

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: P534425

Luminaire Tested: **GALN-SA9D-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534425
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-SA9D-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH 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: 30809 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 552
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



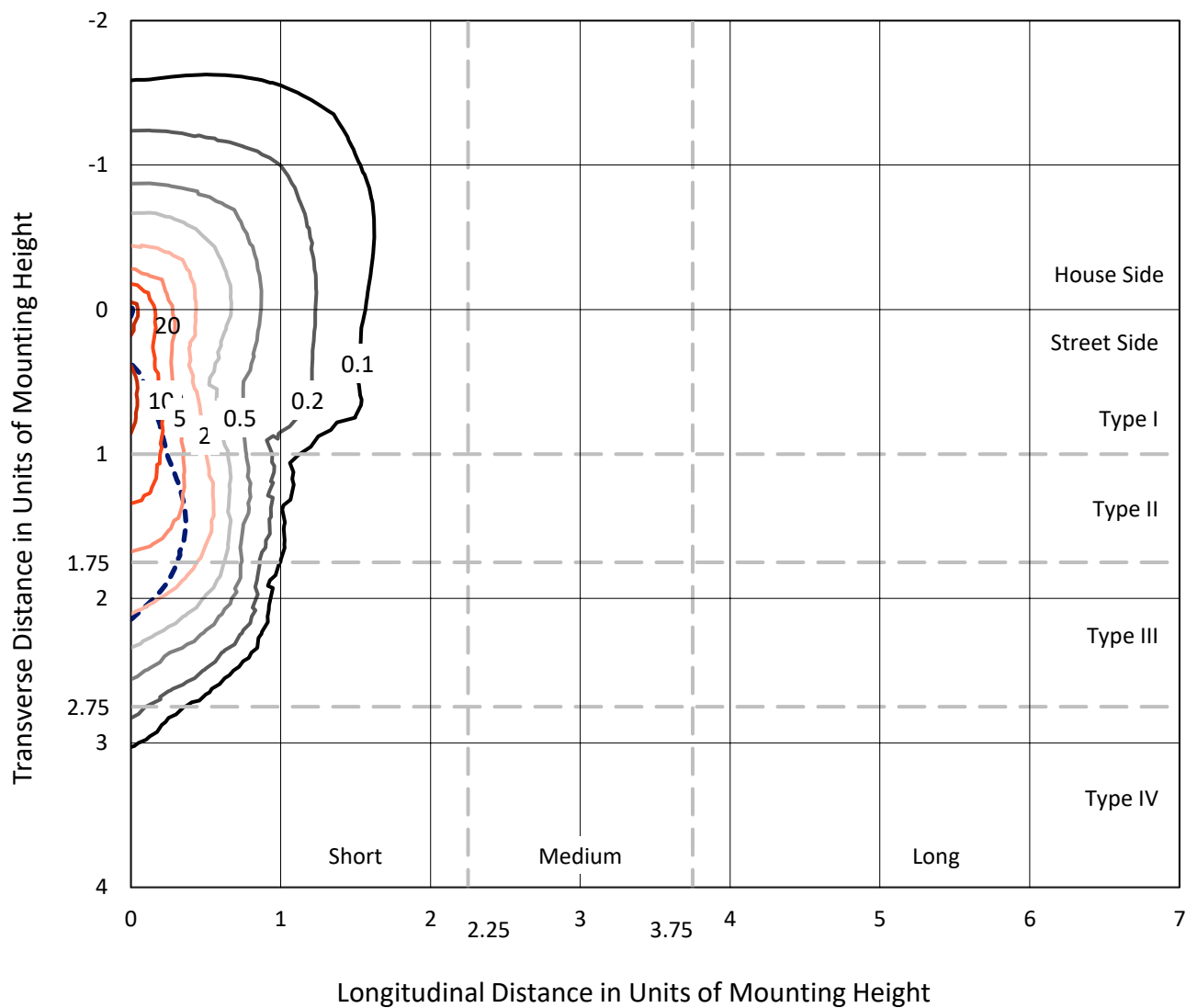
REPORT NUMBER: P534425

CATALOG NUMBER: GALN-SA9D-830-U-SLR-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



