

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: P528653

Luminaire Tested: **GALN-SA3D-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528653
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-SA3D-730-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 11627 lumens
Efficiency: N/A
Efficacy: 63.2 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): 184
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



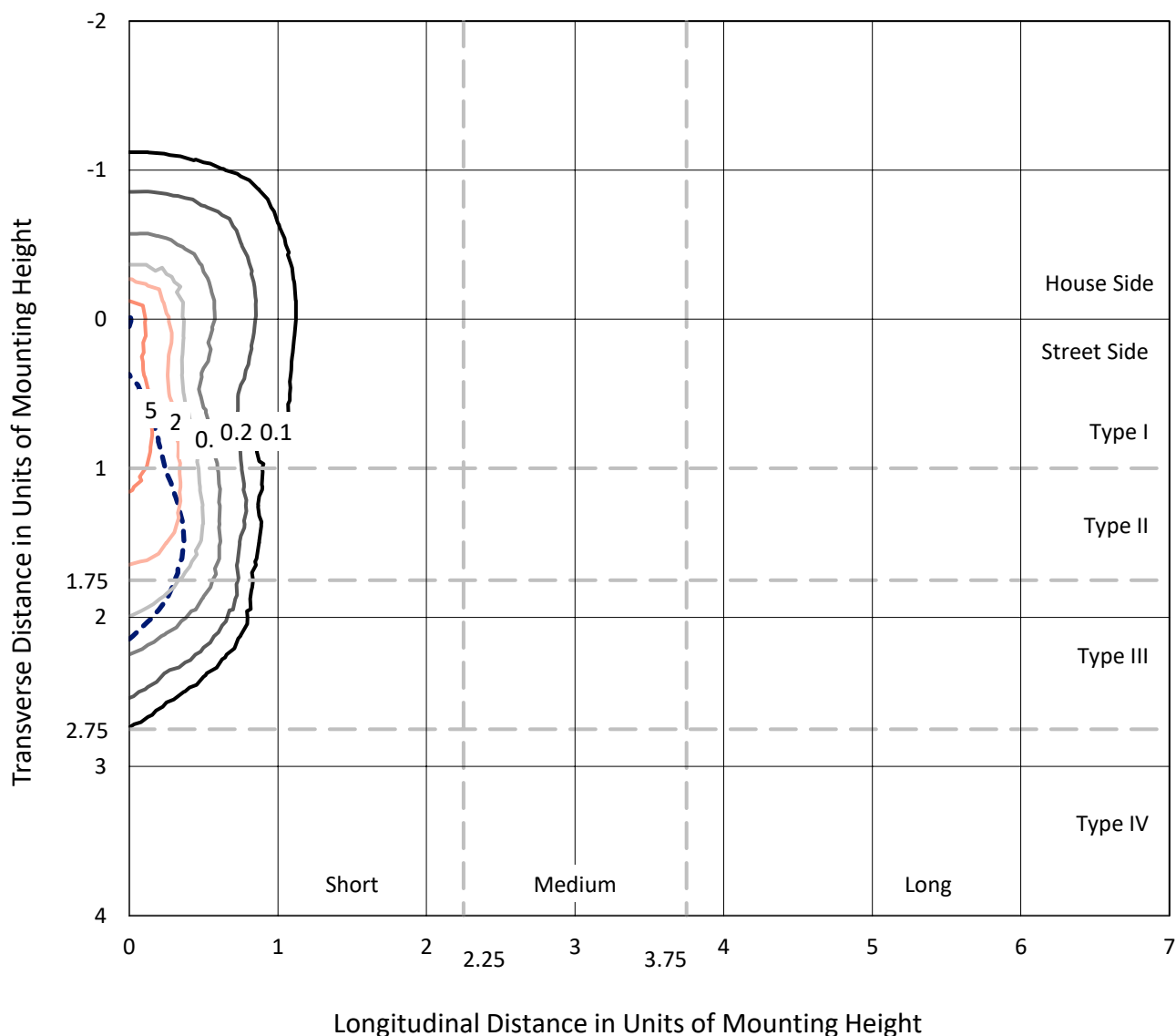
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

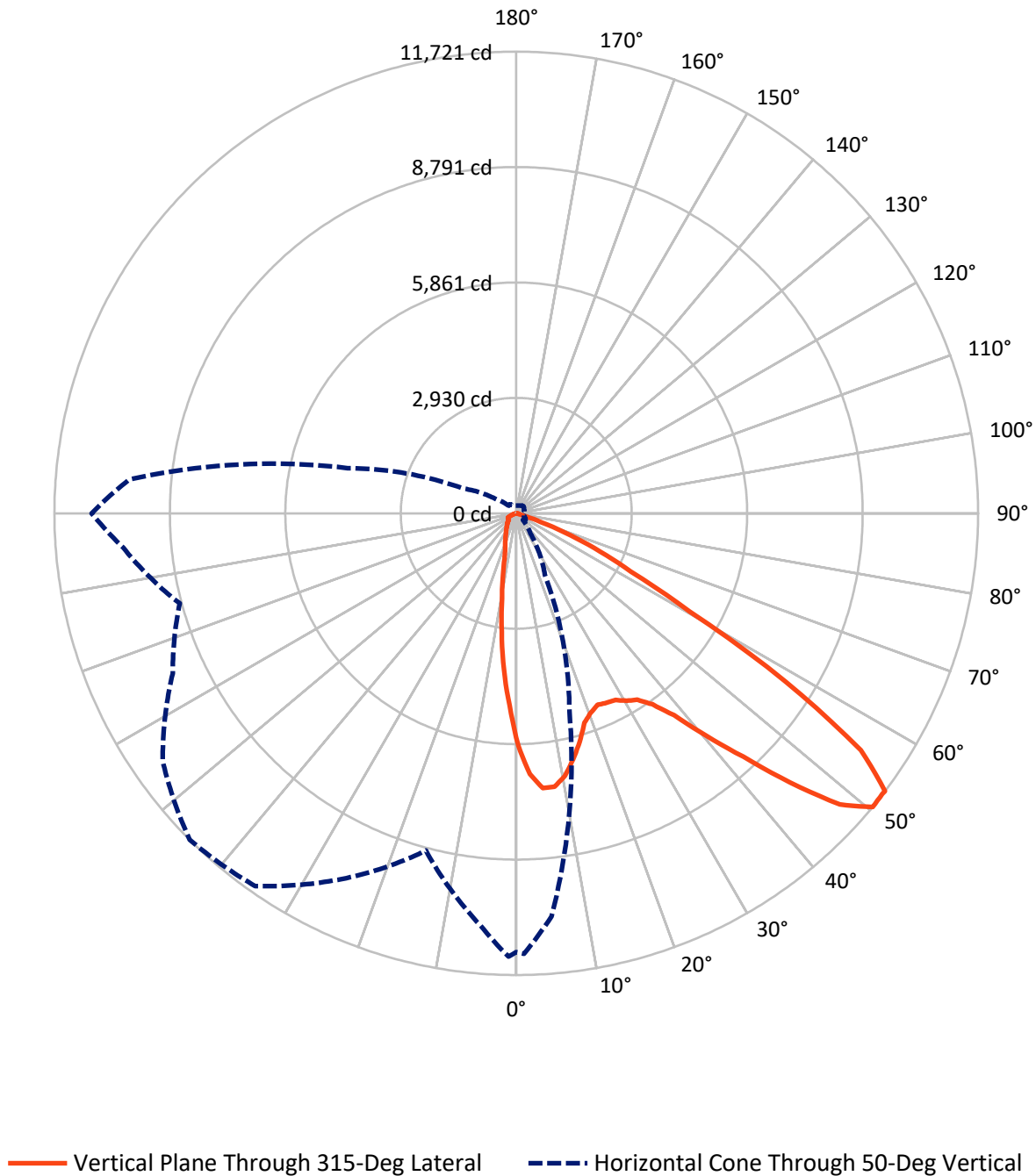


Based on 25 foot mounting height. Maximum calculated value = 9.4 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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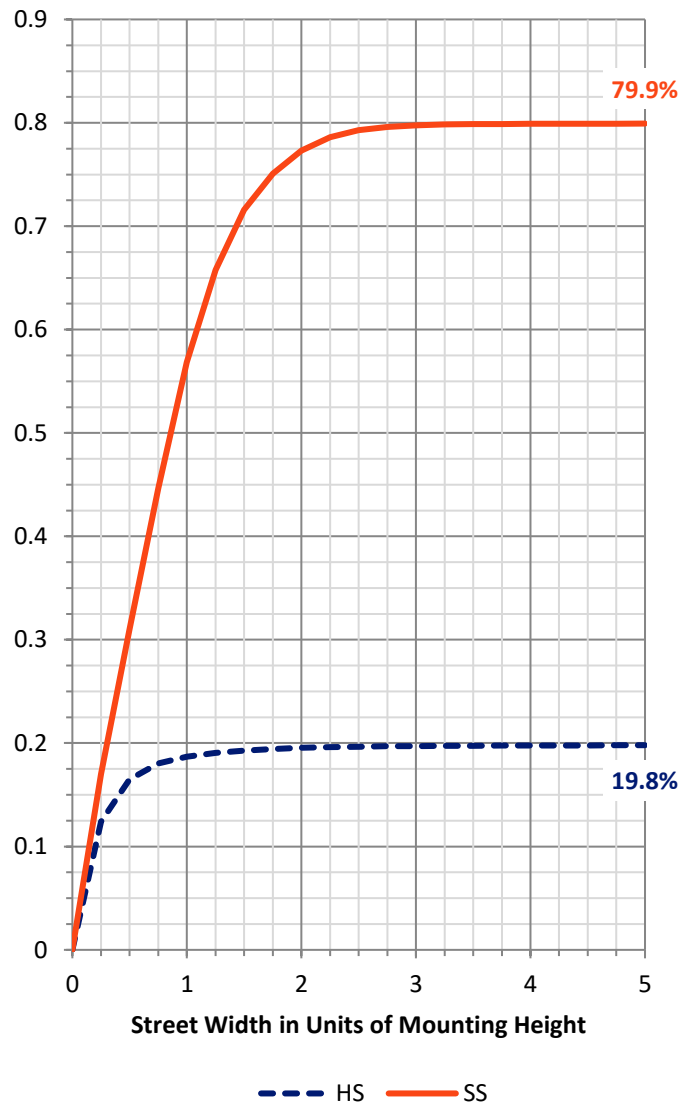
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2328.9	0.0	2328.9
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	9298.1	0.0	9298.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	11627.0	0.0	11627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.8	3.7
10°-20°	854.2	7.3
20°-30°	1283.2	11.0
30°-40°	1926.1	16.6
40°-50°	2707.0	23.3
50°-60°	2920.0	25.1
60°-70°	1355.7	11.7
70°-80°	127.6	1.1
80°-90°	23.5	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°	11627.0	100.0
0°-180°	11627.0	100.0

Coefficient of Utilization



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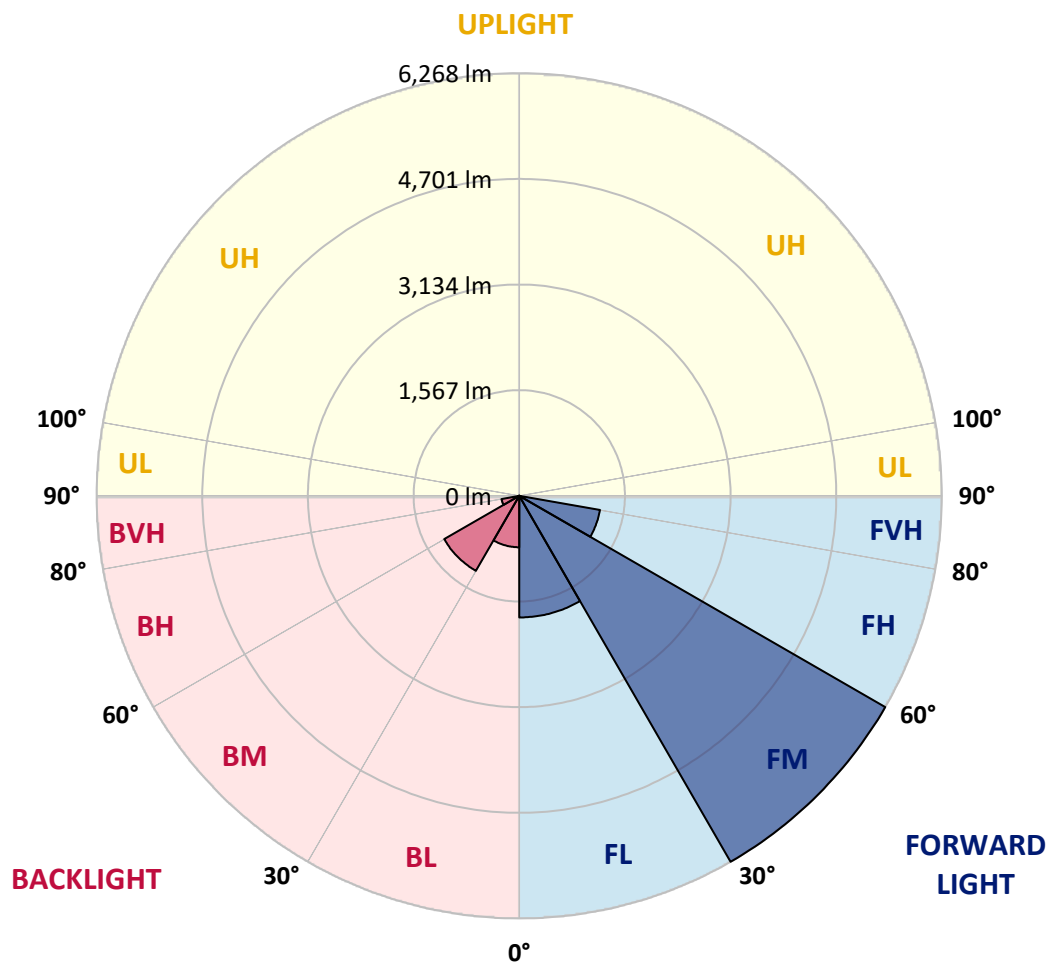
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1803.8	15.5			
FM	(30°-60°)	6267.8	53.9			
FH	(60°-80°)	1215.9	10.5			G1/1800
FVH	(80°-90°)	10.6	0.1			G1/100
