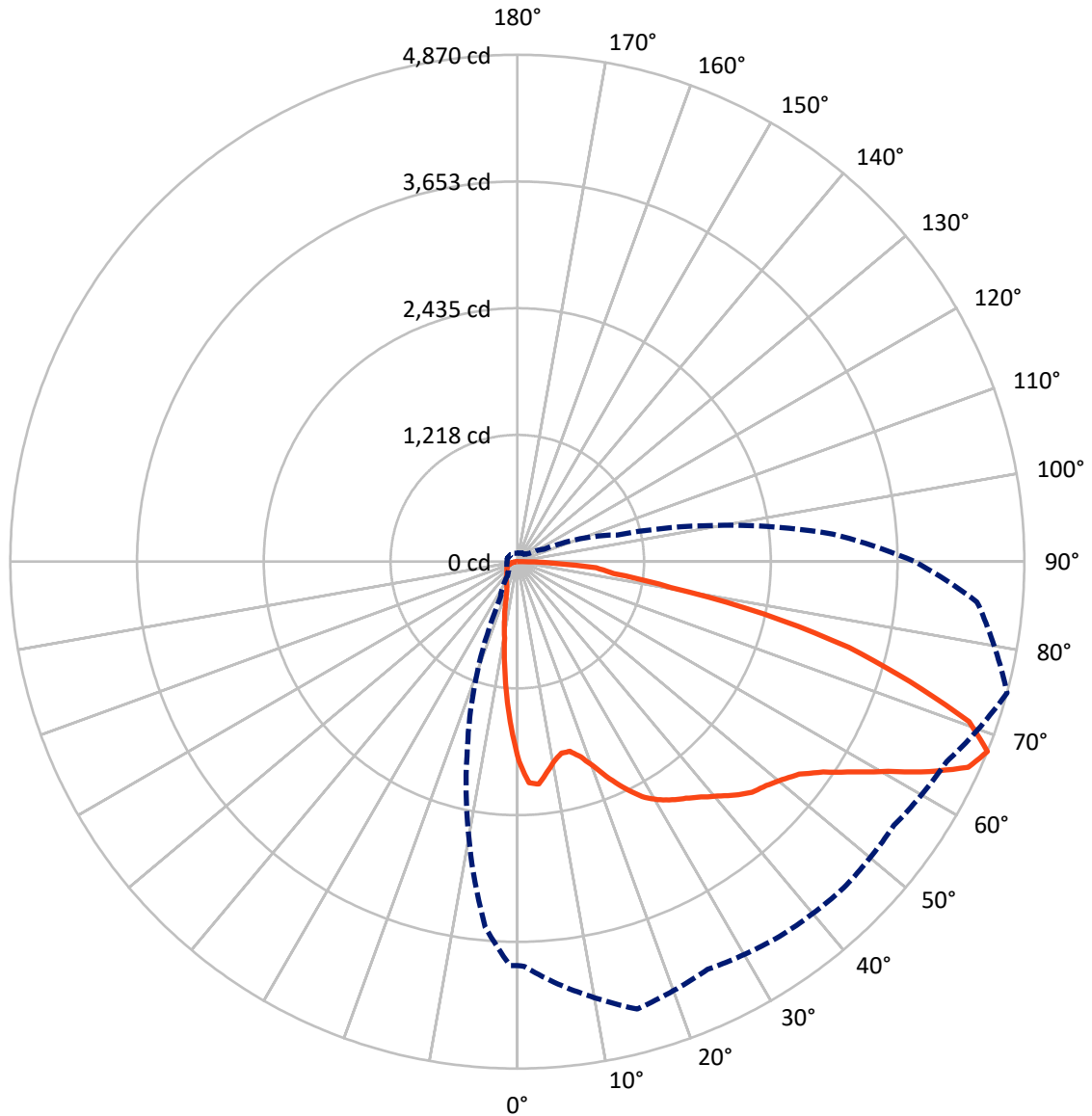
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Medium - N/A

REPORT NUMBER: P450928  
CATALOG NUMBER: GALN-SA1D-730-U-SLL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P450928

CATALOG NUMBER: GALN-SA1D-730-U-SLL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1038.6	0.0	1038.6
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	5106.4	0.0	5106.4
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	6145.0	0.0	6145.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.6	2.4
10°-20°	303.7	4.9
20°-30°	437.0	7.1
30°-40°	629.4	10.2
40°-50°	884.2	14.4
50°-60°	1233.1	20.1
60°-70°	1466.1	23.9
70°-80°	863.4	14.1
80°-90°	182.6	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°	6145.0	100.0
0°-180°	6145.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P450928

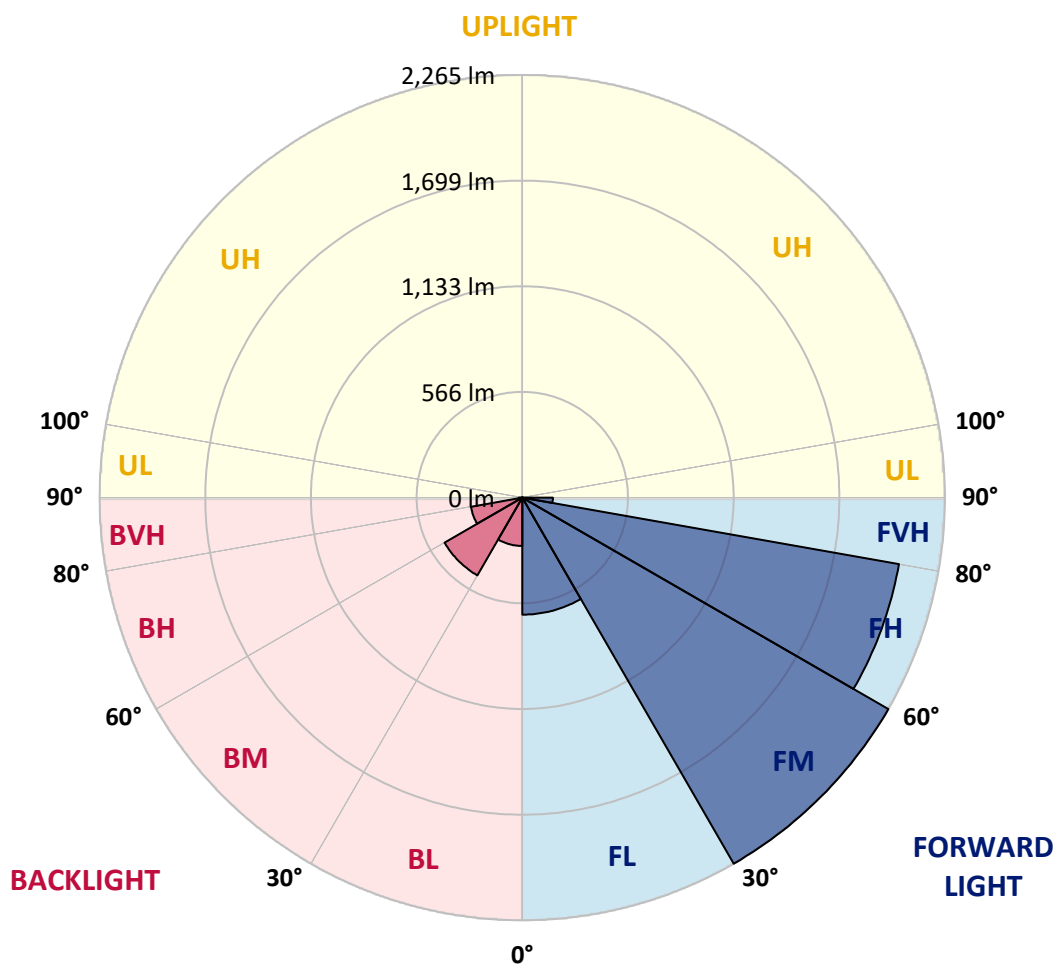
CATALOG NUMBER: GALN-SA1D-730-U-SLL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.2	10.2			
FM (30°-60°)	2265.4	36.9			
FH (60°-80°)	2050.0	33.4			G2/5000
FVH (80°-90°)	163.7	2.7			G2/225
BL (0°-30°)	259.1	4.2	B1/500		
BM (30°-60°)	481.2	7.8	B1/1000		
BH (60°-80°)	279.5	4.5	B1/500		G1/500
BVH (80°-90°)	18.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





REPORT NUMBER: P450928

CATALOG NUMBER: GALN-SA1D-730-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8
2.5°	2070.0	2072.7	2090.5	2142.1	2177.6	2190.6	2199.6	2182.7	2166.1	2125.9	2065.3
5°	2063.7	2079.8	2125.9	2241.8	2333.2	2372.6	2384.4	2333.6	2249.7	2146.4	2022.3
7.5°	1943.1	1964.8	2035.7	2230.0	2391.1	2483.3	2471.1	2379.3	2228.0	2044.0	1870.6
10°	1800.1	1824.1	1909.6	2144.5	2352.1	2479.0	2479.0	2367.1	2166.1	1947.4	1747.6
12.5°	1686.6	1711.8	1809.5	2056.6	2270.9	2391.1	2411.2	2315.1	2121.6	1886.3	1666.9
15°	1649.1	1673.6	1778.8	2003.4	2185.0	2258.3	2265.0	2233.5	2099.9	1890.7	1663.3
17.5°	1695.6	1727.1	1833.5	2019.1	2106.2	2110.6	2115.7	2140.5	2102.3	1969.9	1735.0
20°	1830.0	1863.9	1975.0	2070.0	2037.3	1992.3	1995.1	2058.9	2130.3	2100.7	1906.4
