

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: P533487

Luminaire Tested: **GALN-SA8D-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533487
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-SA8D-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 27442 lumens
Efficiency: N/A
Efficacy: 55.7 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



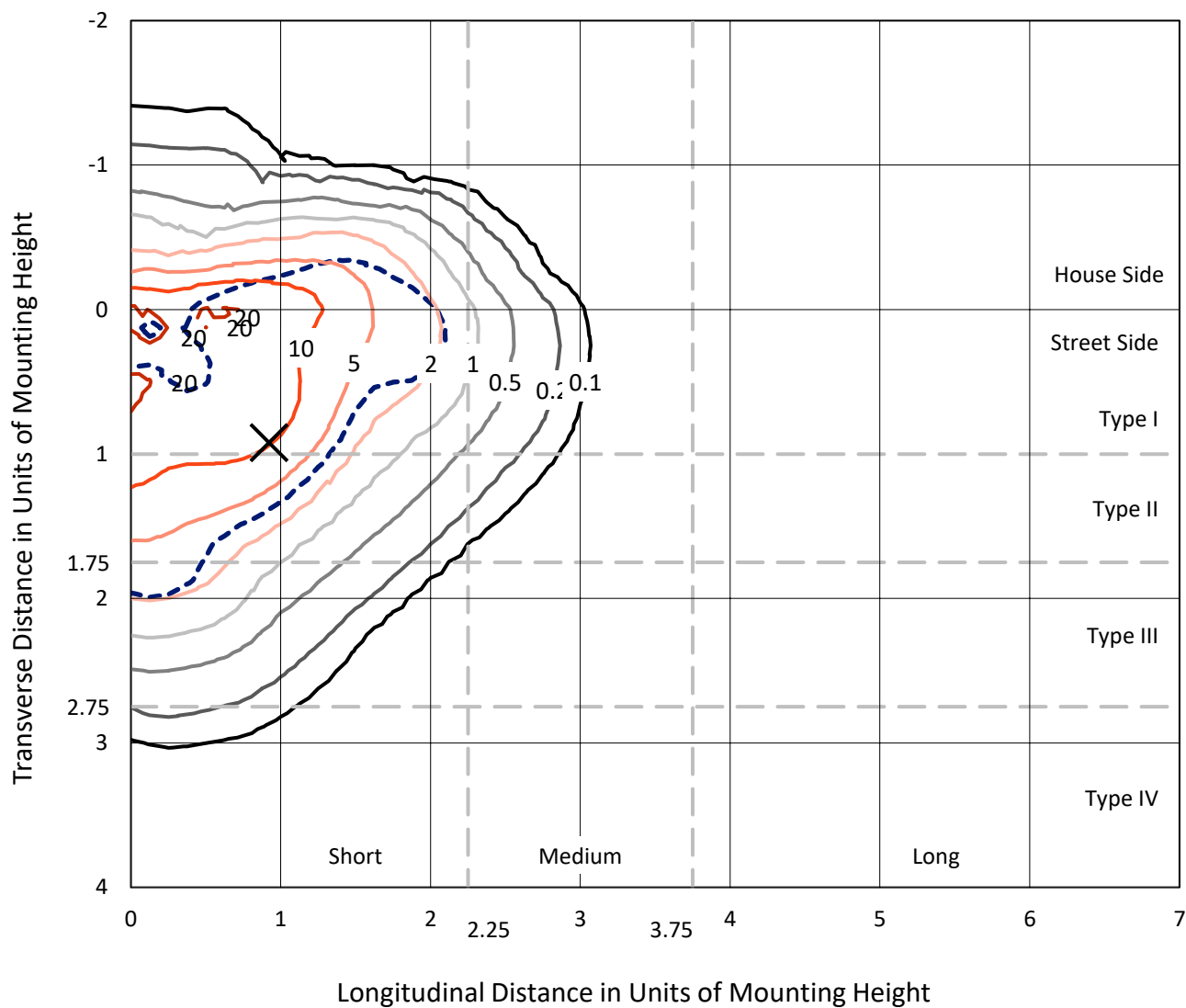
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

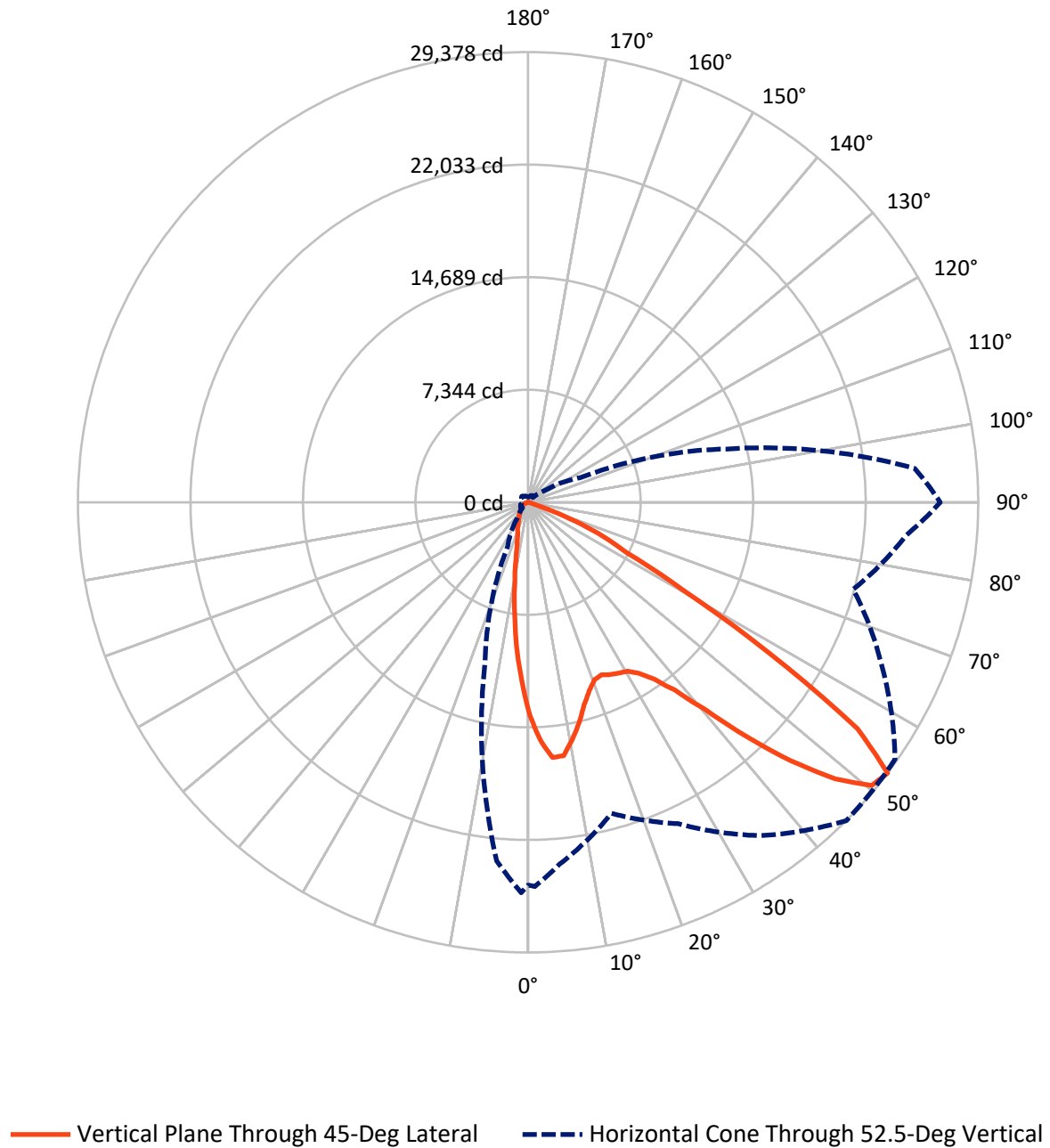


Based on 25 foot mounting height. Maximum calculated value = 24.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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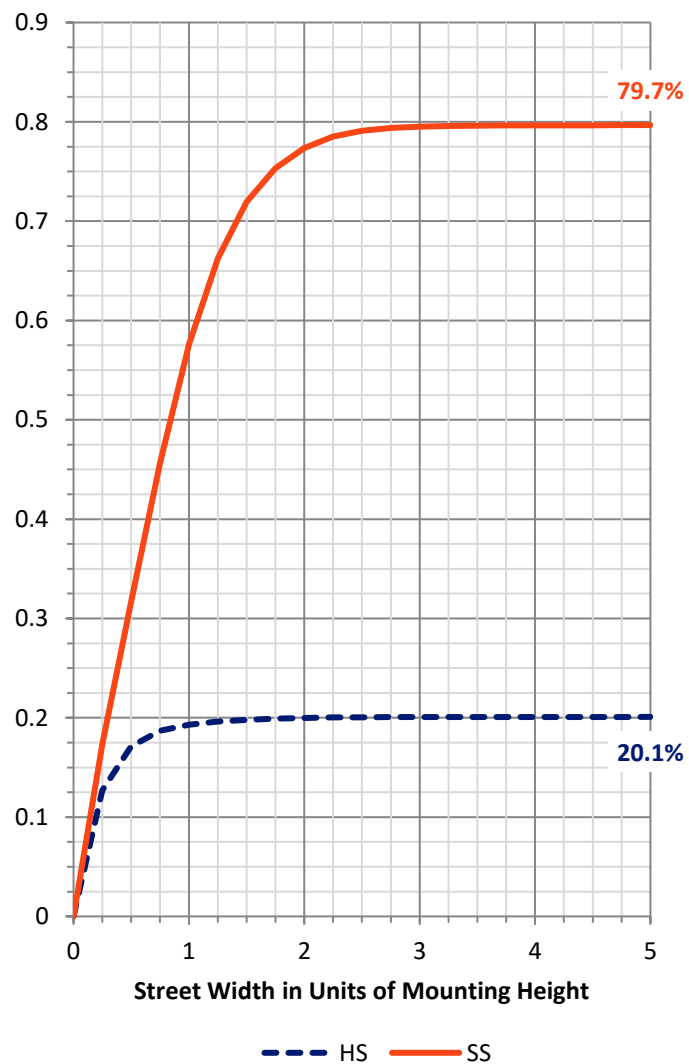
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5569.4	0.0	5569.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	21872.6	0.0	21872.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	27442.0	0.0	27442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1014.8	3.7
10°-20°	2002.1	7.3
20°-30°	3046.8	11.1
30°-40°	4553.8	16.6
40°-50°	6485.1	23.6
50°-60°	6971.3	25.4
60°-70°	3089.1	11.3
70°-80°	249.9	0.9
80°-90°	29.1	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°	27442.0	100.0
0°-180°	27442.0	100.0

Coefficient of Utilization



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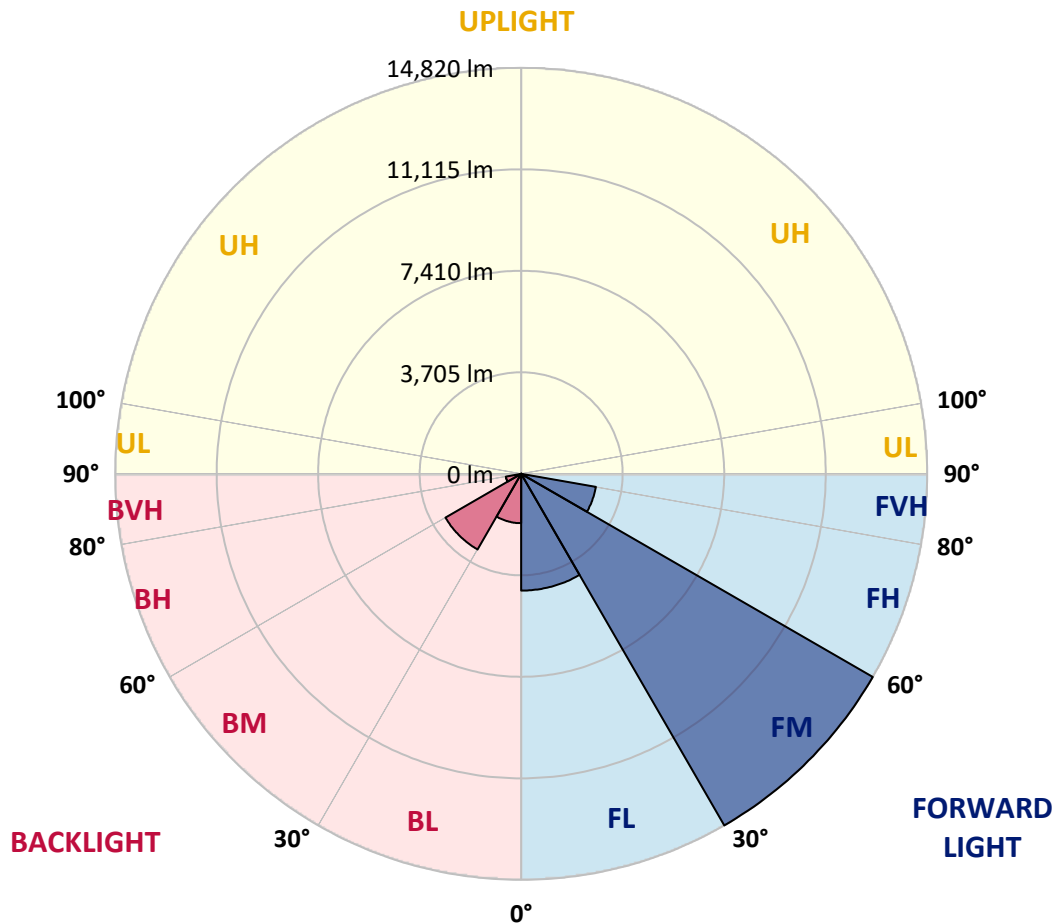
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4262.3	15.5			
FM	(30°-60°)	14819.5	54.0			
FH	(60°-80°)	2769.2	10.1			G2/5000
FVH	(80°-90°)	21.6	0.1			G1/100
BL	(0°-30°)	1801.4	6.6	B3/2500		
BM	(30°-60°)	3190.6	11.6	B3/5000		
