

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: P533903

Luminaire Tested: **GALN-SA9B-760-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-760-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28518 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

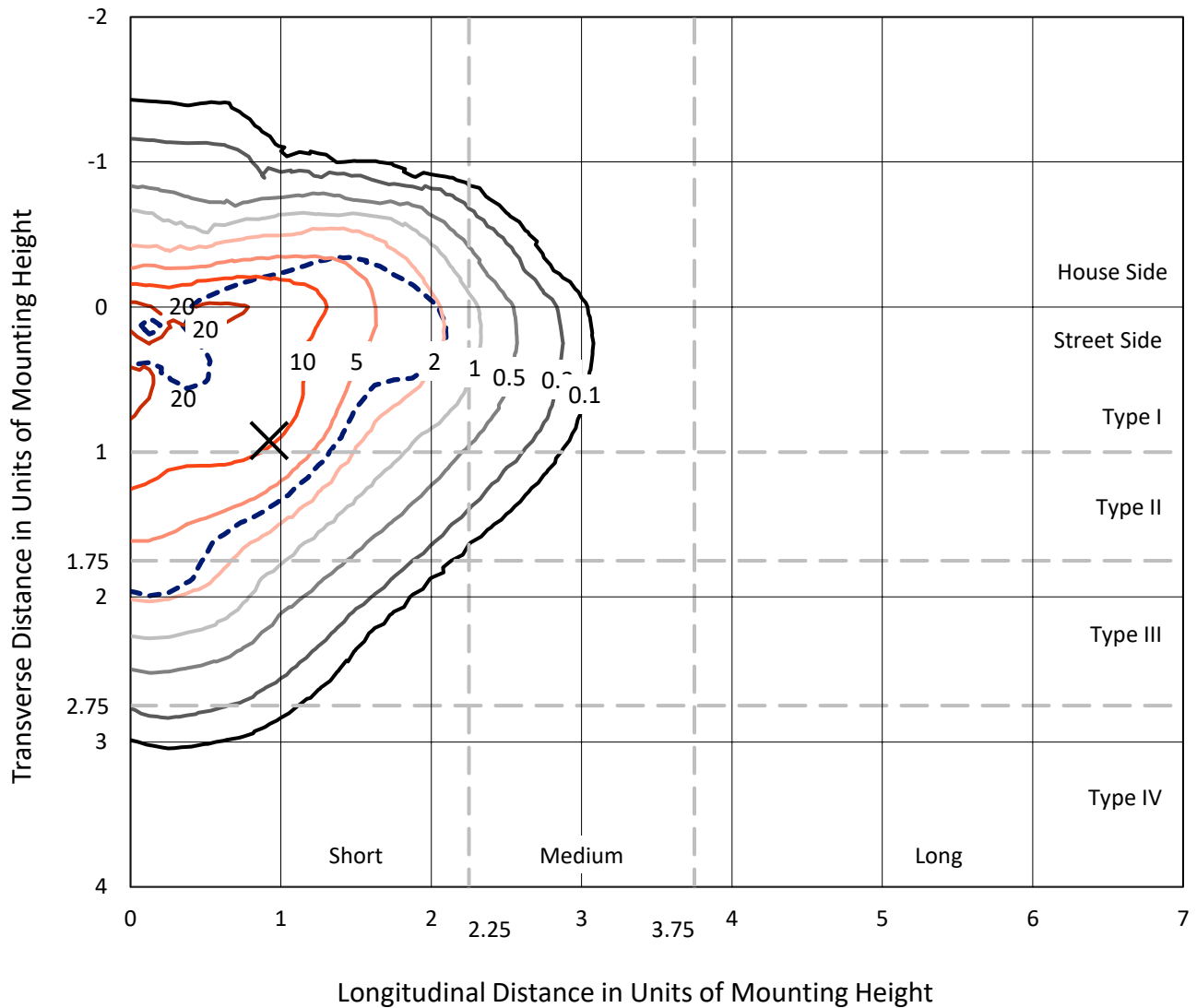
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

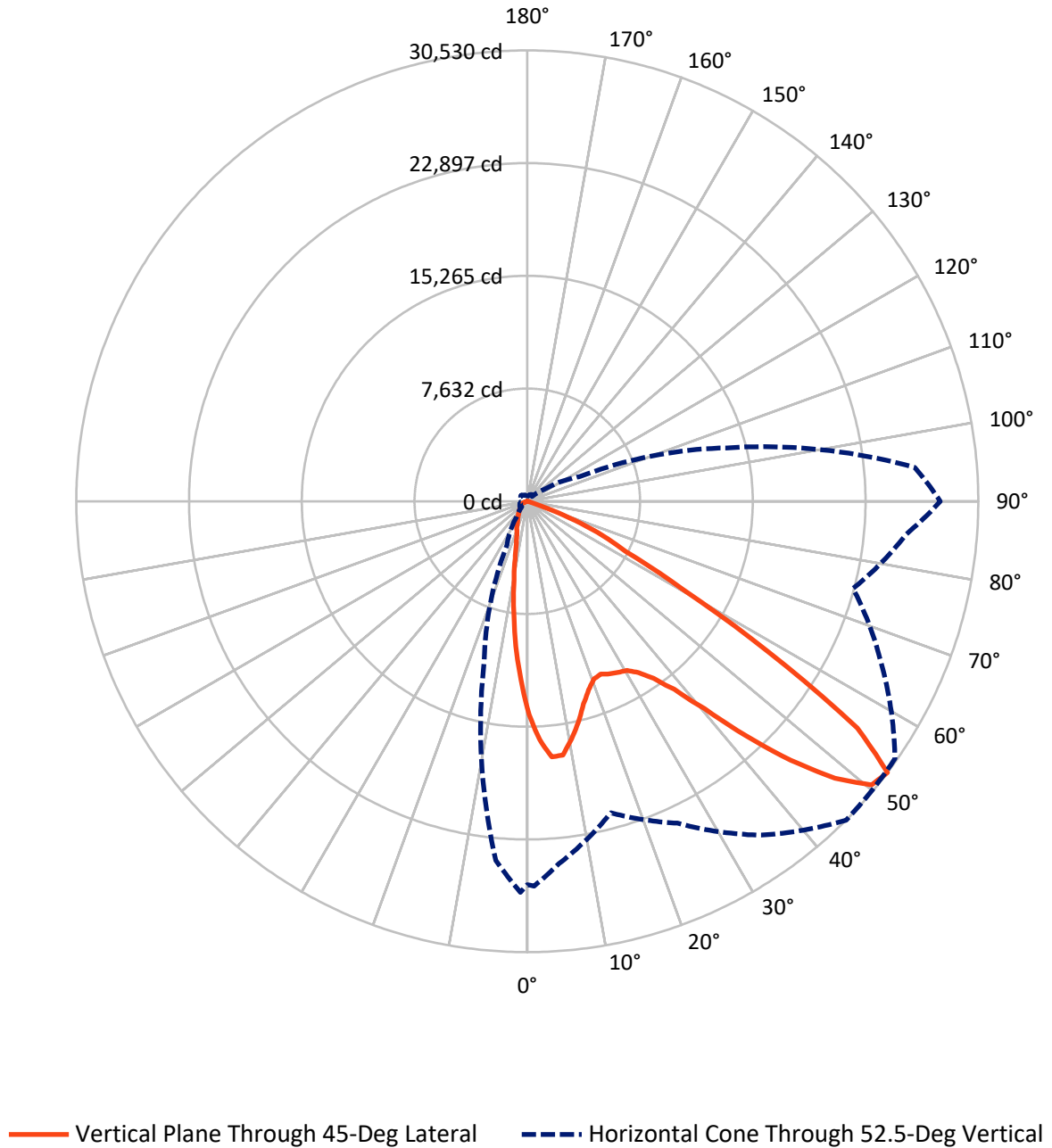
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25 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	5787.7	0.0	5787.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	22730.3	0.0	22730.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	28518.0	0.0	28518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1054.5	3.7
10°-20°	2080.6	7.3
20°-30°	3166.3	11.1
30°-40°	4732.4	16.6
40°-50°	6739.4	23.6
50°-60°	7244.6	25.4
60°-70°	3210.2	11.3
70°-80°	259.7	0.9
80°-90°	30.3	0.1
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°	28518.0	100.0
0°-180°	28518.0	100.0

Coefficient of Utilization

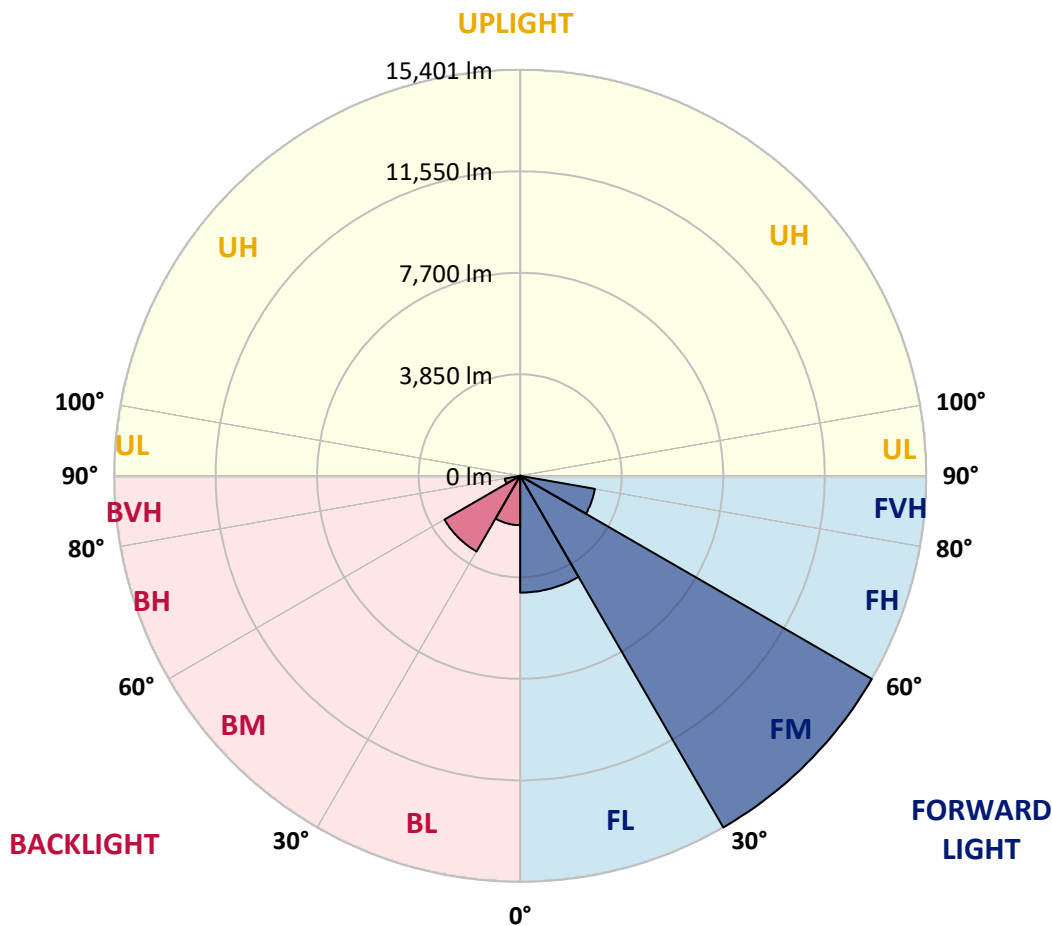


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4429.4	15.5			
FM (30°-60°)	15400.6	54.0			
FH (60°-80°)	2877.8	10.1			G2/5000
FVH (80°-90°)	22.4	0.1			G1/100
BL (0°-30°)	1872.0	6.6	B3/2500		
BM (30°-60°)	3315.7	11.6	B3/5000		
BH (60°-80°)	592.2	2.1	B2/1000		G2/1000
BVH (80°-90°)	7.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0
2.5°	15301.3	15346.2	15593.0	15901.5	16064.1	16434.3	16176.3	16243.6	16103.4	15609.8	15222.8
5°	14835.8	14830.1	15144.2	15907.1	16630.6	17365.4	17387.8	16995.2	16305.3	15548.1	14465.6
7.5°	13433.5	13652.3	13977.6	15194.7	16535.3	17085.0	17348.6	16888.6	15828.5	14746.0	13573.7
10°	12373.4	12485.6	13035.3	14504.8	15486.4	16221.2	16383.8	16120.2	15306.9	13955.1	12642.6
