

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: P453742

Luminaire Tested: **GALN-SA4D-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21977 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

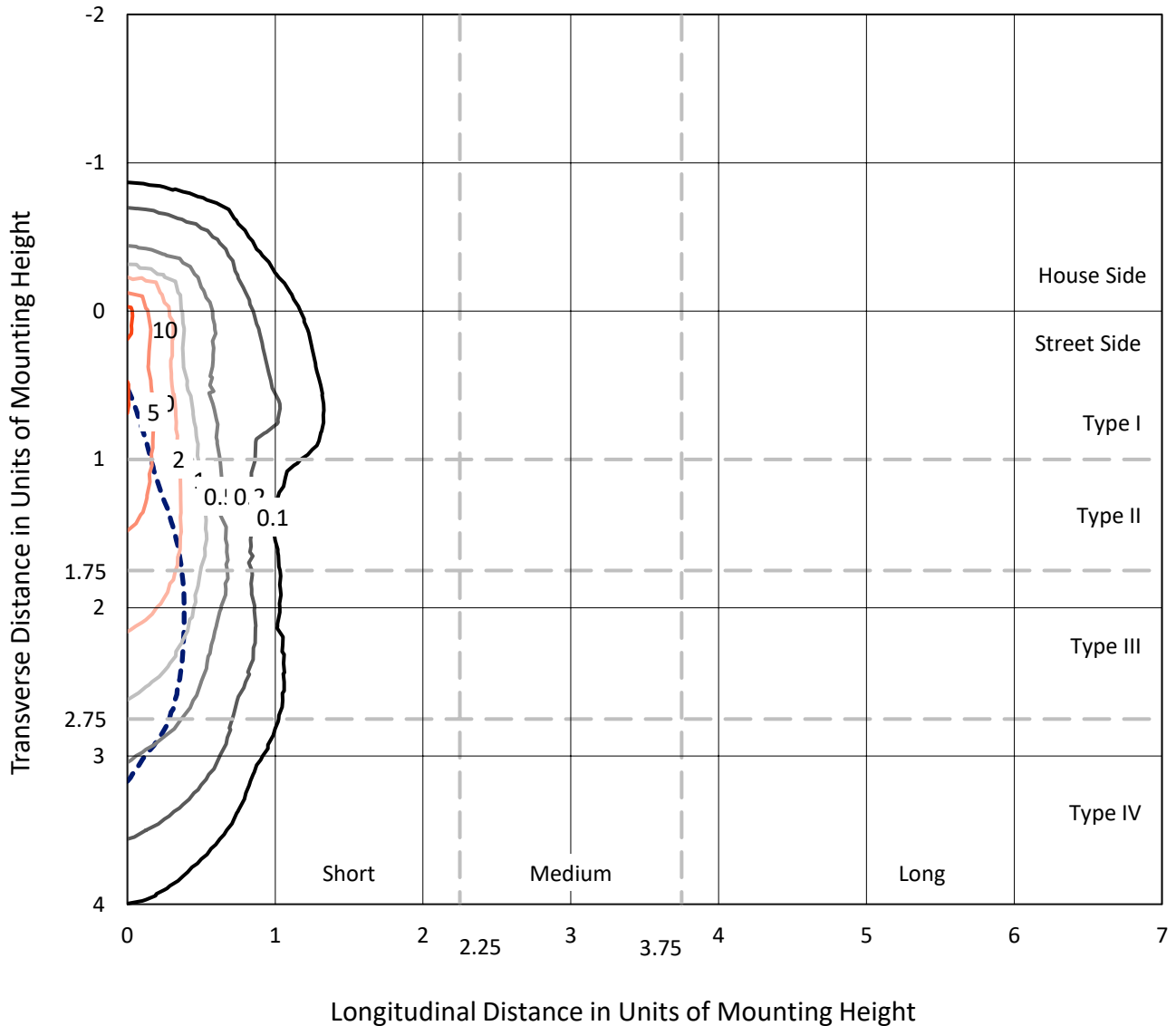
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

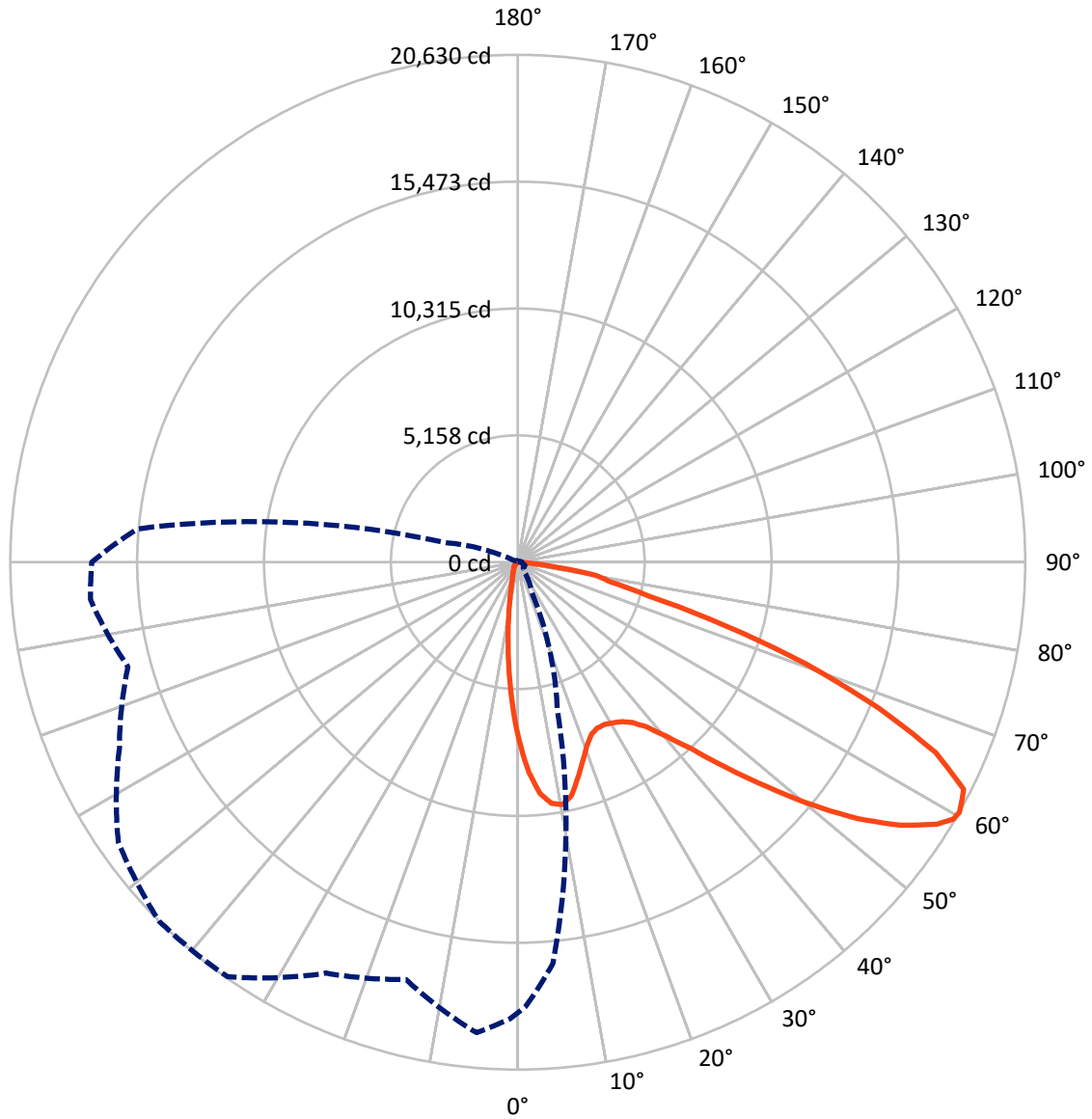
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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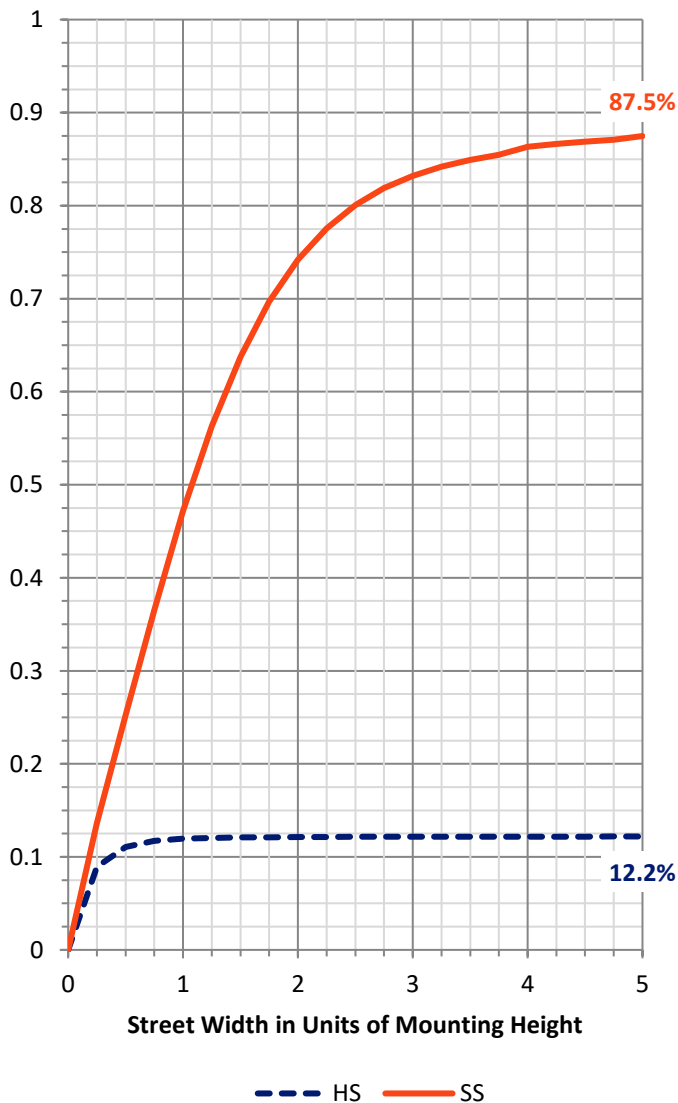
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2710.6	0.0	2710.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	19266.4	0.0	19266.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	21977.0	0.0	21977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.3	2.5
10°-20°	1072.9	4.9
20°-30°	1573.2	7.2
30°-40°	2339.7	10.6
40°-50°	3404.9	15.5
50°-60°	4910.2	22.3
60°-70°	5400.7	24.6
70°-80°	2419.1	11.0
80°-90°	316.1	1.4
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°	21977.0	100.0
0°-180°	21977.0	100.0

Coefficient of Utilization



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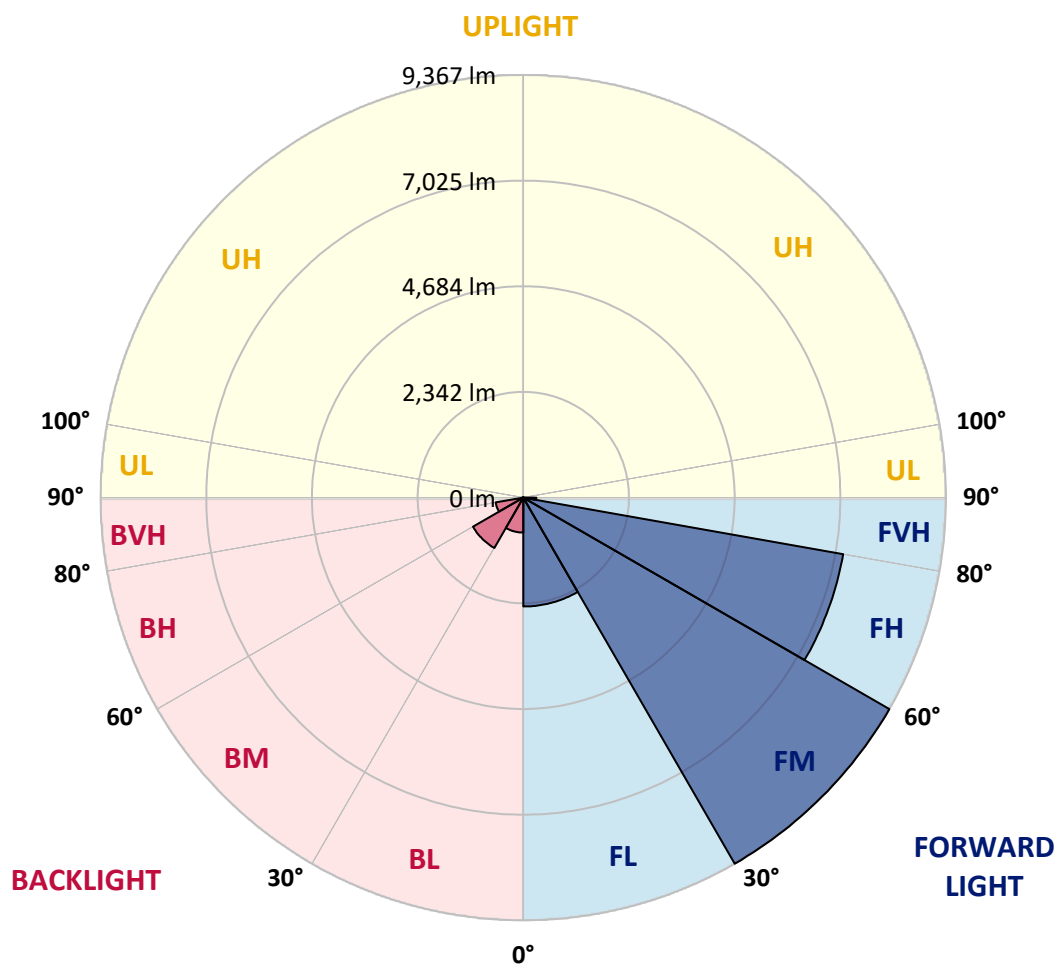
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2411.9	11.0			
FM	(30°-60°)	9367.3	42.6			
FH	(60°-80°)	7198.1	32.8			G3/7500
FVH	(80°-90°)	289.1	1.3			G3/500
BL	(0°-30°)	774.5	3.5	B2/1000		
BM	(30°-60°)	1287.5	5.9	B2/2500		
BH	(60°-80°)	621.6	2.8	B2/1000		G2/1000
BVH	(80°-90°)	27.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7
2.5°	7985.4	7950.3	7870.1	7626.2	7414.1	7136.7	6856.1	6635.6	6500.3	6251.3	6137.7
