

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: P651683

Luminaire Tested: **GALN-SA1A-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651683  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-840-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2151.3 lumens  
Efficiency: N/A  
Efficacy: 65.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G0

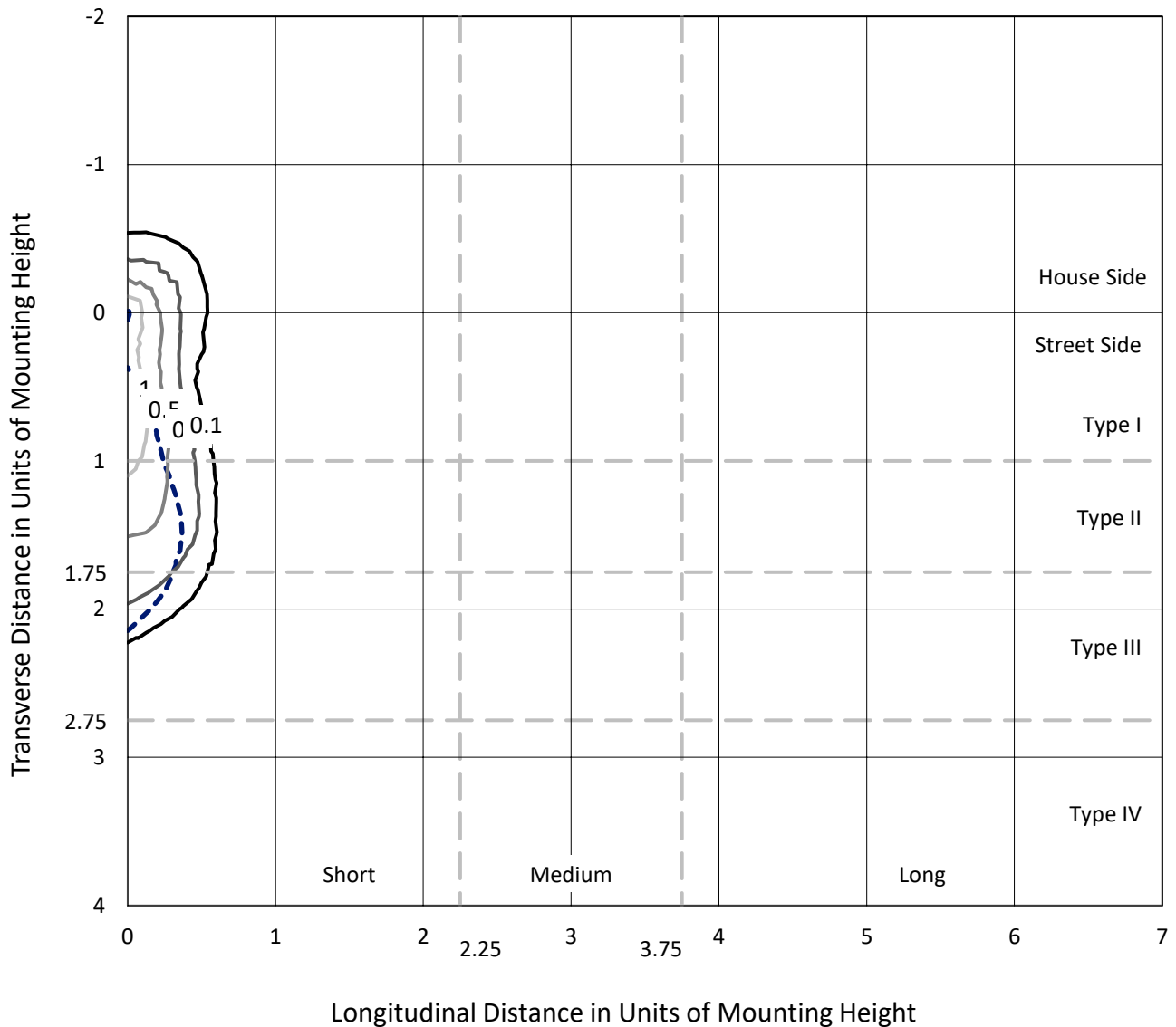
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651683  
 CATALOG NUMBER: GALN-SA1A-840-U-SLR-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

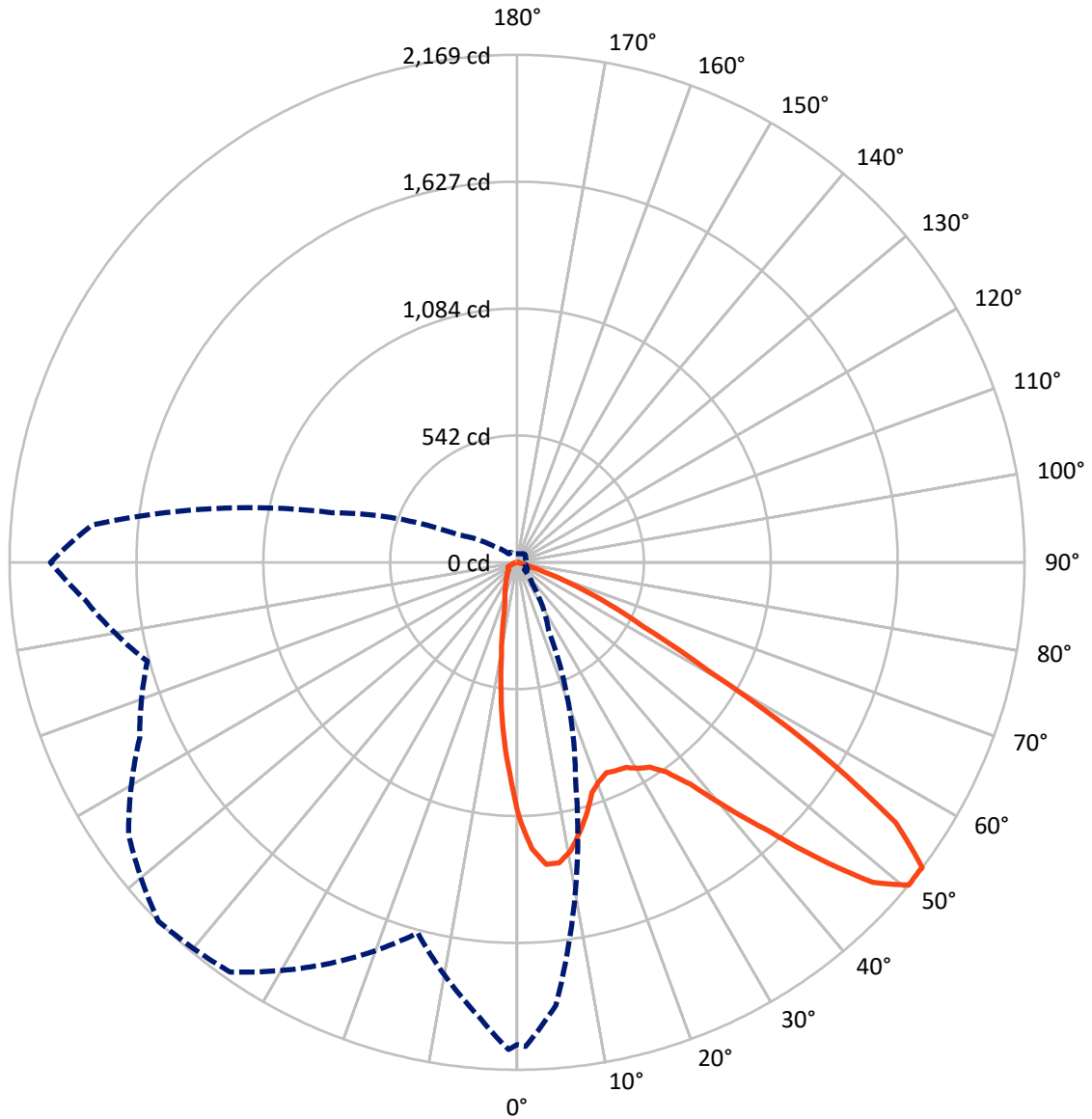
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P651683  
CATALOG NUMBER: GALN-SA1A-840-U-SLR-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P651683  
 CATALOG NUMBER: GALN-SA1A-840-U-SLR-GRSBK

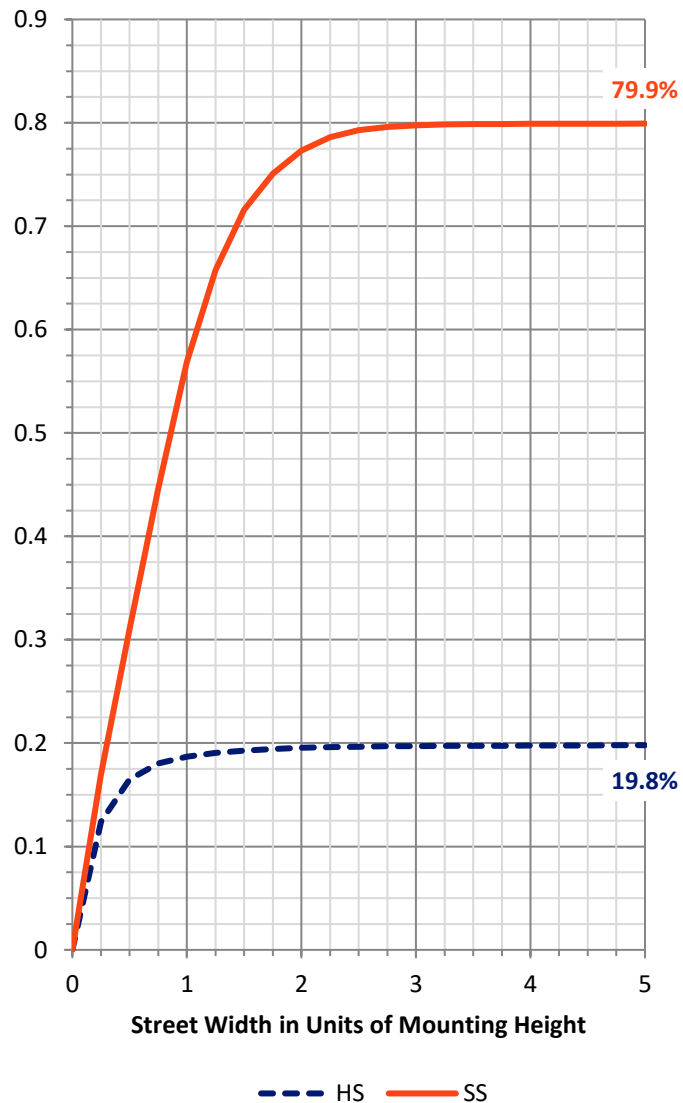
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	430.9	0.0	430.9
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	1720.4	0.0	1720.4
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	2151.3	0.0	2151.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.5	3.7
10°-20°	158.0	7.3
20°-30°	237.4	11.0
30°-40°	356.4	16.6
40°-50°	500.9	23.3
50°-60°	540.3	25.1
60°-70°	250.8	11.7
70°-80°	23.6	1.1
80°-90°	4.3	0.2
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°	2151.3	100.0
0°-180°	2151.3	100.0

**Coefficient of Utilization**

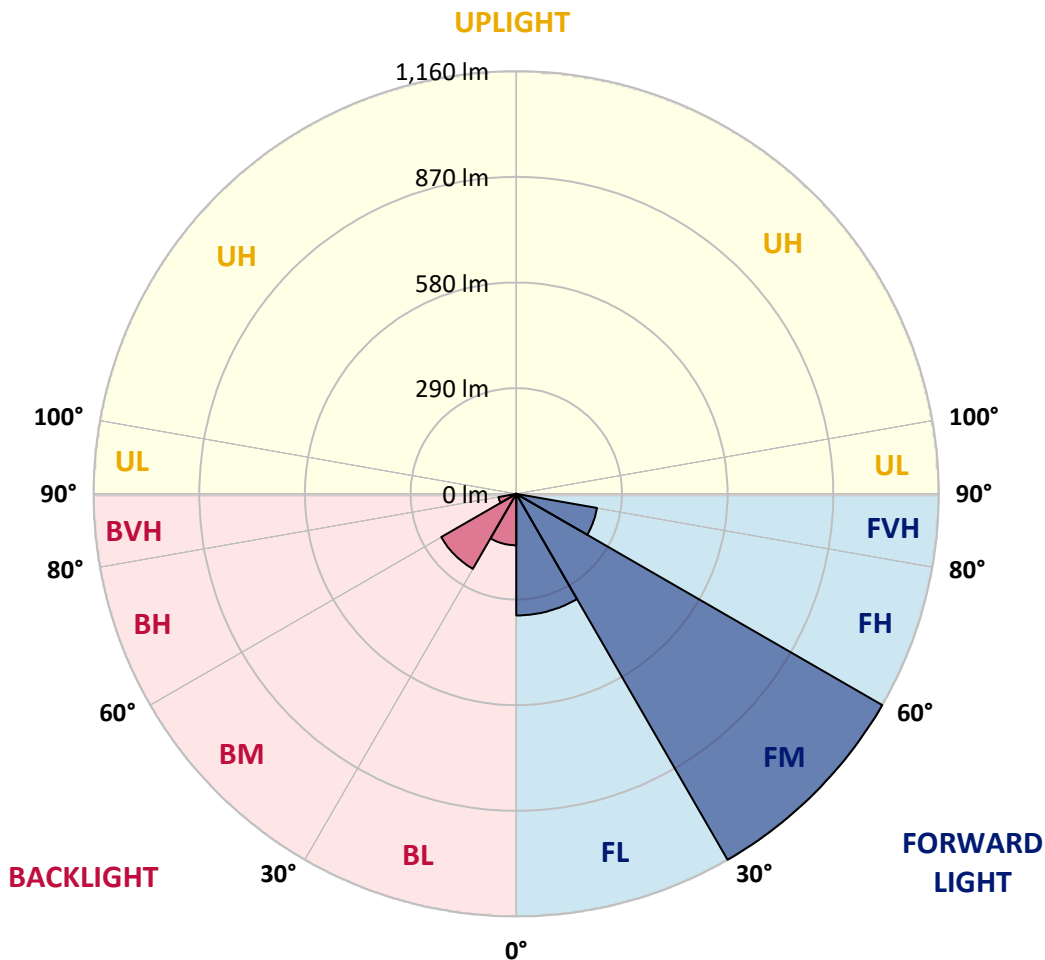


REPORT NUMBER: P651683  
