

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: P534423

Luminaire Tested: **GALN-SA9D-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534423
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-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 30809 lumens
Efficiency: N/A
Efficacy: 55.8 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

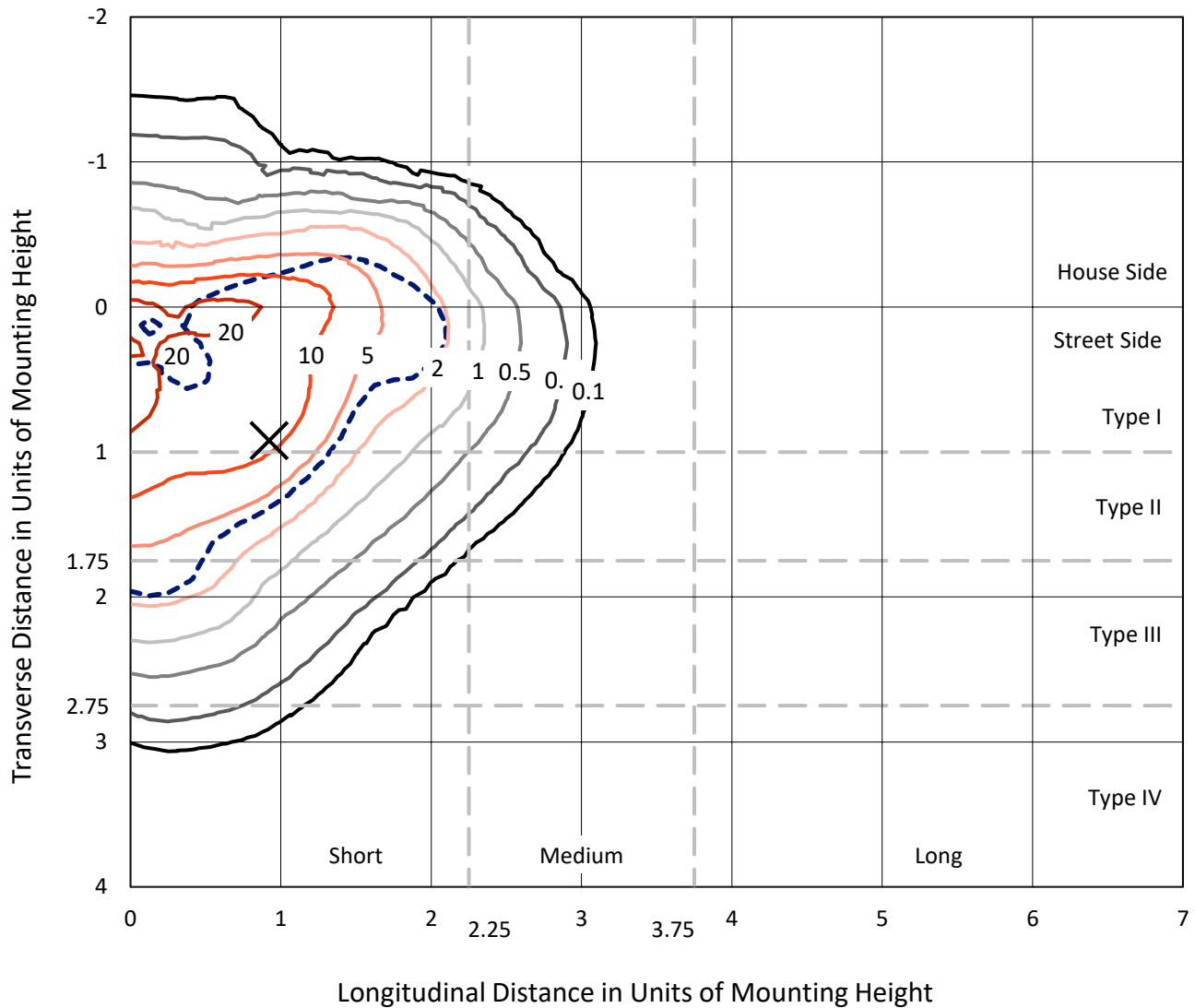


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

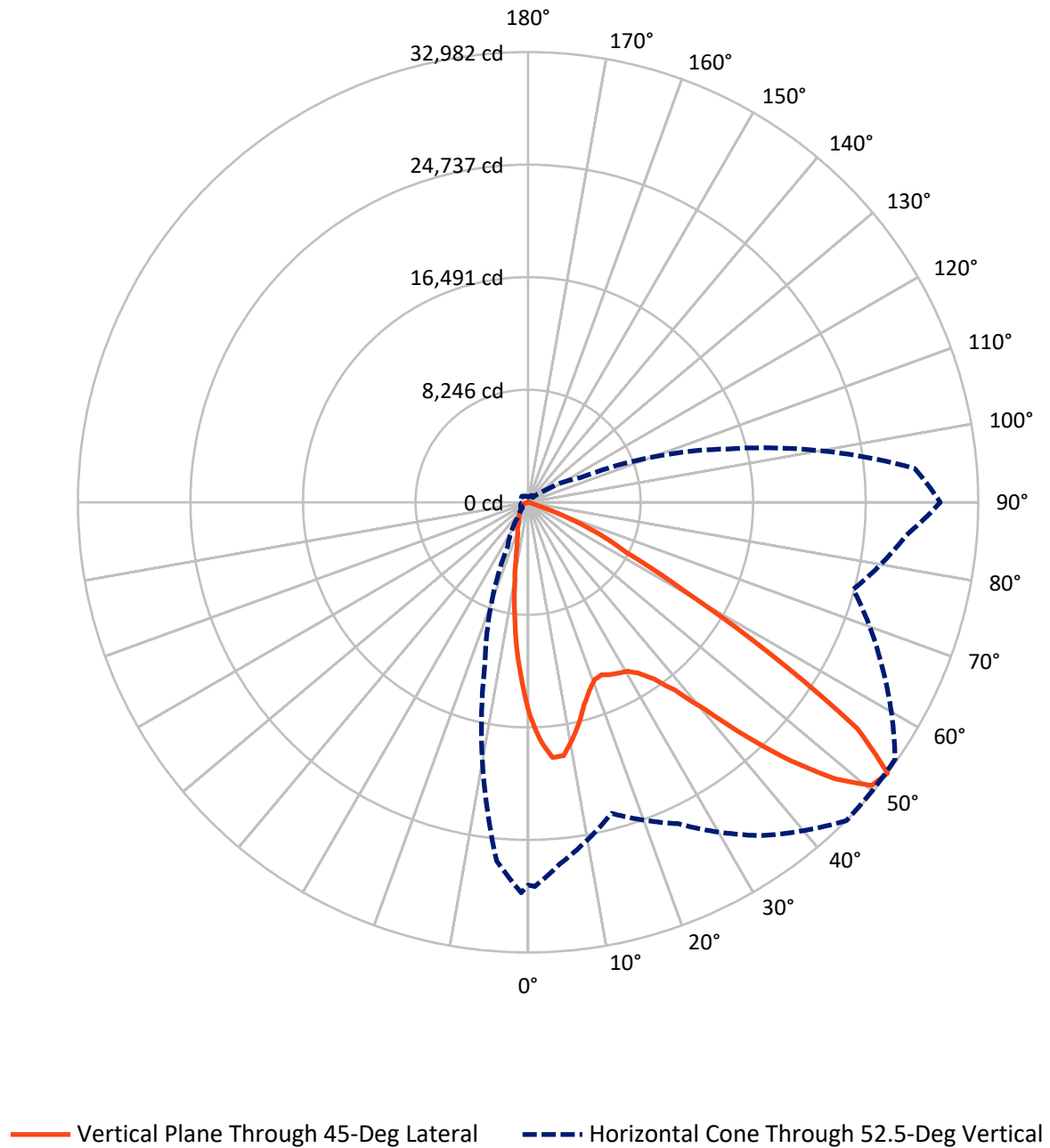


Based on 25 foot mounting height. Maximum calculated value = 27 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6252.7	0.0	6252.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	24556.3	0.0	24556.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	30809.0	0.0	30809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1139.3	3.7
10°-20°	2247.7	7.3
20°-30°	3420.6	11.1
30°-40°	5112.6	16.6
40°-50°	7280.8	23.6
50°-60°	7826.6	25.4
60°-70°	3468.1	11.3
70°-80°	280.6	0.9
80°-90°	32.7	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°	30809.0	100.0
0°-180°	30809.0	100.0

Coefficient of Utilization



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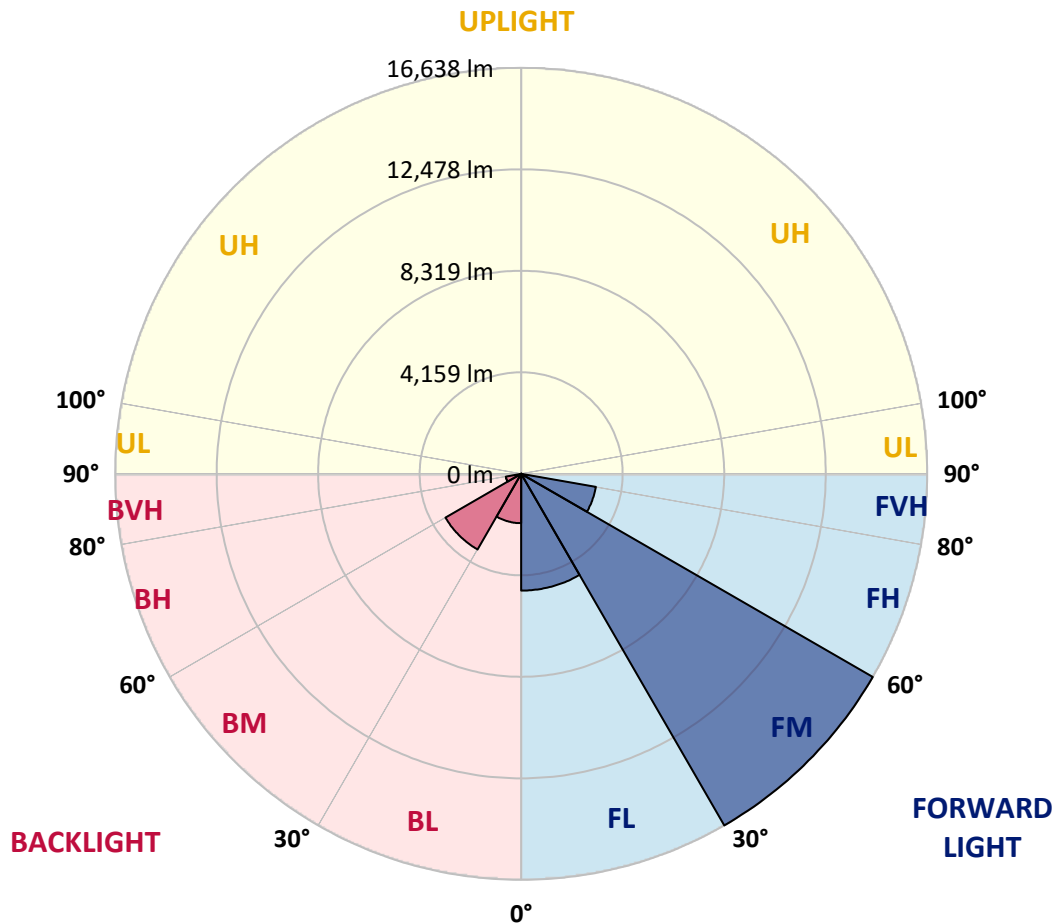
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4785.3	15.5			
FM	(30°-60°)	16637.8	54.0			
FH	(60°-80°)	3109.0	10.1			G2/5000
FVH	(80°-90°)	24.2	0.1			G1/100
BL	(0°-30°)	2022.4	6.6	B3/2500		
BM	(30°-60°)	3582.1	11.6	B3/5000		
BH	(60°-80°)	639.8	2.1	B2/1000		G2/1000
BVH	(80°-90°)	8.5	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°	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6
2.5°	16530.5	16579.0	16845.6	17178.9	17354.6	17754.6	17475.8	17548.5	17397.1	16863.8	16445.7
5°	16027.6	16021.5	16360.9	17185.0	17966.7	18760.5	18784.7	18360.5	17615.2	16797.2	15627.7
