

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: P527872

Luminaire Tested: **GALN-SA2D-830-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9207 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 125
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

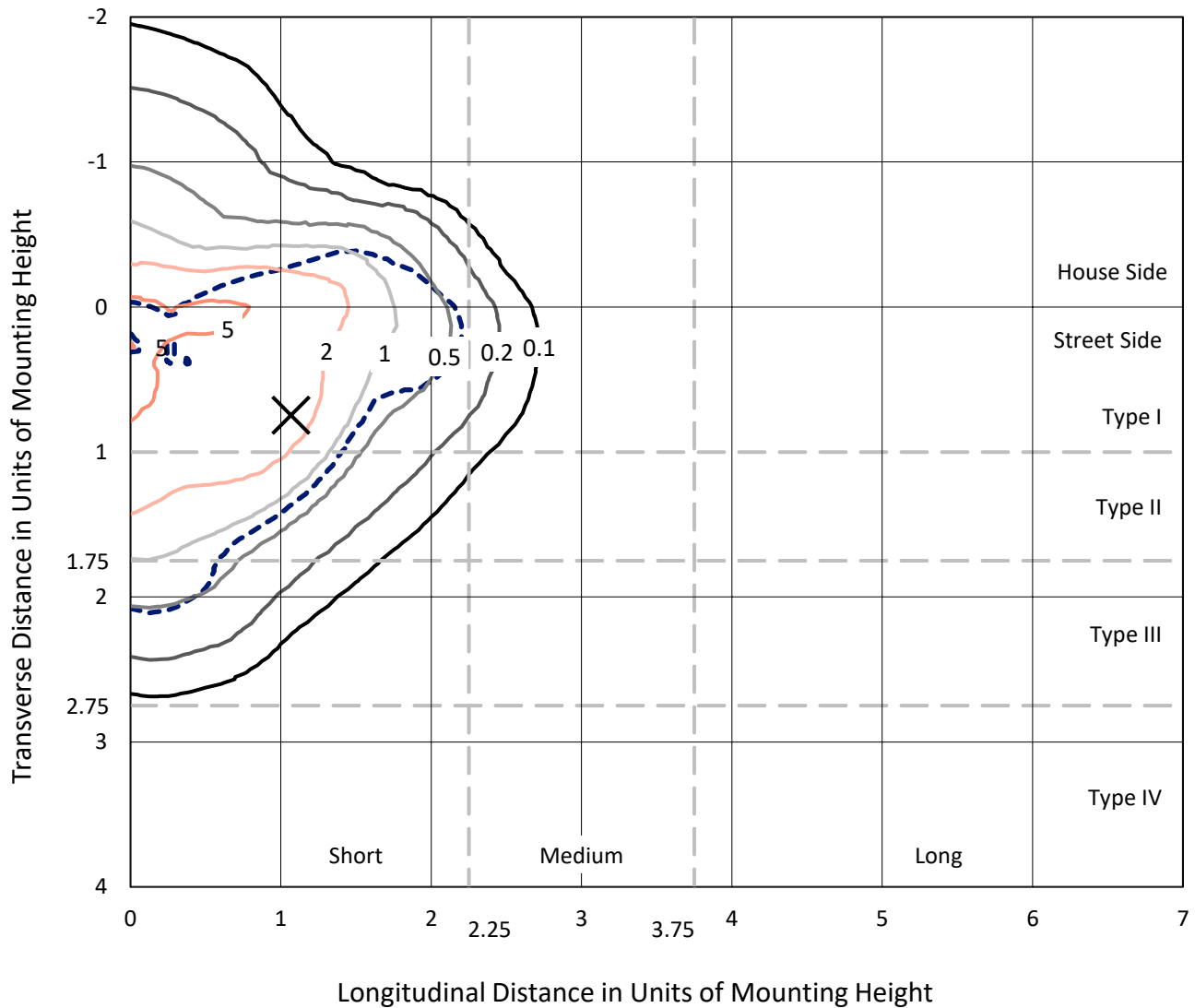


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

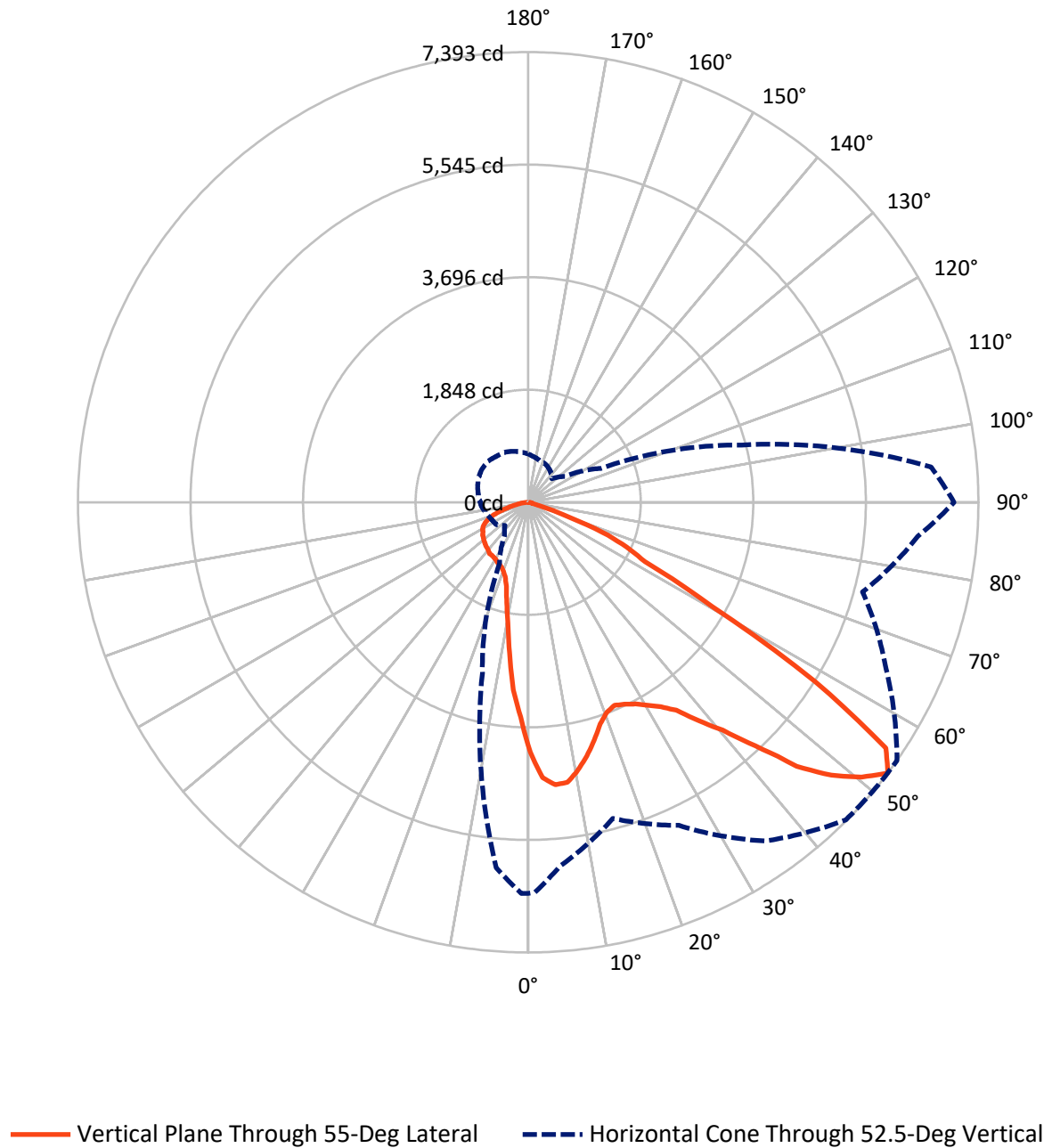


Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2808.6	0.0	2808.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	6398.4	0.0	6398.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	9207.0	0.0	9207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.8	3.4
10°-20°	676.5	7.3
20°-30°	1025.8	11.1
30°-40°	1482.2	16.1
40°-50°	1980.6	21.5
50°-60°	2210.8	24.0
60°-70°	1212.7	13.2
70°-80°	262.2	2.8
80°-90°	42.4	0.5
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°	9207.0	100.0
0°-180°	9207.0	100.0

Coefficient of Utilization



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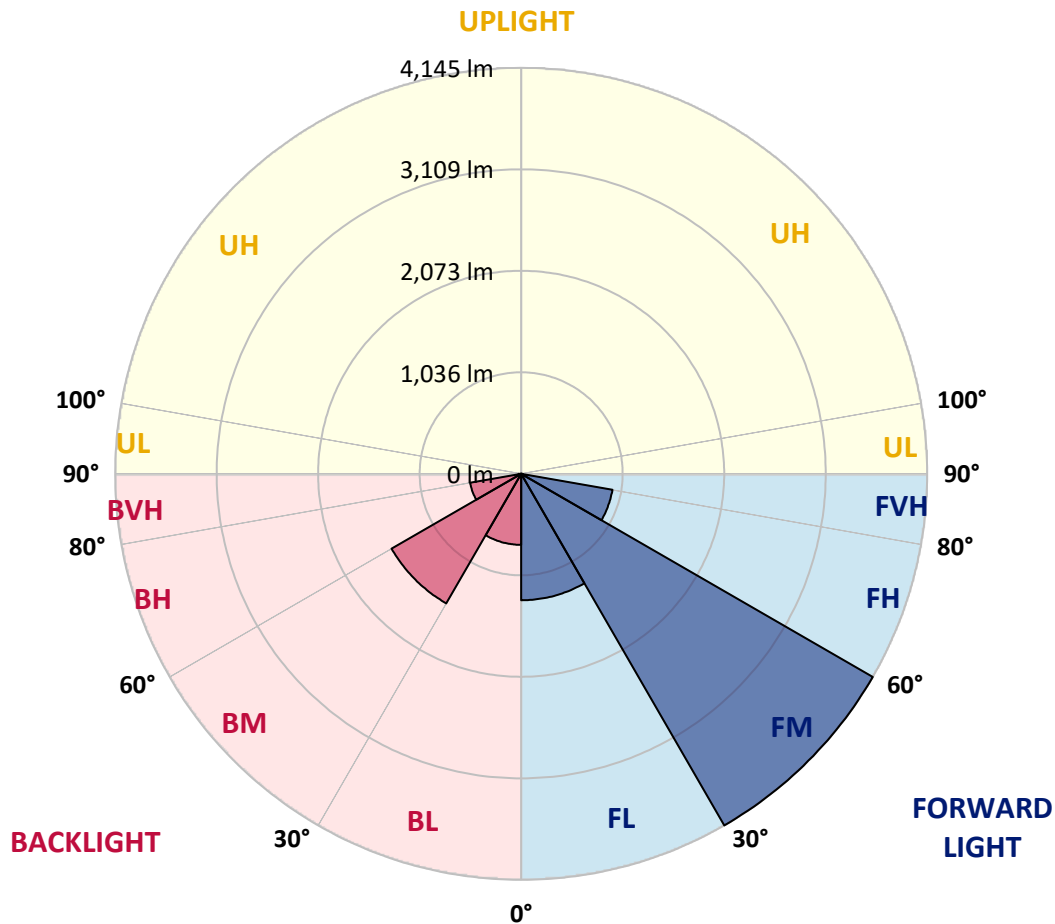
CATALOG NUMBER: GALN-SA2D-830-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1291.0	14.0			
FM	(30°-60°)	4145.4	45.0			
FH	(60°-80°)	946.3	10.3			G1/1800
