

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: P453740

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453740
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-SA4D-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 21977 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

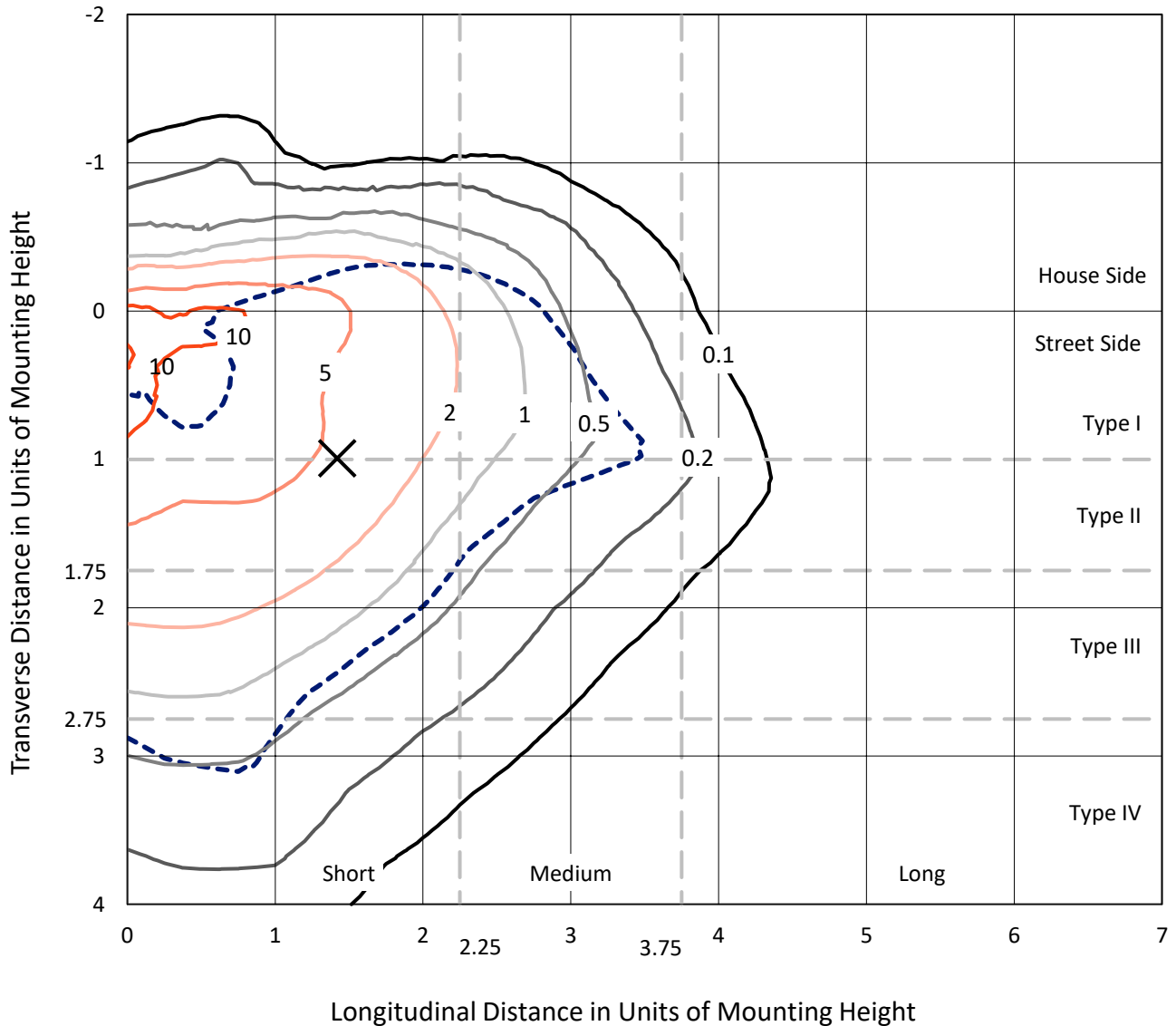
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

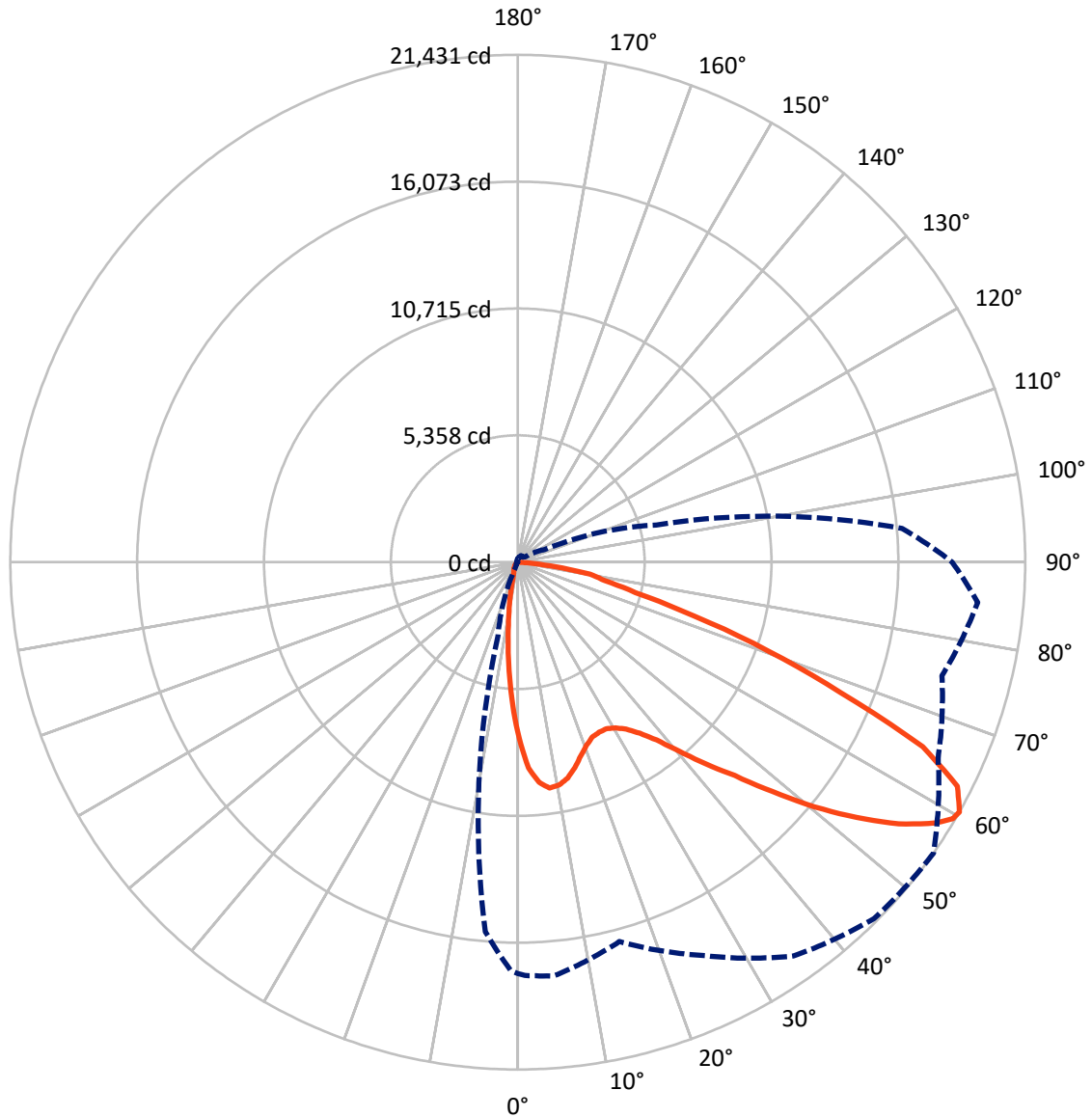
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3261.6	0.0	3261.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	18715.4	0.0	18715.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	21977.0	0.0	21977.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.0	2.5
10°-20°	1085.1	4.9
20°-30°	1606.2	7.3
30°-40°	2394.2	10.9
40°-50°	3506.3	16.0
50°-60°	5062.0	23.0
60°-70°	5325.0	24.2
70°-80°	2190.5	10.0
80°-90°	256.6	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°	21977.0	100.0
0°-180°	21977.0	100.0



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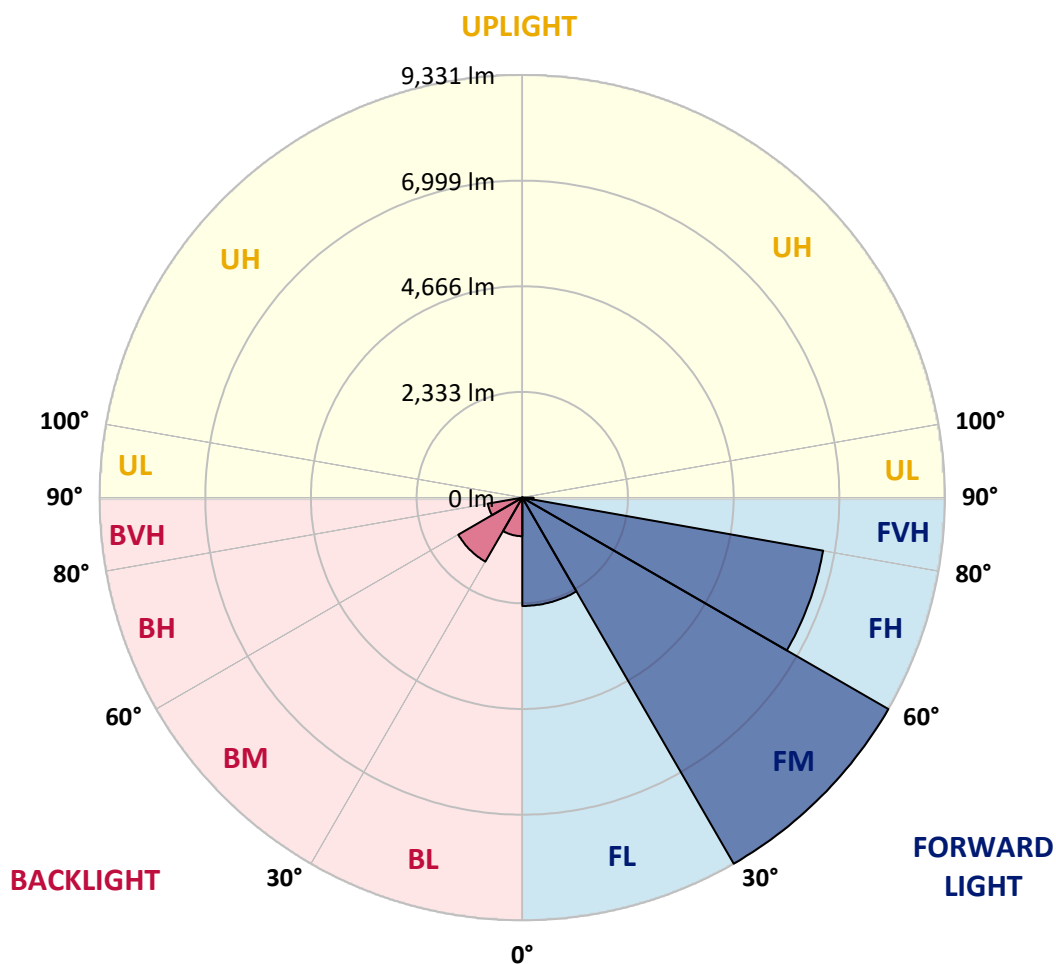
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2391.4	10.9			
FM	(30°-60°)	9331.5	42.5			
FH	(60°-80°)	6743.5	30.7			G3/7500
FVH	(80°-90°)	249.0	1.1			G3/500
BL	(0°-30°)	851.0	3.9	B2/1000		
BM	(30°-60°)	1631.1	7.4	B2/2500		
BH	(60°-80°)	772.0	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4
2.5°	8129.8	8116.3	8236.4	8432.6	8630.5	8733.7	8713.4	8705.0	8540.9	8420.8	8168.7
5°	8112.9	8182.3	8397.1	8928.3	9330.9	9525.4	9582.9	9341.0	9021.3	8557.8	7986.0
7.5°	7627.4	7713.7	8063.9	8894.4	9610.0	10032.9	10017.7	9630.3	8970.6	8253.3	7438.0
10°	7025.2	7126.7	7537.8	8546.0	9474.7	10032.9	10063.3	9572.8	8752.3	7832.1	6974.5
