

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: P530629

Luminaire Tested: **GALN-SA5D-760-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530629
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-SA5D-760-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 21417 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

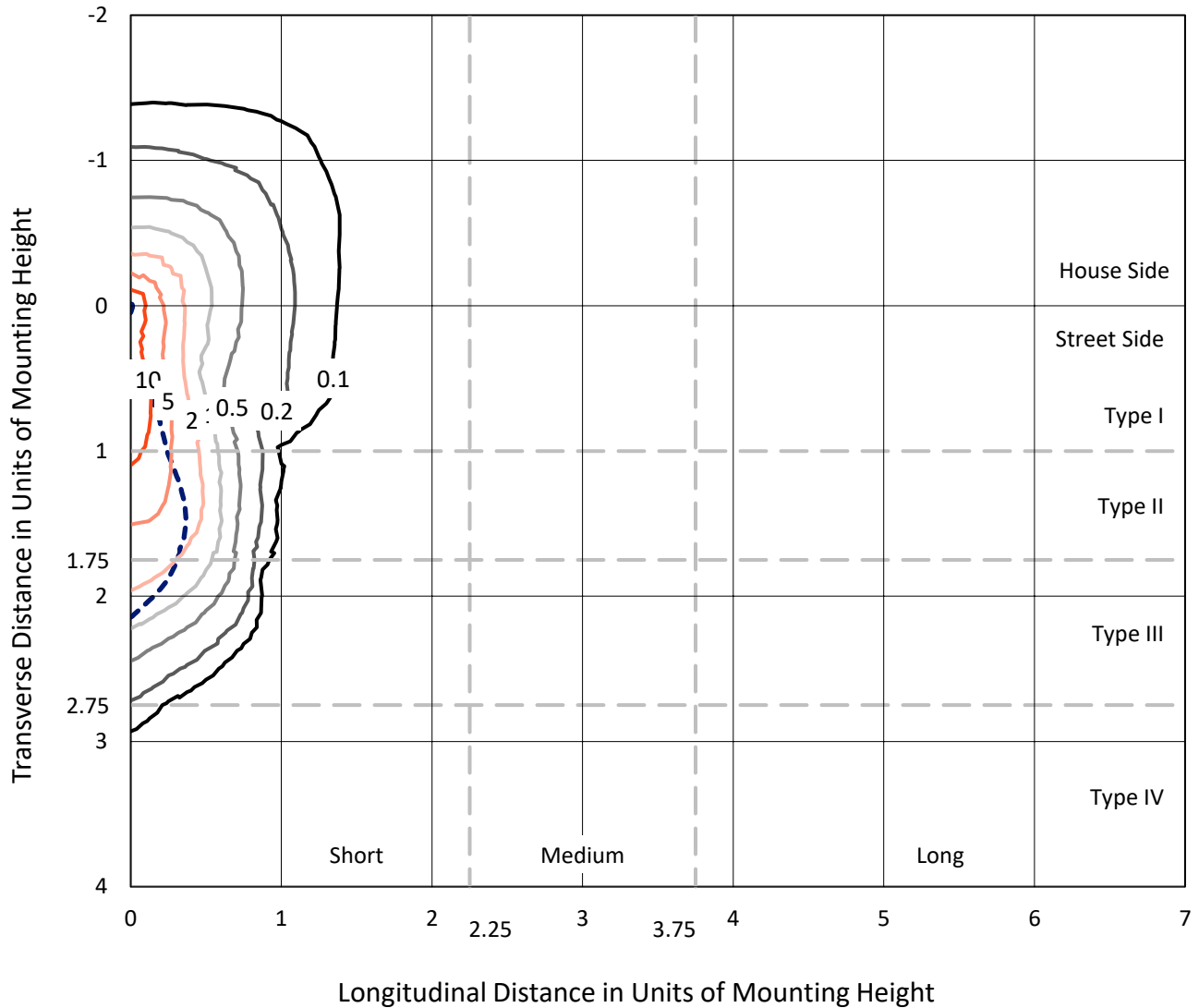
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

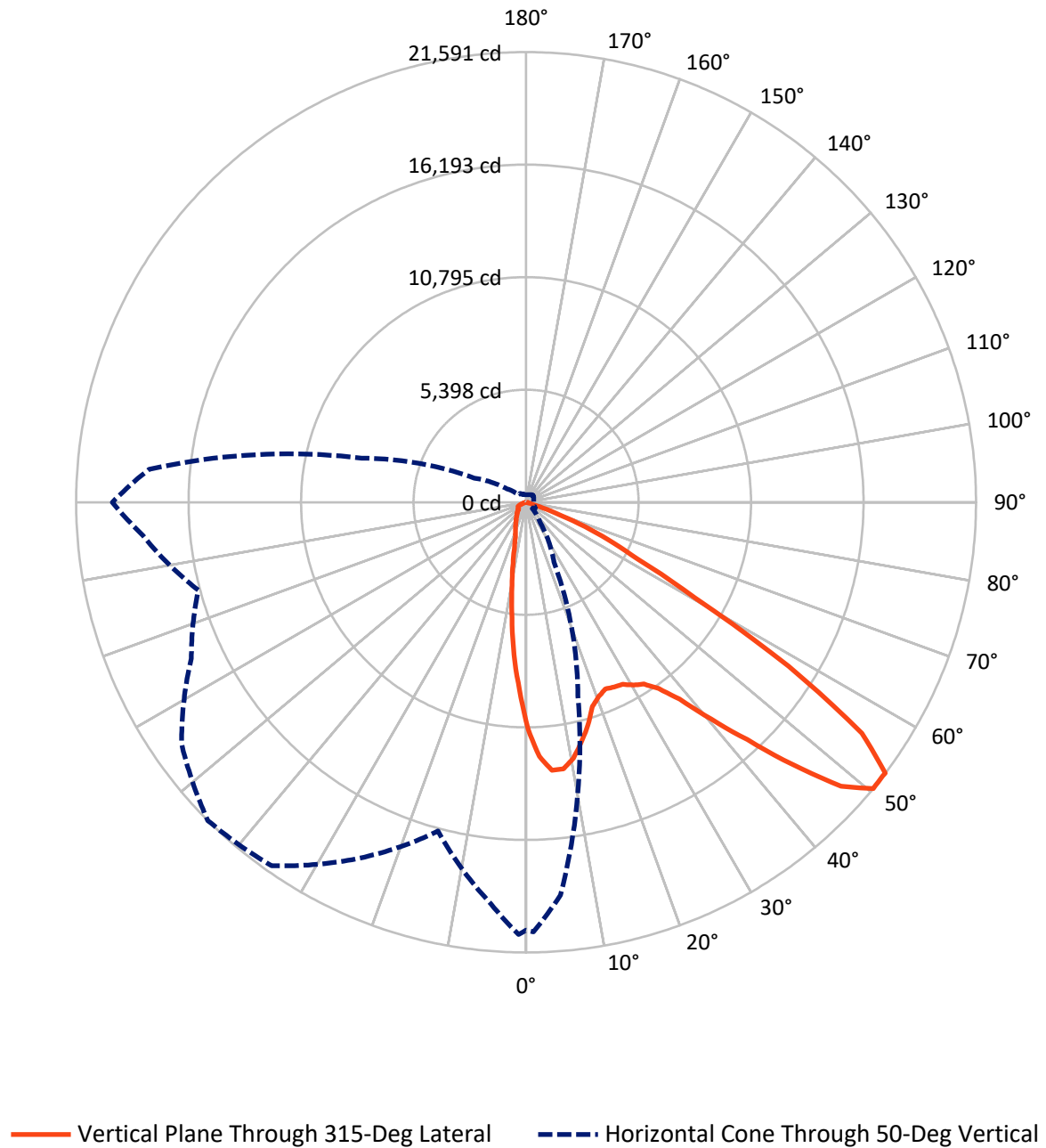
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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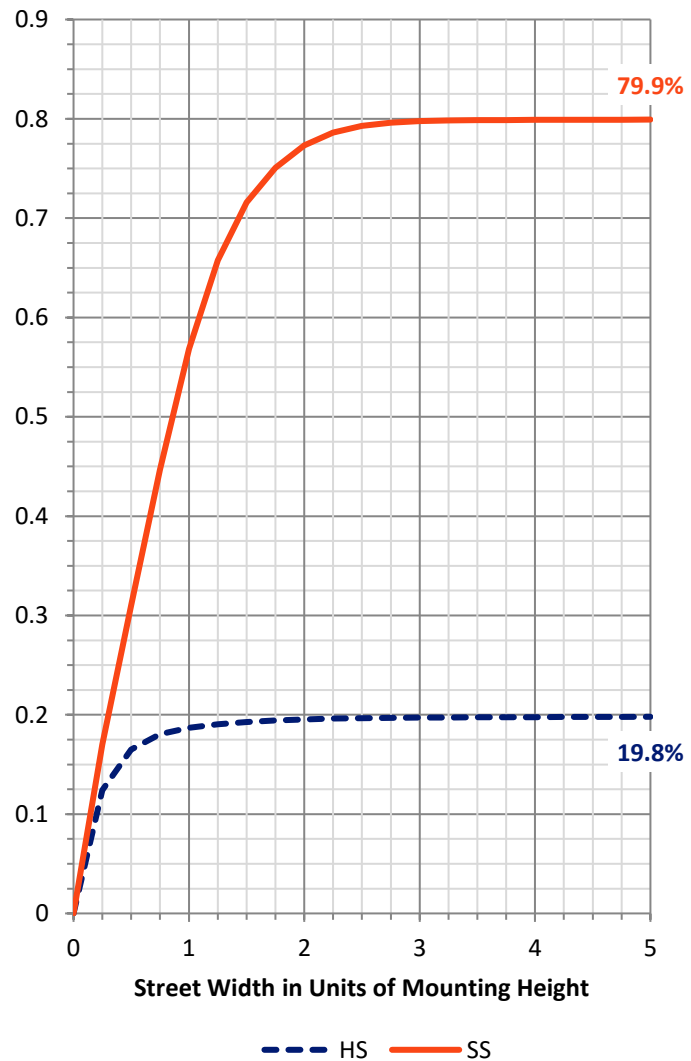
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4289.8	0.0	4289.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	17127.2	0.0	17127.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	21417.0	0.0	21417.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.7	3.7
10°-20°	1573.4	7.3
20°-30°	2363.7	11.0
30°-40°	3547.9	16.6
40°-50°	4986.3	23.3
50°-60°	5378.6	25.1
60°-70°	2497.3	11.7
70°-80°	235.0	1.1
80°-90°	43.3	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°	21417.0	100.0
0°-180°	21417.0	100.0



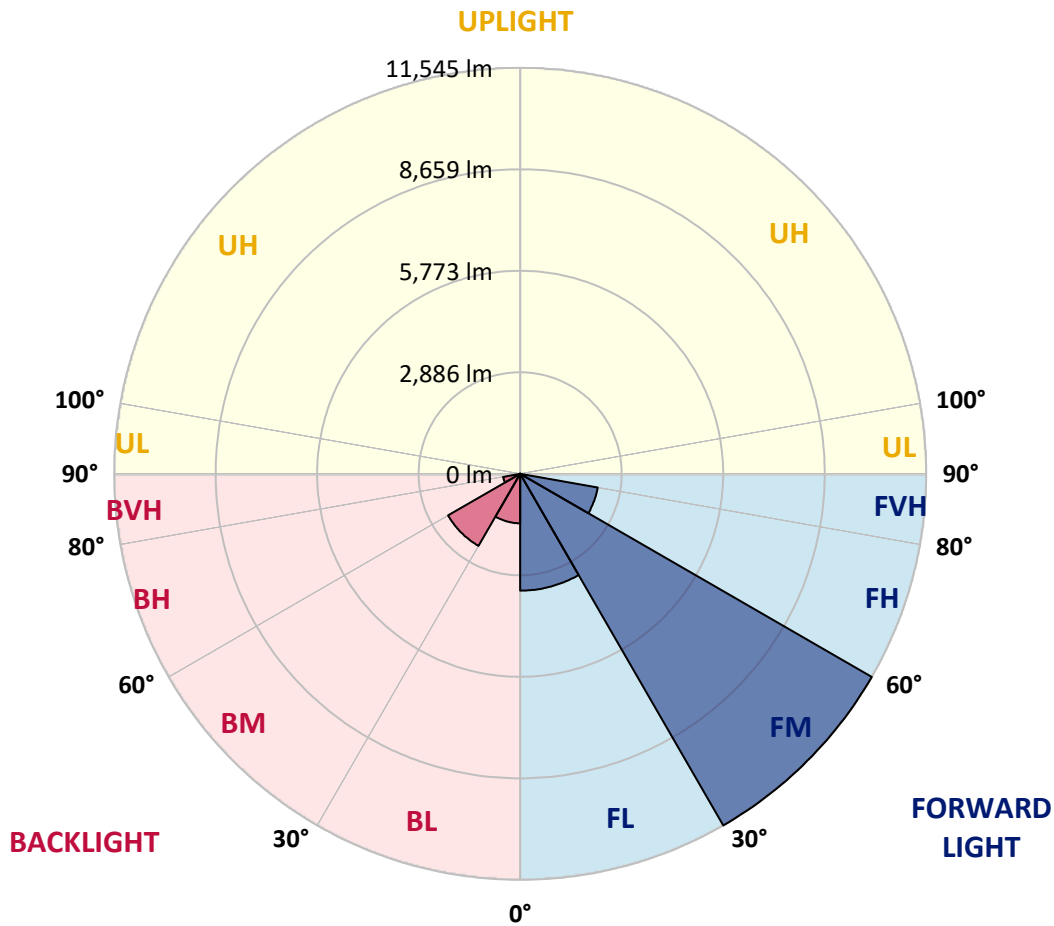
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3322.7	15.5			
FM (30°-60°)	11545.4	53.9			
FH (60°-80°)	2239.6	10.5			G2/5000
FVH (80°-90°)	19.5	0.1			G1/100
BL (0°-30°)	1406.1	6.6	B3/2500		
BM (30°-60°)	2367.3	11.1	B2/2500		
BH (60°-80°)	492.6	2.3	B1/500		G1/500
BVH (80°-90°)	23.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1
2.5°	11290.3	11116.1	10895.1	10712.4	10440.4	9892.3	9743.6	9565.1	9416.4	9216.7	8936.2