 CATALOG NUMBER: GALN-SA1A-840-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	333.8	15.5			
FM (30°-60°)	1159.7	53.9			
FH (60°-80°)	225.0	10.5			G0/660
FVH (80°-90°)	2.0	0.1			G0/10
BL (0°-30°)	141.2	6.6	B1/500		
BM (30°-60°)	237.8	11.1	B1/1000		
BH (60°-80°)	49.5	2.3	B0/110		G0/110
BVH (80°-90°)	2.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type III Short





REPORT NUMBER: P651683

CATALOG NUMBER: GALN-SA1A-840-U-SLR-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	1134.1	1116.6	1094.4	1076.1	1048.7	993.6	978.7	960.8	945.9	925.8	897.6
5°	1031.2	1025.7	1015.4	946.3	896.3	829.7	775.1	752.1	721.7	697.0	679.1
7.5°	952.7	930.5	898.0	828.5	748.7	677.3	616.8	581.3	541.2	527.6	503.3
10°	868.6	873.7	825.9	728.1	631.7	574.1	536.6	502.4	466.1	442.2	407.6
12.5°	841.7	825.0	788.4	667.6	585.2	531.4	485.8	443.5	405.0	366.7	333.4
15°	859.2	833.6	782.4	654.7	549.3	482.3	425.1	367.9	332.5	283.4	248.9
17.5°	921.9	901.5	832.8	668.4	531.0	435.4	350.4	291.5	237.3	192.9	175.4
20°	1026.5	997.5	911.3	685.9	503.7	378.6	284.3	211.7	160.5	141.7	131.9
22.5°	1129.0	1113.1	1004.3	719.6	479.3	328.2	213.4	142.5	119.9	116.6	110.1
25°	1324.0	1276.6	1146.5	780.7	460.5	280.9	160.9	114.8	101.6	99.0	99.9
27.5°	1440.1	1400.4	1277.9	821.2	439.6	244.6	136.2	105.5	96.5	90.9	88.8
30°	1551.5	1505.4	1343.2	845.1	394.8	206.1	120.8	101.2	99.0	90.9	88.4
32.5°	1637.3	1592.1	1437.5	880.9	376.4	181.4	99.5	79.0	73.4	72.6	80.2
35°	1768.8	1720.5	1518.3	900.6	362.4	168.6	86.2	70.4	64.0	61.5	61.9
