

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: P533617

Luminaire Tested: **GALN-SA9A-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533617
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-SA9A-740-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 22919 lumens
Efficiency: N/A
Efficacy: 83.6 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

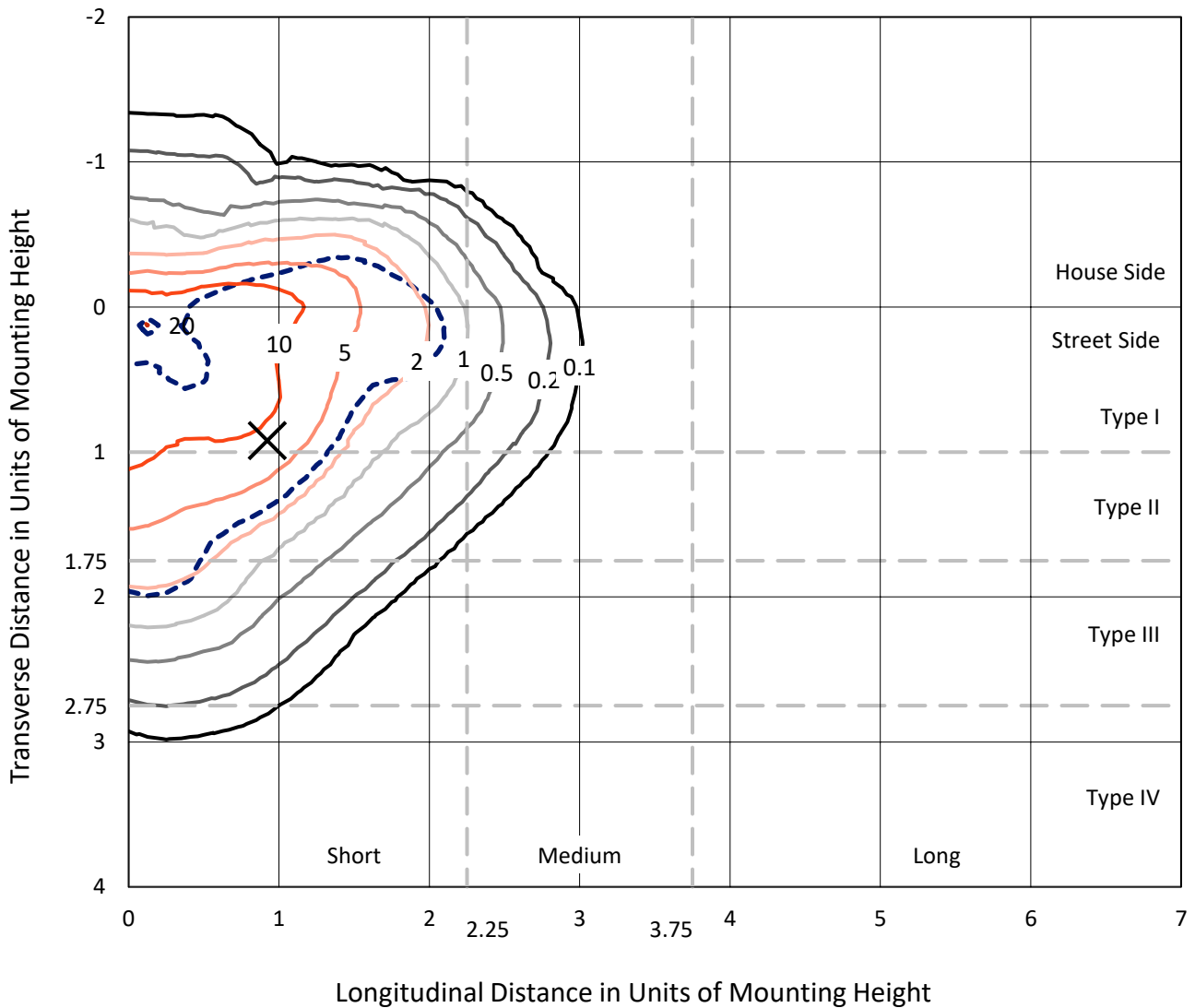
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

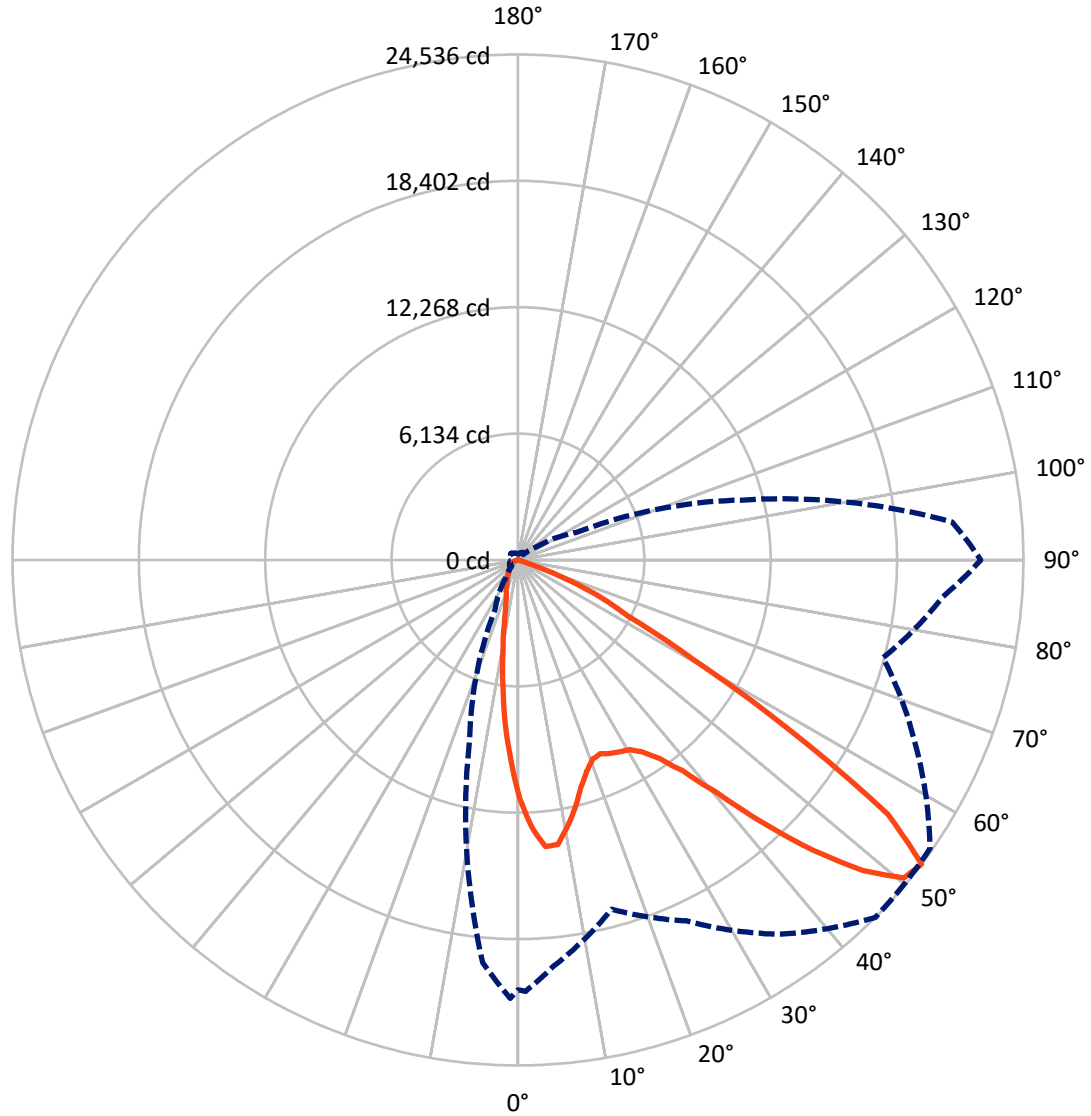
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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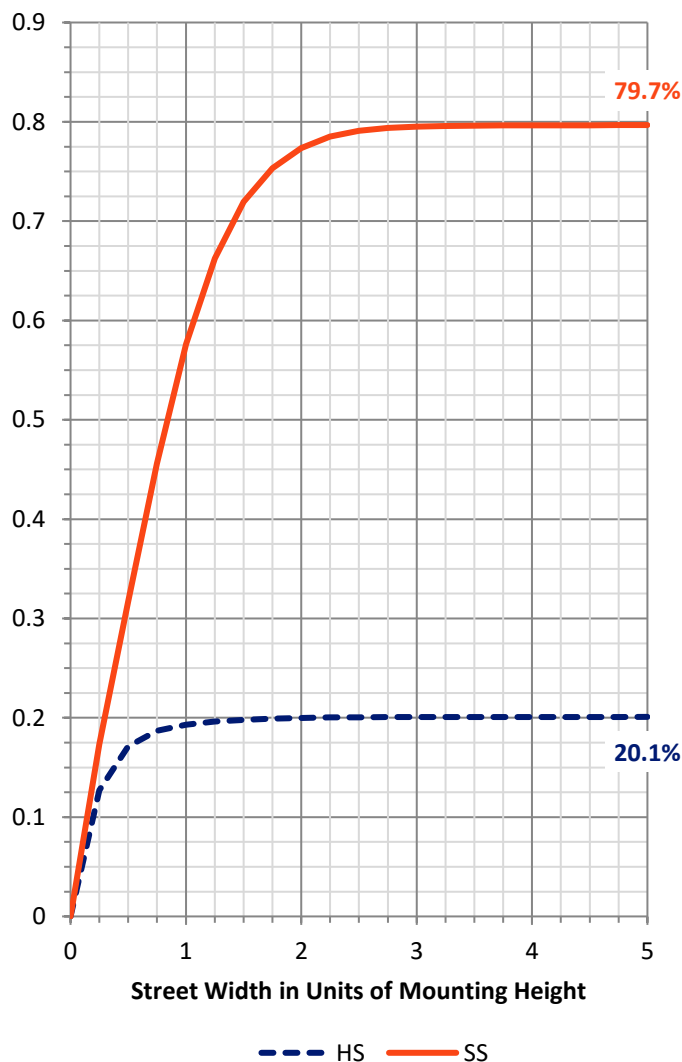
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4651.4	0.0	4651.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	18267.6	0.0	18267.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	22919.0	0.0	22919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	847.5	3.7
10°-20°	1672.1	7.3
20°-30°	2544.6	11.1
30°-40°	3803.3	16.6
40°-50°	5416.2	23.6
50°-60°	5822.3	25.4
60°-70°	2580.0	11.3
70°-80°	208.7	0.9
80°-90°	24.3	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°	22919.0	100.0
0°-180°	22919.0	100.0

Coefficient of Utilization

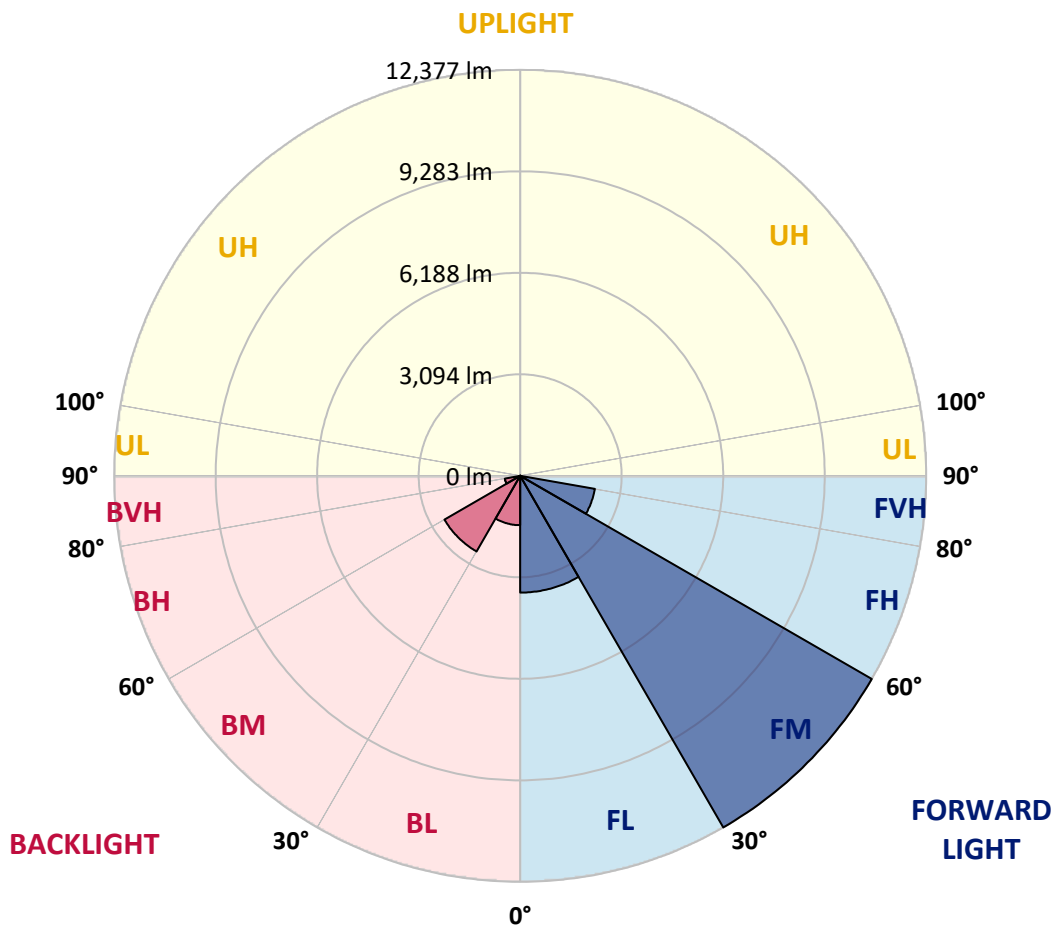


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3559.8	15.5			
FM (30°-60°)	12377.0	54.0			
FH (60°-80°)	2312.8	10.1			G2/5000
FVH (80°-90°)	18.0	0.1			G1/100
BL (0°-30°)	1504.5	6.6	B3/2500		
BM (30°-60°)	2664.7	11.6	B3/5000		
BH (60°-80°)	475.9	2.1	B1/500		G1/500
