

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: P452783

Luminaire Tested: **GALN-SA3D-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452783
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-SA3D-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 15104 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

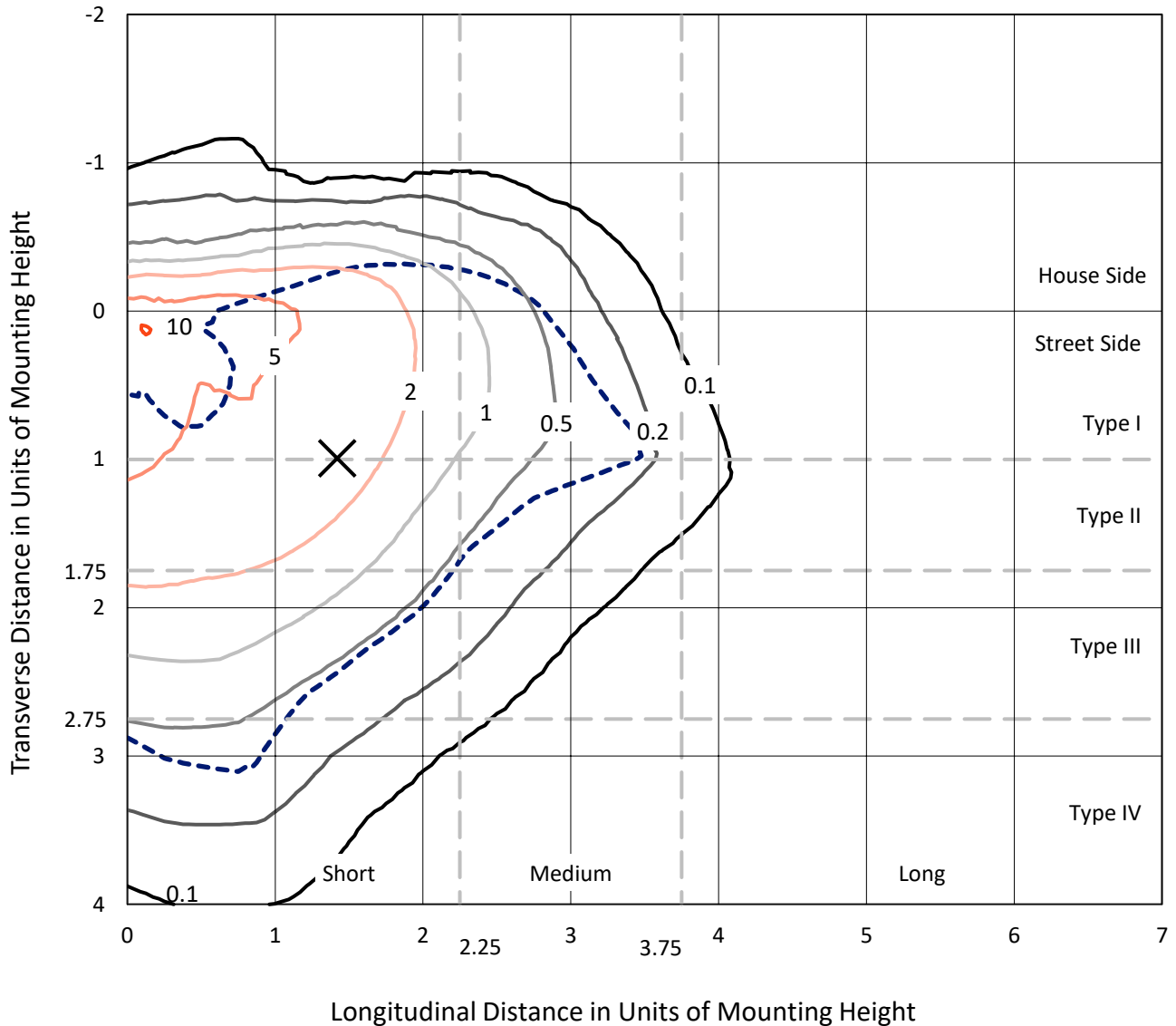
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

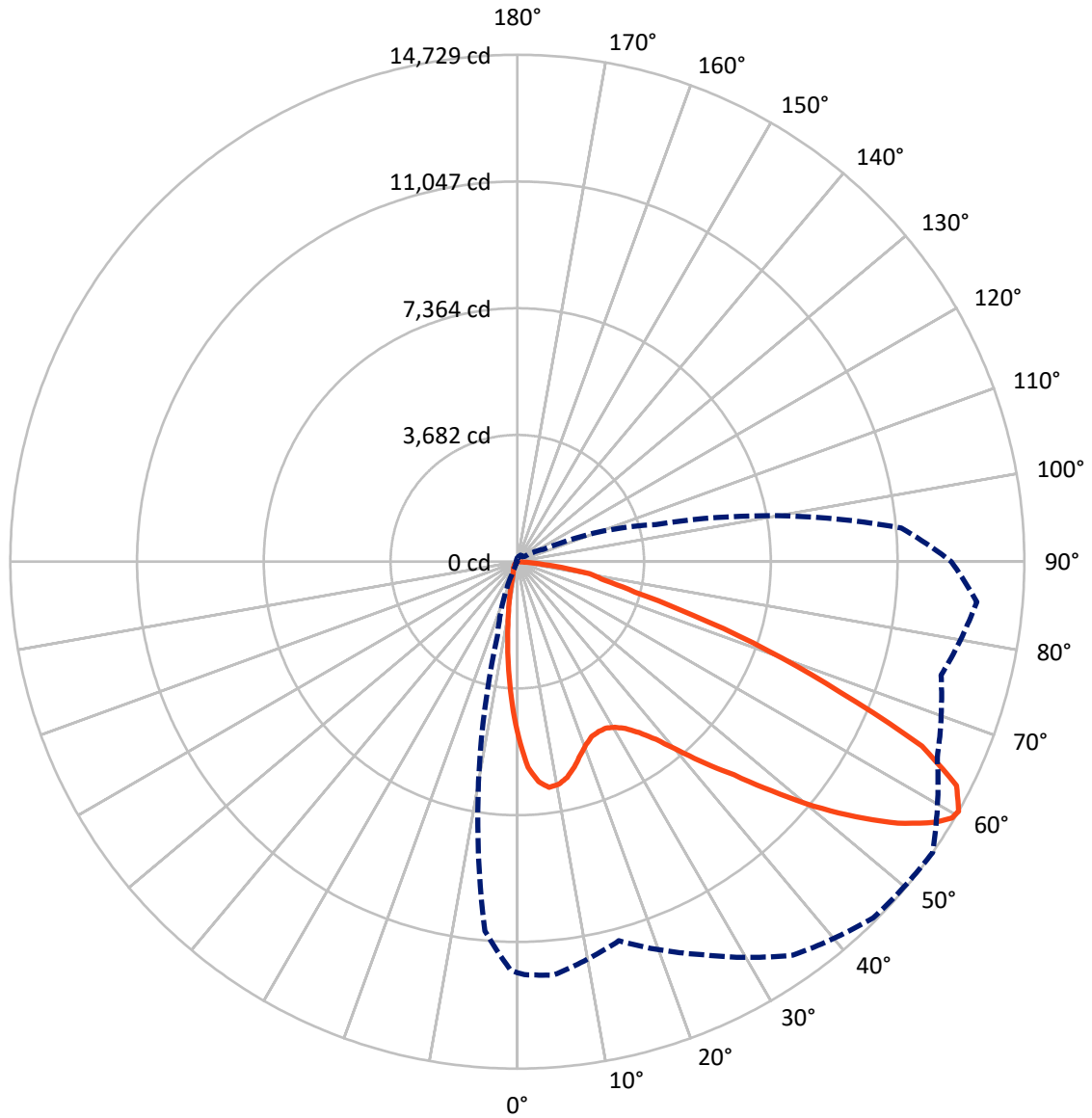
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	2241.6	0.0	2241.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	12862.4	0.0	12862.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	15104.0	0.0	15104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.7	2.5
10°-20°	745.8	4.9
20°-30°	1103.9	7.3
30°-40°	1645.4	10.9
40°-50°	2409.8	16.0
50°-60°	3479.0	23.0
60°-70°	3659.7	24.2
70°-80°	1505.5	10.0
80°-90°	176.3	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°	15104.0	100.0
0°-180°	15104.0	100.0

Coefficient of Utilization



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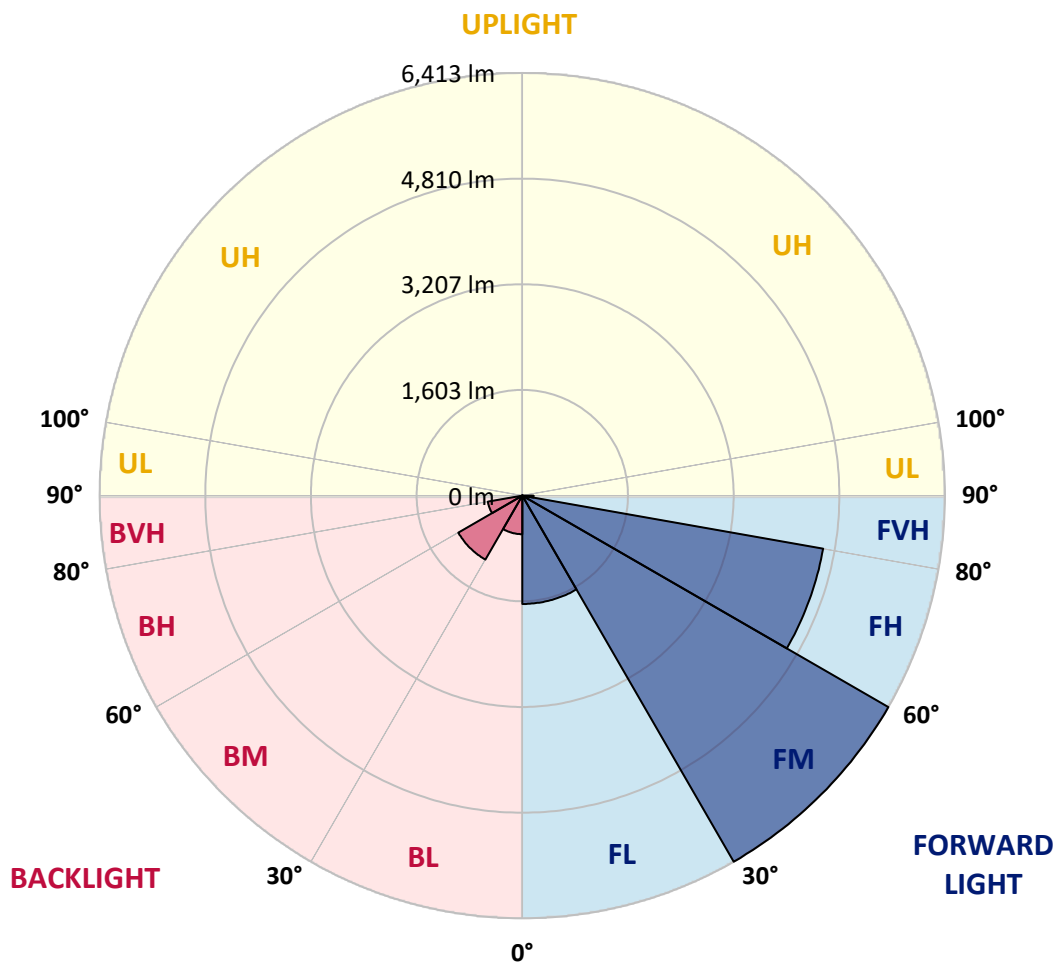
CATALOG NUMBER: GALN-SA3D-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1643.5	10.9			
FM	(30°-60°)	6413.2	42.5			
FH	(60°-80°)	4634.6	30.7			G2/5000
FVH	(80°-90°)	171.1	1.1			G2/225
BL	(0°-30°)	584.8	3.9	B2/1000		
BM	(30°-60°)	1121.0	7.4	B2/2500		
BH	(60°-80°)	530.6	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.2	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2
2.5°	5587.3	5578.0	5660.6	5795.4	5931.5	6002.4	5988.4	5982.6	5869.8	5787.3	5614.1
5°	5575.7	5623.4	5771.0	6136.1	6412.8	6546.5	6586.0	6419.7	6200.0	5881.5	5488.5