12.5°	11762.0	11818.1	12463.2	13697.1	14734.8	15278.9	15357.4	15480.8	14897.5	13629.8	12053.7
15°	11767.6	11812.5	12681.9	13714.0	14123.4	13977.6	14235.6	14230.0	14482.4	13568.1	12547.3
17.5°	12614.6	12665.1	13450.3	13960.8	13781.3	13439.1	13422.3	13680.3	14213.2	14336.6	13293.3
20°	14072.9	14190.7	14768.4	14740.4	13730.8	13040.9	12850.2	13046.5	14286.1	14987.2	14796.5
22.5°	16036.1	16198.7	16602.6	15828.5	13960.8	12771.6	12709.9	13091.4	14768.4	16439.9	16501.6
25°	18313.3	18588.2	18784.5	17791.7	14779.7	13237.2	12945.5	13601.8	15419.1	18016.0	18672.3
27.5°	19822.1	20108.2	20063.3	18644.3	15329.3	13360.6	13113.8	13725.2	15985.6	18391.8	19805.3
30°	21000.0	21173.9	21488.0	19104.2	15879.0	13708.3	13287.7	14246.8	16170.7	19042.5	21173.9
32.5°	22374.2	22492.0	22514.4	19917.5	16726.0	14145.8	13826.1	14897.5	16989.6	19665.1	22385.4
35°	23759.6	23933.5	23568.9	20921.5	17247.6	14959.2	14723.6	16024.9	17645.9	20310.1	23720.4
37.5°	25262.8	25352.6	24511.2	21336.6	17993.6	16282.9	16153.9	17242.0	18784.5	21476.8	25201.1
40°	26524.9	26609.0	25515.3	21847.0	18778.9	18133.8	18464.8	19564.1	20332.6	22234.0	25941.5
42.5°	27226.0	27422.3	25851.8	21566.5	20355.0	20231.6	21701.1	22088.2	22127.4	22447.1	26603.4
45°	27416.7	27327.0	25296.5	21796.5	21734.8	23681.1	25016.1	25526.5	23911.1	22839.8	26771.7
47.5°	26536.1	26653.9	24477.6	21594.6	23546.5	26294.9	28022.5	28970.4	25240.4	22497.6	26356.6
50°	25823.7	25672.3	24214.0	21448.7	24034.5	27528.9	30193.1	30406.3	26463.2	22918.3	25902.3
52.5°	25964.0	26059.3	24634.6	21835.8	24045.7	27601.8	30529.7	30383.8	26502.4	22822.9	25739.6
55°	26261.2	25840.6	24455.2	20983.2	22435.9	25565.7	27097.0	26872.6	24460.8	21807.7	25341.4
57.5°	22660.3	23310.9	22486.4	18734.0	18414.3	19261.2	19233.2	19923.1	18246.0	18767.6	23069.7