5°	7736.5	7753.2	7521.0	7019.8	6461.8	6080.9	5665.0	5334.2	4970.0	4739.5	4497.2
7.5°	7086.6	7053.2	6801.0	6102.7	5424.4	4873.1	4346.9	3919.2	3650.2	3434.7	3254.3
10°	6530.3	6505.3	6182.8	5284.1	4555.7	4143.1	3787.2	3413.0	3124.0	2808.3	2556.0
12.5°	6181.2	6124.4	5753.5	4814.6	4221.6	3837.3	3449.8	3060.5	2661.2	2342.2	2036.4
15°	6064.2	5982.4	5569.7	4652.6	4007.7	3519.9	3033.8	2586.1	2126.7	1774.2	1543.6
17.5°	6276.4	6141.1	5701.7	4624.2	3752.1	3105.6	2507.6	1924.5	1446.7	1177.8	1035.8
20°	6762.5	6607.2	6035.8	4595.8	3468.1	2641.2	1906.1	1359.9	1000.7	853.7	775.2
22.5°	7484.2	7270.4	6530.3	4640.9	3205.9	2188.5	1376.6	960.6	795.2	703.3	648.2
25°	8351.3	8172.5	7156.8	4801.3	2998.7	1832.6	1064.2	785.2	669.9	613.1	571.3
27.5°	9301.8	9016.2	7967.0	4993.4	2809.9	1557.0	933.9	701.6	596.4	544.6	522.9
30°	9978.4	9756.2	8645.3	5127.0	2574.4	1349.8	853.7	691.6	598.1	536.3	496.2
32.5°	10646.7	10362.7	9213.3	5188.8	2402.3	1206.2	738.4	603.1	524.6	492.8	452.7
35°	11361.7	11064.3	9779.6	5155.4	2273.7	1110.9	669.9	537.9	449.4	395.9	355.8
37.5°	12085.0	11771.0	10342.6	5035.1	2193.5	1072.5	616.4	511.2	424.3	369.2	325.8
40°	12943.7	12524.4	10870.5	4936.6	2110.0	1052.5	581.4	494.5	406.0	347.5	304.0
42.5°	13645.4	13246.1	11370.0	4884.8	2053.2	1005.7	581.4	481.1	394.3	329.1	284.0
45°	14310.2	13895.9	11909.6	4926.6	2029.8	947.2	588.0	479.5	385.9	315.7	270.6
47.5°	14866.6	14507.4	12464.3	5083.6	1999.7	883.7	553.0	502.8	380.9	304.0	257.3
50°	15523.1	15175.6	13197.6	5401.0	1946.2	820.3	509.5	541.3	379.2	294.0	245.6
52.5°	16448.6	16072.7	14210.0	5761.9	1861.0	723.4	469.4	536.3	372.5	277.3	233.9