12.5°	6600.6	6720.7	7175.8	8221.2	9126.2	9676.0	9711.5	9356.2	8588.3	7669.7	6722.4
15°	6456.8	6570.2	7032.0	8057.1	8755.7	9051.8	9043.3	9006.1	8524.0	7708.6	6736.0
17.5°	6703.8	6796.9	7317.9	8131.5	8408.9	8378.5	8422.5	8601.8	8537.5	8035.1	7162.2
20°	7341.5	7436.3	7996.2	8359.9	8143.4	7950.5	7970.8	8270.2	8662.7	8649.2	7828.7
22.5°	8219.5	8380.2	8887.7	8803.1	8107.8	7684.9	7642.7	8031.7	8875.8	9356.2	8728.7
25°	9330.9	9493.3	9889.1	9510.2	8282.1	7622.4	7583.4	7959.0	9134.6	10046.4	9741.9
27.5°	10264.6	10388.1	10782.3	10198.7	8539.2	7649.4	7585.1	7969.1	9344.4	10633.4	10596.2
30°	11012.3	11103.7	11335.4	10520.1	8760.8	7767.8	7693.4	8118.0	9437.4	10919.3	11288.1
32.5°	11614.5	11768.5	11841.2	10863.5	9078.8	7991.1	7864.3	8403.9	9664.1	11272.8	12013.7
35°	12303.0	12480.6	12387.6	11191.6	9498.3	8339.6	8184.0	8867.4	10007.5	11599.3	12856.2
37.5°	13175.9	13380.6	13016.9	11536.7	9941.5	8864.0	8791.2	9518.6	10528.5	12066.2	13759.5
40°	14079.2	14197.6	13627.5	11956.2	10486.2	9626.9	9696.3	10486.2	11210.2	12626.1	14720.3
42.5°	14784.6	14896.2	14255.1	12308.1	11042.8	10531.9	10821.2	11653.4	11991.8	13199.6	15437.5
45°	15324.2	15418.9	14689.9	12692.1	11793.8	11842.9	12389.3	12856.2	12775.0	13549.7	15990.7
47.5°	15743.7	15824.9	15024.8	13104.8	12918.8	13446.5	14282.2	14480.1	13586.9	13928.6	16491.4
50°	15916.3	15940.0	15129.7	13630.9	14195.9	15490.0	16361.2	16241.1	14517.3	14349.8	17024.3
52.5°	16141.3	16136.2	15429.1	14131.6	15396.9	17316.9	18186.4	17914.1	15569.5	14980.8	17623.1
55°	16731.6	16738.4	16070.2	14842.1	16420.4	18792.0	19722.4	19524.5	16679.2	16046.5	18321.7
57.5°	17448.9	17474.2	16982.0	15672.7	17398.1	19861.1	20869.3	20793.2	18179.6	17232.3	18981.5
59°	17541.9	17592.6	17413.3	16258.0	17978.3	20189.3	21261.7	21336.2	18983.1	18013.9	19338.4
