

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: P455596

Luminaire Tested: **GALN-SA6D-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455596
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-SA6D-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 32944 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

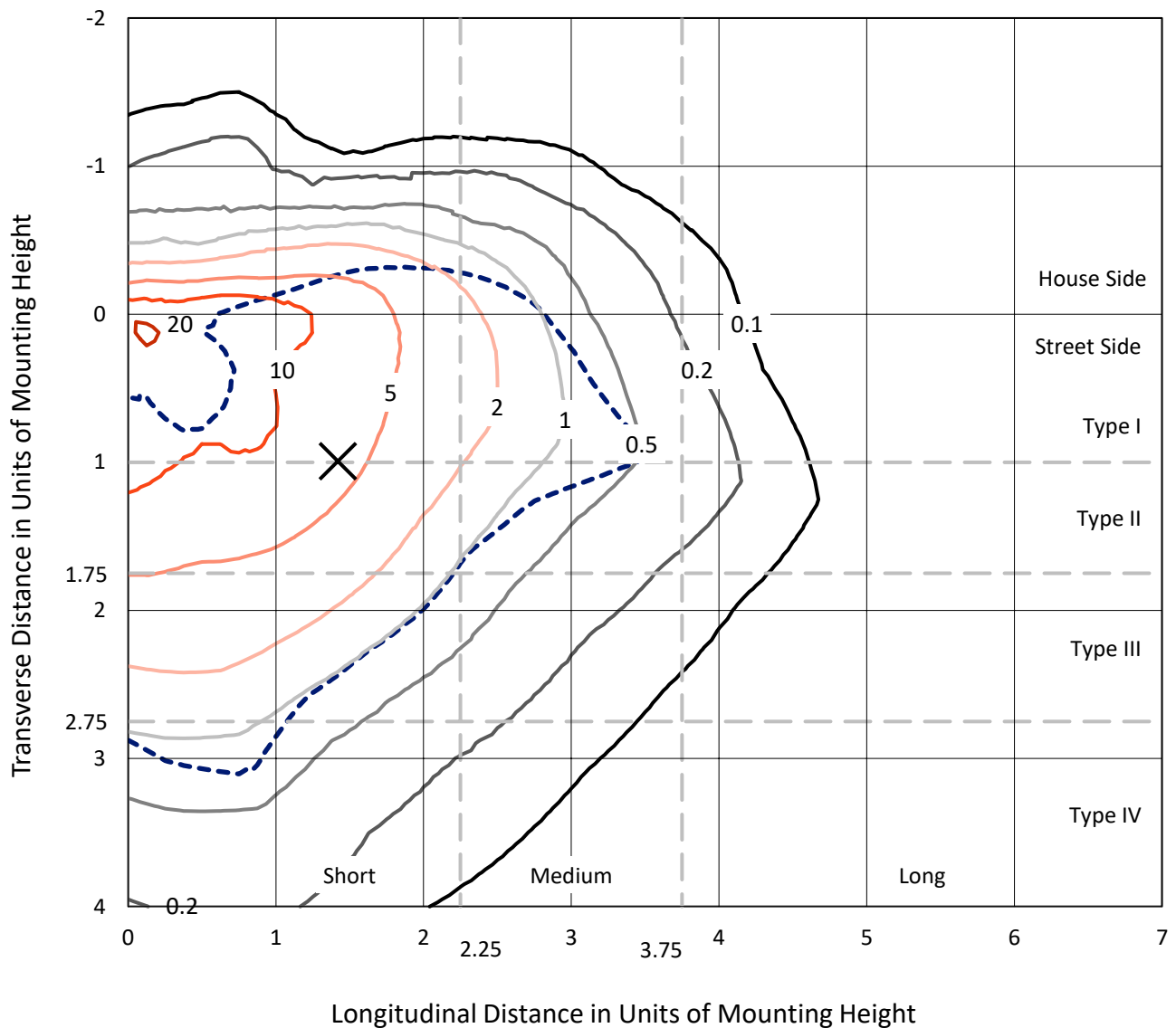
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

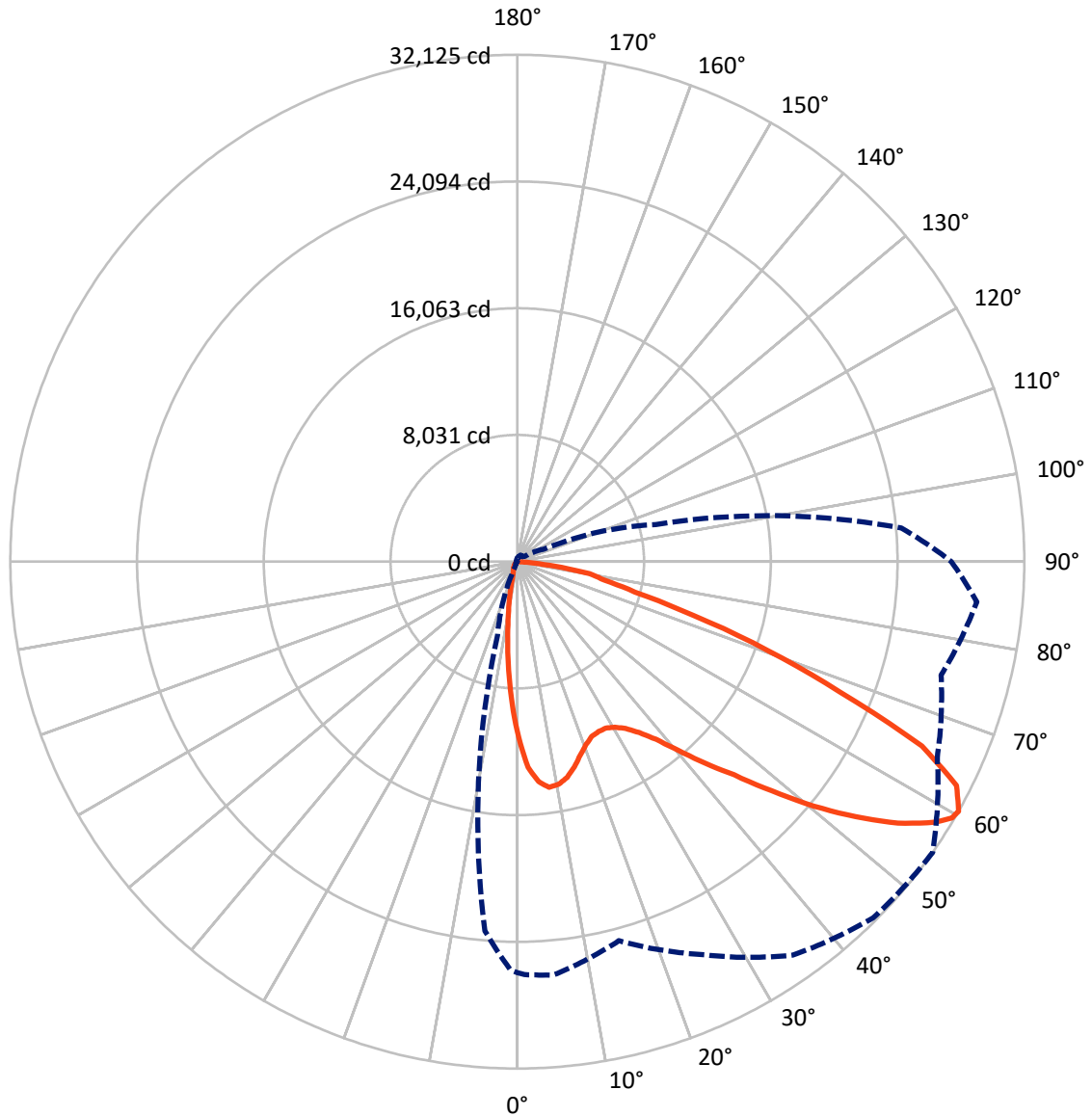
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 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	4889.2	0.0	4889.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	28054.8	0.0	28054.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	32944.0	0.0	32944.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	826.0	2.5
10°-20°	1626.6	4.9
20°-30°	2407.7	7.3
30°-40°	3588.9	10.9
40°-50°	5256.1	16.0
50°-60°	7588.1	23.0
60°-70°	7982.3	24.2
70°-80°	3283.6	10.0
80°-90°	384.6	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°	32944.0	100.0
0°-180°	32944.0	100.0



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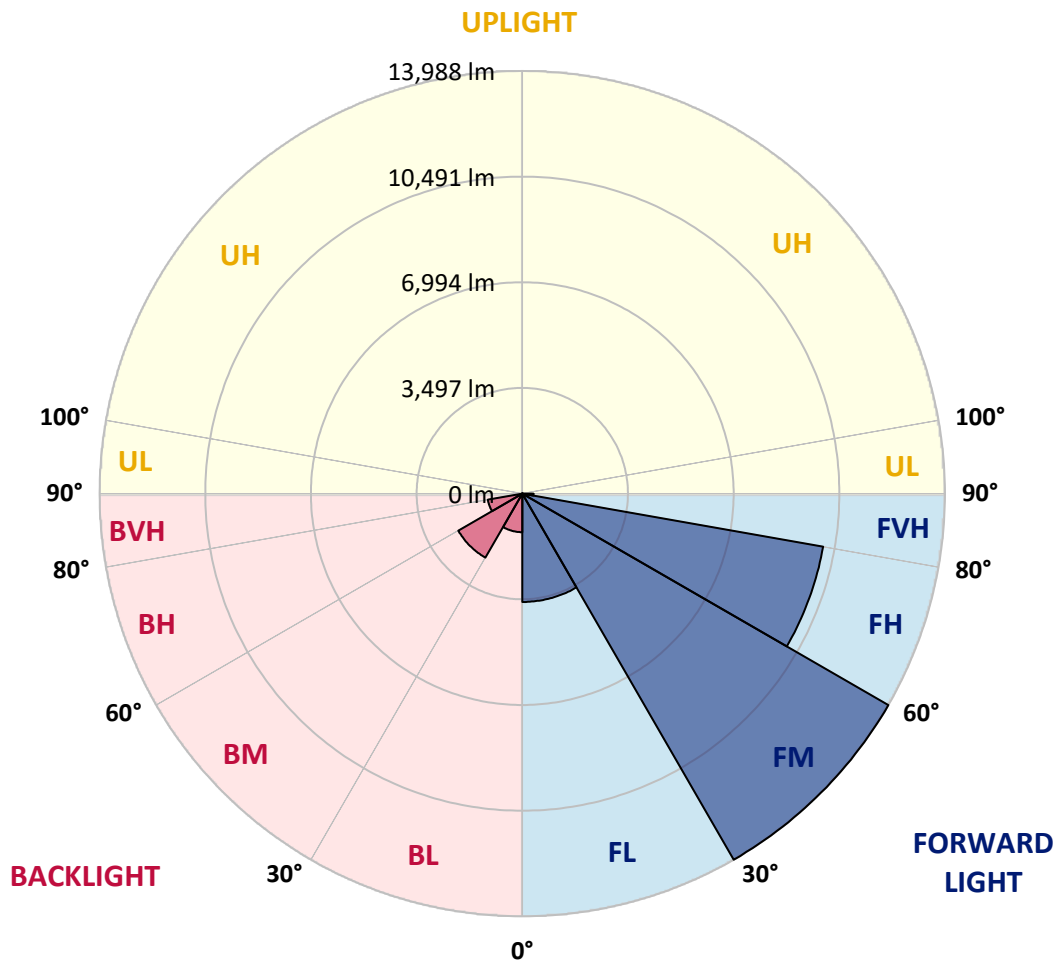
CATALOG NUMBER: GALN-SA6D-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3584.8	10.9			
FM (30°-60°)	13988.1	42.5			
FH (60°-80°)	10108.7	30.7			G4/12000
FVH (80°-90°)	373.3	1.1			G3/500
BL (0°-30°)	1275.6	3.9	B3/2500		
BM (30°-60°)	2445.0	7.4	B2/2500		
BH (60°-80°)	1157.2	3.5	B3/2500		G3/2500
BVH (80°-90°)	11.3	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7
2.5°	12186.8	12166.5	12346.5	12640.7	12937.4	13092.1	13061.6	13048.9	12803.0	12622.9	12245.1
5°	12161.4	12265.4	12587.4	13383.7	13987.2	14278.8	14365.0	14002.4	13523.1	12828.3	11971.3
7.5°	11433.7	11563.0	12087.9	13333.0	14405.6	15039.5	15016.7	14436.0	13447.1	12371.9	11149.7
