

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: P529745

Luminaire Tested: **GALN-SA4D-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529745
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-SA4D-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 13444 lumens
Efficiency: N/A
Efficacy: 54.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

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



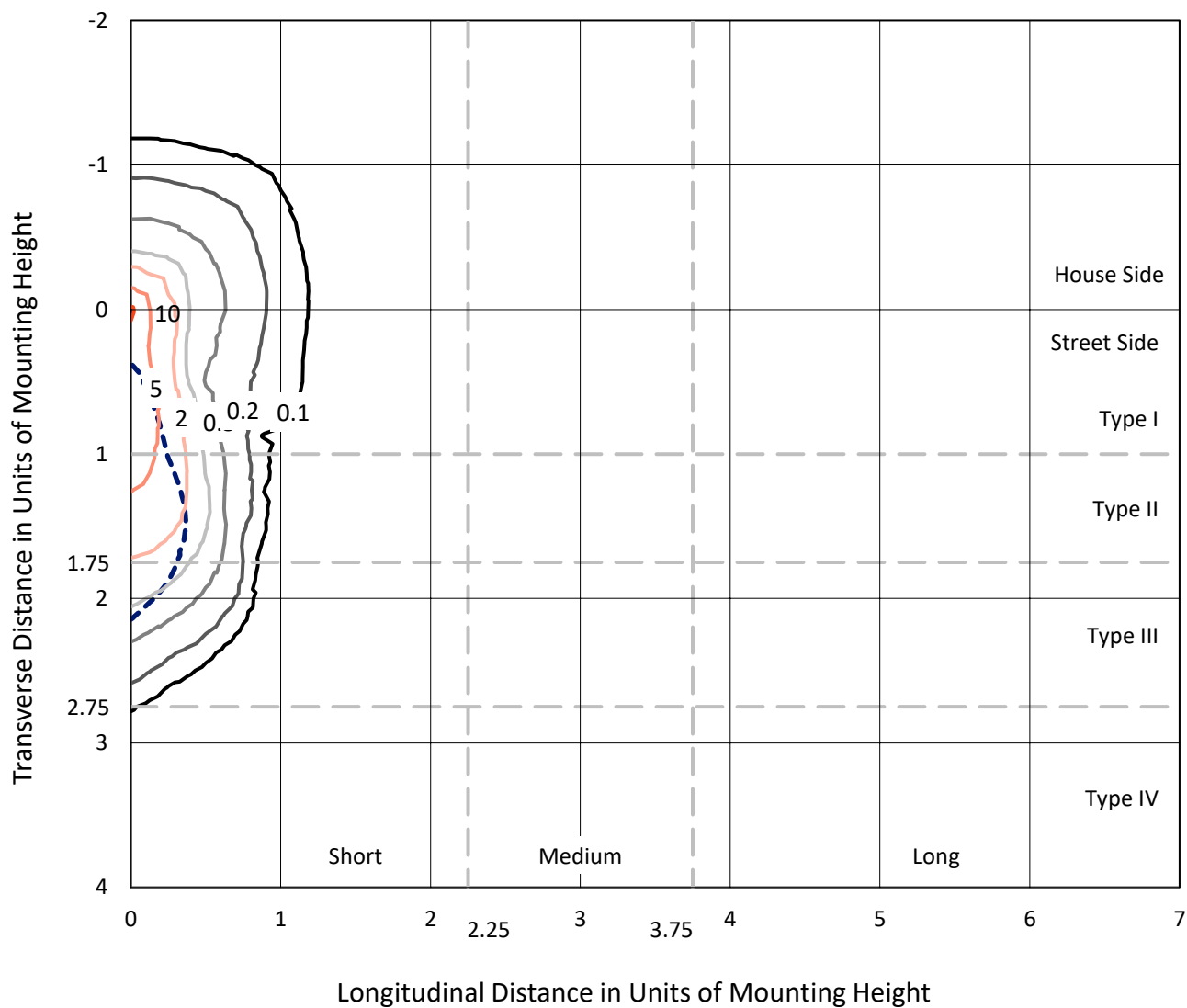
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

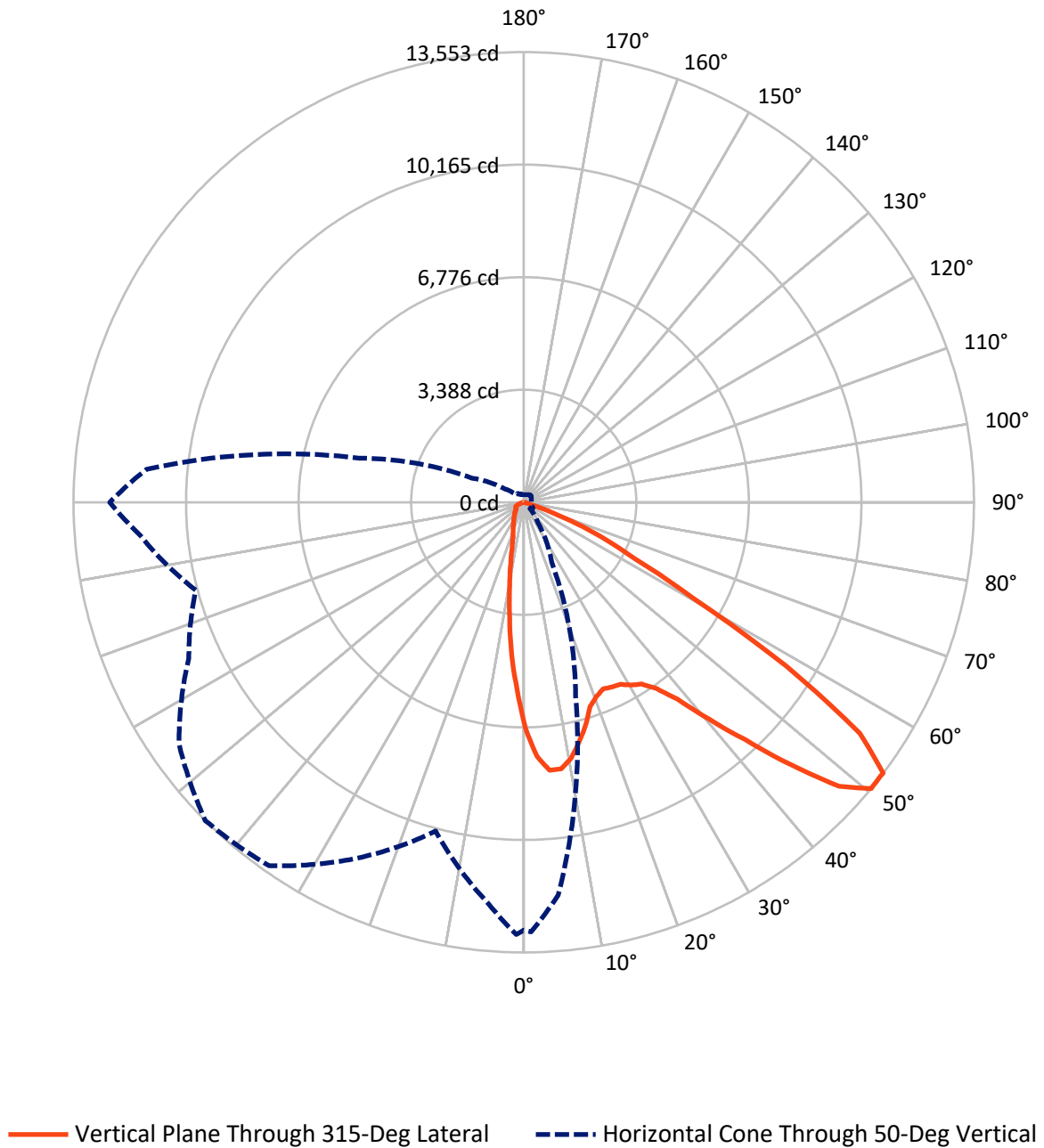


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2692.8	0.0	2692.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	10751.2	0.0	10751.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	13444.0	0.0	13444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.9	3.7
10°-20°	987.7	7.3
20°-30°	1483.8	11.0
30°-40°	2227.1	16.6
40°-50°	3130.0	23.3
50°-60°	3376.3	25.1
60°-70°	1567.6	11.7
70°-80°	147.5	1.1
80°-90°	27.2	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°	13444.0	100.0
0°-180°	13444.0	100.0

Coefficient of Utilization



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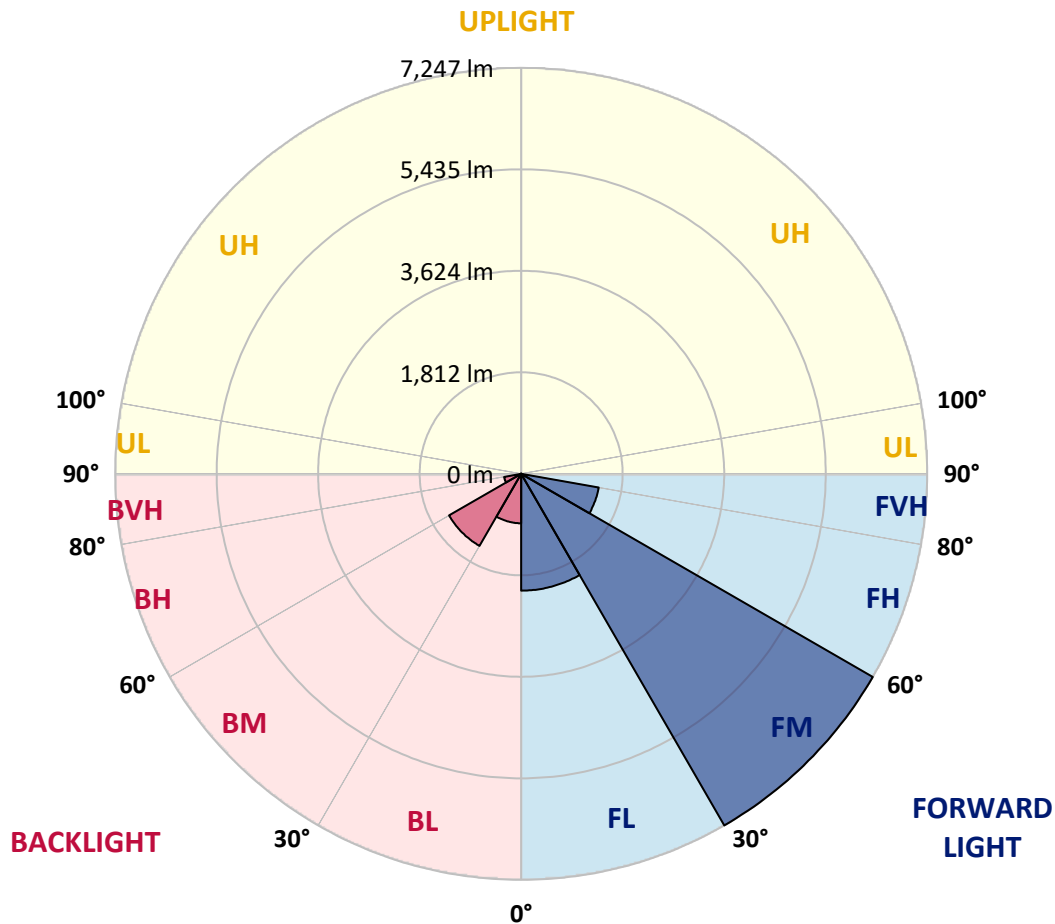
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2085.7	15.5			
FM	(30°-60°)	7247.3	53.9			
FH	(60°-80°)	1405.9	10.5			G1/1800
FVH	(80°-90°)	12.2	0.1			G1/100
BL	(0°-30°)	882.6	6.6	B2/1000		
BM	(30°-60°)	1486.0	11.1	B2/2500		
BH	(60°-80°)	309.2	2.3	B1/500		G1/500
BVH	(80°-90°)	14.9	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8