60°	17372.7	17457.3	17538.5	16589.5	18318.3	20307.7	21285.4	21430.9	19587.0	18545.0	19500.8
62.5°	16635.2	16768.8	17176.5	17609.6	18742.9	19938.9	20529.3	20833.8	20334.7	19940.6	19516.0
65°	15669.3	15738.7	16327.3	17790.6	17919.1	18216.8	18399.5	18790.3	19436.5	20478.5	18817.4
67.5°	14086.0	14290.6	15011.3	16740.1	15488.3	15136.4	15090.8	14701.7	16379.8	19196.3	17095.3
70°	11636.5	11727.9	12616.0	13724.0	11689.0	11147.6	11364.2	11218.7	12697.2	16525.2	13759.5
72.5°	8799.7	9006.1	9873.9	10939.6	7953.9	7251.9	7849.0	7794.9	9537.2	13280.8	9452.7
75°	6260.6	6394.3	7500.6	8561.2	5570.4	4719.6	4934.4	5135.7	6658.1	10486.2	5585.7
77.5°	4301.7	4416.8	5247.3	5661.8	4063.2	3892.4	3560.8	3755.4	4362.6	6221.7	3039.8
80°	2594.9	2589.8	3136.2	3237.7	2830.0	3286.8	2757.3	3095.6	2637.2	2662.6	1177.4
82.5°	1684.8	1667.9	1918.3	2090.8	1574.9	1656.1	1111.4	1601.9	1718.7	742.6	372.2
85°	754.5	786.6	921.9	1216.3	690.2	367.1	226.7	492.3	732.5	373.8	0.0
87.5°	77.8	60.9	162.4	296.0	94.7	10.1	33.8	16.9	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°	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4
2.5°	8052.0	7953.9	7661.3	7387.2	7152.1	6864.5	6678.4	6385.8	6208.2	6154.0	6162.5
5°	7728.9	7446.4	6889.9	6445.0	5949.4	5666.9	5237.2	4824.4	4601.2	4518.3	4481.1
7.5°	7052.3	6749.5	6077.9	5379.3	4848.1	4352.5	4032.8	3669.1	3420.4	3215.7	3180.2
10°	6549.9	6152.4	5320.1	4569.0	4149.5	3777.3	3457.6	3093.9	2801.3	2567.8	2503.6
12.5°	6248.8	5803.9	4875.2	4245.9	3848.4	3466.1	3050.0	2628.7	2329.3	2077.3	1960.6
15°	6194.6	5678.7	4750.0	4014.2	3523.6	3061.8	2508.6	2053.6	1745.7	1507.2	1434.5
17.5°	6521.1	5903.7	4731.4	3772.3	3099.0	2444.4	1869.2	1492.0	1145.2	1011.6	959.1