BVH (80°-90°)	6.3	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°	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0
2.5°	12297.2	12333.2	12531.6	12779.5	12910.2	13207.7	13000.4	13054.5	12941.8	12545.1	12234.1
5°	11923.0	11918.5	12170.9	12784.0	13365.5	13956.0	13974.0	13658.5	13104.1	12495.5	11625.5
7.5°	10796.1	10971.9	11233.3	12211.5	13288.9	13730.6	13942.5	13572.9	12720.9	11850.9	10908.8
10°	9944.1	10034.3	10476.0	11657.1	12445.9	13036.4	13167.2	12955.3	12301.7	11215.3	10160.5
12.5°	9452.8	9497.8	10016.2	11007.9	11841.9	12279.1	12342.2	12441.4	11972.6	10953.9	9687.2
15°	9457.3	9493.3	10192.0	11021.5	11350.5	11233.3	11440.7	11436.2	11639.0	10904.3	10083.9
17.5°	10137.9	10178.5	10809.6	11219.8	11075.6	10800.6	10787.1	10994.4	11422.7	11521.8	10683.4
20°	11310.0	11404.6	11868.9	11846.4	11035.0	10480.5	10327.3	10485.0	11481.3	12044.7	11891.5
22.5°	12887.7	13018.4	13343.0	12720.9	11219.8	10264.2	10214.6	10521.1	11868.9	13212.2	13261.8
25°	14717.8	14938.7	15096.5	14298.6	11877.9	10638.3	10403.9	10931.3	12391.8	14478.9	15006.3
27.5°	15930.4	16160.3	16124.2	14983.8	12319.7	10737.5	10539.1	11030.5	12847.1	14780.9	15916.9
30°	16877.0	17016.8	17269.2	15353.4	12761.5	11017.0	10678.9	11449.7	12995.9	15303.8	17016.8
32.5°	17981.4	18076.1	18094.1	16007.0	13442.1	11368.6	11111.6	11972.6	13654.0	15804.2	17990.5
35°	19094.9	19234.6	18941.6	16813.9	13861.4	12022.2	11832.9	12878.7	14181.4	16322.6	19063.3
37.5°	20302.9	20375.1	19698.9	17147.5	14460.9	13086.0	12982.3	13856.8	15096.5	17260.2	20253.4
40°	21317.2	21384.8	20505.8	17557.7	15092.0	14573.6	14839.5	15723.1	16340.6	17868.7	20848.4
