

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: P532317

Luminaire Tested: **GALN-SA7C-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532317
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-SA7C-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA 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: 21512 lumens
Efficiency: N/A
Efficacy: 57.1 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): 377
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

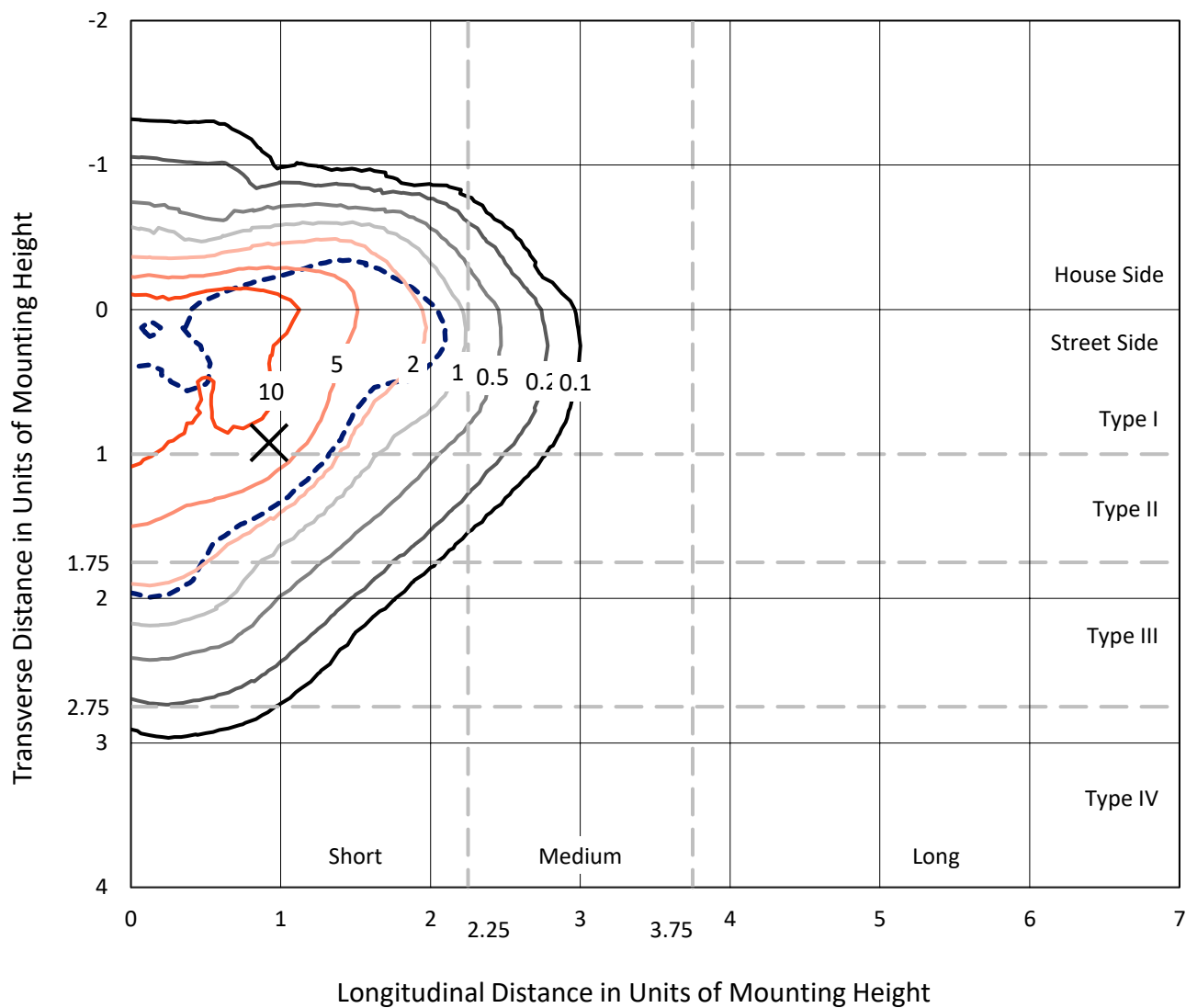


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

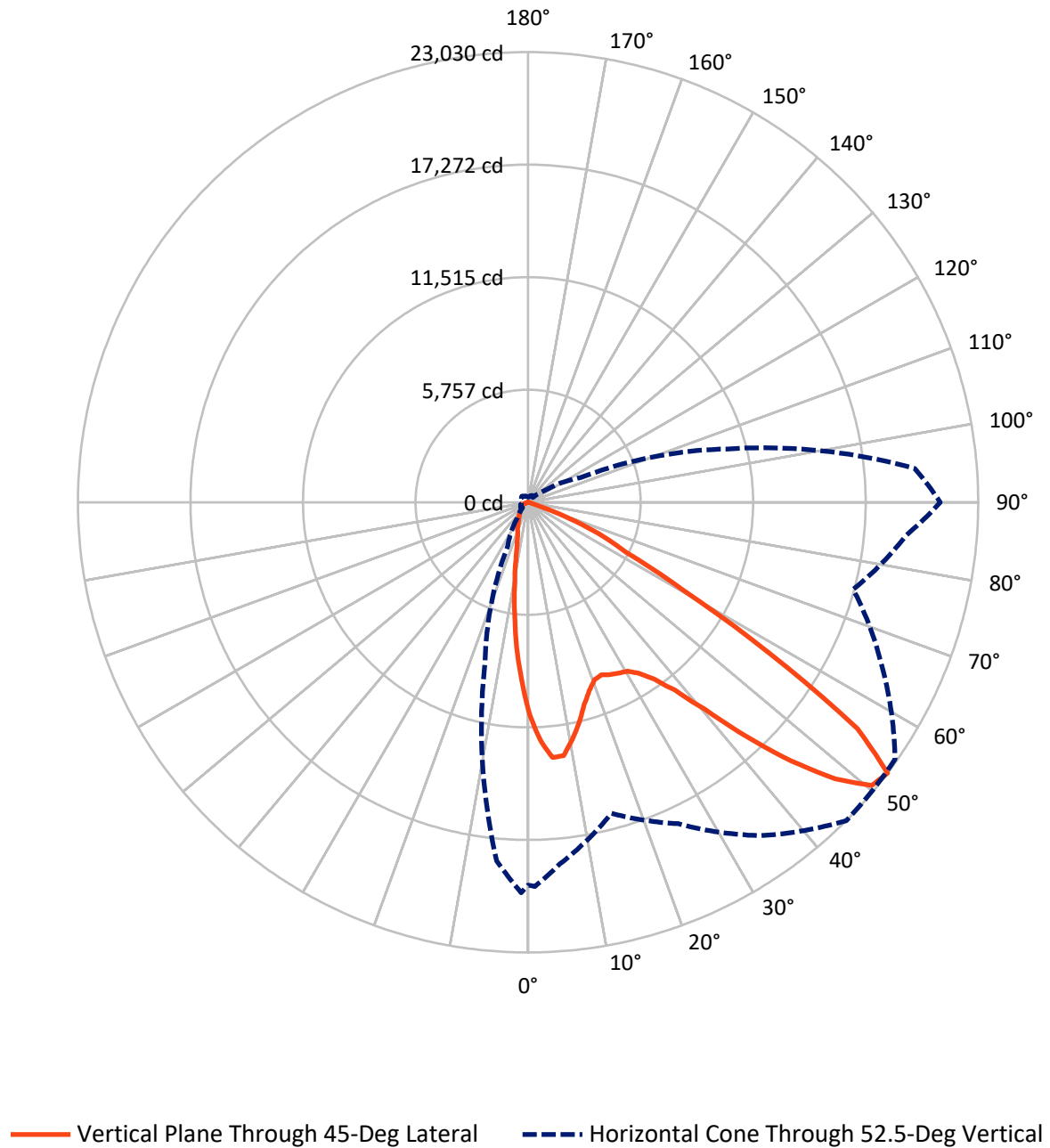
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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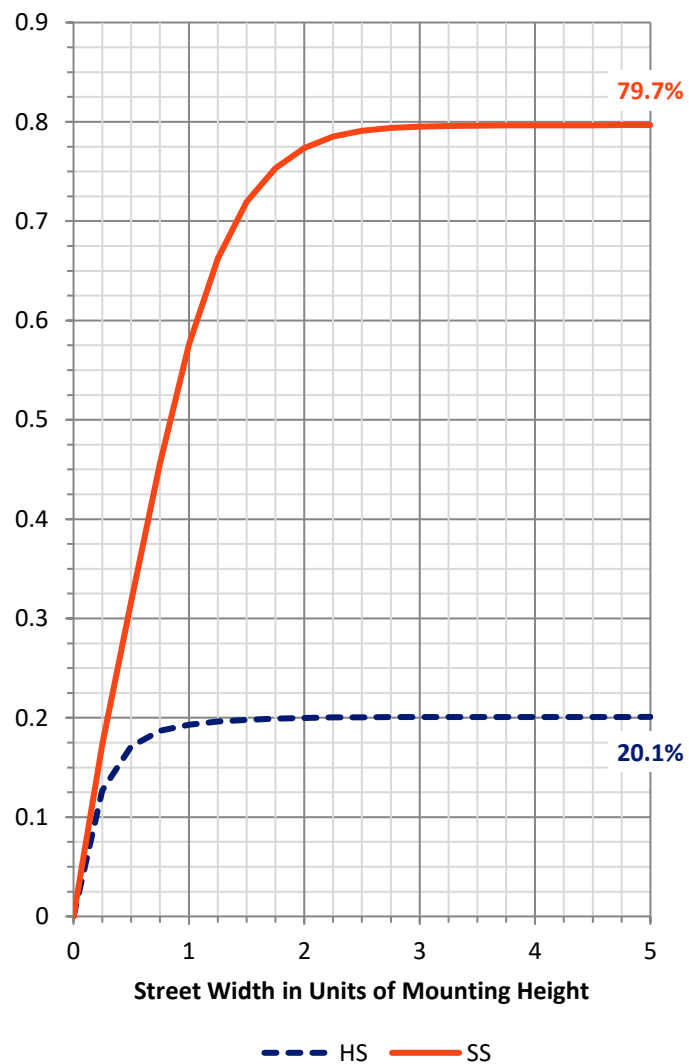
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4365.9	0.0	4365.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	17146.1	0.0	17146.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	21512.0	0.0	21512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.5	3.7
10°-20°	1569.4	7.3
20°-30°	2388.4	11.1
30°-40°	3569.8	16.6
40°-50°	5083.7	23.6
50°-60°	5464.8	25.4
60°-70°	2421.6	11.3
70°-80°	195.9	0.9
80°-90°	22.8	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°	21512.0	100.0
0°-180°	21512.0	100.0

Coefficient of Utilization



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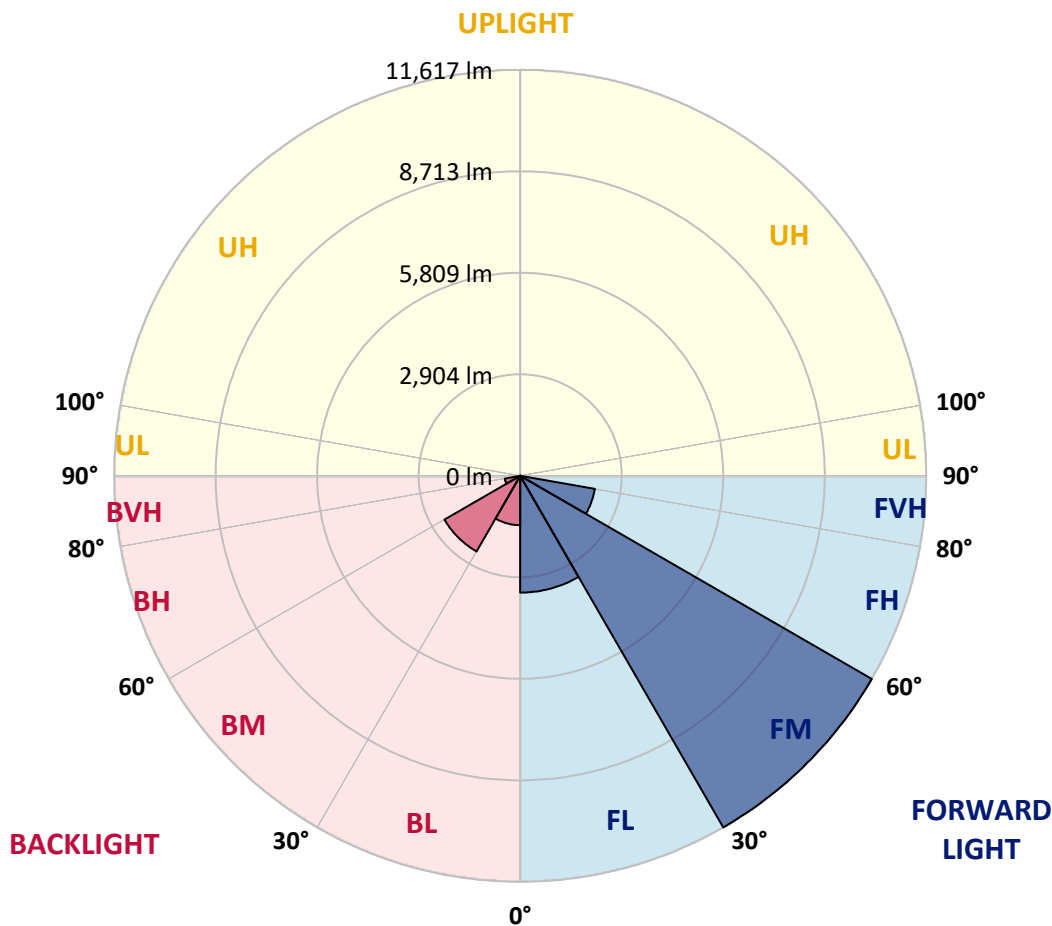
CATALOG NUMBER: GALN-SA7C-830-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3341.3	15.5			
FM	(30°-60°)	11617.1	54.0			
FH	(60°-80°)	2170.8	10.1			G2/5000
