

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: P533825

Luminaire Tested: **GALN-SA9B-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533825
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-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 26565 lumens
Efficiency: N/A
Efficacy: 73.0 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

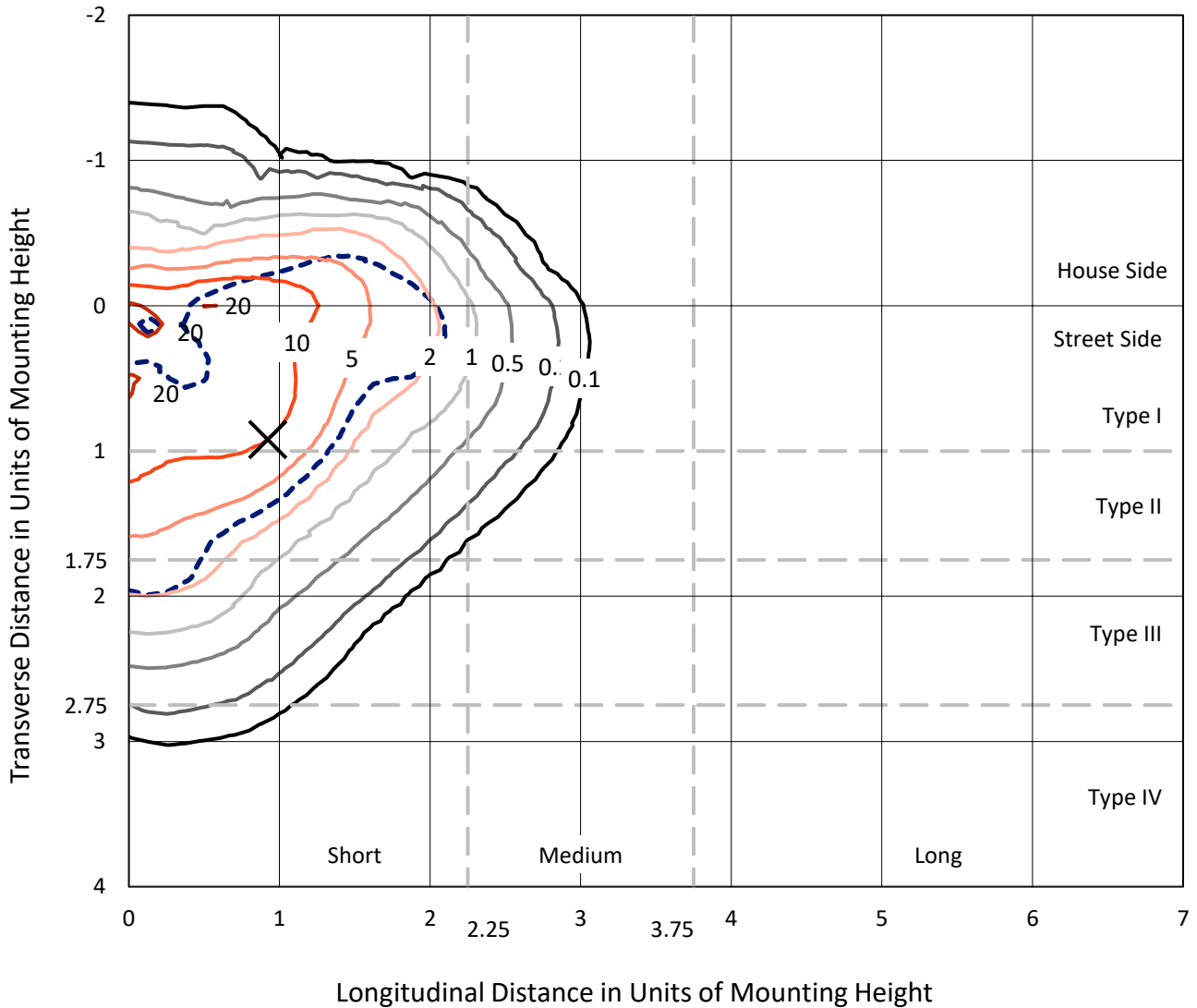
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

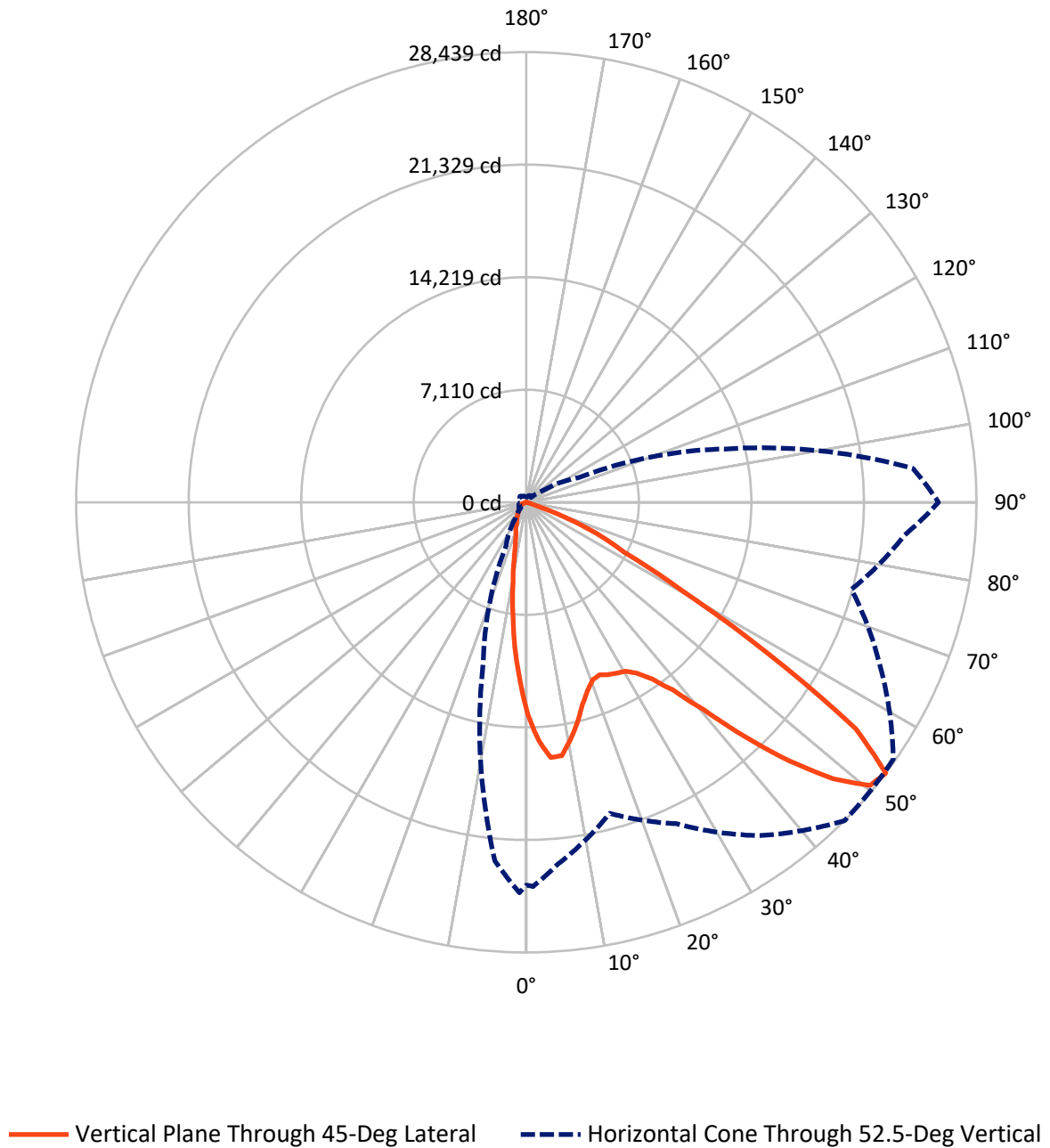
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.3 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	5391.4	0.0	5391.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	21173.6	0.0	21173.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	26565.0	0.0	26565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	982.3	3.7
10°-20°	1938.1	7.3
20°-30°	2949.4	11.1
30°-40°	4408.3	16.6
40°-50°	6277.8	23.6
50°-60°	6748.5	25.4
60°-70°	2990.4	11.3
70°-80°	241.9	0.9
80°-90°	28.2	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°	26565.0	100.0
0°-180°	26565.0	100.0

Coefficient of Utilization

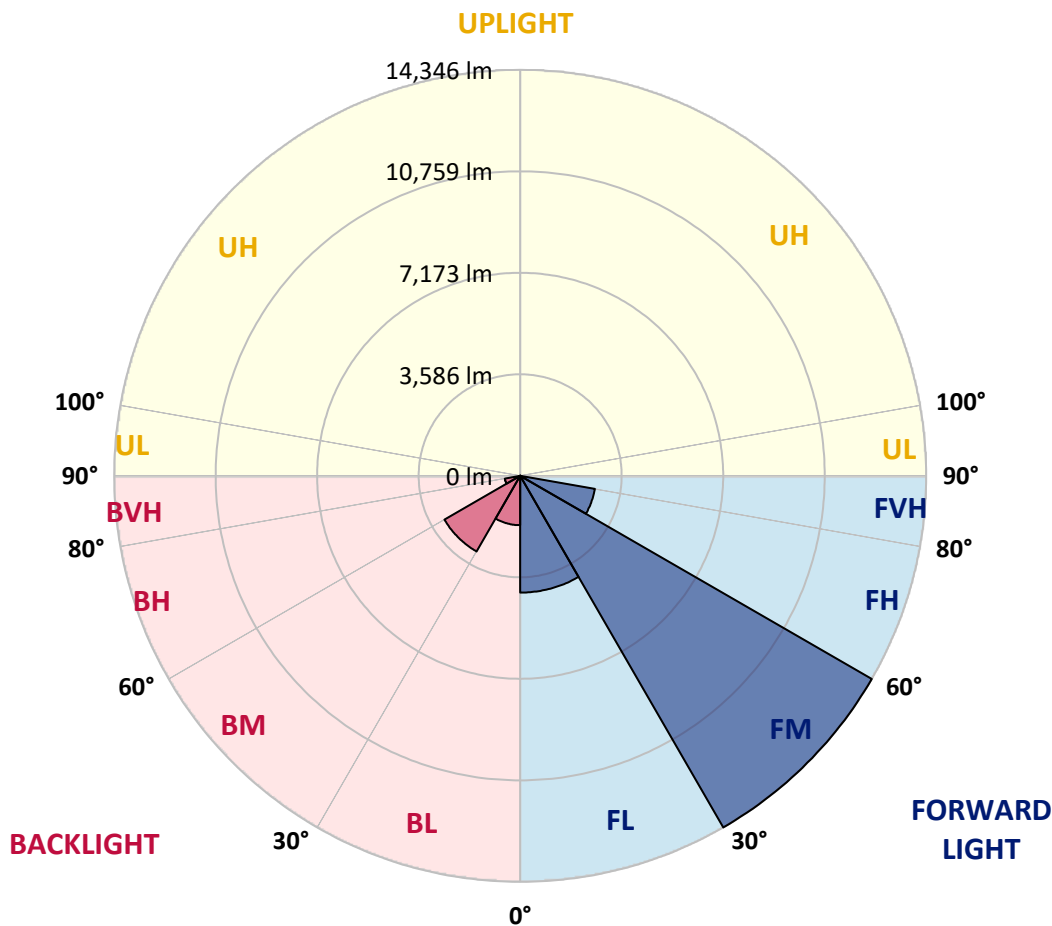


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4126.1	15.5			
FM (30°-60°)	14345.9	54.0			
FH (60°-80°)	2680.7	10.1			G2/5000
FVH (80°-90°)	20.9	0.1			G1/100
BL (0°-30°)	1743.8	6.6	B3/2500		
BM (30°-60°)	3088.7	11.6	B3/5000		
BH (60°-80°)	551.6	2.1	B2/1000		G2/1000
BVH (80°-90°)	7.3	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°	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7
2.5°	14253.4	14295.2	14525.1	14812.5	14964.0	15308.8	15068.5	15131.2	15000.6	14540.8	14180.3
5°	13819.8	13814.5	14107.1	14817.7	15491.7	16176.2	16197.1	15831.3	15188.7	14483.3	13474.9
7.5°	12513.5	12717.3	13020.4	14154.1	15402.9	15914.9	16160.5	15732.1	14744.6	13736.2	12644.2