55°	17579.6	17275.5	15382.8	6194.5	1744.1	614.8	406.0	476.1	352.5	248.9	213.8
57.5°	18304.6	18045.7	16261.5	6381.6	1565.3	502.8	357.5	399.3	322.4	222.2	190.4
59°	18389.8	18155.9	16445.3	6319.8	1448.4	459.4	334.1	342.5	314.1	207.2	177.1
60°	18318.0	18075.8	16371.8	6199.5	1339.8	429.3	314.1	304.0	315.7	198.8	167.1
62.5°	17856.9	17442.6	15658.4	5589.8	1171.1	394.3	279.0	248.9	279.0	178.8	148.7
65°	16966.5	16345.0	14246.8	4731.1	1104.3	374.2	237.2	208.8	212.2	157.0	128.6
67.5°	15411.2	14627.7	12367.4	3844.0	1075.9	375.9	200.5	187.1	163.7	133.6	113.6
70°	12952.1	12170.2	9923.3	3162.4	1062.5	375.9	170.4	160.4	137.0	111.9	98.6
72.5°	9178.2	8336.2	6694.0	2484.2	957.2	374.2	145.3	145.3	111.9	93.6	80.2
75°	5185.5	5192.2	4208.2	1757.5	795.2	309.1	116.9	115.3	81.9	71.8	60.1
77.5°	3022.1	2968.6	2836.7	755.1	369.2	140.3	81.9	70.2	56.8	51.8	43.4
80°	1553.6	1278.0	1244.6	274.0	132.0	88.5	56.8	40.1	36.8	33.4	30.1
82.5°	459.4	461.1	411.0	110.3	73.5	58.5	28.4	21.7	20.0	18.4	18.4
85°	31.7	20.0	23.4	33.4	45.1	23.4	1.7	5.0	5.0	6.7	8.4
87.5°	3.3	1.7	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°	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7
2.5°	6012.4	6085.9	5949.0	5952.3	5838.7	5875.5	5741.8	5785.2	5706.7	5766.9	5943.9
5°	4523.9	4540.7	4430.4	4395.3	4412.0	4480.5	4507.2	4385.3	4437.1	4335.2	4328.5
7.5°	3187.5	3207.5	3144.0	3135.7	3256.0	3227.6	3279.4	3154.1	3035.5	3087.2	2992.0
10°	2475.8	2392.3	2262.0	2225.2	2201.8	2216.9	2216.9	2103.3	2086.6	2041.5	2110.0
12.5°	1954.6	1852.7	1729.1	1562.0	1520.2	1516.9	1455.1	1354.8	1323.1	1284.7	1341.5