20°	7103.0	6301.2	4729.7	3491.5	2662.6	1882.8	1312.7	972.7	832.3	768.0	737.5
22.5°	7896.4	6842.5	4819.4	3249.6	2209.2	1388.8	937.1	774.8	693.6	641.1	629.3
25°	8865.7	7644.3	5039.3	3085.5	1862.5	1089.4	773.1	663.1	595.4	571.8	561.6
27.5°	9726.7	8412.3	5281.2	2916.3	1613.8	964.2	717.2	607.3	553.2	534.5	519.3
30°	10469.3	9109.3	5397.9	2693.0	1414.2	883.0	727.4	649.6	578.5	522.7	497.3
32.5°	11088.4	9643.8	5474.0	2490.0	1245.0	722.3	575.1	502.4	470.3	450.0	433.0
35°	11863.2	10222.3	5428.3	2375.0	1158.7	658.0	524.4	433.0	378.9	338.3	321.4
37.5°	12675.2	10800.9	5348.8	2280.3	1119.8	610.7	499.0	411.1	351.9	309.6	287.6
40°	13515.9	11337.1	5255.8	2192.3	1084.3	580.2	483.8	392.5	333.2	287.6	263.9
42.5°	14285.6	11859.8	5218.6	2134.8	1026.8	585.3	472.0	384.0	314.6	267.3	247.0
45°	14908.1	12355.5	5269.3	2104.4	964.2	576.8	475.3	373.8	299.4	253.7	233.4
47.5°	15572.9	13055.8	5433.4	2073.9	903.3	536.2	500.7	372.2	292.6	245.3	223.3
50°	16345.9	13952.3	5809.0	1999.5	828.9	492.3	532.9	370.5	284.2	235.1	213.1
52.5°	17376.1	14970.7	6196.3	1869.2	720.6	450.0	509.2	365.4	267.3	223.3	201.3
55°	18301.4	16043.1	6524.5	1715.3	583.6	389.1	458.4	343.4	238.5	203.0	182.7
57.5°	18683.7	16648.7	6514.4	1502.1	466.9	341.7	377.2	314.6	208.1	179.3	162.4
59°	18543.3	16572.6	6296.1	1344.8	426.3	316.3	312.9	311.3	194.5	162.4	148.9
60°	18345.4	16295.2	6061.0	1267.0	400.9	299.4	287.6	307.9	182.7	152.2	138.7
62.5°	17587.6	15144.9	5281.2	1135.1	367.1	253.7	230.1	260.5	162.4	131.9	120.1
65°	16489.7	13377.2	4470.9	1097.8	356.9	209.8	191.2	186.1	138.7	111.6	101.5
67.5°	14348.2	11320.2	3621.7	1072.5	360.3	175.9	167.5	140.4	115.0	93.0	86.3
70°	11487.7	8826.8	2965.4	1043.7	363.7	143.8	140.4	111.6	93.0	77.8	71.0