37.5°	1891.2	1858.4	1592.9	908.3	347.4	164.8	77.3	63.2	57.6	55.9	55.5
40°	1993.7	1920.3	1663.8	916.4	341.0	157.5	71.7	57.6	53.7	51.2	51.2
42.5°	2040.7	1966.0	1743.1	911.7	339.3	146.0	71.7	52.9	50.0	47.3	46.9
45°	2030.4	2000.2	1778.5	909.5	339.3	134.5	65.3	51.6	47.3	44.0	43.1
47.5°	2056.9	2017.2	1823.0	918.5	332.5	126.3	55.1	54.2	44.8	40.5	39.7
50°	2061.5	2069.3	1900.2	965.0	317.6	116.1	43.1	53.3	43.1	36.7	35.8
52°	2092.3	2044.5	1923.7	989.8	301.8	108.4	36.2	45.7	41.4	34.1	33.3
52.5°	2050.0	2081.2	1929.3	998.8	303.4	103.3	35.0	44.8	40.5	34.1	32.0
55°	2002.7	2032.5	1906.6	1017.9	278.3	81.1	27.3	32.5	36.7	29.9	28.6
57.5°	1740.6	1770.9	1656.9	932.2	226.6	57.2	22.6	24.3	32.5	27.8	26.5
60°	1547.3	1525.5	1390.6	777.7	160.9	32.0	17.9	18.8	35.4	25.7	25.1
62.5°	1414.1	1367.6	1162.3	600.6	98.1	21.4	14.0	14.5	27.3	23.9	23.9
65°	1046.1	994.1	772.1	363.2	48.3	15.0	10.7	11.5	17.1	20.5	20.5
67.5°	597.1	577.1	373.1	163.9	20.1	9.4	8.1	9.0	13.2	16.7	15.8
70°	274.4	246.2	143.4	34.6	9.4	6.4	6.4	7.2	10.7	12.4	11.5
72.5°	80.2	75.9	35.0	5.6	3.9	3.9	4.3	5.6	8.1	9.4	8.6
75°	6.0	3.9	2.5	1.7	1.7	2.5	3.4	5.6	8.1	9.0	7.2
77.5°	0.4	0.8	0.4	0.4	1.3	2.5	3.9	6.8	10.7	11.1	8.1
80°	0.4	0.4	0.0	0.4	1.3	2.5	4.3	7.7	11.9	12.8	6.8
82.5°	0.0	0.0	0.0	0.4	1.7	3.4	5.1	8.1	11.1	13.6	7.2
85°	0.0	0.0	0.0	0.4	2.5	4.7	6.0	2.1	1.3	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: P651683

CATALOG NUMBER: GALN-SA1A-840-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	917.7	906.6	902.3	906.2	904.8	903.6	927.0	921.9	921.1	928.8	927.0