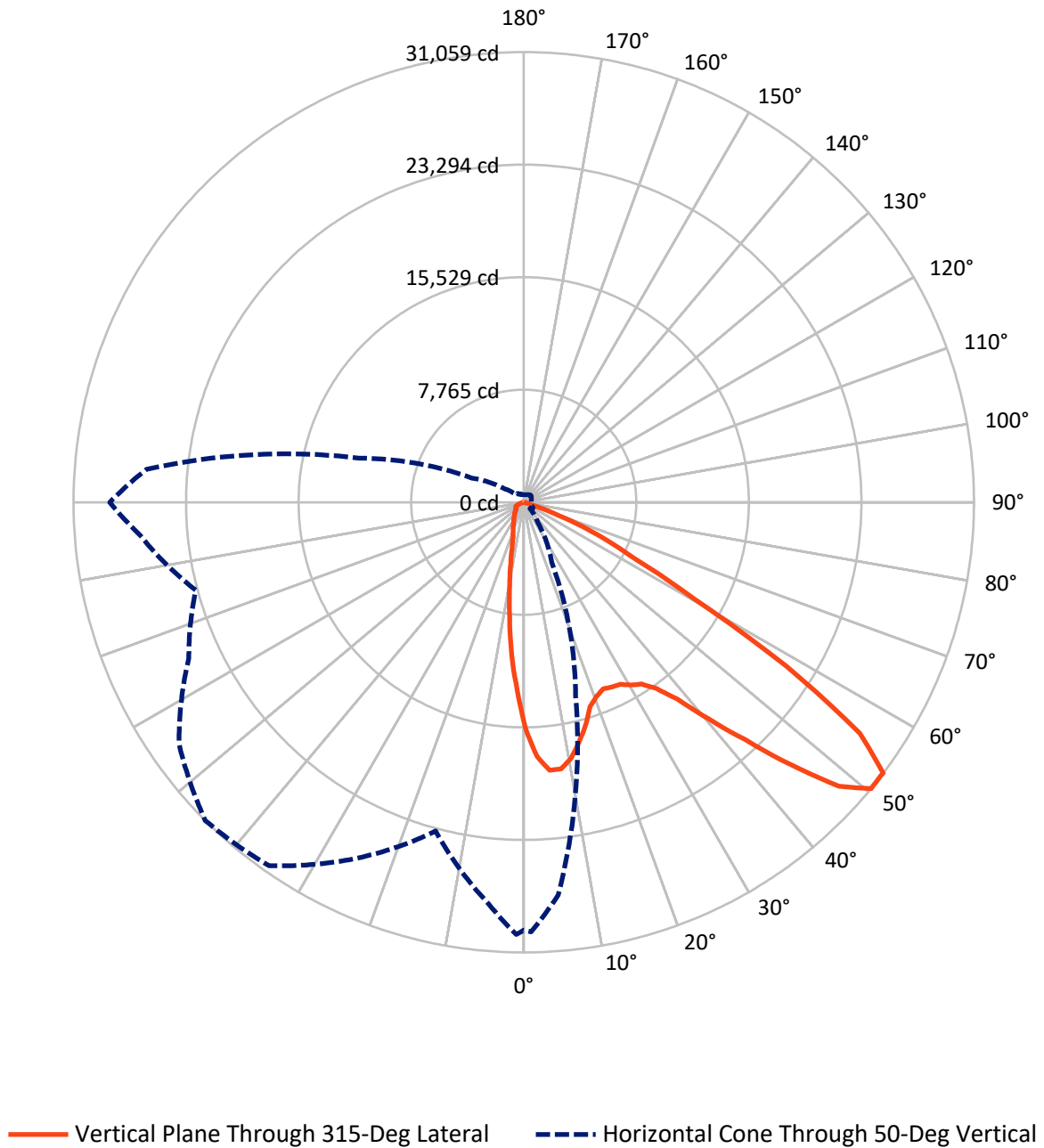
Based on 25 foot mounting height. Maximum calculated value = 25 fc

Type III - Short - N/A

REPORT NUMBER: P534425

CATALOG NUMBER: GALN-SA9D-830-U-SLR-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P534425