BL	(0°-30°)	763.3	6.6	B2/1000		
BM	(30°-60°)	1285.2	11.1	B2/2500		
BH	(60°-80°)	267.4	2.3	B1/500		G1/500
BVH	(80°-90°)	12.9	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°	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4
2.5°	6129.3	6034.8	5914.8	5815.6	5668.0	5370.4	5289.6	5192.8	5112.0	5003.6	4851.3
5°	5573.4	5543.4	5488.0	5114.3	4844.4	4484.6	4189.3	4064.7	3900.9	3767.1	3670.2
7.5°	5148.9	5029.0	4853.7	4477.6	4046.2	3661.0	3333.4	3142.0	2925.1	2851.3	2719.8
10°	4694.5	4722.2	4463.8	3935.5	3414.2	3102.7	2899.7	2715.2	2519.1	2389.9	2203.1
12.5°	4549.1	4459.2	4260.8	3607.9	3162.7	2872.1	2625.2	2396.8	2189.2	1981.6	1801.7
15°	4643.7	4505.3	4228.5	3538.7	2968.9	2606.8	2297.6	1988.5	1797.1	1531.8	1344.9
17.5°	4982.8	4872.1	4500.7	3612.6	2869.7	2353.0	1893.9	1575.6	1282.6	1042.7	948.1
20°	5548.0	5391.2	4925.2	3707.1	2722.1	2046.2	1536.4	1144.2	867.4	765.9	712.8
22.5°	6101.7	6016.3	5428.1	3889.4	2590.6	1774.0	1153.4	770.5	648.2	629.8	595.2
25°	7155.9	6899.8	6196.2	4219.3	2489.1	1517.9	869.7	620.5	549.0	535.2	539.8
27.5°	7783.4	7568.8	6906.8	4438.4	2376.1	1321.8	735.9	569.8	521.4	491.4	479.8
30°	8385.5	8136.3	7259.7	4567.6	2133.9	1114.2	652.8	546.7	535.2	491.4	477.5
32.5°	8849.1	8604.6	7769.5	4761.4	2034.7	980.4	537.5	426.8	396.8	392.2	433.7
35°	9559.7	9299.0	8205.5	4867.5	1958.5	911.2	466.0	380.6	346.0	332.2	334.5
37.5°	10221.7	10044.1	8609.2	4909.0	1877.8	890.5	417.5	341.4	311.4	302.2	299.9
40°	10775.4	10378.6	8992.2	4952.8	1843.2	851.2	387.6	311.4	290.7	276.8	276.8
42.5°	11029.1	10625.4	9421.2	4927.5	1834.0	788.9	387.6	286.1	269.9	256.1	253.8