FVH	(80°-90°)	16.9	0.1			G1/100
BL	(0°-30°)	1412.1	6.6	B3/2500		
BM	(30°-60°)	2501.2	11.6	B3/5000		
BH	(60°-80°)	446.7	2.1	B1/500		G1/500
BVH	(80°-90°)	5.9	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°	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6
2.5°	11542.2	11576.1	11762.3	11995.0	12117.7	12396.9	12202.3	12253.1	12147.3	11774.9	11483.0
5°	11191.1	11186.8	11423.8	11999.2	12545.0	13099.3	13116.2	12820.0	12299.6	11728.4	10911.8
7.5°	10133.3	10298.3	10543.7	11461.8	12473.1	12887.7	13086.6	12739.6	11940.0	11123.4	10239.1
10°	9333.6	9418.3	9832.9	10941.4	11681.9	12236.1	12358.8	12160.0	11546.5	10526.8	9536.7
12.5°	8872.5	8914.8	9401.3	10332.2	11114.9	11525.3	11584.5	11677.6	11237.6	10281.4	9092.5
15°	8876.7	8910.5	9566.3	10344.9	10653.7	10543.7	10738.3	10734.1	10924.5	10234.9	9464.8
17.5°	9515.6	9553.7	10146.0	10531.0	10395.6	10137.5	10124.8	10319.5	10721.4	10814.5	10027.5
20°	10615.6	10704.5	11140.3	11119.1	10357.6	9837.1	9693.3	9841.4	10776.4	11305.3	11161.4
22.5°	12096.5	12219.2	12523.8	11940.0	10531.0	9634.0	9587.5	9875.2	11140.3	12401.1	12447.7
25°	13814.3	14021.6	14169.7	13420.8	11148.8	9985.2	9765.2	10260.2	11631.1	13590.1	14085.1
27.5°	14952.4	15168.2	15134.4	14063.9	11563.4	10078.3	9892.1	10353.3	12058.4	13873.5	14939.8
30°	15841.0	15972.1	16209.1	14410.9	11978.0	10340.6	10023.3	10746.8	12198.0	14364.3	15972.1
32.5°	16877.6	16966.4	16983.3	15024.4	12616.9	10670.6	10429.5	11237.6	12815.8	14834.0	16886.0
35°	17922.6	18053.8	17778.8	15781.7	13010.4	11284.1	11106.4	12088.0	13310.8	15320.5	17893.0