15°	1420.0	1378.2	1274.7	1181.1	1085.9	1067.5	967.3	885.4	776.8	761.8	756.8
17.5°	999.0	937.2	935.5	882.1	826.9	790.2	696.6	603.1	561.3	556.3	556.3
20°	748.4	726.7	691.6	684.9	668.2	626.5	542.9	492.8	472.8	474.4	481.1
22.5°	629.8	614.8	583.0	568.0	561.3	524.6	462.8	429.3	419.3	419.3	421.0
25°	563.0	549.6	514.5	491.2	482.8	456.1	407.6	382.6	374.2	374.2	374.2
27.5°	512.9	496.2	459.4	439.4	424.3	394.3	364.2	339.1	330.8	330.8	332.4
30°	477.8	459.4	426.0	399.3	375.9	349.2	324.1	302.4	292.4	290.7	292.4
32.5°	431.0	414.3	380.9	364.2	337.5	305.7	285.7	265.6	255.6	257.3	255.6
35°	335.8	330.8	307.4	312.4	297.4	270.6	252.3	230.5	218.8	217.2	220.5
37.5°	305.7	285.7	258.9	260.6	255.6	245.6	215.5	192.1	183.8	183.8	185.4
40°	282.3	262.3	232.2	217.2	218.8	218.8	187.1	162.0	153.7	152.0	155.4
42.5°	262.3	242.2	208.8	183.8	177.1	185.4	158.7	133.6	125.3	122.0	125.3
45°	248.9	227.2	188.8	160.4	140.3	150.4	130.3	110.3	100.2	100.2	98.6
47.5°	235.6	215.5	173.7	138.7	116.9	111.9	106.9	88.5	78.5	76.8	78.5
50°	223.9	203.8	157.0	120.3	98.6	86.9	86.9	70.2	63.5	60.1	61.8
52.5°	212.2	190.4	142.0	106.9	85.2	70.2	61.8	56.8	51.8	50.1	51.8
55°	195.5	173.7	127.0	91.9	73.5	58.5	48.4	46.8	43.4	40.1	43.4
57.5°	175.4	155.4	111.9	78.5	58.5	45.1	40.1	38.4	35.1	33.4	33.4
59°	163.7	145.3	103.6	68.5	51.8	40.1	36.8	35.1	31.7	28.4	30.1
60°	157.0	142.0	98.6	63.5	46.8	36.8	33.4	31.7	28.4	26.7	28.4
62.5°	138.7	127.0	86.9	51.8	36.8	26.7	23.4	25.1	23.4	21.7	23.4
65°	122.0	111.9	73.5	40.1	28.4	18.4	16.7	21.7	20.0	18.4	20.0
67.5°	108.6	96.9	61.8	30.1	20.0	10.0	11.7	18.4	18.4	16.7	18.4