10°	10531.0	10683.1	11299.3	12810.6	14202.7	15039.5	15085.2	14349.8	13120.0	11740.5	10454.9
12.5°	9894.5	10074.5	10756.6	12323.7	13680.4	14504.5	14557.7	14025.2	12874.0	11497.1	10077.1
15°	9678.9	9848.8	10541.1	12077.8	13125.0	13568.8	13556.1	13500.3	12777.6	11555.4	10097.3
17.5°	10049.2	10188.6	10969.6	12189.3	12605.2	12559.6	12625.5	12894.3	12797.9	12044.8	10736.3
20°	11005.1	11147.1	11986.5	12531.7	12207.1	11918.0	11948.4	12397.3	12985.6	12965.3	11735.4
22.5°	12321.2	12562.1	13322.8	13196.0	12153.8	11519.9	11456.5	12039.7	13305.1	14025.2	13084.5
25°	13987.2	14230.6	14824.0	14256.0	12415.0	11426.1	11367.7	11930.7	13693.0	15059.8	14603.4
27.5°	15386.9	15572.0	16162.8	15288.0	12800.4	11466.6	11370.3	11945.9	14007.5	15939.7	15883.9
30°	16507.7	16644.6	16992.0	15769.8	13132.6	11644.1	11532.6	12169.0	14146.9	16368.2	16921.0
32.5°	17410.4	17641.2	17750.2	16284.6	13609.3	11978.9	11788.7	12597.6	14486.7	16898.2	18008.9
35°	18442.5	18708.7	18569.3	16776.5	14238.2	12501.2	12267.9	13292.4	15001.5	17387.6	19271.7
37.5°	19750.9	20057.8	19512.6	17293.8	14902.6	13287.3	13178.3	14268.6	15782.5	18087.5	20625.8
40°	21105.0	21282.5	20428.0	17922.7	15719.1	14430.9	14534.9	15719.1	16804.4	18926.8	22066.1
42.5°	22162.4	22329.8	21368.7	18450.1	16553.4	15787.6	16221.2	17468.8	17975.9	19786.4	23141.2
45°	22971.3	23113.3	22020.4	19025.7	17679.2	17752.8	18571.8	19271.7	19150.0	20311.3	23970.4
47.5°	23600.2	23721.9	22522.5	19644.4	19365.5	20156.6	21409.3	21706.0	20367.1	20879.3	24721.0
50°	23858.8	23894.3	22679.7	20433.0	21280.0	23219.8	24525.7	24345.7	21761.8	21510.7	25519.7
52.5°	24196.1	24188.5	23128.5	21183.6	23080.4	25958.4	27261.8	26853.6	23339.0	22456.6	26417.4
55°	25081.1	25091.2	24089.6	22248.6	24614.5	28169.6	29564.3	29267.6	25002.5	24054.1	27464.7