22.5°	2023.9	2053.4	2167.3	2159.4	2008.1	1915.5	1896.2	1985.3	2171.6	2263.9	2088.9
25°	2233.1	2267.8	2398.6	2292.2	2016.4	1869.8	1857.6	1941.9	2214.6	2416.4	2299.7
27.5°	2472.7	2506.6	2609.8	2426.2	2059.7	1866.3	1851.7	1938.0	2253.2	2557.4	2501.1
30°	2650.8	2681.9	2752.1	2538.9	2112.9	1889.9	1871.8	1969.1	2286.3	2654.0	2697.3
32.5°	2790.7	2823.0	2861.2	2609.0	2183.1	1932.8	1899.4	2025.8	2329.7	2727.7	2842.7
35°	2936.5	2974.7	2972.0	2671.3	2248.5	1982.5	1949.8	2107.8	2397.8	2791.9	3027.1
37.5°	3121.3	3136.7	3117.0	2727.3	2326.9	2071.9	2053.8	2229.6	2494.8	2869.5	3242.7
40°	3308.9	3339.6	3238.4	2795.0	2422.3	2240.2	2238.2	2409.7	2609.8	2960.5	3451.5
42.5°	3469.7	3495.7	3351.8	2854.2	2537.7	2445.5	2460.5	2651.2	2760.8	3066.2	3619.4
45°	3590.6	3613.9	3456.7	2911.3	2689.8	2682.7	2771.0	2910.1	2951.1	3161.1	3717.9
47.5°	3693.5	3716.0	3529.6	2998.0	2877.8	2966.1	3119.7	3180.0	3113.8	3215.5	3828.3
50°	3780.2	3786.9	3579.6	3101.2	3111.1	3313.2	3462.2	3501.2	3274.6	3293.5	3924.0
52.5°	3870.4	3861.8	3665.9	3231.3	3363.3	3642.7	3751.0	3791.6	3428.7	3389.7	4063.5
55°	4072.6	4080.8	3859.4	3395.2	3618.2	3966.2	4108.8	4069.8	3599.3	3566.6	4240.8
57.5°	4316.9	4309.8	4131.7	3651.7	3877.9	4267.2	4373.6	4311.0	3827.1	3809.7	4420.5
60°	4411.9	4421.3	4359.4	3927.6	4134.0	4530.9	4639.6	4542.3	4100.2	4092.3	4556.1
62.5°	4316.5	4369.7	4411.5	4173.1	4352.4	4724.7	4832.7	4721.6	4385.1	4442.2	4651.0
65°	4126.6	4138.0	4280.2	4381.1	4457.6	4756.7	4813.0	4753.9	4623.1	4761.0	4646.7
67.5°	3879.9	3889.7	4056.4	4449.3	4322.0	4394.1	4433.5	4416.2	4549.4	4870.1	4432.7
70°	3645.0	3637.1	3813.3	4275.5	3762.5	3652.9	3685.6	3631.2	3925.6	4603.4	4013.1
72.5°	3187.9	3216.3	3405.4	3792.4	2979.1	2801.0	2872.3	2731.6	3019.3	3942.5	3257.3
75°	2497.1	2503.8	2819.5	3182.8	2247.3	1966.3	2062.9	2004.2	2312.7	3288.8	2249.3
77.5°	1729.1	1714.1	2053.4	2430.9	1602.6	1439.5	1441.1	1413.1	1614.8	2421.5	1528.2
80°	1098.2	1075.4	1285.4	1501.7	1101.4	1178.2	1139.6	1138.4	1051.3	1493.9	924.1
