

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: P533359

Luminaire Tested: **GALN-SA8D-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32170 lumens
Efficiency: N/A
Efficacy: 65.3 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

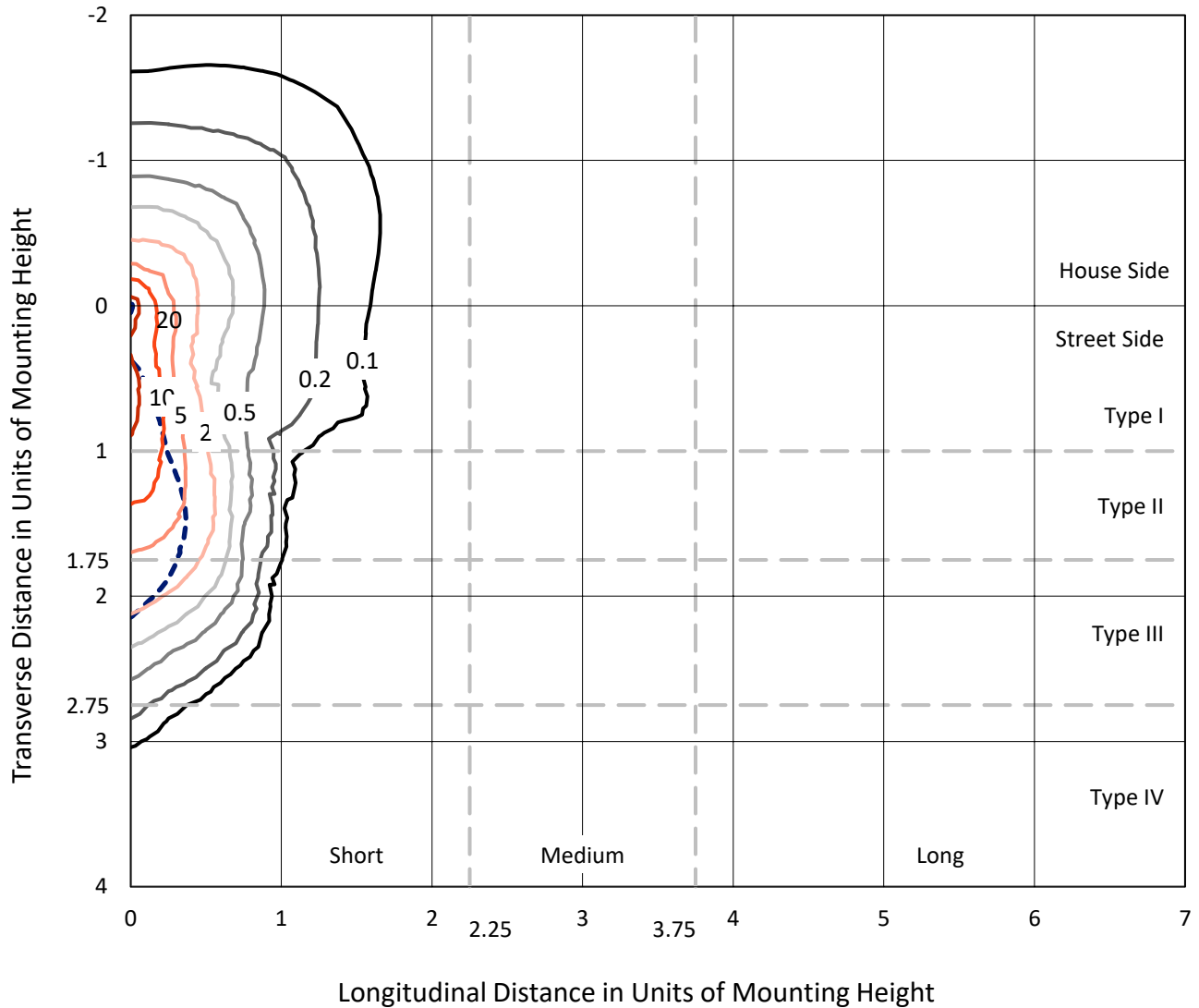
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

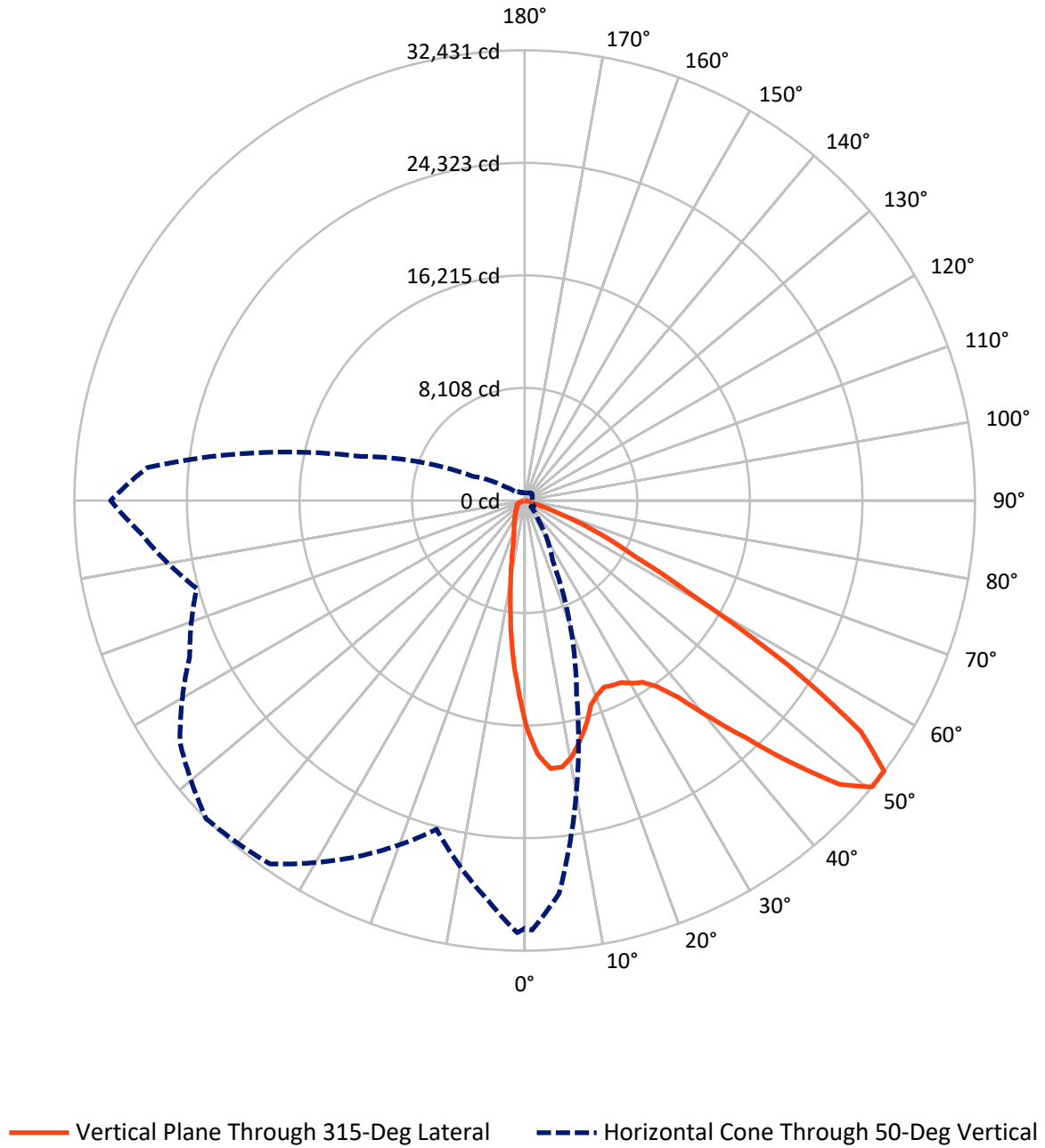
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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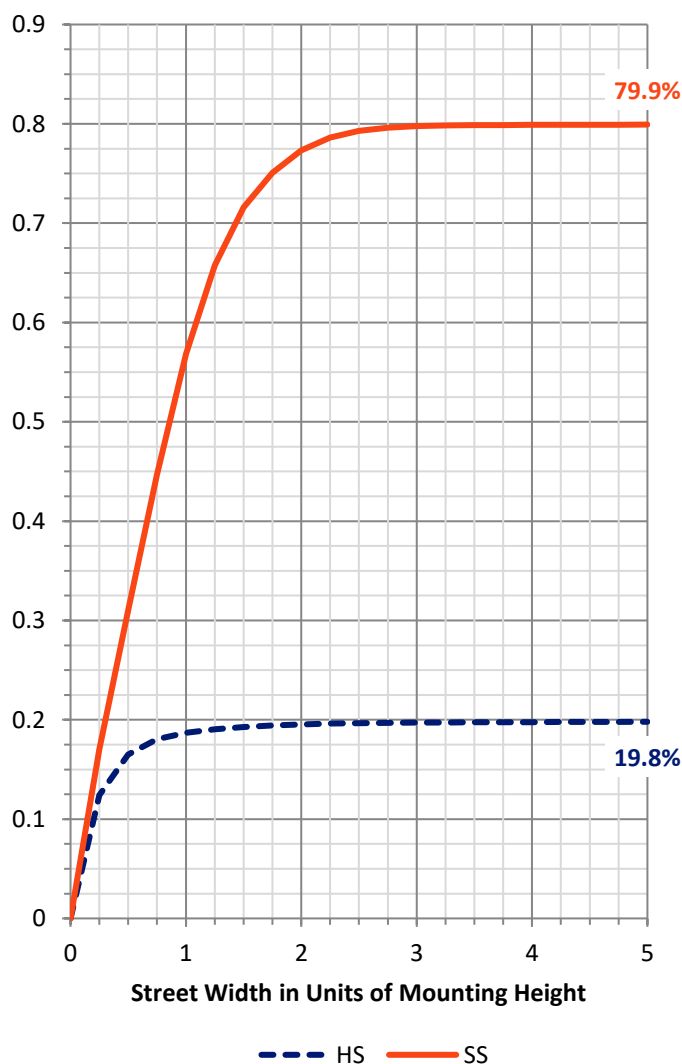
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6443.6	0.0	6443.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	25726.3	0.0	25726.3
	% Fixture	80.0	0.0	80.0
Total	Lumens	32170.0	0.0	32170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1189.1	3.7
10°-20°	2363.4	7.3
20°-30°	3550.5	11.0
30°-40°	5329.2	16.6
40°-50°	7489.8	23.3
50°-60°	8079.0	25.1
60°-70°	3751.1	11.7
70°-80°	352.9	1.1
80°-90°	65.1	0.2
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°	32170.0	100.0
0°-180°	32170.0	100.0

Coefficient of Utilization



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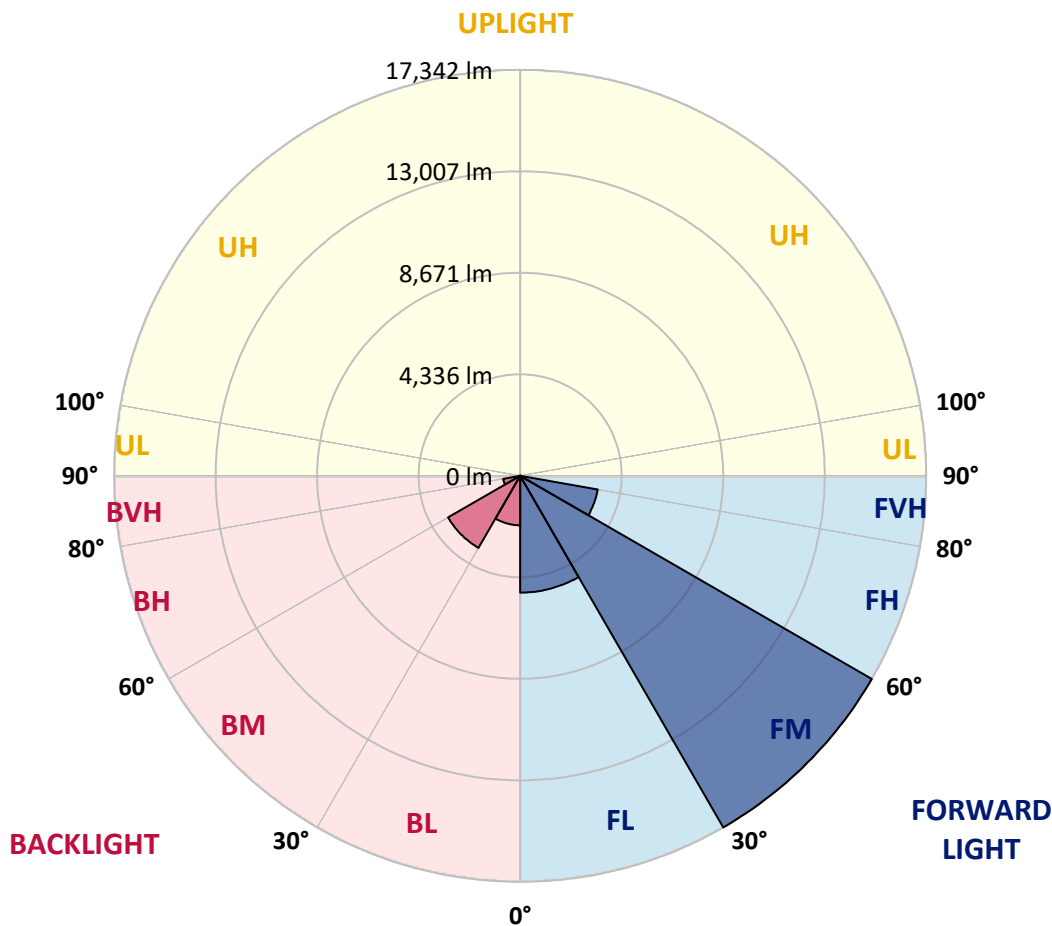
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4990.9	15.5			
FM (30°-60°)	17342.0	53.9			
FH (60°-80°)	3364.1	10.5			G2/5000
FVH (80°-90°)	29.3	0.1			G1/100
BL (0°-30°)	2112.1	6.6	B3/2500		
BM (30°-60°)	3555.9	11.1	B3/5000		
BH (60°-80°)	739.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	35.7	0.1			G1/100
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°	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2
2.5°	16958.9	16697.2	16365.3	16090.8	15682.4	14859.0	14635.6	14367.5	14144.1	13844.1	13422.9
