

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: P452870

Luminaire Tested: **GALN-SA3D-760-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452870
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-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 16585 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

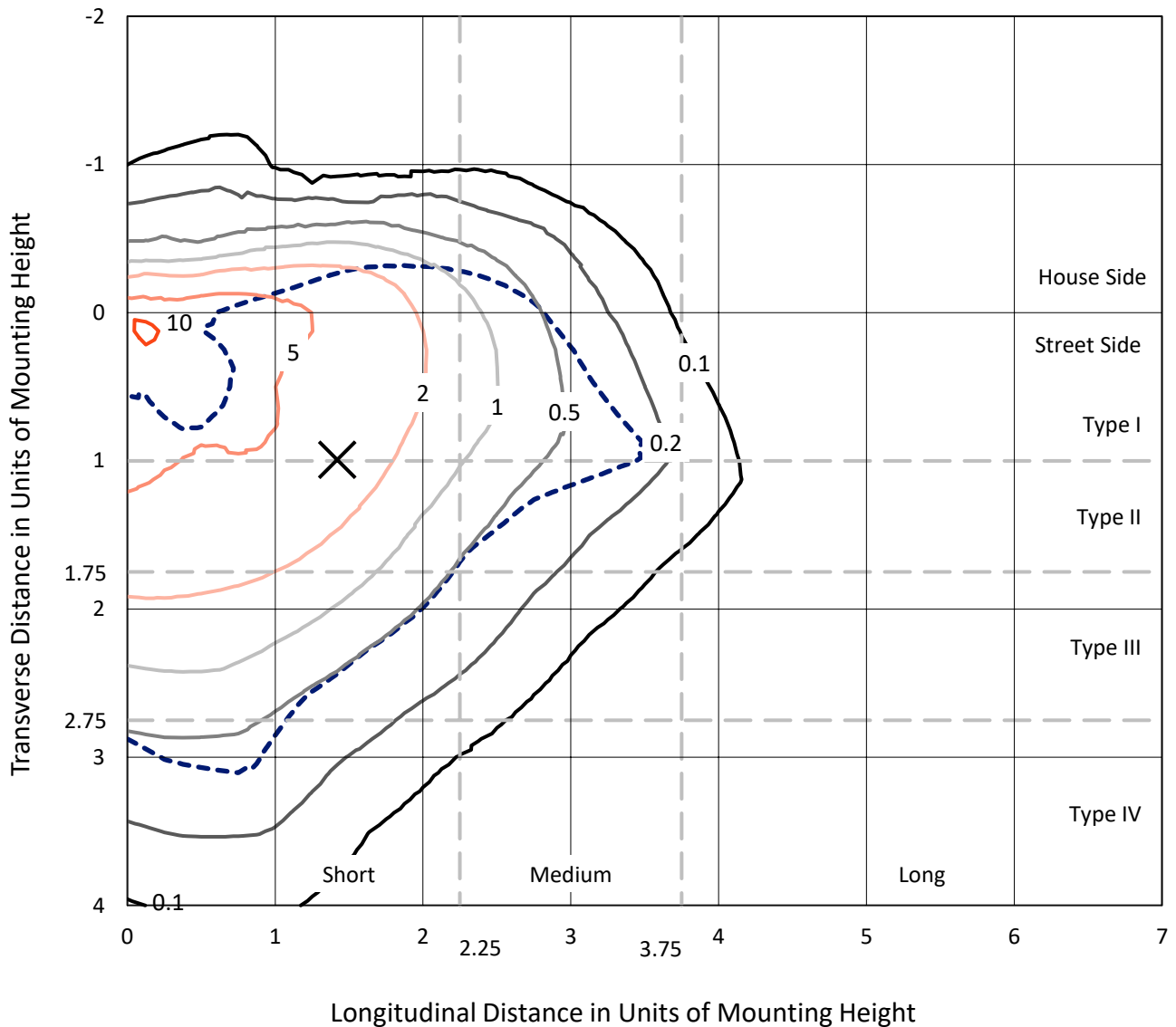
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

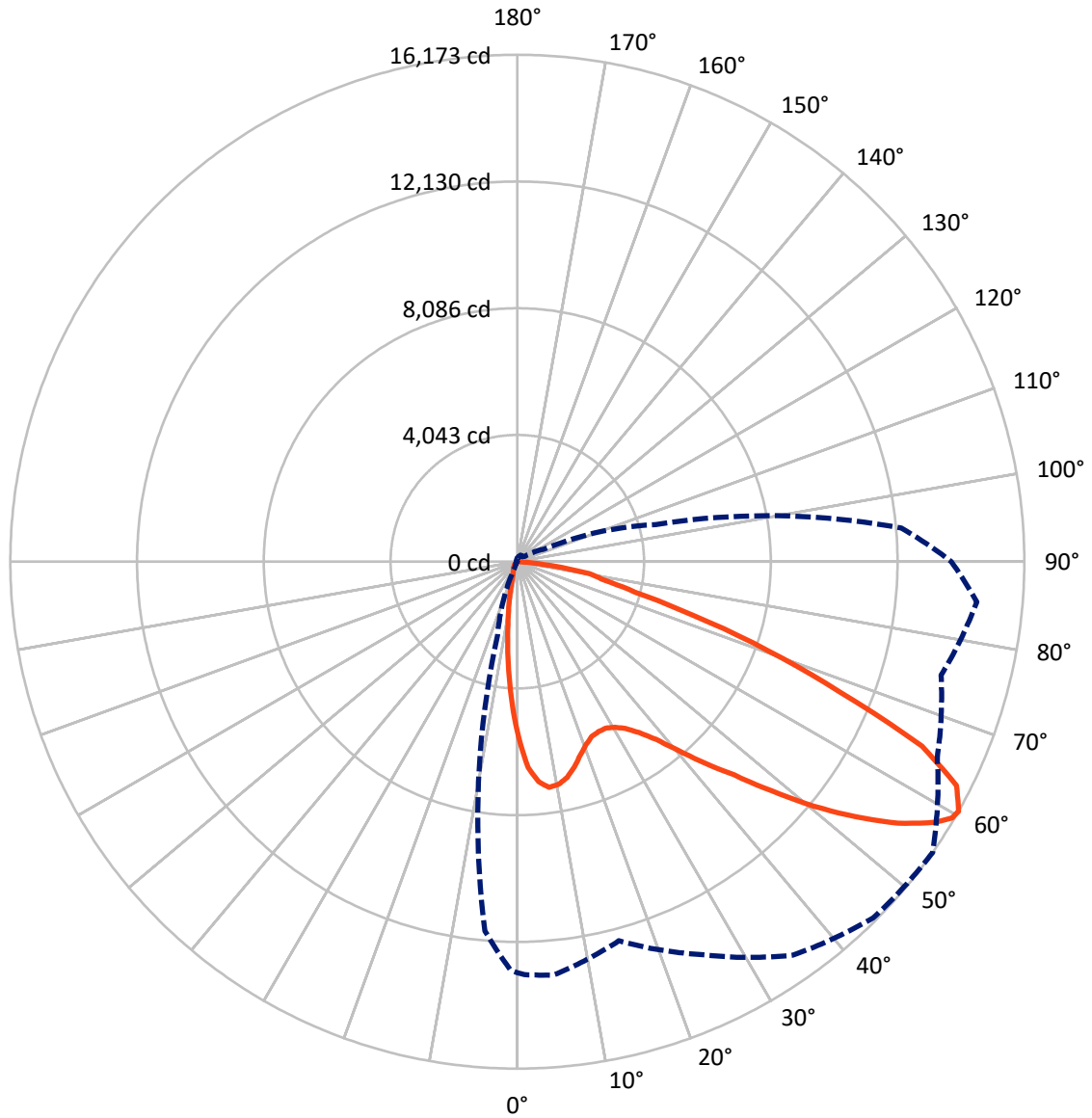
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	2461.4	0.0	2461.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	14123.6	0.0	14123.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	16585.0	0.0	16585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.8	2.5
10°-20°	818.9	4.9
20°-30°	1212.1	7.3
30°-40°	1806.8	10.9
40°-50°	2646.1	16.0
50°-60°	3820.1	23.0
60°-70°	4018.5	24.2
70°-80°	1653.1	10.0
80°-90°	193.6	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°	16585.0	100.0
0°-180°	16585.0	100.0

Coefficient of Utilization



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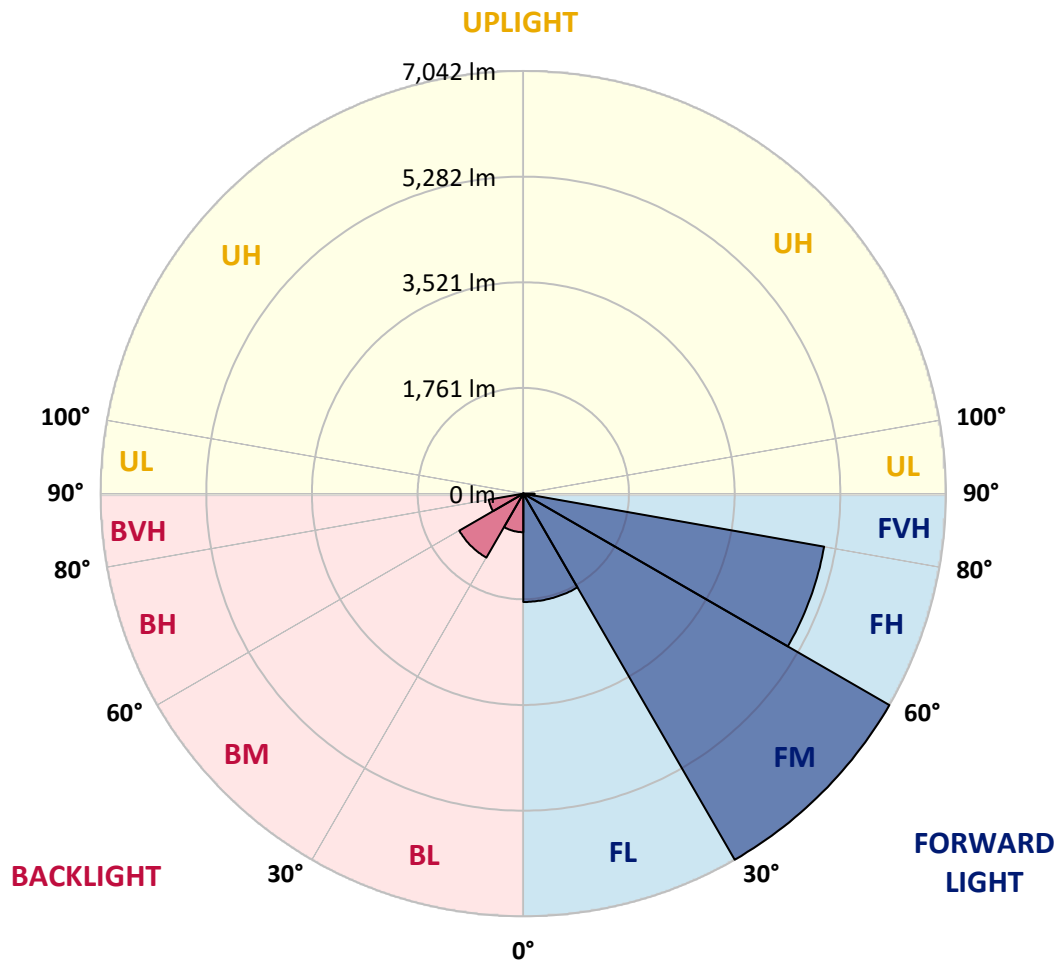
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1804.7	10.9			
FM	(30°-60°)	7042.0	42.5			
FH	(60°-80°)	5089.0	30.7			G3/7500
FVH	(80°-90°)	187.9	1.1			G2/225
BL	(0°-30°)	642.2	3.9	B2/1000		
BM	(30°-60°)	1230.9	7.4	B2/2500		
BH	(60°-80°)	582.6	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6
2.5°	6135.2	6125.0	6215.6	6363.7	6513.1	6590.9	6575.6	6569.2	6445.4	6354.8	6164.6
5°	6122.4	6174.8	6336.9	6737.7	7041.6	7188.4	7231.8	7049.2	6808.0	6458.2	6026.7
7.5°	5756.1	5821.2	6085.4	6712.2	7252.2	7571.3	7559.9	7267.5	6769.7	6228.4	5613.1