5°	10266.2	10211.0	10109.0	9420.6	8923.5	8260.6	7716.7	7487.2	7185.5	6939.0	6760.6
7.5°	9484.4	9263.4	8940.5	8247.8	7453.2	6743.6	6140.2	5787.5	5388.1	5252.1	5009.9
10°	8647.3	8698.2	8222.3	7249.2	6288.9	5715.3	5341.3	5001.4	4640.2	4402.2	4058.0
12.5°	8379.5	8213.8	7848.4	6645.8	5825.7	5290.3	4835.7	4415.0	4032.6	3650.1	3318.7
15°	8553.8	8298.8	7788.9	6518.4	5468.8	4801.7	4232.3	3662.9	3310.2	2821.5	2477.3
17.5°	9178.4	8974.4	8290.3	6654.3	5286.1	4334.2	3488.6	2902.2	2362.6	1920.7	1746.4
20°	10219.5	9930.5	9072.2	6828.6	5014.1	3769.1	2830.0	2107.6	1597.7	1410.8	1313.0
22.5°	11239.3	11082.1	9998.5	7164.3	4771.9	3267.7	2124.6	1419.3	1194.0	1160.0	1096.3
25°	13181.2	12709.5	11413.5	7771.9	4585.0	2796.0	1602.0	1143.1	1011.3	985.8	994.3
27.5°	14337.0	13941.8	12722.3	8175.6	4376.7	2434.8	1355.5	1049.6	960.3	905.1	883.8
30°	15446.1	14987.2	13372.4	8413.5	3930.6	2052.4	1202.5	1007.1	985.8	905.1	879.6
32.5°	16300.2	15849.8	14311.5	8770.5	3747.9	1805.9	990.1	786.1	730.9	722.4	798.9
35°	17608.9	17128.8	15114.6	8965.9	3607.6	1678.5	858.4	701.1	637.4	611.9	616.1
37.5°	18828.5	18501.3	15858.3	9042.4	3458.9	1640.2	769.1	628.9	573.7	556.7	552.4
40°	19848.3	19117.4	16563.6	9123.2	3395.2	1568.0	713.9	573.7	535.4	509.9	509.9
42.5°	20315.7	19572.1	17354.0	9076.4	3378.2	1453.2	713.9	526.9	497.2	471.7	467.4
45°	20213.7	19912.1	17706.7	9055.2	3378.2	1338.5	650.1	514.2	471.7	437.7	429.2
47.5°	20477.2	20082.0	18148.6	9144.4	3310.2	1257.8	548.2	539.7	446.2	403.7	395.2
50°	20523.9	20600.4	18917.7	9607.6	3161.5	1155.8	429.2	531.2	429.2	365.4	356.9