37.5°	19056.5	19124.2	18489.6	16094.8	13573.1	12282.7	12185.4	13006.2	14169.7	16200.6	19010.0
40°	20008.5	20072.0	19246.9	16479.8	14165.5	13678.9	13928.5	14757.8	15337.5	16771.8	19568.5
42.5°	20537.4	20685.5	19500.8	16268.3	15354.4	15261.3	16369.8	16661.8	16691.4	16932.6	20067.8
45°	20681.3	20613.6	19081.9	16441.8	16395.2	17863.4	18870.4	19255.4	18036.9	17228.7	20194.7
47.5°	20017.0	20105.8	18464.2	16289.4	17761.8	19835.0	21138.2	21853.2	19039.6	16970.6	19881.6
50°	19479.6	19365.4	18265.3	16179.4	18129.9	20765.9	22775.6	22936.4	19962.0	17288.0	19538.9
52.5°	19585.4	19657.3	18582.7	16471.4	18138.4	20820.9	23029.5	22919.5	19991.6	17216.0	19416.2
55°	19809.7	19492.3	18447.3	15828.3	16924.1	19285.0	20440.1	20270.8	18451.5	16450.2	19115.8
57.5°	17093.3	17584.1	16962.2	14131.6	13890.5	14529.3	14508.2	15028.6	13763.5	14157.0	17402.2
60°	13873.5	13958.2	14190.9	12088.0	9612.9	9392.9	9088.2	8758.2	9261.7	12105.0	15828.3
62.5°	12202.3	12100.7	12930.0	10996.4	6786.6	5682.3	5631.5	5834.6	7146.2	11546.5	14846.7
65°	8868.2	8995.2	9596.0	8534.0	5094.2	4336.8	4260.6	4861.4	5783.8	9253.3	11330.7
67.5°	5415.7	5661.1	5716.1	5263.4	3456.7	2745.9	2635.9	3181.7	4176.0	5986.9	6642.7
70°	2500.5	2796.7	3076.0	2872.9	2001.3	1129.7	1066.2	1337.0	2107.1	3444.1	3524.4
72.5°	757.4	761.6	1066.2	1112.8	647.3	253.9	224.2	296.2	715.0	1138.1	1197.4
75°	55.0	59.2	143.9	165.0	122.7	63.5	67.7	80.4	152.3	253.9	190.4
77.5°	4.2	4.2	4.2	21.2	38.1	42.3	55.0	63.5	80.4	93.1	84.6
80°	4.2	0.0	4.2	16.9	29.6	42.3	50.8	59.2	63.5	71.9	63.5
82.5°	0.0	0.0	0.0	12.7	29.6	42.3	46.5	63.5	71.9	84.6	71.9