7.5°	5242.1	5301.3	5542.0	6112.8	6604.6	6895.2	6884.8	6618.5	6165.1	5672.2	5111.8
10°	4828.2	4897.9	5180.4	5873.3	6511.6	6895.2	6916.2	6579.0	6015.2	5382.7	4793.3
12.5°	4536.4	4618.9	4931.6	5650.1	6272.1	6649.9	6674.3	6430.2	5902.4	5271.1	4620.1
15°	4437.6	4515.4	4832.8	5537.4	6017.5	6220.9	6215.1	6189.6	5858.2	5297.9	4629.4
17.5°	4607.3	4671.2	5029.3	5588.5	5779.2	5758.2	5788.5	5911.7	5867.5	5522.2	4922.3
20°	5045.6	5110.7	5495.5	5745.5	5596.6	5464.1	5478.1	5683.8	5953.6	5944.3	5380.4
22.5°	5649.0	5759.4	6108.2	6050.0	5572.2	5281.6	5252.5	5519.9	6100.0	6430.2	5998.9
25°	6412.8	6524.4	6796.4	6536.0	5692.0	5238.6	5211.8	5469.9	6277.9	6904.5	6695.3
27.5°	7054.5	7139.4	7410.3	7009.2	5868.7	5257.2	5213.0	5476.9	6422.1	7308.0	7282.4
30°	7568.4	7631.2	7790.4	7230.1	6021.0	5338.5	5287.4	5579.2	6486.0	7504.4	7757.9
32.5°	7982.2	8088.0	8138.0	7466.1	6239.5	5492.0	5404.8	5775.7	6641.8	7747.4	8256.6
35°	8455.4	8577.5	8513.5	7691.6	6527.9	5731.5	5624.5	6094.2	6877.8	7971.8	8835.6
37.5°	9055.3	9196.0	8946.0	7928.8	6832.5	6091.9	6041.9	6541.8	7235.9	8292.7	9456.4
40°	9676.1	9757.5	9365.7	8217.1	7206.8	6616.2	6663.9	7206.8	7704.4	8677.5	10116.7
42.5°	10160.9	10237.6	9797.0	8458.9	7589.3	7238.2	7437.0	8009.0	8241.5	9071.6	10609.7
45°	10531.8	10596.9	10095.8	8722.8	8105.5	8139.2	8514.7	8835.6	8779.8	9312.2	10989.8
47.5°	10820.1	10875.9	10326.0	9006.5	8878.6	9241.3	9815.6	9951.7	9337.8	9572.7	11334.0
50°	10938.7	10955.0	10398.1	9368.0	9756.3	10645.7	11244.4	11161.9	9977.2	9862.1	11700.2
52.5°	11093.3	11089.8	10603.9	9712.2	10581.8	11901.3	12498.9	12311.7	10700.4	10295.8	12111.7
55°	11499.0	11503.7	11044.5	10200.4	11285.1	12915.1	13554.5	13418.5	11463.0	11028.2	12591.9
57.5°	11992.0	12009.4	11671.1	10771.3	11957.1	13649.8	14342.7	14290.4	12494.2	11843.2	13045.3
