

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: P457800

Luminaire Tested: **GALN-SA9A-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23659 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

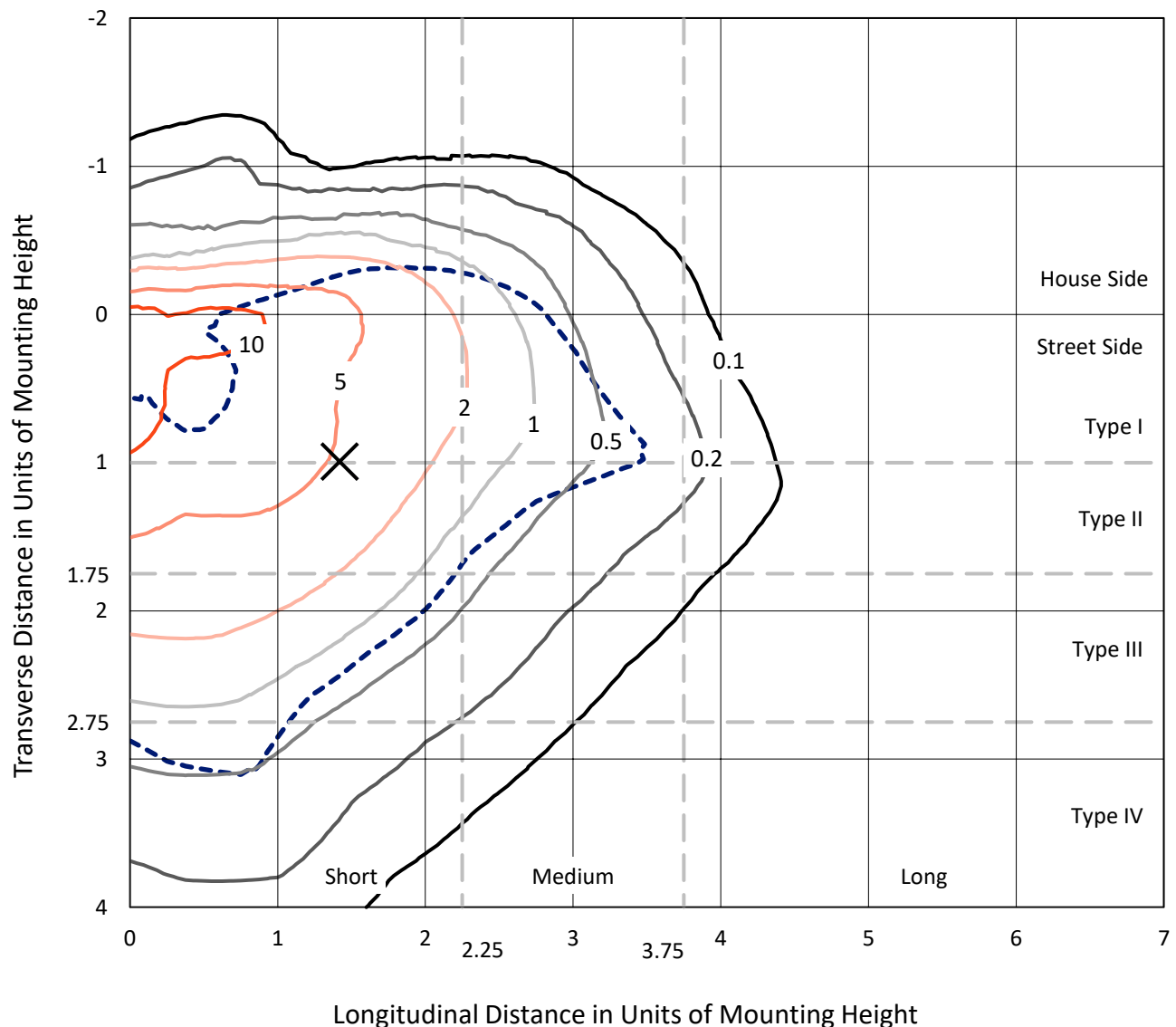


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Iso-Footcandle Lines of Horizontal Illumination

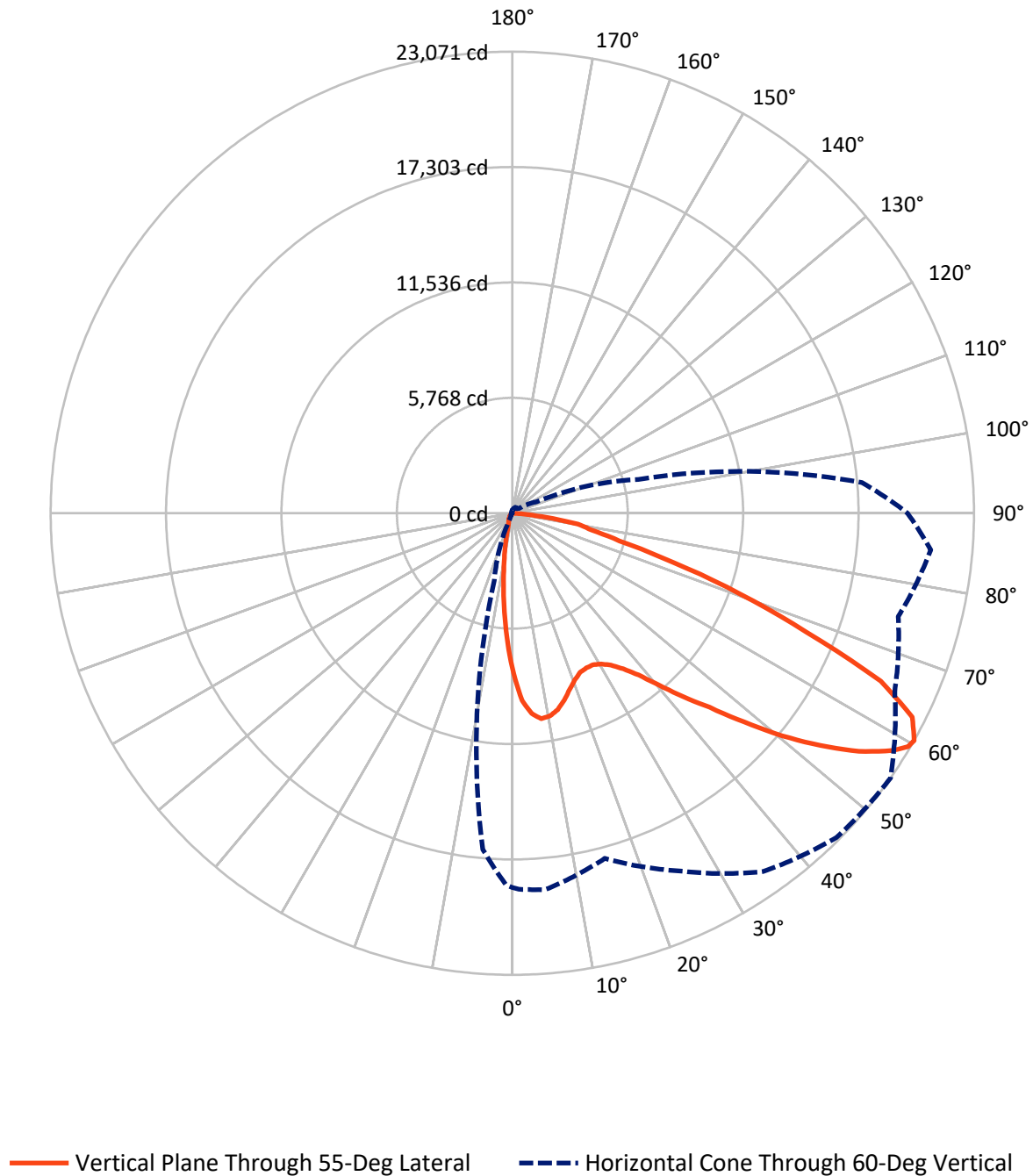
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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	3511.2	0.0	3511.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	20147.8	0.0	20147.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	23659.0	0.0	23659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.2	2.5
10°-20°	1168.2	4.9
20°-30°	1729.1	7.3
30°-40°	2577.4	10.9
40°-50°	3774.7	16.0
50°-60°	5449.5	23.0
60°-70°	5732.6	24.2
70°-80°	2358.2	10.0
80°-90°	276.2	1.2
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°	23659.0	100.0
0°-180°	23659.0	100.0

Coefficient of Utilization



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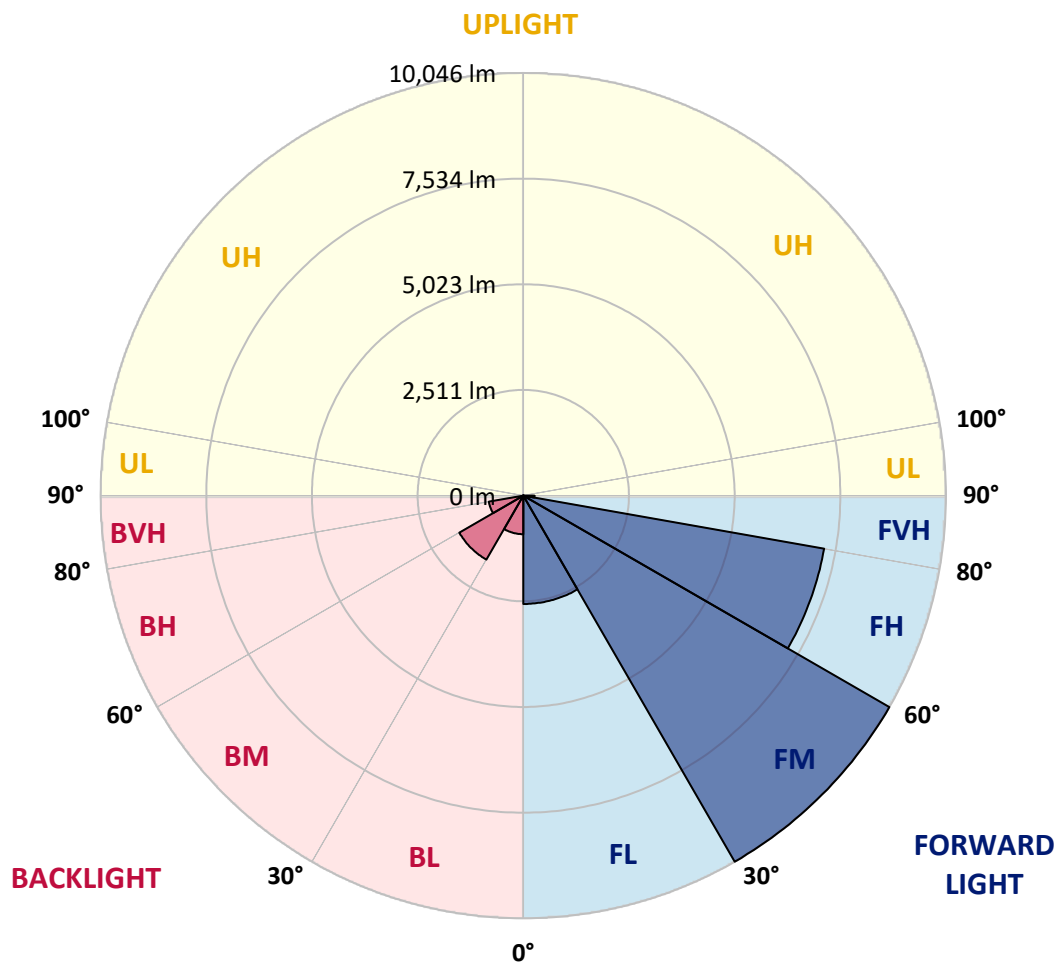
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2574.4	10.9			
FM	(30°-60°)	10045.6	42.5			
FH	(60°-80°)	7259.7	30.7			G3/7500
FVH	(80°-90°)	268.1	1.1			G3/500
BL	(0°-30°)	916.1	3.9	B2/1000		
BM	(30°-60°)	1755.9	7.4	B2/2500		
BH	(60°-80°)	831.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	8.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9
2.5°	8752.0	8737.5	8866.8	9078.0	9291.1	9402.2	9380.3	9371.2	9194.6	9065.3	8793.9
5°	8733.8	8808.5	9039.8	9611.6	10045.0	10254.4	10316.3	10055.9	9711.7	9212.8	8597.3
7.5°	8211.2	8304.1	8681.0	9575.2	10345.5	10800.7	10784.4	10367.3	9657.1	8885.0	8007.2
