

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: P450695

Luminaire Tested: **GALN-SA1C-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4653 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

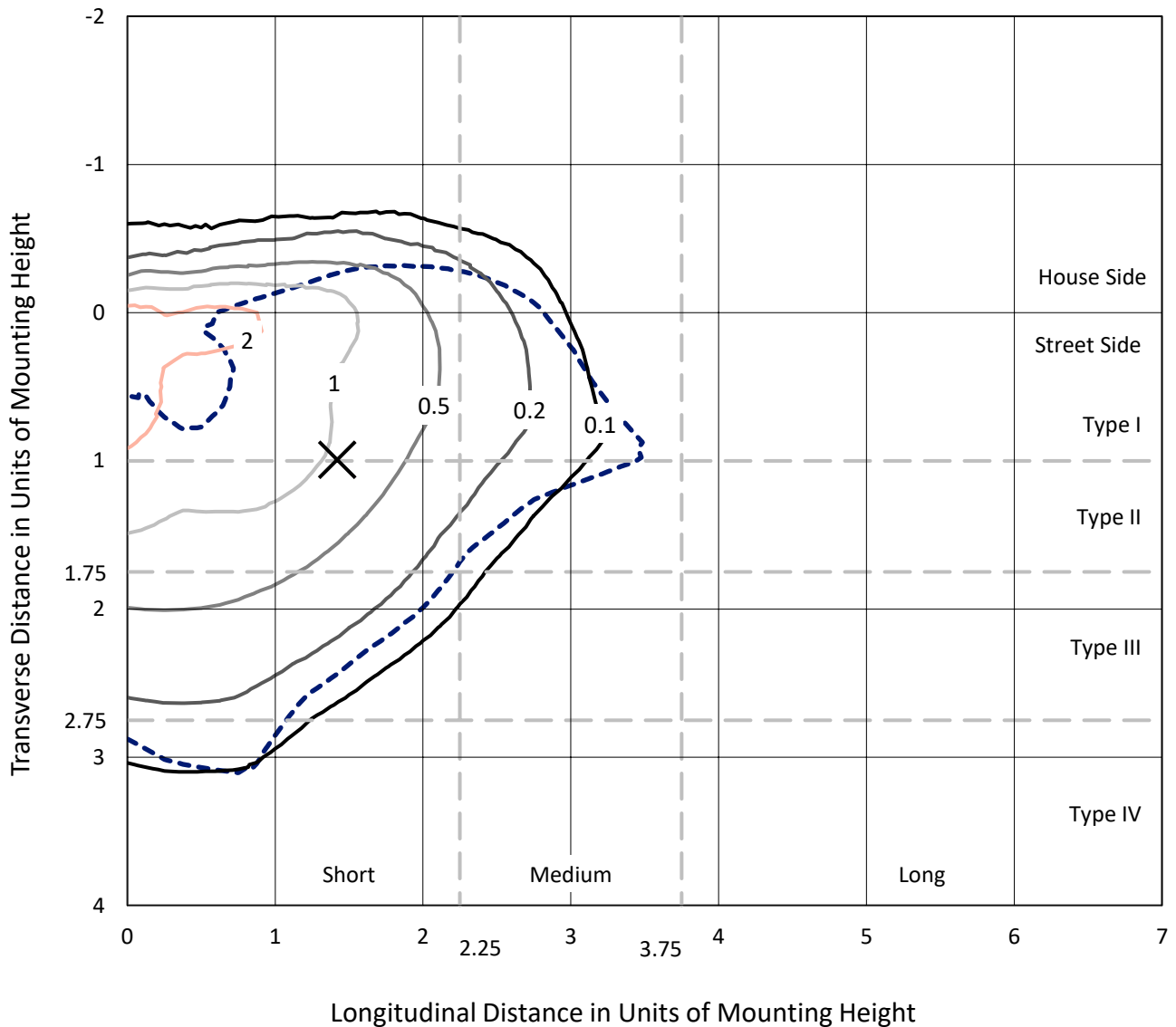
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450695
 CATALOG NUMBER: GALN-SA1C-730-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

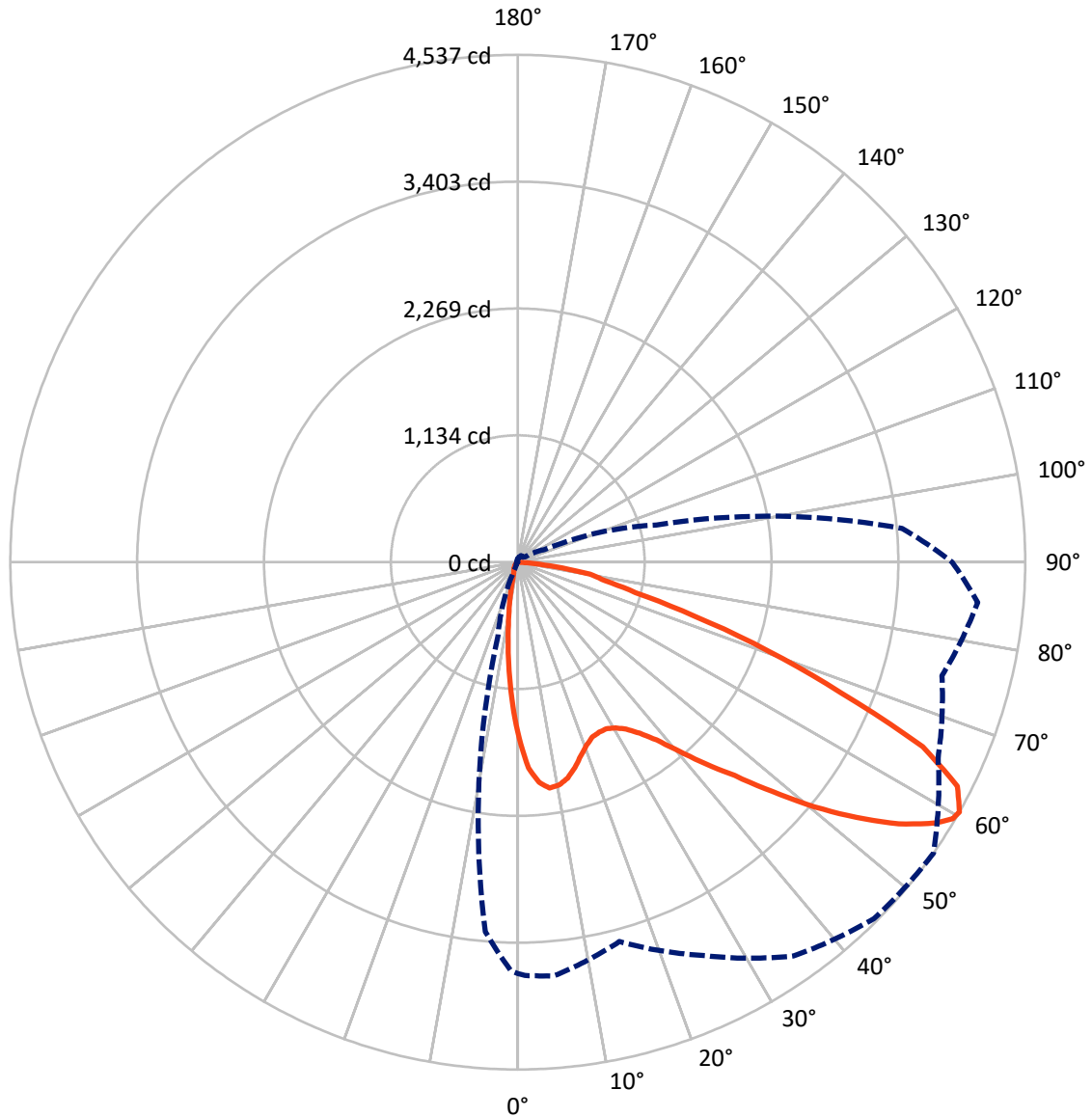
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

REPORT NUMBER: P450695
CATALOG NUMBER: GALN-SA1C-730-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P450695

CATALOG NUMBER: GALN-SA1C-730-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	690.5	0.0	690.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	3962.5	0.0	3962.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	4653.0	0.0	4653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	2.5
10°-20°	229.7	4.9
20°-30°	340.1	7.3
30°-40°	506.9	10.9
40°-50°	742.4	16.0
50°-60°	1071.7	23.0
60°-70°	1127.4	24.2
70°-80°	463.8	10.0
80°-90°	54.3	1.2
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°	4653.0	100.0
0°-180°	4653.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450695

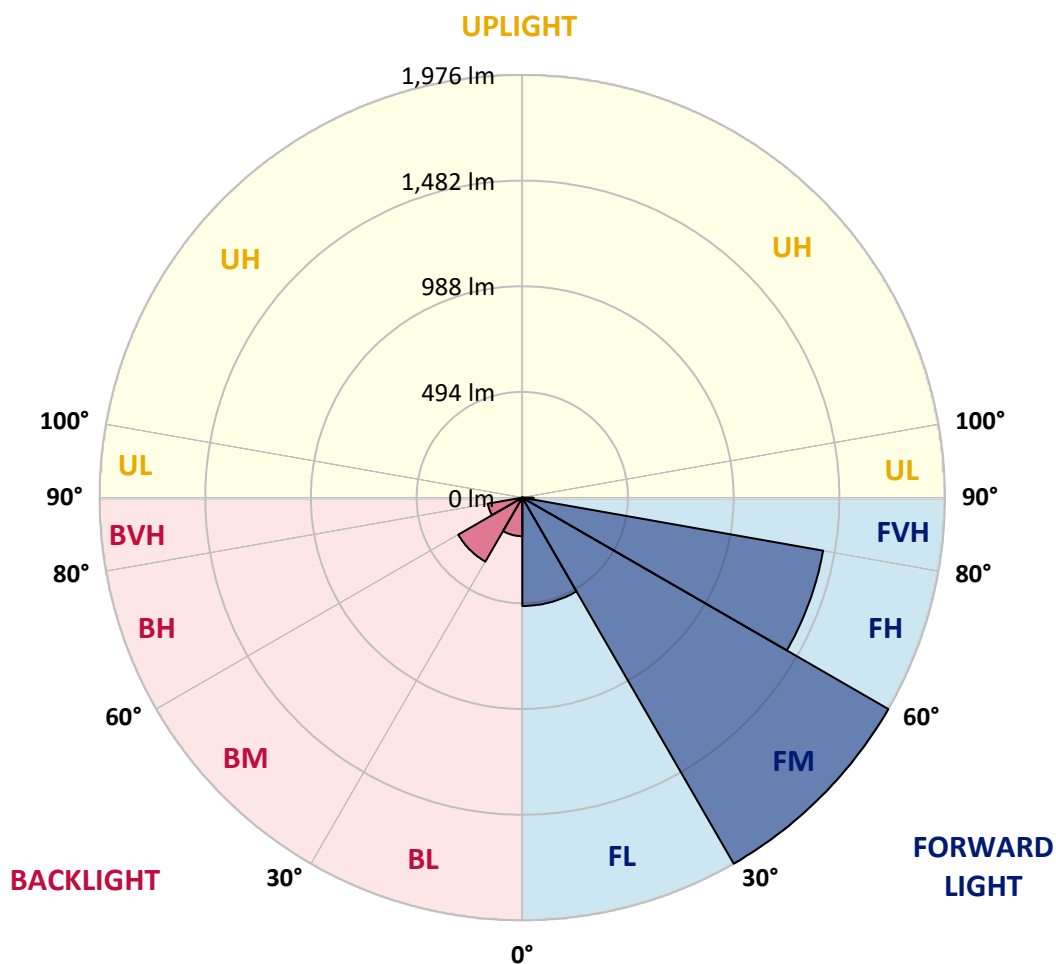
CATALOG NUMBER: GALN-SA1C-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.3	10.9			
FM	(30°-60°)	1975.7	42.5			
FH	(60°-80°)	1427.8	30.7			G1/1800
FVH	(80°-90°)	52.7	1.1			G1/100
BL	(0°-30°)	180.2	3.9	B1/500		
BM	(30°-60°)	345.3	7.4	B1/1000		
BH	(60°-80°)	163.4	3.5	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			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 Short





