

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: P530679

Luminaire Tested: **GALN-SA5D-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17019 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 309
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



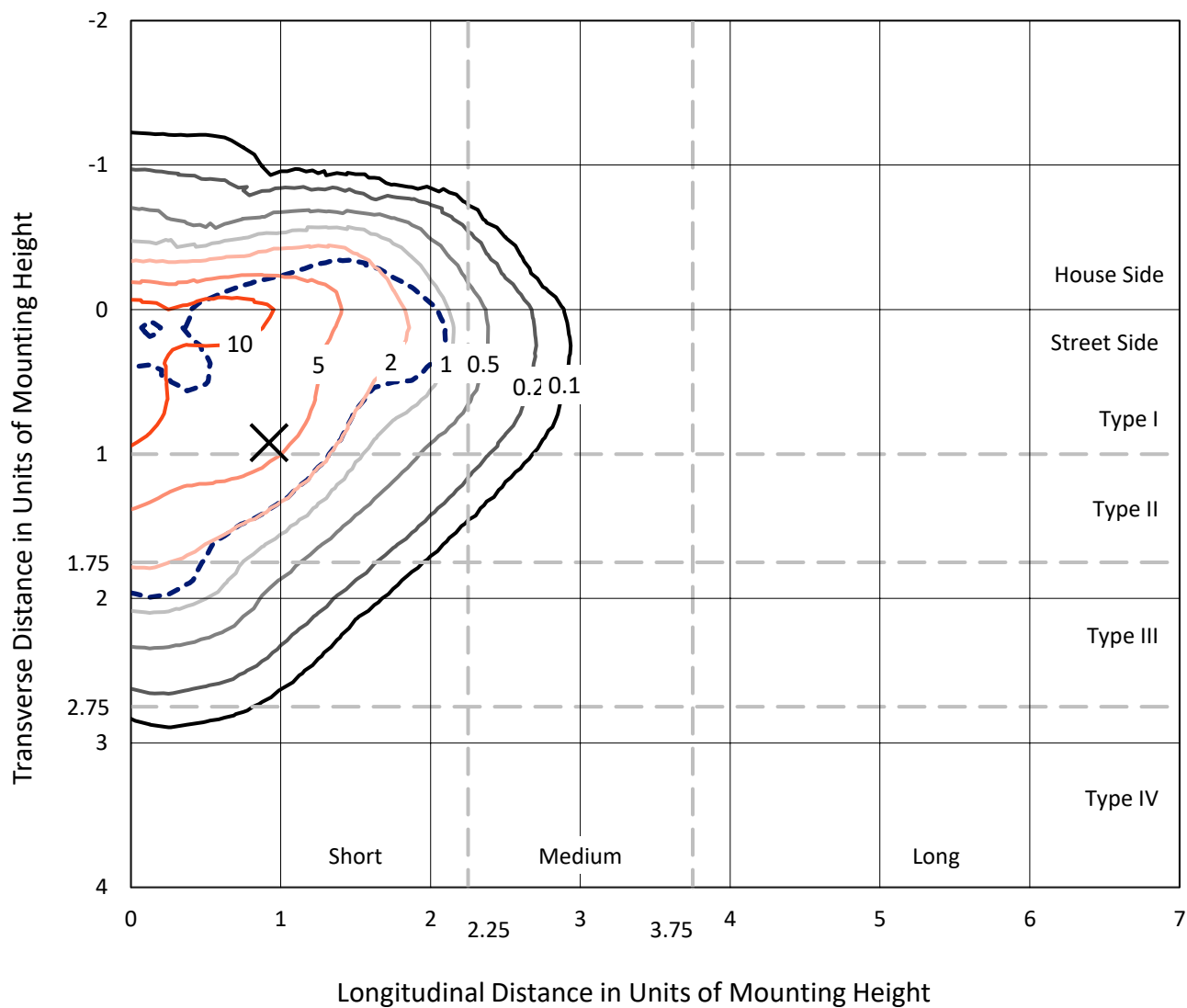
REPORT NUMBER: P530679

CATALOG NUMBER: GALN-SA5D-830-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