45°	10973.8	10810.0	9612.7	4915.9	1834.0	726.7	353.0	279.1	256.1	237.6	233.0
47.5°	11116.8	10902.3	9852.6	4964.4	1797.1	682.8	297.6	293.0	242.2	219.2	214.5
50°	11142.2	11183.7	10270.2	5215.8	1716.3	627.5	233.0	288.4	233.0	198.4	193.8
52°	11308.3	11049.9	10397.1	5349.6	1631.0	585.9	196.1	246.8	223.8	184.5	179.9
52.5°	11079.9	11248.3	10427.0	5398.1	1640.2	558.3	189.2	242.2	219.2	184.5	173.0
55°	10823.8	10985.3	10304.8	5501.9	1504.1	438.3	147.6	175.3	198.4	161.5	154.6
57.5°	9407.4	9571.2	8955.3	5038.2	1224.9	309.1	122.3	131.5	175.3	149.9	143.0
60°	8362.4	8244.7	7515.8	4203.1	869.7	173.0	96.9	101.5	191.5	138.4	136.1
62.5°	7642.7	7391.2	6281.6	3245.8	530.6	115.3	76.1	78.4	147.6	129.2	129.2
65°	5654.1	5372.7	4173.1	1963.1	260.7	80.7	57.7	62.3	92.3	110.7	110.7
67.5°	3227.3	3118.9	2016.2	885.8	108.4	50.8	43.8	48.4	71.5	90.0	85.4
70°	1483.3	1331.1	775.1	186.9	50.8	34.6	34.6	39.2	57.7	66.9	62.3
72.5°	433.7	410.6	189.2	30.0	20.8	20.8	23.1	30.0	43.8	50.8	46.1
75°	32.3	20.8	13.8	9.2	9.2	13.8	18.5	30.0	43.8	48.4	39.2
77.5°	2.3	4.6	2.3	2.3	6.9	13.8	20.8	36.9	57.7	60.0	43.8
80°	2.3	2.3	0.0	2.3	6.9	13.8	23.1	41.5	64.6	69.2	36.9
82.5°	0.0	0.0	0.0	2.3	9.2	18.5	27.7	43.8	60.0	73.8	39.2
85°	0.0	0.0	0.0	2.3	13.8	25.4	32.3	11.5	6.9	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°	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4
2.5°	4959.8	4899.8	4876.7	4897.5	4890.6	4883.6	5010.5	4982.8	4978.2	5019.7	5010.5
5°	3723.3	3617.2	3907.8	3790.2	3912.4	3986.3	4000.1	4007.0	4092.4	4002.4	4120.1
7.5°	2652.9	2680.6	2678.3	2756.7	2897.4	3022.0	3095.8	3038.1	3033.5	3022.0	2971.2