10°	11526.0	11630.5	12142.6	13511.5	14425.8	15110.3	15261.8	15016.2	14258.6	12999.5	11776.8
12.5°	10956.5	11008.8	11609.6	12759.1	13725.7	14232.5	14305.7	14420.6	13877.2	12696.4	11228.2
15°	10961.8	11003.6	11813.4	12774.8	13156.2	13020.4	13260.7	13255.5	13490.6	12638.9	11688.0
17.5°	11750.7	11797.7	12529.2	13004.7	12837.5	12518.8	12503.1	12743.4	13239.8	13354.7	12382.9
20°	13109.2	13218.9	13757.1	13730.9	12790.5	12147.8	11970.2	12153.0	13307.7	13960.8	13783.2
22.5°	14937.9	15089.4	15465.6	14744.6	13004.7	11897.0	11839.5	12194.8	13757.1	15314.1	15371.5
25°	17059.2	17315.2	17498.1	16573.3	13767.5	12330.7	12059.0	12670.3	14363.1	16782.3	17393.6
27.5°	18464.7	18731.1	18689.3	17367.4	14279.5	12445.6	12215.7	12785.2	14890.9	17132.3	18449.0
30°	19561.9	19723.8	20016.4	17795.9	14791.6	12769.6	12377.7	13271.1	15063.3	17738.4	19723.8
32.5°	20842.0	20951.7	20972.6	18553.5	15580.5	13177.1	12879.3	13877.2	15826.1	18318.4	20852.4
35°	22132.5	22294.5	21954.9	19488.7	16066.4	13934.7	13715.3	14927.4	16437.4	18919.2	22095.9
37.5°	23532.8	23616.4	22832.6	19875.4	16761.4	15167.8	15047.6	16061.2	17498.1	20006.0	23475.3
40°	24708.4	24786.7	23767.9	20350.8	17492.8	16892.0	17200.2	18224.3	18940.1	20711.3	24165.0
42.5°	25361.5	25544.3	24081.4	20089.6	18961.0	18846.1	20215.0	20575.5	20612.1	20909.9	24781.5
45°	25539.1	25455.5	23564.1	20303.8	20246.3	22059.4	23302.9	23778.3	22273.6	21275.6	24938.3
47.5°	24718.8	24828.5	22801.3	20115.7	21934.0	24494.1	26103.4	26986.4	23511.9	20956.9	24551.6
50°	24055.3	23914.2	22555.7	19979.9	22388.5	25643.6	28125.4	28324.0	24650.9	21348.8	24128.4
52.5°	24185.9	24274.7	22947.6	20340.4	22399.0	25711.5	28438.9	28303.1	24687.5	21260.0	23976.9
55°	24462.8	24070.9	22780.4	19546.2	20899.4	23814.9	25241.3	25032.3	22785.6	20314.3	23605.9
