

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: P455569

Luminaire Tested: **GALN-SA6D-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455569
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-SA6D-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 30003 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

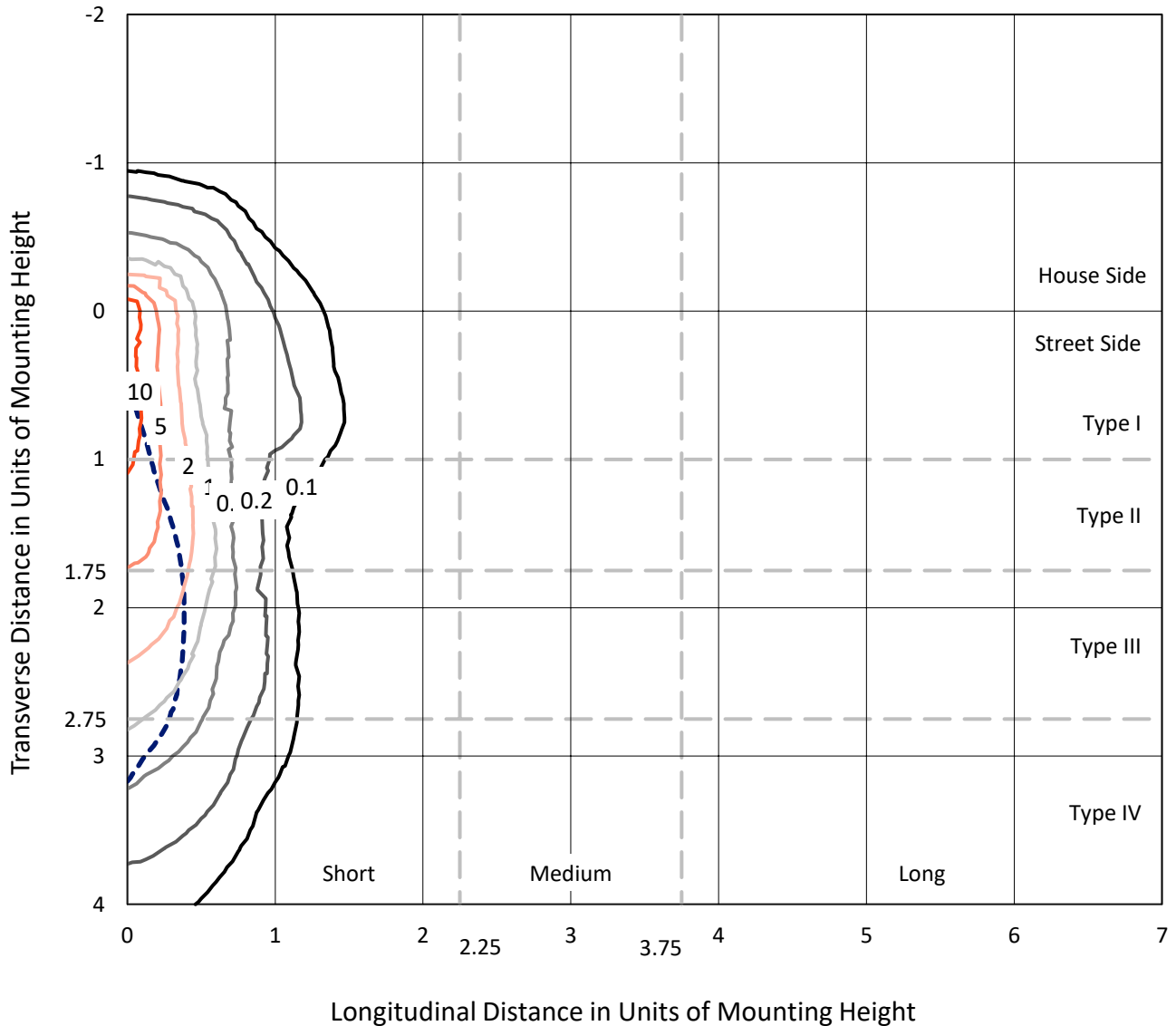
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

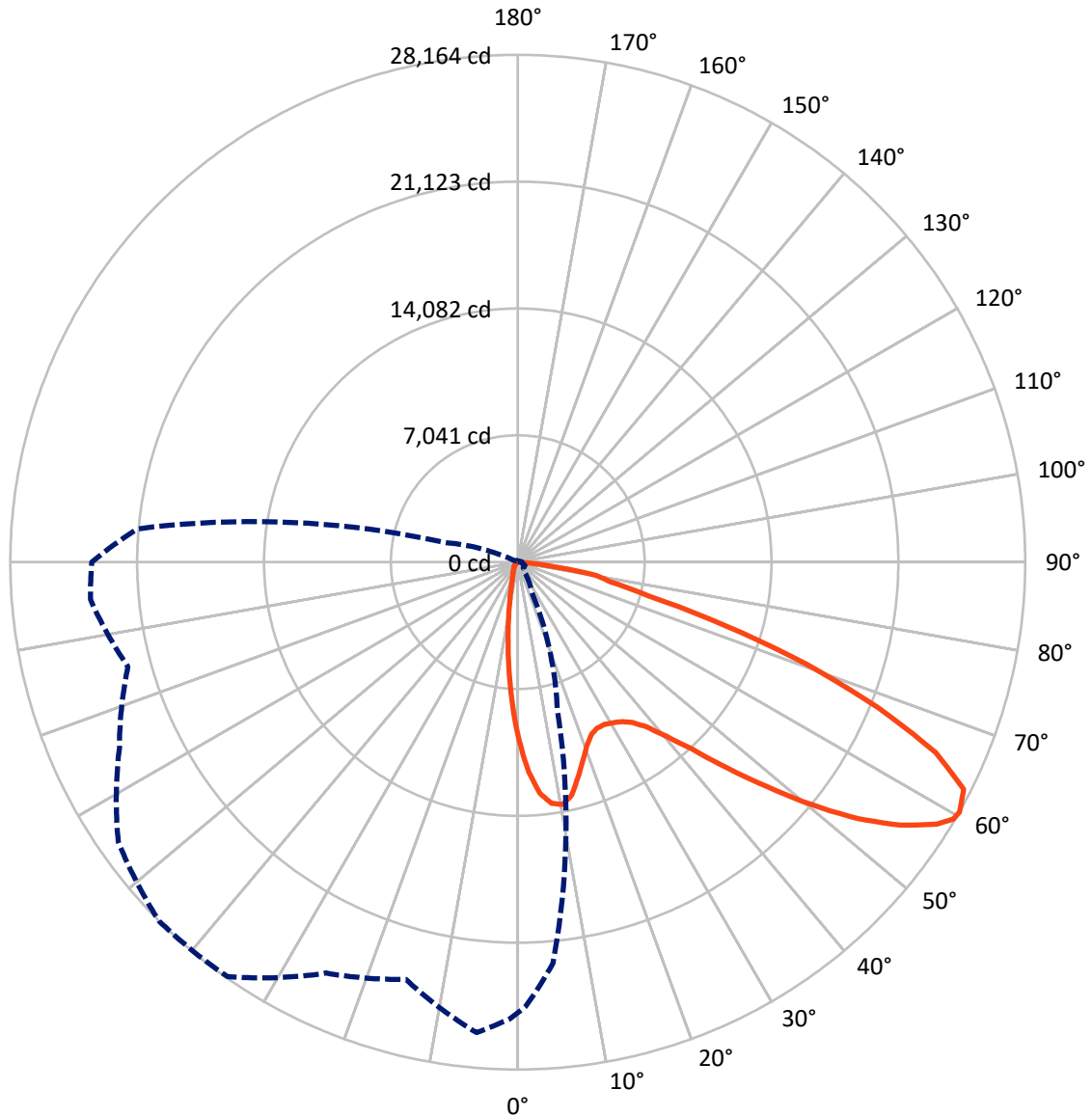
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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	3700.6	0.0	3700.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	26302.4	0.0	26302.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	30003.0	0.0	30003.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.6	2.5
10°-20°	1464.8	4.9
20°-30°	2147.8	7.2
30°-40°	3194.1	10.6
40°-50°	4648.4	15.5
50°-60°	6703.4	22.3
60°-70°	7373.0	24.6
70°-80°	3302.5	11.0
80°-90°	431.5	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°	30003.0	100.0
0°-180°	30003.0	100.0



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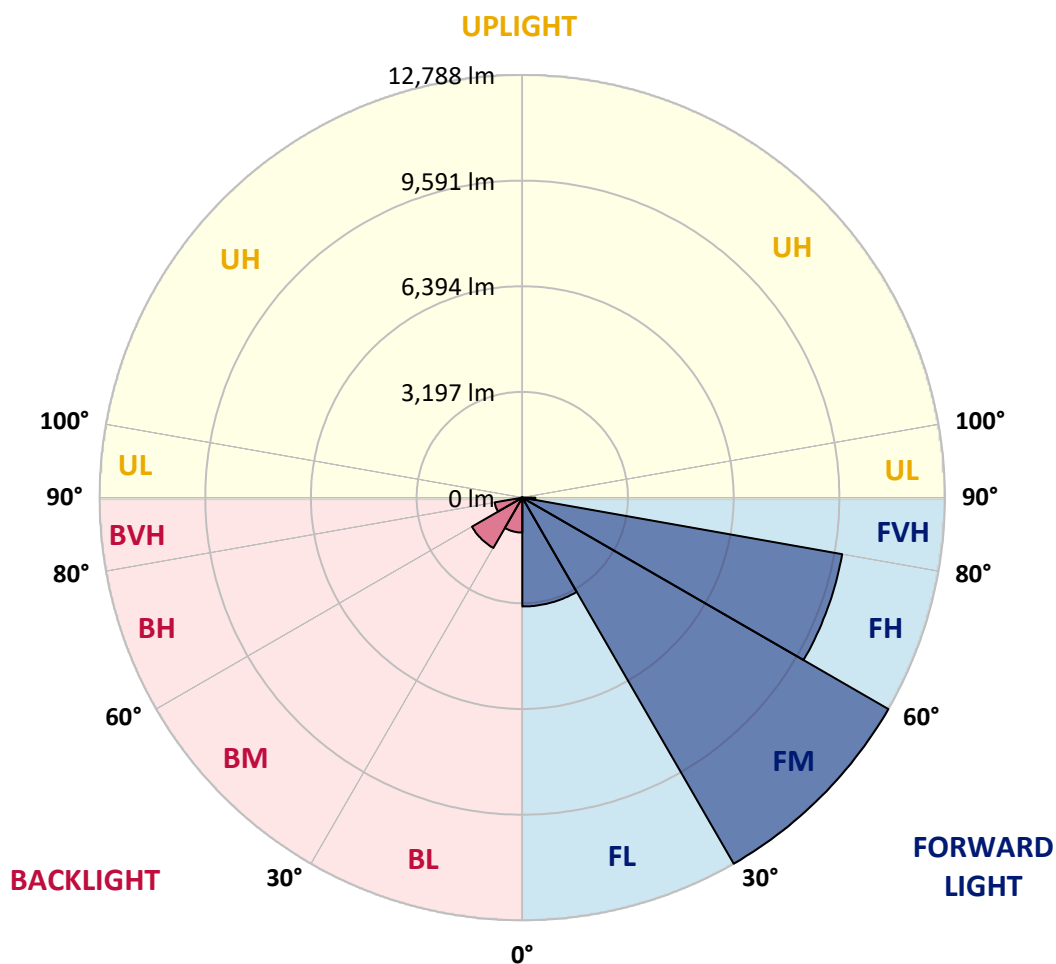
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3292.7	11.0			
FM	(30°-60°)	12788.2	42.6			
FH	(60°-80°)	9826.9	32.8			G4/12000
FVH	(80°-90°)	394.6	1.3			G3/500
BL	(0°-30°)	1057.4	3.5	B3/2500		
BM	(30°-60°)	1757.7	5.9	B2/2500		
BH	(60°-80°)	848.6	2.8	B2/1000		G2/1000
BVH	(80°-90°)	36.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4
2.5°	10901.7	10853.8	10744.3	10411.3	10121.7	9743.1	9359.9	9058.9	8874.1	8534.3	8379.2