10°	5301.6	5378.2	5688.4	6449.2	7150.1	7571.3	7594.3	7224.1	6605.0	5910.5	5263.3
12.5°	4981.2	5071.8	5415.2	6204.1	6887.1	7302.0	7328.8	7060.7	6481.2	5788.0	5073.1
15°	4872.7	4958.2	5306.7	6080.3	6607.5	6830.9	6824.5	6796.5	6432.6	5817.3	5083.3
17.5°	5059.1	5129.3	5522.4	6136.5	6345.8	6322.9	6356.0	6491.4	6442.9	6063.7	5405.0
20°	5540.3	5611.8	6034.4	6308.8	6145.4	5999.9	6015.2	6241.2	6537.3	6527.1	5908.0
22.5°	6202.9	6324.1	6707.1	6643.3	6118.6	5799.5	5767.5	6061.2	6698.2	7060.7	6587.1
25°	7041.6	7164.1	7462.8	7176.9	6250.1	5752.2	5722.9	6006.3	6893.5	7581.6	7351.8
27.5°	7746.2	7839.4	8136.9	7696.4	6444.1	5772.7	5724.1	6013.9	7051.8	8024.5	7996.4
30°	8310.5	8379.4	8554.3	7939.0	6611.4	5862.0	5805.8	6126.3	7122.0	8240.3	8518.6
32.5°	8764.9	8881.1	8936.0	8198.1	6851.4	6030.5	5934.8	6342.0	7293.0	8507.1	9066.2
35°	9284.5	9418.5	9348.3	8445.8	7167.9	6293.5	6176.0	6691.8	7552.2	8753.4	9701.9
37.5°	9943.2	10097.7	9823.2	8706.2	7502.4	6689.2	6634.3	7183.3	7945.4	9105.8	10383.6
40°	10624.9	10714.3	10284.1	9022.8	7913.5	7265.0	7317.3	7913.5	8459.8	9528.3	11108.7
42.5°	11157.2	11241.5	10757.7	9288.3	8333.5	7947.9	8166.2	8794.3	9049.6	9961.1	11650.0
45°	11564.5	11635.9	11085.7	9578.1	8900.3	8937.3	9349.6	9701.9	9640.7	10225.3	12067.4
47.5°	11881.0	11942.3	11338.5	9889.6	9749.2	10147.5	10778.1	10927.4	10253.4	10511.3	12445.3
50°	12011.3	12029.1	11417.6	10286.6	10713.0	11689.6	12347.0	12256.4	10955.5	10829.2	12847.4
52.5°	12181.0	12177.2	11643.6	10664.5	11619.3	13068.3	13724.4	13518.9	11749.6	11305.3	13299.3
55°	12626.6	12631.7	12127.4	11200.6	12391.7	14181.4	14883.5	14734.2	12587.0	12109.6	13826.5
57.5°	13167.8	13187.0	12815.5	11827.4	13129.5	14988.2	15749.1	15691.6	13719.3	13004.4	14324.4