10°	2120.0	2071.6	2062.3	2043.9	2087.7	2193.8	2283.8	2212.3	2161.5	2230.7	2210.0
12.5°	1732.5	1665.6	1628.6	1554.8	1557.1	1628.6	1628.6	1628.6	1679.4	1718.6	1748.6
15°	1328.8	1273.4	1273.4	1199.6	1183.4	1185.7	1222.6	1227.3	1308.0	1331.1	1342.6
17.5°	929.7	899.7	934.3	964.3	945.8	950.4	964.3	968.9	980.4	971.2	994.3
20°	715.1	710.5	719.7	772.8	812.0	835.1	818.9	795.9	782.0	749.7	749.7
22.5°	606.7	615.9	632.1	675.9	726.7	740.5	722.0	669.0	627.5	622.9	625.2
25°	539.8	549.0	574.4	602.1	629.8	652.8	634.4	595.2	572.1	551.3	551.3
27.5°	498.3	502.9	516.7	537.5	560.6	579.0	572.1	551.3	526.0	516.7	496.0
30°	466.0	472.9	489.1	493.7	514.4	523.7	512.1	507.5	491.4	479.8	472.9
32.5°	449.8	447.5	459.1	463.7	466.0	472.9	459.1	466.0	463.7	445.2	438.3
35°	339.1	357.6	387.6	412.9	419.8	429.1	426.8	417.5	392.2	371.4	346.0
37.5°	304.5	316.0	332.2	353.0	380.6	392.2	387.6	364.5	334.5	320.7	316.0
40°	281.4	288.4	302.2	316.0	343.7	364.5	348.3	327.6	304.5	293.0	286.1
42.5°	260.7	263.0	269.9	283.7	304.5	336.8	309.1	281.4	272.2	265.3	260.7
45°	237.6	237.6	246.8	253.8	276.8	306.8	279.1	253.8	249.1	244.5	242.2
47.5°	219.2	221.5	226.1	235.3	253.8	274.5	256.1	235.3	223.8	221.5	216.8
50°	196.1	198.4	207.6	216.8	239.9	251.4	239.9	216.8	205.3	198.4	198.4
52°	177.6	184.5	193.8	212.2	228.4	246.8	233.0	207.6	193.8	186.9	182.2
52.5°	175.3	179.9	189.2	209.9	228.4	244.5	230.7	205.3	189.2	184.5	179.9
55°	156.9	163.8	179.9	205.3	226.1	244.5	226.1	203.0	179.9	168.4	163.8
57.5°	149.9	154.6	175.3	207.6	223.8	244.5	226.1	203.0	179.9	159.2	154.6
60°	143.0	152.3	175.3	200.7	221.5	246.8	228.4	200.7	175.3	149.9	149.9