5°	10561.9	10584.7	10267.6	9583.4	8821.7	8301.7	7733.8	7282.2	6785.0	6470.3	6139.6
7.5°	9674.7	9629.1	9284.7	8331.3	7405.4	6652.8	5934.3	5350.5	4983.3	4689.1	4442.8
10°	8915.2	8881.0	8440.8	7213.8	6219.4	5656.1	5170.3	4659.4	4264.9	3833.8	3489.4
12.5°	8438.5	8361.0	7854.7	6572.9	5763.3	5238.7	4709.6	4178.2	3633.1	3197.5	2780.2
15°	8278.9	8167.1	7603.8	6351.7	5471.4	4805.4	4141.7	3530.5	2903.3	2422.1	2107.4
17.5°	8568.5	8383.8	7784.0	6312.9	5122.4	4239.8	3423.3	2627.3	1975.1	1607.9	1414.0
20°	9232.2	9020.1	8240.1	6274.2	4734.7	3605.8	2602.3	1856.5	1366.1	1165.4	1058.2
22.5°	10217.5	9925.5	8915.2	6335.7	4376.6	2987.7	1879.3	1311.4	1085.6	960.2	884.9
25°	11401.1	11157.1	9770.5	6554.7	4093.8	2501.9	1452.8	1071.9	914.6	837.0	780.0
27.5°	12698.9	12308.9	10876.6	6817.0	3836.1	2125.6	1274.9	957.9	814.2	743.5	713.9
30°	13622.5	13319.2	11802.5	6999.4	3514.5	1842.8	1165.4	944.2	816.5	732.1	677.4
32.5°	14534.8	14147.1	12578.0	7083.8	3279.6	1646.7	1008.1	823.3	716.1	672.8	618.1
35°	15510.9	15105.0	13351.1	7038.2	3104.0	1516.7	914.6	734.4	613.5	540.5	485.8
37.5°	16498.5	16069.7	14119.7	6874.0	2994.5	1464.2	841.6	697.9	579.3	504.0	444.7
40°	17670.8	17098.3	14840.4	6739.4	2880.5	1436.8	793.7	675.1	554.2	474.4	415.1
42.5°	18628.6	18083.6	15522.3	6668.7	2803.0	1373.0	793.7	656.8	538.2	449.3	387.7
45°	19536.4	18970.7	16259.0	6725.7	2771.0	1293.1	802.8	654.6	526.8	431.0	369.5
47.5°	20295.8	19805.5	17016.2	6940.1	2730.0	1206.5	754.9	686.5	520.0	415.1	351.2
50°	21192.1	20717.7	18017.4	7373.5	2657.0	1119.8	695.6	738.9	517.7	401.4	335.3
52.5°	22455.6	21942.5	19399.5	7866.1	2540.7	987.5	640.9	732.1	508.6	378.6	319.3