BH	(60°-80°)	569.8	2.1	B2/1000		G2/1000
BVH	(80°-90°)	7.6	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°	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4
2.5°	14724.0	14767.2	15004.6	15301.5	15458.0	15814.2	15566.0	15630.7	15495.8	15020.8	14648.4
5°	14276.0	14270.6	14572.8	15306.9	16003.1	16710.2	16731.8	16354.0	15690.1	14961.5	13919.8
7.5°	12926.7	13137.2	13450.2	14621.4	15911.4	16440.3	16694.0	16251.4	15231.3	14189.6	13061.6
10°	11906.6	12014.5	12543.4	13957.5	14902.1	15609.1	15765.7	15512.0	14729.4	13428.6	12165.6
12.5°	11318.2	11372.2	11992.9	13180.3	14178.8	14702.4	14777.9	14896.7	14335.4	13115.6	11598.9
15°	11323.6	11366.8	12203.4	13196.5	13590.5	13450.2	13698.5	13693.1	13936.0	13056.2	12073.9
17.5°	12138.6	12187.2	12942.8	13434.0	13261.3	12932.1	12915.9	13164.1	13676.9	13795.6	12791.7
20°	13542.0	13655.3	14211.2	14184.2	13212.7	12548.8	12365.3	12554.2	13747.1	14421.7	14238.2
22.5°	15431.0	15587.5	15976.2	15231.3	13434.0	12289.8	12230.4	12597.4	14211.2	15819.6	15879.0
25°	17622.3	17886.8	18075.7	17120.4	14222.0	12737.7	12457.1	13088.6	14837.3	17336.3	17967.8
27.5°	19074.2	19349.5	19306.3	17940.8	14751.0	12856.5	12619.0	13207.3	15382.4	17697.9	19058.0
30°	20207.7	20375.0	20677.2	18383.4	15279.9	13191.1	12786.3	13709.3	15560.6	18324.0	20375.0
32.5°	21530.0	21643.4	21665.0	19166.0	16094.9	13612.1	13304.5	14335.4	16348.6	18923.1	21540.8
35°	22863.2	23030.5	22679.7	20132.1	16596.9	14394.7	14168.0	15420.2	16980.1	19543.8	22825.4
37.5°	24309.7	24396.0	23586.4	20531.5	17314.7	15668.5	15544.4	16591.5	18075.7	20666.5	24250.3