70°	93.6	83.5	50.1	21.7	10.0	5.0	8.4	13.4	16.7	15.0	16.7
72.5°	76.8	65.2	38.4	15.0	5.0	0.0	5.0	11.7	16.7	15.0	16.7
75°	60.1	48.4	28.4	8.4	0.0	0.0	1.7	10.0	16.7	15.0	16.7
77.5°	43.4	35.1	16.7	1.7	0.0	0.0	1.7	10.0	16.7	15.0	16.7
80°	28.4	25.1	6.7	0.0	0.0	0.0	1.7	10.0	16.7	16.7	18.4
82.5°	18.4	13.4	0.0	0.0	0.0	0.0	3.3	13.4	18.4	20.0	20.0
85°	8.4	0.0	0.0	0.0	0.0	0.0	6.7	16.7	21.7	21.7	21.7
87.5°	0.0	0.0	0.0	0.0	0.0	3.3	11.7	20.0	25.1	25.1	25.1
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°	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7
2.5°	5974.0	6079.3	6227.9	6456.8	6642.3	6934.6	7158.5	7464.2	7773.2	7866.8	8012.1
5°	4397.0	4532.3	4869.8	5177.1	5370.9	5989.1	6380.0	6996.4	7549.4	7815.0	8104.0
7.5°	3053.8	3214.2	3471.5	3900.8	4308.4	4811.3	5442.8	6147.8	6958.0	7337.2	7744.8
10°	2143.4	2343.8	2706.4	3058.8	3571.7	4049.5	4672.6	5451.1	6344.9	6792.6	7303.8
12.5°	1353.2	1531.9	2011.4	2407.3	3047.2	3601.8	4176.5	4881.5	5917.2	6376.6	6912.9
15°	773.5	923.8	1147.7	1655.6	2365.6	3098.9	3815.6	4634.2	5698.4	6264.7	6844.4
17.5°	576.4	616.4	716.7	1004.0	1650.5	2507.6	3483.2	4559.0	5847.1	6511.9	7173.5
20°	484.5	511.2	558.0	671.6	1052.5	1931.2	3159.1	4572.4	6328.2	7163.5	7791.6
22.5°	434.4	451.1	489.5	563.0	718.4	1406.6	2779.9	4650.9	6911.2	7963.7	8688.7
25°	380.9	402.6	436.0	499.5	598.1	975.6	2405.6	4826.3	7728.1	8979.4	9661.0
27.5°	339.1	359.2	392.6	451.1	524.6	745.1	1969.6	4976.7	8590.2	10001.8	10559.8
30°	297.4	317.4	350.8	397.6	464.4	603.1	1500.2	5065.2	9427.1	10768.6	11197.9
32.5°	262.3	279.0	310.7	352.5	407.6	511.2	1182.8	4973.3	10067.0	11465.2	11752.6