55°	23999.7	23584.6	21000.6	8456.8	2381.0	839.3	554.2	650.0	481.2	339.8	291.9
57.5°	24989.5	24636.0	22200.2	8712.2	2137.0	686.5	488.1	545.1	440.2	303.3	260.0
59°	25105.8	24786.5	22451.1	8627.8	1977.4	627.2	456.1	467.5	428.8	282.8	241.8
60°	25007.7	24677.0	22350.7	8463.6	1829.1	586.1	428.8	415.1	431.0	271.4	228.1
62.5°	24378.2	23812.6	21376.9	7631.2	1598.8	538.2	380.9	339.8	380.9	244.0	203.0
65°	23162.6	22314.2	19449.7	6458.9	1507.5	510.9	323.9	285.1	289.6	214.4	175.6
67.5°	21039.3	19969.7	16883.9	5247.9	1468.8	513.2	273.7	255.4	223.5	182.5	155.1
70°	17682.2	16614.8	13547.3	4317.3	1450.5	513.2	232.6	218.9	187.0	152.8	134.6
72.5°	12530.1	11380.6	9138.7	3391.4	1306.8	510.9	198.4	198.4	152.8	127.7	109.5
75°	7079.2	7088.4	5745.0	2399.3	1085.6	421.9	159.6	157.4	111.8	98.1	82.1
77.5°	4125.8	4052.8	3872.6	1030.9	504.0	191.6	111.8	95.8	77.5	70.7	59.3
80°	2121.0	1744.7	1699.1	374.0	180.2	120.9	77.5	54.7	50.2	45.6	41.1
82.5°	627.2	629.5	561.0	150.5	100.4	79.8	38.8	29.6	27.4	25.1	25.1
85°	43.3	27.4	31.9	45.6	61.6	31.9	2.3	6.8	6.8	9.1	11.4
87.5°	4.6	2.3	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°	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4
2.5°	8208.2	8308.5	8121.5	8126.1	7971.0	8021.2	7838.7	7898.0	7790.8	7872.9	8114.7
5°	6176.1	6198.9	6048.4	6000.5	6023.3	6116.8	6153.3	5986.8	6057.5	5918.4	5909.3
7.5°	4351.5	4378.9	4292.3	4280.8	4445.1	4406.3	4477.0	4305.9	4144.0	4214.7	4084.7
10°	3380.0	3265.9	3088.0	3037.9	3005.9	3026.5	3026.5	2871.4	2848.6	2787.0	2880.5
12.5°	2668.4	2529.3	2360.5	2132.4	2075.4	2070.9	1986.5	1849.6	1806.3	1753.8	1831.4