REPORT NUMBER: P450695

CATALOG NUMBER: GALN-SA1C-730-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5
2.5°	1721.3	1718.4	1743.8	1785.4	1827.3	1849.1	1844.8	1843.0	1808.3	1782.9	1729.5
5°	1717.7	1732.4	1777.8	1890.3	1975.5	2016.7	2028.9	1977.7	1910.0	1811.9	1690.8
7.5°	1614.9	1633.2	1707.3	1883.1	2034.6	2124.2	2121.0	2038.9	1899.3	1747.4	1574.8
10°	1487.4	1508.9	1595.9	1809.4	2006.0	2124.2	2130.6	2026.8	1853.1	1658.2	1476.6
12.5°	1397.5	1422.9	1519.3	1740.6	1932.2	2048.6	2056.1	1980.9	1818.3	1623.8	1423.3
15°	1367.1	1391.0	1488.8	1705.9	1853.8	1916.4	1914.7	1906.8	1804.7	1632.1	1426.1
17.5°	1419.3	1439.0	1549.3	1721.6	1780.4	1773.9	1783.2	1821.2	1807.6	1701.2	1516.4
20°	1554.4	1574.4	1693.0	1770.0	1724.1	1683.3	1687.6	1751.0	1834.1	1831.2	1657.5
22.5°	1740.2	1774.3	1881.7	1863.8	1716.6	1627.1	1618.1	1700.5	1879.2	1980.9	1848.0
25°	1975.5	2009.9	2093.7	2013.5	1753.5	1613.8	1605.6	1685.1	1934.0	2127.0	2062.6
27.5°	2173.2	2199.4	2282.8	2159.3	1807.9	1619.5	1605.9	1687.2	1978.4	2251.3	2243.4
30°	2331.5	2350.9	2399.9	2227.3	1854.8	1644.6	1628.9	1718.8	1998.1	2311.8	2389.9
32.5°	2459.0	2491.6	2507.0	2300.0	1922.2	1691.9	1665.0	1779.3	2046.1	2386.7	2543.6
35°	2604.8	2642.4	2622.7	2369.5	2011.0	1765.7	1732.7	1877.4	2118.8	2455.8	2721.9
37.5°	2789.6	2833.0	2755.9	2442.6	2104.8	1876.7	1861.3	2015.3	2229.1	2554.7	2913.2
40°	2980.9	3005.9	2885.2	2531.4	2220.2	2038.2	2052.9	2220.2	2373.4	2673.2	3116.6
42.5°	3130.2	3153.9	3018.1	2605.9	2338.0	2229.8	2291.1	2467.3	2538.9	2794.6	3268.5
45°	3244.5	3264.5	3110.2	2687.2	2497.0	2507.4	2623.1	2721.9	2704.7	2868.8	3385.6
47.5°	3333.3	3350.5	3181.1	2774.6	2735.2	2846.9	3023.8	3065.7	2876.6	2949.0	3491.6
