

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: P456409

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33542 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

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

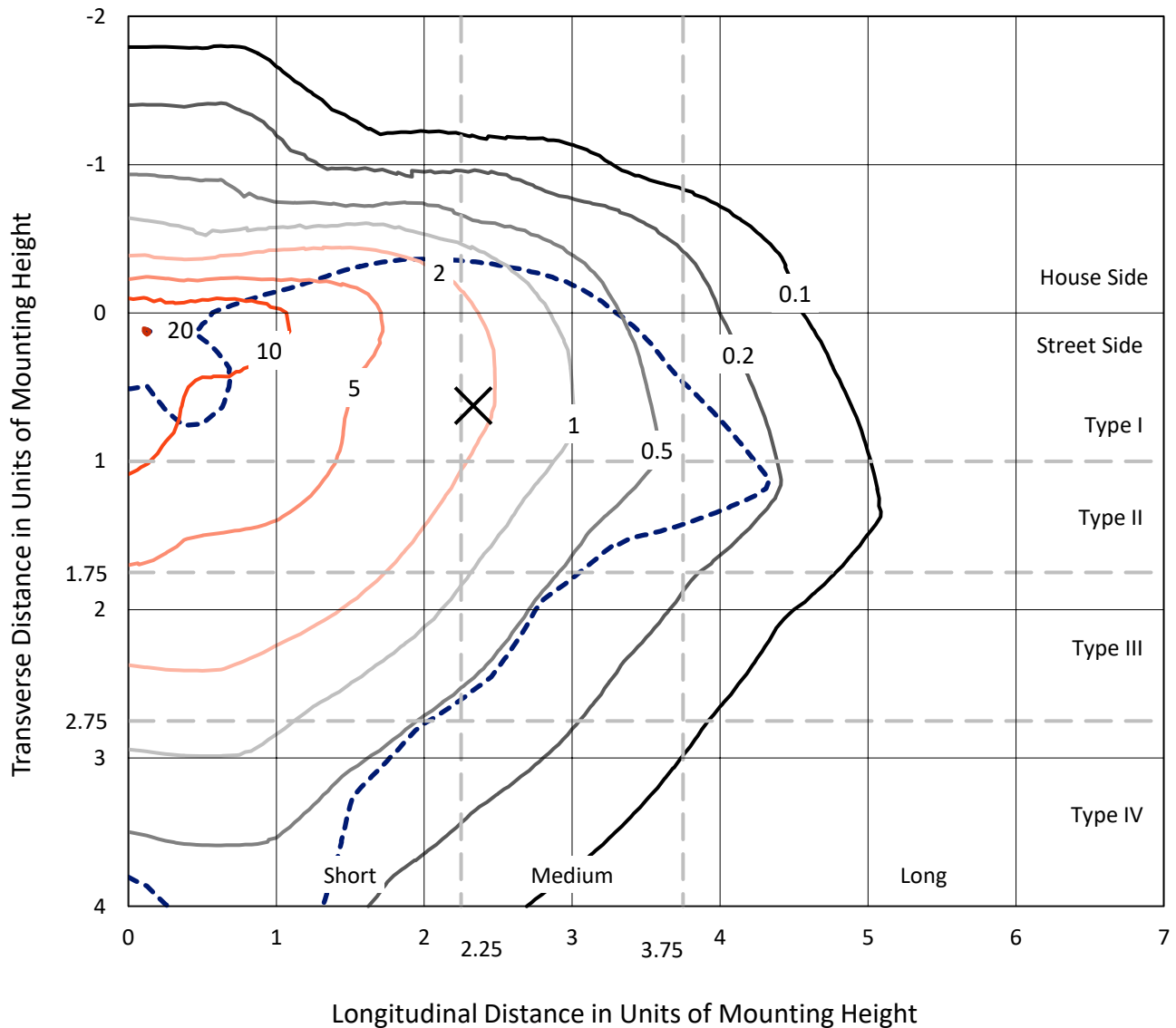


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Iso-Footcandle Lines of Horizontal Illumination

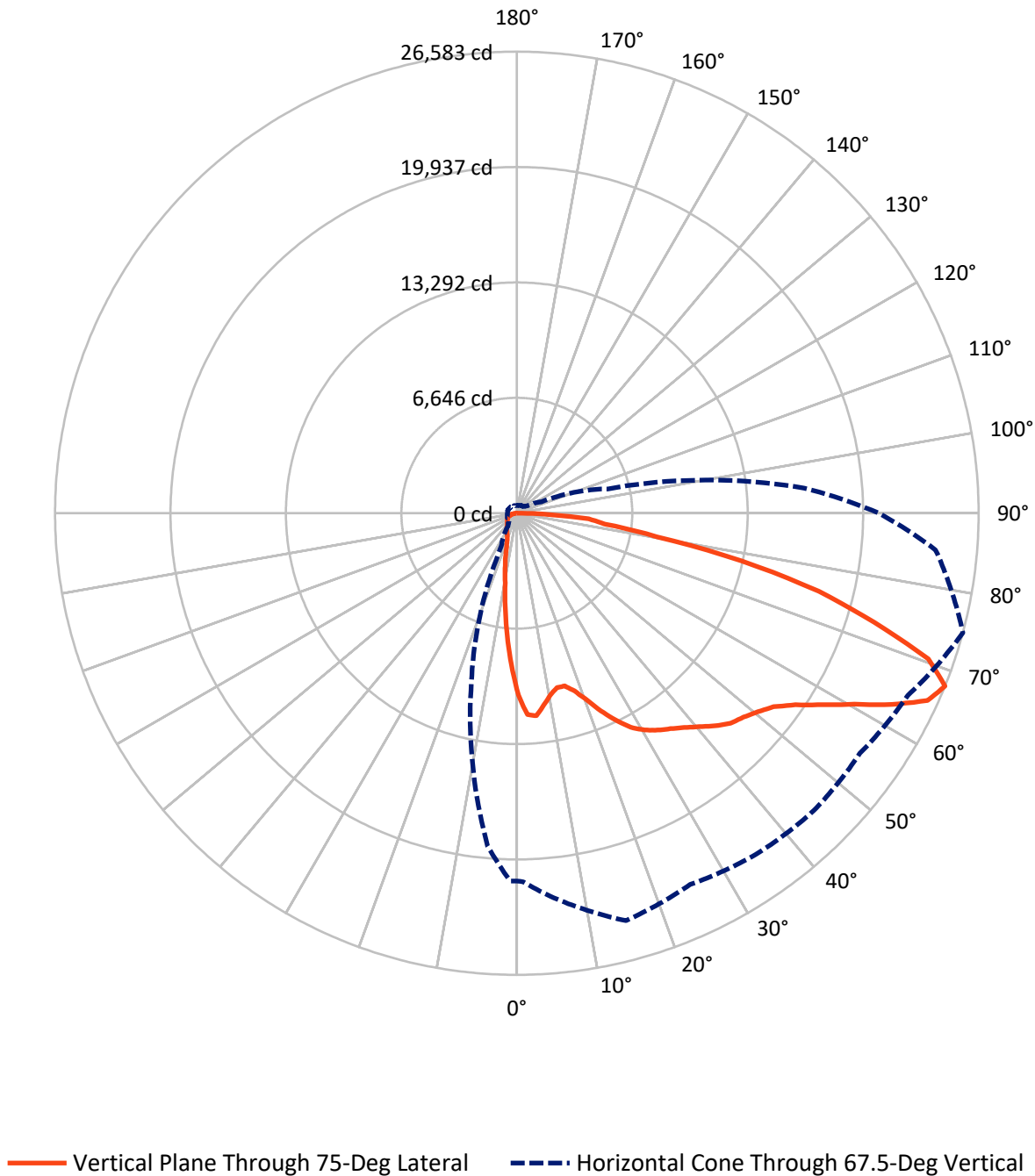
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5669.3	0.0	5669.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	27872.7	0.0	27872.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	33542.0	0.0	33542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.8	2.4
10°-20°	1657.6	4.9
20°-30°	2385.4	7.1
30°-40°	3435.6	10.2
40°-50°	4826.1	14.4
50°-60°	6730.7	20.1
60°-70°	8002.3	23.9
70°-80°	4712.9	14.1
80°-90°	996.6	3.0
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°	33542.0	100.0
0°-180°	33542.0	100.0

Coefficient of Utilization



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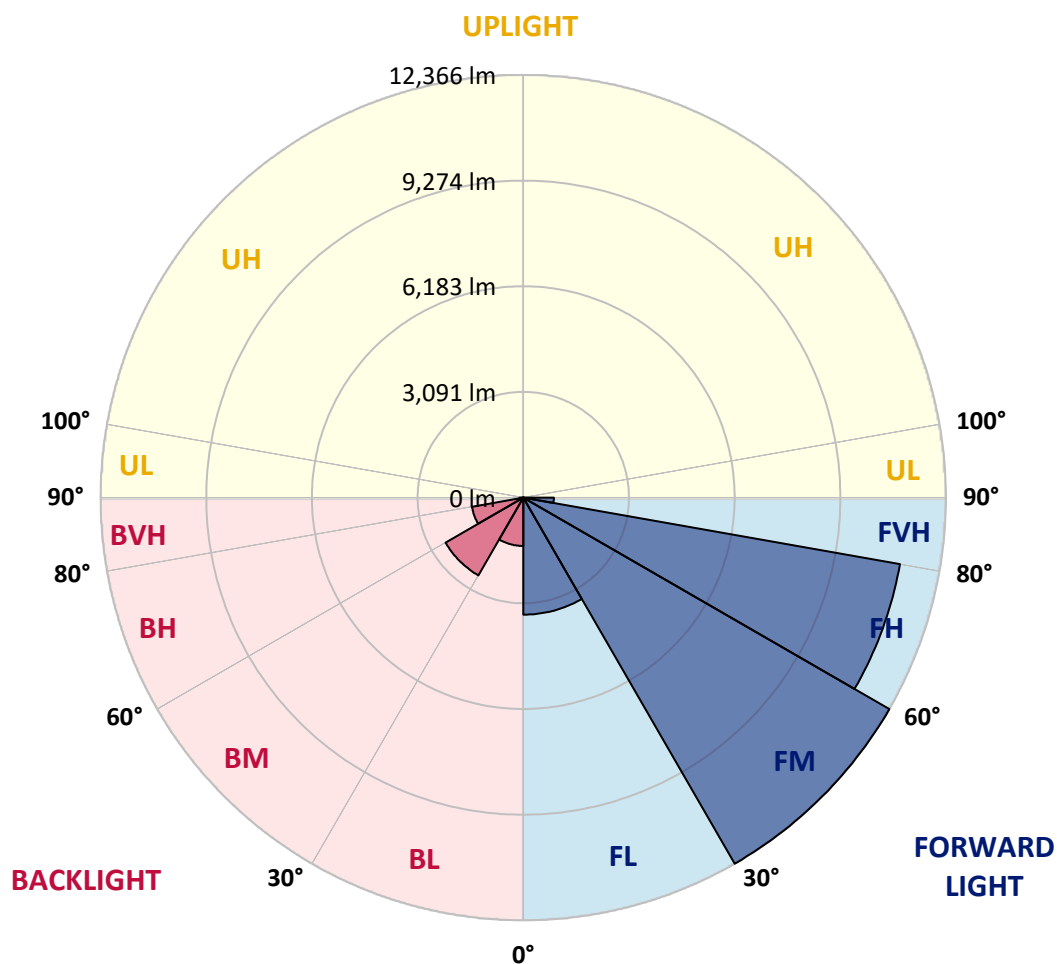
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3423.7	10.2			
FM	(30°-60°)	12365.7	36.9			
FH	(60°-80°)	11189.7	33.4			G4/12000
FVH	(80°-90°)	893.5	2.7			G5
BL	(0°-30°)	1414.1	4.2	B3/2500		
BM	(30°-60°)	2626.6	7.8	B3/5000		
BH	(60°-80°)	1525.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	103.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3
2.5°	11298.8	11313.9	11410.7	11692.4	11886.0	11957.0	12006.5	11914.0	11823.6	11604.2	11273.0
5°	11264.4	11352.6	11604.2	12236.6	12735.6	12950.7	13015.3	12737.8	12279.6	11716.1	11038.6