7.5°	14512.7	14749.0	15100.5	16415.4	17863.6	18457.5	18742.3	18245.4	17100.1	15930.6	14664.2
10°	13367.4	13488.6	14082.5	15670.1	16730.5	17524.3	17700.0	17415.2	16536.6	15076.2	13658.3
12.5°	12706.9	12767.5	13464.4	14797.5	15918.5	16506.3	16591.1	16724.4	16094.2	14724.8	13022.0
15°	12713.0	12761.5	13700.7	14815.7	15258.0	15100.5	15379.2	15373.2	15645.8	14658.1	13555.3
17.5°	13628.0	13682.5	14530.9	15082.3	14888.4	14518.8	14500.6	14779.3	15355.0	15488.3	14361.2
20°	15203.5	15330.7	15954.9	15924.6	14833.8	14088.5	13882.5	14094.6	15433.7	16191.2	15985.2
22.5°	17324.3	17500.1	17936.4	17100.1	15082.3	13797.7	13731.0	14143.1	15954.9	17760.6	17827.3
25°	19784.5	20081.4	20293.5	19221.0	15967.0	14300.6	13985.5	14694.5	16657.8	19463.4	20172.3
27.5°	21414.6	21723.6	21675.1	20142.0	16560.8	14433.9	14167.3	14827.8	17269.8	19869.4	21396.4
30°	22687.1	22874.9	23214.2	20638.9	17154.7	14809.6	14355.1	15391.3	17469.8	20572.3	22874.9
32.5°	24171.7	24298.9	24323.2	21517.6	18069.7	15282.3	14936.9	16094.2	18354.5	21244.9	24183.8
35°	25668.4	25856.2	25462.4	22602.2	18633.2	16160.9	15906.4	17312.2	19063.4	21941.7	25626.0
37.5°	27292.3	27389.3	26480.4	23050.6	19439.1	17591.0	17451.6	18627.1	20293.5	23202.1	27225.7
40°	28655.7	28746.6	27565.0	23602.1	20287.5	19590.6	19948.1	21135.8	21966.0	24020.2	28025.6
42.5°	29413.2	29625.3	27928.6	23299.1	21990.2	21856.9	23444.5	23862.6	23905.0	24250.4	28740.6
45°	29619.2	29522.3	27328.7	23547.5	23480.9	25583.5	27025.7	27577.1	25832.0	24674.6	28922.4
47.5°	28667.9	28795.1	26444.0	23329.4	25438.1	28407.3	30273.7	31297.7	27268.1	24305.0	28474.0
50°	27898.3	27734.7	26159.2	23171.8	25965.3	29740.4	32618.7	32849.0	28589.1	24759.4	27983.1
52.5°	28049.8	28152.8	26613.7	23589.9	25977.4	29819.2	32982.3	32824.7	28631.5	24656.4	27807.4