40°	25524.1	25605.0	24552.5	21022.7	18070.3	17449.6	17768.1	18826.0	19565.4	21395.1	24962.7
42.5°	26198.7	26387.6	24876.4	20752.8	19587.0	19468.2	20882.3	21254.8	21292.5	21600.2	25599.6
45°	26382.2	26295.9	24342.1	20974.1	20914.7	22787.6	24072.2	24563.3	23008.9	21978.0	25761.6
47.5°	25534.9	25648.2	23554.0	20779.8	22658.1	25302.8	26965.2	27877.3	24288.1	21648.8	25362.1
50°	24849.4	24703.7	23300.4	20639.5	23127.6	26490.2	29053.9	29259.0	25464.7	22053.6	24925.0
52.5°	24984.3	25076.1	23705.2	21011.9	23138.4	26560.4	29377.8	29237.4	25502.5	21961.8	24768.4
55°	25270.4	24865.6	23532.4	20191.5	21589.4	24601.1	26074.6	25858.7	23537.8	20984.9	24385.2
57.5°	21805.3	22431.4	21638.0	18027.2	17719.5	18534.5	18507.5	19171.4	17557.6	18059.5	22199.3
60°	17697.9	17805.9	18102.7	15420.2	12262.8	11982.1	11593.5	11172.5	11814.8	15441.8	20191.5
62.5°	15566.0	15436.4	16494.3	14027.7	8657.4	7248.6	7183.9	7442.9	9116.1	14729.4	18939.3
65°	11312.8	11474.8	12241.2	10886.5	6498.4	5532.3	5435.1	6201.6	7378.2	11804.0	14454.1
67.5°	6908.6	7221.7	7291.8	6714.3	4409.6	3502.9	3362.5	4058.8	5327.2	7637.3	8473.8
70°	3189.8	3567.6	3923.9	3664.8	2552.9	1441.1	1360.1	1705.6	2687.9	4393.4	4496.0
72.5°	966.1	971.5	1360.1	1419.5	825.8	323.8	286.1	377.8	912.2	1451.9	1527.5
75°	70.2	75.6	183.5	210.5	156.5	81.0	86.4	102.5	194.3	323.8	242.9
77.5°	5.4	5.4	5.4	27.0	48.6	54.0	70.2	81.0	102.5	118.7	107.9
80°	5.4	0.0	5.4	21.6	37.8	54.0	64.8	75.6	81.0	91.8	81.0
82.5°	0.0	0.0	0.0	16.2	37.8	54.0	59.4	81.0	91.8	107.9	91.8
85°	0.0	0.0	0.0	16.2	37.8	59.4	54.0	27.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4