42.5°	21880.7	22038.4	20776.3	17332.3	16358.7	16259.5	17440.5	17751.5	17783.1	18040.0	21380.3
45°	22033.9	21961.8	20330.0	17517.1	17467.6	19031.8	20104.6	20514.8	19216.6	18355.6	21515.5
47.5°	21326.2	21420.9	19671.9	17354.9	18923.6	21132.4	22520.8	23282.6	20284.9	18080.6	21182.0
50°	20753.7	20632.0	19460.0	17237.7	19315.7	22124.1	24265.3	24436.6	21267.6	18418.7	20816.8
52.5°	20866.4	20943.0	19798.1	17548.7	19324.8	22182.7	24535.7	24418.5	21299.2	18342.1	20686.1
55°	21105.3	20767.2	19653.8	16863.5	18031.0	20546.4	21777.0	21596.7	19658.3	17526.2	20366.0
57.5°	18211.3	18734.2	18071.6	15055.9	14799.0	15479.6	15457.1	16011.6	14663.7	15083.0	18540.4
60°	14780.9	14871.1	15119.0	12878.7	10241.6	10007.2	9682.7	9331.1	9867.5	12896.7	16863.5
62.5°	13000.4	12892.2	13775.7	11715.7	7230.4	6053.9	5999.8	6216.2	7613.6	12301.7	15817.7
65°	9448.3	9583.5	10223.6	9092.1	5427.3	4620.5	4539.3	5179.4	6162.1	9858.5	12071.8
67.5°	5769.9	6031.4	6090.0	5607.7	3682.8	2925.5	2808.3	3389.8	4449.2	6378.5	7077.2
70°	2664.1	2979.6	3277.1	3060.8	2132.2	1203.6	1136.0	1424.5	2244.9	3669.3	3755.0
72.5°	806.9	811.4	1136.0	1185.5	689.7	270.5	238.9	315.5	761.8	1212.6	1275.7
75°	58.6	63.1	153.3	175.8	130.7	67.6	72.1	85.6	162.3	270.5	202.8
77.5°	4.5	4.5	4.5	22.5	40.6	45.1	58.6	67.6	85.6	99.2	90.2
80°	4.5	0.0	4.5	18.0	31.6	45.1	54.1	63.1	67.6	76.6	67.6
82.5°	0.0	0.0	0.0	13.5	31.6	45.1	49.6	67.6	76.6	90.2	76.6
85°	0.0	0.0	0.0	13.5	31.6	49.6	45.1	22.5	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°	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0