50°	3369.8	3374.8	3203.3	2886.0	3005.6	3279.6	3464.0	3438.6	3073.6	3038.2	3604.4
52.5°	3417.4	3416.4	3266.7	2992.0	3259.9	3666.4	3850.4	3792.8	3296.4	3171.8	3731.2
55°	3542.4	3543.9	3402.4	3142.4	3476.5	3978.7	4175.6	4133.7	3531.3	3397.4	3879.1
57.5°	3694.3	3699.7	3595.4	3318.2	3683.6	4205.0	4418.5	4402.4	3849.0	3648.5	4018.8
59°	3714.0	3724.7	3686.8	3442.2	3806.4	4274.5	4501.6	4517.3	4019.1	3813.9	4094.3
60°	3678.2	3696.1	3713.3	3512.4	3878.4	4299.6	4506.6	4537.4	4147.0	3926.4	4128.7
62.5°	3522.0	3550.3	3636.6	3728.3	3968.3	4221.5	4346.5	4411.0	4305.3	4221.8	4132.0
65°	3317.5	3332.2	3456.8	3766.6	3793.9	3856.9	3895.6	3978.3	4115.1	4335.7	3984.0
67.5°	2982.3	3025.6	3178.2	3544.2	3279.2	3204.7	3195.0	3112.7	3467.9	4064.3	3619.4
70°	2463.7	2483.0	2671.1	2905.7	2474.8	2360.2	2406.0	2375.2	2688.3	3498.7	2913.2
72.5°	1863.1	1906.8	2090.5	2316.1	1684.0	1535.4	1661.8	1650.3	2019.2	2811.8	2001.3
75°	1325.5	1353.8	1588.0	1812.6	1179.4	999.2	1044.7	1087.3	1409.7	2220.2	1182.6
77.5°	910.8	935.1	1111.0	1198.7	860.3	824.1	753.9	795.1	923.7	1317.3	643.6
80°	549.4	548.3	664.0	685.5	599.2	695.9	583.8	655.4	558.4	563.7	249.3
82.5°	356.7	353.1	406.1	442.7	333.4	350.6	235.3	339.2	363.9	157.2	78.8
85°	159.7	166.5	195.2	257.5	146.1	77.7	48.0	104.2	155.1	79.2	0.0
87.5°	16.5	12.9	34.4	62.7	20.1	2.1	7.2	3.6	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: P450695

CATALOG NUMBER: GALN-SA1C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5
2.5°	1704.8	1684.0	1622.1	1564.0	1514.2	1453.4	1414.0	1352.0	1314.4	1302.9	1304.7
5°	1636.4	1576.6	1458.7	1364.5	1259.6	1199.8	1108.8	1021.4	974.2	956.6	948.7