15°	1938.6	1881.6	1740.2	1612.4	1482.4	1457.4	1320.5	1208.8	1060.5	1040.0	1033.2
17.5°	1363.8	1279.5	1277.2	1204.2	1128.9	1078.8	951.0	823.3	766.3	759.5	759.5
20°	1021.7	992.1	944.2	935.1	912.3	855.3	741.2	672.8	645.4	647.7	656.8
22.5°	859.8	839.3	796.0	775.4	766.3	716.1	631.7	586.1	572.5	572.5	574.7
25°	768.6	750.3	702.5	670.5	659.1	622.6	556.5	522.3	510.9	510.9	510.9
27.5°	700.2	677.4	627.2	599.8	579.3	538.2	497.2	463.0	451.6	451.6	453.9
30°	652.3	627.2	581.6	545.1	513.2	476.7	442.5	412.8	399.1	396.8	399.1
32.5°	588.4	565.6	520.0	497.2	460.7	417.4	390.0	362.6	348.9	351.2	348.9
35°	458.4	451.6	419.6	426.5	406.0	369.5	344.4	314.7	298.8	296.5	301.1
37.5°	417.4	390.0	353.5	355.8	348.9	335.3	294.2	262.3	250.9	250.9	253.2
40°	385.4	358.1	317.0	296.5	298.8	298.8	255.4	221.2	209.8	207.5	212.1
42.5°	358.1	330.7	285.1	250.9	241.8	253.2	216.7	182.5	171.1	166.5	171.1
45°	339.8	310.2	257.7	218.9	191.6	205.3	177.9	150.5	136.8	136.8	134.6
47.5°	321.6	294.2	237.2	189.3	159.6	152.8	146.0	120.9	107.2	104.9	107.2
50°	305.6	278.2	214.4	164.2	134.6	118.6	118.6	95.8	86.7	82.1	84.4
52.5°	289.6	260.0	193.9	146.0	116.3	95.8	84.4	77.5	70.7	68.4	70.7
55°	266.8	237.2	173.3	125.4	100.4	79.8	66.1	63.9	59.3	54.7	59.3
57.5°	239.5	212.1	152.8	107.2	79.8	61.6	54.7	52.5	47.9	45.6	45.6
59°	223.5	198.4	141.4	93.5	70.7	54.7	50.2	47.9	43.3	38.8	41.1
60°	214.4	193.9	134.6	86.7	63.9	50.2	45.6	43.3	38.8	36.5	38.8
62.5°	189.3	173.3	118.6	70.7	50.2	36.5	31.9	34.2	31.9	29.6	31.9
65°	166.5	152.8	100.4	54.7	38.8	25.1	22.8	29.6	27.4	25.1	27.4
67.5°	148.2	132.3	84.4	41.1	27.4	13.7	16.0	25.1	25.1	22.8	25.1
70°	127.7	114.0	68.4	29.6	13.7	6.8	11.4	18.2	22.8	20.5	22.8