60°	18391.8	18504.0	18812.5	16024.9	12743.6	12451.9	12048.1	11610.6	12278.1	16047.3	20983.2
62.5°	16176.3	16041.7	17141.0	14577.7	8996.8	7532.9	7465.6	7734.8	9473.6	15306.9	19681.9
65°	11756.4	11924.7	12721.2	11313.3	6753.2	5749.2	5648.2	6444.7	7667.5	12266.8	15020.8
67.5°	7179.5	7504.8	7577.7	6977.6	4582.5	3640.2	3494.4	4218.0	5536.1	7936.7	8806.1
70°	3314.9	3707.5	4077.7	3808.5	2653.0	1497.6	1413.5	1772.4	2793.3	4565.7	4672.3
72.5°	1004.0	1009.6	1413.5	1475.2	858.2	336.5	297.3	392.6	947.9	1508.8	1587.3
75°	72.9	78.5	190.7	218.8	162.7	84.1	89.7	106.6	201.9	336.5	252.4
77.5°	5.6	5.6	5.6	28.0	50.5	56.1	72.9	84.1	106.6	123.4	112.2
80°	5.6	0.0	5.6	22.4	39.3	56.1	67.3	78.5	84.1	95.4	84.1
82.5°	0.0	0.0	0.0	16.8	39.3	56.1	61.7	84.1	95.4	112.2	95.4
85°	0.0	0.0	0.0	16.8	39.3	61.7	56.1	28.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0
2.5°	15290.1	15071.3	14572.1	14319.7	13725.2	13641.0	13057.7	12962.4	12766.0	12659.5	12401.5
5°	13988.8	13725.2	12911.9	12227.6	11431.1	10875.8	10449.5	10062.5	9838.2	9630.6	9726.0
7.5°	12928.7	12160.3	11257.2	10113.0	9193.1	8598.6	7947.9	7415.1	7101.0	6887.8	6938.3
10°	11818.1	11318.9	10062.5	8778.1	7667.5	7246.8	6736.4	6326.9	5883.8	5502.4	5322.9
12.5°	11470.4	10730.0	9153.9	7847.0	7005.6	6596.2	6012.8	5541.7	4975.2	4509.6	4347.0
15°	11532.1	10819.7	8907.1	7510.4	6517.6	5810.9	5115.4	4532.1	3909.5	3584.1	3415.9
17.5°	12536.1	11302.1	9069.7	7157.1	5838.9	4857.4	3999.2	3258.8	2793.3	2456.7	2383.8
20°	13770.0	12345.4	9417.5	6899.0	5283.7	3864.6	2922.3	2282.9	1895.8	1839.7	1822.9
22.5°	15576.1	14050.5	10163.5	6725.2	4605.0	3012.0	2002.4	1660.3	1553.7	1542.5	1548.1
25°	18100.2	16187.5	10976.8	6579.3	4094.6	2322.1	1637.8	1407.9	1374.2	1357.4	1385.4
27.5°	19193.9	17477.6	11408.7	6265.2	3629.0	2092.1	1615.4	1396.6	1301.3	1273.2	1290.1
