

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: P647664

Luminaire Tested: **GALN-SA9D-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647664
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-SA9D-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA 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: 30356.9 lumens
Efficiency: N/A
Efficacy: 55.0 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

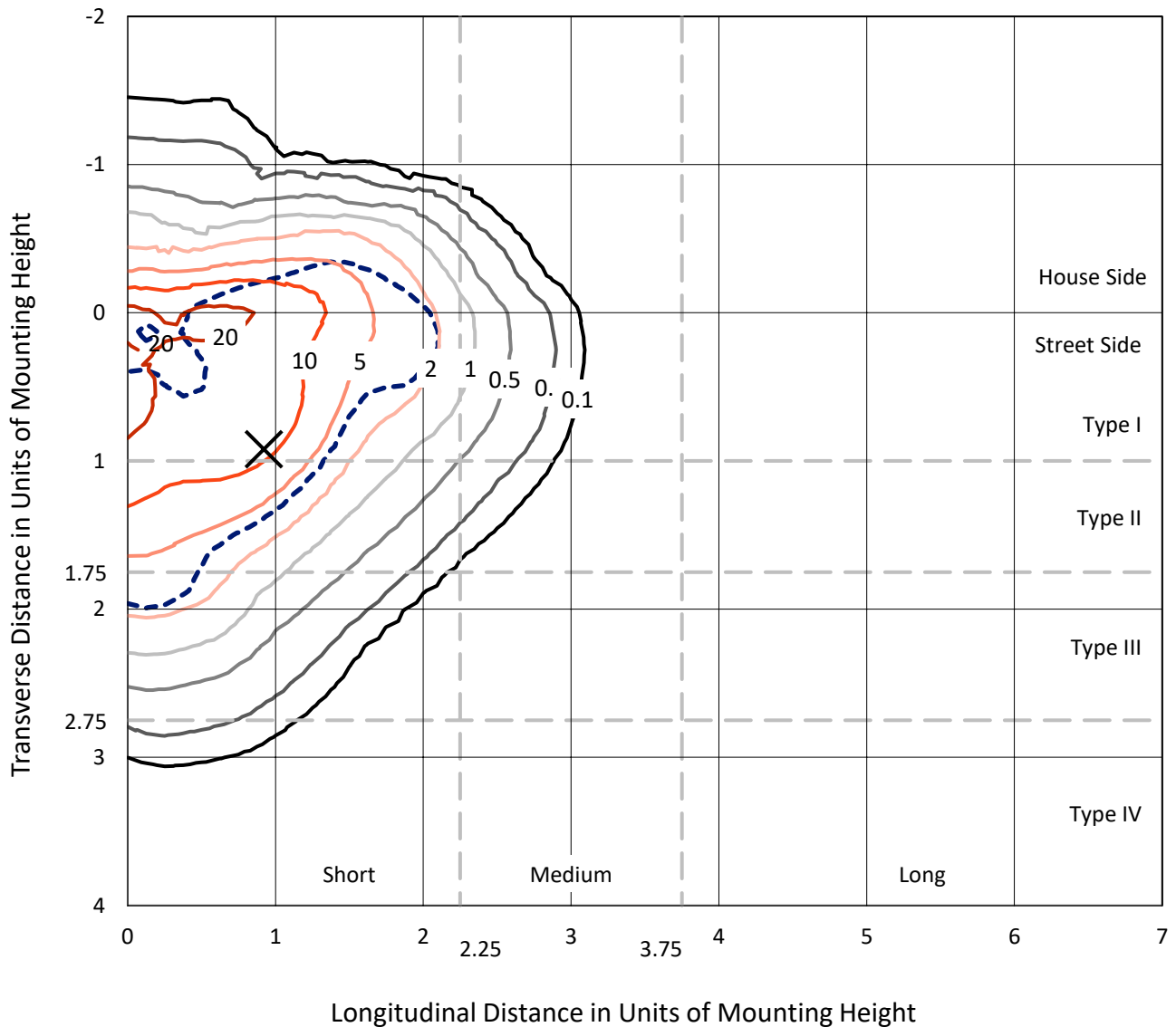
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

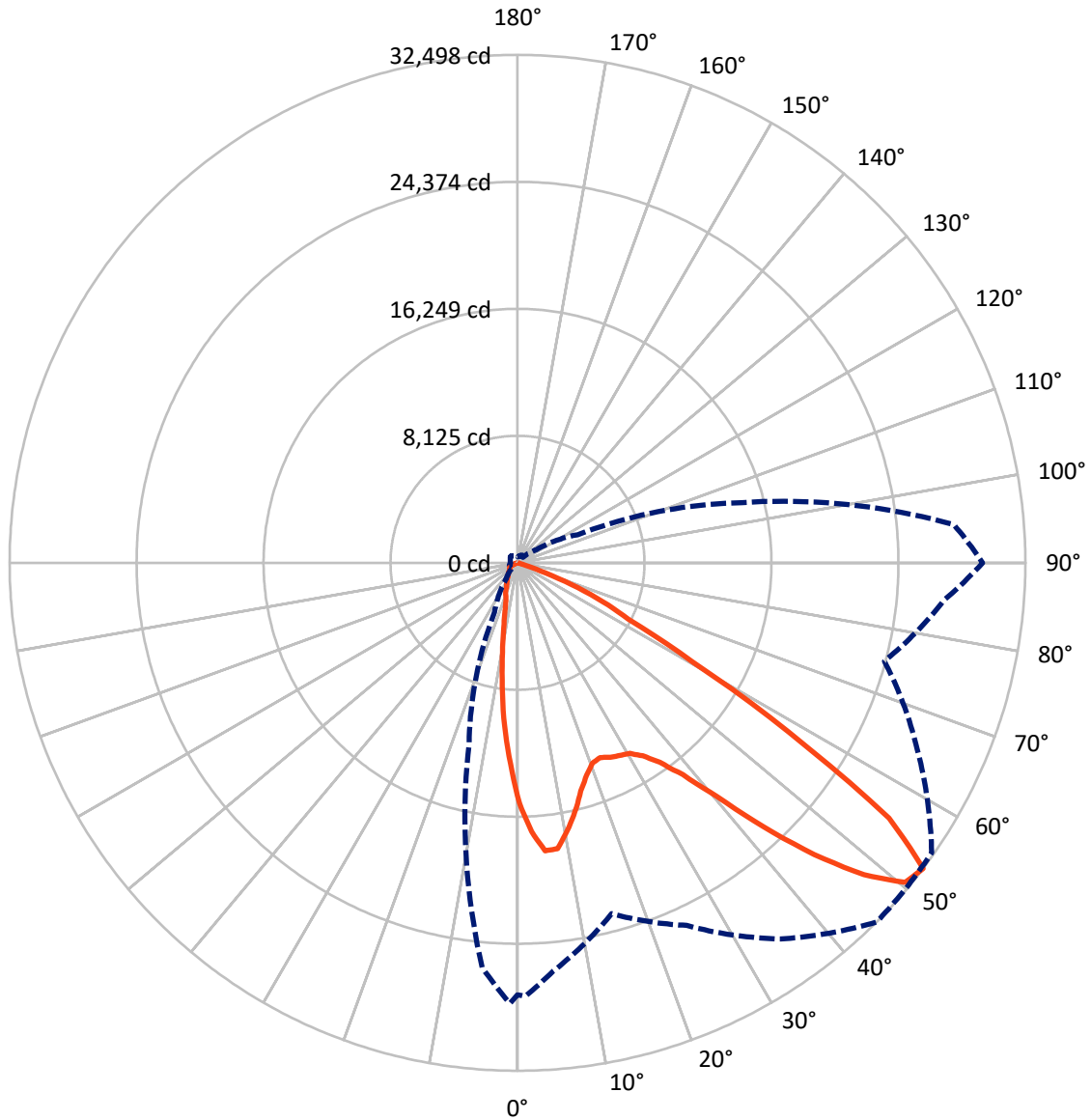
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.6 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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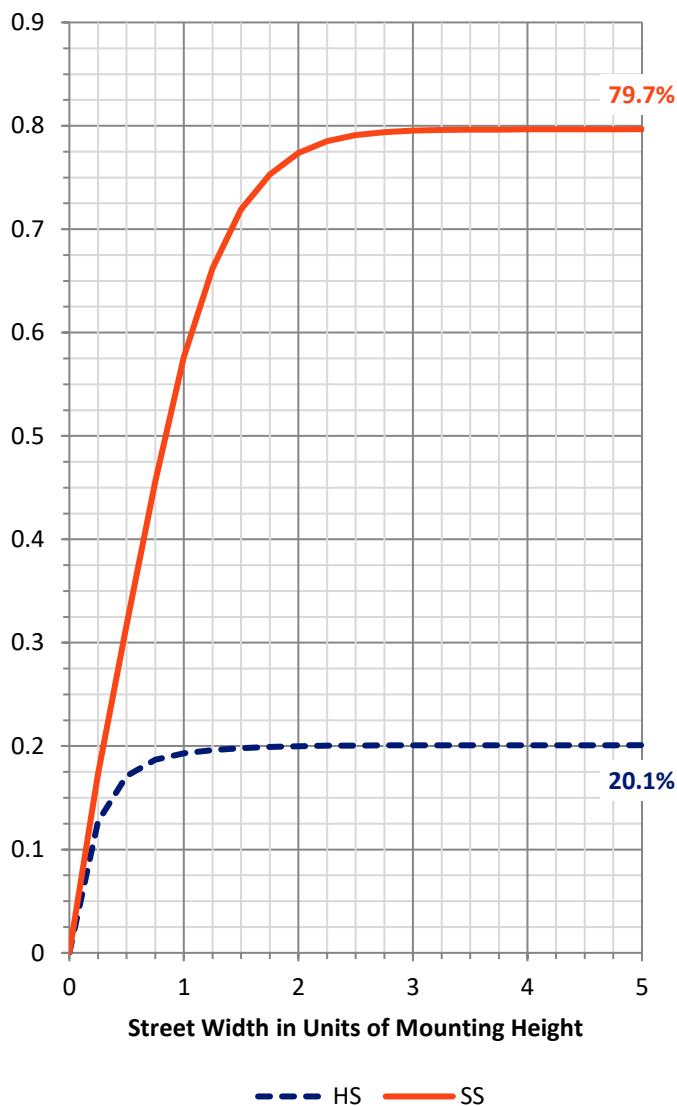
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6161.0	0.0	6161.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	24196.0	0.0	24196.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	30356.9	0.0	30356.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1122.5	3.7
10°-20°	2214.7	7.3
20°-30°	3370.5	11.1
30°-40°	5037.5	16.6
40°-50°	7173.9	23.6
50°-60°	7711.7	25.4
60°-70°	3417.3	11.3
70°-80°	276.5	0.9
80°-90°	32.2	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°	30356.9	100.0
0°-180°	30356.9	100.0

Coefficient of Utilization

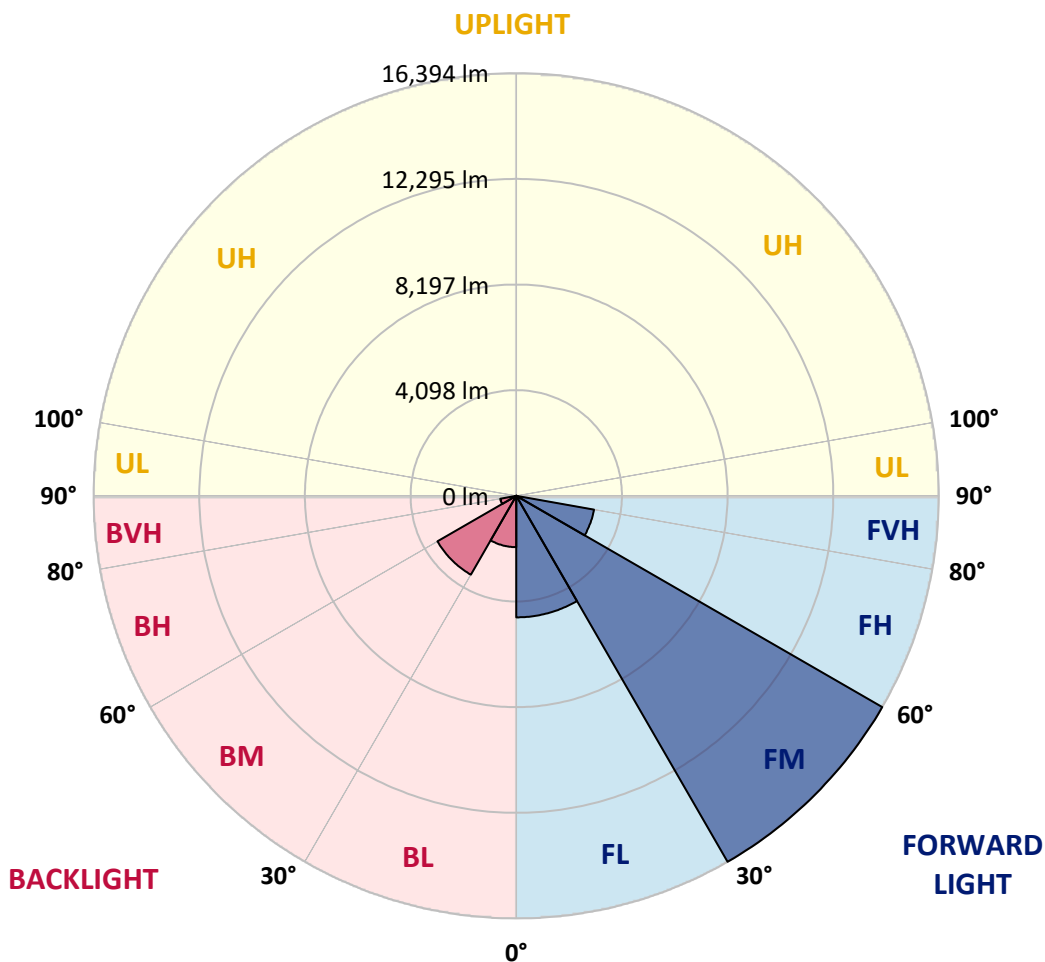


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4715.0	15.5			
FM (30°-60°)	16393.7	54.0			
FH (60°-80°)	3063.4	10.1			G2/5000
FVH (80°-90°)	23.9	0.1			G1/100
BL (0°-30°)	1992.7	6.6	B3/2500		
BM (30°-60°)	3529.5	11.6	B3/5000		
