

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: P452813

Luminaire Tested: **GALN-SA3D-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19906 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

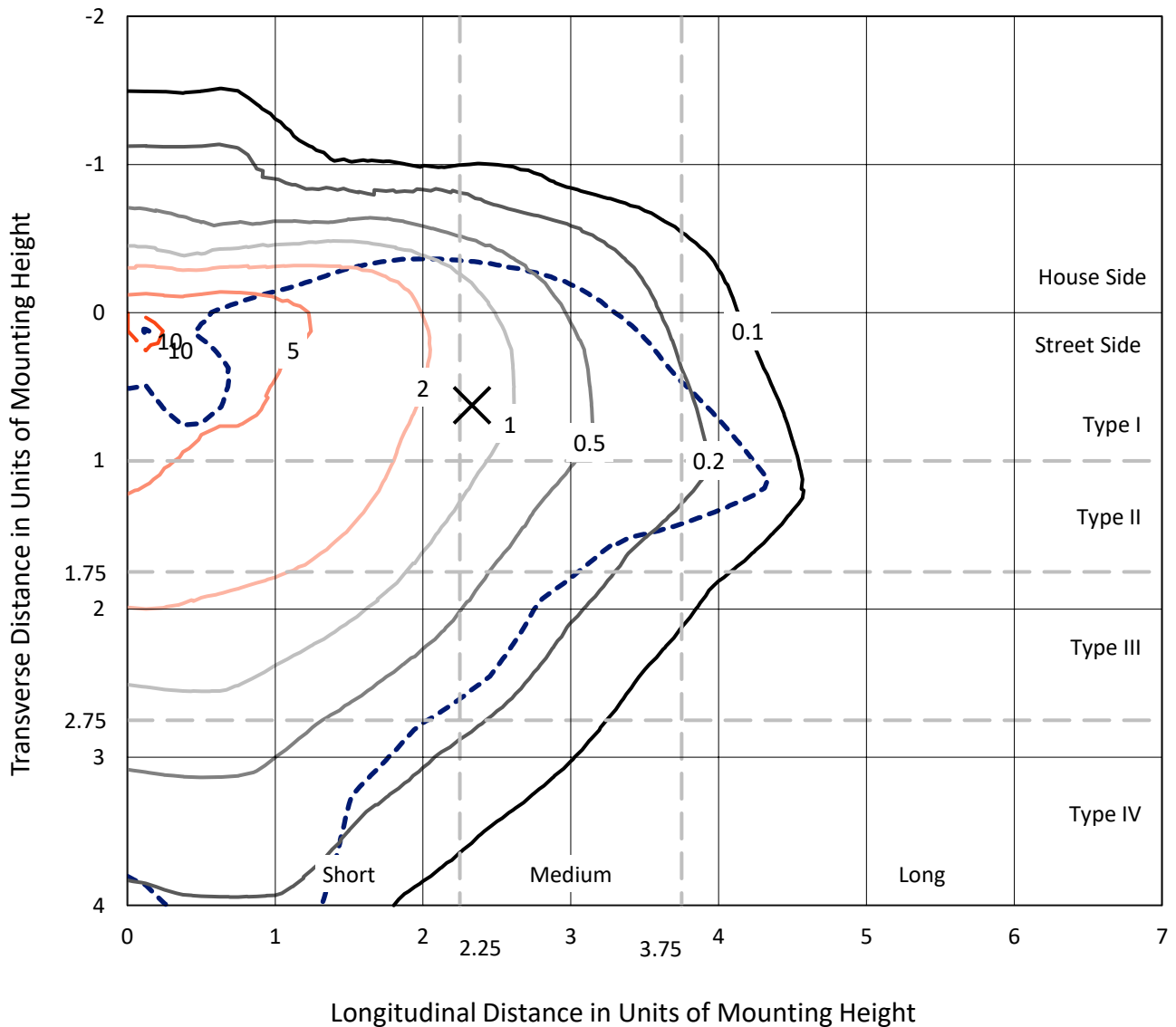
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

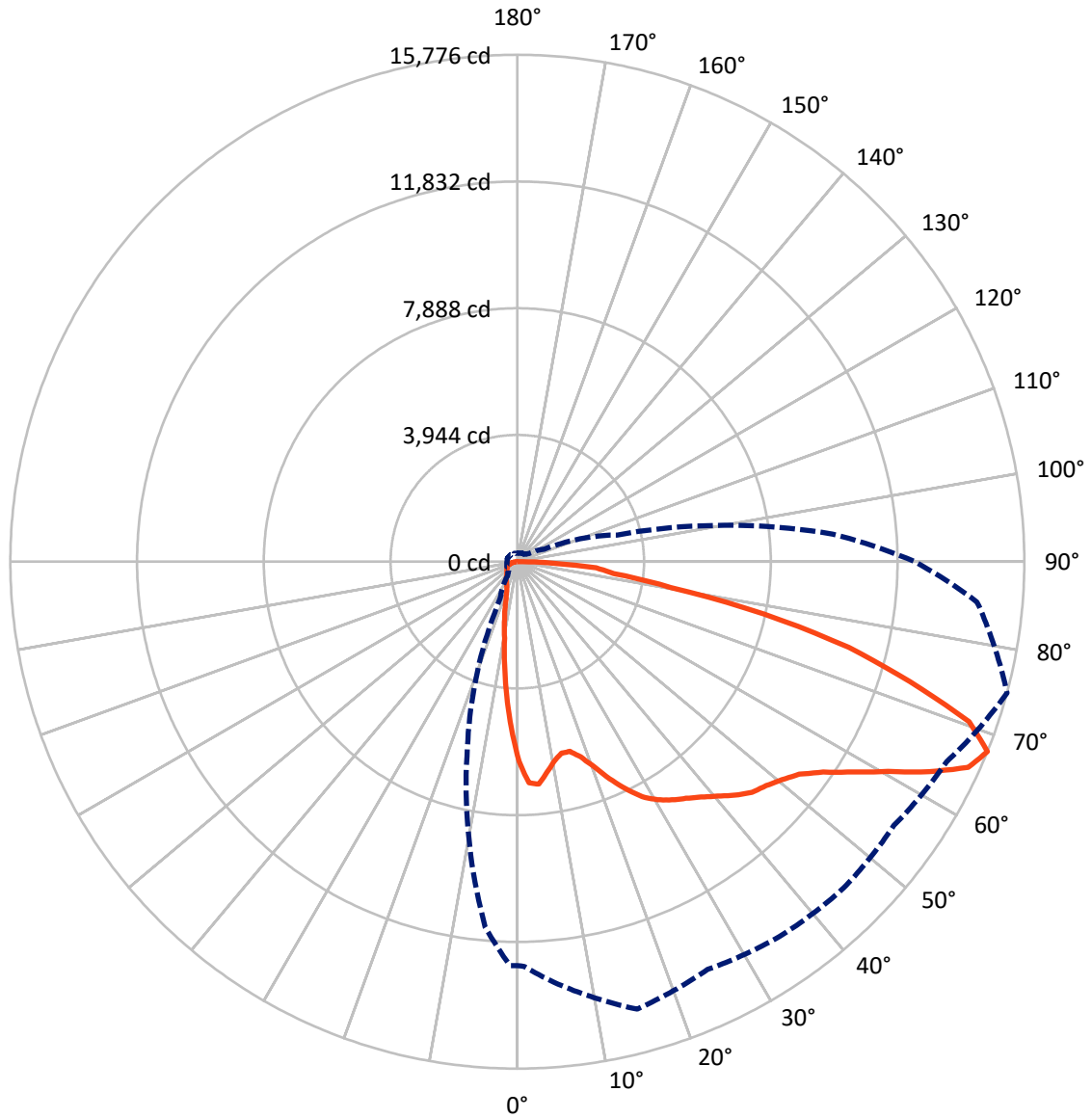
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3364.5	0.0	3364.5
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	16541.5	0.0	16541.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	19906.0	0.0	19906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.7	2.4
10°-20°	983.7	4.9
20°-30°	1415.6	7.1
30°-40°	2038.9	10.2
40°-50°	2864.1	14.4
50°-60°	3994.4	20.1
60°-70°	4749.1	23.9
70°-80°	2797.0	14.1
80°-90°	591.5	3.0
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°	19906.0	100.0
0°-180°	19906.0	100.0

Coefficient of Utilization



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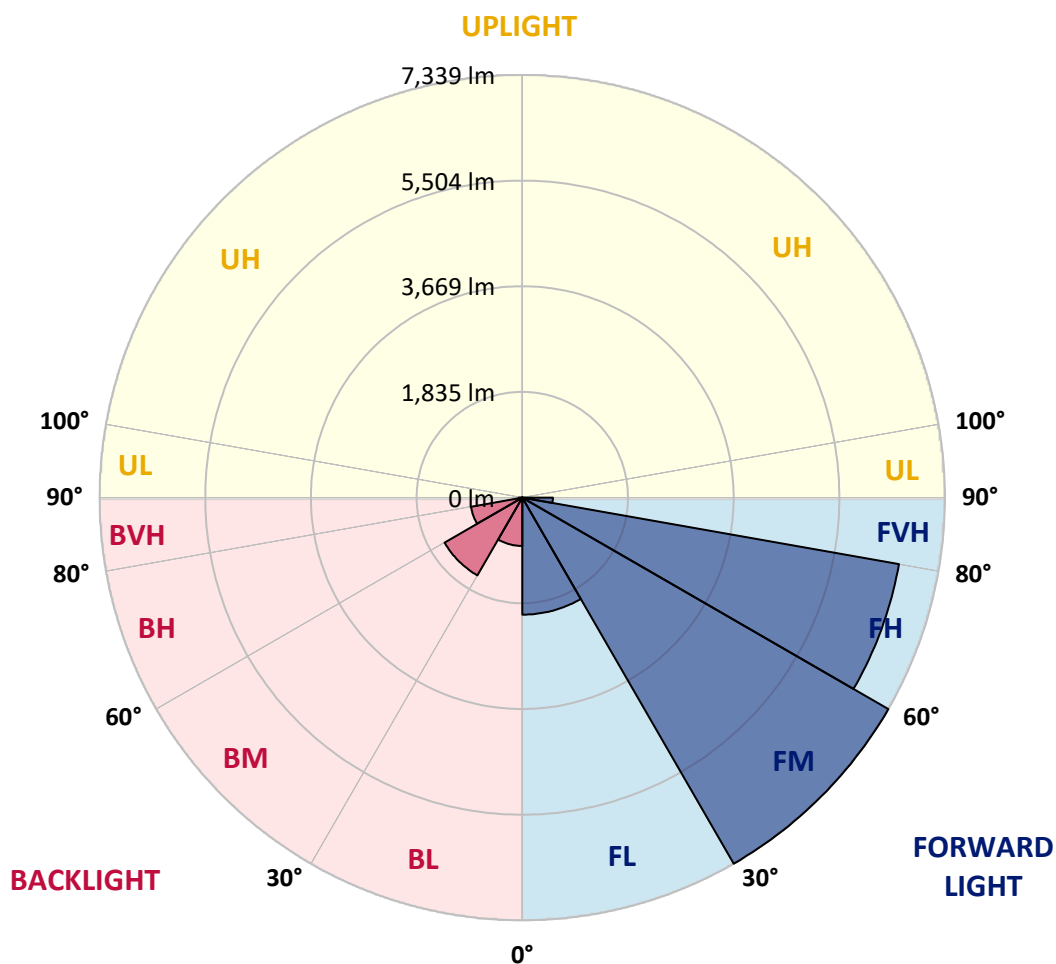
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2031.9	10.2			
FM	(30°-60°)	7338.6	36.9			
FH	(60°-80°)	6640.7	33.4			G3/7500
FVH	(80°-90°)	530.3	2.7			G4/750
BL	(0°-30°)	839.2	4.2	B2/1000		
BM	(30°-60°)	1558.8	7.8	B2/2500		
BH	(60°-80°)	905.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	61.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1
2.5°	6705.5	6714.4	6771.8	6939.1	7053.9	7096.1	7125.4	7070.5	7016.9	6886.7	6690.1
5°	6685.0	6737.4	6886.7	7262.0	7558.2	7685.8	7724.1	7559.4	7287.5	6953.1	6551.0
7.5°	6294.4	6364.6	6594.4	7223.7	7745.8	8044.5	8004.9	7707.5	7217.3	6621.2	6059.5