2.5°	14713.2	14502.7	14022.3	13779.4	13207.3	13126.4	12565.0	12473.3	12284.4	12181.8	11933.5
5°	13461.0	13207.3	12424.7	11766.2	10999.8	10465.5	10055.3	9682.8	9467.0	9267.3	9359.0
7.5°	12440.9	11701.5	10832.5	9731.4	8846.3	8274.1	7648.0	7135.3	6833.0	6627.9	6676.5
10°	11372.2	10891.9	9682.8	8446.9	7378.2	6973.4	6482.2	6088.2	5661.8	5294.8	5122.1
12.5°	11037.6	10325.1	8808.5	7550.9	6741.3	6347.3	5786.0	5332.6	4787.4	4339.5	4182.9
15°	11097.0	10411.5	8571.0	7227.1	6271.7	5591.7	4922.4	4361.1	3762.0	3448.9	3287.0
17.5°	12063.1	10875.7	8727.5	6887.0	5618.6	4674.1	3848.3	3135.9	2687.9	2364.0	2293.9
20°	13250.5	11879.6	9062.2	6638.7	5084.3	3718.8	2812.0	2196.7	1824.3	1770.3	1754.1
22.5°	14988.4	13520.4	9780.0	6471.4	4431.2	2898.4	1926.9	1597.6	1495.1	1484.3	1489.7
25°	17417.3	15576.8	10562.6	6331.1	3940.1	2234.5	1576.0	1354.7	1322.4	1306.2	1333.1
27.5°	18469.7	16818.1	10978.2	6028.8	3492.1	2013.2	1554.4	1343.9	1252.2	1225.2	1241.4
30°	19770.5	17643.9	11631.3	5510.7	2833.6	1657.0	1451.9	1462.7	1419.5	1284.6	1241.4
32.5°	21497.6	18674.8	11960.5	5143.7	2531.4	1370.9	1063.3	976.9	1090.3	1111.9	1149.6
35°	22604.1	19721.9	12127.8	4927.8	2374.8	1171.2	901.4	820.4	793.4	798.8	820.4
37.5°	24660.5	21136.0	12338.3	4701.1	2256.1	1020.1	815.0	739.4	701.7	701.7	723.2
40°	25891.1	22258.7	12624.4	4577.0	2137.4	928.3	739.4	674.7	642.3	642.3	653.1
42.5°	26198.7	22814.6	12527.3	4533.8	2002.4	906.8	674.7	626.1	588.3	582.9	577.5
45°	26749.3	23662.0	12543.4	4485.2	1862.1	825.8	636.9	582.9	528.9	523.5	518.1
47.5°	27353.8	24271.9	12575.8	4296.3	1727.2	690.9	663.9	539.7	475.0	464.2	464.2