7.5°	10606.2	10724.5	11111.7	12172.1	13051.8	13555.1	13488.5	12987.3	12161.3	11156.9	10210.4
10°	9825.4	9956.6	10423.4	11705.3	12838.9	13531.5	13531.5	12920.6	11823.6	10629.9	9539.4
12.5°	9206.0	9343.6	9877.1	11225.7	12395.8	13051.8	13161.5	12636.7	11580.6	10296.5	9098.4
15°	9001.6	9135.0	9709.3	10935.3	11926.9	12327.0	12363.5	12191.5	11462.3	10320.1	9079.1
17.5°	9255.4	9427.5	10008.3	11021.3	11496.7	11520.4	11548.3	11683.8	11475.2	10752.5	9470.5
20°	9988.9	10173.9	10780.4	11298.8	11120.3	10875.1	10890.1	11238.6	11627.9	11466.6	10406.2
22.5°	11047.2	11208.5	11830.1	11787.1	10961.1	10455.7	10350.3	10836.4	11853.8	12357.1	11402.1
25°	12189.3	12378.6	13092.7	12511.9	11006.3	10206.1	10139.5	10599.8	12088.2	13189.5	12552.8
27.5°	13497.1	13682.0	14245.6	13243.3	11242.9	10186.8	10107.2	10578.3	12299.0	13959.5	13651.9
30°	14469.3	14639.2	15022.1	13858.4	11533.3	10315.8	10216.9	10748.2	12479.7	14486.5	14723.1
32.5°	15232.9	15409.2	15617.9	14241.3	11916.1	10550.3	10367.5	11057.9	12716.3	14888.7	15516.8
35°	16028.7	16237.3	16222.3	14581.1	12273.2	10821.3	10642.8	11505.3	13088.4	15239.3	16523.4
37.5°	17037.5	17121.4	17013.8	14886.6	12701.2	11309.6	11210.6	12169.9	13617.5	15663.0	17700.0
40°	18061.3	18229.1	17676.3	15256.5	13221.7	12228.0	12217.3	13152.9	14245.6	16159.9	18840.0
42.5°	18938.9	19080.9	18295.8	15579.2	13852.0	13348.7	13430.4	14471.4	15069.4	16736.4	19756.3
45°	19599.2	19726.1	18867.9	15891.0	14682.2	14643.5	15125.3	15884.6	16108.3	17254.7	20294.0
47.5°	20160.6	20283.2	19265.8	16364.2	15708.2	16190.0	17028.9	17358.0	16996.6	17551.6	20896.3
50°	20633.8	20670.4	19539.0	16927.8	16981.6	18085.0	18898.0	19111.0	17874.2	17977.4	21418.9