30°	20545.7	18335.8	12087.4	5726.8	2944.7	1722.0	1508.8	1520.0	1475.2	1334.9	1290.1
32.5°	22340.6	19407.1	12429.5	5345.4	2630.6	1424.7	1105.0	1015.2	1133.0	1155.4	1194.7
35°	23490.4	20495.2	12603.4	5121.0	2468.0	1217.1	936.7	852.6	824.5	830.1	852.6
37.5°	25627.4	21964.8	12822.1	4885.4	2344.6	1060.1	847.0	768.4	729.2	729.2	751.6
40°	26906.3	23131.4	13119.4	4756.4	2221.2	964.7	768.4	701.1	667.5	667.5	678.7
42.5°	27226.0	23709.2	13018.4	4711.5	2080.9	942.3	701.1	650.6	611.4	605.8	600.2
45°	27798.1	24589.8	13035.3	4661.1	1935.1	858.2	661.9	605.8	549.7	544.1	538.5
47.5°	28426.3	25223.6	13068.9	4464.7	1794.9	717.9	689.9	560.9	493.6	482.4	482.4
50°	27887.9	25728.4	13360.6	4268.4	1615.4	583.3	678.7	527.2	437.5	420.7	426.3
52.5°	27955.2	26322.9	13977.6	3993.6	1391.0	465.5	549.7	499.2	398.2	370.2	375.8
55°	26878.2	25694.7	14061.7	3701.9	1088.1	359.0	420.7	437.5	336.5	325.3	325.3
57.5°	23137.0	21757.2	12407.1	3000.8	717.9	297.3	302.9	381.4	291.7	280.4	286.1
60°	19799.7	17466.4	9984.0	1980.0	448.7	235.6	218.8	387.0	258.0	252.4	269.2
62.5°	18049.7	14353.4	7572.1	1228.4	308.5	179.5	151.4	314.1	224.4	224.4	246.8
65°	13040.9	9641.8	4403.0	645.0	218.8	140.2	112.2	179.5	185.1	190.7	201.9
67.5°	8076.9	4868.6	1856.6	314.1	145.8	95.4	72.9	112.2	123.4	123.4	134.6
70°	3988.0	1940.7	617.0	179.5	112.2	78.5	50.5	61.7	61.7	56.1	61.7
72.5°	1234.0	583.3	157.1	112.2	78.5	50.5	28.0	22.4	11.2	0.0	5.6
75°	140.2	112.2	101.0	78.5	50.5	22.4	5.6	0.0	0.0	0.0	0.0
77.5°	84.1	95.4	95.4	78.5	50.5	16.8	0.0	0.0	0.0	0.0	0.0
80°	67.3	72.9	78.5	72.9	44.9	22.4	0.0	0.0	0.0	0.0	0.0
82.5°	84.1	95.4	106.6	95.4	61.7	28.0	11.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	16.8	5.6	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°	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0