72.5°	104.9	88.9	52.5	20.5	6.8	0.0	6.8	16.0	22.8	20.5	22.8
75°	82.1	66.1	38.8	11.4	0.0	0.0	2.3	13.7	22.8	20.5	22.8
77.5°	59.3	47.9	22.8	2.3	0.0	0.0	2.3	13.7	22.8	20.5	22.8
80°	38.8	34.2	9.1	0.0	0.0	0.0	2.3	13.7	22.8	22.8	25.1
82.5°	25.1	18.2	0.0	0.0	0.0	0.0	4.6	18.2	25.1	27.4	27.4
85°	11.4	0.0	0.0	0.0	0.0	0.0	9.1	22.8	29.6	29.6	29.6
87.5°	0.0	0.0	0.0	0.0	0.0	4.6	16.0	27.4	34.2	34.2	34.2
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°	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4
2.5°	8155.7	8299.4	8502.4	8814.8	9068.0	9467.1	9772.7	10190.1	10612.0	10739.7	10938.2
5°	6002.8	6187.5	6648.2	7067.8	7332.4	8176.3	8709.9	9551.5	10306.4	10669.0	11063.6
7.5°	4169.1	4388.0	4739.3	5325.4	5881.9	6568.4	7430.5	8392.9	9499.1	10016.8	10573.3
10°	2926.1	3199.8	3694.7	4175.9	4876.1	5528.4	6379.1	7441.9	8662.0	9273.3	9971.2
12.5°	1847.4	2091.4	2745.9	3286.5	4160.0	4917.2	5701.7	6664.2	8078.2	8705.4	9437.5
15°	1056.0	1261.2	1566.8	2260.2	3229.5	4230.7	5209.1	6326.6	7779.4	8552.6	9344.0
17.5°	786.8	841.6	978.4	1370.7	2253.3	3423.3	4755.2	6224.0	7982.4	8890.1	9793.3
20°	661.4	697.9	761.7	916.8	1436.8	2636.5	4312.8	6242.2	8639.2	9779.6	10637.1
22.5°	593.0	615.8	668.2	768.6	980.7	1920.3	3795.1	6349.4	9435.2	10872.0	11861.8
25°	520.0	549.6	595.3	681.9	816.5	1331.9	3284.2	6588.9	10550.5	12258.7	13189.2
27.5°	463.0	490.3	536.0	615.8	716.1	1017.2	2688.9	6794.2	11727.3	13654.5	14416.2
30°	406.0	433.3	478.9	542.8	634.0	823.3	2048.1	6915.0	12869.9	14701.3	15287.4
32.5°	358.1	380.9	424.2	481.2	556.5	697.9	1614.7	6789.6	13743.4	15652.3	16044.6