52°	20829.9	20354.0	19151.4	9854.0	3004.2	1079.3	361.2	454.7	412.2	339.9	331.4
52.5°	20409.2	20719.4	19206.7	9943.3	3021.2	1028.3	348.4	446.2	403.7	339.9	318.7
55°	19937.5	20235.0	18981.5	10134.5	2770.5	807.4	272.0	322.9	365.4	297.4	284.7
57.5°	17328.5	17630.2	16495.6	9280.4	2256.4	569.4	225.2	242.2	322.9	276.2	263.5
60°	15403.6	15186.9	13844.1	7742.2	1602.0	318.7	178.5	187.0	352.7	255.0	250.7
62.5°	14077.8	13614.6	11570.7	5978.7	977.3	212.5	140.2	144.5	272.0	238.0	238.0
65°	10414.9	9896.5	7686.9	3616.1	480.2	148.7	106.2	114.7	170.0	204.0	204.0
67.5°	5944.7	5745.0	3713.9	1631.7	199.7	93.5	80.7	89.2	131.7	165.7	157.2
70°	2732.3	2451.8	1427.8	344.2	93.5	63.7	63.7	72.2	106.2	123.2	114.7
72.5°	798.9	756.4	348.4	55.2	38.2	38.2	42.5	55.2	80.7	93.5	85.0
75°	59.5	38.2	25.5	17.0	17.0	25.5	34.0	55.2	80.7	89.2	72.2
77.5°	4.2	8.5	4.2	4.2	12.7	25.5	38.2	68.0	106.2	110.5	80.7
80°	4.2	4.2	0.0	4.2	12.7	25.5	42.5	76.5	119.0	127.5	68.0
82.5°	0.0	0.0	0.0	4.2	17.0	34.0	51.0	80.7	110.5	136.0	72.2
85°	0.0	0.0	0.0	4.2	25.5	46.7	59.5	21.2	12.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1
2.5°	9135.9	9025.4	8982.9	9021.2	9008.4	8995.7	9229.4	9178.4	9169.9	9246.4	9229.4
5°	6858.3	6662.8	7198.3	6981.5	7206.8	7342.7	7368.2	7381.0	7538.2	7372.5	7589.2
7.5°	4886.7	4937.6	4933.4	5077.9	5337.1	5566.5	5702.5	5596.3	5587.8	5566.5	5473.1
10°	3905.1	3815.8	3798.8	3764.8	3845.6	4041.1	4206.8	4075.0	3981.6	4109.0	4070.8
12.5°	3191.2	3068.0	3000.0	2864.0	2868.3	3000.0	3000.0	3000.0	3093.5	3165.7	3220.9
15°	2447.6	2345.6	2345.6	2209.6	2179.9	2184.1	2252.1	2260.6	2409.3	2451.8	2473.1