10°	7562.9	7672.2	8114.7	9200.0	10199.8	10800.7	10833.5	10305.4	9422.2	8431.5	7508.3
12.5°	7105.8	7235.1	7725.0	8850.4	9824.7	10416.5	10454.7	10072.3	9245.6	8256.7	7236.9
15°	6951.0	7073.0	7570.2	8673.7	9425.8	9744.5	9735.4	9695.4	9176.4	8298.6	7251.5
17.5°	7216.9	7317.0	7877.9	8753.9	9052.5	9019.7	9067.1	9260.1	9190.9	8650.1	7710.4
20°	7903.4	8005.4	8608.2	8999.7	8766.6	8559.0	8580.9	8903.2	9325.7	9311.1	8427.9
22.5°	8848.6	9021.6	9567.9	9476.8	8728.4	8273.1	8227.6	8646.4	9555.1	10072.3	9396.7
25°	10045.0	10219.8	10646.0	10238.0	8915.9	8205.7	8163.8	8568.1	9833.8	10815.3	10487.5
27.5°	11050.2	11183.2	11607.5	10979.2	9192.7	8234.9	8165.7	8579.0	10059.6	11447.2	11407.2
30°	11855.1	11953.5	12203.0	11325.2	9431.3	8362.3	8282.2	8739.3	10159.7	11755.0	12152.0
32.5°	12503.4	12669.2	12747.5	11694.9	9773.7	8602.7	8466.1	9047.1	10403.8	12135.6	12933.2
35°	13244.6	13435.8	13335.7	12048.2	10225.3	8977.9	8810.3	9546.0	10773.4	12487.1	13840.1
37.5°	14184.3	14404.6	14013.1	12419.7	10702.4	9542.4	9464.1	10247.1	11334.3	12989.7	14812.6
40°	15156.7	15284.2	14670.5	12871.3	11288.8	10363.7	10438.4	11288.8	12068.2	13592.4	15846.9
42.5°	15916.1	16036.3	15346.1	13250.1	11887.9	11338.0	11649.4	12545.3	12909.5	14209.8	16619.1
45°	16497.0	16599.0	15814.1	13663.5	12696.5	12749.3	13337.5	13840.1	13752.7	14586.7	17214.5
47.5°	16948.7	17036.1	16174.7	14107.8	13907.5	14475.7	15375.3	15588.3	14626.8	14994.7	17753.6
50°	17134.4	17159.9	16287.6	14674.2	15282.4	16675.5	17613.4	17484.1	15628.4	15448.1	18327.2
52.5°	17376.6	17371.2	16609.9	15213.2	16575.3	18642.3	19578.3	19285.1	16761.1	16127.4	18971.9
55°	18012.2	18019.5	17300.1	15978.0	17677.1	20230.2	21231.8	21018.8	17955.7	17274.6	19724.0