2.5°	12288.1	12112.3	11711.2	11508.3	11030.5	10962.9	10494.1	10417.4	10259.7	10174.0	9966.7
5°	11242.3	11030.5	10376.9	9826.9	9186.8	8740.5	8398.0	8086.9	7906.6	7739.8	7816.5
7.5°	10390.4	9772.8	9047.1	8127.5	7388.2	6910.4	6387.5	5959.3	5706.8	5535.5	5576.1
10°	9497.8	9096.7	8086.9	7054.6	6162.1	5824.0	5413.8	5084.8	4728.6	4422.1	4277.9
12.5°	9218.4	8623.3	7356.7	6306.4	5630.2	5301.1	4832.3	4453.7	3998.4	3624.2	3493.5
15°	9267.9	8695.5	7158.3	6035.9	5238.0	4670.0	4111.1	3642.3	3141.9	2880.5	2745.2
17.5°	10074.8	9083.1	7289.0	5751.9	4692.6	3903.7	3214.0	2619.0	2244.9	1974.4	1915.8
20°	11066.5	9921.6	7568.5	5544.5	4246.3	3105.8	2348.5	1834.7	1523.6	1478.5	1465.0
22.5°	12518.0	11291.9	8168.1	5404.8	3700.9	2420.7	1609.3	1334.3	1248.6	1239.6	1244.1
25°	14546.5	13009.4	8821.7	5287.6	3290.7	1866.2	1316.3	1131.4	1104.4	1090.9	1113.4
27.5°	15425.5	14046.2	9168.8	5035.2	2916.5	1681.4	1298.2	1122.4	1045.8	1023.3	1036.8
30°	16511.9	14735.9	9714.2	4602.4	2366.6	1383.9	1212.6	1221.6	1185.5	1072.8	1036.8
32.5°	17954.4	15596.8	9989.2	4295.9	2114.1	1145.0	888.0	815.9	910.6	928.6	960.2
35°	18878.5	16471.3	10128.9	4115.6	1983.4	978.2	752.8	685.2	662.6	667.1	685.2
37.5°	20595.9	17652.4	10304.7	3926.3	1884.2	852.0	680.7	617.6	586.0	586.0	604.0
40°	21623.7	18590.0	10543.6	3822.6	1785.1	775.3	617.6	563.5	536.4	536.4	545.4
42.5°	21880.7	19054.3	10462.5	3786.5	1672.4	757.3	563.5	522.9	491.3	486.8	482.3
45°	22340.4	19762.0	10476.0	3745.9	1555.2	689.7	531.9	486.8	441.8	437.3	432.7
47.5°	22845.3	20271.4	10503.1	3588.2	1442.5	577.0	554.5	450.8	396.7	387.7	387.7
