

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: P651461

Luminaire Tested: **GALN-SA6D-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651461
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-SA6D-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27705.9 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

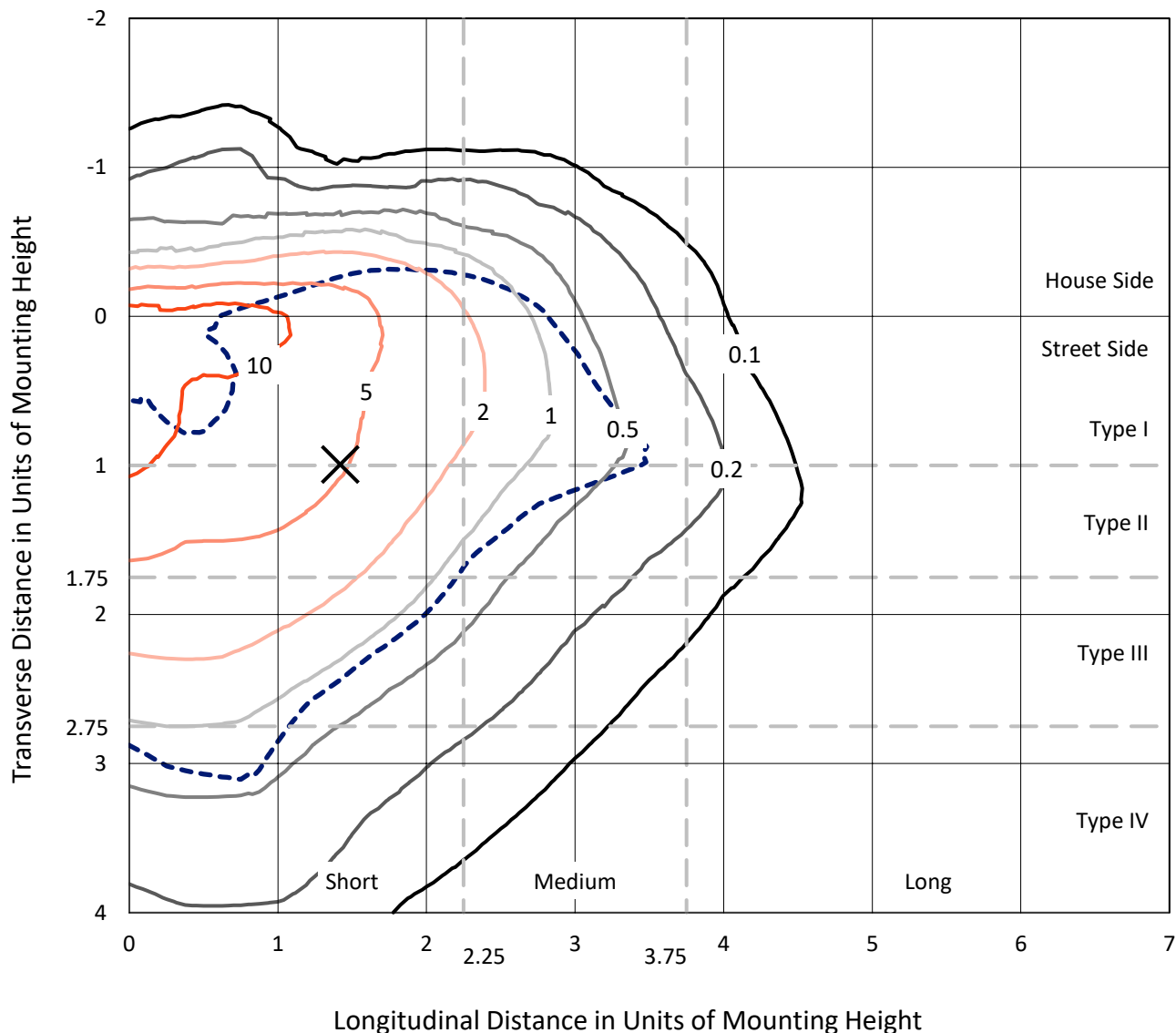
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651461
 CATALOG NUMBER: GALN-SA6D-840-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

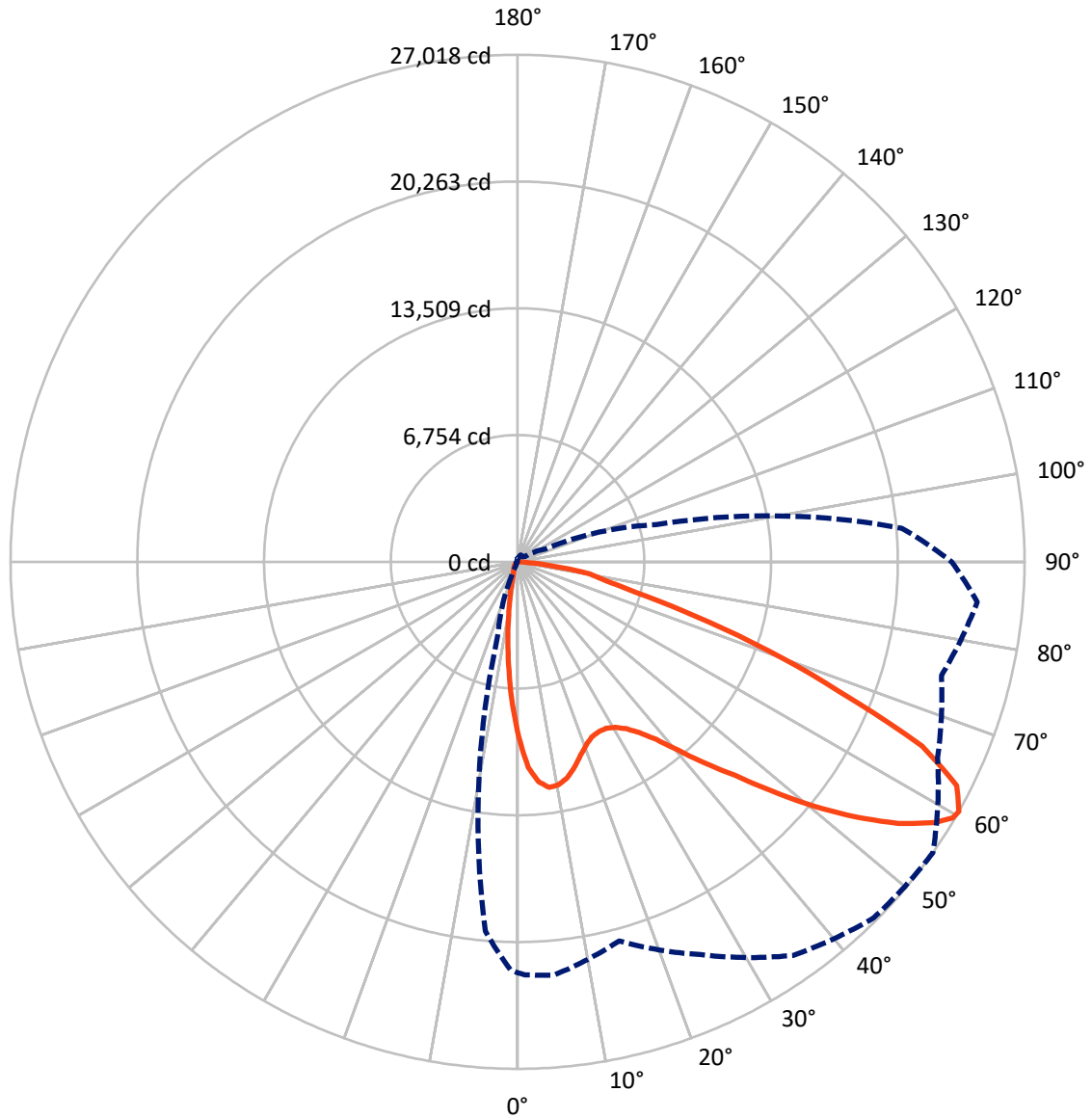
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type III - Short - N/A

REPORT NUMBER: P651461
CATALOG NUMBER: GALN-SA6D-840-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651461
 CATALOG NUMBER: GALN-SA6D-840-U-SLL-HSS

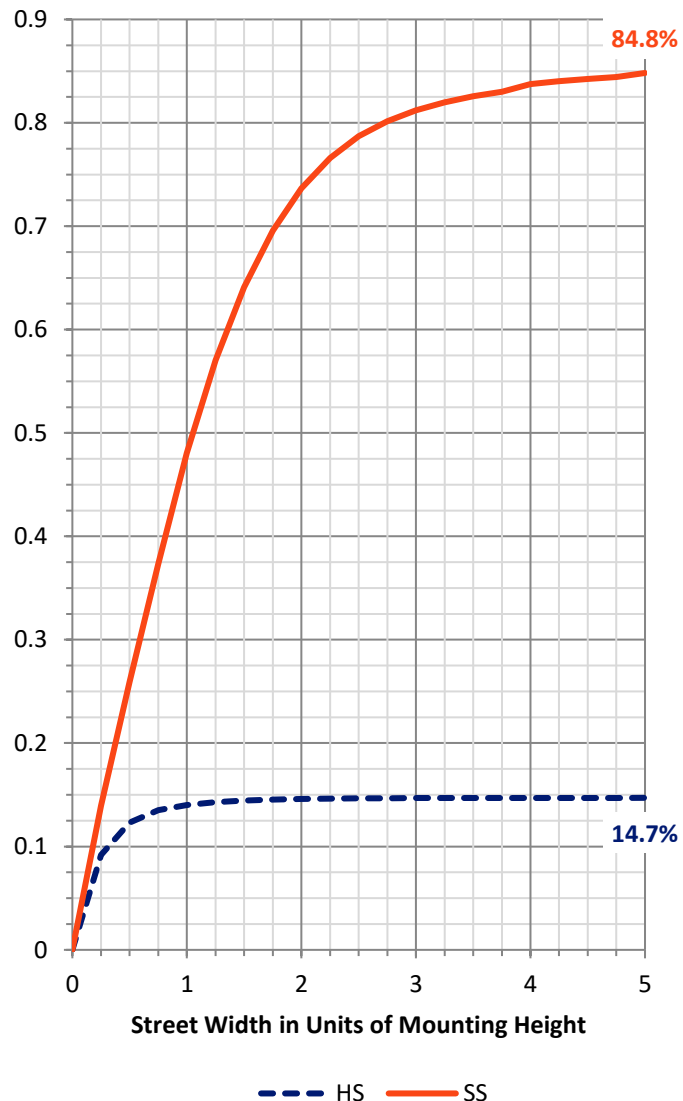
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4111.8	0.0	4111.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	23594.1	0.0	23594.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	27705.9	0.0	27705.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.7	2.5
10°-20°	1368.0	4.9
20°-30°	2024.9	7.3
30°-40°	3018.3	10.9
40°-50°	4420.3	16.0
50°-60°	6381.6	23.0
60°-70°	6713.1	24.2
70°-80°	2761.5	10.0
80°-90°	323.4	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°	27705.9	100.0
0°-180°	27705.9	100.0

Coefficient of Utilization



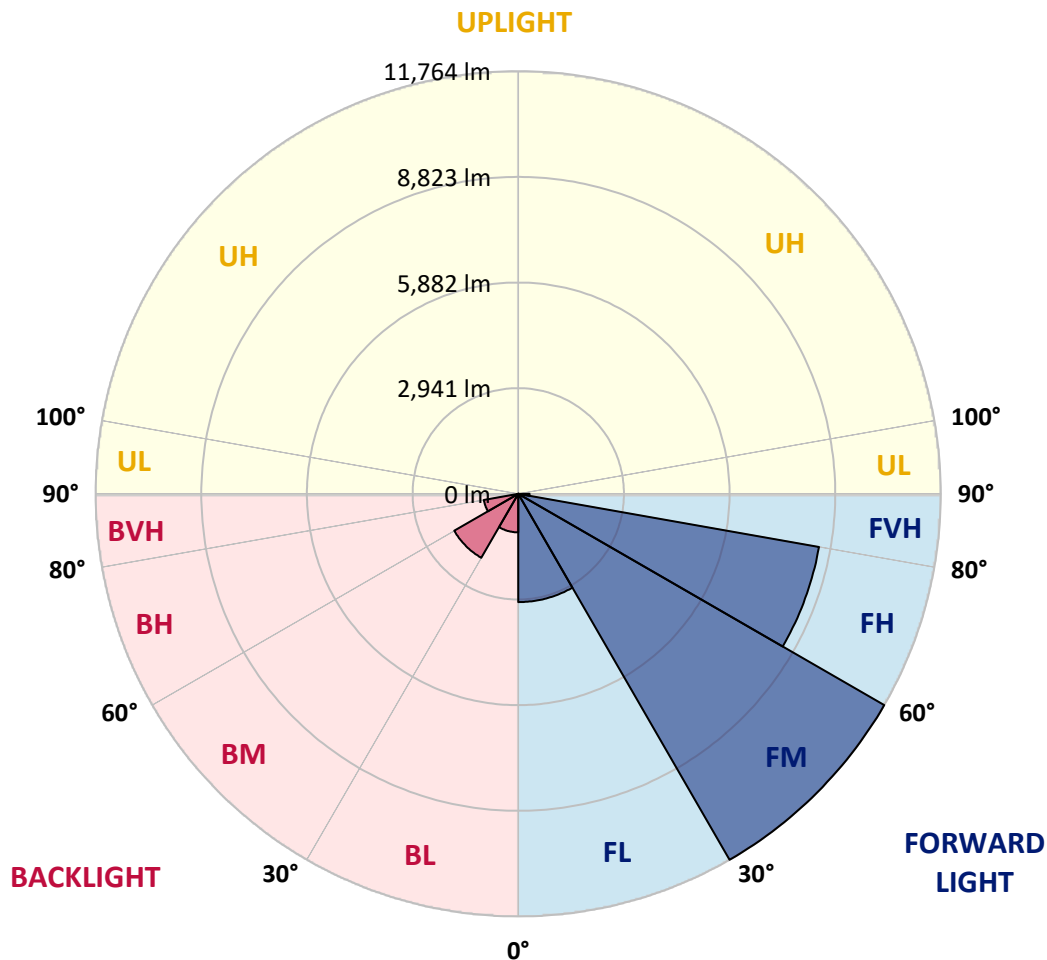
REPORT NUMBER: P651461
 CATALOG NUMBER: GALN-SA6D-840-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3014.8	10.9			
FM (30°-60°)	11764.0	42.5			