57.5°	18784.3	18811.6	18281.7	16872.2	18729.7	21381.1	22466.5	22384.6	19571.0	18551.2	20434.2
59°	18884.5	18939.1	18746.1	17502.3	19354.3	21734.4	22889.0	22969.1	20436.0	19392.5	20818.4
60°	18702.4	18793.4	18880.8	17859.2	19720.3	21861.9	22914.5	23071.1	21086.1	19964.4	20993.3
62.5°	17908.4	18052.2	18491.1	18957.3	20177.4	21464.9	22100.5	22428.3	21891.0	21466.7	21009.6
65°	16868.5	16943.2	17576.9	19152.2	19290.6	19611.1	19807.7	20228.4	20924.1	22045.8	20257.5
67.5°	15164.0	15384.4	16160.1	18021.3	16673.7	16294.9	16245.7	15826.9	17633.4	20665.5	18403.7
70°	12527.1	12625.5	13581.5	14774.3	12583.6	12000.8	12233.9	12077.3	13668.9	17790.0	14812.6
72.5°	9473.2	9695.4	10629.6	11776.8	8562.7	7806.9	8449.7	8391.5	10267.2	14297.2	10176.1
75°	6739.8	6883.6	8074.6	9216.4	5996.8	5080.8	5312.1	5528.8	7167.7	11288.8	6013.2
77.5°	4631.0	4754.8	5648.9	6095.1	4374.2	4190.3	3833.3	4042.8	4696.5	6697.9	3272.5
80°	2793.5	2788.1	3376.3	3485.5	3046.6	3538.3	2968.3	3332.6	2839.0	2866.4	1267.5
82.5°	1813.8	1795.6	2065.1	2250.8	1695.4	1782.8	1196.4	1724.6	1850.2	799.4	400.6
85°	812.2	846.8	992.5	1309.3	743.0	395.2	244.0	529.9	788.5	402.5	0.0
87.5°	83.8	65.6	174.8	318.7	102.0	10.9	36.4	18.2	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°	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9
2.5°	8668.3	8562.7	8247.6	7952.6	7699.5	7389.9	7189.6	6874.5	6683.3	6625.0	6634.1
5°	8320.5	8016.3	7417.2	6938.3	6404.7	6100.6	5638.0	5193.7	4953.3	4864.1	4824.0
7.5°	7592.0	7266.1	6543.1	5791.0	5219.2	4685.6	4341.4	3949.9	3682.2	3461.8	3423.6
10°	7051.2	6623.2	5727.3	4918.7	4467.1	4066.4	3722.3	3330.7	3015.7	2764.4	2695.2
12.5°	6727.0	6248.1	5248.3	4570.9	4142.9	3731.4	3283.4	2829.9	2507.6	2236.3	2110.6
15°	6668.7	6113.3	5113.6	4321.4	3793.3	3296.1	2700.6	2210.8	1879.3	1622.6	1544.3