59°	12055.9	12090.8	11967.6	11173.5	12355.9	13875.3	14612.4	14663.6	13046.4	12380.3	13290.6
60°	11939.7	11997.8	12053.6	11401.4	12589.5	13956.7	14628.7	14728.7	13461.5	12745.3	13402.2
62.5°	11432.8	11524.6	11804.8	12102.4	12881.3	13703.3	14109.0	14318.3	13975.3	13704.4	13412.6
65°	10768.9	10816.6	11221.2	12226.8	12315.2	12519.8	12645.3	12913.9	13358.0	14074.1	12932.5
67.5°	9680.8	9821.4	10316.7	11504.9	10644.5	10402.7	10371.3	10103.9	11257.2	13192.9	11749.0
70°	7997.4	8060.1	8670.5	9432.0	8033.4	7661.4	7810.2	7710.2	8726.3	11357.2	9456.4
72.5°	6047.7	6189.6	6786.0	7518.4	5466.4	4984.0	5394.4	5357.2	6554.6	9127.4	6496.5
75°	4302.7	4394.5	5154.9	5883.8	3828.4	3243.6	3391.2	3529.6	4575.9	7206.8	3838.8
77.5°	2956.4	3035.5	3606.3	3891.1	2792.5	2675.1	2447.2	2580.9	2998.3	4276.0	2089.1
80°	1783.4	1779.9	2155.4	2225.2	1945.0	2258.9	1895.0	2127.5	1812.5	1829.9	809.2
82.5°	1157.9	1146.3	1318.4	1436.9	1082.4	1138.2	763.8	1101.0	1181.2	510.4	255.8
85°	518.5	540.6	633.6	835.9	474.3	252.3	155.8	338.3	503.4	256.9	0.0
87.5°	53.5	41.9	111.6	203.5	65.1	7.0	23.3	11.6	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°	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2
2.5°	5533.9	5466.4	5265.3	5077.0	4915.4	4717.7	4589.9	4388.7	4266.7	4229.5	4235.3
5°	5311.8	5117.7	4735.2	4429.4	4088.8	3894.6	3599.3	3315.7	3162.2	3105.2	3079.7
7.5°	4846.8	4638.7	4177.1	3697.0	3331.9	2991.3	2771.6	2521.6	2350.7	2210.1	2185.6
10°	4501.5	4228.3	3656.3	3140.1	2851.8	2596.0	2376.3	2126.4	1925.2	1764.8	1720.6
12.5°	4294.6	3988.8	3350.5	2918.1	2644.9	2382.1	2096.1	1806.6	1600.9	1427.6	1347.4
15°	4257.4	3902.8	3264.5	2758.8	2421.6	2104.3	1724.1	1411.4	1199.8	1035.9	985.9