2.5°	7087.2	6977.8	6839.1	6724.4	6553.7	6209.6	6116.3	6004.3	5910.9	5785.5	5609.5
5°	6444.4	6409.7	6345.7	5913.6	5601.5	5185.4	4843.9	4699.9	4510.5	4355.8	4243.8
7.5°	5953.6	5814.9	5612.2	5177.4	4678.6	4233.1	3854.4	3633.0	3382.2	3296.9	3144.8
10°	5428.1	5460.1	5161.4	4550.5	3947.7	3587.6	3352.9	3139.5	2912.8	2763.4	2547.3
12.5°	5260.1	5156.0	4926.6	4171.8	3657.0	3320.9	3035.5	2771.4	2531.3	2291.3	2083.2
15°	5369.4	5209.4	4889.3	4091.7	3432.9	3014.1	2656.7	2299.3	2077.9	1771.1	1555.1
17.5°	5761.5	5633.5	5204.0	4177.1	3318.2	2720.7	2189.9	1821.8	1483.1	1205.7	1096.3
20°	6415.0	6233.6	5694.8	4286.5	3147.5	2366.0	1776.5	1323.0	1002.9	885.6	824.2
22.5°	7055.2	6956.5	6276.3	4497.2	2995.5	2051.2	1333.7	890.9	749.5	728.2	688.2
25°	8274.2	7978.1	7164.6	4878.6	2878.1	1755.1	1005.6	717.5	634.8	618.8	624.2
27.5°	8999.7	8751.6	7986.1	5132.0	2747.4	1528.4	850.9	658.8	602.8	568.2	554.8
30°	9695.9	9407.8	8394.2	5281.4	2467.3	1288.3	754.9	632.2	618.8	568.2	552.1
32.5°	10232.0	9949.3	8983.7	5505.5	2352.6	1133.6	621.5	493.5	458.8	453.5	501.5
35°	11053.6	10752.2	9487.8	5628.2	2264.6	1053.6	538.8	440.1	400.1	384.1	386.8
37.5°	11819.1	11613.7	9954.6	5676.2	2171.2	1029.6	482.8	394.8	360.1	349.4	346.8
40°	12459.3	12000.5	10397.4	5726.8	2131.2	984.3	448.1	360.1	336.1	320.1	320.1
42.5°	12752.7	12285.9	10893.5	5697.5	2120.6	912.2	448.1	330.8	312.1	296.1	293.4
45°	12688.7	12499.3	11114.9	5684.2	2120.6	840.2	408.1	322.8	296.1	274.7	269.4
47.5°	12854.1	12606.0	11392.3	5740.2	2077.9	789.5	344.1	338.8	280.1	253.4	248.1
50°	12883.4	12931.4	11875.1	6030.9	1984.5	725.5	269.4	333.4	269.4	229.4	224.1