50°	26835.6	24757.6	12856.5	4107.4	1554.4	561.3	653.1	507.4	421.0	404.8	410.2
52.5°	26900.4	25329.8	13450.2	3842.9	1338.5	448.0	528.9	480.4	383.2	356.2	361.6
55°	25864.1	24725.3	13531.2	3562.3	1047.1	345.4	404.8	421.0	323.8	313.0	313.0
57.5°	22264.1	20936.3	11938.9	2887.6	690.9	286.1	291.5	367.0	280.7	269.9	275.3
60°	19052.6	16807.3	9607.3	1905.3	431.8	226.7	210.5	372.4	248.3	242.9	259.1
62.5°	17368.7	13811.8	7286.4	1182.0	296.9	172.7	145.7	302.3	215.9	215.9	237.5
65°	12548.8	9278.0	4236.9	620.7	210.5	134.9	107.9	172.7	178.1	183.5	194.3
67.5°	7772.2	4684.9	1786.5	302.3	140.3	91.8	70.2	107.9	118.7	118.7	129.5
70°	3837.5	1867.5	593.7	172.7	107.9	75.6	48.6	59.4	59.4	54.0	59.4
72.5°	1187.4	561.3	151.1	107.9	75.6	48.6	27.0	21.6	10.8	0.0	5.4
75°	134.9	107.9	97.2	75.6	48.6	21.6	5.4	0.0	0.0	0.0	0.0
77.5°	81.0	91.8	91.8	75.6	48.6	16.2	0.0	0.0	0.0	0.0	0.0
80°	64.8	70.2	75.6	70.2	43.2	21.6	0.0	0.0	0.0	0.0	0.0
82.5°	81.0	91.8	102.5	91.8	59.4	27.0	10.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	16.2	5.4	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°	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4
2.5°	11831.0	11712.3	11879.6	11631.3	11625.9	11631.3	11561.1	11496.4	11598.9	11874.2	11901.2
5°	9029.8	9283.4	9364.4	9628.9	9483.1	9267.3	9310.4	9164.7	9520.9	9677.4	9553.3
7.5°	6574.0	6557.8	7102.9	7135.3	7205.5	7210.9	7200.1	6914.0	6622.5	6687.3	6881.6
10°	5100.5	4825.2	5089.7	5062.7	5235.4	5186.9	5257.0	4949.4	5051.9	5051.9	5176.1
12.5°	4156.0	3864.5	3815.9	3745.8	3815.9	3842.9	3869.9	3810.5	3983.2	4064.2	4150.6