55°	28370.9	27916.5	26419.8	22668.9	24238.3	27619.6	29273.8	29031.4	26425.8	23559.6	27377.2
57.5°	24480.7	25183.6	24292.9	20239.0	19893.6	20808.6	20778.3	21523.6	19711.8	20275.4	24923.0
60°	19869.4	19990.6	20323.8	17312.2	13767.4	13452.3	13016.0	12543.3	13264.4	17336.5	22668.9
62.5°	17475.8	17330.4	18518.1	15748.8	9719.6	8138.0	8065.3	8356.2	10234.6	16536.6	21263.1
65°	12700.9	12882.7	13743.1	12222.2	7295.7	6211.1	6102.0	6962.5	8283.4	13252.3	16227.6
67.5°	7756.3	8107.7	8186.5	7538.1	4950.7	3932.7	3775.1	4556.8	5980.8	8574.3	9513.5
70°	3581.2	4005.4	4405.3	4114.5	2866.2	1617.9	1527.0	1914.8	3017.7	4932.5	5047.6
72.5°	1084.7	1090.7	1527.0	1593.7	927.1	363.6	321.2	424.2	1024.1	1630.0	1714.9
75°	78.8	84.8	206.0	236.3	175.7	90.9	97.0	115.1	218.1	363.6	272.7
77.5°	6.1	6.1	6.1	30.3	54.5	60.6	78.8	90.9	115.1	133.3	121.2
80°	6.1	0.0	6.1	24.2	42.4	60.6	72.7	84.8	90.9	103.0	90.9
82.5°	0.0	0.0	0.0	18.2	42.4	60.6	66.7	90.9	103.0	121.2	103.0
85°	0.0	0.0	0.0	18.2	42.4	66.7	60.6	30.3	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°	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6
2.5°	16518.4	16282.1	15742.8	15470.1	14827.8	14736.9	14106.7	14003.7	13791.6	13676.5	13397.7
5°	15112.6	14827.8	13949.2	13209.9	12349.4	11749.5	11289.0	10870.9	10628.5	10404.3	10507.3
7.5°	13967.3	13137.2	12161.6	10925.4	9931.7	9289.3	8586.4	8010.8	7671.4	7441.2	7495.7
10°	12767.5	12228.2	10870.9	9483.2	8283.4	7829.0	7277.6	6835.2	6356.5	5944.4	5750.5
12.5°	12391.8	11592.0	9889.2	8477.4	7568.4	7126.1	6495.9	5986.9	5374.8	4871.9	4696.2
15°	12458.5	11688.9	9622.6	8113.8	7041.2	6277.7	5526.3	4896.1	4223.5	3872.1	3690.3
17.5°	13543.2	12210.1	9798.3	7732.0	6308.0	5247.6	4320.5	3520.6	3017.7	2654.1	2575.3
20°	14876.3	13337.1	10174.0	7453.3	5708.1	4175.1	3157.0	2466.2	2048.1	1987.5	1969.4
22.5°	16827.5	15179.2	10980.0	7265.4	4974.9	3254.0	2163.3	1793.6	1678.5	1666.4	1672.4