85°	0.0	0.0	0.0	12.7	29.6	46.5	42.3	21.2	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°	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6
2.5°	11533.8	11368.8	10992.2	10801.8	10353.3	10289.9	9849.8	9777.9	9629.8	9549.4	9354.8
5°	10552.2	10353.3	9739.8	9223.6	8622.8	8204.0	7882.4	7590.5	7421.2	7264.7	7336.6
7.5°	9752.5	9172.9	8491.7	7628.5	6934.7	6486.2	5995.4	5593.4	5356.5	5195.7	5233.8
10°	8914.8	8538.2	7590.5	6621.6	5783.8	5466.5	5081.5	4772.6	4438.3	4150.6	4015.2
12.5°	8652.4	8094.0	6905.0	5919.2	5284.6	4975.7	4535.7	4180.3	3752.9	3401.7	3279.0
15°	8699.0	8161.6	6718.9	5665.3	4916.5	4383.3	3858.7	3418.7	2949.0	2703.6	2576.7
17.5°	9456.3	8525.5	6841.6	5398.8	4404.5	3664.1	3016.7	2458.2	2107.1	1853.2	1798.2
20°	10387.2	9312.5	7103.9	5204.2	3985.6	2915.2	2204.4	1722.0	1430.1	1387.8	1375.1
22.5°	11749.6	10598.7	7666.6	5073.0	3473.7	2272.1	1510.5	1252.4	1172.0	1163.5	1167.8
25°	13653.5	12210.7	8280.1	4963.0	3088.6	1751.6	1235.5	1062.0	1036.6	1023.9	1045.1
27.5°	14478.6	13183.9	8605.9	4726.1	2737.5	1578.2	1218.5	1053.5	981.6	960.4	973.1
30°	15498.2	13831.2	9117.9	4319.9	2221.3	1298.9	1138.1	1146.6	1112.8	1007.0	973.1
32.5°	16852.2	14639.3	9376.0	4032.2	1984.4	1074.7	833.5	765.8	854.7	871.6	901.2
35°	17719.5	15460.2	9507.1	3862.9	1861.7	918.1	706.6	643.1	622.0	626.2	643.1
37.5°	19331.6	16568.7	9672.1	3685.2	1768.6	799.7	638.9	579.7	550.0	550.0	567.0
40°	20296.2	17448.7	9896.4	3587.9	1675.5	727.7	579.7	528.9	503.5	503.5	512.0
42.5°	20537.4	17884.5	9820.2	3554.1	1569.7	710.8	528.9	490.8	461.2	457.0	452.7
45°	20969.0	18548.8	9832.9	3516.0	1459.7	647.3	499.3	457.0	414.6	410.4	406.2