35°	310.2	337.5	374.0	426.5	492.6	595.3	1343.3	6356.3	14493.8	16630.8	16772.2
37.5°	260.0	291.9	330.7	378.6	431.0	547.4	1078.8	5877.3	15296.6	17850.9	17618.3
40°	218.9	248.6	285.1	337.5	385.4	501.8	830.2	5366.5	16163.2	18995.8	18542.0
42.5°	177.9	209.8	253.2	301.1	380.9	437.9	643.2	4837.3	16940.9	19992.5	19376.7
45°	141.4	168.8	214.4	276.0	378.6	376.3	497.2	4315.1	17527.1	20704.1	19999.3
47.5°	111.8	134.6	180.2	269.1	348.9	319.3	399.1	3991.2	18142.9	21344.9	20476.0
50°	88.9	111.8	155.1	280.5	305.6	273.7	335.3	4043.7	18738.1	21671.1	20672.1
52.5°	75.3	98.1	134.6	221.2	234.9	239.5	294.2	4285.4	19506.7	22020.0	21062.1
55°	66.1	86.7	114.0	155.1	182.5	214.4	269.1	4461.0	20535.3	22768.1	21921.9
57.5°	52.5	75.3	102.6	132.3	150.5	187.0	248.6	4474.7	21465.8	23728.3	23064.6
59°	47.9	68.4	95.8	125.4	134.6	168.8	234.9	4358.4	21500.0	23871.9	23589.1
60°	43.3	66.1	91.2	116.3	127.7	159.6	223.5	4223.8	21189.8	23643.9	23805.8
62.5°	36.5	57.0	79.8	93.5	109.5	132.3	193.9	3735.8	19686.9	22610.7	23404.4
65°	31.9	50.2	68.4	77.5	91.2	114.0	171.1	2990.0	18026.5	21210.4	22254.9
67.5°	29.6	45.6	59.3	66.1	79.8	104.9	152.8	2111.9	15875.9	19433.7	20528.4
70°	27.4	43.3	52.5	61.6	70.7	88.9	130.0	1231.6	12229.0	16318.3	17474.6
72.5°	27.4	41.1	45.6	52.5	61.6	79.8	120.9	666.0	8361.0	12448.0	13941.8
75°	27.4	38.8	41.1	45.6	54.7	73.0	107.2	348.9	5405.2	8648.4	10673.6
77.5°	27.4	36.5	41.1	43.3	52.5	63.9	93.5	218.9	3601.2	6057.5	7213.8
80°	29.6	36.5	38.8	43.3	50.2	59.3	77.5	146.0	2116.5	3644.5	4390.3
82.5°	31.9	36.5	41.1	45.6	52.5	57.0	68.4	91.2	976.1	2410.7	2727.7
85°	34.2	38.8	43.3	47.9	54.7	57.0	63.9	66.1	159.6	1087.9	1471.0