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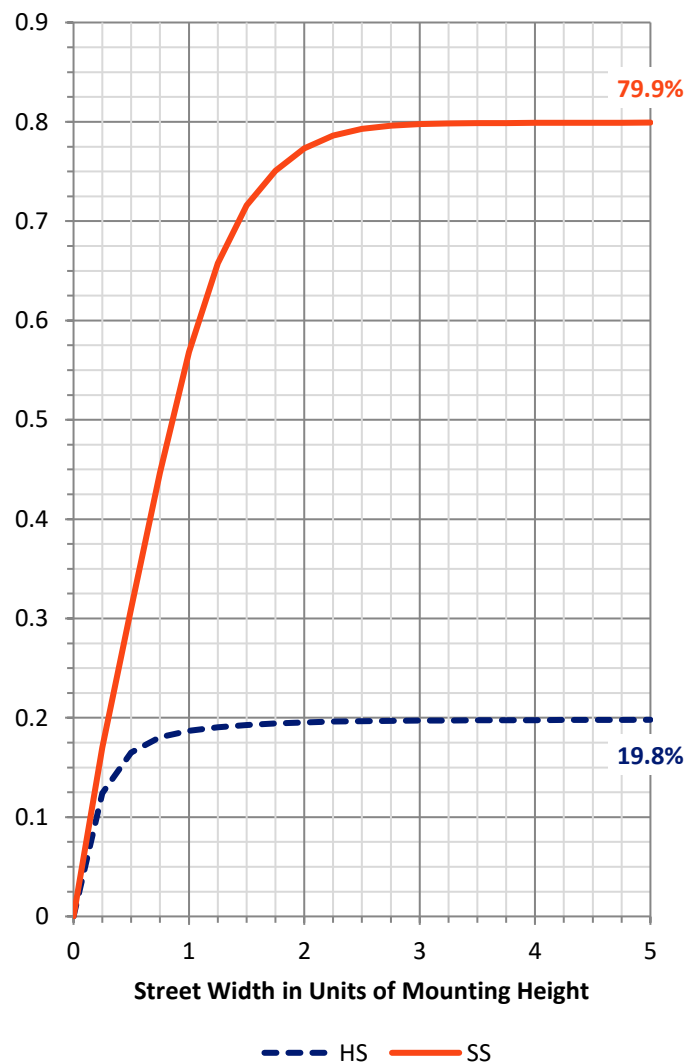
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6171.0	0.0	6171.0
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	24638.0	0.0	24638.0
	% Fixture	80.0	0.0	80.0
Total	Lumens	30809.0	0.0	30809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1138.8	3.7
10°-20°	2263.4	7.3
20°-30°	3400.3	11.0
30°-40°	5103.7	16.6
40°-50°	7172.9	23.3
50°-60°	7737.2	25.1
60°-70°	3592.4	11.7
70°-80°	338.0	1.1
80°-90°	62.3	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°	30809.0	100.0
0°-180°	30809.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534425