59°	13238.0	13276.3	13141.0	12269.1	13567.4	15235.9	16045.2	16101.4	14325.7	13594.2	14593.8
60°	13110.4	13174.2	13235.5	12519.3	13824.0	15325.2	16063.1	16172.9	14781.4	13995.0	14716.3
62.5°	12553.8	12654.6	12962.3	13289.1	14144.4	15046.9	15492.5	15722.2	15345.7	15048.2	14727.8
65°	11824.9	11877.2	12321.5	13425.7	13522.7	13747.4	13885.3	14180.1	14667.8	15454.2	14200.6
67.5°	10630.0	10784.5	11328.3	12632.9	11688.3	11422.8	11388.3	11094.7	12361.0	14486.5	12901.0
70°	8781.5	8850.5	9520.7	10356.8	8821.1	8412.6	8576.0	8466.2	9581.9	12470.8	10383.6
72.5°	6640.7	6796.5	7451.3	8255.6	6002.4	5472.7	5923.3	5882.4	7197.3	10022.4	7133.5
75°	4724.6	4825.4	5660.3	6460.7	4203.7	3561.6	3723.8	3875.7	5024.6	7913.5	4215.2
77.5°	3246.3	3333.1	3959.9	4272.7	3066.3	2937.4	2687.2	2834.0	3292.3	4695.2	2294.0
80°	1958.3	1954.4	2366.8	2443.4	2135.7	2480.4	2080.8	2336.1	1990.2	2009.3	888.5
82.5°	1271.5	1258.7	1447.6	1577.8	1188.5	1249.8	838.7	1208.9	1297.0	560.4	280.8
85°	569.4	593.6	695.7	917.9	520.8	277.0	171.1	371.5	552.8	282.1	0.0
87.5°	58.7	46.0	122.6	223.4	71.5	7.7	25.5	12.8	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°	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6
2.5°	6076.5	6002.4	5781.6	5574.8	5397.3	5180.3	5039.9	4819.1	4685.0	4644.2	4650.5
5°	5832.7	5619.5	5199.5	4863.7	4489.7	4276.5	3952.3	3640.8	3472.3	3409.7	3381.6
7.5°	5322.0	5093.5	4586.7	4059.5	3658.7	3284.6	3043.3	2768.9	2581.2	2426.8	2400.0
10°	4942.9	4642.9	4014.8	3448.0	3131.4	2850.6	2609.3	2334.8	2114.0	1937.8	1889.3
12.5°	4715.7	4379.9	3679.1	3204.2	2904.2	2615.7	2301.7	1983.8	1757.8	1567.6	1479.5
15°	4674.8	4285.4	3584.6	3029.3	2659.1	2310.6	1893.2	1549.8	1317.4	1137.4	1082.5
17.5°	4921.2	4455.2	3570.6	2846.8	2338.7	1844.6	1410.6	1125.9	864.2	763.4	723.8