FVH	(80°-90°)	15.7	0.2			G1/100
BL	(0°-30°)	725.1	7.9	B2/1000		
BM	(30°-60°)	1528.1	16.6	B2/2500		
BH	(60°-80°)	528.6	5.7	B2/1000		G2/1000
BVH	(80°-90°)	26.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0
2.5°	4310.0	4285.8	4307.3	4409.5	4468.7	4509.0	4534.5	4530.5	4433.7	4339.6	4339.6
5°	4183.7	4152.7	4197.1	4428.3	4660.9	4681.1	4714.7	4659.6	4517.1	4345.0	4129.9
7.5°	3818.0	3840.8	3914.8	4218.6	4521.1	4673.0	4713.3	4643.4	4412.2	4090.9	3775.0
10°	3502.1	3555.8	3726.6	4054.6	4332.9	4530.5	4574.9	4476.7	4293.9	3900.0	3617.7
12.5°	3393.2	3359.6	3549.1	3877.1	4143.3	4249.5	4269.7	4276.4	4152.7	3803.2	3459.1
15°	3379.7	3401.2	3549.1	3797.8	3961.8	3967.2	4000.8	4053.3	4069.4	3869.1	3533.0
17.5°	3573.3	3547.8	3699.7	3897.3	3819.3	3741.4	3749.4	3824.7	3957.8	3925.5	3765.6
20°	3859.7	3917.5	4037.1	4017.0	3807.2	3609.6	3611.0	3682.2	3944.4	4159.5	4089.6
22.5°	4335.6	4392.0	4480.8	4237.4	3807.2	3570.6	3524.9	3621.7	4030.4	4437.7	4455.2
25°	4769.8	4873.3	4897.5	4611.2	3998.1	3606.9	3577.4	3672.8	4116.4	4709.3	4874.7
27.5°	5165.0	5202.7	5308.9	4851.8	4104.3	3631.1	3628.4	3750.8	4225.3	4845.1	5249.7
30°	5476.9	5472.9	5533.4	5003.7	4273.7	3766.9	3636.5	3867.7	4367.8	5069.6	5596.6