7.5°	1493.1	1429.0	1286.8	1138.9	1026.5	921.5	853.8	776.8	724.2	680.8	673.3
10°	1386.7	1302.6	1126.4	967.4	878.5	799.7	732.1	655.1	593.1	543.7	530.1
12.5°	1323.0	1228.8	1032.2	899.0	814.8	733.8	645.7	556.6	493.2	439.8	415.1
15°	1311.5	1202.3	1005.7	849.9	746.0	648.2	531.1	434.8	369.6	319.1	303.7
17.5°	1380.7	1249.9	1001.7	798.7	656.1	517.5	395.8	315.9	242.5	214.2	203.1
20°	1503.9	1334.1	1001.4	739.2	563.7	398.6	277.9	205.9	176.2	162.6	156.2
22.5°	1671.8	1448.7	1020.4	688.0	467.7	294.0	198.4	164.0	146.8	135.7	133.2
25°	1877.1	1618.5	1066.9	653.3	394.3	230.6	163.7	140.4	126.1	121.1	118.9
27.5°	2059.4	1781.1	1118.1	617.4	341.7	204.1	151.9	128.6	117.1	113.2	110.0
30°	2216.6	1928.6	1142.9	570.2	299.4	187.0	154.0	137.5	122.5	110.7	105.3
32.5°	2347.7	2041.8	1159.0	527.2	263.6	152.9	121.8	106.4	99.6	95.3	91.7
35°	2511.7	2164.3	1149.3	502.8	245.3	139.3	111.0	91.7	80.2	71.6	68.0
37.5°	2683.6	2286.8	1132.5	482.8	237.1	129.3	105.7	87.0	74.5	65.5	60.9
40°	2861.6	2400.3	1112.8	464.2	229.6	122.8	102.4	83.1	70.6	60.9	55.9
42.5°	3024.6	2511.0	1104.9	452.0	217.4	123.9	99.9	81.3	66.6	56.6	52.3
45°	3156.4	2615.9	1115.6	445.5	204.1	122.1	100.6	79.2	63.4	53.7	49.4
47.5°	3297.1	2764.2	1150.4	439.1	191.3	113.5	106.0	78.8	62.0	51.9	47.3
50°	3460.8	2954.0	1229.9	423.3	175.5	104.2	112.8	78.4	60.2	49.8	45.1
52.5°	3678.9	3169.6	1311.9	395.8	152.6	95.3	107.8	77.4	56.6	47.3	42.6
55°	3874.8	3396.7	1381.4	363.2	123.6	82.4	97.1	72.7	50.5	43.0	38.7
57.5°	3955.7	3524.9	1379.2	318.0	98.8	72.3	79.9	66.6	44.1	38.0	34.4
59°	3926.0	3508.8	1333.0	284.7	90.3	67.0	66.3	65.9	41.2	34.4	31.5
60°	3884.1	3450.0	1283.2	268.3	84.9	63.4	60.9	65.2	38.7	32.2	29.4