20°	5360.3	4755.2	3569.3	2634.8	2009.3	1420.8	990.6	734.0	628.1	579.6	556.6
22.5°	5959.0	5163.7	3637.0	2452.3	1667.2	1048.1	707.2	584.7	523.4	483.8	474.9
25°	6690.5	5768.8	3802.9	2328.5	1405.5	822.1	583.4	500.4	449.4	431.5	423.8
27.5°	7340.3	6348.4	3985.5	2200.8	1217.8	727.6	541.3	458.3	417.4	403.4	391.9
30°	7900.7	6874.3	4073.5	2032.3	1067.2	666.4	548.9	490.2	436.6	394.5	375.3
32.5°	8367.9	7277.7	4131.0	1879.1	939.6	545.1	434.0	379.1	354.9	339.6	326.8
35°	8952.6	7714.3	4096.5	1792.3	874.5	496.6	395.7	326.8	286.0	255.3	242.5
37.5°	9565.3	8150.9	4036.5	1720.8	845.1	460.8	376.6	310.2	265.5	233.6	217.0
40°	10199.8	8555.6	3966.3	1654.4	818.3	437.9	365.1	296.2	251.5	217.0	199.1
42.5°	10780.6	8950.0	3938.2	1611.0	774.9	441.7	356.2	289.8	237.4	201.7	186.4
45°	11250.4	9324.1	3976.5	1588.1	727.6	435.3	358.7	282.1	226.0	191.5	176.2
47.5°	11752.1	9852.6	4100.3	1565.1	681.7	404.7	377.9	280.8	220.8	185.1	168.5
50°	12335.5	10529.2	4383.7	1508.9	625.5	371.5	402.1	279.6	214.5	177.4	160.8
52.5°	13112.9	11297.7	4676.1	1410.6	543.8	339.6	384.2	275.7	201.7	168.5	151.9
55°	13811.2	12107.0	4923.7	1294.4	440.4	293.6	346.0	259.1	180.0	153.2	137.9
57.5°	14099.7	12564.0	4916.1	1133.6	352.3	257.9	284.7	237.4	157.0	135.3	122.6
59°	13993.8	12506.6	4751.4	1014.9	321.7	238.7	236.2	234.9	146.8	122.6	112.3
60°	13844.4	12297.2	4574.0	956.2	302.5	226.0	217.0	232.3	137.9	114.9	104.7
62.5°	13272.5	11429.1	3985.5	856.6	277.0	191.5	173.6	196.6	122.6	99.6	90.6
65°	12444.0	10095.1	3374.0	828.5	269.4	158.3	144.3	140.4	104.7	84.3	76.6
67.5°	10827.9	8542.8	2733.1	809.3	271.9	132.8	126.4	106.0	86.8	70.2	65.1
70°	8669.2	6661.1	2237.8	787.6	274.5	108.5	106.0	84.3	70.2	58.7	53.6