57.5°	21108.4	21714.5	20946.5	17451.0	17153.2	17942.2	17916.0	18558.7	16996.5	17482.4	21489.9
60°	17132.3	17236.8	17524.2	14927.4	11870.9	11599.2	11223.0	10815.5	11437.2	14948.3	19546.2
62.5°	15068.5	14943.1	15967.2	13579.4	8380.7	7017.0	6954.3	7205.1	8824.8	14258.6	18334.0
65°	10951.3	11108.1	11850.0	10538.5	6290.7	5355.5	5261.4	6003.4	7142.4	11426.8	13992.2
67.5°	6687.8	6990.9	7058.8	6499.7	4268.7	3390.9	3255.1	3929.1	5156.9	7393.2	8203.0
70°	3087.9	3453.6	3798.5	3547.7	2471.4	1395.0	1316.7	1651.1	2602.0	4253.0	4352.3
72.5°	935.2	940.5	1316.7	1374.1	799.4	313.5	276.9	365.7	883.0	1405.5	1478.6
75°	67.9	73.1	177.6	203.8	151.5	78.4	83.6	99.3	188.1	313.5	235.1
77.5°	5.2	5.2	5.2	26.1	47.0	52.2	67.9	78.4	99.3	114.9	104.5
80°	5.2	0.0	5.2	20.9	36.6	52.2	62.7	73.1	78.4	88.8	78.4
82.5°	0.0	0.0	0.0	15.7	36.6	52.2	57.5	78.4	88.8	104.5	88.8
85°	0.0	0.0	0.0	15.7	36.6	57.5	52.2	26.1	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°	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7
2.5°	14243.0	14039.2	13574.2	13339.1	12785.2	12706.9	12163.5	12074.7	11891.8	11792.5	11552.2
5°	13030.8	12785.2	12027.6	11390.2	10648.3	10131.0	9733.9	9373.4	9164.4	8971.1	9059.9
7.5°	12043.3	11327.5	10486.3	9420.4	8563.5	8009.7	7403.6	6907.3	6614.7	6416.1	6463.2
10°	11008.8	10543.8	9373.4	8176.9	7142.4	6750.5	6275.1	5893.6	5480.9	5125.6	4958.4
12.5°	10684.8	9995.2	8527.0	7309.6	6525.9	6144.4	5601.1	5162.2	4634.5	4200.8	4049.3
15°	10742.3	10078.8	8297.1	6996.1	6071.3	5413.0	4765.1	4221.7	3641.7	3338.7	3181.9
17.5°	11677.6	10528.1	8448.6	6666.9	5439.1	4524.7	3725.3	3035.6	2602.0	2288.5	2220.6
20°	12827.0	11499.9	8772.5	6426.6	4921.8	3599.9	2722.2	2126.5	1766.0	1713.8	1698.1
22.5°	14509.4	13088.3	9467.4	6264.6	4289.6	2805.7	1865.3	1546.6	1447.3	1436.8	1442.1