15°	3173.6	3011.7	2968.5	2833.6	2855.2	2930.8	2995.5	3022.5	2968.5	3092.7	3103.5
17.5°	2304.7	2299.3	2326.3	2320.9	2299.3	2283.1	2277.7	2207.5	2185.9	2196.7	2239.9
20°	1748.7	1791.9	1883.7	1975.4	2024.0	1964.6	1883.7	1764.9	1716.4	1727.2	1732.5
22.5°	1495.1	1559.8	1684.0	1786.5	1835.1	1727.2	1581.4	1478.9	1457.3	1451.9	1446.5
25°	1354.7	1430.3	1522.1	1554.4	1549.0	1484.3	1376.3	1333.1	1322.4	1311.6	1263.0
27.5°	1279.2	1306.2	1322.4	1360.1	1376.3	1333.1	1306.2	1241.4	1230.6	1230.6	1198.2
30°	1236.0	1219.8	1241.4	1214.4	1236.0	1203.6	1209.0	1209.0	1182.0	1192.8	1192.8
32.5°	1149.6	1155.0	1155.0	1101.1	1117.3	1079.5	1117.3	1149.6	1155.0	1160.4	1203.6
35°	842.0	939.1	987.7	987.7	1003.9	976.9	971.5	933.7	885.2	836.6	815.0
37.5°	739.4	777.2	842.0	879.8	906.8	885.2	836.6	777.2	750.2	728.6	707.1
40°	658.5	690.9	734.0	777.2	831.2	804.2	728.6	701.7	669.3	669.3	647.7
42.5°	593.7	609.9	636.9	701.7	761.0	707.1	653.1	631.5	615.3	609.9	604.5
45°	534.3	539.7	566.7	620.7	690.9	636.9	582.9	555.9	561.3	566.7	561.3
47.5°	480.4	491.2	507.4	572.1	615.3	588.3	528.9	512.7	512.7	512.7	518.1
50°	415.6	442.6	475.0	528.9	561.3	545.1	496.6	475.0	464.2	464.2	469.6
52.5°	372.4	394.0	437.2	502.0	545.1	518.1	469.6	437.2	415.6	410.2	421.0
55°	323.8	361.6	431.8	480.4	539.7	512.7	458.8	421.0	383.2	377.8	377.8
57.5°	291.5	350.8	415.6	475.0	523.5	502.0	458.8	410.2	361.6	356.2	356.2
60°	275.3	340.0	404.8	458.8	523.5	491.2	453.4	399.4	345.4	345.4	340.0
62.5°	259.1	318.4	383.2	437.2	502.0	475.0	437.2	383.2	329.2	329.2	318.4
65°	215.9	275.3	318.4	367.0	437.2	410.2	372.4	334.6	291.5	280.7	286.1
67.5°	151.1	188.9	232.1	280.7	323.8	313.0	296.9	269.9	232.1	226.7	221.3