10°	5831.0	5908.9	6185.9	6946.7	7619.4	8030.5	8030.5	7667.9	7016.9	6308.5	5661.3
12.5°	5463.4	5545.1	5861.7	6662.1	7356.5	7745.8	7810.9	7499.4	6872.7	6110.6	5399.6
15°	5342.2	5421.3	5762.1	6489.7	7078.2	7315.6	7337.3	7235.2	6802.5	6124.6	5388.1
17.5°	5492.8	5594.9	5939.6	6540.8	6822.9	6836.9	6853.5	6933.9	6810.1	6381.2	5620.4
20°	5928.1	6037.8	6397.8	6705.5	6599.5	6454.0	6462.9	6669.7	6900.8	6805.0	6175.7
22.5°	6556.1	6651.8	7020.7	6995.2	6505.0	6205.1	6142.5	6431.0	7034.8	7333.5	6766.7
25°	7233.9	7346.3	7770.1	7425.4	6531.8	6057.0	6017.4	6290.6	7173.9	7827.5	7449.7
27.5°	8010.0	8119.8	8454.3	7859.4	6672.3	6045.5	5998.3	6277.8	7299.0	8284.5	8101.9
30°	8587.0	8687.9	8915.1	8224.5	6844.6	6122.1	6063.4	6378.7	7406.2	8597.2	8737.6
32.5°	9040.2	9144.8	9268.7	8451.7	7071.8	6261.2	6152.7	6562.5	7546.7	8835.9	9208.7
35°	9512.5	9636.3	9627.4	8653.4	7283.7	6422.1	6316.1	6828.0	7767.5	9044.0	9806.1
37.5°	10111.2	10160.9	10097.1	8834.7	7537.7	6711.8	6653.1	7222.4	8081.5	9295.5	10504.3
40°	10718.8	10818.3	10490.3	9054.2	7846.6	7256.9	7250.5	7805.8	8454.3	9590.3	11180.9
42.5°	11239.6	11323.8	10857.9	9245.7	8220.7	7922.0	7970.5	8588.3	8943.2	9932.4	11724.6
45°	11631.5	11706.8	11197.5	9430.8	8713.4	8690.4	8976.3	9426.9	9559.7	10240.1	12043.8
47.5°	11964.6	12037.4	11433.6	9711.6	9322.3	9608.2	10106.0	10301.4	10086.9	10416.2	12401.2
50°	12245.5	12267.2	11595.7	10046.1	10078.0	10732.8	11215.3	11341.7	10607.7	10669.0	12711.4
52.5°	12537.8	12509.7	11875.3	10467.3	10894.9	11800.0	12151.0	12282.5	11106.8	10980.4	13163.3