17.5°	4481.7	4057.4	3251.7	2592.5	2129.8	1679.9	1284.6	1025.4	787.1	695.2	659.2
20°	4881.7	4330.6	3250.6	2399.6	1829.9	1293.9	902.2	668.5	572.0	527.8	506.9
22.5°	5426.9	4702.6	3312.2	2233.3	1518.3	954.5	644.1	532.5	476.7	440.6	432.5
25°	6093.1	5253.7	3463.3	2120.5	1280.0	748.7	531.3	455.7	409.2	393.0	386.0
27.5°	6684.8	5781.5	3629.6	2004.3	1109.1	662.7	492.9	417.4	380.2	367.4	356.9
30°	7195.2	6260.5	3709.8	1850.8	971.9	606.9	499.9	446.4	397.6	359.2	341.8
32.5°	7620.7	6627.8	3762.1	1711.3	855.7	496.4	395.3	345.3	323.2	309.2	297.6
35°	8153.1	7025.4	3730.7	1632.3	796.4	452.2	360.4	297.6	260.4	232.5	220.9
37.5°	8711.2	7423.0	3676.1	1567.2	769.6	419.7	343.0	282.5	241.8	212.8	197.6
40°	9289.0	7791.6	3612.1	1506.7	745.2	398.8	332.5	269.7	229.0	197.6	181.4
42.5°	9818.0	8150.8	3586.5	1467.2	705.7	402.3	324.4	263.9	216.2	183.7	169.7
45°	10245.8	8491.5	3621.4	1446.2	662.7	396.4	326.7	256.9	205.8	174.4	160.4
47.5°	10702.7	8972.8	3734.2	1425.3	620.8	368.5	344.1	255.8	201.1	168.6	153.5
50°	11234.0	9588.9	3992.3	1374.2	569.7	338.3	366.2	254.6	195.3	161.6	146.5
52.5°	11942.0	10288.8	4258.5	1284.6	495.3	309.2	349.9	251.1	183.7	153.5	138.3
55°	12577.9	11025.9	4484.1	1178.9	401.1	267.4	315.1	236.0	163.9	139.5	125.6
57.5°	12840.7	11442.1	4477.1	1032.4	320.9	234.8	259.3	216.2	143.0	123.2	111.6
59°	12744.2	11389.8	4327.1	924.2	293.0	217.4	215.1	213.9	133.7	111.6	102.3
60°	12608.1	11199.1	4165.5	870.8	275.5	205.8	197.6	211.6	125.6	104.6	95.3
62.5°	12087.3	10408.5	3629.6	780.1	252.3	174.4	158.1	179.0	111.6	90.7	82.5
65°	11332.8	9193.7	3072.7	754.5	245.3	144.2	131.4	127.9	95.3	76.7	69.8
67.5°	9861.0	7780.0	2489.1	737.1	247.6	120.9	115.1	96.5	79.1	63.9	59.3