35°	227.2	247.2	274.0	312.4	360.8	436.0	984.0	4655.9	10616.6	12181.9	12285.5
37.5°	190.4	213.8	242.2	277.3	315.7	400.9	790.2	4305.1	11204.6	13075.7	12905.3
40°	160.4	182.1	208.8	247.2	282.3	367.5	608.1	3930.9	11839.5	13914.3	13581.9
42.5°	130.3	153.7	185.4	220.5	279.0	320.8	471.1	3543.3	12409.1	14644.4	14193.3
45°	103.6	123.6	157.0	202.1	277.3	275.6	364.2	3160.8	12838.5	15165.6	14649.4
47.5°	81.9	98.6	132.0	197.1	255.6	233.9	292.4	2923.5	13289.5	15635.0	14998.5
50°	65.2	81.9	113.6	205.5	223.9	200.5	245.6	2962.0	13725.5	15873.9	15142.2
52.5°	55.1	71.8	98.6	162.0	172.1	175.4	215.5	3139.0	14288.5	16129.5	15427.9
55°	48.4	63.5	83.5	113.6	133.6	157.0	197.1	3267.7	15042.0	16677.5	16057.7
57.5°	38.4	55.1	75.2	96.9	110.3	137.0	182.1	3277.7	15723.6	17380.8	16894.6
59°	35.1	50.1	70.2	91.9	98.6	123.6	172.1	3192.5	15748.6	17486.0	17278.9
60°	31.7	48.4	66.8	85.2	93.6	116.9	163.7	3093.9	15521.4	17319.0	17437.6
62.5°	26.7	41.8	58.5	68.5	80.2	96.9	142.0	2736.4	14420.5	16562.2	17143.6
65°	23.4	36.8	50.1	56.8	66.8	83.5	125.3	2190.1	13204.3	15536.5	16301.6
67.5°	21.7	33.4	43.4	48.4	58.5	76.8	111.9	1547.0	11629.0	14235.1	15037.0
70°	20.0	31.7	38.4	45.1	51.8	65.2	95.2	902.1	8957.7	11953.1	12800.0
72.5°	20.0	30.1	33.4	38.4	45.1	58.5	88.5	487.8	6124.4	9118.1	10212.3
75°	20.0	28.4	30.1	33.4	40.1	53.5	78.5	255.6	3959.3	6334.9	7818.3
77.5°	20.0	26.7	30.1	31.7	38.4	46.8	68.5	160.4	2637.9	4437.1	5284.1
80°	21.7	26.7	28.4	31.7	36.8	43.4	56.8	106.9	1550.3	2669.6	3215.9
82.5°	23.4	26.7	30.1	33.4	38.4	41.8	50.1	66.8	715.0	1765.8	1998.0