55°	13192.6	13219.4	12502.0	10998.3	11720.8	12848.0	13310.1	13183.7	11659.5	11553.6	13737.7
57.5°	13984.1	13961.1	13384.1	11829.3	12562.0	13823.2	14167.9	13964.9	12397.4	12341.2	14319.8
60°	14291.7	14322.3	14121.9	12722.9	13391.8	14677.2	15029.5	14714.2	13282.0	13256.4	14758.9
62.5°	13982.8	14155.1	14290.4	13518.1	14098.9	15305.2	15655.0	15295.0	14204.9	14390.0	15066.5
65°	13367.5	13404.5	13865.3	14192.1	14439.8	15408.6	15591.2	15399.7	14975.9	15422.7	15052.5
67.5°	12568.4	12600.3	13140.3	14413.0	14000.6	14234.2	14361.9	14305.7	14737.2	15776.3	14359.3
70°	11807.6	11782.1	12352.7	13850.0	12188.0	11833.2	11939.1	11762.9	12716.5	14912.1	12999.9
72.5°	10326.9	10418.8	11031.5	12285.0	9650.3	9073.4	9304.4	8848.7	9780.5	12771.4	10551.5
75°	8089.2	8110.9	9133.4	10310.3	7279.9	6369.7	6682.5	6492.3	7491.8	10653.7	7286.3
77.5°	5601.3	5552.8	6651.8	7874.7	5191.5	4663.1	4668.2	4577.5	5231.1	7844.1	4950.3
80°	3557.6	3483.6	4163.9	4864.7	3567.8	3816.7	3691.6	3687.8	3405.7	4839.2	2993.4
82.5°	1922.4	2004.1	2630.9	3049.6	2559.4	2950.0	2703.6	2624.5	2337.3	3029.1	1914.7
85°	875.7	952.3	1402.9	2074.3	1944.1	1965.8	1313.5	1549.7	1933.9	2459.8	1022.5
87.5°	85.5	109.8	289.8	979.1	663.8	523.4	195.3	376.6	486.3	874.4	81.7
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°	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1
2.5°	6609.7	6543.3	6317.4	6131.0	5933.2	5782.5	5586.0	5454.5	5363.9	5227.3	5210.7
5°	6305.9	6143.8	5750.6	5349.8	5003.9	4743.5	4479.2	4236.7	4093.7	4049.1	3991.6
7.5°	5794.0	5520.9	5015.4	4555.8	4158.8	3770.8	3472.1	3260.2	3118.5	3035.5	2935.9