25°	19554.3	17487.9	11858.6	7107.9	4423.5	2508.7	1769.4	1521.0	1484.6	1466.4	1496.7
27.5°	20735.9	18881.6	12325.2	6768.5	3920.5	2260.2	1745.2	1508.8	1405.8	1375.5	1393.7
30°	22196.2	19808.8	13058.4	6186.8	3181.3	1860.3	1630.0	1642.1	1593.7	1442.2	1393.7
32.5°	24135.3	20966.1	13428.0	5774.8	2841.9	1539.1	1193.7	1096.8	1224.0	1248.3	1290.7
35°	25377.5	22141.7	13615.9	5532.4	2666.2	1314.9	1011.9	921.1	890.8	896.8	921.1
37.5°	27686.2	23729.3	13852.2	5277.9	2532.9	1145.3	915.0	830.2	787.7	787.7	812.0
40°	29067.8	24989.7	14173.4	5138.5	2399.6	1042.2	830.2	757.4	721.1	721.1	733.2
42.5°	29413.2	25613.8	14064.3	5090.0	2248.1	1018.0	757.4	702.9	660.5	654.4	648.4
45°	30031.3	26565.2	14082.5	5035.5	2090.6	927.1	715.0	654.4	593.8	587.8	581.7
47.5°	30709.9	27249.9	14118.8	4823.4	1939.1	775.6	745.3	606.0	533.2	521.1	521.1
50°	30128.2	27795.3	14433.9	4611.3	1745.2	630.2	733.2	569.6	472.6	454.5	460.5
52.5°	30200.9	28437.6	15100.5	4314.4	1502.8	502.9	593.8	539.3	430.2	399.9	406.0
55°	29037.5	27758.9	15191.4	3999.3	1175.6	387.8	454.5	472.6	363.6	351.5	351.5
57.5°	24995.8	23505.1	13403.8	3241.9	775.6	321.2	327.2	412.1	315.1	303.0	309.0
60°	21390.3	18869.5	10786.1	2139.0	484.8	254.5	236.3	418.1	278.7	272.7	290.9
62.5°	19499.7	15506.5	8180.4	1327.0	333.3	193.9	163.6	339.3	242.4	242.4	266.6
65°	14088.5	10416.4	4756.8	696.9	236.3	151.5	121.2	193.9	200.0	206.0	218.1
67.5°	8725.8	5259.7	2005.7	339.3	157.5	103.0	78.8	121.2	133.3	133.3	145.4
70°	4308.4	2096.6	666.6	193.9	121.2	84.8	54.5	66.7	66.7	60.6	66.7
72.5°	1333.1	630.2	169.7	121.2	84.8	54.5	30.3	24.2	12.1	0.0	6.1
75°	151.5	121.2	109.1	84.8	54.5	24.2	6.1	0.0	0.0	0.0	0.0
77.5°	90.9	103.0	103.0	84.8	54.5	18.2	0.0	0.0	0.0	0.0	0.0
80°	72.7	78.8	84.8	78.8	48.5	24.2	0.0	0.0	0.0	0.0	0.0