25°	16860.6	15078.9	10225.1	6128.8	3814.1	2163.1	1525.7	1311.4	1280.1	1264.4	1290.5
27.5°	17879.5	16280.7	10627.4	5836.2	3380.5	1948.9	1504.8	1301.0	1212.2	1186.0	1201.7
30°	19138.7	17080.1	11259.6	5334.6	2743.1	1604.0	1405.5	1415.9	1374.1	1243.5	1201.7
32.5°	20810.6	18078.0	11578.3	4979.3	2450.5	1327.1	1029.3	945.7	1055.4	1076.3	1112.9
35°	21881.7	19091.6	11740.3	4770.3	2298.9	1133.8	872.6	794.2	768.1	773.3	794.2
37.5°	23872.4	20460.6	11944.0	4550.9	2184.0	987.5	789.0	715.8	679.2	679.2	700.1
40°	25063.7	21547.3	12220.9	4430.7	2069.0	898.7	715.8	653.1	621.8	621.8	632.2
42.5°	25361.5	22085.5	12126.9	4388.9	1938.4	877.8	653.1	606.1	569.5	564.3	559.1
45°	25894.4	22905.8	12142.6	4341.9	1802.6	799.4	616.5	564.3	512.0	506.8	501.6
47.5°	26479.6	23496.2	12173.9	4159.0	1672.0	668.8	642.7	522.5	459.8	449.3	449.3
50°	25978.0	23966.4	12445.6	3976.1	1504.8	543.4	632.2	491.1	407.5	391.9	397.1
52.5°	26040.7	24520.3	13020.4	3720.1	1295.8	433.7	512.0	465.0	371.0	344.8	350.1
55°	25037.5	23935.1	13098.7	3448.4	1013.6	334.4	391.9	407.5	313.5	303.0	303.0
57.5°	21552.5	20267.2	11557.4	2795.3	668.8	276.9	282.1	355.3	271.7	261.2	266.5
60°	18443.8	16270.2	9300.3	1844.4	418.0	219.4	203.8	360.5	240.3	235.1	250.8
62.5°	16813.6	13370.4	7053.6	1144.2	287.4	167.2	141.1	292.6	209.0	209.0	229.9
65°	12147.8	8981.5	4101.5	600.9	203.8	130.6	104.5	167.2	172.4	177.6	188.1
67.5°	7523.8	4535.2	1729.4	292.6	135.8	88.8	67.9	104.5	114.9	114.9	125.4
70°	3714.9	1807.8	574.7	167.2	104.5	73.1	47.0	57.5	57.5	52.2	57.5
72.5°	1149.5	543.4	146.3	104.5	73.1	47.0	26.1	20.9	10.4	0.0	5.2
75°	130.6	104.5	94.0	73.1	47.0	20.9	5.2	0.0	0.0	0.0	0.0
77.5°	78.4	88.8	88.8	73.1	47.0	15.7	0.0	0.0	0.0	0.0	0.0
80°	62.7	67.9	73.1	67.9	41.8	20.9	0.0	0.0	0.0	0.0	0.0