72.5°	5267.1	3948.4	1761.7	684.2	266.8	86.8	94.5	63.8	51.1	42.1	39.6
75°	3256.5	2702.5	1092.7	532.3	176.2	63.8	66.4	39.6	34.5	26.8	26.8
77.5°	1886.8	1706.8	390.6	191.5	77.9	38.3	29.4	20.4	19.1	11.5	11.5
80°	782.5	626.8	135.3	65.1	42.1	17.9	6.4	1.3	0.0	0.0	0.0
82.5°	228.5	203.0	37.0	29.4	12.8	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°	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6
2.5°	4542.0	4499.9	4480.8	4545.9	4485.9	4562.5	4503.7	4529.3	4604.6	4637.8	4723.3
5°	3399.5	3356.1	3335.7	3434.0	3428.9	3477.4	3472.3	3517.0	3555.2	3469.7	3557.8
7.5°	2368.0	2338.7	2387.2	2463.8	2545.5	2518.7	2518.7	2458.7	2479.1	2466.3	2462.5
10°	1801.2	1700.4	1674.9	1672.3	1702.9	1709.3	1674.9	1591.9	1622.5	1631.5	1685.1
12.5°	1417.0	1339.1	1220.4	1166.8	1152.7	1164.2	1050.6	977.9	1012.3	991.9	1044.2
15°	1016.2	952.3	882.1	822.1	805.5	782.5	658.7	571.9	561.7	565.5	574.5
17.5°	725.1	681.7	681.7	617.9	583.4	514.5	451.9	413.6	409.8	413.6	420.0
20°	534.9	511.9	509.4	492.8	454.5	408.5	365.1	357.4	354.9	361.3	363.8
22.5°	460.8	436.6	416.2	414.9	379.1	340.8	320.4	310.2	311.5	314.0	320.4
25°	412.3	386.8	365.1	352.3	326.8	300.0	280.8	275.7	275.7	279.6	280.8
27.5°	377.9	346.0	326.8	308.9	286.0	263.0	246.4	242.5	240.0	242.5	248.9
30°	353.6	321.7	297.4	270.6	252.8	231.1	217.0	211.9	210.6	211.9	217.0
32.5°	302.5	283.4	264.3	240.0	218.3	204.3	188.9	180.0	180.0	182.5	187.7
35°	228.5	218.3	217.0	210.6	192.8	177.4	159.6	150.6	150.6	155.7	158.3
37.5°	201.7	182.5	180.0	177.4	169.8	149.4	132.8	125.1	123.8	127.7	132.8
40°	183.8	162.1	150.6	148.1	149.4	126.4	108.5	100.8	100.8	102.1	107.2
42.5°	169.8	144.3	123.8	121.3	126.4	106.0	88.1	80.4	80.4	80.4	86.8