2.5°	12294.9	12171.5	12345.4	12087.4	12081.7	12087.4	12014.4	11947.1	12053.7	12339.8	12367.8
5°	9383.8	9647.4	9731.6	10006.4	9855.0	9630.6	9675.5	9524.0	9894.2	10056.9	9927.9
7.5°	6831.7	6814.9	7381.4	7415.1	7488.0	7493.6	7482.4	7185.1	6882.2	6949.5	7151.5
10°	5300.5	5014.4	5289.3	5261.2	5440.7	5390.2	5463.1	5143.4	5250.0	5250.0	5379.0
12.5°	4318.9	4016.0	3965.5	3892.6	3965.5	3993.6	4021.6	3959.9	4139.4	4223.6	4313.3
15°	3298.1	3129.8	3084.9	2944.7	2967.2	3045.7	3113.0	3141.0	3084.9	3213.9	3225.2
17.5°	2395.0	2389.4	2417.5	2411.9	2389.4	2372.6	2367.0	2294.1	2271.6	2282.9	2327.7
20°	1817.3	1862.2	1957.5	2052.9	2103.4	2041.7	1957.5	1834.1	1783.7	1794.9	1800.5
22.5°	1553.7	1621.0	1750.0	1856.6	1907.1	1794.9	1643.4	1536.9	1514.4	1508.8	1503.2
25°	1407.9	1486.4	1581.7	1615.4	1609.8	1542.5	1430.3	1385.4	1374.2	1363.0	1312.5
27.5°	1329.3	1357.4	1374.2	1413.5	1430.3	1385.4	1357.4	1290.1	1278.8	1278.8	1245.2
30°	1284.5	1267.6	1290.1	1262.0	1284.5	1250.8	1256.4	1256.4	1228.4	1239.6	1239.6
32.5°	1194.7	1200.3	1200.3	1144.2	1161.1	1121.8	1161.1	1194.7	1200.3	1205.9	1250.8
35°	875.0	976.0	1026.4	1026.4	1043.3	1015.2	1009.6	970.4	919.9	869.4	847.0
37.5°	768.4	807.7	875.0	914.3	942.3	919.9	869.4	807.7	779.6	757.2	734.8
40°	684.3	717.9	762.8	807.7	863.8	835.7	757.2	729.2	695.5	695.5	673.1
42.5°	617.0	633.8	661.9	729.2	790.9	734.8	678.7	656.3	639.4	633.8	628.2
45°	555.3	560.9	588.9	645.0	717.9	661.9	605.8	577.7	583.3	588.9	583.3
47.5°	499.2	510.4	527.2	594.6	639.4	611.4	549.7	532.9	532.9	532.9	538.5
50°	431.9	459.9	493.6	549.7	583.3	566.5	516.0	493.6	482.4	482.4	488.0
52.5°	387.0	409.5	454.3	521.6	566.5	538.5	488.0	454.3	431.9	426.3	437.5
55°	336.5	375.8	448.7	499.2	560.9	532.9	476.8	437.5	398.2	392.6	392.6