32.5°	5689.4	5735.1	5862.8	5214.8	4345.0	3896.0	3793.8	4004.9	4541.3	5175.8	5841.3
35°	6063.1	6142.4	5981.1	5331.8	4570.8	4023.7	3904.0	4191.7	4627.3	5291.4	6141.1
37.5°	6415.3	6354.8	6190.8	5394.9	4717.4	4260.3	4148.7	4553.4	4894.8	5542.8	6340.0
40°	6641.2	6639.8	6348.1	5446.0	4820.9	4621.9	4615.2	4920.4	5222.9	5701.5	6563.2
42.5°	6739.3	6833.4	6412.6	5440.6	5038.7	5060.2	5196.0	5468.9	5455.4	5733.7	6557.8
44°	6873.7	6930.2	6524.2	5452.7	5183.9	5355.9	5675.9	5849.3	5658.4	5716.2	6551.1
45°	6868.4	6872.4	6365.6	5468.9	5307.6	5603.3	5889.7	6182.7	5837.2	5678.6	6639.8
47.5°	6711.1	6665.4	6231.1	5349.2	5693.4	6256.7	6521.5	6699.0	6057.7	5597.9	6529.6
50°	6400.5	6348.1	5904.4	5298.1	5774.0	6662.7	7028.3	7092.9	6258.0	5518.6	6420.7
52.5°	6422.0	6407.2	5997.2	5374.8	5854.7	6790.4	7376.5	7392.7	6485.2	5685.3	6422.0
55°	6806.5	6755.4	6263.4	5470.2	5795.6	6641.2	7154.7	7126.5	6408.6	5584.5	6540.3
57.5°	6228.4	6262.1	5895.0	5092.5	5072.3	5399.0	5624.8	5554.9	5347.9	5040.0	6084.6
60°	5025.2	5120.7	5155.6	4258.9	3827.4	3659.4	3592.1	3468.5	3503.4	4140.6	5345.2
62.5°	4310.0	4304.7	4523.8	3861.0	2507.2	2156.4	2124.1	2152.3	2555.6	4076.1	5235.0
65°	3417.4	3508.8	3576.0	3272.2	1984.3	1601.1	1599.8	1778.6	2211.5	3406.6	4226.7