52°	13075.5	12776.7	12021.8	6185.6	1885.8	677.5	226.7	285.4	258.7	213.4	208.1
52.5°	12811.4	13006.1	12056.5	6241.7	1896.5	645.5	218.7	280.1	253.4	213.4	200.1
55°	12515.3	12702.0	11915.2	6361.7	1739.1	506.8	170.7	202.7	229.4	186.7	178.7
57.5°	10877.5	11066.9	10354.7	5825.5	1416.4	357.4	141.4	152.0	202.7	173.4	165.4
60°	9669.2	9533.2	8690.3	4860.0	1005.6	200.1	112.0	117.4	221.4	160.0	157.4
62.5°	8837.0	8546.3	7263.3	3753.0	613.5	133.4	88.0	90.7	170.7	149.4	149.4
65°	6537.7	6212.3	4825.3	2269.9	301.4	93.4	66.7	72.0	106.7	128.0	128.0
67.5°	3731.7	3606.3	2331.3	1024.3	125.4	58.7	50.7	56.0	82.7	104.0	98.7
70°	1715.1	1539.1	896.2	216.1	58.7	40.0	40.0	45.3	66.7	77.4	72.0
72.5°	501.5	474.8	218.7	34.7	24.0	24.0	26.7	34.7	50.7	58.7	53.3
75°	37.3	24.0	16.0	10.7	10.7	16.0	21.3	34.7	50.7	56.0	45.3
77.5°	2.7	5.3	2.7	2.7	8.0	16.0	24.0	42.7	66.7	69.4	50.7
80°	2.7	2.7	0.0	2.7	8.0	16.0	26.7	48.0	74.7	80.0	42.7
82.5°	0.0	0.0	0.0	2.7	10.7	21.3	32.0	50.7	69.4	85.4	45.3
85°	0.0	0.0	0.0	2.7	16.0	29.3	37.3	13.3	8.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8
2.5°	5734.8	5665.5	5638.8	5662.8	5654.8	5646.8	5793.5	5761.5	5756.2	5804.2	5793.5
5°	4305.1	4182.4	4518.5	4382.5	4523.9	4609.2	4625.2	4633.2	4731.9	4627.9	4763.9
7.5°	3067.5	3099.5	3096.8	3187.5	3350.2	3494.3	3579.6	3512.9	3507.6	3494.3	3435.6
10°	2451.3	2395.3	2384.6	2363.3	2414.0	2536.7	2640.7	2558.0	2499.3	2579.3	2555.3
12.5°	2003.2	1925.8	1883.2	1797.8	1800.5	1883.2	1883.2	1883.2	1941.8	1987.2	2021.9
15°	1536.4	1472.4	1472.4	1387.0	1368.4	1371.0	1413.7	1419.0	1512.4	1539.1	1552.4