50°	22412.6	20677.1	10737.5	3430.4	1298.2	468.8	545.4	423.7	351.6	338.1	342.6
52.5°	22466.7	21154.9	11233.3	3209.5	1117.9	374.1	441.8	401.2	320.1	297.5	302.0
55°	21601.2	20650.0	11300.9	2975.1	874.5	288.5	338.1	351.6	270.5	261.4	261.4
57.5°	18594.5	17485.6	9971.2	2411.7	577.0	238.9	243.4	306.5	234.4	225.4	229.9
60°	15912.4	14037.2	8023.8	1591.2	360.6	189.3	175.8	311.0	207.4	202.8	216.4
62.5°	14506.0	11535.4	6085.5	987.2	247.9	144.2	121.7	252.4	180.3	180.3	198.3
65°	10480.5	7748.8	3538.6	518.4	175.8	112.7	90.2	144.2	148.8	153.3	162.3
67.5°	6491.2	3912.7	1492.1	252.4	117.2	76.6	58.6	90.2	99.2	99.2	108.2
70°	3205.0	1559.7	495.9	144.2	90.2	63.1	40.6	49.6	49.6	45.1	49.6
72.5°	991.7	468.8	126.2	90.2	63.1	40.6	22.5	18.0	9.0	0.0	4.5
75°	112.7	90.2	81.1	63.1	40.6	18.0	4.5	0.0	0.0	0.0	0.0
77.5°	67.6	76.6	76.6	63.1	40.6	13.5	0.0	0.0	0.0	0.0	0.0
80°	54.1	58.6	63.1	58.6	36.1	18.0	0.0	0.0	0.0	0.0	0.0
82.5°	67.6	76.6	85.6	76.6	49.6	22.5	9.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	13.5	4.5	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°	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0
2.5°	9881.0	9781.8	9921.6	9714.2	9709.7	9714.2	9655.6	9601.5	9687.2	9917.1	9939.6
5°	7541.5	7753.3	7821.0	8041.8	7920.1	7739.8	7775.9	7654.2	7951.7	8082.4	7978.7
7.5°	5490.4	5476.9	5932.2	5959.3	6017.9	6022.4	6013.3	5774.4	5531.0	5585.1	5747.4
10°	4259.8	4029.9	4250.8	4228.3	4372.5	4332.0	4390.6	4133.6	4219.3	4219.3	4322.9
12.5°	3471.0	3227.6	3187.0	3128.4	3187.0	3209.5	3232.1	3182.5	3326.7	3394.3	3466.5
15°	2650.6	2515.3	2479.3	2366.6	2384.6	2447.7	2501.8	2524.3	2479.3	2582.9	2592.0