47.5°	21442.8	19026.9	9858.3	3367.9	1353.9	541.6	520.4	423.1	372.3	363.9	363.9
50°	21036.7	19407.7	10078.3	3219.8	1218.5	440.0	512.0	397.7	330.0	317.3	321.6
52.5°	21087.4	19856.2	10543.7	3012.5	1049.3	351.2	414.6	376.6	300.4	279.2	283.5
55°	20275.1	19382.3	10607.2	2792.5	820.8	270.8	317.3	330.0	253.9	245.4	245.4
57.5°	17453.0	16412.1	9359.0	2263.6	541.6	224.2	228.5	287.7	220.0	211.6	215.8
60°	14935.5	13175.4	7531.2	1493.6	338.5	177.7	165.0	291.9	194.6	190.4	203.1
62.5°	13615.4	10827.2	5711.9	926.6	232.7	135.4	114.2	236.9	169.2	169.2	186.2
65°	9837.1	7273.1	3321.4	486.6	165.0	105.8	84.6	135.4	139.6	143.9	152.3
67.5°	6092.7	3672.5	1400.5	236.9	110.0	71.9	55.0	84.6	93.1	93.1	101.5
70°	3008.3	1463.9	465.4	135.4	84.6	59.2	38.1	46.5	46.5	42.3	46.5
72.5°	930.8	440.0	118.5	84.6	59.2	38.1	21.2	16.9	8.5	0.0	4.2
75°	105.8	84.6	76.2	59.2	38.1	16.9	4.2	0.0	0.0	0.0	0.0
77.5°	63.5	71.9	71.9	59.2	38.1	12.7	0.0	0.0	0.0	0.0	0.0
80°	50.8	55.0	59.2	55.0	33.8	16.9	0.0	0.0	0.0	0.0	0.0
82.5°	63.5	71.9	80.4	71.9	46.5	21.2	8.5	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	12.7	4.2	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°	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6
2.5°	9274.4	9181.3	9312.5	9117.9	9113.6	9117.9	9062.9	9012.1	9092.5	9308.3	9329.4
5°	7078.5	7277.4	7340.8	7548.1	7433.9	7264.7	7298.5	7184.3	7463.5	7586.2	7488.9
7.5°	5153.4	5140.7	5568.0	5593.4	5648.4	5652.7	5644.2	5419.9	5191.5	5242.2	5394.6
10°	3998.3	3782.5	3989.9	3968.7	4104.1	4066.0	4121.0	3879.9	3960.2	3960.2	4057.6
12.5°	3257.9	3029.4	2991.3	2936.3	2991.3	3012.5	3033.6	2987.1	3122.5	3186.0	3253.7