5°	15420.7	15337.7	15184.5	14150.5	13403.7	12408.0	11591.0	11246.4	10793.2	10423.0	10154.9
7.5°	14246.2	13914.3	13429.3	12388.9	11195.3	10129.4	9223.0	8693.3	8093.3	7889.0	7525.2
10°	12988.8	13065.4	12350.6	10888.9	9446.4	8584.8	8023.1	7512.5	6969.9	6612.5	6095.5
12.5°	12586.7	12337.8	11788.9	9982.6	8750.7	7946.5	7263.5	6631.7	6057.2	5482.8	4984.9
15°	12848.4	12465.5	11699.5	9791.1	8214.6	7212.5	6357.2	5501.9	4972.1	4238.1	3721.1
17.5°	13786.7	13480.3	12452.7	9995.3	7940.1	6510.4	5240.2	4359.4	3548.8	2885.0	2623.3
20°	15350.5	14916.4	13627.1	10257.0	7531.6	5661.5	4250.9	3165.8	2399.9	2119.1	1972.3
22.5°	16882.3	16646.1	15018.6	10761.3	7167.8	4908.3	3191.4	2131.8	1793.5	1742.5	1646.7
25°	19799.2	19090.7	17144.0	11674.0	6887.0	4199.8	2406.3	1717.0	1519.1	1480.8	1493.6
27.5°	21535.3	20941.7	19109.9	12280.4	6574.2	3657.3	2036.1	1576.5	1442.5	1359.5	1327.6
30°	23201.2	22511.9	20086.4	12637.8	5904.0	3082.9	1806.3	1512.7	1480.8	1359.5	1321.2
32.5°	24484.1	23807.6	21497.0	13173.9	5629.6	2712.7	1487.2	1180.8	1097.8	1085.1	1200.0
35°	26450.0	25728.8	22703.4	13467.5	5418.9	2521.2	1289.3	1053.1	957.4	919.1	925.5
37.5°	28281.9	27790.4	23820.3	13582.4	5195.5	2463.7	1155.3	944.6	861.7	836.1	829.8
40°	29813.7	28715.9	24879.9	13703.7	5099.8	2355.2	1072.3	861.7	804.2	765.9	765.9
42.5°	30515.8	29398.8	26067.0	13633.5	5074.3	2182.9	1072.3	791.5	746.8	708.5	702.1
45°	30362.6	29909.4	26596.8	13601.6	5074.3	2010.6	976.6	772.3	708.5	657.4	644.7
47.5°	30758.4	30164.8	27260.6	13735.6	4972.1	1889.3	823.4	810.6	670.2	606.4	593.6
50°	30828.6	30943.5	28415.9	14431.3	4748.7	1736.1	644.7	797.8	644.7	548.9	536.1