FH (60°-80°)	8501.4	30.7			G4/12000
FVH (80°-90°)	313.9	1.1			G3/500
BL (0°-30°)	1072.8	3.9	B3/2500		
BM (30°-60°)	2056.3	7.4	B2/2500		
BH (60°-80°)	973.2	3.5	B2/1000		G2/1000
BVH (80°-90°)	9.5	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-G4

Type III Short





REPORT NUMBER: P651461

CATALOG NUMBER: GALN-SA6D-840-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1
2.5°	10249.1	10232.0	10383.4	10630.8	10880.4	11010.5	10984.8	10974.1	10767.3	10615.9	10298.1
5°	10227.7	10315.2	10586.0	11255.7	11763.2	12008.5	12081.0	11776.0	11372.9	10788.6	10067.9
7.5°	9615.7	9724.5	10165.9	11213.1	12115.1	12648.2	12629.0	12140.7	11309.0	10404.8	9376.9
10°	8856.6	8984.5	9502.7	10773.7	11944.5	12648.2	12686.7	12068.2	11033.9	9873.8	8792.6
12.5°	8321.3	8472.7	9046.3	10364.2	11505.2	12198.3	12243.0	11795.2	10827.0	9669.1	8474.8
15°	8140.0	8282.8	8865.1	10157.4	11038.1	11411.4	11400.7	11353.8	10746.0	9718.1	8491.8
17.5°	8451.4	8568.6	9225.4	10251.2	10601.0	10562.6	10618.0	10844.1	10763.0	10129.7	9029.2
20°	9255.3	9374.7	10080.6	10539.2	10266.2	10023.0	10048.6	10426.1	10920.9	10903.8	9869.5
22.5°	10362.1	10564.7	11204.5	11097.8	10221.3	9688.2	9634.9	10125.4	11189.6	11795.2	11004.1
25°	11763.2	11967.9	12467.0	11989.3	10441.0	9609.4	9560.2	10033.7	11515.8	12665.3	12281.5
27.5°	12940.4	13096.1	13592.9	12857.2	10765.1	9643.4	9562.4	10046.5	11780.3	13405.3	13358.4
30°	13883.0	13998.1	14290.3	13262.4	11044.5	9792.7	9698.9	10234.1	11897.5	13765.7	14230.6
32.5°	14642.1	14836.2	14927.9	13695.3	11445.4	10074.3	9914.3	10594.6	12183.3	14211.4	15145.5