BH (60°-80°)	630.4	2.1	B2/1000		G2/1000
BVH (80°-90°)	8.4	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°	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4
2.5°	16288.0	16335.7	16598.4	16926.8	17099.9	17494.0	17219.4	17291.1	17141.7	16616.4	16204.3
5°	15792.4	15786.5	16120.8	16932.8	17703.0	18485.1	18509.0	18091.1	17356.7	16550.7	15398.3
7.5°	14299.8	14532.6	14878.9	16174.5	17601.5	18186.7	18467.3	17977.7	16849.2	15696.9	14449.0
10°	13171.3	13290.7	13875.8	15440.1	16485.0	17267.2	17440.3	17159.7	16293.9	14855.0	13457.9
12.5°	12520.5	12580.1	13266.8	14580.3	15684.9	16264.1	16347.7	16479.0	15858.1	14508.7	12830.9
15°	12526.4	12574.2	13499.7	14598.3	15034.1	14878.9	15153.6	15147.6	15416.3	14443.1	13356.3
17.5°	13428.0	13481.8	14317.6	14860.9	14669.9	14305.7	14287.8	14562.5	15129.7	15261.0	14150.5
20°	14980.4	15105.8	15720.8	15690.9	14616.2	13881.8	13678.8	13887.8	15207.3	15953.6	15750.6
22.5°	17070.1	17243.3	17673.2	16849.2	14860.9	13595.2	13529.5	13935.5	15720.8	17500.0	17565.7
25°	19494.2	19786.8	19995.7	18939.0	15732.7	14090.8	13780.3	14478.8	16413.3	19177.8	19876.3
27.5°	21100.3	21404.8	21357.0	19846.5	16317.8	14222.1	13959.4	14610.2	17016.4	19577.8	21082.4
30°	22354.2	22539.3	22873.6	20336.1	16902.9	14592.3	14144.5	15165.5	17213.4	20270.4	22539.3
32.5°	23817.0	23942.3	23966.2	21201.8	17804.5	15058.0	14717.7	15858.1	18085.1	20933.1	23828.9
35°	25291.7	25476.8	25088.7	22270.6	18359.8	15923.7	15673.0	17058.2	18783.7	21619.7	25249.9
37.5°	26891.8	26987.4	26091.8	22712.4	19153.9	17332.8	17195.5	18353.8	19995.7	22861.6	26826.2