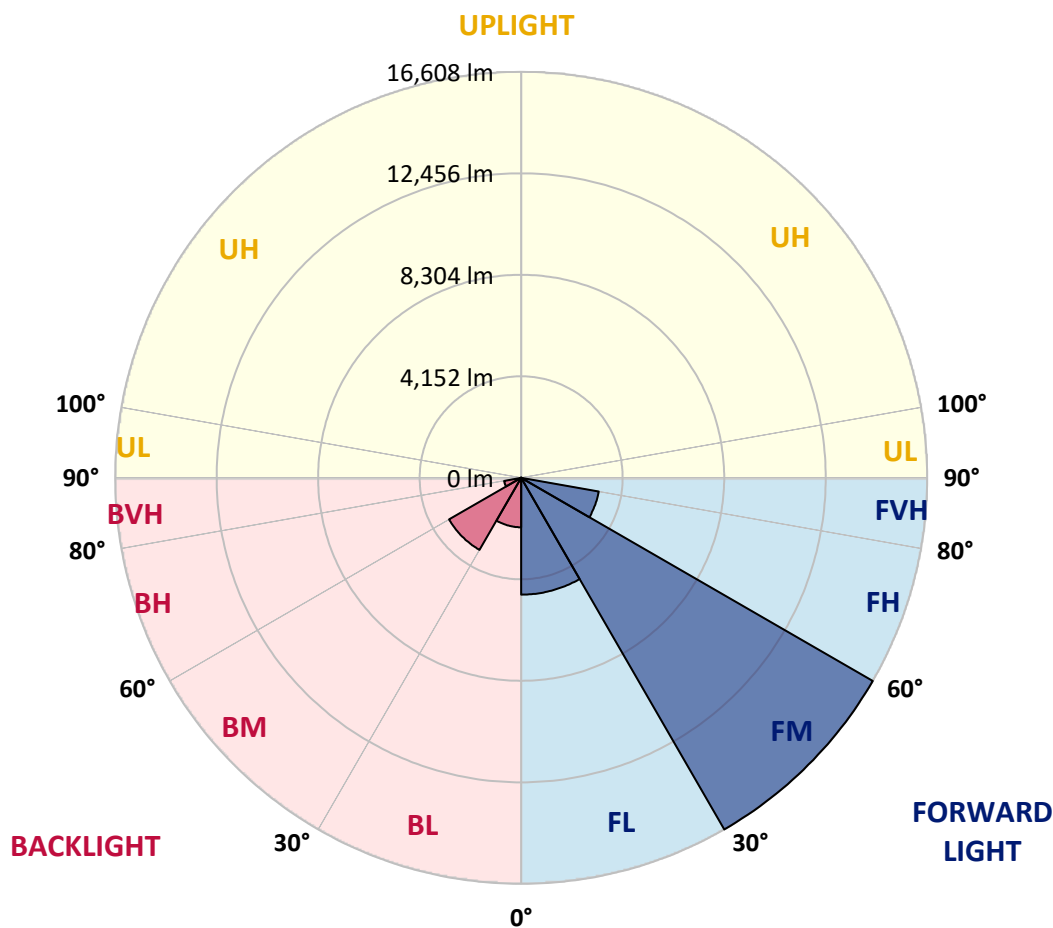
CATALOG NUMBER: GALN-SA9D-830-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4779.8	15.5			
FM	(30°-60°)	16608.4	53.9			
FH	(60°-80°)	3221.8	10.5			G2/5000
FVH	(80°-90°)	28.1	0.1			G1/100
BL	(0°-30°)	2022.7	6.6	B3/2500		
BM	(30°-60°)	3405.5	11.1	B3/5000		
BH	(60°-80°)	708.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	34.2	0.1			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 III Short