52°	31288.1	30573.3	28766.9	14801.5	4512.6	1621.2	542.5	683.0	619.1	510.6	497.9
52.5°	30656.2	31122.2	28849.9	14935.6	4538.1	1544.6	523.4	670.2	606.4	510.6	478.7
55°	29947.7	30394.5	28511.6	15222.8	4161.5	1212.7	408.5	485.1	548.9	446.8	427.6
57.5°	26028.8	26481.9	24777.7	13939.9	3389.2	855.3	338.3	363.8	485.1	414.9	395.7
60°	23137.4	22811.9	20794.9	11629.3	2406.3	478.7	268.1	280.8	529.8	383.0	376.6
62.5°	21146.0	20450.3	17380.2	8980.5	1468.0	319.1	210.6	217.0	408.5	357.4	357.4
65°	15644.1	14865.4	11546.3	5431.7	721.2	223.4	159.6	172.3	255.3	306.4	306.4
67.5°	8929.4	8629.4	5578.5	2451.0	300.0	140.4	121.3	134.0	197.9	248.9	236.2
70°	4104.1	3682.8	2144.6	517.0	140.4	95.7	95.7	108.5	159.6	185.1	172.3
72.5°	1200.0	1136.1	523.4	83.0	57.4	57.4	63.8	83.0	121.3	140.4	127.7
75°	89.4	57.4	38.3	25.5	25.5	38.3	51.1	83.0	121.3	134.0	108.5
77.5°	6.4	12.8	6.4	6.4	19.1	38.3	57.4	102.1	159.6	166.0	121.3
80°	6.4	6.4	0.0	6.4	19.1	38.3	63.8	114.9	178.7	191.5	102.1
82.5°	0.0	0.0	0.0	6.4	25.5	51.1	76.6	121.3	166.0	204.2	108.5
85°	0.0	0.0	0.0	6.4	38.3	70.2	89.4	31.9	19.1	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°	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2
2.5°	13722.9	13556.9	13493.1	13550.5	13531.4	13512.2	13863.3	13786.7	13773.9	13888.8	13863.3
5°	10301.7	10008.1	10812.3	10486.8	10825.1	11029.3	11067.6	11086.8	11323.0	11074.0	11399.5
7.5°	7340.1	7416.7	7410.3	7627.4	8016.7	8361.4	8565.6	8406.0	8393.3	8361.4	8220.9
10°	5865.7	5731.7	5706.2	5655.1	5776.4	6070.0	6318.9	6121.0	5980.6	6172.1	6114.7
12.5°	4793.4	4608.3	4506.2	4302.0	4308.3	4506.2	4506.2	4506.2	4646.6	4755.1	4838.1
15°	3676.4	3523.3	3523.3	3319.0	3274.3	3280.7	3382.8	3395.6	3619.0	3682.8	3714.7