35°	15510.1	15734.0	15616.8	14109.0	11974.3	10513.5	10317.3	11178.9	12616.3	14623.0	16207.5
37.5°	16610.5	16868.6	16410.1	14544.1	12533.1	11174.6	11083.0	11999.9	13273.1	15211.6	17346.3
40°	17749.3	17898.6	17179.9	15073.0	13219.8	12136.4	12223.9	13219.8	14132.5	15917.4	18557.6
42.5°	18638.6	18779.4	17971.1	15516.5	13921.4	13277.4	13642.0	14691.3	15117.7	16640.4	19461.7
45°	19318.9	19438.3	18519.2	16000.6	14868.2	14930.1	15618.9	16207.5	16105.2	17081.8	20159.1
47.5°	19847.8	19950.1	18941.4	16520.9	16286.4	16951.7	18005.2	18254.7	17128.7	17559.5	20790.4
50°	20065.3	20095.1	19073.6	17184.2	17896.5	19527.9	20626.1	20474.7	18301.7	18090.5	21462.1
52.5°	20348.9	20342.5	19451.1	17815.4	19410.6	21831.0	22927.2	22583.9	19628.1	18886.0	22217.0
55°	21093.2	21101.7	20259.4	18711.1	20700.8	23690.6	24863.6	24614.1	21027.1	20229.5	23097.8
57.5°	21997.4	22029.4	21408.8	19758.2	21933.4	25038.4	26309.4	26213.5	22918.7	21724.4	23929.5
59°	22114.7	22178.7	21952.6	20496.1	22664.9	25452.1	26804.2	26898.0	23931.6	22709.7	24379.4
60°	21901.4	22008.0	22110.4	20914.1	23093.5	25601.4	26834.0	27017.5	24692.9	23379.3	24584.2
62.5°	20971.6	21140.1	21654.1	22200.0	23628.8	25136.5	25880.8	26264.6	25635.5	25138.7	24603.4
65°	19753.9	19841.4	20583.5	22428.1	22590.3	22965.6	23195.9	23688.5	24503.1	25816.8	23722.6
67.5°	17757.9	18015.9	18924.4	21103.8	19525.7	19082.2	19024.6	18534.1	20649.6	24200.3	21551.7
70°	14669.9	14785.0	15904.7	17301.5	14736.0	14053.6	14326.5	14143.2	16007.0	20833.0	17346.3
72.5°	11093.6	11353.8	12447.8	13791.3	10027.3	9142.3	9895.1	9826.8	12023.4	16742.7	11916.7
75°	7892.6	8061.1	9455.8	10792.9	7022.5	5949.8	6220.7	6474.4	8393.8	13219.8	7041.7