REPORT NUMBER: P534425

CATALOG NUMBER: GALN-SA9D-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0
2.5°	16241.4	15990.8	15672.9	15410.1	15018.9	14230.4	14016.4	13759.7	13545.7	13258.4	12855.0
5°	14768.3	14688.8	14542.1	13551.8	12836.7	11883.1	11100.7	10770.6	10336.6	9982.0	9725.3
7.5°	13643.5	13325.7	12861.1	11864.7	10721.7	9700.8	8832.8	8325.5	7750.9	7555.3	7206.9
10°	12439.3	12512.7	11828.1	10428.3	9046.8	8221.6	7683.7	7194.6	6675.1	6332.8	5837.6
12.5°	12054.2	11815.8	11290.1	9560.3	8380.5	7610.3	6956.2	6351.1	5800.9	5250.8	4774.0
15°	12304.9	11938.1	11204.6	9376.9	7867.0	6907.3	6088.2	5269.1	4761.8	4058.8	3563.7
17.5°	13203.4	12910.0	11925.9	9572.5	7604.2	6234.9	5018.5	4175.0	3398.7	2762.9	2512.3
20°	14701.0	14285.4	13050.6	9823.1	7213.0	5422.0	4071.1	3031.9	2298.4	2029.4	1888.8
22.5°	16168.1	15941.9	14383.2	10306.0	6864.6	4700.7	3056.3	2041.6	1717.7	1668.8	1577.1
25°	18961.6	18283.1	16418.7	11180.1	6595.6	4022.2	2304.5	1644.3	1454.8	1418.1	1430.4
27.5°	20624.2	20055.7	18301.4	11760.8	6296.1	3502.6	1949.9	1509.8	1381.5	1302.0	1271.4
30°	22219.6	21559.5	19236.6	12103.1	5654.2	2952.4	1729.9	1448.7	1418.1	1302.0	1265.3
32.5°	23448.3	22800.3	20587.6	12616.6	5391.4	2597.9	1424.3	1130.8	1051.4	1039.2	1149.2
35°	25331.0	24640.3	21742.9	12897.8	5189.7	2414.5	1234.8	1008.6	916.9	880.2	886.3
37.5°	27085.3	26614.7	22812.6	13007.8	4975.7	2359.5	1106.4	904.7	825.2	800.8	794.7
40°	28552.4	27501.0	23827.3	13124.0	4884.0	2255.6	1026.9	825.2	770.2	733.5	733.5
42.5°	29224.8	28155.1	24964.2	13056.7	4859.6	2090.5	1026.9	758.0	715.2	678.5	672.4
45°	29078.1	28644.1	25471.6	13026.2	4859.6	1925.5	935.2	739.6	678.5	629.6	617.4
47.5°	29457.1	28888.6	26107.3	13154.5	4761.8	1809.4	788.5	776.3	641.8	580.7	568.5
50°	29524.3	29634.3	27213.7	13820.8	4547.8	1662.7	617.4	764.1	617.4	525.7	513.5
52°	29964.4	29279.8	27549.9	14175.3	4321.7	1552.6	519.6	654.1	592.9	489.0	476.8
52.5°	29359.3	29805.5	27629.4	14303.7	4346.1	1479.3	501.2	641.8	580.7	489.0	458.5
55°	28680.8	29108.7	27305.4	14578.8	3985.5	1161.4	391.2	464.6	525.7	427.9	409.6
57.5°	24927.6	25361.6	23729.5	13350.1	3245.8	819.1	324.0	348.4	464.6	397.3	379.0
60°	22158.5	21846.8	19915.2	11137.3	2304.5	458.5	256.7	269.0	507.4	366.8	360.6
62.5°	20251.4	19585.1	16644.9	8600.6	1405.9	305.6	201.7	207.8	391.2	342.3	342.3
65°	14982.2	14236.5	11057.9	5201.9	690.7	213.9	152.8	165.0	244.5	293.4	293.4
67.5°	8551.7	8264.4	5342.5	2347.3	287.3	134.5	116.1	128.4	189.5	238.4	226.2
70°	3930.5	3527.0	2053.9	495.1	134.5	91.7	91.7	103.9	152.8	177.3	165.0
72.5°	1149.2	1088.1	501.2	79.5	55.0	55.0	61.1	79.5	116.1	134.5	122.3
75°	85.6	55.0	36.7	24.5	24.5	36.7	48.9	79.5	116.1	128.4	103.9
77.5°	6.1	12.2	6.1	6.1	18.3	36.7	55.0	97.8	152.8	158.9	116.1
80°	6.1	6.1	0.0	6.1	18.3	36.7	61.1	110.0	171.2	183.4	97.8
82.5°	0.0	0.0	0.0	6.1	24.5	48.9	73.4	116.1	158.9	195.6	103.9
85°	0.0	0.0	0.0	6.1	36.7	67.2	85.6	30.6	18.3	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: P534425