82.5°	593.4	618.7	812.2	941.4	790.1	910.7	834.6	810.2	721.5	935.1	591.1
85°	270.3	294.0	433.1	640.3	600.1	606.8	405.5	478.4	597.0	759.3	315.6
87.5°	26.4	33.9	89.5	302.2	204.9	161.6	60.3	116.2	150.1	269.9	25.2
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: P450928  
 CATALOG NUMBER: GALN-SA1D-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8
2.5°	2040.4	2019.9	1950.2	1892.7	1831.6	1785.1	1724.4	1683.8	1655.8	1613.7	1608.5
5°	1946.6	1896.6	1775.2	1651.5	1544.7	1464.3	1382.7	1307.9	1263.7	1249.9	1232.2
7.5°	1788.6	1704.3	1548.2	1406.4	1283.8	1164.0	1071.8	1006.4	962.7	937.1	906.3
10°	1658.6	1560.9	1370.9	1197.1	1096.3	1021.8	940.6	870.5	816.5	770.4	745.2
12.5°	1571.1	1460.8	1247.2	1106.1	1028.1	948.9	853.9	775.1	695.5	643.1	620.6
15°	1544.7	1428.1	1209.0	1060.8	948.9	845.3	738.9	636.0	557.2	507.5	491.0
17.5°	1609.3	1468.3	1208.6	1000.5	855.9	732.2	595.8	499.3	418.5	381.4	369.6
20°	1729.9	1545.5	1212.1	941.0	755.0	580.8	433.5	354.3	315.6	299.9	294.0
22.5°	1898.2	1663.3	1222.8	882.3	644.7	446.1	324.7	284.5	270.7	268.0	266.8
25°	2105.4	1809.1	1258.6	829.5	551.7	340.5	271.5	253.4	245.5	242.7	242.3
27.5°	2296.2	1997.5	1302.0	784.2	461.8	293.6	245.5	230.1	222.2	221.9	222.6
30°	2468.4	2155.1	1338.2	733.3	393.7	260.9	228.6	213.2	205.7	205.3	207.7
32.5°	2617.3	2284.7	1365.0	683.3	355.8	240.8	213.2	196.6	190.3	189.1	190.3
35°	2776.5	2414.0	1352.8	644.3	334.2	224.2	201.8	185.6	178.1	174.6	174.6
37.5°	2958.2	2547.2	1331.9	612.0	324.3	210.4	191.9	176.1	168.7	165.1	164.7
40°	3156.4	2680.4	1303.1	583.2	314.5	202.2	185.2	168.7	159.6	156.0	155.3
42.5°	3331.4	2794.3	1279.5	564.3	298.3	203.7	179.3	163.1	151.7	147.0	146.6
45°	3483.5	2908.9	1275.2	553.3	284.9	201.4	177.7	158.8	145.4	140.3	139.5
47.5°	3602.5	3028.3	1300.0	547.0	270.3	188.8	188.0	156.0	139.9	134.4	133.6
50°	3747.5	3197.8	1356.7	533.9	256.9	176.9	198.6	155.7	135.6	128.5	126.5
52.5°	3940.6	3418.4	1433.6	510.7	237.6	165.9	189.5	155.7	130.4	123.3	121.0
55°	4232.6	3699.8	1508.8	478.0	210.4	151.3	171.0	150.9	122.9	116.6	115.1