40°	28235.3	28324.8	27160.5	23255.7	19989.8	19303.1	19655.4	20825.7	21643.6	23667.7	27614.3
42.5°	28981.6	29190.6	27518.8	22957.2	21667.6	21536.2	23100.5	23512.5	23554.3	23894.6	28318.8
45°	29184.6	29089.1	26927.7	23202.0	23136.3	25208.1	26629.1	27172.4	25452.9	24312.5	28498.0
47.5°	28247.2	28372.6	26056.0	22987.1	25064.8	27990.4	29829.4	30838.5	26867.9	23948.3	28056.1
50°	27488.9	27327.7	25775.3	22831.8	25584.3	29304.0	32140.0	32366.9	28169.6	24396.1	27572.5
52.5°	27638.2	27739.7	26223.1	23243.7	25596.2	29381.6	32498.3	32343.1	28211.4	24294.6	27399.4
55°	27954.7	27506.9	26032.1	22336.2	23882.7	27214.3	28844.2	28605.4	26038.0	23213.9	26975.4
57.5°	24121.5	24814.1	23936.4	19942.0	19601.7	20503.2	20473.4	21207.8	19422.5	19977.9	24557.3
60°	19577.8	19697.2	20025.6	17058.2	13565.3	13254.9	12825.0	12359.3	13069.8	17082.1	22336.2
62.5°	17219.4	17076.1	18246.3	15517.7	9577.0	8018.6	7947.0	8233.6	10084.4	16293.9	20951.0
65°	12514.5	12693.6	13541.4	12042.9	7188.6	6119.9	6012.4	6860.3	8161.9	13057.9	15989.4
67.5°	7642.5	7988.7	8066.4	7427.5	4878.0	3875.0	3719.7	4490.0	5893.0	8448.5	9373.9
70°	3528.7	3946.6	4340.6	4054.1	2824.1	1594.2	1504.6	1886.7	2973.4	4860.1	4973.5
72.5°	1068.7	1074.7	1504.6	1570.3	913.5	358.2	316.4	418.0	1009.1	1606.1	1689.7
75°	77.6	83.6	203.0	232.9	173.1	89.6	95.5	113.5	214.9	358.2	268.6
77.5°	6.0	6.0	6.0	29.8	53.7	59.7	77.6	89.6	113.5	131.4	119.4
80°	6.0	0.0	6.0	23.9	41.8	59.7	71.6	83.6	89.6	101.5	89.6
82.5°	0.0	0.0	0.0	17.9	41.8	59.7	65.7	89.6	101.5	119.4	101.5
85°	0.0	0.0	0.0	17.9	41.8	65.7	59.7	29.8	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°	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4