17.5°	1075.0	1040.3	1080.3	1115.0	1093.6	1099.0	1115.0	1120.3	1133.6	1123.0	1149.6
20°	826.9	821.6	832.2	893.6	938.9	965.6	946.9	920.2	904.2	866.9	866.9
22.5°	701.5	712.2	730.9	781.5	840.2	856.2	834.9	773.5	725.5	720.2	722.9
25°	624.2	634.8	664.2	696.2	728.2	754.9	733.5	688.2	661.5	637.5	637.5
27.5°	576.2	581.5	597.5	621.5	648.2	669.5	661.5	637.5	608.2	597.5	573.5
30°	538.8	546.8	565.5	570.8	594.8	605.5	592.2	586.8	568.2	554.8	546.8
32.5°	520.1	517.5	530.8	536.1	538.8	546.8	530.8	538.8	536.1	514.8	506.8
35°	392.1	413.4	448.1	477.5	485.5	496.1	493.5	482.8	453.5	429.4	400.1
37.5°	352.1	365.4	384.1	408.1	440.1	453.5	448.1	421.4	386.8	370.8	365.4
40°	325.4	333.4	349.4	365.4	397.4	421.4	402.8	378.8	352.1	338.8	330.8
42.5°	301.4	304.1	312.1	328.1	352.1	389.4	357.4	325.4	314.7	306.7	301.4
45°	274.7	274.7	285.4	293.4	320.1	354.8	322.8	293.4	288.1	282.7	280.1
47.5°	253.4	256.1	261.4	272.1	293.4	317.4	296.1	272.1	258.7	256.1	250.7
50°	226.7	229.4	240.1	250.7	277.4	290.7	277.4	250.7	237.4	229.4	229.4
52°	205.4	213.4	224.1	245.4	264.1	285.4	269.4	240.1	224.1	216.1	210.7
52.5°	202.7	208.1	218.7	242.7	264.1	282.7	266.7	237.4	218.7	213.4	208.1
55°	181.4	189.4	208.1	237.4	261.4	282.7	261.4	234.7	208.1	194.7	189.4
57.5°	173.4	178.7	202.7	240.1	258.7	282.7	261.4	234.7	208.1	184.0	178.7
60°	165.4	176.0	202.7	232.1	256.1	285.4	264.1	232.1	202.7	173.4	173.4
62.5°	157.4	165.4	200.1	226.7	245.4	274.7	253.4	226.7	194.7	165.4	162.7
65°	136.0	149.4	176.0	189.4	210.7	237.4	216.1	197.4	170.7	146.7	144.0