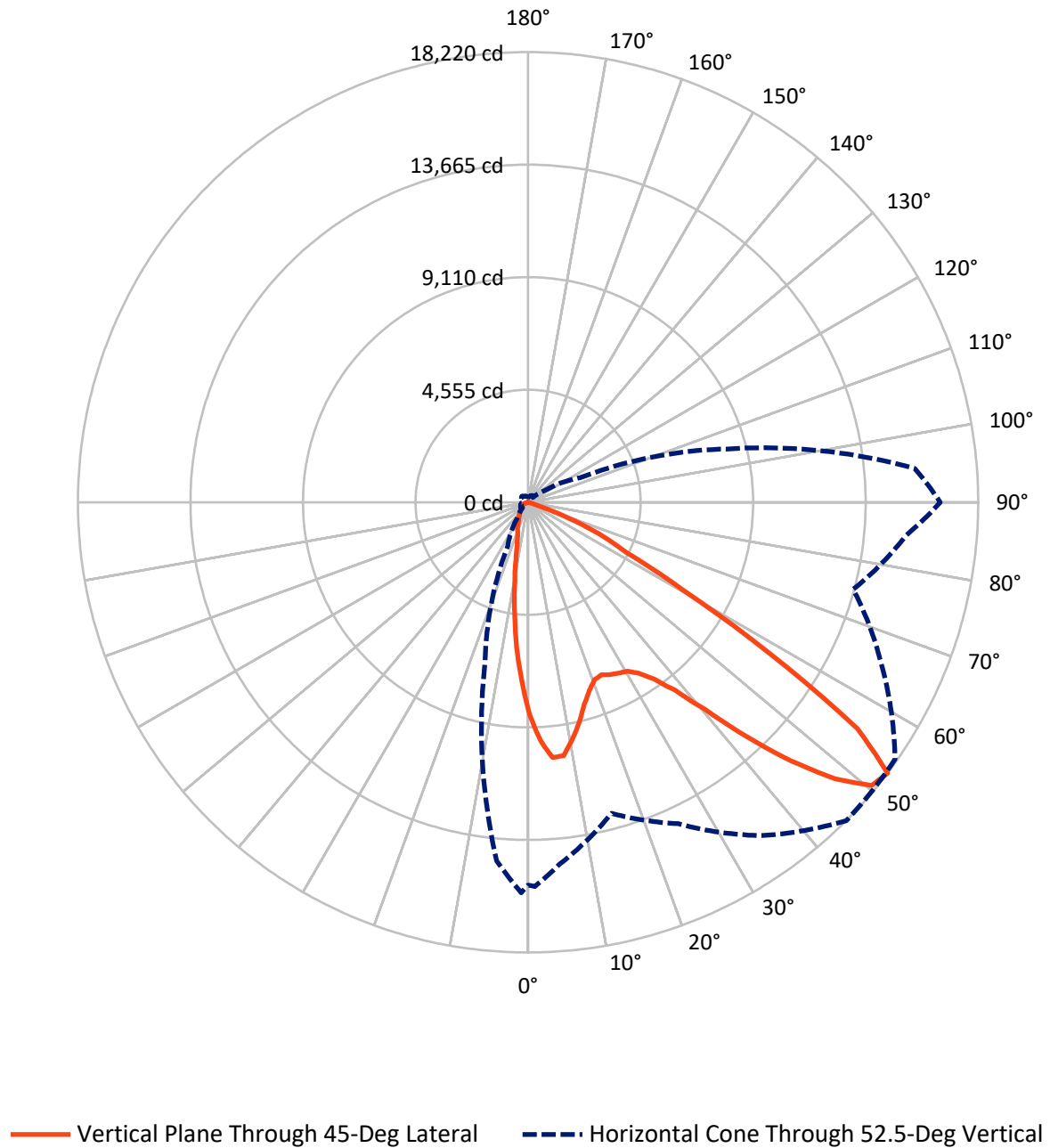


Based on 25 foot mounting height. Maximum calculated value = 14.9 fc

Type III - Short - N/A

REPORT NUMBER: P530679
CATALOG NUMBER: GALN-SA5D-830-U-SLL-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P530679

CATALOG NUMBER: GALN-SA5D-830-U-SLL-GRSBK

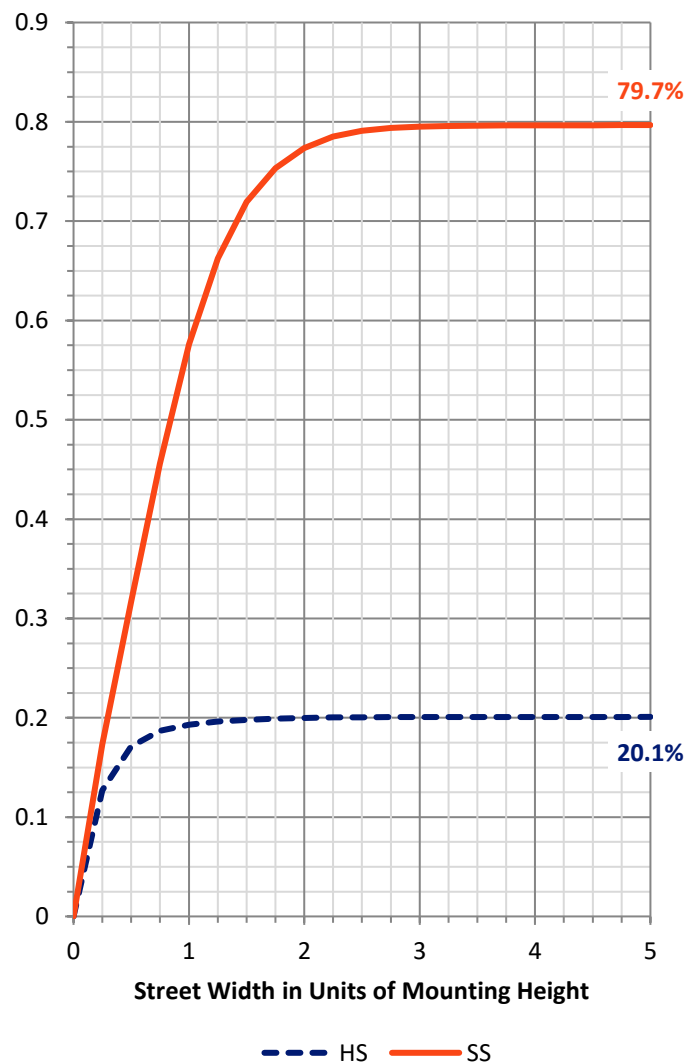
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3454.0	0.0	3454.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	13565.0	0.0	13565.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	17019.0	0.0	17019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.3	3.7
10°-20°	1241.6	7.3
20°-30°	1889.6	11.1
30°-40°	2824.2	16.6
40°-50°	4021.9	23.6
50°-60°	4323.4	25.4
60°-70°	1915.8	11.3
70°-80°	155.0	0.9
80°-90°	18.1	0.1
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°	17019.0	100.0
0°-180°	17019.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530679