5°	688.9	669.3	723.0	701.3	723.9	737.6	740.1	741.4	757.2	740.6	762.3
7.5°	490.9	495.9	495.5	510.1	536.1	559.2	572.8	562.1	561.3	559.2	549.8
10°	392.2	383.3	381.6	378.2	386.3	406.0	422.5	409.3	399.9	412.8	408.9
12.5°	320.5	308.1	301.3	287.7	288.1	301.3	301.3	301.3	310.7	318.0	323.5
15°	245.8	235.6	235.6	221.9	219.0	219.4	226.2	227.1	242.0	246.2	248.4
17.5°	172.0	166.4	172.8	178.4	175.0	175.9	178.4	179.3	181.4	179.7	183.9
20°	132.3	131.4	133.1	143.0	150.2	154.5	151.5	147.3	144.7	138.7	138.7
22.5°	112.3	114.0	117.0	125.1	134.5	137.0	133.6	123.8	116.1	115.2	115.6
25°	99.9	101.6	106.3	111.4	116.6	120.8	117.4	110.1	105.9	102.0	102.0
27.5°	92.2	93.0	95.6	99.5	103.7	107.1	105.9	102.0	97.3	95.6	91.8
30°	86.2	87.5	90.5	91.3	95.2	96.9	94.8	93.9	90.9	88.8	87.5
32.5°	83.3	82.8	84.9	85.8	86.2	87.5	84.9	86.2	85.8	82.4	81.1
35°	62.7	66.2	71.7	76.4	77.7	79.4	79.0	77.3	72.6	68.7	64.0
37.5°	56.3	58.4	61.5	65.3	70.4	72.6	71.7	67.4	61.9	59.3	58.4
40°	52.1	53.3	55.9	58.4	63.6	67.4	64.4	60.6	56.3	54.2	52.9
42.5°	48.3	48.7	50.0	52.5	56.3	62.3	57.2	52.1	50.4	49.1	48.3
45°	44.0	44.0	45.7	46.9	51.2	56.8	51.6	46.9	46.1	45.2	44.8
47.5°	40.5	41.0	41.8	43.6	46.9	50.8	47.3	43.6	41.4	41.0	40.1
50°	36.2	36.7	38.4	40.1	44.4	46.5	44.4	40.1	38.0	36.7	36.7
52°	32.9	34.1	35.8	39.3	42.2	45.7	43.1	38.4	35.8	34.6	33.7
52.5°	32.5	33.3	35.0	38.9	42.2	45.2	42.7	38.0	35.0	34.1	33.3
55°	29.0	30.3	33.3	38.0	41.8	45.2	41.8	37.6	33.3	31.1	30.3