85°	25.1	28.4	31.7	35.1	40.1	41.8	46.8	48.4	116.9	796.9	1077.5
87.5°	26.7	30.1	33.4	36.8	43.4	43.4	43.4	43.4	40.1	85.2	217.2
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: P453742

CATALOG NUMBER: GALN-SA4D-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7	7263.7
2.5°	8195.9	8384.7	8516.7	8550.1	8454.8	8411.4	8291.1	8104.0	7990.4	7985.4
5°	8636.9	9079.6	9387.0	9438.8	9255.1	8944.3	8575.1	8099.0	7820.0	7736.5
7.5°	8561.8	9336.9	9831.4	9903.2	9594.2	9001.1	8286.1	7519.3	7215.3	7086.6
10°	8252.7	9198.3	9904.9	10018.5	9605.9	8770.6	7861.8	7006.4	6628.9	6530.3
12.5°	7988.7	8944.3	9572.5	9729.5	9417.1	8583.5	7607.9	6677.3	6273.1	6181.2
15°	7873.5	8643.6	9027.9	9108.0	9056.3	8466.5	7581.1	6627.2	6164.5	6064.2
17.5°	7988.7	8388.0	8436.5	8518.3	8633.6	8454.8	7838.4	6899.5	6400.0	6276.4
20°	8291.1	8165.8	7965.4	8000.4	8264.4	8503.3	8296.1	7502.6	6894.5	6762.5
22.5°	8805.7	8110.7	7656.3	7626.2	7960.3	8665.3	8967.7	8319.5	7614.5	7484.2
25°	9437.1	8249.4	7542.7	7477.5	7841.7	8902.6	9697.8	9320.2	8550.1	8351.3
27.5°	10125.4	8536.7	7542.7	7479.2	7831.7	9113.1	10322.6	10205.6	9519.0	9301.8
30°	10503.0	8773.9	7651.3	7579.5	7955.3	9235.0	10656.7	10992.5	10247.4	9978.4
32.5°	10840.4	9103.0	7863.5	7728.1	8214.3	9415.4	10955.7	11660.7	10827.1	10646.7
35°	11151.2	9455.5	8155.8	7998.8	8555.1	9662.7	11286.5	12362.3	11634.0	11361.7
37.5°	11493.6	9864.8	8611.9	8478.2	9124.7	10143.8	11679.1	13284.5	12427.5	12085.0
40°	11866.2	10339.3	9362.0	9305.2	10030.2	10688.4	12175.2	14268.5	13333.0	12943.7
42.5°	12245.4	10885.5	10280.8	10374.3	11055.9	11451.9	12684.8	15025.3	14074.7	13645.4