77.5°	5423.1	5568.1	6615.2	7137.7	5122.4	4907.1	4489.0	4734.3	5499.9	7843.6	3832.2
80°	3271.3	3264.9	3953.8	4081.7	3567.8	4143.6	3476.1	3902.6	3324.6	3356.7	1484.3
82.5°	2124.0	2102.7	2418.3	2635.9	1985.4	2087.8	1401.1	2019.6	2166.7	936.2	469.2
85°	951.1	991.6	1162.3	1533.3	870.1	462.8	285.8	620.6	923.4	471.3	0.0
87.5°	98.1	76.8	204.7	373.2	119.4	12.8	42.6	21.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1
2.5°	10151.0	10027.3	9658.4	9312.9	9016.4	8654.0	8419.3	8050.4	7826.5	7758.2	7768.9
5°	9743.7	9387.6	8685.9	8125.1	7500.2	7144.0	6602.4	6082.0	5800.5	5696.1	5649.2
7.5°	8890.6	8508.9	7662.3	6781.6	6111.9	5487.1	5084.0	4625.5	4312.1	4054.0	4009.2
10°	8257.3	7756.1	6706.9	5760.1	5231.2	4762.0	4359.0	3900.5	3531.5	3237.3	3156.2
12.5°	7877.6	7316.8	6146.0	5352.7	4851.6	4369.6	3845.1	3314.0	2936.5	2618.8	2471.6
15°	7809.4	7159.0	5988.3	5060.5	4442.2	3859.9	3162.6	2588.9	2200.8	1900.1	1808.4
17.5°	8221.0	7442.7	5964.8	4755.6	3906.9	3081.6	2356.5	1880.9	1443.7	1275.3	1209.2
20°	8954.6	7943.8	5962.6	4401.6	3356.7	2373.6	1654.8	1226.3	1049.2	968.2	929.8
22.5°	9954.8	8626.2	6075.6	4096.7	2785.1	1750.8	1181.4	976.7	874.4	808.2	793.3
25°	11176.7	9637.0	6352.9	3889.8	2348.0	1373.4	974.6	836.0	750.7	720.8	708.0
27.5°	12262.2	10605.3	6657.9	3676.5	2034.5	1215.6	904.2	765.6	697.4	673.9	654.7
30°	13198.4	11483.9	6805.0	3395.0	1782.8	1113.2	917.0	818.9	729.3	658.9	627.0
32.5°	13978.9	12157.7	6901.0	3139.1	1569.6	910.6	725.1	633.4	592.8	567.3	546.0
35°	14955.7	12887.1	6843.4	2994.1	1460.8	829.6	661.1	546.0	477.7	426.5	405.2