62.5°	136.1	143.0	173.0	196.1	212.2	237.6	219.2	196.1	168.4	143.0	140.7
65°	117.7	129.2	152.3	163.8	182.2	205.3	186.9	170.7	147.6	126.9	124.6
67.5°	90.0	94.6	113.0	126.9	138.4	159.2	149.9	129.2	113.0	96.9	96.9
70°	62.3	66.9	80.7	87.7	99.2	110.7	103.8	87.7	76.1	66.9	64.6
72.5°	43.8	46.1	50.8	55.4	60.0	64.6	62.3	50.8	43.8	41.5	39.2
75°	34.6	39.2	41.5	39.2	36.9	34.6	34.6	30.0	25.4	23.1	23.1
77.5°	34.6	36.9	34.6	30.0	25.4	23.1	20.8	18.5	13.8	11.5	13.8
80°	30.0	30.0	30.0	25.4	23.1	20.8	18.5	16.1	13.8	11.5	11.5
82.5°	32.3	32.3	30.0	25.4	25.4	20.8	20.8	18.5	16.1	11.5	11.5
85°	0.0	0.0	0.0	4.6	11.5	20.8	20.8	18.5	16.1	13.8	13.8
87.5°	0.0	0.0	0.0	0.0	2.3	4.6	9.2	11.5	13.8	13.8	13.8
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°	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4
2.5°	5093.6	5181.2	5347.3	5513.4	5614.9	5734.9	5951.7	6067.1	6217.0	6290.8	6436.2
5°	4103.9	4311.5	4385.4	4574.5	4777.5	4980.5	5303.5	5658.7	5954.0	6157.0	6420.0
7.5°	2994.3	3042.8	3328.8	3455.7	3787.9	4157.0	4597.6	5045.1	5418.8	5751.0	5951.7
10°	2244.6	2422.2	2602.1	2844.4	3112.0	3492.6	3914.8	4408.4	4892.9	5225.1	5478.8
12.5°	1804.0	1944.7	2184.6	2445.3	2775.2	3026.6	3451.1	3940.1	4567.6	4892.9	5227.4
15°	1365.7	1545.6	1817.8	2087.7	2436.1	2701.3	3130.4	3746.4	4553.8	5001.3	5289.6
17.5°	1012.7	1135.0	1379.5	1681.7	2037.0	2410.7	2989.7	3725.6	4708.3	5241.2	5538.8
20°	775.1	816.6	971.2	1241.1	1626.3	2115.4	2761.3	3815.6	5165.1	5824.8	6127.0
22.5°	627.5	645.9	705.9	892.8	1266.5	1857.0	2652.9	3877.8	5679.5	6523.8	6927.5
25°	546.7	542.1	581.3	662.1	989.6	1614.8	2514.5	4113.1	6309.3	7345.1	7707.2