17.5°	1712.5	1657.2	1721.0	1776.2	1742.2	1750.7	1776.2	1784.7	1805.9	1788.9	1831.4
20°	1317.3	1308.8	1325.8	1423.5	1495.7	1538.2	1508.5	1466.0	1440.5	1381.0	1381.0
22.5°	1117.6	1134.6	1164.3	1245.0	1338.5	1364.0	1330.0	1232.3	1155.8	1147.3	1151.6
25°	994.3	1011.3	1058.1	1109.1	1160.0	1202.5	1168.5	1096.3	1053.8	1015.6	1015.6
27.5°	917.8	926.3	951.8	990.1	1032.6	1066.6	1053.8	1015.6	968.8	951.8	913.6
30°	858.4	871.1	900.8	909.3	947.6	964.6	943.3	934.8	905.1	883.8	871.1
32.5°	828.6	824.4	845.6	854.1	858.4	871.1	845.6	858.4	854.1	820.1	807.4
35°	624.6	658.6	713.9	760.6	773.4	790.4	786.1	769.1	722.4	684.1	637.4
37.5°	560.9	582.1	611.9	650.1	701.1	722.4	713.9	671.4	616.1	590.6	582.1
40°	518.4	531.2	556.7	582.1	633.1	671.4	641.6	603.4	560.9	539.7	526.9
42.5°	480.2	484.4	497.2	522.7	560.9	620.4	569.4	518.4	501.4	488.7	480.2
45°	437.7	437.7	454.7	467.4	509.9	565.2	514.2	467.4	458.9	450.4	446.2
47.5°	403.7	407.9	416.4	433.4	467.4	505.7	471.7	433.4	412.2	407.9	399.4
50°	361.2	365.4	382.4	399.4	441.9	463.2	441.9	399.4	378.2	365.4	365.4
52°	327.2	339.9	356.9	390.9	420.7	454.7	429.2	382.4	356.9	344.2	335.7
52.5°	322.9	331.4	348.4	386.7	420.7	450.4	424.9	378.2	348.4	339.9	331.4
55°	288.9	301.7	331.4	378.2	416.4	450.4	416.4	373.9	331.4	310.2	301.7
57.5°	276.2	284.7	322.9	382.4	412.2	450.4	416.4	373.9	331.4	293.2	284.7
60°	263.5	280.5	322.9	369.7	407.9	454.7	420.7	369.7	322.9	276.2	276.2
62.5°	250.7	263.5	318.7	361.2	390.9	437.7	403.7	361.2	310.2	263.5	259.2
65°	216.7	238.0	280.5	301.7	335.7	378.2	344.2	314.4	272.0	233.7	229.5
67.5°	165.7	174.2	208.2	233.7	255.0	293.2	276.2	238.0	208.2	178.5	178.5