15°	2487.8	2360.9	2327.1	2221.3	2238.2	2297.4	2348.2	2369.4	2327.1	2424.4	2432.8
17.5°	1806.6	1802.4	1823.6	1819.3	1802.4	1789.7	1785.5	1730.5	1713.6	1722.0	1755.9
20°	1370.9	1404.7	1476.6	1548.6	1586.6	1540.1	1476.6	1383.5	1345.5	1353.9	1358.2
22.5°	1172.0	1222.8	1320.1	1400.5	1438.5	1353.9	1239.7	1159.3	1142.4	1138.1	1133.9
25°	1062.0	1121.2	1193.1	1218.5	1214.3	1163.5	1078.9	1045.1	1036.6	1028.1	990.1
27.5°	1002.8	1023.9	1036.6	1066.2	1078.9	1045.1	1023.9	973.1	964.7	964.7	939.3
30°	968.9	956.2	973.1	952.0	968.9	943.5	947.7	947.7	926.6	935.1	935.1
32.5°	901.2	905.4	905.4	863.1	875.8	846.2	875.8	901.2	905.4	909.7	943.5
35°	660.0	736.2	774.3	774.3	787.0	765.8	761.6	732.0	693.9	655.8	638.9
37.5°	579.7	609.3	660.0	689.7	710.8	693.9	655.8	609.3	588.1	571.2	554.3
40°	516.2	541.6	575.4	609.3	651.6	630.4	571.2	550.0	524.6	524.6	507.7
42.5°	465.4	478.1	499.3	550.0	596.6	554.3	512.0	495.0	482.3	478.1	473.9
45°	418.9	423.1	444.3	486.6	541.6	499.3	457.0	435.8	440.0	444.3	440.0
47.5°	376.6	385.0	397.7	448.5	482.3	461.2	414.6	401.9	401.9	401.9	406.2
50°	325.8	346.9	372.3	414.6	440.0	427.3	389.3	372.3	363.9	363.9	368.1
52.5°	291.9	308.9	342.7	393.5	427.3	406.2	368.1	342.7	325.8	321.6	330.0
55°	253.9	283.5	338.5	376.6	423.1	401.9	359.6	330.0	300.4	296.2	296.2
57.5°	228.5	275.0	325.8	372.3	410.4	393.5	359.6	321.6	283.5	279.2	279.2
60°	215.8	266.6	317.3	359.6	410.4	385.0	355.4	313.1	270.8	270.8	266.6
62.5°	203.1	249.6	300.4	342.7	393.5	372.3	342.7	300.4	258.1	258.1	249.6
65°	169.2	215.8	249.6	287.7	342.7	321.6	291.9	262.3	228.5	220.0	224.2