57.5°	26156.2	26194.3	25456.4	23493.7	26080.1	29772.2	31283.5	31169.4	27251.7	25831.6	28453.6
59°	26295.7	26371.8	26103.0	24371.1	26949.9	30264.1	31871.8	31983.4	28456.1	27003.2	28988.6
60°	26042.1	26168.9	26290.6	24868.1	27459.6	30441.6	31907.3	32125.4	29361.4	27799.4	29232.1
62.5°	24936.5	25136.9	25748.0	26397.1	28096.1	29888.8	30773.8	31230.2	30482.2	29891.4	29254.9
65°	23488.6	23592.6	24475.0	26668.4	26861.2	27307.5	27581.3	28167.1	29135.7	30697.7	28207.6
67.5°	21115.2	21422.0	22502.2	25093.7	23217.3	22689.9	22621.4	22038.2	24553.6	28775.6	25626.3
70°	17443.4	17580.3	18911.6	20572.5	17522.0	16710.6	17035.1	16817.1	19033.3	24771.7	20625.8
72.5°	13191.0	13500.3	14801.2	16398.7	11923.1	10870.7	11765.9	11684.7	14296.5	19908.1	14169.7
75°	9384.8	9585.1	11243.5	12833.4	8350.2	7074.7	7396.8	7698.5	9980.7	15719.1	8373.0
77.5°	6448.4	6620.8	7865.9	8487.1	6090.9	5834.8	5337.7	5629.4	6539.7	9326.5	4556.7
80°	3889.8	3882.2	4701.3	4853.4	4242.3	4927.0	4133.3	4640.4	3953.2	3991.3	1764.9
82.5°	2525.6	2500.2	2875.5	3134.2	2360.8	2482.5	1666.0	2401.4	2576.3	1113.2	557.9
85°	1130.9	1179.1	1382.0	1823.2	1034.6	550.3	339.8	737.9	1098.0	560.4	0.0
87.5°	116.6	91.3	243.4	443.8	142.0	15.2	50.7	25.4	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°	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7
2.5°	12070.2	11923.1	11484.4	11073.6	10721.1	10290.1	10011.1	9572.4	9306.2	9225.0	9237.7
5°	11585.8	11162.4	10328.1	9661.2	8918.2	8494.7	7850.7	7231.9	6897.2	6773.0	6717.2
7.5°	10571.5	10117.6	9110.9	8063.7	7267.4	6524.5	6045.2	5500.0	5127.3	4820.5	4767.2
10°	9818.4	9222.5	7974.9	6849.1	6220.2	5662.3	5183.1	4637.9	4199.2	3849.3	3752.9
12.5°	9367.0	8700.1	7308.0	6364.7	5768.8	5195.7	4572.0	3940.5	3491.7	3113.9	2938.9
15°	9285.9	8512.5	7120.4	6017.3	5282.0	4589.7	3760.5	3078.4	2616.9	2259.3	2150.3