62.5°	3723.7	3206.5	1118.1	240.3	77.7	53.7	48.7	55.2	34.4	27.9	25.4
65°	3491.2	2832.2	946.6	232.4	75.6	44.4	40.5	39.4	29.4	23.6	21.5
67.5°	3037.8	2396.7	766.8	227.1	76.3	37.2	35.5	29.7	24.4	19.7	18.3
70°	2432.2	1868.8	627.8	221.0	77.0	30.4	29.7	23.6	19.7	16.5	15.0
72.5°	1477.7	1107.8	494.2	192.0	74.9	24.4	26.5	17.9	14.3	11.8	11.1
75°	913.6	758.2	306.6	149.3	49.4	17.9	18.6	11.1	9.7	7.5	7.5
77.5°	529.3	478.8	109.6	53.7	21.8	10.7	8.2	5.7	5.4	3.2	3.2
80°	219.5	175.9	38.0	18.3	11.8	5.0	1.8	0.4	0.0	0.0	0.0
82.5°	64.1	56.9	10.4	8.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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: P450695
 CATALOG NUMBER: GALN-SA1C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5
2.5°	1274.3	1262.5	1257.1	1275.4	1258.5	1280.0	1263.5	1270.7	1291.8	1301.2	1325.1
5°	953.7	941.6	935.8	963.4	962.0	975.6	974.2	986.7	997.4	973.4	998.2
7.5°	664.4	656.1	669.7	691.2	714.1	706.6	706.6	689.8	695.5	691.9	690.9
10°	505.3	477.1	469.9	469.2	477.8	479.6	469.9	446.6	455.2	457.7	472.8
12.5°	397.5	375.7	342.4	327.3	323.4	326.6	294.8	274.3	284.0	278.3	293.0
15°	285.1	267.2	247.5	230.6	226.0	219.5	184.8	160.5	157.6	158.7	161.2
17.5°	203.4	191.3	191.3	173.3	163.7	144.3	126.8	116.0	115.0	116.0	117.8
20°	150.1	143.6	142.9	138.2	127.5	114.6	102.4	100.3	99.6	101.4	102.1
22.5°	129.3	122.5	116.8	116.4	106.4	95.6	89.9	87.0	87.4	88.1	89.9
25°	115.7	108.5	102.4	98.8	91.7	84.2	78.8	77.4	77.4	78.4	78.8
27.5°	106.0	97.1	91.7	86.7	80.2	73.8	69.1	68.0	67.3	68.0	69.8
30°	99.2	90.3	83.4	75.9	70.9	64.8	60.9	59.5	59.1	59.5	60.9
32.5°	84.9	79.5	74.1	67.3	61.2	57.3	53.0	50.5	50.5	51.2	52.6