10°	5372.8	5056.2	4440.9	3878.0	3551.2	3310.0	3047.0	2819.8	2644.9	2495.6	2413.9
12.5°	5089.4	4732.0	4040.1	3583.1	3330.4	3073.8	2766.2	2510.9	2253.0	2083.2	2010.5
15°	5003.9	4626.0	3916.3	3436.3	3073.8	2738.1	2393.4	2060.3	1805.0	1644.1	1590.5
17.5°	5213.2	4756.2	3915.0	3241.0	2772.6	2371.7	1930.1	1617.3	1355.6	1235.7	1197.4
20°	5603.8	5006.4	3926.5	3048.3	2445.8	1881.6	1404.1	1147.6	1022.5	971.4	952.3
22.5°	6148.9	5388.1	3961.0	2858.1	2088.4	1445.0	1051.8	921.6	877.0	868.0	864.2
25°	6820.3	5860.4	4077.1	2687.0	1787.1	1102.9	879.5	820.8	795.3	786.3	785.0
27.5°	7438.2	6470.6	4217.6	2540.2	1496.1	951.0	795.3	745.5	719.9	718.7	721.2
30°	7996.0	6981.2	4335.0	2375.6	1275.2	845.0	740.4	690.6	666.3	665.1	672.7
32.5°	8478.5	7401.1	4421.8	2213.5	1152.7	779.9	690.6	637.0	616.5	612.7	616.5
35°	8994.2	7819.8	4382.2	2087.1	1082.5	726.3	653.6	601.2	577.0	565.5	565.5
37.5°	9582.7	8251.3	4314.6	1982.4	1050.6	681.7	621.7	570.6	546.3	534.9	533.6
40°	10224.8	8682.7	4221.4	1889.2	1018.6	654.8	600.0	546.3	517.0	505.5	502.9
42.5°	10791.5	9051.7	4144.8	1827.9	966.3	660.0	580.8	528.5	491.5	476.1	474.9
45°	11284.3	9423.1	4130.8	1792.2	922.9	652.3	575.7	514.4	471.0	454.4	451.9
47.5°	11669.8	9809.9	4211.2	1771.8	875.7	611.4	608.9	505.5	453.2	435.3	432.7
50°	12139.5	10358.8	4395.0	1729.7	832.3	573.1	643.4	504.2	439.1	416.1	409.8
52.5°	12765.0	11073.6	4643.9	1654.3	769.7	537.4	614.0	504.2	422.5	399.5	391.9
55°	13710.9	11985.1	4887.7	1548.4	681.7	490.2	554.0	488.9	398.3	377.8	372.7
57.5°	14337.6	12651.4	5043.4	1401.6	571.9	455.7	477.4	464.6	374.0	352.3	352.3