70°	114.7	123.2	148.7	161.5	182.7	204.0	191.2	161.5	140.2	123.2	119.0
72.5°	80.7	85.0	93.5	102.0	110.5	119.0	114.7	93.5	80.7	76.5	72.2
75°	63.7	72.2	76.5	72.2	68.0	63.7	63.7	55.2	46.7	42.5	42.5
77.5°	63.7	68.0	63.7	55.2	46.7	42.5	38.2	34.0	25.5	21.2	25.5
80°	55.2	55.2	55.2	46.7	42.5	38.2	34.0	29.7	25.5	21.2	21.2
82.5°	59.5	59.5	55.2	46.7	46.7	38.2	38.2	34.0	29.7	21.2	21.2
85°	0.0	0.0	0.0	8.5	21.2	38.2	38.2	34.0	29.7	25.5	25.5
87.5°	0.0	0.0	0.0	0.0	4.2	8.5	17.0	21.2	25.5	25.5	25.5
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°	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1
2.5°	9382.4	9543.8	9849.8	10155.7	10342.7	10563.7	10963.1	11175.6	11451.8	11587.7	11855.4
5°	7559.4	7941.9	8077.9	8426.3	8800.2	9174.2	9769.1	10423.4	10967.4	11341.3	11825.7
7.5°	5515.5	5604.8	6131.7	6365.4	6977.3	7657.2	8468.8	9293.1	9981.5	10593.4	10963.1
10°	4134.5	4461.7	4793.2	5239.3	5732.3	6433.4	7211.0	8120.3	9012.7	9624.6	10092.0
12.5°	3322.9	3582.1	4024.1	4504.2	5111.9	5575.0	6356.9	7257.7	8413.5	9012.7	9628.8
15°	2515.6	2847.0	3348.4	3845.6	4487.2	4975.9	5766.3	6900.8	8388.0	9212.4	9743.6
17.5°	1865.4	2090.6	2541.1	3097.7	3752.1	4440.5	5507.0	6862.6	8672.7	9654.3	10202.5
20°	1427.8	1504.2	1788.9	2286.1	2995.7	3896.6	5086.4	7028.3	9514.1	10729.4	11286.0
22.5°	1155.8	1189.8	1300.3	1644.5	2332.8	3420.7	4886.7	7143.0	10461.7	12016.9	12760.5
25°	1007.1	998.6	1070.8	1219.5	1822.9	2974.5	4631.7	7576.4	11621.7	13529.7	14196.8
27.5°	917.8	917.8	951.8	1058.1	1512.7	2685.5	4470.2	7886.6	12790.3	14859.7	15220.9
30°	871.1	879.6	977.3	1011.3	1257.8	2341.3	4202.5	8201.1	13907.8	15709.5	16206.7