2.5°	16276.0	16043.2	15511.8	15243.1	14610.2	14520.7	13899.7	13798.2	13589.2	13475.7	13201.1
5°	14890.9	14610.2	13744.5	13016.0	12168.2	11577.1	11123.4	10711.4	10472.5	10251.7	10353.1
7.5°	13762.4	12944.4	11983.1	10765.1	9785.9	9153.0	8460.4	7893.2	7558.8	7331.9	7385.7
10°	12580.1	12048.8	10711.4	9344.1	8161.9	7714.1	7170.8	6734.9	6263.2	5857.2	5666.2
12.5°	12210.0	11421.9	9744.1	8353.0	7457.4	7021.5	6400.6	5899.0	5296.0	4800.4	4627.3
15°	12275.7	11517.4	9481.4	7994.7	6937.9	6185.6	5445.2	4824.3	4161.6	3815.2	3636.1
17.5°	13344.4	12030.9	9654.5	7618.6	6215.5	5170.6	4257.1	3468.9	2973.4	2615.1	2537.5
20°	14658.0	13141.4	10024.7	7343.9	5624.4	4113.8	3110.7	2430.0	2018.1	1958.4	1940.4
22.5°	16580.5	14956.5	10818.9	7158.8	4901.9	3206.2	2131.6	1767.3	1653.9	1642.0	1647.9
25°	19267.4	17231.3	11684.6	7003.6	4358.6	2471.9	1743.4	1498.7	1462.8	1444.9	1474.8
27.5°	20431.6	18604.5	12144.3	6669.2	3863.0	2227.1	1719.5	1486.7	1385.2	1355.4	1373.2
30°	21870.5	19518.1	12866.8	6096.0	3134.6	1833.0	1606.1	1618.1	1570.3	1421.0	1373.2
32.5°	23781.1	20658.5	13231.0	5690.1	2800.2	1516.5	1176.2	1080.7	1206.1	1229.9	1271.7
35°	25005.1	21816.8	13416.1	5451.2	2627.1	1295.6	997.1	907.6	877.7	883.7	907.6
37.5°	27280.0	23381.1	13648.9	5200.5	2495.7	1128.5	901.5	818.0	776.2	776.2	800.1
40°	28641.3	24623.0	13965.4	5063.1	2364.3	1027.0	818.0	746.4	710.5	710.5	722.5
42.5°	28981.6	25238.0	13857.9	5015.3	2215.1	1003.1	746.4	692.6	650.8	644.8	638.8
45°	29590.6	26175.4	13875.8	4961.6	2059.9	913.5	704.5	644.8	585.1	579.2	573.2
47.5°	30259.3	26850.1	13911.6	4752.7	1910.6	764.2	734.4	597.0	525.4	513.5	513.5