52.5°	21126.4	21079.1	20010.1	17637.6	18358.2	19883.2	20474.7	20696.2	18715.2	18502.3	22180.4
55°	22229.8	22275.0	21066.2	18532.4	19749.8	21649.1	22427.7	22214.8	19646.6	19468.0	23148.3
57.5°	23563.4	23524.7	22552.5	19932.6	21167.3	23292.4	23873.1	23531.1	20889.8	20795.2	24129.1
60°	24081.8	24133.4	23795.7	21438.3	22565.4	24731.4	25325.0	24793.7	22380.4	22337.4	24869.0
62.5°	23561.3	23851.6	24079.6	22778.3	23757.0	25789.6	26379.0	25772.4	23935.5	24247.4	25387.4
65°	22524.5	22586.9	23363.4	23914.0	24331.3	25963.8	26271.4	25948.8	25234.7	25987.5	25363.7
67.5°	21178.0	21231.8	22141.6	24286.1	23591.4	23985.0	24200.1	24105.4	24832.4	26583.3	24195.8
70°	19896.1	19853.1	20814.5	23337.6	20537.0	19939.1	20117.6	19820.8	21427.5	25127.1	21905.0
72.5°	17401.0	17555.9	18588.3	20700.5	16261.0	15288.8	15678.1	14910.2	16480.4	21520.0	17779.6
75°	13630.4	13667.0	15389.9	17373.0	12266.7	10733.1	11260.1	10939.6	12623.8	17951.6	12277.5
77.5°	9438.3	9356.5	11208.5	13269.1	8747.8	7857.3	7865.9	7713.2	8814.5	13217.4	8341.3
80°	5994.6	5869.9	7016.3	8197.2	6011.8	6431.3	6220.5	6214.0	5738.7	8154.2	5043.9
82.5°	3239.3	3377.0	4433.1	5138.6	4312.6	4970.8	4555.7	4422.3	3938.3	5104.1	3226.4
85°	1475.5	1604.6	2363.9	3495.3	3275.9	3312.4	2213.3	2611.2	3258.7	4144.8	1722.9
87.5°	144.1	185.0	488.3	1649.8	1118.5	881.9	329.1	634.5	819.5	1473.4	137.7
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°	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3
2.5°	11137.5	11025.6	10644.9	10330.9	9997.5	9743.7	9412.5	9190.9	9038.2	8808.0	8780.1
5°	10625.6	10352.4	9689.9	9014.5	8431.6	7992.8	7547.6	7138.9	6898.0	6822.7	6725.9