60°	14369.6	12830.1	4969.4	1216.5	502.9	423.8	414.9	468.5	352.3	329.3	326.8
62.5°	14001.9	12392.3	4583.9	1050.6	465.9	389.3	375.3	411.0	330.6	307.6	303.8
65°	13427.5	11275.3	3915.0	971.4	445.5	358.7	338.3	337.0	307.6	285.9	280.8
67.5°	12371.8	9853.3	3216.8	925.5	435.3	324.2	305.1	298.7	280.8	263.0	260.4
70°	10815.8	8252.6	2579.8	906.3	430.2	288.5	273.2	265.5	250.2	236.2	234.9
72.5°	8414.7	6694.0	2129.2	893.5	427.6	255.3	238.7	228.5	219.6	206.8	206.8
75°	6044.2	4924.7	1625.0	805.5	395.7	219.6	201.7	195.3	182.5	172.3	174.9
77.5°	3810.4	3316.3	1069.7	592.3	306.4	176.2	160.8	157.0	146.8	132.8	141.7
80°	2573.4	2332.2	624.2	372.7	192.8	128.9	123.8	122.5	111.1	95.7	97.0
82.5°	1751.4	1718.2	324.2	211.9	111.1	75.3	72.8	75.3	62.5	51.1	51.1
85°	684.2	934.4	153.2	83.0	35.7	11.5	16.6	17.9	10.2	5.1	6.4
87.5°	12.8	95.7	3.8	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°	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1
2.5°	5185.1	5173.7	5192.8	5111.1	5127.7	5158.3	5173.7	5182.6	5309.0	5279.6	5360.0
5°	4045.2	4033.7	4107.8	4118.0	4156.3	4148.6	4185.6	4194.6	4240.5	4257.1	4369.5
7.5°	2942.3	2992.1	3076.4	3119.8	3184.9	3205.3	3186.1	3233.4	3137.6	3206.6	3227.0
10°	2364.1	2304.1	2268.3	2367.9	2380.7	2475.1	2436.8	2406.2	2462.4	2464.9	2518.5
12.5°	1968.4	1839.4	1753.9	1782.0	1812.6	1853.5	1859.9	1921.1	1962.0	2000.3	2032.2
15°	1543.3	1498.6	1420.7	1382.4	1425.8	1442.4	1482.0	1533.1	1576.5	1588.0	1631.4
17.5°	1184.6	1192.3	1179.5	1156.5	1183.3	1196.1	1198.6	1199.9	1211.4	1203.7	1267.6
20°	953.5	980.4	1012.3	1017.4	1026.3	1032.7	1021.2	977.8	979.1	1005.9	1026.3