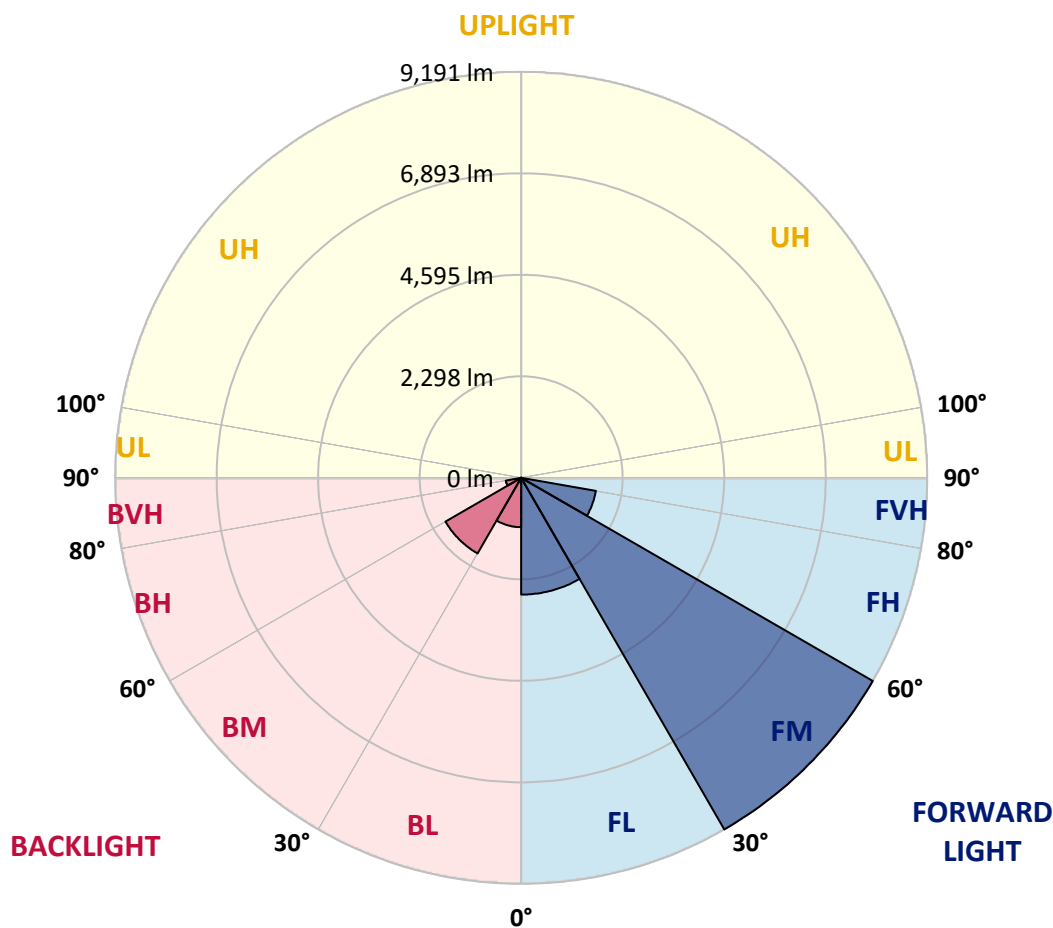
CATALOG NUMBER: GALN-SA5D-830-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2643.4	15.5			
FM	(30°-60°)	9190.8	54.0			
FH	(60°-80°)	1717.4	10.1			G1/1800
FVH	(80°-90°)	13.4	0.1			G1/100
BL	(0°-30°)	1117.2	6.6	B3/2500		
BM	(30°-60°)	1978.8	11.6	B2/2500		
BH	(60°-80°)	353.4	2.1	B1/500		G1/500
BVH	(80°-90°)	4.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type III Short