7.5°	9763.1	9302.8	8451.0	7676.7	7007.7	6353.8	5850.5	5493.5	5254.7	5114.9	4947.1
10°	9053.3	8519.8	7483.1	6534.5	5983.9	5577.4	5134.3	4751.4	4456.7	4205.1	4067.4
12.5°	8575.7	7973.5	6807.7	6037.7	5611.8	5179.4	4661.1	4230.9	3796.4	3510.3	3387.7
15°	8431.6	7795.0	6599.0	5790.3	5179.4	4613.7	4033.0	3471.6	3041.4	2770.4	2680.1
17.5°	8784.4	8014.4	6596.9	5461.2	4671.8	3996.4	3252.2	2725.2	2284.3	2082.1	2017.6
20°	9442.6	8435.9	6616.3	5136.4	4121.2	3170.5	2366.0	1933.7	1722.9	1636.9	1604.6
22.5°	10361.0	9079.1	6674.3	4815.9	3518.9	2434.8	1772.4	1553.0	1477.7	1462.6	1456.2
25°	11492.4	9874.9	6870.1	4527.7	3011.3	1858.4	1482.0	1383.0	1340.0	1325.0	1322.8
27.5°	12533.4	10903.0	7106.7	4280.3	2520.9	1602.4	1340.0	1256.1	1213.1	1211.0	1215.3
30°	13473.4	11763.4	7304.5	4002.9	2148.8	1423.9	1247.5	1163.7	1122.8	1120.6	1133.5
32.5°	14286.5	12471.1	7450.8	3729.7	1942.3	1314.2	1163.7	1073.3	1038.9	1032.4	1038.9
35°	15155.4	13176.6	7384.1	3516.8	1824.0	1223.9	1101.3	1013.1	972.2	952.9	952.9
37.5°	16147.0	13903.6	7270.1	3340.4	1770.2	1148.6	1047.5	961.5	920.6	901.2	899.1
40°	17228.9	14630.6	7113.1	3183.4	1716.4	1103.4	1010.9	920.6	871.1	851.8	847.5
42.5°	18183.9	15252.2	6984.1	3080.1	1628.3	1112.0	978.7	890.5	828.1	802.3	800.1
45°	19014.2	15878.1	6960.4	3019.9	1555.1	1099.1	970.1	866.8	793.7	765.7	761.4
47.5°	19663.8	16529.9	7095.9	2985.5	1475.5	1030.3	1026.0	851.8	763.6	733.5	729.2
50°	20455.3	17454.8	7405.6	2914.5	1402.4	965.8	1084.1	849.6	739.9	701.2	690.4
52.5°	21509.3	18659.3	7825.1	2787.6	1297.0	905.5	1034.6	849.6	712.0	673.2	660.3