87.5°	36.5	41.1	45.6	50.2	59.3	59.3	59.3	59.3	54.7	116.3	296.5
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-SA6D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4	9916.4
2.5°	11189.0	11446.8	11626.9	11672.5	11542.5	11483.3	11319.0	11063.6	10908.5	10901.7
5°	11791.1	12395.5	12815.2	12885.9	12635.0	12210.8	11706.8	11056.8	10675.9	10561.9
7.5°	11688.5	12746.8	13421.8	13519.9	13098.0	12288.3	11312.2	10265.4	9850.3	9674.7
10°	11266.6	12557.5	13522.2	13677.3	13113.9	11973.6	10732.9	9565.2	9049.8	8915.2
12.5°	10906.2	12210.8	13068.3	13282.7	12856.2	11718.2	10386.2	9115.9	8564.0	8438.5
15°	10748.9	11800.3	12324.8	12434.3	12363.6	11558.5	10349.8	9047.5	8415.7	8278.9
17.5°	10906.2	11451.3	11517.5	11629.2	11786.6	11542.5	10701.0	9419.2	8737.3	8568.5
20°	11319.0	11148.0	10874.3	10922.2	11282.6	11608.7	11325.9	10242.6	9412.4	9232.2
22.5°	12021.5	11072.7	10452.4	10411.3	10867.5	11829.9	12242.7	11357.8	10395.4	10217.5
25°	12883.6	11262.0	10297.3	10208.3	10705.5	12153.8	13239.4	12723.9	11672.5	11401.1
27.5°	13823.2	11654.3	10297.3	10210.6	10691.9	12441.1	14092.4	13932.7	12995.3	12698.9
30°	14338.7	11978.2	10445.5	10347.5	10860.6	12607.6	14548.5	15006.9	13989.7	13622.5
32.5°	14799.4	12427.5	10735.2	10550.5	11214.1	12853.9	14956.7	15919.2	14781.1	14534.8
35°	15223.6	12908.7	11134.3	10919.9	11679.4	13191.5	15408.3	16877.1	15882.7	15510.9
37.5°	15691.1	13467.4	11756.9	11574.5	12457.1	13848.3	15944.3	18136.0	16966.0	16498.5
40°	16199.7	14115.2	12781.0	12703.4	13693.2	14591.8	16621.6	19479.3	18202.2	17670.8
42.5°	16717.4	14860.9	14035.3	14163.1	15093.6	15634.1	17317.2	20512.5	19214.8	18628.6