17.5°	9775.3	8849.8	7092.5	5654.7	4645.5	3664.2	2802.0	2236.5	1716.7	1516.4	1437.8
20°	10647.6	9445.7	7089.9	5233.8	3991.3	2822.3	1967.7	1458.1	1247.6	1151.2	1105.6
22.5°	11836.9	10257.1	7224.3	4871.2	3311.7	2081.8	1404.8	1161.4	1039.7	961.0	943.3
25°	13289.8	11459.0	7554.0	4625.2	2791.9	1633.0	1158.8	994.0	892.6	857.1	841.9
27.5°	14580.5	12610.3	7916.6	4371.6	2419.1	1445.4	1075.2	910.3	829.2	801.3	778.5
30°	15693.7	13655.0	8091.6	4036.9	2119.9	1323.7	1090.4	973.7	867.2	783.5	745.5
32.5°	16621.8	14456.3	8205.7	3732.6	1866.3	1082.8	862.2	753.1	704.9	674.5	649.2
35°	17783.2	15323.5	8137.2	3560.2	1737.0	986.4	786.1	649.2	568.0	507.1	481.8
37.5°	19000.3	16190.7	8018.0	3418.2	1678.7	915.4	748.0	616.2	527.4	464.0	431.1
40°	20260.6	16994.6	7878.6	3286.3	1625.4	869.8	725.2	588.3	499.5	431.1	395.6
42.5°	21414.4	17778.1	7822.8	3200.1	1539.2	877.4	707.5	575.6	471.6	400.6	370.2
45°	22347.5	18521.1	7898.8	3154.5	1445.4	864.7	712.5	560.4	448.8	380.4	349.9
47.5°	23344.1	19570.9	8144.8	3108.8	1354.1	803.8	750.6	557.9	438.7	367.7	334.7
50°	24502.9	20914.8	8707.8	2997.3	1242.5	737.9	798.8	555.3	426.0	352.5	319.5
52.5°	26047.2	22441.4	9288.4	2802.0	1080.2	674.5	763.3	547.7	400.6	334.7	301.8
55°	27434.2	24049.0	9780.4	2571.2	874.8	583.2	687.2	514.8	357.5	304.3	273.9
57.5°	28007.3	24956.8	9765.2	2251.7	699.9	512.2	565.5	471.6	311.9	268.8	243.4
59°	27796.8	24842.7	9438.0	2015.9	639.0	474.2	469.1	466.6	291.6	243.4	223.1
60°	27500.2	24426.8	9085.6	1899.3	601.0	448.8	431.1	461.5	273.9	228.2	207.9
62.5°	26364.2	22702.5	7916.6	1701.5	550.3	380.4	344.9	390.5	243.4	197.8	180.0
65°	24718.5	20052.7	6702.0	1645.7	535.0	314.4	286.5	278.9	207.9	167.4	152.1
67.5°	21508.2	16969.2	5429.0	1607.7	540.1	263.7	251.0	210.5	172.4	139.5	129.3