55°	23103.1	20195.1	8235.9	2609.1	1148.6	826.0	933.5	823.8	671.1	636.7	628.1
57.5°	24159.2	21317.8	8498.3	2361.7	963.6	767.9	804.4	782.9	630.2	593.7	593.7
60°	24213.0	21619.0	8373.6	2049.8	847.5	714.1	699.1	789.4	593.7	554.9	550.6
62.5°	23593.5	20881.2	7724.0	1770.2	785.1	656.0	632.4	692.6	557.1	518.4	511.9
65°	22625.6	18999.1	6596.9	1636.9	750.7	604.4	570.0	567.8	518.4	481.8	473.2
67.5°	20846.8	16603.0	5420.3	1559.4	733.5	546.3	514.1	503.3	473.2	443.1	438.8
70°	18224.8	13905.7	4347.0	1527.2	724.9	486.1	460.3	447.4	421.6	397.9	395.8
72.5°	14178.9	11279.5	3587.7	1505.6	720.6	430.2	402.2	385.0	370.0	348.5	348.5
75°	10184.6	8298.3	2738.1	1357.2	666.8	370.0	339.8	329.1	307.6	290.4	294.7
77.5°	6420.5	5588.1	1802.5	998.0	516.2	296.8	271.0	264.6	247.4	223.7	238.8
80°	4336.3	3929.7	1051.8	628.1	324.8	217.2	208.6	206.5	187.1	161.3	163.5
82.5°	2951.1	2895.1	546.3	357.1	187.1	126.9	122.6	126.9	105.4	86.0	86.0
85°	1152.9	1574.5	258.1	139.8	60.2	19.4	28.0	30.1	17.2	8.6	10.8
87.5°	21.5	161.3	6.5	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°	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3
2.5°	8737.1	8717.7	8750.0	8612.3	8640.3	8691.9	8717.7	8732.8	8945.7	8896.2	9031.7
5°	6816.3	6796.9	6921.7	6938.9	7003.4	6990.5	7052.9	7067.9	7145.4	7173.3	7362.6
7.5°	4957.9	5041.8	5183.7	5256.9	5366.6	5401.0	5368.7	5448.3	5287.0	5403.1	5437.5
10°	3983.5	3882.4	3822.2	3990.0	4011.5	4170.6	4106.1	4054.5	4149.1	4153.4	4243.8
12.5°	3316.7	3099.5	2955.4	3002.7	3054.3	3123.1	3133.9	3237.1	3306.0	3370.5	3424.3
15°	2600.5	2525.2	2394.0	2329.5	2402.6	2430.5	2497.2	2583.3	2656.4	2675.8	2748.9
17.5°	1996.1	2009.0	1987.5	1948.7	1993.9	2015.4	2019.7	2021.9	2041.2	2028.3	2135.9