45°	158.3	128.9	104.7	91.9	99.6	86.8	71.5	63.8	61.3	63.8	66.4
47.5°	150.6	117.4	91.9	74.0	74.0	68.9	57.4	48.5	46.0	47.2	51.1
50°	144.3	107.2	77.9	60.0	53.6	54.9	43.4	37.0	34.5	34.5	38.3
52.5°	134.0	97.0	67.7	51.1	40.9	37.0	31.9	26.8	25.5	26.8	29.4
55°	121.3	88.1	58.7	42.1	31.9	25.5	23.0	19.1	17.9	19.1	23.0
57.5°	107.2	74.0	47.2	33.2	21.7	16.6	15.3	12.8	10.2	11.5	14.0
59°	98.3	66.4	40.9	26.8	16.6	11.5	11.5	8.9	6.4	7.7	11.5
60°	94.5	61.3	34.5	23.0	14.0	8.9	8.9	6.4	3.8	5.1	8.9
62.5°	80.4	51.1	26.8	14.0	6.4	1.3	3.8	1.3	0.0	1.3	3.8
65°	67.7	40.9	17.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0	1.3
67.5°	56.2	30.6	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	44.7	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	30.6	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.7	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: P452870
 CATALOG NUMBER: GALN-SA3D-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6	5615.6
2.5°	4728.4	4911.0	5023.3	5235.2	5452.2	5619.5	5828.8	6016.5	6094.3	6135.2
5°	3647.2	3901.2	4116.9	4439.9	4739.9	5105.0	5475.2	5911.8	6079.0	6122.4
7.5°	2559.5	2818.7	3044.6	3418.7	3846.3	4335.2	4889.3	5443.3	5687.1	5756.1
10°	1848.5	2125.5	2401.2	2775.3	3174.8	3704.6	4281.6	4967.1	5248.0	5301.6
12.5°	1166.8	1464.2	1912.3	2374.4	2797.0	3223.3	3827.2	4572.7	4882.9	4981.2
15°	676.6	898.7	1237.0	1839.5	2377.0	2941.2	3599.9	4424.6	4771.8	4872.7
17.5°	453.2	529.8	762.1	1223.0	1932.7	2680.8	3542.5	4545.9	4930.1	5059.1
20°	381.7	416.2	497.9	745.5	1488.5	2448.5	3557.8	4875.2	5379.5	5540.3
22.5°	335.7	367.7	420.0	536.2	1039.1	2160.0	3630.6	5346.3	5997.3	6202.9
25°	296.2	328.1	374.0	444.2	698.3	1826.8	3790.1	6035.6	6815.6	7041.6
27.5°	263.0	292.3	331.9	391.9	537.4	1455.3	3931.8	6707.1	7562.4	7746.2