57.5°	27.8	28.6	32.5	38.4	41.4	45.2	41.8	37.6	33.3	29.4	28.6
60°	26.5	28.2	32.5	37.2	41.0	45.7	42.2	37.2	32.5	27.8	27.8
62.5°	25.1	26.5	32.0	36.2	39.3	44.0	40.5	36.2	31.1	26.5	26.1
65°	21.8	23.9	28.2	30.3	33.7	38.0	34.6	31.6	27.3	23.5	23.0
67.5°	16.7	17.5	20.9	23.5	25.7	29.4	27.8	23.9	20.9	17.9	17.9
70°	11.5	12.4	15.0	16.2	18.3	20.5	19.2	16.2	14.0	12.4	11.9
72.5°	8.1	8.6	9.4	10.3	11.1	11.9	11.5	9.4	8.1	7.7	7.2
75°	6.4	7.2	7.7	7.2	6.8	6.4	6.4	5.6	4.7	4.3	4.3
77.5°	6.4	6.8	6.4	5.6	4.7	4.3	3.9	3.4	2.5	2.1	2.5
80°	5.6	5.6	5.6	4.7	4.3	3.9	3.4	3.0	2.5	2.1	2.1
82.5°	6.0	6.0	5.6	4.7	4.7	3.9	3.9	3.4	3.0	2.1	2.1
85°	0.0	0.0	0.0	0.8	2.1	3.9	3.9	3.4	3.0	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.4	0.8	1.7	2.1	2.5	2.5	2.5
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: P651683

CATALOG NUMBER: GALN-SA1A-840-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	942.4	958.7	989.4	1020.1	1038.9	1061.1	1101.2	1122.6	1150.3	1163.9	1190.9
5°	759.3	797.8	811.4	846.4	884.0	921.5	981.3	1047.0	1101.6	1139.2	1187.8
7.5°	554.1	563.0	615.9	639.4	700.9	769.2	850.7	933.5	1002.6	1064.1	1101.2
10°	415.3	448.2	481.5	526.3	575.7	646.2	724.4	815.7	905.3	966.7	1013.7
12.5°	333.8	359.8	404.2	452.5	513.5	560.0	638.6	729.0	845.1	905.3	967.2
15°	252.7	285.9	336.3	386.3	450.7	499.8	579.2	693.2	842.6	925.4	978.7
17.5°	187.4	210.0	255.2	311.2	376.9	446.1	553.1	689.3	871.2	969.8	1024.8
20°	143.4	151.1	179.7	229.6	300.9	391.4	510.9	705.9	955.6	1077.7	1133.7
22.5°	116.1	119.5	130.6	165.2	234.3	343.6	490.9	717.5	1050.8	1207.1	1281.8