17.5°	2572.2	2489.3	2585.0	2668.0	2616.9	2629.7	2668.0	2680.7	2712.7	2687.1	2751.0
20°	1978.6	1965.9	1991.4	2138.2	2246.7	2310.5	2265.9	2202.0	2163.7	2074.4	2074.4
22.5°	1678.7	1704.2	1748.9	1870.1	2010.6	2048.9	1997.8	1851.0	1736.1	1723.3	1729.7
25°	1493.6	1519.1	1589.3	1665.9	1742.5	1806.3	1755.2	1646.7	1582.9	1525.5	1525.5
27.5°	1378.7	1391.4	1429.7	1487.2	1551.0	1602.1	1582.9	1525.5	1455.3	1429.7	1372.3
30°	1289.3	1308.5	1353.1	1365.9	1423.3	1448.9	1417.0	1404.2	1359.5	1327.6	1308.5
32.5°	1244.6	1238.2	1270.2	1282.9	1289.3	1308.5	1270.2	1289.3	1282.9	1231.9	1212.7
35°	938.3	989.3	1072.3	1142.5	1161.7	1187.2	1180.8	1155.3	1085.1	1027.6	957.4
37.5°	842.5	874.4	919.1	976.6	1053.1	1085.1	1072.3	1008.5	925.5	887.2	874.4
40°	778.7	797.8	836.1	874.4	951.0	1008.5	963.8	906.3	842.5	810.6	791.5
42.5°	721.2	727.6	746.8	785.1	842.5	931.9	855.3	778.7	753.2	734.0	721.2
45°	657.4	657.4	683.0	702.1	765.9	848.9	772.3	702.1	689.3	676.6	670.2
47.5°	606.4	612.7	625.5	651.0	702.1	759.5	708.5	651.0	619.1	612.7	600.0
50°	542.5	548.9	574.4	600.0	663.8	695.7	663.8	600.0	568.1	548.9	548.9
52°	491.5	510.6	536.1	587.2	631.9	683.0	644.7	574.4	536.1	517.0	504.2
52.5°	485.1	497.9	523.4	580.8	631.9	676.6	638.3	568.1	523.4	510.6	497.9
55°	434.0	453.2	497.9	568.1	625.5	676.6	625.5	561.7	497.9	465.9	453.2
57.5°	414.9	427.6	485.1	574.4	619.1	676.6	625.5	561.7	497.9	440.4	427.6
60°	395.7	421.3	485.1	555.3	612.7	683.0	631.9	555.3	485.1	414.9	414.9
62.5°	376.6	395.7	478.7	542.5	587.2	657.4	606.4	542.5	465.9	395.7	389.3
65°	325.5	357.4	421.3	453.2	504.2	568.1	517.0	472.3	408.5	351.0	344.7