CATALOG NUMBER: GALN-SA9D-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0
2.5°	13142.3	12983.4	12922.2	12977.2	12958.9	12940.6	13276.8	13203.4	13191.2	13301.2	13276.8
5°	9865.9	9584.7	10354.9	10043.2	10367.1	10562.7	10599.4	10617.7	10843.9	10605.5	10917.3
7.5°	7029.6	7103.0	7096.8	7304.7	7677.5	8007.6	8203.2	8050.4	8038.2	8007.6	7873.2
10°	5617.6	5489.2	5464.7	5415.8	5532.0	5813.2	6051.6	5862.1	5727.6	5911.0	5856.0
12.5°	4590.6	4413.4	4315.6	4120.0	4126.1	4315.6	4315.6	4315.6	4450.0	4554.0	4633.4
15°	3520.9	3374.2	3374.2	3178.6	3135.8	3141.9	3239.7	3252.0	3465.9	3527.0	3557.6
17.5°	2463.4	2384.0	2475.6	2555.1	2506.2	2518.4	2555.1	2567.3	2597.9	2573.4	2634.6
20°	1894.9	1882.7	1907.2	2047.8	2151.7	2212.8	2170.0	2108.9	2072.2	1986.6	1986.6
22.5°	1607.6	1632.1	1674.9	1791.0	1925.5	1962.2	1913.3	1772.7	1662.7	1650.4	1656.5
25°	1430.4	1454.8	1522.1	1595.4	1668.8	1729.9	1681.0	1577.1	1515.9	1460.9	1460.9
27.5°	1320.3	1332.6	1369.2	1424.3	1485.4	1534.3	1515.9	1460.9	1393.7	1369.2	1314.2
30°	1234.8	1253.1	1295.9	1308.1	1363.1	1387.6	1357.0	1344.8	1302.0	1271.4	1253.1
32.5°	1192.0	1185.9	1216.4	1228.7	1234.8	1253.1	1216.4	1234.8	1228.7	1179.7	1161.4
35°	898.6	947.5	1026.9	1094.2	1112.5	1137.0	1130.8	1106.4	1039.2	984.1	916.9
37.5°	806.9	837.4	880.2	935.2	1008.6	1039.2	1026.9	965.8	886.3	849.7	837.4
40°	745.7	764.1	800.8	837.4	910.8	965.8	923.0	868.0	806.9	776.3	758.0
42.5°	690.7	696.8	715.2	751.9	806.9	892.5	819.1	745.7	721.3	703.0	690.7
45°	629.6	629.6	654.1	672.4	733.5	813.0	739.6	672.4	660.2	647.9	641.8
47.5°	580.7	586.8	599.0	623.5	672.4	727.4	678.5	623.5	592.9	586.8	574.6
50°	519.6	525.7	550.1	574.6	635.7	666.3	635.7	574.6	544.0	525.7	525.7
52°	470.7	489.0	513.5	562.4	605.2	654.1	617.4	550.1	513.5	495.1	482.9
52.5°	464.6	476.8	501.2	556.3	605.2	647.9	611.3	544.0	501.2	489.0	476.8
55°	415.7	434.0	476.8	544.0	599.0	647.9	599.0	537.9	476.8	446.2	434.0
57.5°	397.3	409.6	464.6	550.1	592.9	647.9	599.0	537.9	476.8	421.8	409.6
60°	379.0	403.4	464.6	531.8	586.8	654.1	605.2	531.8	464.6	397.3	397.3
62.5°	360.6	379.0	458.5	519.6	562.4	629.6	580.7	519.6	446.2	379.0	372.9
65°	311.7	342.3	403.4	434.0	482.9	544.0	495.1	452.3	391.2	336.2	330.1
67.5°	238.4	250.6	299.5	336.2	366.8	421.8	397.3	342.3	299.5	256.7	256.7
70°	165.0	177.3	213.9	232.3	262.8	293.4	275.1	232.3	201.7	177.3	171.2
72.5°	116.1	122.3	134.5	146.7	158.9	171.2	165.0	134.5	116.1	110.0	103.9
75°	91.7	103.9	110.0	103.9	97.8	91.7	91.7	79.5	67.2	61.1	61.1
77.5°	91.7	97.8	91.7	79.5	67.2	61.1	55.0	48.9	36.7	30.6	36.7
80°	79.5	79.5	79.5	67.2	61.1	55.0	48.9	42.8	36.7	30.6	30.6
82.5°	85.6	85.6	79.5	67.2	67.2	55.0	55.0	48.9	42.8	30.6	30.6
85°	0.0	0.0	0.0	12.2	30.6	55.0	55.0	48.9	42.8	36.7	36.7
87.5°	0.0	0.0	0.0	0.0	6.1	12.2	24.5	30.6	36.7	36.7	36.7
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: P534425