70°	75.6	102.5	140.3	188.9	226.7	215.9	205.1	183.5	161.9	156.5	156.5
72.5°	10.8	32.4	59.4	86.4	118.7	124.1	118.7	113.3	107.9	102.5	107.9
75°	0.0	0.0	0.0	21.6	48.6	59.4	70.2	81.0	81.0	70.2	86.4
77.5°	0.0	0.0	0.0	0.0	5.4	27.0	54.0	70.2	86.4	75.6	102.5
80°	0.0	0.0	0.0	0.0	5.4	32.4	54.0	75.6	86.4	75.6	107.9
82.5°	0.0	0.0	0.0	0.0	5.4	37.8	54.0	70.2	81.0	75.6	97.2
85°	0.0	0.0	0.0	0.0	16.2	32.4	21.6	10.8	5.4	5.4	16.2
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: P533487

CATALOG NUMBER: GALN-SA8D-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4	13914.4
2.5°	12052.3	12435.5	12845.7	13002.2	13488.0	13855.0	14103.3	14637.6	14718.6	14724.0
5°	9682.8	9877.2	10578.8	10908.0	11631.3	12192.6	12791.7	13655.3	14232.8	14276.0
7.5°	6881.6	7421.4	7718.2	8576.4	9467.0	10346.7	11237.3	12241.2	12910.5	12926.7
10°	5537.7	5888.5	6417.4	7059.7	7810.0	8705.9	9893.3	11059.2	11739.2	11906.6
12.5°	4458.2	5073.5	5678.0	6341.9	6914.0	7588.7	8867.8	10422.3	10983.6	11318.2
15°	3432.7	3994.0	4706.5	5483.7	6131.4	7032.7	8490.0	10265.8	11210.3	11323.6
17.5°	2531.4	3033.3	3691.8	4425.8	5397.4	6676.5	8554.8	11059.2	11949.7	12138.6
20°	1818.9	2110.4	2628.5	3481.3	4717.3	6260.9	8619.6	11863.4	13218.1	13542.0
22.5°	1441.1	1559.8	1899.9	2655.5	3956.3	5823.7	9078.3	13401.6	14961.5	15431.0
25°	1252.2	1317.0	1478.9	2094.2	3475.9	5780.6	9812.4	15247.5	17282.3	17622.3
27.5°	1209.0	1219.8	1360.1	1921.5	3216.8	5494.5	10093.0	16559.1	18728.8	19074.2
30°	1273.8	1446.5	1457.3	1624.6	2736.5	4927.8	10238.8	17827.4	19954.0	20207.7