17.5°	7020.2	6355.5	5093.5	4061.0	3336.2	2631.4	2012.3	1606.2	1232.9	1089.0	1032.5
20°	7646.7	6783.5	5091.7	3758.7	2866.4	2026.8	1413.1	1047.1	896.0	826.8	794.0
22.5°	8500.7	7366.2	5188.2	3498.3	2378.3	1495.1	1008.9	834.0	746.6	690.2	677.4
25°	9544.2	8229.4	5425.0	3321.6	2005.0	1172.8	832.2	713.9	641.0	615.5	604.6
27.5°	10471.1	9056.2	5685.4	3139.5	1737.3	1038.0	772.1	653.8	595.5	575.5	559.1
30°	11270.6	9806.4	5811.0	2899.1	1522.4	950.6	783.1	699.3	622.8	562.7	535.4
32.5°	11937.1	10381.9	5893.0	2680.6	1340.3	777.6	619.2	540.9	506.3	484.4	466.2
35°	12771.1	11004.7	5843.8	2556.8	1247.4	708.4	564.5	466.2	407.9	364.2	346.0
37.5°	13645.3	11627.5	5758.2	2454.8	1205.5	657.4	537.2	442.5	378.8	333.3	309.6
40°	14550.3	12204.8	5658.1	2360.1	1167.3	624.6	520.8	422.5	358.8	309.6	284.1
42.5°	15378.9	12767.5	5618.0	2298.2	1105.4	630.1	508.1	413.4	338.7	287.7	265.9
45°	16049.1	13301.1	5672.6	2265.4	1038.0	621.0	511.7	402.5	322.3	273.2	251.3
47.5°	16764.7	14055.0	5849.3	2232.6	972.4	577.3	539.0	400.6	315.0	264.1	240.4
50°	17597.0	15020.2	6253.5	2152.5	892.3	529.9	573.6	398.8	305.9	253.1	229.5
52.5°	18706.0	16116.4	6670.6	2012.3	775.8	484.4	548.1	393.4	287.7	240.4	216.7
55°	19702.1	17271.0	7023.9	1846.6	628.3	418.8	493.5	369.7	256.8	218.5	196.7
57.5°	20113.7	17922.9	7012.9	1617.1	502.6	367.9	406.1	338.7	224.0	193.0	174.8
59°	19962.5	17841.0	6778.0	1447.7	458.9	340.5	336.9	335.1	209.4	174.8	160.3
60°	19749.5	17542.3	6524.9	1364.0	431.6	322.3	309.6	331.4	196.7	163.9	149.3
62.5°	18933.6	16304.0	5685.4	1221.9	395.2	273.2	247.7	280.4	174.8	142.0	129.3
65°	17751.8	14401.0	4813.1	1181.9	384.2	225.8	205.8	200.3	149.3	120.2	109.3
67.5°	15446.3	12186.6	3898.9	1154.6	387.9	189.4	180.3	151.1	123.8	100.2	92.9