82.5°	78.4	88.8	99.3	88.8	57.5	26.1	10.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	15.7	5.2	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°	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7
2.5°	11452.9	11337.9	11499.9	11259.6	11254.3	11259.6	11191.7	11129.0	11228.2	11494.7	11520.8
5°	8741.2	8986.8	9065.1	9321.2	9180.1	8971.1	9012.9	8871.8	9216.7	9368.2	9248.0
7.5°	6363.9	6348.2	6875.9	6907.3	6975.2	6980.4	6970.0	6693.0	6410.9	6473.6	6661.7
10°	4937.5	4671.0	4927.0	4900.9	5068.1	5021.1	5089.0	4791.2	4890.5	4890.5	5010.6
12.5°	4023.1	3741.0	3694.0	3626.1	3694.0	3720.1	3746.2	3688.8	3855.9	3934.3	4017.9
15°	3072.2	2915.5	2873.7	2743.1	2764.0	2837.1	2899.8	2925.9	2873.7	2993.8	3004.3
17.5°	2231.0	2225.8	2251.9	2246.7	2225.8	2210.1	2204.9	2137.0	2116.1	2126.5	2168.3
20°	1692.9	1734.7	1823.5	1912.3	1959.3	1901.8	1823.5	1708.5	1661.5	1672.0	1677.2
22.5°	1447.3	1510.0	1630.2	1729.4	1776.5	1672.0	1530.9	1431.6	1410.7	1405.5	1400.3
25°	1311.4	1384.6	1473.4	1504.8	1499.5	1436.8	1332.3	1290.5	1280.1	1269.6	1222.6
27.5°	1238.3	1264.4	1280.1	1316.7	1332.3	1290.5	1264.4	1201.7	1191.3	1191.3	1159.9
30°	1196.5	1180.8	1201.7	1175.6	1196.5	1165.1	1170.4	1170.4	1144.2	1154.7	1154.7
32.5°	1112.9	1118.1	1118.1	1065.9	1081.5	1045.0	1081.5	1112.9	1118.1	1123.3	1165.1
35°	815.1	909.1	956.1	956.1	971.8	945.7	940.5	903.9	856.9	809.9	789.0
37.5°	715.8	752.4	815.1	851.7	877.8	856.9	809.9	752.4	726.3	705.4	684.5
40°	637.4	668.8	710.6	752.4	804.6	778.5	705.4	679.2	647.9	647.9	627.0
42.5°	574.7	590.4	616.5	679.2	736.7	684.5	632.2	611.3	595.6	590.4	585.2
45°	517.3	522.5	548.6	600.9	668.8	616.5	564.3	538.2	543.4	548.6	543.4
47.5°	465.0	475.5	491.1	553.8	595.6	569.5	512.0	496.4	496.4	496.4	501.6
50°	402.3	428.4	459.8	512.0	543.4	527.7	480.7	459.8	449.3	449.3	454.6