17.5°	1924.8	1920.3	1942.8	1938.3	1920.3	1906.8	1902.3	1843.7	1825.6	1834.7	1870.7
20°	1460.5	1496.6	1573.2	1649.8	1690.4	1640.8	1573.2	1474.0	1433.5	1442.5	1447.0
22.5°	1248.6	1302.7	1406.4	1492.1	1532.6	1442.5	1320.8	1235.1	1217.1	1212.6	1208.1
25°	1131.4	1194.6	1271.2	1298.2	1293.7	1239.6	1149.5	1113.4	1104.4	1095.4	1054.8
27.5°	1068.3	1090.9	1104.4	1136.0	1149.5	1113.4	1090.9	1036.8	1027.8	1027.8	1000.7
30°	1032.3	1018.8	1036.8	1014.2	1032.3	1005.2	1009.7	1009.7	987.2	996.2	996.2
32.5°	960.2	964.7	964.7	919.6	933.1	901.6	933.1	960.2	964.7	969.2	1005.2
35°	703.2	784.3	824.9	824.9	838.4	815.9	811.4	779.8	739.3	698.7	680.7
37.5°	617.6	649.1	703.2	734.8	757.3	739.3	698.7	649.1	626.6	608.5	590.5
40°	549.9	577.0	613.1	649.1	694.2	671.7	608.5	586.0	559.0	559.0	540.9
42.5°	495.9	509.4	531.9	586.0	635.6	590.5	545.4	527.4	513.9	509.4	504.9
45°	446.3	450.8	473.3	518.4	577.0	531.9	486.8	464.3	468.8	473.3	468.8
47.5°	401.2	410.2	423.7	477.8	513.9	491.3	441.8	428.2	428.2	428.2	432.7
50°	347.1	369.6	396.7	441.8	468.8	455.3	414.7	396.7	387.7	387.7	392.2
52.5°	311.0	329.1	365.1	419.2	455.3	432.7	392.2	365.1	347.1	342.6	351.6
55°	270.5	302.0	360.6	401.2	450.8	428.2	383.2	351.6	320.1	315.5	315.5
57.5°	243.4	293.0	347.1	396.7	437.3	419.2	383.2	342.6	302.0	297.5	297.5
60°	229.9	284.0	338.1	383.2	437.3	410.2	378.7	333.6	288.5	288.5	284.0
62.5°	216.4	266.0	320.1	365.1	419.2	396.7	365.1	320.1	275.0	275.0	266.0
65°	180.3	229.9	266.0	306.5	365.1	342.6	311.0	279.5	243.4	234.4	238.9
67.5°	126.2	157.8	193.8	234.4	270.5	261.4	247.9	225.4	193.8	189.3	184.8