32.5°	807.4	773.4	752.1	837.1	1058.1	2031.1	3934.8	8332.8	14812.9	16750.6	17175.5
35°	620.4	603.4	628.9	692.6	909.3	1767.7	3637.4	8481.5	15854.0	17957.4	18042.4
37.5°	560.9	556.7	573.7	628.9	764.9	1538.2	3424.9	8443.3	16648.6	18956.0	18726.5
40°	518.4	518.4	531.2	577.9	684.1	1376.8	3203.9	8409.3	17417.7	20077.8	19406.4
42.5°	484.4	484.4	505.7	535.4	650.1	1270.5	3038.2	8362.6	18063.6	20766.2	19805.8
45°	437.7	450.4	484.4	514.2	658.6	1198.3	2915.0	8184.1	18284.6	20757.7	19614.6
47.5°	403.7	420.7	454.7	497.2	594.9	1177.0	2830.0	8026.9	18208.1	20247.7	19015.5
50°	365.4	386.7	433.4	505.7	505.7	1134.6	2740.8	8167.1	18152.9	19852.6	18441.8
52°	339.9	356.9	416.4	492.9	441.9	1045.3	2685.5	8439.0	18378.1	19801.6	18186.8
52.5°	335.7	348.4	403.7	484.4	420.7	1028.3	2647.3	8502.8	18450.3	19674.1	18361.1
55°	297.4	314.4	369.7	378.2	344.2	845.6	2524.1	8647.3	18093.4	19423.4	18195.3
57.5°	280.5	288.9	327.2	310.2	297.4	637.4	2171.4	8422.0	16070.7	17252.0	16929.1
60°	259.2	267.7	305.9	242.2	250.7	446.2	1631.7	7313.0	12905.0	14375.3	14957.4
62.5°	250.7	246.5	288.9	195.5	212.5	322.9	1151.6	5944.7	9943.3	11834.2	12841.3
65°	221.0	216.7	208.2	165.7	182.7	250.7	688.4	3879.6	7007.0	8953.2	9505.6
67.5°	170.0	178.5	153.0	131.7	153.0	195.5	382.4	1737.9	3675.6	5371.1	5817.2
70°	119.0	127.5	123.2	114.7	136.0	161.5	221.0	594.9	1521.2	2821.5	3110.5
72.5°	72.2	89.2	93.5	97.7	119.0	140.2	157.2	191.2	403.7	998.6	1240.8
75°	42.5	59.5	72.2	85.0	97.7	119.0	131.7	136.0	140.2	187.0	301.7
77.5°	29.7	42.5	63.7	80.7	97.7	119.0	140.2	148.7	140.2	131.7	140.2
80°	25.5	42.5	59.5	76.5	102.0	123.2	140.2	140.2	136.0	119.0	127.5