27.5°	498.3	498.3	516.7	574.4	821.2	1457.9	2426.8	4281.5	6943.7	8067.1	8263.2
30°	472.9	477.5	530.6	549.0	682.8	1271.1	2281.5	4452.3	7550.4	8528.5	8798.4
32.5°	438.3	419.8	408.3	454.5	574.4	1102.7	2136.2	4523.8	8041.7	9093.7	9324.4
35°	336.8	327.6	341.4	376.0	493.7	959.7	1974.7	4604.5	8606.9	9748.8	9795.0
37.5°	304.5	302.2	311.4	341.4	415.2	835.1	1859.3	4583.7	9038.3	10290.9	10166.4
40°	281.4	281.4	288.4	313.7	371.4	747.4	1739.4	4565.3	9455.9	10900.0	10535.5
42.5°	263.0	263.0	274.5	290.7	353.0	689.8	1649.4	4539.9	9806.5	11273.7	10752.3
45°	237.6	244.5	263.0	279.1	357.6	650.5	1582.5	4443.0	9926.5	11269.1	10648.5
47.5°	219.2	228.4	246.8	269.9	323.0	639.0	1536.4	4357.7	9884.9	10992.2	10323.2
50°	198.4	209.9	235.3	274.5	274.5	615.9	1487.9	4433.8	9854.9	10777.7	10011.8
52°	184.5	193.8	226.1	267.6	239.9	567.5	1457.9	4581.4	9977.2	10750.0	9873.4
52.5°	182.2	189.2	219.2	263.0	228.4	558.3	1437.2	4616.0	10016.4	10680.8	9968.0
55°	161.5	170.7	200.7	205.3	186.9	459.1	1370.3	4694.5	9822.6	10544.7	9878.0
57.5°	152.3	156.9	177.6	168.4	161.5	346.0	1178.8	4572.2	8724.6	9365.9	9190.6
60°	140.7	145.3	166.1	131.5	136.1	242.2	885.8	3970.1	7006.0	7804.1	8120.2
62.5°	136.1	133.8	156.9	106.1	115.3	175.3	625.2	3227.3	5398.1	6424.6	6971.4
65°	120.0	117.7	113.0	90.0	99.2	136.1	373.7	2106.2	3804.0	4860.6	5160.5
67.5°	92.3	96.9	83.0	71.5	83.0	106.1	207.6	943.5	1995.4	2915.9	3158.1
70°	64.6	69.2	66.9	62.3	73.8	87.7	120.0	323.0	825.9	1531.8	1688.6
72.5°	39.2	48.4	50.8	53.1	64.6	76.1	85.4	103.8	219.2	542.1	673.6
75°	23.1	32.3	39.2	46.1	53.1	64.6	71.5	73.8	76.1	101.5	163.8