70°	63.1	85.6	117.2	157.8	189.3	180.3	171.3	153.3	135.2	130.7	130.7
72.5°	9.0	27.0	49.6	72.1	99.2	103.7	99.2	94.7	90.2	85.6	90.2
75°	0.0	0.0	0.0	18.0	40.6	49.6	58.6	67.6	67.6	58.6	72.1
77.5°	0.0	0.0	0.0	0.0	4.5	22.5	45.1	58.6	72.1	63.1	85.6
80°	0.0	0.0	0.0	0.0	4.5	27.0	45.1	63.1	72.1	63.1	90.2
82.5°	0.0	0.0	0.0	0.0	4.5	31.6	45.1	58.6	67.6	63.1	81.1
85°	0.0	0.0	0.0	0.0	13.5	27.0	18.0	9.0	4.5	4.5	13.5
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: P533617

CATALOG NUMBER: GALN-SA9A-740-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0	11621.0
2.5°	10065.8	10385.9	10728.5	10859.2	11264.9	11571.4	11778.8	12225.0	12292.7	12297.2
5°	8086.9	8249.2	8835.2	9110.2	9714.2	10183.0	10683.4	11404.6	11887.0	11923.0
7.5°	5747.4	6198.2	6446.1	7162.8	7906.6	8641.4	9385.2	10223.6	10782.6	10796.1
10°	4625.0	4918.0	5359.7	5896.1	6522.7	7271.0	8262.7	9236.4	9804.4	9944.1
12.5°	3723.4	4237.3	4742.2	5296.6	5774.4	6337.9	7406.2	8704.5	9173.3	9452.8
15°	2866.9	3335.7	3930.8	4579.9	5120.8	5873.6	7090.7	8573.8	9362.6	9457.3
17.5°	2114.1	2533.4	3083.3	3696.4	4507.8	5576.1	7144.8	9236.4	9980.2	10137.9
20°	1519.1	1762.5	2195.3	2907.5	3939.8	5229.0	7198.9	9908.1	11039.5	11310.0
22.5°	1203.6	1302.7	1586.7	2217.8	3304.2	4863.9	7582.0	11192.8	12495.5	12887.7
25°	1045.8	1099.9	1235.1	1749.0	2903.0	4827.8	8195.1	12734.4	14433.8	14717.8
27.5°	1009.7	1018.8	1136.0	1604.8	2686.6	4588.9	8429.5	13829.8	15641.9	15930.4
30°	1063.8	1208.1	1217.1	1356.8	2285.4	4115.6	8551.2	14889.1	16665.2	16877.0