52.5°	360.5	381.4	423.2	485.9	527.7	501.6	454.6	423.2	402.3	397.1	407.5
55°	313.5	350.1	418.0	465.0	522.5	496.4	444.1	407.5	371.0	365.7	365.7
57.5°	282.1	339.6	402.3	459.8	506.8	485.9	444.1	397.1	350.1	344.8	344.8
60°	266.5	329.2	391.9	444.1	506.8	475.5	438.9	386.6	334.4	334.4	329.2
62.5°	250.8	308.3	371.0	423.2	485.9	459.8	423.2	371.0	318.7	318.7	308.3
65°	209.0	266.5	308.3	355.3	423.2	397.1	360.5	323.9	282.1	271.7	276.9
67.5°	146.3	182.9	224.7	271.7	313.5	303.0	287.4	261.2	224.7	219.4	214.2
70°	73.1	99.3	135.8	182.9	219.4	209.0	198.5	177.6	156.7	151.5	151.5
72.5°	10.4	31.3	57.5	83.6	114.9	120.2	114.9	109.7	104.5	99.3	104.5
75°	0.0	0.0	0.0	20.9	47.0	57.5	67.9	78.4	78.4	67.9	83.6
77.5°	0.0	0.0	0.0	0.0	5.2	26.1	52.2	67.9	83.6	73.1	99.3
80°	0.0	0.0	0.0	0.0	5.2	31.3	52.2	73.1	83.6	73.1	104.5
82.5°	0.0	0.0	0.0	0.0	5.2	36.6	52.2	67.9	78.4	73.1	94.0
85°	0.0	0.0	0.0	0.0	15.7	31.3	20.9	10.4	5.2	5.2	15.7
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-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7	13469.7
2.5°	11667.1	12038.1	12435.2	12586.7	13056.9	13412.2	13652.6	14169.8	14248.2	14253.4
5°	9373.4	9561.5	10240.7	10559.4	11259.6	11803.0	12382.9	13218.9	13778.0	13819.8
7.5°	6661.7	7184.2	7471.6	8302.3	9164.4	10016.1	10878.2	11850.0	12497.9	12513.5
10°	5360.7	5700.3	6212.4	6834.1	7560.4	8427.7	9577.2	10705.7	11364.1	11526.0
12.5°	4315.7	4911.4	5496.6	6139.2	6693.0	7346.2	8584.4	10089.2	10632.6	10956.5
15°	3323.0	3866.4	4556.1	5308.5	5935.4	6808.0	8218.7	9937.7	10852.0	10961.8
17.5°	2450.5	2936.4	3573.8	4284.4	5224.9	6463.2	8281.4	10705.7	11567.8	11750.7
20°	1760.8	2042.9	2544.5	3370.0	4566.5	6060.8	8344.1	11484.2	12795.7	13109.2
22.5°	1395.0	1510.0	1839.2	2570.6	3829.8	5637.6	8788.2	12973.3	14483.3	14937.9
25°	1212.2	1274.9	1431.6	2027.2	3364.8	5595.8	9498.8	14760.2	16730.0	17059.2