25°	101.2	100.3	107.6	122.5	183.1	298.8	465.2	761.0	1167.4	1359.1	1426.0
27.5°	92.2	92.2	95.6	106.3	152.0	269.8	449.0	792.2	1284.7	1492.6	1528.9
30°	87.5	88.4	98.1	101.6	126.3	235.1	422.1	823.8	1397.0	1578.0	1627.9
32.5°	81.1	77.7	75.5	84.1	106.3	204.0	395.3	837.0	1487.9	1682.6	1725.2
35°	62.3	60.6	63.2	69.6	91.3	177.5	365.3	851.9	1592.5	1803.8	1812.3
37.5°	56.3	55.9	57.6	63.2	76.9	154.5	344.1	848.1	1672.3	1904.1	1881.1
40°	52.1	52.1	53.3	58.0	68.7	138.3	321.9	844.7	1749.5	2016.7	1949.4
42.5°	48.7	48.7	50.8	53.7	65.3	127.6	305.2	840.0	1814.5	2085.9	1989.5
45°	44.0	45.2	48.7	51.6	66.2	120.3	292.8	822.1	1836.7	2085.0	1970.2
47.5°	40.5	42.2	45.7	50.0	59.8	118.2	284.3	806.3	1828.9	2033.8	1910.1
50°	36.7	38.9	43.6	50.8	50.8	114.0	275.3	820.4	1823.4	1994.1	1852.4
52°	34.1	35.8	41.8	49.5	44.4	105.0	269.8	847.6	1846.0	1989.0	1826.8
52.5°	33.7	35.0	40.5	48.7	42.2	103.3	265.9	854.1	1853.3	1976.2	1844.3
55°	29.9	31.6	37.2	38.0	34.6	84.9	253.6	868.6	1817.4	1951.0	1827.7
57.5°	28.2	29.0	32.9	31.1	29.9	64.0	218.1	846.0	1614.3	1732.9	1700.5
60°	26.1	26.9	30.7	24.3	25.1	44.8	163.9	734.5	1296.2	1443.9	1502.4
62.5°	25.1	24.7	29.0	19.6	21.4	32.5	115.6	597.1	998.8	1188.8	1289.8
65°	22.2	21.8	20.9	16.7	18.3	25.1	69.1	389.7	703.8	899.4	954.8
67.5°	17.1	17.9	15.4	13.2	15.4	19.6	38.4	174.6	369.2	539.5	584.3
70°	11.9	12.8	12.4	11.5	13.6	16.2	22.2	59.8	152.8	283.4	312.4
72.5°	7.2	9.0	9.4	9.8	11.9	14.0	15.8	19.2	40.5	100.3	124.6
75°	4.3	6.0	7.2	8.6	9.8	11.9	13.2	13.6	14.0	18.8	30.3