67.5°	104.0	109.4	130.7	146.7	160.0	184.0	173.4	149.4	130.7	112.0	112.0
70°	72.0	77.4	93.4	101.4	114.7	128.0	120.0	101.4	88.0	77.4	74.7
72.5°	50.7	53.3	58.7	64.0	69.4	74.7	72.0	58.7	50.7	48.0	45.3
75°	40.0	45.3	48.0	45.3	42.7	40.0	40.0	34.7	29.3	26.7	26.7
77.5°	40.0	42.7	40.0	34.7	29.3	26.7	24.0	21.3	16.0	13.3	16.0
80°	34.7	34.7	34.7	29.3	26.7	24.0	21.3	18.7	16.0	13.3	13.3
82.5°	37.3	37.3	34.7	29.3	29.3	24.0	24.0	21.3	18.7	13.3	13.3
85°	0.0	0.0	0.0	5.3	13.3	24.0	24.0	21.3	18.7	16.0	16.0
87.5°	0.0	0.0	0.0	0.0	2.7	5.3	10.7	13.3	16.0	16.0	16.0
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°	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8
2.5°	5889.6	5990.9	6183.0	6375.0	6492.4	6631.1	6881.8	7015.2	7188.6	7273.9	7442.0
5°	4745.3	4985.3	5070.7	5289.4	5524.1	5758.9	6132.3	6543.1	6884.5	7119.2	7423.3
7.5°	3462.2	3518.3	3849.0	3995.7	4379.8	4806.6	5316.1	5833.5	6265.7	6649.8	6881.8
10°	2595.4	2800.7	3008.8	3288.9	3598.3	4038.4	4526.5	5097.3	5657.5	6041.6	6335.0
12.5°	2085.9	2248.6	2526.0	2827.4	3208.8	3499.6	3990.4	4555.9	5281.4	5657.5	6044.3
15°	1579.1	1787.1	2101.9	2414.0	2816.7	3123.5	3619.6	4331.8	5265.4	5782.9	6116.3
17.5°	1171.0	1312.3	1595.1	1944.5	2355.3	2787.4	3456.9	4307.8	5444.1	6060.3	6404.4
20°	896.2	944.2	1123.0	1435.0	1880.5	2446.0	3192.8	4411.8	5972.2	6735.1	7084.5
22.5°	725.5	746.9	816.2	1032.3	1464.4	2147.2	3067.5	4483.9	6567.1	7543.3	8010.1
25°	632.2	626.8	672.2	765.5	1144.3	1867.2	2907.4	4755.9	7295.3	8492.9	8911.7
27.5°	576.2	576.2	597.5	664.2	949.6	1685.8	2806.1	4950.6	8028.8	9327.8	9554.5