22.5°	862.9	868.0	903.8	915.3	943.3	931.8	898.7	878.2	875.7	882.1	892.3
25°	791.4	799.1	824.6	842.5	864.2	843.8	819.5	800.4	797.8	804.2	814.4
27.5°	727.6	739.1	762.1	779.9	800.4	781.2	758.2	741.6	740.4	739.1	745.5
30°	676.5	689.3	705.9	726.3	740.4	723.8	702.1	693.1	691.9	689.3	691.9
32.5°	625.5	645.9	662.5	672.7	686.8	674.0	657.4	652.3	643.4	635.7	631.9
35°	568.0	589.7	615.3	628.0	642.1	629.3	617.8	596.1	580.8	579.5	582.1
37.5°	534.9	543.8	564.2	585.9	600.0	593.6	571.9	550.2	546.3	546.3	548.9
40°	505.5	509.3	518.3	546.3	571.9	552.7	525.9	519.5	519.5	518.3	519.5
42.5°	476.1	480.0	480.0	501.7	542.5	511.9	491.5	491.5	491.5	492.7	496.6
45°	449.3	450.6	449.3	464.6	502.9	477.4	463.4	467.2	469.8	472.3	474.9
47.5°	426.4	427.6	426.4	439.1	458.3	448.1	440.4	445.5	450.6	454.4	457.0
50°	405.9	404.7	407.2	414.9	423.8	426.4	421.2	428.9	431.5	436.6	442.9
52.5°	388.1	386.8	389.3	393.2	405.9	405.9	405.9	412.3	417.4	422.5	431.5
55°	367.6	368.9	372.7	377.8	394.4	391.9	393.2	398.3	403.4	411.0	416.1
57.5°	348.5	351.0	356.1	363.8	380.4	379.1	380.4	382.9	389.3	393.2	398.3
60°	326.8	331.9	338.3	343.4	360.0	358.7	365.1	370.2	374.0	374.0	376.6
62.5°	305.1	312.7	319.1	323.0	340.8	342.1	351.0	354.9	357.4	354.9	358.7
65°	283.4	294.9	297.4	302.5	320.4	321.7	331.9	340.8	338.3	335.7	342.1
67.5°	261.7	275.7	274.4	280.8	298.7	301.3	310.2	325.5	320.4	317.8	323.0
70°	237.4	247.6	248.9	252.7	277.0	273.2	287.2	301.3	297.4	298.7	298.7
72.5°	210.6	219.6	219.6	227.2	252.7	246.4	257.9	273.2	273.2	271.9	271.9
75°	178.7	183.8	188.9	200.4	227.2	219.6	227.2	241.3	243.8	241.3	241.3