67.5°	2169.8	2289.5	2372.8	2093.2	1326.9	1140.0	1109.1	1324.2	1532.6	2234.3	2544.9
70°	1223.4	1279.8	1317.5	1207.2	844.3	591.5	556.6	607.7	926.3	1446.5	1508.4
72.5°	471.9	497.4	548.5	552.5	318.6	190.9	154.6	185.5	389.9	572.7	545.8
75°	72.6	78.0	110.2	131.7	91.4	69.9	73.9	76.6	108.9	147.9	123.7
77.5°	35.0	35.0	33.6	39.0	45.7	49.7	53.8	59.2	64.5	71.3	68.6
80°	22.9	22.9	22.9	26.9	33.6	40.3	45.7	48.4	51.1	56.5	53.8
82.5°	14.8	14.8	14.8	20.2	26.9	33.6	36.3	43.0	48.4	56.5	52.4
85°	8.1	8.1	8.1	13.4	20.2	28.2	26.9	21.5	12.1	1.3	2.7
87.5°	2.7	2.7	2.7	2.7	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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CATALOG NUMBER: GALN-SA2D-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0
2.5°	4226.7	4164.8	4159.5	4033.1	3920.2	3865.0	3820.7	3697.0	3723.9	3652.6	3651.3
5°	4022.3	3896.0	3691.6	3523.6	3355.5	3321.9	3175.4	3047.7	3051.7	2960.3	2976.4
7.5°	3655.3	3567.9	3319.2	3055.7	2832.6	2673.9	2535.5	2452.1	2345.9	2309.6	2290.8
10°	3422.8	3315.2	3035.6	2704.9	2454.8	2370.1	2237.0	2163.1	2054.2	2000.4	1962.8
12.5°	3320.6	3163.3	2813.8	2477.7	2311.0	2223.6	2110.7	1976.2	1847.2	1797.4	1728.9