30°	546.8	552.1	613.5	634.8	789.5	1469.7	2638.0	5148.0	8730.3	9861.3	10173.4
32.5°	506.8	485.5	472.1	525.5	664.2	1275.0	2470.0	5230.7	9298.5	10514.8	10781.5
35°	389.4	378.8	394.8	434.8	570.8	1109.6	2283.3	5324.1	9952.0	11272.3	11325.7
37.5°	352.1	349.4	360.1	394.8	480.1	965.6	2149.9	5300.1	10450.8	11899.1	11755.1
40°	325.4	325.4	333.4	362.8	429.4	864.2	2011.2	5278.7	10933.6	12603.3	12181.9
42.5°	304.1	304.1	317.4	336.1	408.1	797.5	1907.2	5249.4	11339.0	13035.4	12432.6
45°	274.7	282.7	304.1	322.8	413.4	752.2	1829.8	5137.4	11477.7	13030.1	12312.6
47.5°	253.4	264.1	285.4	312.1	373.4	738.9	1776.5	5038.7	11429.7	12710.0	11936.5
50°	229.4	242.7	272.1	317.4	317.4	712.2	1720.5	5126.7	11395.0	12462.0	11576.4
52°	213.4	224.1	261.4	309.4	277.4	656.2	1685.8	5297.4	11536.4	12430.0	11416.4
52.5°	210.7	218.7	253.4	304.1	264.1	645.5	1661.8	5337.4	11581.7	12349.9	11525.7
55°	186.7	197.4	232.1	237.4	216.1	530.8	1584.4	5428.1	11357.7	12192.6	11421.7
57.5°	176.0	181.4	205.4	194.7	186.7	400.1	1363.0	5286.7	10088.0	10829.5	10626.8
60°	162.7	168.0	192.1	152.0	157.4	280.1	1024.3	4590.5	8100.8	9023.7	9389.1
62.5°	157.4	154.7	181.4	122.7	133.4	202.7	722.9	3731.7	6241.7	7428.6	8060.8
65°	138.7	136.0	130.7	104.0	114.7	157.4	432.1	2435.3	4398.5	5620.2	5966.9
67.5°	106.7	112.0	96.0	82.7	96.0	122.7	240.1	1091.0	2307.3	3371.6	3651.6
70°	74.7	80.0	77.4	72.0	85.4	101.4	138.7	373.4	954.9	1771.1	1952.5
72.5°	45.3	56.0	58.7	61.3	74.7	88.0	98.7	120.0	253.4	626.8	778.9
75°	26.7	37.3	45.3	53.3	61.3	74.7	82.7	85.4	88.0	117.4	189.4
77.5°	18.7	26.7	40.0	50.7	61.3	74.7	88.0	93.4	88.0	82.7	88.0