82.5°	90.9	103.0	115.1	103.0	66.7	30.3	12.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	18.2	6.1	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°	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6
2.5°	13282.6	13149.3	13337.1	13058.4	13052.3	13058.4	12979.6	12906.9	13022.0	13331.1	13361.4
5°	10137.7	10422.5	10513.4	10810.3	10646.7	10404.3	10452.8	10289.2	10689.1	10864.8	10725.5
7.5°	7380.6	7362.4	7974.4	8010.8	8089.5	8095.6	8083.5	7762.3	7435.1	7507.8	7726.0
10°	5726.3	5417.3	5714.2	5683.9	5877.8	5823.3	5902.0	5556.6	5671.8	5671.8	5811.1
12.5°	4665.9	4338.7	4284.1	4205.3	4284.1	4314.4	4344.7	4278.1	4472.0	4562.9	4659.8
15°	3563.0	3381.2	3332.8	3181.3	3205.5	3290.4	3363.1	3393.4	3332.8	3472.1	3484.3
17.5°	2587.4	2581.4	2611.7	2605.6	2581.4	2563.2	2557.1	2478.4	2454.1	2466.2	2514.7
20°	1963.3	2011.8	2114.8	2217.8	2272.3	2205.7	2114.8	1981.5	1926.9	1939.1	1945.1
22.5°	1678.5	1751.2	1890.6	2005.7	2060.3	1939.1	1775.5	1660.3	1636.1	1630.0	1624.0
25°	1521.0	1605.8	1708.8	1745.2	1739.1	1666.4	1545.2	1496.7	1484.6	1472.5	1417.9
27.5°	1436.1	1466.4	1484.6	1527.0	1545.2	1496.7	1466.4	1393.7	1381.6	1381.6	1345.2
30°	1387.6	1369.5	1393.7	1363.4	1387.6	1351.3	1357.3	1357.3	1327.0	1339.2	1339.2
32.5°	1290.7	1296.7	1296.7	1236.2	1254.3	1211.9	1254.3	1290.7	1296.7	1302.8	1351.3
35°	945.3	1054.4	1108.9	1108.9	1127.1	1096.8	1090.7	1048.3	993.8	939.2	915.0
37.5°	830.2	872.6	945.3	987.7	1018.0	993.8	939.2	872.6	842.3	818.0	793.8
40°	739.3	775.6	824.1	872.6	933.2	902.9	818.0	787.7	751.4	751.4	727.1
42.5°	666.6	684.7	715.0	787.7	854.4	793.8	733.2	709.0	690.8	684.7	678.7
45°	599.9	606.0	636.3	696.9	775.6	715.0	654.4	624.1	630.2	636.3	630.2
47.5°	539.3	551.4	569.6	642.3	690.8	660.5	593.8	575.7	575.7	575.7	581.7
50°	466.6	496.9	533.2	593.8	630.2	612.0	557.5	533.2	521.1	521.1	527.2
52.5°	418.1	442.3	490.8	563.5	612.0	581.7	527.2	490.8	466.6	460.5	472.6