REPORT NUMBER: P530679

CATALOG NUMBER: GALN-SA5D-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4
2.5°	9131.5	9158.3	9305.6	9489.7	9586.8	9807.7	9653.7	9693.9	9610.2	9315.6	9084.7
5°	8853.7	8850.3	9037.8	9493.0	9924.8	10363.3	10376.7	10142.4	9730.7	9278.8	8632.8
7.5°	8016.9	8147.4	8341.6	9067.9	9867.9	10196.0	10353.3	10078.8	9446.2	8800.1	8100.5
10°	7384.2	7451.2	7779.2	8656.2	9242.0	9680.5	9777.6	9620.2	9134.9	8328.2	7544.9
12.5°	7019.4	7052.8	7437.8	8174.2	8793.4	9118.1	9165.0	9238.6	8890.5	8134.0	7193.4
15°	7022.7	7049.5	7568.3	8184.2	8428.6	8341.6	8495.5	8492.2	8642.8	8097.2	7488.0
17.5°	7528.2	7558.3	8026.9	8331.5	8224.4	8020.2	8010.2	8164.1	8482.1	8555.8	7933.2
20°	8398.5	8468.8	8813.5	8796.8	8194.3	7782.5	7668.7	7785.9	8525.7	8944.1	8830.3
22.5°	9570.0	9667.1	9908.1	9446.2	8331.5	7621.9	7585.1	7812.7	8813.5	9811.0	9847.9
25°	10929.0	11093.1	11210.2	10617.7	8820.2	7899.7	7725.6	8117.3	9201.8	10751.6	11143.3
27.5°	11829.5	12000.2	11973.4	11126.5	9148.3	7973.3	7826.1	8190.9	9539.9	10975.9	11819.4
30°	12532.4	12636.2	12823.6	11401.0	9476.3	8180.9	7929.8	8502.2	9650.4	11364.2	12636.2
32.5°	13352.5	13422.8	13436.2	11886.4	9981.7	8442.0	8251.2	8890.5	10139.1	11735.7	13359.2
35°	14179.3	14283.1	14065.5	12485.6	10293.0	8927.3	8786.7	9563.3	10530.7	12120.7	14155.9
37.5°	15076.4	15129.9	14627.8	12733.3	10738.2	9717.3	9640.3	10289.7	11210.2	12816.9	15039.6
40°	15829.5	15879.7	15227.0	13037.9	11206.9	10821.9	11019.4	11675.5	12134.1	13268.8	15481.4
42.5°	16248.0	16365.1	15427.9	12870.5	12147.5	12073.8	12950.8	13181.8	13205.2	13396.0	15876.4
45°	16361.8	16308.2	15096.5	13007.7	12970.9	14132.4	14929.1	15233.7	14269.7	13630.3	15976.8
47.5°	15836.2	15906.5	14607.8	12887.2	14052.1	15692.3	16723.3	17289.0	15063.0	13426.2	15729.1
50°	15411.1	15320.7	14450.4	12800.2	14343.3	16428.7	18018.7	18145.9	15792.7	13677.2	15458.0
52.5°	15494.8	15551.7	14701.5	13031.2	14350.0	16472.2	18219.5	18132.5	15816.1	13620.3	15360.9
55°	15672.2	15421.2	14594.4	12522.4	13389.3	15257.1	16171.0	16037.1	14597.7	13014.4	15123.2
57.5°	13523.2	13911.5	13419.5	11180.1	10989.3	11494.7	11478.0	11889.7	10888.9	11200.2	13767.6
60°	10975.9	11042.9	11227.0	9563.3	7605.1	7431.1	7190.1	6929.0	7327.3	9576.7	12522.4
62.5°	9653.7	9573.4	10229.4	8699.7	5369.1	4495.5	4455.3	4616.0	5653.6	9134.9	11745.8
65°	7016.0	7116.4	7591.8	6751.6	4030.2	3431.0	3370.8	3846.1	4575.8	7320.6	8964.2
67.5°	4284.6	4478.7	4522.2	4164.1	2734.8	2172.4	2085.4	2517.2	3303.8	4736.5	5255.3
70°	1978.3	2212.6	2433.5	2272.8	1583.3	893.7	843.5	1057.8	1667.0	2724.7	2788.3
72.5°	599.2	602.5	843.5	880.3	512.1	200.8	177.4	234.3	565.7	900.4	947.3
75°	43.5	46.9	113.8	130.5	97.1	50.2	53.6	63.6	120.5	200.8	150.6
77.5°	3.3	3.3	3.3	16.7	30.1	33.5	43.5	50.2	63.6	73.6	66.9
80°	3.3	0.0	3.3	13.4	23.4	33.5	40.2	46.9	50.2	56.9	50.2
82.5°	0.0	0.0	0.0	10.0	23.4	33.5	36.8	50.2	56.9	66.9	56.9
85°	0.0	0.0	0.0	10.0	23.4	36.8	33.5	16.7	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: P530679