80°	16.0	26.7	37.3	48.0	64.0	77.4	88.0	88.0	85.4	74.7	80.0
82.5°	16.0	26.7	40.0	50.7	61.3	74.7	85.4	88.0	80.0	74.7	77.4
85°	18.7	29.3	42.7	53.3	66.7	61.3	56.0	45.3	42.7	34.7	37.3
87.5°	18.7	26.7	26.7	29.3	32.0	32.0	32.0	29.3	24.0	21.3	21.3
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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CATALOG NUMBER: GALN-SA4D-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8	6817.8
2.5°	7450.0	7663.4	7655.4	7660.7	7628.7	7412.6	7308.6	7044.5	7119.2	7087.2
5°	7735.4	7946.1	8127.5	8106.1	7860.7	7567.3	7132.6	6721.8	6609.7	6444.4
7.5°	7450.0	7956.8	8124.8	8100.8	7738.0	7361.9	6668.4	6257.7	6062.9	5953.6
10°	6996.5	7583.3	7791.4	7834.1	7588.7	7017.9	6380.4	5721.5	5617.5	5428.1
12.5°	6737.8	7164.6	7292.6	7407.3	7321.9	6895.2	6161.6	5529.5	5385.4	5260.1
15°	6527.1	6780.5	6833.8	6964.5	7015.2	6785.8	6276.3	5737.5	5382.8	5369.4
17.5°	6721.8	6617.7	6423.0	6463.0	6623.1	6788.5	6572.4	6148.3	5804.2	5761.5
20°	7044.5	6585.7	6145.6	6244.3	6377.7	6884.5	7020.5	6721.8	6524.4	6415.0
22.5°	7415.3	6641.8	6057.6	6105.6	6359.0	7100.5	7746.0	7580.7	7212.6	7055.2
25°	8100.8	6796.5	6127.0	6159.0	6505.7	7402.0	8402.2	8524.9	8306.2	8274.2
27.5°	8770.3	7196.6	6279.0	6207.0	6580.4	7695.4	8799.7	9458.5	9074.4	8999.7
30°	9111.7	7522.0	6505.7	6383.0	6889.8	7874.1	9039.7	10066.7	9730.6	9695.9
32.5°	9634.5	7818.1	6681.8	6524.4	7063.2	8095.5	9487.8	10730.8	10405.4	10232.0
35°	9853.3	8140.8	7068.5	6884.5	7559.3	8404.9	9717.2	11323.0	11221.6	11053.6
37.5°	10274.7	8487.6	7524.7	7514.0	8159.5	8807.7	10130.7	12128.5	12109.9	11819.1