77.5°	16.1	23.1	34.6	43.8	53.1	64.6	76.1	80.7	76.1	71.5	76.1
80°	13.8	23.1	32.3	41.5	55.4	66.9	76.1	76.1	73.8	64.6	69.2
82.5°	13.8	23.1	34.6	43.8	53.1	64.6	73.8	76.1	69.2	64.6	66.9
85°	16.1	25.4	36.9	46.1	57.7	53.1	48.4	39.2	36.9	30.0	32.3
87.5°	16.1	23.1	23.1	25.4	27.7	27.7	27.7	25.4	20.8	18.5	18.5
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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CATALOG NUMBER: GALN-SA3D-730-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4	5896.4
2.5°	6443.1	6627.6	6620.7	6625.3	6597.6	6410.8	6320.8	6092.4	6157.0	6129.3
5°	6689.9	6872.2	7029.0	7010.6	6798.3	6544.6	6168.6	5813.3	5716.4	5573.4
7.5°	6443.1	6881.4	7026.7	7006.0	6692.2	6367.0	5767.2	5411.9	5243.5	5148.9
10°	6050.9	6558.4	6738.4	6775.3	6563.0	6069.4	5518.0	4948.2	4858.3	4694.5
12.5°	5827.1	6196.2	6307.0	6406.2	6332.4	5963.3	5328.9	4782.1	4657.6	4549.1
15°	5644.9	5864.1	5910.2	6023.2	6067.1	5868.7	5428.1	4962.1	4655.3	4643.7
17.5°	5813.3	5723.3	5554.9	5589.5	5728.0	5871.0	5684.1	5317.3	5019.7	4982.8
20°	6092.4	5695.7	5315.0	5400.4	5515.7	5954.0	6071.7	5813.3	5642.6	5548.0
22.5°	6413.1	5744.1	5238.9	5280.4	5499.6	6140.9	6699.1	6556.1	6237.8	6101.7
25°	7006.0	5877.9	5298.9	5326.6	5626.5	6401.6	7266.6	7372.8	7183.6	7155.9
27.5°	7585.0	6223.9	5430.4	5368.1	5691.0	6655.3	7610.4	8180.2	7848.0	7783.4
30°	7880.3	6505.4	5626.5	5520.3	5958.6	6809.9	7818.0	8706.1	8415.5	8385.5
32.5°	8332.4	6761.4	5778.7	5642.6	6108.6	7001.3	8205.5	9280.5	8999.1	8849.1
35°	8521.6	7040.6	6113.2	5954.0	6537.7	7268.9	8403.9	9792.7	9705.0	9559.7