57.5°	302.9	364.6	431.9	493.6	544.1	521.6	476.8	426.3	375.8	370.2	370.2
60°	286.1	353.4	420.7	476.8	544.1	510.4	471.2	415.1	359.0	359.0	353.4
62.5°	269.2	330.9	398.2	454.3	521.6	493.6	454.3	398.2	342.1	342.1	330.9
65°	224.4	286.1	330.9	381.4	454.3	426.3	387.0	347.8	302.9	291.7	297.3
67.5°	157.1	196.3	241.2	291.7	336.5	325.3	308.5	280.4	241.2	235.6	230.0
70°	78.5	106.6	145.8	196.3	235.6	224.4	213.1	190.7	168.3	162.7	162.7
72.5°	11.2	33.7	61.7	89.7	123.4	129.0	123.4	117.8	112.2	106.6	112.2
75°	0.0	0.0	0.0	22.4	50.5	61.7	72.9	84.1	84.1	72.9	89.7
77.5°	0.0	0.0	0.0	0.0	5.6	28.0	56.1	72.9	89.7	78.5	106.6
80°	0.0	0.0	0.0	0.0	5.6	33.7	56.1	78.5	89.7	78.5	112.2
82.5°	0.0	0.0	0.0	0.0	5.6	39.3	56.1	72.9	84.1	78.5	101.0
85°	0.0	0.0	0.0	0.0	16.8	33.7	22.4	11.2	5.6	5.6	16.8
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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CATALOG NUMBER: GALN-SA9B-760-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0	14460.0
2.5°	12524.9	12923.1	13349.4	13512.0	14016.8	14398.3	14656.3	15211.6	15295.7	15301.3
5°	10062.5	10264.4	10993.6	11335.7	12087.4	12670.7	13293.3	14190.7	14790.9	14835.8
7.5°	7151.5	7712.3	8020.8	8912.7	9838.2	10752.4	11677.9	12721.2	13416.7	13433.5
10°	5754.8	6119.4	6669.1	7336.5	8116.2	9047.3	10281.3	11492.8	12199.5	12373.4
12.5°	4633.0	5272.4	5900.6	6590.6	7185.1	7886.2	9215.6	10830.9	11414.3	11762.0
15°	3567.3	4150.6	4891.0	5698.7	6371.8	7308.5	8822.9	10668.3	11649.9	11767.6
17.5°	2630.6	3152.2	3836.5	4599.4	5609.0	6938.3	8890.2	11492.8	12418.3	12614.6
20°	1890.2	2193.1	2731.6	3617.8	4902.2	6506.4	8957.5	12328.5	13736.4	14072.9
22.5°	1497.6	1621.0	1974.4	2759.6	4111.4	6052.1	9434.3	13927.1	15548.1	16036.1
25°	1301.3	1368.6	1536.9	2176.3	3612.2	6007.2	10197.1	15845.4	17960.0	18313.3