40°	10309.4	8866.3	8244.8	8580.9	9087.7	9509.2	10493.4	12352.6	12656.7	12459.3
42.5°	10362.7	9530.5	9490.5	9767.9	10202.7	10112.0	10506.8	12405.9	12870.1	12752.7
45°	10386.7	10194.7	10757.5	11269.6	11451.0	10901.5	10381.4	12304.6	12982.1	12688.7
47.5°	10194.7	10765.5	11781.8	12771.4	12824.7	11387.0	10328.1	12200.6	13048.8	12854.1
50°	10221.4	11122.9	12667.3	13552.9	13358.2	11816.5	10245.4	12136.5	13014.1	12883.4
52°	10157.4	11130.9	12792.7	13536.9	13400.9	11579.1	10104.0	11891.1	12982.1	13075.5
52.5°	10229.4	11082.9	12662.0	13547.6	13371.5	11696.4	10085.3	12027.2	13000.8	12811.4
55°	9981.3	10512.1	11896.5	12272.6	12245.9	10616.1	9511.8	11576.4	12512.6	12515.3
57.5°	9021.1	9111.7	9330.5	9322.5	9199.8	8346.2	8135.5	10645.5	11154.9	10877.5
60°	7948.8	6671.1	6081.6	5841.5	5705.5	5566.8	7196.6	9738.6	9786.6	9669.2
62.5°	6868.5	4625.2	3841.0	3774.3	3806.3	4313.1	6956.5	9378.5	9090.4	8837.0
65°	5542.8	3371.6	2790.1	2702.0	3014.1	3560.9	5630.8	7191.2	6748.5	6537.7
67.5°	3480.9	2459.3	1885.8	1720.5	2096.6	2451.3	3699.6	4518.5	4022.4	3731.7
70°	2064.5	1373.7	853.6	765.5	861.6	1307.0	2072.5	2253.9	1864.5	1715.1
72.5°	813.5	504.1	237.4	202.7	210.7	458.8	762.9	744.2	562.8	501.5
75°	218.7	152.0	82.7	66.7	56.0	85.4	122.7	80.0	29.3	37.3
77.5°	101.4	90.7	72.0	56.0	42.7	32.0	16.0	5.3	5.3	2.7
80°	88.0	77.4	66.7	56.0	42.7	26.7	13.3	2.7	2.7	2.7
82.5°	82.7	72.0	61.3	50.7	40.0	26.7	13.3	2.7	0.0	0.0
85°	34.7	45.3	50.7	48.0	42.7	26.7	13.3	2.7	0.0	0.0
87.5°	18.7	16.0	13.3	10.7	8.0	5.3	5.3	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)