30°	232.3	256.6	294.9	340.8	446.8	1122.1	4003.3	7294.3	8106.2	8310.5
32.5°	201.7	224.7	261.7	298.7	367.7	855.3	3953.5	7725.8	8634.7	8764.9
35°	172.3	196.6	227.2	261.7	317.9	690.6	3704.6	8210.9	9182.4	9284.5
37.5°	148.1	168.5	200.4	227.2	287.2	552.8	3403.3	8647.5	9796.4	9943.2
40°	125.1	145.5	177.4	201.7	264.3	435.3	3131.4	9132.6	10443.6	10624.9
42.5°	102.1	126.4	154.5	194.0	227.2	331.9	2802.1	9525.8	10930.0	11157.2
45°	81.7	108.5	139.1	192.8	197.9	252.8	2484.2	9832.1	11360.2	11564.5
47.5°	65.1	91.9	134.0	180.0	162.1	200.4	2302.9	10152.6	11717.6	11881.0
50°	52.3	76.6	140.4	158.3	135.3	169.8	2297.8	10510.0	11902.7	12011.3
52.5°	42.1	62.6	118.7	121.3	114.9	149.4	2435.7	10912.1	12091.7	12181.0
55°	35.7	52.3	77.9	89.4	103.4	135.3	2539.1	11531.3	12542.3	12626.6
57.5°	28.1	44.7	60.0	71.5	91.9	123.8	2553.1	12008.7	13112.9	13167.8
59°	24.3	38.3	53.6	63.8	84.3	116.2	2495.7	12038.1	13150.0	13238.0
60°	20.4	34.5	47.2	60.0	77.9	109.8	2433.1	11824.9	13012.1	13110.4
62.5°	15.3	26.8	34.5	48.5	63.8	94.5	2137.0	11080.6	12484.9	12553.8
65°	10.2	19.1	25.5	35.7	49.8	81.7	1741.2	10115.5	11670.4	11824.9
67.5°	6.4	14.0	20.4	26.8	40.9	68.9	1240.8	8674.3	10530.4	10630.0
70°	3.8	8.9	15.3	21.7	31.9	54.9	736.6	6856.5	8761.1	8781.5
72.5°	2.6	6.4	10.2	15.3	25.5	49.8	357.4	4469.3	6396.9	6640.7
75°	1.3	3.8	6.4	11.5	20.4	40.9	171.1	2985.9	4654.4	4724.6
77.5°	0.0	1.3	3.8	7.7	15.3	31.9	99.6	1960.8	3173.6	3246.3
80°	0.0	0.0	2.6	6.4	11.5	20.4	60.0	1156.6	1922.5	1958.3
82.5°	0.0	0.0	1.3	5.1	7.7	15.3	30.6	508.1	1258.7	1271.5
85°	0.0	0.0	1.3	5.1	6.4	10.2	11.5	68.9	559.1	569.4
87.5°	0.0	0.0	1.3	6.4	6.4	6.4	6.4	3.8	47.2	58.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)