50°	29686.1	27387.5	14222.1	4543.7	1719.5	620.9	722.5	561.3	465.7	447.8	453.7
52.5°	29757.8	28020.3	14878.9	4251.1	1480.7	495.6	585.1	531.4	423.9	394.1	400.0
55°	28611.4	27351.6	14968.5	3940.6	1158.3	382.1	447.8	465.7	358.2	346.3	346.3
57.5°	24629.0	23160.2	13207.1	3194.3	764.2	316.4	322.4	406.0	310.5	298.6	304.5
60°	21076.4	18592.6	10627.8	2107.7	477.6	250.8	232.9	412.0	274.7	268.6	286.6
62.5°	19213.6	15278.9	8060.4	1307.6	328.4	191.1	161.2	334.3	238.8	238.8	262.7
65°	13881.8	10263.6	4687.0	686.6	232.9	149.2	119.4	191.1	197.0	203.0	214.9
67.5°	8597.7	5182.5	1976.3	334.3	155.3	101.5	77.6	119.4	131.4	131.4	143.3
70°	4245.1	2065.9	656.8	191.1	119.4	83.6	53.7	65.7	65.7	59.7	65.7
72.5°	1313.6	620.9	167.2	119.4	83.6	53.7	29.8	23.9	12.0	0.0	6.0
75°	149.2	119.4	107.5	83.6	53.7	23.9	6.0	0.0	0.0	0.0	0.0
77.5°	89.6	101.5	101.5	83.6	53.7	17.9	0.0	0.0	0.0	0.0	0.0
80°	71.6	77.6	83.6	77.6	47.8	23.9	0.0	0.0	0.0	0.0	0.0
82.5°	89.6	101.5	113.5	101.5	65.7	29.8	12.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	17.9	6.0	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°	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4
2.5°	13087.7	12956.3	13141.4	12866.8	12860.8	12866.8	12789.1	12717.5	12830.9	13135.5	13165.3
5°	9988.9	10269.5	10359.1	10651.7	10490.5	10251.7	10299.4	10138.2	10532.2	10705.4	10568.1
7.5°	7272.3	7254.3	7857.4	7893.2	7970.9	7976.8	7964.8	7648.4	7326.0	7397.6	7612.6
10°	5642.3	5337.8	5630.3	5600.5	5791.5	5737.8	5815.4	5475.1	5588.5	5588.5	5725.8
12.5°	4597.4	4275.0	4221.2	4143.6	4221.2	4251.1	4281.0	4215.3	4406.3	4495.9	4591.4