67.5°	248.9	261.7	312.8	351.0	383.0	440.4	414.9	357.4	312.8	268.1	268.1
70°	172.3	185.1	223.4	242.5	274.5	306.4	287.2	242.5	210.6	185.1	178.7
72.5°	121.3	127.7	140.4	153.2	166.0	178.7	172.3	140.4	121.3	114.9	108.5
75°	95.7	108.5	114.9	108.5	102.1	95.7	95.7	83.0	70.2	63.8	63.8
77.5°	95.7	102.1	95.7	83.0	70.2	63.8	57.4	51.1	38.3	31.9	38.3
80°	83.0	83.0	83.0	70.2	63.8	57.4	51.1	44.7	38.3	31.9	31.9
82.5°	89.4	89.4	83.0	70.2	70.2	57.4	57.4	51.1	44.7	31.9	31.9
85°	0.0	0.0	0.0	12.8	31.9	57.4	57.4	51.1	44.7	38.3	38.3
87.5°	0.0	0.0	0.0	0.0	6.4	12.8	25.5	31.9	38.3	38.3	38.3
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°	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2
2.5°	14093.1	14335.6	14795.2	15254.7	15535.6	15867.5	16467.4	16786.6	17201.4	17405.7	17807.8
5°	11354.9	11929.3	12133.6	12656.9	13218.6	13780.3	14673.9	15656.8	16473.8	17035.5	17763.1
7.5°	8284.8	8418.8	9210.3	9561.3	10480.4	11501.7	12720.8	13959.0	14993.0	15912.1	16467.4
10°	6210.4	6701.9	7199.7	7869.9	8610.3	9663.4	10831.5	12197.4	13537.8	14456.9	15159.0
12.5°	4991.3	5380.6	6044.4	6765.7	7678.4	8374.1	9548.6	10901.7	12637.8	13537.8	14463.3
15°	3778.6	4276.4	5029.6	5776.4	6740.2	7474.2	8661.4	10365.5	12599.5	13837.7	14635.6
17.5°	2802.0	3140.3	3816.9	4653.0	5635.9	6669.9	8272.0	10308.1	13027.1	14501.6	15324.9
20°	2144.6	2259.5	2687.1	3433.9	4499.8	5853.0	7640.1	10557.0	14290.9	16116.4	16952.5
22.5°	1736.1	1787.2	1953.1	2470.1	3504.1	5138.1	7340.1	10729.4	15714.3	18050.3	19167.3
25°	1512.7	1499.9	1608.4	1831.8	2738.2	4467.9	6957.2	11380.4	17456.8	20322.6	21324.7
27.5°	1378.7	1378.7	1429.7	1589.3	2272.3	4033.9	6714.6	11846.3	19212.0	22320.4	22862.9