CATALOG NUMBER: GALN-SA5D-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4
2.5°	9124.8	8994.3	8696.4	8545.7	8190.9	8140.7	7792.6	7735.7	7618.5	7554.9	7401.0
5°	8348.2	8190.9	7705.6	7297.2	6821.9	6490.5	6236.1	6005.1	5871.2	5747.4	5804.3
7.5°	7715.6	7257.0	6718.1	6035.2	5486.3	5131.5	4743.2	4425.2	4237.7	4110.5	4140.7
10°	7052.8	6754.9	6005.1	5238.6	4575.8	4324.8	4020.1	3775.8	3511.4	3283.7	3176.6
12.5°	6845.3	6403.4	5462.8	4682.9	4180.8	3936.5	3588.3	3307.2	2969.1	2691.3	2594.2
15°	6882.1	6457.0	5315.6	4482.1	3889.6	3467.8	3052.8	2704.6	2333.1	2138.9	2038.5
17.5°	7481.3	6744.9	5412.6	4271.2	3484.6	2898.8	2386.6	1944.8	1667.0	1466.1	1422.6
20°	8217.7	7367.5	5620.2	4117.2	3153.2	2306.3	1744.0	1362.4	1131.4	1097.9	1087.9
22.5°	9295.5	8385.1	6065.4	4013.5	2748.2	1797.5	1195.0	990.8	927.2	920.5	923.9
25°	10801.8	9660.4	6550.7	3926.4	2443.6	1385.8	977.4	840.2	820.1	810.1	826.8
27.5°	11454.6	10430.3	6808.5	3739.0	2165.7	1248.6	964.0	833.5	776.6	759.8	769.9
30°	12261.3	10942.4	7213.5	3417.6	1757.3	1027.6	900.4	907.1	880.3	796.7	769.9
32.5°	13332.4	11581.8	7417.7	3190.0	1569.9	850.2	659.4	605.9	676.2	689.6	713.0
35°	14018.6	12231.2	7521.5	3056.1	1472.8	726.4	559.0	508.8	492.1	495.4	508.8
37.5°	15294.0	13108.2	7652.0	2915.5	1399.2	632.6	505.4	458.6	435.2	435.2	448.5
40°	16057.2	13804.4	7829.4	2838.5	1325.5	575.7	458.6	418.4	398.3	398.3	405.0
42.5°	16248.0	14149.2	7769.2	2811.8	1241.9	562.4	418.4	388.3	364.9	361.5	358.2
45°	16589.4	14674.7	7779.2	2781.6	1154.8	512.1	395.0	361.5	328.0	324.7	321.3
47.5°	16964.3	15053.0	7799.3	2664.5	1071.1	428.5	411.7	334.7	294.6	287.9	287.9
50°	16642.9	15354.2	7973.3	2547.3	964.0	348.1	405.0	314.6	261.1	251.0	254.4
52.5°	16683.1	15709.0	8341.6	2383.3	830.1	277.8	328.0	297.9	237.7	220.9	224.3
55°	16040.4	15334.1	8391.8	2209.2	649.4	214.2	251.0	261.1	200.8	194.1	194.1
57.5°	13807.7	12984.3	7404.3	1790.8	428.5	177.4	180.8	227.6	174.1	167.4	170.7
60°	11816.1	10423.6	5958.3	1181.6	267.8	140.6	130.5	231.0	154.0	150.6	160.7
62.5°	10771.7	8565.8	4518.9	733.1	184.1	107.1	90.4	187.5	133.9	133.9	147.3
65°	7782.5	5754.1	2627.7	384.9	130.5	83.7	66.9	107.1	110.5	113.8	120.5
67.5°	4820.2	2905.5	1108.0	187.5	87.0	56.9	43.5	66.9	73.6	73.6	80.3
70°	2380.0	1158.2	368.2	107.1	66.9	46.9	30.1	36.8	36.8	33.5	36.8
72.5°	736.4	348.1	93.7	66.9	46.9	30.1	16.7	13.4	6.7	0.0	3.3
75°	83.7	66.9	60.3	46.9	30.1	13.4	3.3	0.0	0.0	0.0	0.0
77.5°	50.2	56.9	56.9	46.9	30.1	10.0	0.0	0.0	0.0	0.0	0.0
80°	40.2	43.5	46.9	43.5	26.8	13.4	0.0	0.0	0.0	0.0	0.0
82.5°	50.2	56.9	63.6	56.9	36.8	16.7	6.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.0	3.3	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: P530679