20°	1606.7	1651.9	1705.7	1714.3	1729.3	1740.1	1720.7	1647.6	1649.8	1694.9	1729.3
22.5°	1454.0	1462.6	1522.9	1542.2	1589.5	1570.2	1514.3	1479.8	1475.5	1486.3	1503.5
25°	1333.6	1346.5	1389.5	1419.6	1456.2	1421.8	1380.9	1348.6	1344.3	1355.1	1372.3
27.5°	1226.0	1245.4	1284.1	1314.2	1348.6	1316.4	1277.7	1249.7	1247.5	1245.4	1256.1
30°	1140.0	1161.5	1189.5	1223.9	1247.5	1219.6	1183.0	1168.0	1165.8	1161.5	1165.8
32.5°	1054.0	1088.4	1116.3	1133.5	1157.2	1135.7	1107.7	1099.1	1084.1	1071.2	1064.7
35°	957.2	993.7	1036.7	1058.3	1081.9	1060.4	1041.0	1004.5	978.7	976.5	980.8
37.5°	901.2	916.3	950.7	987.3	1010.9	1000.2	963.6	927.0	920.6	920.6	924.9
40°	851.8	858.2	873.3	920.6	963.6	931.4	886.2	875.4	875.4	873.3	875.4
42.5°	802.3	808.7	808.7	845.3	914.1	862.5	828.1	828.1	828.1	830.3	836.7
45°	757.1	759.3	757.1	782.9	847.5	804.4	780.8	787.2	791.5	795.8	800.1
47.5°	718.4	720.6	718.4	739.9	772.2	755.0	742.1	750.7	759.3	765.7	770.0
50°	684.0	681.8	686.1	699.1	714.1	718.4	709.8	722.7	727.0	735.6	746.4
52.5°	653.9	651.7	656.0	662.5	684.0	684.0	684.0	694.7	703.4	712.0	727.0
55°	619.5	621.6	628.1	636.7	664.6	660.3	662.5	671.1	679.7	692.6	701.2
57.5°	587.2	591.5	600.1	613.0	641.0	638.8	641.0	645.3	656.0	662.5	671.1
60°	550.6	559.2	570.0	578.6	606.6	604.4	615.2	623.8	630.2	630.2	634.5
62.5°	514.1	527.0	537.7	544.2	574.3	576.4	591.5	598.0	602.3	598.0	604.4
65°	477.5	496.9	501.2	509.8	539.9	542.0	559.2	574.3	570.0	565.7	576.4
67.5°	440.9	464.6	462.4	473.2	503.3	507.6	522.7	548.5	539.9	535.6	544.2
70°	400.1	417.3	419.4	425.9	466.8	460.3	484.0	507.6	501.2	503.3	503.3