30°	1308.5	1321.2	1468.0	1519.1	1889.3	3516.9	6312.5	12318.7	20890.7	23596.9	24343.7
32.5°	1212.7	1161.7	1129.7	1257.4	1589.3	3050.9	5910.4	12516.5	22250.2	25160.7	25799.0
35°	931.9	906.3	944.6	1040.4	1365.9	2655.2	5463.6	12739.9	23813.9	26973.4	27101.1
37.5°	842.5	836.1	861.7	944.6	1148.9	2310.5	5144.5	12682.5	25007.5	28473.3	28128.7
40°	778.7	778.7	797.8	868.1	1027.6	2068.0	4812.6	12631.4	26162.8	30158.4	29149.9
42.5°	727.6	727.6	759.5	804.2	976.6	1908.4	4563.6	12561.2	27133.0	31192.4	29749.9
45°	657.4	676.6	727.6	772.3	989.3	1799.9	4378.5	12293.1	27464.9	31179.6	29462.7
47.5°	606.4	631.9	683.0	746.8	893.6	1768.0	4250.9	12057.0	27350.0	30413.7	28562.7
50°	548.9	580.8	651.0	759.5	759.5	1704.2	4116.9	12267.6	27267.0	29820.1	27701.0
52°	510.6	536.1	625.5	740.4	663.8	1570.2	4033.9	12676.1	27605.3	29743.5	27318.1
52.5°	504.2	523.4	606.4	727.6	631.9	1544.6	3976.4	12771.8	27713.8	29552.0	27579.8
55°	446.8	472.3	555.3	568.1	517.0	1270.2	3791.3	12988.8	27177.6	29175.4	27330.8
57.5°	421.3	434.0	491.5	465.9	446.8	957.4	3261.6	12650.6	24139.5	25913.9	25428.8
60°	389.3	402.1	459.6	363.8	376.6	670.2	2451.0	10984.7	19384.3	21592.8	22467.2
62.5°	376.6	370.2	434.0	293.6	319.1	485.1	1729.7	8929.4	14935.6	17775.9	19288.6
65°	331.9	325.5	312.8	248.9	274.5	376.6	1034.0	5827.4	10525.1	13448.4	14278.2
67.5°	255.3	268.1	229.8	197.9	229.8	293.6	574.4	2610.5	5521.1	8067.8	8738.0
70°	178.7	191.5	185.1	172.3	204.2	242.5	331.9	893.6	2285.0	4238.1	4672.2
72.5°	108.5	134.0	140.4	146.8	178.7	210.6	236.2	287.2	606.4	1499.9	1863.8
75°	63.8	89.4	108.5	127.7	146.8	178.7	197.9	204.2	210.6	280.8	453.2
77.5°	44.7	63.8	95.7	121.3	146.8	178.7	210.6	223.4	210.6	197.9	210.6