70°	12366.9	9502.3	3192.3	1123.6	391.5	154.8	151.1	120.2	100.2	83.8	76.5
72.5°	7513.7	5632.6	2513.1	976.1	380.6	123.8	134.8	91.1	72.8	60.1	56.5
75°	4645.5	3855.2	1558.8	759.4	251.3	91.1	94.7	56.5	49.2	38.2	38.2
77.5°	2691.5	2434.8	557.2	273.2	111.1	54.6	41.9	29.1	27.3	16.4	16.4
80°	1116.3	894.1	193.0	92.9	60.1	25.5	9.1	1.8	0.0	0.0	0.0
82.5°	326.0	289.5	52.8	41.9	18.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9
2.5°	6479.4	6419.3	6391.9	6484.8	6399.2	6508.5	6424.7	6461.1	6568.6	6615.9	6737.9
5°	4849.5	4787.6	4758.4	4898.7	4891.4	4960.6	4953.3	5017.0	5071.7	4949.7	5075.3
7.5°	3378.1	3336.2	3405.4	3514.7	3631.2	3593.0	3593.0	3507.4	3536.5	3518.3	3512.8
10°	2569.5	2425.7	2389.2	2385.6	2429.3	2438.4	2389.2	2270.9	2314.6	2327.3	2403.8
12.5°	2021.4	1910.3	1740.9	1664.5	1644.4	1660.8	1498.7	1394.9	1444.1	1415.0	1489.6
15°	1449.6	1358.5	1258.4	1172.8	1149.1	1116.3	939.7	815.8	801.3	806.7	819.5
17.5°	1034.4	972.4	972.4	881.4	832.2	733.9	644.7	590.0	584.6	590.0	599.1
20°	763.0	730.2	726.6	702.9	648.3	582.7	520.8	509.9	506.3	515.4	519.0
22.5°	657.4	622.8	593.7	591.8	540.9	486.2	457.1	442.5	444.3	448.0	457.1
25°	588.2	551.8	520.8	502.6	466.2	428.0	400.6	393.4	393.4	398.8	400.6
27.5°	539.0	493.5	466.2	440.7	407.9	375.1	351.5	346.0	342.4	346.0	355.1
30°	504.4	458.9	424.3	386.1	360.6	329.6	309.6	302.3	300.5	302.3	309.6
32.5°	431.6	404.3	377.0	342.4	311.4	291.4	269.5	256.8	256.8	260.4	267.7
35°	326.0	311.4	309.6	300.5	275.0	253.1	227.6	214.9	214.9	222.2	225.8
37.5°	287.7	260.4	256.8	253.1	242.2	213.1	189.4	178.5	176.6	182.1	189.4
40°	262.2	231.3	214.9	211.2	213.1	180.3	154.8	143.9	143.9	145.7	153.0
42.5°	242.2	205.8	176.6	173.0	180.3	151.1	125.7	114.7	114.7	114.7	123.8