67.5°	118.5	148.1	181.9	220.0	253.9	245.4	232.7	211.6	181.9	177.7	173.5
70°	59.2	80.4	110.0	148.1	177.7	169.2	160.8	143.9	126.9	122.7	122.7
72.5°	8.5	25.4	46.5	67.7	93.1	97.3	93.1	88.9	84.6	80.4	84.6
75°	0.0	0.0	0.0	16.9	38.1	46.5	55.0	63.5	63.5	55.0	67.7
77.5°	0.0	0.0	0.0	0.0	4.2	21.2	42.3	55.0	67.7	59.2	80.4
80°	0.0	0.0	0.0	0.0	4.2	25.4	42.3	59.2	67.7	59.2	84.6
82.5°	0.0	0.0	0.0	0.0	4.2	29.6	42.3	55.0	63.5	59.2	76.2
85°	0.0	0.0	0.0	0.0	12.7	25.4	16.9	8.5	4.2	4.2	12.7
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: P532317

CATALOG NUMBER: GALN-SA7C-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6	10907.6
2.5°	9447.9	9748.3	10069.8	10192.5	10573.3	10861.0	11055.7	11474.5	11538.0	11542.2
5°	7590.5	7742.8	8292.8	8550.9	9117.9	9557.9	10027.5	10704.5	11157.2	11191.1
7.5°	5394.6	5817.7	6050.4	6723.1	7421.2	8110.9	8809.0	9596.0	10120.6	10133.3
10°	4341.0	4616.0	5030.7	5534.2	6122.3	6824.6	7755.5	8669.4	9202.5	9333.6
12.5°	3494.8	3977.2	4451.0	4971.5	5419.9	5948.8	6951.6	8170.1	8610.1	8872.5
15°	2690.9	3131.0	3689.5	4298.7	4806.4	5513.0	6655.4	8047.4	8787.8	8876.7
17.5°	1984.4	2377.8	2894.0	3469.4	4231.0	5233.8	6706.2	8669.4	9367.5	9515.6
20°	1425.9	1654.3	2060.5	2729.0	3697.9	4908.0	6756.9	9299.8	10361.8	10615.6
22.5°	1129.7	1222.8	1489.3	2081.7	3101.3	4565.3	7116.6	10505.6	11728.4	12096.5
25°	981.6	1032.4	1159.3	1641.6	2724.8	4531.4	7692.0	11952.6	13547.7	13814.3
27.5°	947.7	956.2	1066.2	1506.2	2521.7	4307.2	7912.0	12980.8	14681.7	14952.4
30°	998.5	1133.9	1142.4	1273.5	2145.1	3862.9	8026.3	13975.1	15642.1	15841.0