72.5°	354.9	370.0	370.0	382.9	425.9	415.1	434.5	460.3	460.3	458.1	458.1
75°	301.1	309.7	318.3	337.7	382.9	370.0	382.9	406.5	410.8	406.5	406.5
77.5°	243.1	256.0	260.3	286.1	318.3	316.2	329.1	339.8	348.5	344.1	344.1
80°	172.1	185.0	202.2	230.1	249.5	256.0	262.4	271.0	275.3	275.3	279.6
82.5°	96.8	116.2	131.2	159.2	167.8	200.0	197.9	204.3	197.9	174.2	193.6
85°	21.5	40.9	58.1	73.1	83.9	116.2	122.6	137.7	114.0	105.4	105.4
87.5°	0.0	0.0	0.0	0.0	0.0	17.2	34.4	47.3	40.9	34.4	34.4
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: P456409

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3	10479.3
2.5°	9145.7	9332.9	9558.7	9948.0	10221.2	10515.9	10812.7	11128.9	11212.8	11298.8
5°	7414.2	7782.1	7982.1	8504.8	9053.3	9750.2	10320.1	10943.9	11204.2	11264.4
7.5°	5616.1	5865.6	6390.4	6919.5	7599.2	8330.5	9203.8	10176.0	10479.3	10606.2
10°	4452.4	4792.3	5252.6	5820.4	6416.2	7203.5	8188.6	9324.3	9754.5	9825.4
12.5°	3789.9	4168.5	4669.7	5269.8	5833.3	6427.0	7420.7	8593.0	9053.3	9206.0
15°	3030.7	3488.8	4067.4	4699.8	5312.8	5962.4	6969.0	8291.8	8823.1	9001.6
17.5°	2381.1	2751.0	3377.0	4063.1	4790.1	5611.8	6874.4	8435.9	9089.8	9255.4
20°	1821.8	2086.4	2613.4	3338.2	4190.0	5265.5	6898.0	8980.1	9763.1	9988.9
22.5°	1574.5	1710.0	2030.5	2720.9	3673.8	4964.3	6994.8	9726.5	10670.7	11047.2
25°	1426.1	1497.0	1677.7	2129.4	3181.2	4671.8	7216.4	10731.0	11939.8	12189.3
27.5°	1299.2	1350.8	1462.6	1787.4	2733.8	4400.8	7474.5	11845.2	13125.0	13497.1
30°	1178.7	1247.5	1352.9	1587.4	2447.8	4153.4	7799.3	12748.5	14123.0	14469.3
32.5°	1086.2	1155.0	1251.8	1447.6	2204.7	3893.2	7992.8	13542.2	14938.2	15232.9
35°	1010.9	1069.0	1170.1	1335.7	2019.7	3695.3	7954.1	14172.5	15727.6	16028.7