70°	17220.3	13231.5	4445.2	1564.6	545.2	215.5	210.5	167.4	139.5	116.6	106.5
72.5°	10462.5	7843.1	3499.3	1359.2	530.0	172.4	187.6	126.8	101.4	83.7	78.6
75°	6468.7	5368.2	2170.6	1057.4	349.9	126.8	131.9	78.6	68.5	53.3	53.3
77.5°	3747.8	3390.3	775.9	380.4	154.7	76.1	58.3	40.6	38.0	22.8	22.8
80°	1554.4	1245.1	268.8	129.3	83.7	35.5	12.7	2.5	0.0	0.0	0.0
82.5°	453.9	403.2	73.5	58.3	25.4	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°	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7
2.5°	9022.2	8938.5	8900.5	9029.8	8910.6	9062.8	8946.1	8996.8	9146.4	9212.4	9382.3
5°	6752.7	6666.5	6625.9	6821.2	6811.0	6907.4	6897.2	6986.0	7062.1	6892.2	7067.1
7.5°	4703.8	4645.5	4741.8	4894.0	5056.3	5003.0	5003.0	4883.8	4924.4	4899.1	4891.5
10°	3577.9	3377.6	3326.9	3321.8	3382.7	3395.4	3326.9	3162.1	3222.9	3240.7	3347.2
12.5°	2814.7	2660.0	2424.2	2317.7	2289.8	2312.6	2086.9	1942.4	2010.8	1970.3	2074.2
15°	2018.5	1891.7	1752.2	1633.0	1600.1	1554.4	1308.4	1136.0	1115.7	1123.3	1141.1
17.5°	1440.3	1354.1	1354.1	1227.3	1158.8	1021.9	897.7	821.6	814.0	821.6	834.3
20°	1062.5	1016.8	1011.8	978.8	902.7	811.4	725.2	710.0	704.9	717.6	722.7
22.5°	915.4	867.2	826.7	824.1	753.1	677.0	636.5	616.2	618.7	623.8	636.5
25°	819.0	768.3	725.2	699.9	649.2	595.9	557.9	547.7	547.7	555.3	557.9
27.5°	750.6	687.2	649.2	613.7	568.0	522.4	489.4	481.8	476.7	481.8	494.5
30°	702.4	639.0	590.8	537.6	502.1	459.0	431.1	420.9	418.4	420.9	431.1
32.5°	601.0	562.9	524.9	476.7	433.6	405.7	375.3	357.5	357.5	362.6	372.8
35°	453.9	433.6	431.1	418.4	382.9	352.5	317.0	299.2	299.2	309.4	314.4
37.5°	400.6	362.6	357.5	352.5	337.3	296.7	263.7	248.5	246.0	253.6	263.7
40°	365.1	322.0	299.2	294.1	296.7	251.0	215.5	200.3	200.3	202.9	213.0
42.5°	337.3	286.5	246.0	240.9	251.0	210.5	175.0	159.8	159.8	159.8	172.4
45°	314.4	256.1	207.9	182.6	197.8	172.4	142.0	126.8	121.7	126.8	131.9