37.5°	8886.1	7340.5	6507.7	6498.4	7056.7	7617.3	8761.5	10489.3	10473.2	10221.7
40°	8916.0	7668.0	7130.5	7421.2	7859.5	8224.0	9075.2	10683.1	10946.1	10775.4
42.5°	8962.2	8242.4	8207.8	8447.8	8823.8	8745.3	9086.8	10729.2	11130.6	11029.1
45°	8982.9	8816.8	9303.6	9746.5	9903.4	9428.2	8978.3	10641.6	11227.5	10973.8
47.5°	8816.8	9310.5	10189.4	11045.3	11091.4	9848.0	8932.2	10551.6	11285.2	11116.8
50°	8839.9	9619.6	10955.3	11721.2	11552.8	10219.4	8860.7	10496.2	11255.2	11142.2
52°	8784.6	9626.6	11063.7	11707.4	11589.7	10014.1	8738.4	10284.0	11227.5	11308.3
52.5°	8846.8	9585.0	10950.7	11716.6	11564.3	10115.6	8722.3	10401.7	11243.7	11079.9
55°	8632.3	9091.4	10288.6	10613.9	10590.8	9181.3	8226.3	10011.8	10821.5	10823.8
57.5°	7801.8	7880.3	8069.4	8062.5	7956.4	7218.2	7035.9	9206.7	9647.3	9407.4
60°	6874.5	5769.5	5259.7	5052.0	4934.4	4814.4	6223.9	8422.4	8463.9	8362.4
62.5°	5940.2	4000.1	3321.9	3264.2	3291.9	3730.2	6016.3	8110.9	7861.8	7642.7
65°	4793.7	2915.9	2413.0	2336.9	2606.8	3079.7	4869.8	6219.3	5836.4	5654.1
67.5°	3010.5	2126.9	1631.0	1487.9	1813.2	2120.0	3199.6	3907.8	3478.8	3227.3
70°	1785.5	1188.0	738.2	662.1	745.1	1130.4	1792.4	1949.3	1612.5	1483.3
72.5°	703.6	436.0	205.3	175.3	182.2	396.8	659.8	643.6	486.7	433.7
75°	189.2	131.5	71.5	57.7	48.4	73.8	106.1	69.2	25.4	32.3
77.5°	87.7	78.4	62.3	48.4	36.9	27.7	13.8	4.6	4.6	2.3
80°	76.1	66.9	57.7	48.4	36.9	23.1	11.5	2.3	2.3	2.3
82.5°	71.5	62.3	53.1	43.8	34.6	23.1	11.5	2.3	0.0	0.0
85°	30.0	39.2	43.8	41.5	36.9	23.1	11.5	2.3	0.0	0.0
87.5°	16.1	13.8	11.5	9.2	6.9	4.6	4.6	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

(END OF REPORT)