82.5°	25.5	42.5	63.7	80.7	97.7	119.0	136.0	140.2	127.5	119.0	123.2
85°	29.7	46.7	68.0	85.0	106.2	97.7	89.2	72.2	68.0	55.2	59.5
87.5°	29.7	42.5	42.5	46.7	51.0	51.0	51.0	46.7	38.2	34.0	34.0
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: P530629

CATALOG NUMBER: GALN-SA5D-760-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1	10861.1
2.5°	11868.2	12208.1	12195.4	12203.9	12152.9	11808.7	11643.0	11222.3	11341.3	11290.3
5°	12322.9	12658.6	12947.5	12913.5	12522.6	12055.2	11362.5	10708.1	10529.7	10266.2
7.5°	11868.2	12675.6	12943.3	12905.0	12327.1	11728.0	10623.2	9968.8	9658.6	9484.4
10°	11145.8	12080.7	12412.1	12480.1	12089.2	11179.8	10164.2	9114.7	8948.9	8647.3
12.5°	10733.6	11413.5	11617.5	11800.2	11664.2	10984.3	9815.8	8808.7	8579.3	8379.5
15°	10397.9	10801.6	10886.6	11094.8	11175.6	10810.1	9998.5	9140.2	8575.0	8553.8
17.5°	10708.1	10542.4	10232.2	10296.0	10550.9	10814.4	10470.2	9794.6	9246.4	9178.4
20°	11222.3	10491.4	9790.3	9947.5	10160.0	10967.4	11184.1	10708.1	10393.7	10219.5
22.5°	11813.0	10580.7	9650.1	9726.6	10130.2	11311.5	12339.9	12076.4	11490.0	11239.3
25°	12905.0	10827.1	9760.6	9811.6	10364.0	11791.7	13385.2	13580.6	13232.2	13181.2
27.5°	13971.6	11464.5	10002.8	9888.0	10482.9	12259.1	14018.3	15067.9	14456.0	14337.0
30°	14515.5	11982.9	10364.0	10168.5	10975.8	12543.8	14400.8	16036.7	15501.3	15446.1
32.5°	15348.3	12454.6	10644.4	10393.7	11252.1	12896.5	15114.6	17094.8	16576.4	16300.2
35°	15696.8	12968.8	11260.5	10967.4	12042.4	13389.4	15480.1	18038.1	17876.7	17608.9
37.5°	16368.2	13521.2	11987.2	11970.2	12998.5	14031.1	16138.7	19321.4	19291.7	18828.5