37.5°	15979.3	13616.4	6743.1	2874.7	1411.8	769.9	629.1	518.2	443.5	390.2	362.6
40°	17039.2	14292.5	6625.9	2763.8	1367.0	731.5	609.9	494.8	420.1	362.6	332.7
42.5°	18009.5	14951.4	6579.0	2691.3	1294.5	737.9	595.0	484.1	396.6	336.9	311.3
45°	18794.2	15576.2	6642.9	2652.9	1215.6	727.2	599.2	471.3	377.4	319.9	294.3
47.5°	19632.4	16459.1	6849.8	2614.5	1138.8	676.0	631.3	469.2	368.9	309.2	281.5
50°	20606.9	17589.3	7323.3	2520.7	1044.9	620.6	671.8	467.0	358.3	296.5	268.7
52.5°	21905.7	18873.2	7811.5	2356.5	908.4	567.3	641.9	460.6	336.9	281.5	253.8
55°	23072.2	20225.2	8225.3	2162.4	735.7	490.5	577.9	432.9	300.7	255.9	230.3
57.5°	23554.1	20988.7	8212.5	1893.7	588.6	430.8	475.6	396.6	262.3	226.1	204.7
59°	23377.1	20892.7	7937.4	1695.4	537.4	398.8	394.5	392.4	245.2	204.7	187.6
60°	23127.7	20542.9	7641.0	1597.3	505.4	377.4	362.6	388.1	230.3	191.9	174.8
62.5°	22172.3	19092.8	6657.9	1431.0	462.8	319.9	290.1	328.4	204.7	166.3	151.4
65°	20788.3	16864.3	5636.4	1384.0	449.9	264.4	240.9	234.6	174.8	140.8	127.9
67.5°	18088.4	14271.1	4565.8	1352.1	454.2	221.8	211.1	177.0	145.0	117.3	108.7
70°	14482.3	11127.7	3738.4	1315.8	458.5	181.2	177.0	140.8	117.3	98.1	89.6
72.5°	8799.0	6596.0	2942.9	1143.1	445.7	145.0	157.8	106.6	85.3	70.4	66.1
75°	5440.2	4514.7	1825.5	889.3	294.3	106.6	110.9	66.1	57.6	44.8	44.8
77.5°	3151.9	2851.2	652.5	319.9	130.1	64.0	49.0	34.1	32.0	19.2	19.2
80°	1307.3	1047.1	226.1	108.7	70.4	29.9	10.7	2.1	0.0	0.0	0.0
82.5°	381.7	339.1	61.8	49.0	21.4	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1
2.5°	7587.7	7517.3	7485.3	7594.1	7493.8	7621.8	7523.7	7566.3	7692.1	7747.6	7890.5