77.5°	3.0	4.3	6.4	8.1	9.8	11.9	14.0	15.0	14.0	13.2	14.0
80°	2.5	4.3	6.0	7.7	10.3	12.4	14.0	14.0	13.6	11.9	12.8
82.5°	2.5	4.3	6.4	8.1	9.8	11.9	13.6	14.0	12.8	11.9	12.4
85°	3.0	4.7	6.8	8.6	10.7	9.8	9.0	7.2	6.8	5.6	6.0
87.5°	3.0	4.3	4.3	4.7	5.1	5.1	5.1	4.7	3.9	3.4	3.4
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: P651683

CATALOG NUMBER: GALN-SA1A-840-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9	1090.9
2.5°	1192.1	1226.3	1225.0	1225.8	1220.7	1186.1	1169.5	1127.3	1139.2	1134.1
5°	1237.8	1271.5	1300.5	1297.2	1257.9	1210.9	1141.3	1075.6	1057.6	1031.2
7.5°	1192.1	1273.2	1300.1	1296.2	1238.2	1178.1	1067.1	1001.3	970.2	952.7
10°	1119.5	1213.5	1246.8	1253.6	1214.3	1123.0	1021.0	915.5	898.9	868.6
12.5°	1078.2	1146.5	1167.0	1185.3	1171.7	1103.3	986.0	884.8	861.8	841.7
15°	1044.4	1085.0	1093.6	1114.4	1122.6	1085.8	1004.3	918.1	861.4	859.2
17.5°	1075.6	1059.0	1027.8	1034.2	1059.8	1086.2	1051.7	983.8	928.8	921.9
20°	1127.3	1053.9	983.4	999.2	1020.6	1101.6	1123.4	1075.6	1044.0	1026.5
22.5°	1186.6	1062.8	969.3	977.0	1017.5	1136.2	1239.5	1213.1	1154.1	1129.0
25°	1296.2	1087.6	980.4	985.6	1041.0	1184.5	1344.5	1364.1	1329.1	1324.0
27.5°	1403.4	1151.6	1004.7	993.2	1053.0	1231.4	1408.1	1513.5	1452.1	1440.1
30°	1458.0	1203.6	1041.0	1021.4	1102.5	1260.0	1446.5	1610.9	1557.0	1551.5
32.5°	1541.7	1251.0	1069.2	1044.0	1130.2	1295.4	1518.3	1717.2	1665.0	1637.3
35°	1576.7	1302.7	1131.1	1101.6	1209.6	1344.9	1554.9	1811.9	1795.6	1768.8