45°	12589.5	11583.9	11475.3	11938.0	12252.1	12197.0	13062.3	15558.2	14721.2	14310.2
47.5°	13023.9	12601.2	12920.3	13633.7	13642.0	13007.2	13348.0	15994.2	15277.5	14866.6
50°	13510.0	13802.4	14786.4	15513.1	15317.6	13804.1	13682.1	16510.4	15852.2	15523.1
52.5°	14073.0	15147.2	16510.4	17317.3	16861.2	14672.8	14238.4	17068.4	16764.3	16448.6
55°	14727.9	16064.4	18229.4	18872.6	18413.2	15752.0	15083.7	17825.2	17795.1	17579.6
57.5°	15468.0	17033.3	19225.1	20095.5	19686.2	17018.3	16264.8	18538.5	18424.9	18304.6
59°	16052.7	17531.1	19664.5	20566.6	20319.4	17905.4	17058.4	18982.9	18570.2	18389.8
60°	16406.8	17868.6	19826.5	20630.1	20573.3	18433.3	17561.2	19200.1	18568.6	18318.0
62.5°	17457.6	18458.3	19764.7	20347.8	20569.9	19445.6	19036.3	19439.0	18224.4	17856.9
65°	17831.8	18262.9	18740.6	18668.8	18859.3	19393.8	19978.6	19176.7	17489.4	16966.5
67.5°	17103.5	16119.5	16288.2	15808.8	15715.2	17242.1	19596.0	17893.7	16051.0	15411.2
70°	14417.2	12349.0	12263.8	12484.3	11879.5	13959.4	17596.3	15422.9	13677.1	12952.1
72.5°	11348.3	8727.1	8008.8	8820.7	8802.3	10650.0	14617.6	10944.0	9240.0	9178.2
75°	8924.3	6075.9	5332.5	5464.5	5718.4	7709.8	11642.3	6949.6	5690.0	5185.5
77.5°	5990.7	4305.1	4016.1	3854.0	4128.0	4949.9	7365.6	3768.8	3190.8	3022.1
80°	3453.1	3127.3	3551.7	3224.2	3371.2	3119.0	3663.6	1729.1	1435.0	1553.6
82.5°	2246.9	1780.8	1897.8	1410.0	1927.9	1944.6	1176.1	511.2	432.7	459.4
85°	1405.0	835.3	469.4	334.1	664.9	1222.9	367.5	31.7	36.8	31.7
87.5°	364.2	138.7	58.5	86.9	106.9	95.2	85.2	5.0	1.7	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)