CATALOG NUMBER: GALN-SA5D-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4
2.5°	7337.4	7263.7	7367.5	7213.5	7210.2	7213.5	7170.0	7129.8	7193.4	7364.1	7380.9
5°	5600.1	5757.4	5807.6	5971.6	5881.3	5747.4	5774.1	5683.8	5904.7	6001.8	5924.8
7.5°	4077.1	4067.0	4405.1	4425.2	4468.7	4472.0	4465.3	4287.9	4107.2	4147.3	4267.8
10°	3163.2	2992.5	3156.5	3139.8	3246.9	3216.8	3260.3	3069.5	3133.1	3133.1	3210.1
12.5°	2577.4	2396.7	2366.6	2323.0	2366.6	2383.3	2400.0	2363.2	2470.3	2520.5	2574.1
15°	1968.2	1867.8	1841.0	1757.3	1770.7	1817.6	1857.8	1874.5	1841.0	1918.0	1924.7
17.5°	1429.3	1426.0	1442.7	1439.4	1426.0	1415.9	1412.6	1369.1	1355.7	1362.4	1389.1
20°	1084.5	1111.3	1168.2	1225.1	1255.2	1218.4	1168.2	1094.6	1064.5	1071.1	1074.5
22.5°	927.2	967.4	1044.4	1108.0	1138.1	1071.1	980.8	917.2	903.8	900.4	897.1
25°	840.2	887.0	943.9	964.0	960.7	920.5	853.6	826.8	820.1	813.4	783.3
27.5°	793.3	810.1	820.1	843.5	853.6	826.8	810.1	769.9	763.2	763.2	743.1
30°	766.5	756.5	769.9	753.1	766.5	746.5	749.8	749.8	733.1	739.8	739.8
32.5°	713.0	716.3	716.3	682.9	692.9	669.5	692.9	713.0	716.3	719.7	746.5
35°	522.2	582.4	612.6	612.6	622.6	605.9	602.5	579.1	549.0	518.8	505.4
37.5°	458.6	482.0	522.2	545.6	562.4	549.0	518.8	482.0	465.3	451.9	438.5
40°	408.4	428.5	455.2	482.0	515.5	498.8	451.9	435.2	415.1	415.1	401.7
42.5°	368.2	378.2	395.0	435.2	472.0	438.5	405.0	391.6	381.6	378.2	374.9
45°	331.4	334.7	351.5	384.9	428.5	395.0	361.5	344.8	348.1	351.5	348.1
47.5°	297.9	304.6	314.6	354.8	381.6	364.9	328.0	318.0	318.0	318.0	321.3
50°	257.7	274.5	294.6	328.0	348.1	338.1	308.0	294.6	287.9	287.9	291.2
52.5°	231.0	244.4	271.1	311.3	338.1	321.3	291.2	271.1	257.7	254.4	261.1
55°	200.8	224.3	267.8	297.9	334.7	318.0	284.5	261.1	237.7	234.3	234.3
57.5°	180.8	217.6	257.7	294.6	324.7	311.3	284.5	254.4	224.3	220.9	220.9
60°	170.7	210.9	251.0	284.5	324.7	304.6	281.2	247.7	214.2	214.2	210.9
62.5°	160.7	197.5	237.7	271.1	311.3	294.6	271.1	237.7	204.2	204.2	197.5
65°	133.9	170.7	197.5	227.6	271.1	254.4	231.0	207.5	180.8	174.1	177.4
67.5°	93.7	117.2	143.9	174.1	200.8	194.1	184.1	167.4	143.9	140.6	137.2
70°	46.9	63.6	87.0	117.2	140.6	133.9	127.2	113.8	100.4	97.1	97.1
72.5°	6.7	20.1	36.8	53.6	73.6	77.0	73.6	70.3	66.9	63.6	66.9
75°	0.0	0.0	0.0	13.4	30.1	36.8	43.5	50.2	50.2	43.5	53.6
77.5°	0.0	0.0	0.0	0.0	3.3	16.7	33.5	43.5	53.6	46.9	63.6
80°	0.0	0.0	0.0	0.0	3.3	20.1	33.5	46.9	53.6	46.9	66.9
82.5°	0.0	0.0	0.0	0.0	3.3	23.4	33.5	43.5	50.2	46.9	60.3
85°	0.0	0.0	0.0	0.0	10.0	20.1	13.4	6.7	3.3	3.3	10.0
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: P530679