32.5°	1101.1	1047.1	1084.9	1257.6	2407.2	4598.5	10514.0	18933.9	21351.9	21530.0
35°	766.4	804.2	890.6	1090.3	2105.0	4253.1	10584.2	20153.7	22679.7	22863.2
37.5°	707.1	728.6	798.8	928.3	1851.3	4058.8	10487.1	21044.3	24056.0	24309.7
40°	658.5	685.5	723.2	842.0	1662.4	3842.9	10352.1	21848.5	24898.0	25524.1
42.5°	620.7	642.3	674.7	804.2	1500.5	3627.0	10163.2	22981.9	25653.6	26198.7
45°	577.5	609.9	647.7	782.6	1408.7	3481.3	10022.9	22911.8	26090.8	26382.2
47.5°	534.3	588.3	631.5	728.6	1381.7	3411.1	10082.3	22647.3	25734.6	25534.9
50°	491.2	561.3	636.9	604.5	1317.0	3270.8	10152.4	23008.9	24887.2	24849.4
52.5°	453.4	534.3	593.7	496.6	1171.2	3135.9	10832.5	23483.9	25486.3	24984.3
55°	399.4	480.4	475.0	399.4	949.9	3033.3	11366.8	23494.7	25081.5	25270.4
57.5°	361.6	426.4	372.4	334.6	701.7	2536.8	10497.8	19700.3	21470.7	21805.3
60°	334.6	415.6	280.7	264.5	458.8	1829.7	9164.7	15258.3	17066.4	17697.9
62.5°	307.6	394.0	221.3	215.9	318.4	1300.8	7534.7	12770.1	14707.8	15566.0
65°	269.9	280.7	178.1	167.3	226.7	701.7	4587.7	8792.3	10994.4	11312.8
67.5°	221.3	215.9	145.7	134.9	151.1	340.0	2024.0	4404.2	6374.3	6908.6
70°	178.1	178.1	124.1	107.9	107.9	156.5	528.9	1754.1	2882.2	3189.8
72.5°	129.5	134.9	97.2	86.4	81.0	75.6	86.4	350.8	755.6	966.1
75°	113.3	118.7	97.2	75.6	59.4	48.6	37.8	32.4	43.2	70.2
77.5°	124.1	124.1	102.5	70.2	54.0	37.8	21.6	10.8	10.8	5.4
80°	156.5	161.9	134.9	91.8	64.8	43.2	27.0	10.8	5.4	5.4
82.5°	167.3	183.5	151.1	113.3	81.0	48.6	27.0	5.4	0.0	0.0
85°	43.2	70.2	118.7	102.5	81.0	48.6	27.0	5.4	0.0	0.0
87.5°	0.0	5.4	16.2	16.2	21.6	21.6	16.2	5.4	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)