15°	3510.7	3331.7	3283.9	3134.6	3158.5	3242.1	3313.7	3343.6	3283.9	3421.2	3433.1
17.5°	2549.4	2543.5	2573.3	2567.4	2543.5	2525.6	2519.6	2442.0	2418.1	2430.0	2477.8
20°	1934.5	1982.2	2083.8	2185.3	2239.0	2173.3	2083.8	1952.4	1898.7	1910.6	1916.5
22.5°	1653.9	1725.5	1862.8	1976.3	2030.0	1910.6	1749.4	1636.0	1612.0	1606.1	1600.1
25°	1498.7	1582.2	1683.8	1719.5	1713.6	1642.0	1522.5	1474.8	1462.8	1450.9	1397.1
27.5°	1415.0	1444.9	1462.8	1504.6	1522.5	1474.8	1444.9	1373.2	1361.3	1361.3	1325.5
30°	1367.3	1349.3	1373.2	1343.4	1367.3	1331.5	1337.4	1337.4	1307.6	1319.5	1319.5
32.5°	1271.7	1277.7	1277.7	1218.0	1236.0	1194.2	1236.0	1271.7	1277.7	1283.7	1331.5
35°	931.5	1038.9	1092.6	1092.6	1110.5	1080.7	1074.7	1032.9	979.2	925.4	901.5
37.5°	818.0	859.8	931.5	973.2	1003.1	979.2	925.4	859.8	829.9	806.0	782.1
40°	728.4	764.2	812.0	859.8	919.5	889.6	806.0	776.2	740.3	740.3	716.4
42.5°	656.8	674.7	704.5	776.2	841.9	782.1	722.5	698.6	680.7	674.7	668.7
45°	591.1	597.0	626.9	686.6	764.2	704.5	644.8	615.0	620.9	626.9	620.9
47.5°	531.4	543.3	561.3	632.9	680.7	650.8	585.1	567.2	567.2	567.2	573.2
50°	459.8	489.6	525.4	585.1	620.9	603.1	549.3	525.4	513.5	513.5	519.4
52.5°	412.0	435.9	483.7	555.3	603.1	573.2	519.4	483.7	459.8	453.7	465.7
55°	358.2	400.0	477.6	531.4	597.0	567.2	507.5	465.7	423.9	418.0	418.0
57.5°	322.4	388.1	459.8	525.4	579.2	555.3	507.5	453.7	400.0	394.1	394.1
60°	304.5	376.2	447.8	507.5	579.2	543.3	501.5	441.8	382.1	382.1	376.2
62.5°	286.6	352.3	423.9	483.7	555.3	525.4	483.7	423.9	364.2	364.2	352.3
65°	238.8	304.5	352.3	406.0	483.7	453.7	412.0	370.2	322.4	310.5	316.4