47.5°	299.2	233.3	182.6	147.1	147.1	136.9	114.1	96.4	91.3	93.8	101.4
50°	286.5	213.0	154.7	119.2	106.5	109.0	86.2	73.5	68.5	68.5	76.1
52.5°	266.3	192.7	134.4	101.4	81.1	73.5	63.4	53.3	50.7	53.3	58.3
55°	240.9	175.0	116.6	83.7	63.4	50.7	45.6	38.0	35.5	38.0	45.6
57.5°	213.0	147.1	93.8	65.9	43.1	33.0	30.4	25.4	20.3	22.8	27.9
59°	195.3	131.9	81.1	53.3	33.0	22.8	22.8	17.8	12.7	15.2	22.8
60°	187.6	121.7	68.5	45.6	27.9	17.8	17.8	12.7	7.6	10.1	17.8
62.5°	159.8	101.4	53.3	27.9	12.7	2.5	7.6	2.5	0.0	2.5	7.6
65°	134.4	81.1	35.5	12.7	0.0	0.0	0.0	0.0	0.0	0.0	2.5
67.5°	111.6	60.9	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	88.8	40.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	60.9	22.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	38.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.2	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: P455596

CATALOG NUMBER: GALN-SA6D-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7	11154.7
2.5°	9392.4	9755.0	9978.2	10399.1	10830.2	11162.4	11578.2	11951.0	12105.7	12186.8
5°	7244.6	7749.2	8177.8	8819.3	9415.2	10140.4	10875.8	11743.0	12075.2	12161.4
7.5°	5084.2	5598.9	6047.8	6790.7	7640.2	8611.4	9711.9	10812.4	11296.7	11433.7
10°	3671.8	4222.0	4769.7	5512.7	6306.4	7358.7	8504.9	9866.6	10424.5	10531.0
12.5°	2317.7	2908.5	3798.5	4716.5	5555.8	6402.8	7602.2	9083.0	9699.2	9894.5
15°	1343.9	1785.2	2457.1	3654.0	4721.6	5842.4	7150.8	8788.9	9478.6	9678.9
17.5°	900.2	1052.3	1513.8	2429.2	3839.1	5325.1	7036.7	9029.8	9793.1	10049.2
20°	758.2	826.7	988.9	1480.9	2956.7	4863.6	7067.1	9684.0	10685.6	11005.1
22.5°	666.9	730.3	834.3	1065.0	2064.1	4290.5	7211.7	10619.7	11912.9	12321.2
25°	588.3	651.7	743.0	882.4	1387.1	3628.7	7528.6	11989.0	13538.3	13987.2