72.5°	6979.5	5232.1	2334.4	906.7	353.5	115.0	125.2	84.6	67.7	55.8	52.4
75°	4315.3	3581.1	1448.0	705.4	233.4	84.6	88.0	52.4	45.7	35.5	35.5
77.5°	2500.2	2261.7	517.6	253.7	103.2	50.7	38.9	27.1	25.4	15.2	15.2
80°	1037.0	830.6	179.3	86.3	55.8	23.7	8.5	1.7	0.0	0.0	0.0
82.5°	302.8	269.0	49.1	38.9	16.9	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°	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4
2.5°	6018.7	5962.9	5937.5	6023.8	5944.3	6045.8	5968.0	6001.8	6101.6	6145.6	6258.9
5°	4504.7	4447.2	4420.2	4550.4	4543.6	4607.9	4601.2	4660.4	4711.1	4597.8	4714.5
7.5°	3137.9	3099.0	3163.3	3264.8	3373.1	3337.5	3337.5	3258.0	3285.1	3268.2	3263.1
10°	2386.8	2253.2	2219.4	2216.0	2256.6	2265.1	2219.4	2109.4	2150.0	2161.9	2232.9
12.5°	1877.7	1774.5	1617.2	1546.1	1527.5	1542.7	1392.2	1295.8	1341.4	1314.4	1383.7
15°	1346.5	1261.9	1168.9	1089.4	1067.4	1037.0	872.9	757.8	744.3	749.4	761.2
17.5°	960.8	903.3	903.3	818.7	773.1	681.7	598.8	548.1	543.0	548.1	556.5
20°	708.8	678.3	674.9	653.0	602.2	541.3	483.8	473.6	470.3	478.7	482.1
22.5°	610.7	578.5	551.5	549.8	502.4	451.7	424.6	411.1	412.8	416.1	424.6
25°	546.4	512.6	483.8	466.9	433.0	397.5	372.2	365.4	365.4	370.5	372.2
27.5°	500.7	458.4	433.0	409.4	378.9	348.5	326.5	321.4	318.0	321.4	329.9
30°	468.6	426.3	394.1	358.6	334.9	306.2	287.6	280.8	279.1	280.8	287.6
32.5°	400.9	375.5	350.2	318.0	289.3	270.7	250.4	238.5	238.5	241.9	248.7
35°	302.8	289.3	287.6	279.1	255.4	235.1	211.5	199.6	199.6	206.4	209.8
37.5°	267.3	241.9	238.5	235.1	225.0	197.9	175.9	165.8	164.1	169.2	175.9
40°	243.6	214.8	199.6	196.2	197.9	167.5	143.8	133.6	133.6	135.3	142.1
42.5°	225.0	191.2	164.1	160.7	167.5	140.4	116.7	106.6	106.6	106.6	115.0
45°	209.8	170.9	138.7	121.8	131.9	115.0	94.7	84.6	81.2	84.6	88.0