67.5°	167.2	209.0	256.7	310.5	358.2	346.3	328.4	298.6	256.7	250.8	244.8
70°	83.6	113.5	155.3	209.0	250.8	238.8	226.9	203.0	179.2	173.1	173.1
72.5°	12.0	35.9	65.7	95.5	131.4	137.3	131.4	125.4	119.4	113.5	119.4
75°	0.0	0.0	0.0	23.9	53.7	65.7	77.6	89.6	89.6	77.6	95.5
77.5°	0.0	0.0	0.0	0.0	6.0	29.8	59.7	77.6	95.5	83.6	113.5
80°	0.0	0.0	0.0	0.0	6.0	35.9	59.7	83.6	95.5	83.6	119.4
82.5°	0.0	0.0	0.0	0.0	6.0	41.8	59.7	77.6	89.6	83.6	107.5
85°	0.0	0.0	0.0	0.0	17.9	35.9	23.9	12.0	6.0	6.0	17.9
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: P647664

CATALOG NUMBER: GALN-SA9D-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4	15392.4
2.5°	13332.5	13756.4	14210.2	14383.3	14920.7	15326.7	15601.4	16192.4	16282.0	16288.0
5°	10711.4	10926.3	11702.5	12066.7	12866.8	13487.7	14150.5	15105.8	15744.6	15792.4
7.5°	7612.6	8209.7	8538.1	9487.4	10472.5	11445.7	12430.9	13541.4	14281.8	14299.8
10°	6125.9	6514.0	7099.1	7809.6	8639.5	9630.7	10944.2	12233.9	12986.2	13171.3
12.5°	4931.8	5612.4	6281.1	7015.5	7648.4	8394.8	9809.8	11529.4	12150.3	12520.5
15°	3797.3	4418.3	5206.4	6066.2	6782.7	7779.8	9391.9	11356.2	12401.1	12526.4
17.5°	2800.2	3355.5	4083.9	4895.9	5970.7	7385.7	9463.5	12233.9	13219.1	13428.0
20°	2012.1	2334.5	2907.7	3851.1	5218.4	6925.9	9535.1	13123.5	14622.1	14980.4
22.5°	1594.2	1725.5	2101.7	2937.6	4376.5	6442.4	10042.7	14825.2	16550.7	17070.1
25°	1385.2	1456.8	1636.0	2316.6	3845.1	6394.6	10854.7	16867.2	19118.0	19494.2
27.5°	1337.4	1349.3	1504.6	2125.5	3558.5	6078.1	11165.1	18318.0	20718.2	21100.3
30°	1409.1	1600.1	1612.0	1797.1	3027.2	5451.2	11326.3	19721.1	22073.6	22354.2