5°	5679.0	5606.5	5572.4	5736.6	5728.1	5809.1	5800.5	5875.2	5939.2	5796.3	5943.4
7.5°	3955.9	3906.9	3987.9	4115.9	4252.3	4207.5	4207.5	4107.3	4141.4	4120.1	4113.8
10°	3009.0	2840.6	2797.9	2793.6	2844.9	2855.5	2797.9	2659.3	2710.5	2725.4	2815.0
12.5°	2367.2	2237.1	2038.8	1949.2	1925.7	1944.9	1755.1	1633.6	1691.1	1657.0	1744.4
15°	1697.6	1590.9	1473.6	1373.4	1345.7	1307.3	1100.4	955.4	938.3	944.7	959.7
17.5°	1211.3	1138.8	1138.8	1032.2	974.6	859.4	755.0	691.0	684.6	691.0	701.6
20°	893.6	855.1	850.9	823.2	759.2	682.4	609.9	597.1	592.8	603.5	607.8
22.5°	769.9	729.3	695.3	693.1	633.4	569.4	535.3	518.2	520.3	524.6	535.3
25°	688.8	646.1	609.9	588.6	546.0	501.2	469.2	460.6	460.6	467.0	469.2
27.5°	631.3	577.9	546.0	516.1	477.7	439.3	411.6	405.2	400.9	405.2	415.9
30°	590.7	537.4	496.9	452.1	422.3	386.0	362.6	354.0	351.9	354.0	362.6
32.5°	505.4	473.4	441.4	400.9	364.7	341.2	315.6	300.7	300.7	304.9	313.5
35°	381.7	364.7	362.6	351.9	322.0	296.5	266.6	251.6	251.6	260.2	264.4
37.5°	336.9	304.9	300.7	296.5	283.7	249.5	221.8	209.0	206.9	213.3	221.8
40°	307.0	270.8	251.6	247.3	249.5	211.1	181.2	168.5	168.5	170.6	179.1
42.5°	283.7	240.9	206.9	202.6	211.1	177.0	147.2	134.4	134.4	134.4	145.0
45°	264.4	215.4	174.8	153.6	166.3	145.0	119.4	106.6	102.3	106.6	110.9
47.5°	251.6	196.2	153.6	123.7	123.7	115.1	96.0	81.1	76.8	78.9	85.3
50°	240.9	179.1	130.1	100.2	89.6	91.7	72.5	61.8	57.6	57.6	64.0
52.5°	224.0	162.1	113.0	85.3	68.2	61.8	53.3	44.8	42.6	44.8	49.0
55°	202.6	147.2	98.1	70.4	53.3	42.6	38.3	32.0	29.9	32.0	38.3
57.5°	179.1	123.7	78.9	55.4	36.2	27.8	25.6	21.4	17.1	19.2	23.5