45°	225.8	183.9	149.3	131.1	142.0	123.8	102.0	91.1	87.4	91.1	94.7
47.5°	214.9	167.5	131.1	105.6	105.6	98.3	81.9	69.2	65.6	67.4	72.8
50°	205.8	153.0	111.1	85.6	76.5	78.3	61.9	52.8	49.2	49.2	54.6
52.5°	191.2	138.4	96.5	72.8	58.3	52.8	45.5	38.2	36.4	38.2	41.9
55°	173.0	125.7	83.8	60.1	45.5	36.4	32.8	27.3	25.5	27.3	32.8
57.5°	153.0	105.6	67.4	47.3	31.0	23.7	21.9	18.2	14.6	16.4	20.0
59°	140.2	94.7	58.3	38.2	23.7	16.4	16.4	12.7	9.1	10.9	16.4
60°	134.8	87.4	49.2	32.8	20.0	12.7	12.7	9.1	5.5	7.3	12.7
62.5°	114.7	72.8	38.2	20.0	9.1	1.8	5.5	1.8	0.0	1.8	5.5
65°	96.5	58.3	25.5	9.1	0.0	0.0	0.0	0.0	0.0	0.0	1.8
67.5°	80.1	43.7	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	63.7	29.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	43.7	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	27.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P457800

CATALOG NUMBER: GALN-SA9A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9	8010.9
2.5°	6745.2	7005.6	7165.9	7468.2	7777.8	8016.3	8315.0	8582.7	8693.8	8752.0
5°	5202.8	5565.2	5872.9	6333.7	6761.6	7282.4	7810.6	8433.4	8671.9	8733.8
7.5°	3651.2	4020.9	4343.2	4876.8	5486.9	6184.3	6974.7	7765.0	8112.9	8211.2
10°	2636.9	3032.1	3425.4	3959.0	4529.0	5284.7	6107.9	7085.8	7486.4	7562.9
12.5°	1664.5	2088.8	2728.0	3387.2	3990.0	4598.2	5459.6	6523.1	6965.6	7105.8
15°	965.2	1282.0	1764.6	2624.2	3390.8	4195.7	5135.4	6311.8	6807.1	6951.0
17.5°	646.5	755.7	1087.2	1744.6	2757.1	3824.2	5053.5	6484.8	7033.0	7216.9
20°	544.5	593.7	710.2	1063.5	2123.4	3492.8	5075.3	6954.7	7674.0	7903.4
22.5°	478.9	524.5	599.1	764.8	1482.3	3081.2	5179.1	7626.6	8555.4	8848.6
25°	422.5	468.0	533.6	633.7	996.1	2605.9	5406.7	8610.0	9722.7	10045.0
27.5°	375.1	417.0	473.5	559.1	766.7	2076.0	5608.9	9567.9	10788.0	11050.2