37.5°	957.2	1006.6	1107.7	1230.3	1879.9	3488.8	7934.8	15004.9	16689.0	17037.5
40°	907.7	959.3	1051.8	1161.5	1740.1	3245.7	7945.5	15830.8	17712.9	18061.3
42.5°	869.0	927.0	1002.3	1142.1	1596.0	3050.0	7945.5	16549.2	18603.4	18938.9
45°	836.7	899.1	972.2	1140.0	1482.0	2901.6	7891.7	17166.5	19313.2	19599.2
47.5°	808.7	877.6	983.0	1101.3	1454.0	2794.1	7844.4	17661.3	19891.8	20160.6
50°	789.4	871.1	1045.4	1056.1	1462.6	2761.8	8072.4	18285.0	20401.5	20633.8
52.5°	774.3	873.3	1043.2	989.4	1447.6	2783.3	8547.8	19259.4	21109.2	21126.4
55°	744.2	871.1	989.4	914.1	1385.2	2819.9	9158.6	20674.7	22216.9	22229.8
57.5°	714.1	847.5	918.4	849.6	1258.3	2819.9	9894.3	22014.7	23552.6	23563.4
60°	684.0	881.9	806.6	793.7	1092.7	2768.2	10670.7	22604.1	23972.1	24081.8
62.5°	653.9	888.3	720.6	744.2	972.2	2643.5	11249.3	21952.4	23404.2	23561.3
65°	619.5	716.3	664.6	692.6	909.8	2434.8	11066.5	20758.6	22337.4	22524.5
67.5°	578.6	606.6	604.4	638.8	888.3	2127.3	10102.9	19248.6	21188.8	21178.0
70°	529.1	544.2	550.6	587.2	847.5	1888.5	8418.7	17289.1	19655.2	19896.1
72.5°	477.5	490.4	496.9	529.1	806.6	1753.0	6534.5	14589.7	17024.6	17401.0
75°	421.6	430.2	438.8	466.8	763.6	1553.0	4654.6	11137.5	13038.9	13630.4
77.5°	363.5	363.5	374.3	402.2	643.1	1282.0	3123.1	7812.2	8833.9	9438.3
80°	294.7	296.8	292.5	322.6	473.2	877.6	1774.5	5218.1	5878.5	5994.6
82.5°	225.8	219.4	221.5	236.6	352.8	598.0	946.4	3241.4	3303.8	3239.3
85°	142.0	142.0	137.7	154.9	225.8	311.9	516.2	1985.3	1550.8	1475.5
87.5°	58.1	47.3	53.8	62.4	107.5	126.9	202.2	408.7	157.0	144.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)