45°	17187.2	15814.3	15666.0	16297.8	16726.5	16651.3	17832.7	21240.0	20097.4	19536.4
47.5°	17780.2	17203.2	17638.8	18612.7	18624.1	17757.4	18222.7	21835.3	20856.9	20295.8
50°	18443.9	18843.0	20186.3	21178.4	20911.6	18845.3	18678.8	22540.0	21641.4	21192.1
52.5°	19212.5	20679.0	22540.0	23641.6	23019.0	20031.3	19438.3	23301.8	22886.7	22455.6
55°	20106.5	21931.1	24886.8	25764.9	25137.7	21504.6	20592.3	24334.9	24293.9	23999.7
57.5°	21116.9	23253.9	26246.1	27434.4	26875.6	23233.3	22204.8	25308.8	25153.7	24989.5
59°	21915.1	23933.5	26845.9	28077.5	27740.0	24444.4	23288.1	25915.4	25352.1	25105.8
60°	22398.6	24394.2	27067.2	28164.2	28086.6	25165.1	23974.6	26211.9	25349.8	25007.7
62.5°	23833.2	25199.3	26982.8	27778.7	28082.1	26547.2	25988.4	26538.1	24880.0	24378.2
65°	24344.0	24932.5	25584.7	25486.7	25746.7	26476.5	27274.7	26180.0	23876.5	23162.6
67.5°	23349.7	22006.3	22236.7	21582.1	21454.4	23539.0	26752.4	24428.4	21912.8	21039.3
70°	19682.3	16858.8	16742.5	17043.6	16218.0	19057.4	24022.5	21055.3	18672.0	17682.2
72.5°	15492.7	11914.3	10933.6	12042.0	12016.9	14539.4	19956.0	14940.8	12614.5	12530.1
75°	12183.4	8294.9	7279.9	7460.1	7806.8	10525.4	15894.1	9487.7	7768.0	7079.2
77.5°	8178.5	5877.3	5482.8	5261.5	5635.6	6757.7	10055.5	5145.2	4356.1	4125.8
80°	4714.2	4269.4	4848.7	4401.7	4602.4	4258.0	5001.5	2360.5	1959.1	2121.0
82.5°	3067.5	2431.2	2590.9	1924.9	2631.9	2654.7	1605.6	697.9	590.7	627.2
85°	1918.1	1140.3	640.9	456.1	907.7	1669.5	501.8	43.3	50.2	43.3
87.5°	497.2	189.3	79.8	118.6	146.0	130.0	116.3	6.8	2.3	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)