30°	331.4	366.0	420.7	486.2	637.4	1600.7	5710.9	10405.6	11563.8	11855.1
32.5°	287.7	320.5	373.3	426.1	524.5	1220.1	5639.8	11021.1	12317.7	12503.4
35°	245.8	280.4	324.1	373.3	453.4	985.2	5284.7	11713.1	13098.9	13244.6
37.5°	211.2	240.4	285.9	324.1	409.7	788.5	4855.0	12335.9	13974.9	14184.3
40°	178.5	207.6	253.1	287.7	377.0	621.0	4467.1	13027.9	14898.1	15156.7
42.5°	145.7	180.3	220.3	276.8	324.1	473.5	3997.2	13588.8	15592.0	15916.1
45°	116.5	154.8	198.5	275.0	282.3	360.6	3543.8	14025.9	16205.7	16497.0
47.5°	92.9	131.1	191.2	256.8	231.3	285.9	3285.2	14482.9	16715.6	16948.7
50°	74.7	109.3	200.3	225.8	193.0	242.2	3277.9	14992.8	16979.6	17134.4
52.5°	60.1	89.2	169.4	173.0	163.9	213.1	3474.6	15566.5	17249.1	17376.6
55°	51.0	74.7	111.1	127.5	147.5	193.0	3622.1	16449.7	17892.0	18012.2
57.5°	40.1	63.7	85.6	102.0	131.1	176.6	3642.1	17130.8	18706.0	18784.3
59°	34.6	54.6	76.5	91.1	120.2	165.7	3560.2	17172.7	18758.8	18884.5
60°	29.1	49.2	67.4	85.6	111.1	156.6	3471.0	16868.5	18562.1	18702.4
62.5°	21.9	38.2	49.2	69.2	91.1	134.8	3048.5	15806.9	17810.0	17908.4
65°	14.6	27.3	36.4	51.0	71.0	116.5	2483.9	14430.1	16648.2	16868.5
67.5°	9.1	20.0	29.1	38.2	58.3	98.3	1770.1	12374.1	15022.0	15164.0
70°	5.5	12.7	21.9	31.0	45.5	78.3	1050.8	9780.9	12498.0	12527.1
72.5°	3.6	9.1	14.6	21.9	36.4	71.0	509.9	6375.6	9125.4	9473.2
75°	1.8	5.5	9.1	16.4	29.1	58.3	244.0	4259.5	6639.6	6739.8
77.5°	0.0	1.8	5.5	10.9	21.9	45.5	142.0	2797.2	4527.2	4631.0
80°	0.0	0.0	3.6	9.1	16.4	29.1	85.6	1649.9	2742.5	2793.5
82.5°	0.0	0.0	1.8	7.3	10.9	21.9	43.7	724.8	1795.6	1813.8
85°	0.0	0.0	1.8	7.3	9.1	14.6	16.4	98.3	797.6	812.2
87.5°	0.0	0.0	1.8	9.1	9.1	9.1	9.1	5.5	67.4	83.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)