57.5°	4426.0	3905.5	1556.9	432.7	176.5	140.7	147.4	143.4	115.5	108.8	108.8
60°	4435.9	3960.7	1534.1	375.5	155.3	130.8	128.1	144.6	108.8	101.7	100.9
62.5°	4322.4	3825.5	1415.1	324.3	143.8	120.2	115.9	126.9	102.1	95.0	93.8
65°	4145.1	3480.7	1208.6	299.9	137.5	110.7	104.4	104.0	95.0	88.3	86.7
67.5°	3819.2	3041.7	993.0	285.7	134.4	100.1	94.2	92.2	86.7	81.2	80.4
70°	3338.8	2547.6	796.4	279.8	132.8	89.1	84.3	82.0	77.2	72.9	72.5
72.5°	2597.6	2066.4	657.3	275.8	132.0	78.8	73.7	70.5	67.8	63.8	63.8
75°	1865.9	1520.3	501.6	248.6	122.2	67.8	62.3	60.3	56.4	53.2	54.0
77.5°	1176.3	1023.8	330.2	182.8	94.6	54.4	49.7	48.5	45.3	41.0	43.7
80°	794.4	719.9	192.7	115.1	59.5	39.8	38.2	37.8	34.3	29.6	29.9
82.5°	540.6	530.4	100.1	65.4	34.3	23.2	22.5	23.2	19.3	15.8	15.8
85°	211.2	288.4	47.3	25.6	11.0	3.5	5.1	5.5	3.2	1.6	2.0
87.5°	3.9	29.6	1.2	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: P450928  
 CATALOG NUMBER: GALN-SA1D-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8
2.5°	1600.7	1597.1	1603.0	1577.8	1582.9	1592.4	1597.1	1599.9	1638.9	1629.8	1654.6
5°	1248.8	1245.2	1268.1	1271.2	1283.0	1280.7	1292.1	1294.9	1309.1	1314.2	1348.9
7.5°	908.3	923.7	949.7	963.1	983.2	989.5	983.6	998.1	968.6	989.9	996.2
10°	729.8	711.3	700.2	731.0	734.9	764.1	752.3	742.8	760.1	760.9	777.5
12.5°	607.6	567.8	541.4	550.1	559.6	572.2	574.1	593.1	605.7	617.5	627.3
15°	476.4	462.6	438.6	426.8	440.2	445.3	457.5	473.3	486.7	490.2	503.6
17.5°	365.7	368.0	364.1	357.0	365.3	369.2	370.0	370.4	374.0	371.6	391.3
20°	294.4	302.6	312.5	314.1	316.8	318.8	315.2	301.8	302.2	310.5	316.8
22.5°	266.4	268.0	279.0	282.5	291.2	287.7	277.4	271.1	270.3	272.3	275.4
25°	244.3	246.7	254.6	260.1	266.8	260.5	253.0	247.1	246.3	248.3	251.4
27.5°	224.6	228.2	235.3	240.8	247.1	241.2	234.1	228.9	228.6	228.2	230.1
30°	208.8	212.8	217.9	224.2	228.6	223.4	216.7	214.0	213.6	212.8	213.6
32.5°	193.1	199.4	204.5	207.7	212.0	208.1	202.9	201.4	198.6	196.2	195.1
35°	175.4	182.1	189.9	193.9	198.2	194.3	190.7	184.0	179.3	178.9	179.7