CATALOG NUMBER: GALN-SA9D-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0
2.5°	13496.8	13729.1	14169.2	14609.3	14878.3	15196.2	15770.8	16076.4	16473.7	16669.3	17054.4
5°	10874.5	11424.6	11620.2	12121.5	12659.4	13197.3	14053.1	14994.4	15776.9	16314.8	17011.6
7.5°	7934.3	8062.6	8820.6	9156.8	10037.0	11015.1	12182.6	13368.5	14358.7	15238.9	15770.8
10°	5947.7	6418.3	6895.1	7537.0	8246.0	9254.6	10373.2	11681.4	12965.0	13845.3	14517.6
12.5°	4780.1	5153.0	5788.7	6479.5	7353.6	8019.9	9144.6	10440.5	12103.1	12965.0	13851.4
15°	3618.7	4095.5	4816.8	5532.0	6455.0	7158.0	8294.9	9927.0	12066.5	13252.3	14016.4
17.5°	2683.5	3007.4	3655.4	4456.2	5397.5	6387.8	7922.1	9872.0	12476.0	13888.0	14676.6
20°	2053.9	2163.9	2573.4	3288.6	4309.4	5605.3	7316.9	10110.4	13686.3	15434.6	16235.3
22.5°	1662.7	1711.6	1870.5	2365.6	3355.9	4920.7	7029.6	10275.4	15049.5	17286.7	18356.4
25°	1448.7	1436.5	1540.4	1754.3	2622.3	4278.9	6662.8	10898.9	16718.2	19462.8	20422.5
27.5°	1320.3	1320.3	1369.2	1522.1	2176.1	3863.2	6430.6	11345.2	18399.2	21376.1	21895.7
30°	1253.1	1265.3	1405.9	1454.8	1809.4	3368.1	6045.5	11797.5	20006.8	22598.6	23313.8
32.5°	1161.4	1112.5	1081.9	1204.2	1522.1	2921.9	5660.4	11987.0	21308.9	24096.2	24707.5
35°	892.5	868.0	904.7	996.4	1308.1	2542.9	5232.5	12200.9	22806.5	25832.2	25954.5
37.5°	806.9	800.8	825.2	904.7	1100.3	2212.8	4926.8	12145.9	23949.5	27268.7	26938.6
40°	745.7	745.7	764.1	831.3	984.1	1980.5	4609.0	12097.0	25055.9	28882.5	27916.7
42.5°	696.8	696.8	727.4	770.2	935.2	1827.7	4370.6	12029.8	25985.1	29872.7	28491.3
45°	629.6	647.9	696.8	739.6	947.5	1723.8	4193.3	11773.0	26302.9	29860.5	28216.2
47.5°	580.7	605.2	654.1	715.2	855.8	1693.2	4071.1	11546.9	26192.9	29127.0	27354.3
50°	525.7	556.3	623.5	727.4	727.4	1632.1	3942.7	11748.6	26113.4	28558.5	26529.1
52°	489.0	513.5	599.0	709.1	635.7	1503.7	3863.2	12139.8	26437.4	28485.2	26162.3
52.5°	482.9	501.2	580.7	696.8	605.2	1479.3	3808.2	12231.5	26541.3	28301.8	26413.0
55°	427.9	452.3	531.8	544.0	495.1	1216.4	3630.9	12439.3	26027.9	27941.1	26174.6
57.5°	403.4	415.7	470.7	446.2	427.9	916.9	3123.6	12115.4	23118.2	24817.5	24353.0
60°	372.9	385.1	440.1	348.4	360.6	641.8	2347.3	10519.9	18564.3	20679.2	21516.7
62.5°	360.6	354.5	415.7	281.2	305.6	464.6	1656.5	8551.7	14303.7	17023.9	18472.6
65°	317.9	311.7	299.5	238.4	262.8	360.6	990.3	5580.9	10079.8	12879.4	13674.1
67.5°	244.5	256.7	220.1	189.5	220.1	281.2	550.1	2500.1	5287.5	7726.4	8368.3
70°	171.2	183.4	177.3	165.0	195.6	232.3	317.9	855.8	2188.3	4058.8	4474.5
72.5°	103.9	128.4	134.5	140.6	171.2	201.7	226.2	275.1	580.7	1436.5	1784.9
75°	61.1	85.6	103.9	122.3	140.6	171.2	189.5	195.6	201.7	269.0	434.0
77.5°	42.8	61.1	91.7	116.1	140.6	171.2	201.7	213.9	201.7	189.5	201.7
80°	36.7	61.1	85.6	110.0	146.7	177.3	201.7	201.7	195.6	171.2	183.4
82.5°	36.7	61.1	91.7	116.1	140.6	171.2	195.6	201.7	183.4	171.2	177.3
85°	42.8	67.2	97.8	122.3	152.8	140.6	128.4	103.9	97.8	79.5	85.6
87.5°	42.8	61.1	61.1	67.2	73.4	73.4	73.4	67.2	55.0	48.9	48.9
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: P534425