59°	164.2	110.9	68.2	44.8	27.8	19.2	19.2	15.0	10.7	12.8	19.2
60°	157.8	102.3	57.6	38.3	23.5	15.0	15.0	10.7	6.4	8.5	15.0
62.5°	134.4	85.3	44.8	23.5	10.7	2.1	6.4	2.1	0.0	2.1	6.4
65°	113.0	68.2	29.9	10.7	0.0	0.0	0.0	0.0	0.0	0.0	2.1
67.5°	93.9	51.2	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	74.7	34.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	51.2	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	32.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.8	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: P651461
 CATALOG NUMBER: GALN-SA6D-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1
2.5°	7899.0	8204.0	8391.7	8745.6	9108.2	9387.6	9737.3	10050.8	10180.9	10249.1
5°	6092.7	6517.1	6877.5	7417.0	7918.2	8528.1	9146.5	9875.9	10155.2	10227.7
7.5°	4275.8	4708.7	5086.2	5711.0	6425.4	7242.2	8167.7	9093.2	9500.5	9615.7
10°	3088.0	3550.7	4011.3	4636.2	5303.7	6188.7	7152.6	8297.8	8767.0	8856.6
12.5°	1949.2	2446.0	3194.5	3966.6	4672.4	5384.8	6393.5	7638.8	8157.0	8321.3
15°	1130.2	1501.4	2066.4	3073.0	3970.9	4913.5	6013.8	7391.5	7971.5	8140.0
17.5°	757.1	885.0	1273.1	2043.0	3228.7	4478.4	5917.9	7594.1	8236.0	8451.4
20°	637.6	695.3	831.7	1245.4	2486.6	4090.3	5943.4	8144.2	8986.6	9255.3
22.5°	560.9	614.2	701.6	895.7	1735.9	3608.3	6065.0	8931.2	10018.7	10362.1
25°	494.8	548.1	624.9	742.1	1166.6	3051.7	6331.6	10082.7	11385.7	11763.2
27.5°	439.3	488.4	554.5	654.7	897.8	2431.2	6568.3	11204.5	12633.3	12940.4
30°	388.1	428.7	492.7	569.4	746.4	1874.5	6687.7	12185.5	13541.8	13883.0
32.5°	336.9	375.3	437.2	499.0	614.2	1428.8	6604.5	12906.2	14424.7	14642.1