35°	64.1	61.2	60.9	59.1	54.1	49.8	44.8	42.3	42.3	43.7	44.4
37.5°	56.6	51.2	50.5	49.8	47.6	41.9	37.2	35.1	34.7	35.8	37.2
40°	51.6	45.5	42.3	41.5	41.9	35.5	30.4	28.3	28.3	28.7	30.1
42.5°	47.6	40.5	34.7	34.0	35.5	29.7	24.7	22.6	22.6	22.6	24.4
45°	44.4	36.2	29.4	25.8	27.9	24.4	20.1	17.9	17.2	17.9	18.6
47.5°	42.3	32.9	25.8	20.8	20.8	19.3	16.1	13.6	12.9	13.3	14.3
50°	40.5	30.1	21.8	16.8	15.0	15.4	12.2	10.4	9.7	9.7	10.7
52.5°	37.6	27.2	19.0	14.3	11.5	10.4	9.0	7.5	7.2	7.5	8.2
55°	34.0	24.7	16.5	11.8	9.0	7.2	6.4	5.4	5.0	5.4	6.4
57.5°	30.1	20.8	13.3	9.3	6.1	4.7	4.3	3.6	2.9	3.2	3.9
59°	27.6	18.6	11.5	7.5	4.7	3.2	3.2	2.5	1.8	2.1	3.2
60°	26.5	17.2	9.7	6.4	3.9	2.5	2.5	1.8	1.1	1.4	2.5
62.5°	22.6	14.3	7.5	3.9	1.8	0.4	1.1	0.4	0.0	0.4	1.1
65°	19.0	11.5	5.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.4
67.5°	15.8	8.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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: P450695
 CATALOG NUMBER: GALN-SA1C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5
2.5°	1326.6	1377.8	1409.3	1468.8	1529.6	1576.6	1635.3	1688.0	1709.8	1721.3
5°	1023.2	1094.5	1155.0	1245.6	1329.8	1432.2	1536.1	1658.6	1705.5	1717.7
7.5°	718.1	790.8	854.2	959.1	1079.1	1216.3	1371.7	1527.1	1595.5	1614.9
10°	518.6	596.3	673.7	778.6	890.7	1039.3	1201.2	1393.6	1472.3	1487.4
12.5°	327.3	410.8	536.5	666.2	784.7	904.3	1073.7	1282.9	1369.9	1397.5
15°	189.8	252.1	347.0	516.1	666.9	825.2	1010.0	1241.3	1338.8	1367.1
17.5°	127.1	148.6	213.8	343.1	542.2	752.1	993.9	1275.4	1383.2	1419.3
20°	107.1	116.8	139.7	209.2	417.6	686.9	998.2	1367.8	1509.2	1554.4
22.5°	94.2	103.1	117.8	150.4	291.5	606.0	1018.6	1499.9	1682.6	1740.2