80°	38.3	63.8	89.4	114.9	153.2	185.1	210.6	210.6	204.2	178.7	191.5
82.5°	38.3	63.8	95.7	121.3	146.8	178.7	204.2	210.6	191.5	178.7	185.1
85°	44.7	70.2	102.1	127.7	159.6	146.8	134.0	108.5	102.1	83.0	89.4
87.5°	44.7	63.8	63.8	70.2	76.6	76.6	76.6	70.2	57.4	51.1	51.1
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: P533359

CATALOG NUMBER: GALN-SA8D-735-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2	16314.2
2.5°	17827.0	18337.6	18318.4	18331.2	18254.6	17737.6	17488.7	16856.8	17035.5	16958.9
5°	18509.9	19014.1	19448.2	19397.1	18809.9	18107.8	17067.4	16084.5	15816.4	15420.7
7.5°	17827.0	19039.7	19441.8	19384.3	18516.3	17616.3	15956.8	14973.9	14507.9	14246.2
10°	16741.9	18146.1	18643.9	18746.1	18158.9	16792.9	15267.5	13690.9	13442.0	12988.8
12.5°	16122.8	17144.0	17450.4	17724.8	17520.6	16499.3	14744.1	13231.4	12886.7	12586.7
15°	15618.5	16224.9	16352.5	16665.3	16786.6	16237.7	15018.6	13729.2	12880.3	12848.4
17.5°	16084.5	15835.5	15369.6	15465.3	15848.3	16244.0	15727.0	14712.2	13888.8	13786.7
20°	16856.8	15758.9	14705.8	14942.0	15261.1	16473.8	16799.3	16084.5	15612.1	15350.5
22.5°	17744.0	15893.0	14495.2	14610.1	15216.4	16990.8	18535.4	18139.7	17258.9	16882.3
25°	19384.3	16263.2	14661.1	14737.7	15567.5	17712.1	20105.6	20399.2	19875.8	19799.2
27.5°	20986.4	17220.6	15024.9	14852.6	15746.2	18414.2	21056.6	22633.1	21714.0	21535.3
30°	21803.4	17999.3	15567.5	15273.9	16486.6	18841.8	21631.1	24088.4	23284.2	23201.2
32.5°	23054.4	18707.8	15988.7	15612.1	16901.5	19371.6	22703.4	25677.7	24899.0	24484.1
35°	23577.8	19480.1	16914.2	16473.8	18088.6	20112.0	23252.3	27094.7	26852.1	26450.0
37.5°	24586.3	20309.8	18005.7	17980.1	19524.8	21075.8	24241.6	29022.3	28977.6	28281.9