35°	287.9	328.4	379.6	437.2	531.0	1153.7	6188.7	13716.6	15339.5	15510.1
37.5°	247.3	281.5	334.8	379.6	479.8	923.4	5685.4	14445.9	16365.3	16610.5
40°	209.0	243.1	296.5	336.9	441.4	727.2	5231.2	15256.3	17446.5	17749.3
42.5°	170.6	211.1	258.0	324.1	379.6	554.5	4681.0	15913.1	18259.0	18638.6
45°	136.5	181.2	232.5	322.0	330.5	422.3	4150.0	16425.0	18977.7	19318.9
47.5°	108.7	153.6	224.0	300.7	270.8	334.8	3847.2	16960.3	19574.8	19847.8
50°	87.5	127.9	234.6	264.4	226.1	283.7	3838.6	17557.4	19884.0	20065.3
52.5°	70.4	104.5	198.3	202.6	191.9	249.5	4068.9	18229.2	20199.6	20348.9
55°	59.7	87.5	130.1	149.3	172.7	226.1	4241.7	19263.4	20952.4	21093.2
57.5°	46.9	74.7	100.2	119.4	153.6	206.9	4265.1	20061.0	21905.7	21997.4
59°	40.5	64.0	89.6	106.6	140.8	194.1	4169.2	20110.1	21967.5	22114.7
60°	34.1	57.6	78.9	100.2	130.1	183.4	4064.6	19753.9	21737.2	21901.4
62.5°	25.6	44.8	57.6	81.1	106.6	157.8	3569.9	18510.7	20856.5	20971.6
65°	17.1	32.0	42.6	59.7	83.2	136.5	2908.9	16898.5	19495.9	19753.9
67.5°	10.7	23.5	34.1	44.8	68.2	115.1	2072.8	14490.8	17591.5	17757.9
70°	6.4	15.0	25.6	36.2	53.3	91.7	1230.5	11454.0	14635.8	14669.9
72.5°	4.3	10.7	17.1	25.6	42.6	83.2	597.1	7466.1	10686.3	11093.6
75°	2.1	6.4	10.7	19.2	34.1	68.2	285.8	4988.1	7775.3	7892.6
77.5°	0.0	2.1	6.4	12.8	25.6	53.3	166.3	3275.6	5301.6	5423.1
80°	0.0	0.0	4.3	10.7	19.2	34.1	100.2	1932.1	3211.6	3271.3
82.5°	0.0	0.0	2.1	8.5	12.8	25.6	51.2	848.7	2102.7	2124.0
85°	0.0	0.0	2.1	8.5	10.7	17.1	19.2	115.1	934.1	951.1
87.5°	0.0	0.0	2.1	10.7	10.7	10.7	10.7	6.4	78.9	98.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)