32.5°	863.1	820.8	850.4	985.8	1887.0	3604.8	8242.0	14842.4	16737.9	16877.6
35°	600.8	630.4	698.1	854.7	1650.1	3334.0	8297.0	15798.6	17778.8	17922.6
37.5°	554.3	571.2	626.2	727.7	1451.2	3181.7	8220.9	16496.8	18857.7	19056.5
40°	516.2	537.3	567.0	660.0	1303.2	3012.5	8115.1	17127.2	19517.7	20008.5
42.5°	486.6	503.5	528.9	630.4	1176.2	2843.2	7967.0	18015.7	20110.1	20537.4
45°	452.7	478.1	507.7	613.5	1104.3	2729.0	7857.0	17960.7	20452.8	20681.3
47.5°	418.9	461.2	495.0	571.2	1083.1	2674.0	7903.6	17753.4	20173.5	20017.0
50°	385.0	440.0	499.3	473.9	1032.4	2564.0	7958.6	18036.9	19509.3	19479.6
52.5°	355.4	418.9	465.4	389.3	918.1	2458.2	8491.7	18409.2	19978.9	19585.4
55°	313.1	376.6	372.3	313.1	744.7	2377.8	8910.5	18417.7	19661.6	19809.7
57.5°	283.5	334.3	291.9	262.3	550.0	1988.6	8229.3	15443.2	16831.0	17093.3
60°	262.3	325.8	220.0	207.3	359.6	1434.3	7184.3	11961.1	13378.5	13873.5
62.5°	241.2	308.9	173.5	169.2	249.6	1019.7	5906.5	10010.6	11529.5	12202.3
65°	211.6	220.0	139.6	131.2	177.7	550.0	3596.4	6892.3	8618.6	8868.2
67.5°	173.5	169.2	114.2	105.8	118.5	266.6	1586.6	3452.5	4996.8	5415.7
70°	139.6	139.6	97.3	84.6	84.6	122.7	414.6	1375.1	2259.4	2500.5
72.5°	101.5	105.8	76.2	67.7	63.5	59.2	67.7	275.0	592.3	757.4
75°	88.9	93.1	76.2	59.2	46.5	38.1	29.6	25.4	33.8	55.0
77.5°	97.3	97.3	80.4	55.0	42.3	29.6	16.9	8.5	8.5	4.2
80°	122.7	126.9	105.8	71.9	50.8	33.8	21.2	8.5	4.2	4.2
82.5°	131.2	143.9	118.5	88.9	63.5	38.1	21.2	4.2	0.0	0.0
85°	33.8	55.0	93.1	80.4	63.5	38.1	21.2	4.2	0.0	0.0
87.5°	0.0	4.2	12.7	12.7	16.9	16.9	12.7	4.2	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)