70°	7895.1	6066.3	2038.0	717.3	250.0	98.8	96.5	76.7	63.9	53.5	48.8
72.5°	4796.8	3595.8	1604.4	623.1	243.0	79.1	86.0	58.1	46.5	38.4	36.0
75°	2965.7	2461.2	995.2	484.8	160.4	58.1	60.5	36.0	31.4	24.4	24.4
77.5°	1718.3	1554.4	355.7	174.4	70.9	34.9	26.7	18.6	17.4	10.5	10.5
80°	712.7	570.8	123.2	59.3	38.4	16.3	5.8	1.2	0.0	0.0	0.0
82.5°	208.1	184.8	33.7	26.7	11.6	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°	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2
2.5°	4136.4	4098.1	4080.6	4139.9	4085.3	4155.0	4101.6	4124.8	4193.4	4223.6	4301.5
5°	3095.9	3056.4	3037.8	3127.3	3122.7	3166.9	3162.2	3202.9	3237.8	3159.9	3240.1
7.5°	2156.6	2129.8	2174.0	2243.8	2318.2	2293.8	2293.8	2239.1	2257.7	2246.1	2242.6
10°	1640.4	1548.6	1525.3	1523.0	1550.9	1556.7	1525.3	1449.7	1477.6	1485.8	1534.6
12.5°	1290.5	1219.5	1111.4	1062.6	1049.8	1060.3	956.8	890.5	921.9	903.3	951.0
15°	925.4	867.3	803.3	748.7	733.6	712.7	599.9	520.8	511.5	515.0	523.2
17.5°	660.3	620.8	620.8	562.7	531.3	468.5	411.6	376.7	373.2	376.7	382.5
20°	487.1	466.2	463.9	448.8	413.9	372.0	332.5	325.5	323.2	329.0	331.3
22.5°	419.7	397.6	379.0	377.8	345.3	310.4	291.8	282.5	283.7	286.0	291.8
25°	375.5	352.3	332.5	320.9	297.6	273.2	255.8	251.1	251.1	254.6	255.8
27.5°	344.1	315.1	297.6	281.3	260.4	239.5	224.4	220.9	218.6	220.9	226.7
30°	322.0	293.0	270.9	246.5	230.2	210.4	197.6	193.0	191.8	193.0	197.6
32.5°	275.5	258.1	240.7	218.6	198.8	186.0	172.1	163.9	163.9	166.2	170.9
35°	208.1	198.8	197.6	191.8	175.5	161.6	145.3	137.2	137.2	141.8	144.2
37.5°	183.7	166.2	163.9	161.6	154.6	136.0	120.9	113.9	112.8	116.3	120.9
40°	167.4	147.6	137.2	134.9	136.0	115.1	98.8	91.8	91.8	93.0	97.7
42.5°	154.6	131.4	112.8	110.4	115.1	96.5	80.2	73.2	73.2	73.2	79.1