27.5°	522.4	580.7	659.3	778.5	1067.5	2890.8	7810.1	13322.8	15021.8	15386.9
30°	461.5	509.7	585.8	677.0	887.5	2228.9	7952.1	14489.3	16102.0	16507.7
32.5°	400.6	446.3	519.8	593.4	730.3	1698.9	7853.2	15346.3	17151.8	17410.4
35°	342.3	390.5	451.4	519.8	631.4	1371.8	7358.7	16309.9	18239.6	18442.5
37.5°	294.1	334.7	398.1	451.4	570.5	1098.0	6760.3	17177.1	19459.3	19750.9
40°	248.5	289.1	352.5	400.6	524.9	864.7	6220.2	18140.7	20744.9	21105.0
42.5°	202.9	251.0	306.8	385.4	451.4	659.3	5566.0	18921.7	21711.1	22162.4
45°	162.3	215.5	276.4	382.9	393.0	502.1	4934.6	19530.3	22565.6	22971.3
47.5°	129.3	182.6	266.3	357.5	322.0	398.1	4574.5	20166.8	23275.6	23600.2
50°	104.0	152.1	278.9	314.4	268.8	337.3	4564.3	20876.8	23643.3	23858.8
52.5°	83.7	124.3	235.8	240.9	228.2	296.7	4838.2	21675.6	24018.6	24196.1
55°	71.0	104.0	154.7	177.5	205.4	268.8	5043.6	22905.4	24913.7	25081.1
57.5°	55.8	88.8	119.2	142.0	182.6	246.0	5071.5	23853.8	26047.2	26156.2
59°	48.2	76.1	106.5	126.8	167.4	230.8	4957.4	23912.1	26120.7	26295.7
60°	40.6	68.5	93.8	119.2	154.7	218.1	4833.1	23488.6	25846.9	26042.1
62.5°	30.4	53.3	68.5	96.4	126.8	187.6	4244.8	22010.3	24799.6	24936.5
65°	20.3	38.0	50.7	71.0	98.9	162.3	3458.8	20093.3	23181.8	23488.6
67.5°	12.7	27.9	40.6	53.3	81.1	136.9	2464.7	17230.4	20917.4	21115.2
70°	7.6	17.8	30.4	43.1	63.4	109.0	1463.1	13619.5	17402.8	17443.4
72.5°	5.1	12.7	20.3	30.4	50.7	98.9	710.0	8877.6	12706.6	13191.0
75°	2.5	7.6	12.7	22.8	40.6	81.1	339.8	5931.1	9245.3	9384.8
77.5°	0.0	2.5	7.6	15.2	30.4	63.4	197.8	3894.9	6303.9	6448.4
80°	0.0	0.0	5.1	12.7	22.8	40.6	119.2	2297.4	3818.8	3889.8
82.5°	0.0	0.0	2.5	10.1	15.2	30.4	60.9	1009.2	2500.2	2525.6
85°	0.0	0.0	2.5	10.1	12.7	20.3	22.8	136.9	1110.7	1130.9
87.5°	0.0	0.0	2.5	12.7	12.7	12.7	12.7	7.6	93.8	116.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)