27.5°	1170.4	1180.8	1316.7	1860.1	3114.0	5318.9	9770.5	16029.9	18130.3	18464.7
30°	1233.1	1400.3	1410.7	1572.7	2649.0	4770.3	9911.6	17257.7	19316.3	19561.9
32.5°	1065.9	1013.6	1050.2	1217.4	2330.3	4451.6	10178.0	18328.8	20669.5	20842.0
35°	741.9	778.5	862.1	1055.4	2037.7	4117.2	10246.0	19509.6	21954.9	22132.5
37.5°	684.5	705.4	773.3	898.7	1792.1	3929.1	10151.9	20371.7	23287.2	23532.8
40°	637.4	663.6	700.1	815.1	1609.3	3720.1	10021.3	21150.2	24102.3	24708.4
42.5°	600.9	621.8	653.1	778.5	1452.5	3511.1	9838.4	22247.5	24833.8	25361.5
45°	559.1	590.4	627.0	757.6	1363.7	3370.0	9702.6	22179.5	25257.0	25539.1
47.5°	517.3	569.5	611.3	705.4	1337.6	3302.1	9760.0	21923.5	24912.1	24718.8
50°	475.5	543.4	616.5	585.2	1274.9	3166.3	9828.0	22273.6	24091.8	24055.3
52.5°	438.9	517.3	574.7	480.7	1133.8	3035.6	10486.3	22733.4	24671.8	24185.9
55°	386.6	465.0	459.8	386.6	919.6	2936.4	11003.6	22743.8	24279.9	24462.8
57.5°	350.1	412.8	360.5	323.9	679.2	2455.7	10162.4	19070.7	20784.5	21108.4
60°	323.9	402.3	271.7	256.0	444.1	1771.2	8871.8	14770.7	16521.0	17132.3
62.5°	297.8	381.4	214.2	209.0	308.3	1259.2	7293.9	12362.0	14237.7	15068.5
65°	261.2	271.7	172.4	162.0	219.4	679.2	4441.1	8511.3	10643.0	10951.3
67.5°	214.2	209.0	141.1	130.6	146.3	329.2	1959.3	4263.5	6170.6	6687.8
70°	172.4	172.4	120.2	104.5	104.5	151.5	512.0	1698.1	2790.1	3087.9
72.5°	125.4	130.6	94.0	83.6	78.4	73.1	83.6	339.6	731.5	935.2
75°	109.7	114.9	94.0	73.1	57.5	47.0	36.6	31.3	41.8	67.9
77.5°	120.2	120.2	99.3	67.9	52.2	36.6	20.9	10.4	10.4	5.2
80°	151.5	156.7	130.6	88.8	62.7	41.8	26.1	10.4	5.2	5.2
82.5°	162.0	177.6	146.3	109.7	78.4	47.0	26.1	5.2	0.0	0.0
85°	41.8	67.9	114.9	99.3	78.4	47.0	26.1	5.2	0.0	0.0
87.5°	0.0	5.2	15.7	15.7	20.9	20.9	15.7	5.2	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)