45°	144.2	117.4	95.3	83.7	90.7	79.1	65.1	58.1	55.8	58.1	60.5
47.5°	137.2	107.0	83.7	67.4	67.4	62.8	52.3	44.2	41.9	43.0	46.5
50°	131.4	97.7	70.9	54.6	48.8	50.0	39.5	33.7	31.4	31.4	34.9
52.5°	122.1	88.4	61.6	46.5	37.2	33.7	29.1	24.4	23.3	24.4	26.7
55°	110.4	80.2	53.5	38.4	29.1	23.3	20.9	17.4	16.3	17.4	20.9
57.5°	97.7	67.4	43.0	30.2	19.8	15.1	14.0	11.6	9.3	10.5	12.8
59°	89.5	60.5	37.2	24.4	15.1	10.5	10.5	8.1	5.8	7.0	10.5
60°	86.0	55.8	31.4	20.9	12.8	8.1	8.1	5.8	3.5	4.7	8.1
62.5°	73.2	46.5	24.4	12.8	5.8	1.2	3.5	1.2	0.0	1.2	3.5
65°	61.6	37.2	16.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	1.2
67.5°	51.2	27.9	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	40.7	18.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	27.9	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.0	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: P452783

CATALOG NUMBER: GALN-SA3D-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2	5114.2
2.5°	4306.2	4472.4	4574.7	4767.7	4965.4	5117.7	5308.3	5479.2	5550.1	5587.3
5°	3321.5	3552.8	3749.3	4043.4	4316.6	4649.1	4986.3	5383.9	5536.2	5575.7
7.5°	2331.0	2567.0	2772.7	3113.4	3502.8	3948.1	4452.7	4957.2	5179.3	5242.1
10°	1683.4	1935.7	2186.8	2527.4	2891.3	3373.8	3899.3	4523.6	4779.4	4828.2
12.5°	1062.6	1333.5	1741.5	2162.4	2547.2	2935.5	3485.4	4164.3	4446.9	4536.4
15°	616.2	818.5	1126.5	1675.3	2164.7	2678.6	3278.5	4029.5	4345.7	4437.6
17.5°	412.7	482.5	694.1	1113.7	1760.1	2441.4	3226.1	4139.9	4489.9	4607.3
20°	347.6	379.0	453.4	678.9	1355.6	2229.8	3240.1	4439.9	4899.1	5045.6
22.5°	305.8	334.8	382.5	488.3	946.3	1967.1	3306.4	4868.9	5461.8	5649.0
25°	269.7	298.8	340.6	404.6	635.9	1663.6	3451.7	5496.7	6207.0	6412.8