32.5°	1218.0	1158.3	1200.1	1391.2	2662.9	5087.0	11630.8	20945.1	23619.9	23817.0
35°	847.8	889.6	985.2	1206.1	2328.6	4704.9	11708.4	22294.4	25088.7	25291.7
37.5°	782.1	806.0	883.7	1027.0	2047.9	4490.0	11601.0	23279.6	26611.3	26891.8
40°	728.4	758.3	800.1	931.5	1839.0	4251.1	11451.8	24169.3	27542.7	28235.3
42.5°	686.6	710.5	746.4	889.6	1659.9	4012.2	11242.8	25423.1	28378.6	28981.6
45°	638.8	674.7	716.4	865.8	1558.3	3851.1	11087.5	25345.5	28862.2	29184.6
47.5°	591.1	650.8	698.6	806.0	1528.5	3773.4	11153.2	25052.9	28468.1	28247.2
50°	543.3	620.9	704.5	668.7	1456.8	3618.2	11230.8	25452.9	27530.7	27488.9
52.5°	501.5	591.1	656.8	549.3	1295.6	3468.9	11983.1	25978.4	28193.5	27638.2
55°	441.8	531.4	525.4	441.8	1050.9	3355.5	12574.2	25990.3	27745.7	27954.7
57.5°	400.0	471.7	412.0	370.2	776.2	2806.2	11612.9	21792.9	23751.3	24121.5
60°	370.2	459.8	310.5	292.5	507.5	2024.1	10138.2	16879.1	18879.2	19577.8
62.5°	340.3	435.9	244.8	238.8	352.3	1438.9	8335.0	14126.6	16270.0	17219.4
65°	298.6	310.5	197.0	185.1	250.8	776.2	5075.1	9726.2	12162.3	12514.5
67.5°	244.8	238.8	161.2	149.2	167.2	376.2	2239.0	4872.1	7051.4	7642.5
70°	197.0	197.0	137.3	119.4	119.4	173.1	585.1	1940.4	3188.3	3528.7
72.5°	143.3	149.2	107.5	95.5	89.6	83.6	95.5	388.1	835.9	1068.7
75°	125.4	131.4	107.5	83.6	65.7	53.7	41.8	35.9	47.8	77.6
77.5°	137.3	137.3	113.5	77.6	59.7	41.8	23.9	12.0	12.0	6.0
80°	173.1	179.2	149.2	101.5	71.6	47.8	29.8	12.0	6.0	6.0
82.5°	185.1	203.0	167.2	125.4	89.6	53.7	29.8	6.0	0.0	0.0
85°	47.8	77.6	131.4	113.5	89.6	53.7	29.8	6.0	0.0	0.0
87.5°	0.0	6.0	17.9	17.9	23.9	23.9	17.9	6.0	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)