37.5°	1644.2	1358.1	1204.1	1202.4	1305.7	1409.3	1621.1	1940.8	1937.8	1891.2
40°	1649.7	1418.8	1319.4	1373.1	1454.2	1521.6	1679.1	1976.6	2025.3	1993.7
42.5°	1658.2	1525.1	1518.7	1563.0	1632.6	1618.1	1681.2	1985.2	2059.4	2040.7
45°	1662.1	1631.4	1721.4	1803.4	1832.4	1744.4	1661.2	1968.9	2077.4	2030.4
47.5°	1631.4	1722.7	1885.3	2043.6	2052.2	1822.1	1652.6	1952.3	2088.0	2056.9
50°	1635.6	1779.9	2027.0	2168.7	2137.6	1890.8	1639.4	1942.0	2082.5	2061.5
52°	1625.3	1781.2	2047.1	2166.2	2144.4	1852.9	1616.8	1902.8	2077.4	2092.3
52.5°	1636.9	1773.5	2026.1	2167.8	2139.7	1871.6	1613.8	1924.5	2080.4	2050.0
55°	1597.2	1682.1	1903.7	1963.8	1959.5	1698.7	1522.0	1852.4	2002.3	2002.7
57.5°	1443.5	1458.0	1493.0	1491.8	1472.1	1335.5	1301.8	1703.4	1785.0	1740.6
60°	1271.9	1067.5	973.2	934.8	913.0	890.8	1151.6	1558.4	1566.0	1547.3
62.5°	1099.1	740.1	614.6	603.9	609.1	690.2	1113.1	1500.8	1454.6	1414.1
65°	886.9	539.5	446.5	432.4	482.3	569.8	901.0	1150.7	1079.8	1046.1
67.5°	557.0	393.5	301.8	275.3	335.5	392.2	592.0	723.0	643.6	597.1
70°	330.3	219.8	136.6	122.5	137.8	209.2	331.6	360.7	298.4	274.4
72.5°	130.2	80.7	38.0	32.5	33.7	73.4	122.1	119.1	90.1	80.2
75°	35.0	24.3	13.2	10.7	9.0	13.6	19.6	12.8	4.7	6.0
77.5°	16.2	14.5	11.5	9.0	6.8	5.1	2.5	0.8	0.8	0.4
80°	14.0	12.4	10.7	9.0	6.8	4.3	2.1	0.4	0.4	0.4
82.5°	13.2	11.5	9.8	8.1	6.4	4.3	2.1	0.4	0.0	0.0
85°	5.6	7.2	8.1	7.7	6.8	4.3	2.1	0.4	0.0	0.0
87.5°	3.0	2.5	2.1	1.7	1.3	0.8	0.8	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

(END OF REPORT)