40°	16423.4	14124.6	13134.5	13669.9	14477.2	15148.6	16716.6	19678.3	20162.8	19848.3
42.5°	16508.4	15182.6	15118.9	15560.8	16253.4	16109.0	16737.9	19763.3	20502.7	20315.7
45°	16546.6	16240.7	17137.3	17953.1	18242.1	17366.7	16538.1	19601.9	20681.2	20213.7
47.5°	16240.7	17150.0	18769.0	20345.5	20430.5	18140.1	16453.2	19436.1	20787.4	20477.2
50°	16283.2	17719.4	20179.8	21590.5	21280.3	18824.2	16321.4	19334.2	20732.2	20523.9
52°	16181.2	17732.2	20379.5	21565.0	21348.3	18446.1	16096.2	18943.2	20681.2	20829.9
52.5°	16295.9	17655.7	20171.3	21582.0	21301.6	18633.0	16066.5	19159.9	20710.9	20409.2
55°	15900.7	16746.3	18951.7	19550.9	19508.4	16912.1	15152.9	18441.8	19933.3	19937.5
57.5°	14371.0	14515.5	14863.9	14851.2	14655.7	13295.9	12960.3	16958.8	17770.4	17328.5
60°	12662.8	10627.4	9688.3	9305.9	9089.2	8868.2	11464.5	15514.1	15590.5	15403.6
62.5°	10941.9	7368.2	6118.9	6012.7	6063.7	6871.1	11082.1	14940.4	14481.5	14077.8
65°	8830.0	5371.1	4444.7	4304.5	4801.7	5672.8	8970.2	11456.0	10750.6	10414.9
67.5°	5545.3	3917.8	3004.2	2740.8	3339.9	3905.1	5893.7	7198.3	6407.9	5944.7
70°	3288.9	2188.4	1359.8	1219.5	1372.5	2082.1	3301.7	3590.6	2970.2	2732.3
72.5°	1296.0	803.1	378.2	322.9	335.7	730.9	1215.3	1185.5	896.6	798.9
75°	348.4	242.2	131.7	106.2	89.2	136.0	195.5	127.5	46.7	59.5
77.5°	161.5	144.5	114.7	89.2	68.0	51.0	25.5	8.5	8.5	4.2
80°	140.2	123.2	106.2	89.2	68.0	42.5	21.2	4.2	4.2	4.2
82.5°	131.7	114.7	97.7	80.7	63.7	42.5	21.2	4.2	0.0	0.0
85°	55.2	72.2	80.7	76.5	68.0	42.5	21.2	4.2	0.0	0.0
87.5°	29.7	25.5	21.2	17.0	12.7	8.5	8.5	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)