77.5°	144.2	151.9	154.5	169.8	188.9	187.6	195.3	201.7	206.8	204.2	204.2
80°	102.1	109.8	120.0	136.6	148.1	151.9	155.7	160.8	163.4	163.4	165.9
82.5°	57.4	68.9	77.9	94.5	99.6	118.7	117.4	121.3	117.4	103.4	114.9
85°	12.8	24.3	34.5	43.4	49.8	68.9	72.8	81.7	67.7	62.5	62.5
87.5°	0.0	0.0	0.0	0.0	0.0	10.2	20.4	28.1	24.3	20.4	20.4
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: P452813
 CATALOG NUMBER: GALN-SA3D-740-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1	6219.1
2.5°	5427.7	5538.7	5672.8	5903.8	6065.9	6240.8	6417.0	6604.6	6654.4	6705.5
5°	4400.1	4618.4	4737.1	5047.3	5372.8	5786.4	6124.6	6494.8	6649.3	6685.0
7.5°	3332.9	3481.0	3792.5	4106.5	4509.9	4943.9	5462.1	6039.1	6219.1	6294.4
10°	2642.4	2844.0	3117.2	3454.2	3807.8	4275.0	4859.6	5533.6	5788.9	5831.0
12.5°	2249.2	2473.9	2771.3	3127.4	3461.9	3814.2	4403.9	5099.6	5372.8	5463.4
15°	1798.6	2070.5	2413.9	2789.2	3153.0	3538.5	4135.9	4920.9	5236.2	5342.2
17.5°	1413.1	1632.6	2004.1	2411.3	2842.8	3330.4	4079.7	5006.4	5394.5	5492.8
20°	1081.2	1238.2	1550.9	1981.1	2486.6	3124.9	4093.7	5329.4	5794.0	5928.1
22.5°	934.4	1014.8	1205.0	1614.8	2180.3	2946.2	4151.2	5772.3	6332.7	6556.1
25°	846.3	888.4	995.7	1263.7	1887.9	2772.6	4282.7	6368.5	7085.8	7233.9
27.5°	771.0	801.6	868.0	1060.8	1622.4	2611.7	4435.8	7029.7	7789.2	8010.0
30°	699.5	740.4	802.9	942.1	1452.7	2464.9	4628.6	7565.8	8381.5	8587.0
32.5°	644.6	685.5	742.9	859.1	1308.4	2310.5	4743.5	8036.8	8865.3	9040.2
35°	600.0	634.4	694.4	792.7	1198.6	2193.0	4720.5	8410.9	9333.8	9512.5