CATALOG NUMBER: GALN-SA9D-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0	15624.0
2.5°	17072.8	17561.8	17543.4	17555.7	17482.3	16987.2	16748.8	16143.6	16314.8	16241.4
5°	17726.8	18209.7	18625.4	18576.5	18014.1	17341.7	16345.3	15404.0	15147.3	14768.3
7.5°	17072.8	18234.2	18619.3	18564.3	17732.9	16871.0	15281.7	14340.4	13894.2	13643.5
10°	16033.6	17378.4	17855.2	17953.0	17390.6	16082.5	14621.6	13111.7	12873.3	12439.3
12.5°	15440.7	16418.7	16712.1	16975.0	16779.3	15801.3	14120.3	12671.6	12341.5	12054.2
15°	14957.8	15538.5	15660.7	15960.2	16076.4	15550.7	14383.2	13148.4	12335.4	12304.9
17.5°	15404.0	15165.6	14719.4	14811.1	15177.8	15556.8	15061.7	14089.8	13301.2	13203.4
20°	16143.6	15092.2	14083.6	14309.8	14615.5	15776.9	16088.6	15404.0	14951.7	14701.0
22.5°	16993.3	15220.6	13881.9	13992.0	14572.7	16272.0	17751.3	17372.3	16528.7	16168.1
25°	18564.3	15575.1	14040.9	14114.2	14908.9	16962.7	19255.0	19536.2	19034.9	18961.6
27.5°	20098.5	16492.0	14389.3	14224.2	15080.0	17635.1	20165.8	21675.6	20795.4	20624.2
30°	20881.0	17237.8	14908.9	14627.7	15789.1	18044.7	20715.9	23069.3	22299.1	22219.6
32.5°	22079.1	17916.3	15312.3	14951.7	16186.4	18552.0	21742.9	24591.4	23845.6	23448.3
35°	22580.3	18655.9	16198.6	15776.9	17323.4	19261.1	22268.5	25948.4	25716.1	25331.0
37.5°	23546.1	19450.6	17243.9	17219.5	18698.7	20184.1	23216.0	27794.4	27751.6	27085.3
40°	23625.6	20318.6	18894.3	19664.5	20825.9	21791.8	24047.3	28307.9	29004.7	28552.4
42.5°	23747.8	21840.7	21749.0	22384.7	23381.1	23173.2	24077.9	28430.1	29493.7	29224.8
45°	23802.8	23362.7	24652.5	25826.1	26241.8	24982.6	23790.6	28197.9	29750.5	29078.1
47.5°	23362.7	24670.8	26999.8	29267.6	29389.8	26095.1	23668.4	27959.5	29903.3	29457.1
50°	23423.8	25489.9	29029.2	31058.6	30612.4	27079.2	23478.9	27812.8	29823.8	29524.3
52°	23277.1	25508.3	29316.5	31021.9	30710.2	26535.2	23154.9	27250.4	29750.5	29964.4
52.5°	23442.2	25398.2	29017.0	31046.4	30642.9	26804.2	23112.1	27562.1	29793.3	29359.3
55°	22873.7	24090.1	27262.6	28124.5	28063.4	24328.5	21797.9	26529.1	28674.6	28680.8
57.5°	20673.1	20881.0	21382.2	21363.9	21082.7	19126.6	18643.7	24395.8	25563.3	24927.6
60°	18215.8	15287.8	13936.9	13386.8	13075.1	12757.2	16492.0	22317.4	22427.5	22158.5
62.5°	15740.2	10599.4	8802.3	8649.5	8722.8	9884.2	15941.9	21492.2	20832.1	20251.4
65°	12702.2	7726.4	6393.9	6192.2	6907.3	8160.4	12903.9	16479.8	15465.1	14982.2
67.5°	7977.1	5635.9	4321.7	3942.7	4804.6	5617.6	8478.3	10354.9	9217.9	8551.7
70°	4731.2	3148.0	1956.1	1754.3	1974.4	2995.2	4749.6	5165.2	4272.8	3930.5
72.5°	1864.4	1155.3	544.0	464.6	482.9	1051.4	1748.2	1705.4	1289.8	1149.2
75°	501.2	348.4	189.5	152.8	128.4	195.6	281.2	183.4	67.2	85.6
77.5°	232.3	207.8	165.0	128.4	97.8	73.4	36.7	12.2	12.2	6.1
80°	201.7	177.3	152.8	128.4	97.8	61.1	30.6	6.1	6.1	6.1
82.5°	189.5	165.0	140.6	116.1	91.7	61.1	30.6	6.1	0.0	0.0
85°	79.5	103.9	116.1	110.0	97.8	61.1	30.6	6.1	0.0	0.0
87.5°	42.8	36.7	30.6	24.5	18.3	12.2	12.2	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)