40°	24669.2	21216.2	19729.0	20533.2	21745.9	22754.4	25109.6	29558.4	30286.0	29813.7
42.5°	24796.9	22805.5	22709.7	23373.5	24413.9	24196.9	25141.6	29686.1	30796.6	30515.8
45°	24854.3	24394.8	25741.5	26967.0	27401.0	26086.2	24841.6	29443.5	31064.7	30362.6
47.5°	24394.8	25760.7	28192.5	30560.5	30688.1	27247.9	24713.9	29194.6	31224.3	30758.4
50°	24458.6	26616.0	30311.6	32430.6	31964.7	28275.5	24516.0	29041.4	31141.3	30828.6
52°	24305.4	26635.1	30611.5	32392.3	32066.8	27707.4	24177.8	28454.2	31064.7	31288.1
52.5°	24477.8	26520.2	30298.8	32417.9	31996.6	27988.2	24133.1	28779.7	31109.4	30656.2
55°	23884.2	25154.3	28467.0	29366.9	29303.1	25403.2	22760.8	27701.0	29941.4	29947.7
57.5°	21586.4	21803.4	22326.8	22307.6	22014.0	19971.5	19467.3	25473.5	26692.6	26028.8
60°	19020.5	15963.2	14552.6	13978.2	13652.6	13320.7	17220.6	23303.3	23418.2	23137.4
62.5°	16435.5	11067.6	9191.1	9031.6	9108.1	10320.9	16646.1	22441.7	21752.3	21146.0
65°	13263.3	8067.8	6676.3	6465.7	7212.5	8520.9	13473.9	17207.8	16148.3	15644.1
67.5°	8329.5	5884.9	4512.6	4116.9	5016.8	5865.7	8852.8	10812.3	9625.1	8929.4
70°	4940.2	3287.1	2042.5	1831.8	2061.6	3127.5	4959.4	5393.4	4461.5	4104.1
72.5°	1946.7	1206.3	568.1	485.1	504.2	1097.8	1825.5	1780.8	1346.8	1200.0
75°	523.4	363.8	197.9	159.6	134.0	204.2	293.6	191.5	70.2	89.4
77.5°	242.5	217.0	172.3	134.0	102.1	76.6	38.3	12.8	12.8	6.4
80°	210.6	185.1	159.6	134.0	102.1	63.8	31.9	6.4	6.4	6.4
82.5°	197.9	172.3	146.8	121.3	95.7	63.8	31.9	6.4	0.0	0.0
85°	83.0	108.5	121.3	114.9	102.1	63.8	31.9	6.4	0.0	0.0
87.5°	44.7	38.3	31.9	25.5	19.1	12.8	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

(END OF REPORT)