CATALOG NUMBER: GALN-SA5D-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4	8629.4
2.5°	7474.6	7712.3	7966.7	8063.7	8365.0	8592.6	8746.6	9078.0	9128.2	9131.5
5°	6005.1	6125.6	6560.8	6765.0	7213.5	7561.6	7933.2	8468.8	8826.9	8853.7
7.5°	4267.8	4602.6	4786.7	5318.9	5871.2	6416.8	6969.1	7591.8	8006.8	8016.9
10°	3434.4	3651.9	3980.0	4378.3	4843.6	5399.2	6135.7	6858.7	7280.4	7384.2
12.5°	2764.9	3146.5	3521.4	3933.1	4287.9	4706.3	5499.7	6463.7	6811.8	7019.4
15°	2128.9	2477.0	2918.9	3400.9	3802.6	4361.6	5265.4	6366.6	6952.4	7022.7
17.5°	1569.9	1881.2	2289.6	2744.8	3347.3	4140.7	5305.5	6858.7	7411.0	7528.2
20°	1128.1	1308.8	1630.2	2159.0	2925.6	3882.9	5345.7	7357.4	8197.6	8398.5
22.5°	893.7	967.4	1178.3	1646.9	2453.6	3611.8	5630.2	8311.4	9278.8	9570.0
25°	776.6	816.7	917.2	1298.8	2155.7	3585.0	6085.5	9456.2	10718.2	10929.0
27.5°	749.8	756.5	843.5	1191.7	1995.0	3407.6	6259.5	10269.6	11615.2	11829.5
30°	790.0	897.1	903.8	1007.5	1697.1	3056.1	6349.9	11056.2	12375.1	12532.4
32.5°	682.9	649.4	672.8	779.9	1492.9	2851.9	6520.6	11742.4	13242.0	13352.5
35°	475.3	498.8	552.3	676.2	1305.5	2637.7	6564.1	12498.9	14065.5	14179.3
37.5°	438.5	451.9	495.4	575.7	1148.1	2517.2	6503.9	13051.3	14919.1	15076.4
40°	408.4	425.1	448.5	522.2	1031.0	2383.3	6420.2	13550.0	15441.2	15829.5
42.5°	384.9	398.3	418.4	498.8	930.6	2249.4	6303.0	14252.9	15909.9	16248.0
45°	358.2	378.2	401.7	485.4	873.7	2159.0	6216.0	14209.4	16181.0	16361.8
47.5°	331.4	364.9	391.6	451.9	856.9	2115.5	6252.8	14045.4	15960.1	15836.2
50°	304.6	348.1	395.0	374.9	816.7	2028.5	6296.3	14269.7	15434.6	15411.1
52.5°	281.2	331.4	368.2	308.0	726.4	1944.8	6718.1	14564.2	15806.1	15494.8
55°	247.7	297.9	294.6	247.7	589.1	1881.2	7049.5	14570.9	15555.1	15672.2
57.5°	224.3	264.4	231.0	207.5	435.2	1573.2	6510.6	12217.8	13315.7	13523.2
60°	207.5	257.7	174.1	164.0	284.5	1134.7	5683.8	9462.9	10584.3	10975.9
62.5°	190.8	244.4	137.2	133.9	197.5	806.7	4672.9	7919.8	9121.5	9653.7
65°	167.4	174.1	110.5	103.8	140.6	435.2	2845.2	5452.8	6818.5	7016.0
67.5°	137.2	133.9	90.4	83.7	93.7	210.9	1255.2	2731.4	3953.2	4284.6
70°	110.5	110.5	77.0	66.9	66.9	97.1	328.0	1087.9	1787.5	1978.3
72.5°	80.3	83.7	60.3	53.6	50.2	46.9	53.6	217.6	468.6	599.2
75°	70.3	73.6	60.3	46.9	36.8	30.1	23.4	20.1	26.8	43.5
77.5°	77.0	77.0	63.6	43.5	33.5	23.4	13.4	6.7	6.7	3.3
80°	97.1	100.4	83.7	56.9	40.2	26.8	16.7	6.7	3.3	3.3
82.5°	103.8	113.8	93.7	70.3	50.2	30.1	16.7	3.3	0.0	0.0
85°	26.8	43.5	73.6	63.6	50.2	30.1	16.7	3.3	0.0	0.0
87.5°	0.0	3.3	10.0	10.0	13.4	13.4	10.0	3.3	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)