47.5°	199.6	155.6	121.8	98.1	98.1	91.3	76.1	64.3	60.9	62.6	67.7
50°	191.2	142.1	103.2	79.5	71.0	72.7	57.5	49.1	45.7	45.7	50.7
52.5°	177.6	128.6	89.7	67.7	54.1	49.1	42.3	35.5	33.8	35.5	38.9
55°	160.7	116.7	77.8	55.8	42.3	33.8	30.4	25.4	23.7	25.4	30.4
57.5°	142.1	98.1	62.6	44.0	28.8	22.0	20.3	16.9	13.5	15.2	18.6
59°	130.3	88.0	54.1	35.5	22.0	15.2	15.2	11.8	8.5	10.1	15.2
60°	125.2	81.2	45.7	30.4	18.6	11.8	11.8	8.5	5.1	6.8	11.8
62.5°	106.6	67.7	35.5	18.6	8.5	1.7	5.1	1.7	0.0	1.7	5.1
65°	89.7	54.1	23.7	8.5	0.0	0.0	0.0	0.0	0.0	0.0	1.7
67.5°	74.4	40.6	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	59.2	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	40.6	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	25.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.1	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: P453740

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4
2.5°	6265.7	6507.6	6656.4	6937.3	7224.8	7446.4	7723.8	7972.5	8075.7	8129.8
5°	4832.9	5169.5	5455.4	5883.4	6280.9	6764.7	7255.3	7833.8	8055.4	8112.9
7.5°	3391.7	3735.1	4034.5	4530.1	5096.8	5744.7	6478.8	7213.0	7536.1	7627.4
10°	2449.4	2816.5	3181.9	3677.5	4207.0	4909.0	5673.6	6582.0	6954.2	7025.2
12.5°	1546.1	1940.3	2534.0	3146.4	3706.3	4271.3	5071.4	6059.3	6470.4	6600.6
15°	896.5	1190.9	1639.2	2437.6	3149.8	3897.4	4770.3	5863.1	6323.2	6456.8
17.5°	600.5	702.0	1009.9	1620.6	2561.1	3552.4	4694.2	6023.8	6533.0	6703.8
20°	505.8	551.5	659.7	987.9	1972.4	3244.5	4714.5	6460.2	7128.4	7341.5
22.5°	444.9	487.2	556.5	710.5	1377.0	2862.2	4810.9	7084.4	7947.1	8219.5
25°	392.5	434.7	495.6	588.7	925.3	2420.7	5022.4	7997.9	9031.5	9330.9
27.5°	348.5	387.4	439.8	519.3	712.2	1928.4	5210.1	8887.7	10021.0	10264.6