37.5°	568.0	597.4	657.4	730.2	1115.7	2070.5	4709.0	8904.9	9904.4	10111.2
40°	538.7	569.3	624.2	689.3	1032.7	1926.2	4715.4	9395.0	10512.0	10718.8
42.5°	515.7	550.2	594.8	677.8	947.2	1810.1	4715.4	9821.4	11040.4	11239.6
45°	496.6	533.6	577.0	676.5	879.5	1722.0	4683.5	10187.7	11461.7	11631.5
47.5°	480.0	520.8	583.4	653.6	862.9	1658.2	4655.4	10481.3	11805.1	11964.6
50°	468.5	517.0	620.4	626.8	868.0	1639.0	4790.7	10851.5	12107.6	12245.5
52.5°	459.5	518.3	619.1	587.2	859.1	1651.8	5072.8	11429.8	12527.6	12537.8
55°	441.7	517.0	587.2	542.5	822.1	1673.5	5435.3	12269.7	13185.0	13192.6
57.5°	423.8	502.9	545.1	504.2	746.8	1673.5	5871.9	13065.0	13977.7	13984.1
60°	405.9	523.4	478.7	471.0	648.5	1642.9	6332.7	13414.7	14226.6	14291.7
62.5°	388.1	527.2	427.6	441.7	577.0	1568.8	6676.1	13028.0	13889.6	13982.8
65°	367.6	425.1	394.4	411.0	540.0	1445.0	6567.6	12319.5	13256.4	13367.5
67.5°	343.4	360.0	358.7	379.1	527.2	1262.5	5995.7	11423.4	12574.8	12568.4
70°	314.0	323.0	326.8	348.5	502.9	1120.8	4996.2	10260.5	11664.7	11807.6
72.5°	283.4	291.0	294.9	314.0	478.7	1040.3	3878.0	8658.5	10103.5	10326.9
75°	250.2	255.3	260.4	277.0	453.2	921.6	2762.3	6609.7	7738.1	8089.2
77.5°	215.7	215.7	222.1	238.7	381.7	760.8	1853.5	4636.2	5242.6	5601.3
80°	174.9	176.2	173.6	191.5	280.8	520.8	1053.1	3096.8	3488.7	3557.6
82.5°	134.0	130.2	131.5	140.4	209.3	354.9	561.7	1923.7	1960.7	1922.4
85°	84.2	84.2	81.7	91.9	134.0	185.1	306.4	1178.2	920.4	875.7
87.5°	34.5	28.1	31.9	37.0	63.8	75.3	120.0	242.5	93.2	85.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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