55°	363.6	406.0	484.8	539.3	606.0	575.7	515.1	472.6	430.2	424.2	424.2
57.5°	327.2	393.9	466.6	533.2	587.8	563.5	515.1	460.5	406.0	399.9	399.9
60°	309.0	381.8	454.5	515.1	587.8	551.4	509.0	448.4	387.8	387.8	381.8
62.5°	290.9	357.5	430.2	490.8	563.5	533.2	490.8	430.2	369.6	369.6	357.5
65°	242.4	309.0	357.5	412.1	490.8	460.5	418.1	375.7	327.2	315.1	321.2
67.5°	169.7	212.1	260.6	315.1	363.6	351.5	333.3	303.0	260.6	254.5	248.4
70°	84.8	115.1	157.5	212.1	254.5	242.4	230.3	206.0	181.8	175.7	175.7
72.5°	12.1	36.4	66.7	97.0	133.3	139.4	133.3	127.3	121.2	115.1	121.2
75°	0.0	0.0	0.0	24.2	54.5	66.7	78.8	90.9	90.9	78.8	97.0
77.5°	0.0	0.0	0.0	0.0	6.1	30.3	60.6	78.8	97.0	84.8	115.1
80°	0.0	0.0	0.0	0.0	6.1	36.4	60.6	84.8	97.0	84.8	121.2
82.5°	0.0	0.0	0.0	0.0	6.1	42.4	60.6	78.8	90.9	84.8	109.1
85°	0.0	0.0	0.0	0.0	18.2	36.4	24.2	12.1	6.1	6.1	18.2
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: P534423

CATALOG NUMBER: GALN-SA9D-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6	15621.6
2.5°	13531.0	13961.3	14421.8	14597.5	15142.9	15554.9	15833.7	16433.6	16524.5	16530.5
5°	10870.9	11089.0	11876.8	12246.4	13058.4	13688.6	14361.2	15330.7	15979.1	16027.6
7.5°	7726.0	8331.9	8665.2	9628.7	10628.5	11616.2	12616.0	13743.1	14494.5	14512.7
10°	6217.1	6611.0	7204.8	7925.9	8768.2	9774.1	11107.2	12416.1	13179.6	13367.4
12.5°	5005.2	5696.0	6374.7	7120.0	7762.3	8519.8	9955.9	11701.0	12331.2	12706.9
15°	3853.9	4484.1	5284.0	6156.5	6883.7	7895.6	9531.7	11525.3	12585.7	12713.0
17.5°	2841.9	3405.5	4144.8	4968.9	6059.6	7495.7	9604.4	12416.1	13415.9	13628.0
20°	2042.1	2369.3	2951.0	3908.4	5296.1	7029.1	9677.1	13319.0	14839.9	15203.5
22.5°	1617.9	1751.2	2133.0	2981.3	4441.7	6538.3	10192.2	15045.9	16797.2	17324.3
25°	1405.8	1478.5	1660.3	2351.1	3902.4	6489.8	11016.3	17118.3	19402.8	19784.5