30°	307.9	340.0	390.8	451.7	592.1	1486.9	5304.9	9665.8	10741.7	11012.3
32.5°	267.3	297.7	346.8	395.8	487.2	1133.4	5238.9	10237.6	11442.0	11614.5
35°	228.4	260.5	301.1	346.8	421.2	915.2	4909.0	10880.4	12167.7	12303.0
37.5°	196.2	223.3	265.6	301.1	380.6	732.5	4509.8	11458.9	12981.3	13175.9
40°	165.8	192.8	235.1	267.3	350.2	576.8	4149.5	12101.7	13839.0	14079.2
42.5°	135.3	167.5	204.7	257.1	301.1	439.8	3713.1	12622.7	14483.5	14784.6
45°	108.3	143.8	184.4	255.4	262.2	334.9	3291.9	13028.7	15053.6	15324.2
47.5°	86.3	121.8	177.6	238.5	214.8	265.6	3051.6	13453.3	15527.2	15743.7
50°	69.4	101.5	186.1	209.8	179.3	225.0	3044.9	13926.9	15772.5	15916.3
52.5°	55.8	82.9	157.3	160.7	152.2	197.9	3227.6	14459.8	16022.8	16141.3
55°	47.4	69.4	103.2	118.4	137.0	179.3	3364.6	15280.2	16620.0	16731.6
57.5°	37.2	59.2	79.5	94.7	121.8	164.1	3383.2	15912.9	17376.1	17448.9
59°	32.1	50.7	71.0	84.6	111.6	153.9	3307.1	15951.8	17425.2	17541.9
60°	27.1	45.7	62.6	79.5	103.2	145.5	3224.2	15669.3	17242.5	17372.7
62.5°	20.3	35.5	45.7	64.3	84.6	125.2	2831.7	14683.1	16543.9	16635.2
65°	13.5	25.4	33.8	47.4	66.0	108.3	2307.3	13404.2	15464.6	15669.3
67.5°	8.5	18.6	27.1	35.5	54.1	91.3	1644.2	11494.4	13954.0	14086.0
70°	5.1	11.8	20.3	28.8	42.3	72.7	976.1	9085.6	11609.5	11636.5
72.5°	3.4	8.5	13.5	20.3	33.8	66.0	473.6	5922.3	8476.6	8799.7
75°	1.7	5.1	8.5	15.2	27.1	54.1	226.7	3956.7	6167.6	6260.6
77.5°	0.0	1.7	5.1	10.1	20.3	42.3	131.9	2598.3	4205.3	4301.7
80°	0.0	0.0	3.4	8.5	15.2	27.1	79.5	1532.6	2547.6	2594.9
82.5°	0.0	0.0	1.7	6.8	10.1	20.3	40.6	673.3	1667.9	1684.8
85°	0.0	0.0	1.7	6.8	8.5	13.5	15.2	91.3	740.9	754.5
87.5°	0.0	0.0	1.7	8.5	8.5	8.5	8.5	5.1	62.6	77.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)