25°	83.1	92.0	104.9	124.6	195.9	512.5	1063.3	1693.3	1912.2	1975.5
27.5°	73.8	82.0	93.1	110.0	150.8	408.3	1103.1	1881.7	2121.7	2173.2
30°	65.2	72.0	82.7	95.6	125.4	314.8	1123.2	2046.5	2274.2	2331.5
32.5°	56.6	63.0	73.4	83.8	103.1	240.0	1109.2	2167.5	2422.5	2459.0
35°	48.3	55.2	63.8	73.4	89.2	193.8	1039.3	2303.6	2576.2	2604.8
37.5°	41.5	47.3	56.2	63.8	80.6	155.1	954.8	2426.1	2748.4	2789.6
40°	35.1	40.8	49.8	56.6	74.1	122.1	878.5	2562.2	2930.0	2980.9
42.5°	28.7	35.5	43.3	54.4	63.8	93.1	786.1	2672.5	3066.5	3130.2
45°	22.9	30.4	39.0	54.1	55.5	70.9	697.0	2758.5	3187.2	3244.5
47.5°	18.3	25.8	37.6	50.5	45.5	56.2	646.1	2848.4	3287.4	3333.3
50°	14.7	21.5	39.4	44.4	38.0	47.6	644.7	2948.6	3339.4	3369.8
52.5°	11.8	17.5	33.3	34.0	32.2	41.9	683.3	3061.4	3392.4	3417.4
55°	10.0	14.7	21.8	25.1	29.0	38.0	712.4	3235.2	3518.8	3542.4
57.5°	7.9	12.5	16.8	20.1	25.8	34.7	716.3	3369.1	3678.9	3694.3
59°	6.8	10.7	15.0	17.9	23.6	32.6	700.2	3377.3	3689.3	3714.0
60°	5.7	9.7	13.3	16.8	21.8	30.8	682.6	3317.5	3650.6	3678.2
62.5°	4.3	7.5	9.7	13.6	17.9	26.5	599.5	3108.7	3502.7	3522.0
65°	2.9	5.4	7.2	10.0	14.0	22.9	488.5	2838.0	3274.2	3317.5
67.5°	1.8	3.9	5.7	7.5	11.5	19.3	348.1	2433.6	2954.4	2982.3
70°	1.1	2.5	4.3	6.1	9.0	15.4	206.7	1923.6	2458.0	2463.7
72.5°	0.7	1.8	2.9	4.3	7.2	14.0	100.3	1253.9	1794.7	1863.1
75°	0.4	1.1	1.8	3.2	5.7	11.5	48.0	837.7	1305.8	1325.5
77.5°	0.0	0.4	1.1	2.1	4.3	9.0	27.9	550.1	890.4	910.8
80°	0.0	0.0	0.7	1.8	3.2	5.7	16.8	324.5	539.4	549.4
82.5°	0.0	0.0	0.4	1.4	2.1	4.3	8.6	142.5	353.1	356.7
85°	0.0	0.0	0.4	1.4	1.8	2.9	3.2	19.3	156.9	159.7
87.5°	0.0	0.0	0.4	1.8	1.8	1.8	1.8	1.1	13.3	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)