27.5°	1357.3	1369.5	1527.0	2157.2	3611.5	6168.7	11331.4	18590.8	21026.7	21414.6
30°	1430.1	1624.0	1636.1	1823.9	3072.2	5532.4	11495.0	20014.8	22402.3	22687.1
32.5°	1236.2	1175.6	1218.0	1411.9	2702.6	5162.8	11804.1	21257.0	23971.7	24171.7
35°	860.5	902.9	999.8	1224.0	2363.2	4774.9	11882.8	22626.5	25462.4	25668.4
37.5°	793.8	818.0	896.8	1042.2	2078.4	4556.8	11773.8	23626.3	27007.5	27292.3
40°	739.3	769.6	812.0	945.3	1866.4	4314.4	11622.3	24529.2	27952.8	28655.7
42.5°	696.9	721.1	757.4	902.9	1684.6	4072.0	11410.2	25801.7	28801.2	29413.2
45°	648.4	684.7	727.1	878.6	1581.6	3908.4	11252.6	25722.9	29292.0	29619.2
47.5°	599.9	660.5	709.0	818.0	1551.3	3829.7	11319.3	25426.0	28892.1	28667.9
50°	551.4	630.2	715.0	678.7	1478.5	3672.1	11398.1	25832.0	27940.7	27898.3
52.5°	509.0	599.9	666.6	557.5	1314.9	3520.6	12161.6	26365.2	28613.3	28049.8
55°	448.4	539.3	533.2	448.4	1066.5	3405.5	12761.5	26377.3	28158.9	28370.9
57.5°	406.0	478.7	418.1	375.7	787.7	2848.0	11785.9	22117.5	24105.0	24480.7
60°	375.7	466.6	315.1	296.9	515.1	2054.2	10289.2	17130.4	19160.4	19869.4
62.5°	345.4	442.3	248.4	242.4	357.5	1460.4	8459.2	14337.0	16512.4	17475.8
65°	303.0	315.1	200.0	187.8	254.5	787.7	5150.6	9871.1	12343.4	12700.9
67.5°	248.4	242.4	163.6	151.5	169.7	381.8	2272.3	4944.6	7156.4	7756.3
70°	200.0	200.0	139.4	121.2	121.2	175.7	593.8	1969.4	3235.8	3581.2
72.5°	145.4	151.5	109.1	97.0	90.9	84.8	97.0	393.9	848.3	1084.7
75°	127.3	133.3	109.1	84.8	66.7	54.5	42.4	36.4	48.5	78.8
77.5°	139.4	139.4	115.1	78.8	60.6	42.4	24.2	12.1	12.1	6.1
80°	175.7	181.8	151.5	103.0	72.7	48.5	30.3	12.1	6.1	6.1
82.5°	187.8	206.0	169.7	127.3	90.9	54.5	30.3	6.1	0.0	0.0
85°	48.5	78.8	133.3	115.1	90.9	54.5	30.3	6.1	0.0	0.0
87.5°	0.0	6.1	18.2	18.2	24.2	24.2	18.2	6.1	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)