27.5°	1256.4	1267.6	1413.5	1996.8	3343.0	5709.9	10488.8	17208.4	19463.2	19822.1
30°	1323.7	1503.2	1514.4	1688.3	2843.8	5121.0	10640.2	18526.5	20736.4	21000.0
32.5°	1144.2	1088.1	1127.4	1306.9	2501.6	4778.9	10926.3	19676.3	22189.1	22374.2
35°	796.5	835.7	925.5	1133.0	2187.5	4419.9	10999.2	20943.9	23568.9	23759.6
37.5°	734.8	757.2	830.1	964.7	1923.9	4218.0	10898.2	21869.4	24999.2	25262.8
40°	684.3	712.3	751.6	875.0	1727.6	3993.6	10758.0	22705.2	25874.2	26524.9
42.5°	645.0	667.5	701.1	835.7	1559.3	3769.2	10561.7	23883.0	26659.5	27226.0
45°	600.2	633.8	673.1	813.3	1463.9	3617.8	10415.9	23810.1	27113.8	27416.7
47.5°	555.3	611.4	656.3	757.2	1435.9	3544.9	10477.6	23535.3	26743.6	26536.1
50°	510.4	583.3	661.9	628.2	1368.6	3399.0	10550.5	23911.1	25863.0	25823.7
52.5°	471.2	555.3	617.0	516.0	1217.1	3258.8	11257.2	24404.7	26485.6	25964.0
55°	415.1	499.2	493.6	415.1	987.2	3152.2	11812.5	24415.9	26064.9	26261.2
57.5°	375.8	443.1	387.0	347.8	729.2	2636.2	10909.5	20472.8	22312.5	22660.3
60°	347.8	431.9	291.7	274.8	476.8	1901.4	9524.0	15856.6	17735.6	18391.8
62.5°	319.7	409.5	230.0	224.4	330.9	1351.8	7830.1	13270.8	15284.5	16176.3
65°	280.4	291.7	185.1	173.9	235.6	729.2	4767.6	9137.0	11425.5	11756.4
67.5°	230.0	224.4	151.4	140.2	157.1	353.4	2103.4	4576.9	6624.2	7179.5
70°	185.1	185.1	129.0	112.2	112.2	162.7	549.7	1822.9	2995.2	3314.9
72.5°	134.6	140.2	101.0	89.7	84.1	78.5	89.7	364.6	785.3	1004.0
75°	117.8	123.4	101.0	78.5	61.7	50.5	39.3	33.7	44.9	72.9
77.5°	129.0	129.0	106.6	72.9	56.1	39.3	22.4	11.2	11.2	5.6
80°	162.7	168.3	140.2	95.4	67.3	44.9	28.0	11.2	5.6	5.6
82.5°	173.9	190.7	157.1	117.8	84.1	50.5	28.0	5.6	0.0	0.0
85°	44.9	72.9	123.4	106.6	84.1	50.5	28.0	5.6	0.0	0.0
87.5°	0.0	5.6	16.8	16.8	22.4	22.4	16.8	5.6	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)