37.5°	165.1	167.9	174.2	180.9	185.2	183.2	176.5	169.8	168.7	168.7	169.4
40°	156.0	157.2	160.0	168.7	176.5	170.6	162.4	160.4	160.4	160.0	160.4
42.5°	147.0	148.2	148.2	154.9	167.5	158.0	151.7	151.7	151.7	152.1	153.3
45°	138.7	139.1	138.7	143.4	155.3	147.4	143.0	144.2	145.0	145.8	146.6
47.5°	131.6	132.0	131.6	135.6	141.5	138.3	135.9	137.5	139.1	140.3	141.1
50°	125.3	124.9	125.7	128.1	130.8	131.6	130.0	132.4	133.2	134.8	136.7
52.5°	119.8	119.4	120.2	121.4	125.3	125.3	125.3	127.3	128.9	130.4	133.2
55°	113.5	113.9	115.1	116.6	121.8	121.0	121.4	122.9	124.5	126.9	128.5
57.5°	107.6	108.4	109.9	112.3	117.4	117.0	117.4	118.2	120.2	121.4	122.9
60°	100.9	102.5	104.4	106.0	111.1	110.7	112.7	114.3	115.5	115.5	116.2
62.5°	94.2	96.5	98.5	99.7	105.2	105.6	108.4	109.5	110.3	109.5	110.7
65°	87.5	91.0	91.8	93.4	98.9	99.3	102.5	105.2	104.4	103.6	105.6
67.5°	80.8	85.1	84.7	86.7	92.2	93.0	95.8	100.5	98.9	98.1	99.7
70°	73.3	76.4	76.8	78.0	85.5	84.3	88.7	93.0	91.8	92.2	92.2
72.5°	65.0	67.8	67.8	70.1	78.0	76.1	79.6	84.3	84.3	83.9	83.9
75°	55.2	56.7	58.3	61.9	70.1	67.8	70.1	74.5	75.3	74.5	74.5
77.5°	44.5	46.9	47.7	52.4	58.3	57.9	60.3	62.3	63.8	63.0	63.0
80°	31.5	33.9	37.0	42.2	45.7	46.9	48.1	49.7	50.4	50.4	51.2
82.5°	17.7	21.3	24.0	29.2	30.7	36.6	36.3	37.4	36.3	31.9	35.5
85°	3.9	7.5	10.6	13.4	15.4	21.3	22.5	25.2	20.9	19.3	19.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	6.3	8.7	7.5	6.3	6.3
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: P450928  
 CATALOG NUMBER: GALN-SA1D-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8	1919.8
2.5°	1675.5	1709.8	1751.2	1822.5	1872.6	1926.5	1980.9	2038.8	2054.2	2070.0
5°	1358.3	1425.7	1462.3	1558.1	1658.6	1786.3	1890.7	2005.0	2052.6	2063.7
7.5°	1028.9	1074.6	1170.7	1267.7	1392.2	1526.2	1686.2	1864.3	1919.8	1943.1
10°	815.7	878.0	962.3	1066.3	1175.5	1319.7	1500.2	1708.2	1787.0	1800.1
12.5°	694.3	763.7	855.5	965.4	1068.7	1177.4	1359.5	1574.3	1658.6	1686.6
15°	555.2	639.2	745.2	861.0	973.3	1092.3	1276.7	1519.1	1616.4	1649.1
17.5°	436.2	504.0	618.7	744.4	877.6	1028.1	1259.4	1545.5	1665.3	1695.6