27.5°	239.5	266.2	302.3	356.9	489.4	1325.3	3580.7	6108.2	6887.1	7054.5
30°	211.6	233.7	268.6	310.4	406.9	1021.9	3645.8	6643.0	7382.4	7568.4
32.5°	183.7	204.6	238.3	272.0	334.8	778.9	3600.5	7035.9	7863.7	7982.2
35°	156.9	179.0	206.9	238.3	289.5	629.0	3373.8	7477.7	8362.4	8455.4
37.5°	134.9	153.5	182.5	206.9	261.6	503.4	3099.4	7875.3	8921.6	9055.3
40°	113.9	132.5	161.6	183.7	240.7	396.4	2851.8	8317.1	9511.0	9676.1
42.5°	93.0	115.1	140.7	176.7	206.9	302.3	2551.9	8675.1	9954.0	10160.9
45°	74.4	98.8	126.7	175.5	180.2	230.2	2262.4	8954.2	10345.8	10531.8
47.5°	59.3	83.7	122.1	163.9	147.6	182.5	2097.3	9246.0	10671.3	10820.1
50°	47.7	69.8	127.9	144.2	123.2	154.6	2092.6	9571.5	10839.9	10938.7
52.5°	38.4	57.0	108.1	110.4	104.6	136.0	2218.2	9937.7	11011.9	11093.3
55°	32.6	47.7	70.9	81.4	94.2	123.2	2312.4	10501.6	11422.3	11499.0
57.5°	25.6	40.7	54.6	65.1	83.7	112.8	2325.2	10936.4	11942.0	11992.0
59°	22.1	34.9	48.8	58.1	76.7	105.8	2272.8	10963.1	11975.7	12055.9
60°	18.6	31.4	43.0	54.6	70.9	100.0	2215.9	10768.9	11850.1	11939.7
62.5°	14.0	24.4	31.4	44.2	58.1	86.0	1946.2	10091.2	11370.0	11432.8
65°	9.3	17.4	23.3	32.6	45.3	74.4	1585.8	9212.3	10628.3	10768.9
67.5°	5.8	12.8	18.6	24.4	37.2	62.8	1130.0	7899.7	9590.1	9680.8
70°	3.5	8.1	14.0	19.8	29.1	50.0	670.8	6244.2	7978.8	7997.4
72.5°	2.3	5.8	9.3	14.0	23.3	45.3	325.5	4070.2	5825.7	6047.7
75°	1.2	3.5	5.8	10.5	18.6	37.2	155.8	2719.3	4238.8	4302.7
77.5°	0.0	1.2	3.5	7.0	14.0	29.1	90.7	1785.7	2890.2	2956.4
80°	0.0	0.0	2.3	5.8	10.5	18.6	54.6	1053.3	1750.8	1783.4
82.5°	0.0	0.0	1.2	4.7	7.0	14.0	27.9	462.7	1146.3	1157.9
85°	0.0	0.0	1.2	4.7	5.8	9.3	10.5	62.8	509.2	518.5
87.5°	0.0	0.0	1.2	5.8	5.8	5.8	5.8	3.5	43.0	53.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)