32.5°	919.6	874.5	906.1	1050.3	2010.5	3840.6	8781.1	15813.2	17832.7	17981.4
35°	640.1	671.7	743.8	910.6	1758.0	3552.1	8839.7	16832.0	18941.6	19094.9
37.5°	590.5	608.5	667.1	775.3	1546.2	3389.8	8758.6	17575.7	20091.1	20302.9
40°	549.9	572.5	604.0	703.2	1388.4	3209.5	8645.9	18247.4	20794.3	21317.2
42.5°	518.4	536.4	563.5	671.7	1253.2	3029.2	8488.1	19194.0	21425.4	21880.7
45°	482.3	509.4	540.9	653.6	1176.5	2907.5	8370.9	19135.4	21790.5	22033.9
47.5°	446.3	491.3	527.4	608.5	1154.0	2848.9	8420.5	18914.5	21493.0	21326.2
50°	410.2	468.8	531.9	504.9	1099.9	2731.7	8479.1	19216.6	20785.3	20753.7
52.5°	378.7	446.3	495.9	414.7	978.2	2619.0	9047.1	19613.3	21285.6	20866.4
55°	333.6	401.2	396.7	333.6	793.4	2533.4	9493.3	19622.3	20947.5	21105.3
57.5°	302.0	356.1	311.0	279.5	586.0	2118.6	8767.6	16453.3	17931.9	18211.3
60°	279.5	347.1	234.4	220.9	383.2	1528.1	7654.2	12743.4	14253.5	14780.9
62.5°	256.9	329.1	184.8	180.3	266.0	1086.4	6292.8	10665.4	12283.6	13000.4
65°	225.4	234.4	148.8	139.7	189.3	586.0	3831.6	7343.1	9182.3	9448.3
67.5°	184.8	180.3	121.7	112.7	126.2	284.0	1690.4	3678.3	5323.7	5769.9
70°	148.8	148.8	103.7	90.2	90.2	130.7	441.8	1465.0	2407.1	2664.1
72.5°	108.2	112.7	81.1	72.1	67.6	63.1	72.1	293.0	631.1	806.9
75°	94.7	99.2	81.1	63.1	49.6	40.6	31.6	27.0	36.1	58.6
77.5°	103.7	103.7	85.6	58.6	45.1	31.6	18.0	9.0	9.0	4.5
80°	130.7	135.2	112.7	76.6	54.1	36.1	22.5	9.0	4.5	4.5
82.5°	139.7	153.3	126.2	94.7	67.6	40.6	22.5	4.5	0.0	0.0
85°	36.1	58.6	99.2	85.6	67.6	40.6	22.5	4.5	0.0	0.0
87.5°	0.0	4.5	13.5	13.5	18.0	18.0	13.5	4.5	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)