20°	333.8	382.2	478.8	611.6	767.6	964.7	1263.7	1645.2	1788.6	1830.0
22.5°	288.4	313.3	372.0	498.5	673.0	909.5	1281.5	1781.9	1954.9	2023.9
25°	261.3	274.3	307.4	390.1	582.8	855.9	1322.1	1965.9	2187.4	2233.1
27.5°	238.0	247.5	268.0	327.5	500.8	806.2	1369.3	2170.1	2404.5	2472.7
30°	215.9	228.6	247.9	290.8	448.4	760.9	1428.8	2335.6	2587.4	2650.8
32.5°	199.0	211.6	229.3	265.2	403.9	713.2	1464.3	2481.0	2736.7	2790.7
35°	185.2	195.8	214.4	244.7	370.0	677.0	1457.2	2596.4	2881.3	2936.5
37.5°	175.4	184.4	202.9	225.4	344.4	639.2	1453.7	2748.9	3057.5	3121.3
40°	166.3	175.7	192.7	212.8	318.8	594.6	1455.6	2900.3	3245.1	3308.9
42.5°	159.2	169.8	183.6	209.2	292.4	558.8	1455.6	3031.9	3408.2	3469.7
45°	153.3	164.7	178.1	208.8	271.5	531.6	1445.8	3145.0	3538.2	3590.6
47.5°	148.2	160.8	180.1	201.8	266.4	511.9	1437.1	3235.6	3644.2	3693.5
50°	144.6	159.6	191.5	193.5	268.0	506.0	1478.9	3349.9	3737.6	3780.2
52.5°	141.9	160.0	191.1	181.3	265.2	509.9	1566.0	3528.4	3867.3	3870.4
55°	136.3	159.6	181.3	167.5	253.8	516.6	1677.9	3787.7	4070.2	4072.6
57.5°	130.8	155.3	168.3	155.7	230.5	516.6	1812.7	4033.2	4314.9	4316.9
60°	125.3	161.6	147.8	145.4	200.2	507.2	1954.9	4141.1	4391.8	4411.9
62.5°	119.8	162.7	132.0	136.3	178.1	484.3	2060.9	4021.7	4287.7	4316.5
65°	113.5	131.2	121.8	126.9	166.7	446.1	2027.4	3803.0	4092.3	4126.6
67.5°	106.0	111.1	110.7	117.0	162.7	389.7	1850.9	3526.4	3881.9	3879.9
70°	96.9	99.7	100.9	107.6	155.3	346.0	1542.3	3167.4	3600.9	3645.0
72.5°	87.5	89.8	91.0	96.9	147.8	321.2	1197.1	2672.9	3119.0	3187.9
75°	77.2	78.8	80.4	85.5	139.9	284.5	852.7	2040.4	2388.8	2497.1
77.5°	66.6	66.6	68.6	73.7	117.8	234.9	572.2	1431.2	1618.4	1729.1
80°	54.0	54.4	53.6	59.1	86.7	160.8	325.1	956.0	1077.0	1098.2
82.5°	41.4	40.2	40.6	43.3	64.6	109.5	173.4	593.8	605.3	593.4
85°	26.0	26.0	25.2	28.4	41.4	57.1	94.6	363.7	284.1	270.3
87.5°	10.6	8.7	9.9	11.4	19.7	23.2	37.0	74.9	28.8	26.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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