15°	3331.3	3143.1	2749.2	2386.2	2185.9	2016.5	1915.7	1766.5	1634.7	1547.4	1497.6
17.5°	3494.0	3265.5	2778.8	2316.3	2028.6	1816.2	1618.6	1457.3	1352.4	1286.6	1270.4
20°	3878.5	3567.9	2828.5	2203.4	1871.4	1606.5	1363.2	1195.1	1114.5	1113.1	1114.5
22.5°	4198.5	3890.6	2929.4	2136.2	1714.1	1337.6	1095.7	1041.9	1025.8	1059.4	1063.4
25°	4630.0	4253.6	3102.8	2101.2	1568.9	1140.0	990.8	970.6	969.3	1012.3	1013.7
27.5°	5072.3	4570.8	3206.3	1999.1	1421.0	1037.8	927.6	923.6	945.1	990.8	986.8
30°	5373.4	4837.0	3393.2	1876.7	1246.2	947.8	902.1	907.4	937.0	972.0	977.4
32.5°	5724.3	5099.2	3441.6	1809.5	1138.7	872.5	840.2	852.3	890.0	945.1	974.7
35°	6126.3	5284.7	3515.5	1718.1	1098.3	814.7	798.6	812.0	857.7	894.0	926.3
37.5°	6423.4	5612.7	3529.0	1646.8	1054.0	782.4	756.9	801.2	828.1	879.2	895.3
40°	6643.9	5850.7	3563.9	1602.5	1019.0	740.7	740.7	770.3	806.6	853.7	885.9
42.5°	6785.0	6024.1	3589.5	1562.2	951.8	728.6	721.9	751.5	799.9	845.6	860.4
44°	6871.0	6098.0	3563.9	1524.5	933.0	713.9	713.9	739.4	777.0	830.8	848.3
45°	6892.6	6190.8	3507.4	1523.2	910.1	696.4	693.7	742.1	767.6	833.5	844.3
47.5°	6975.9	6305.1	3514.2	1480.1	855.0	654.7	701.8	723.3	746.1	803.9	840.2
50°	6973.2	6376.3	3499.4	1417.0	814.7	607.7	685.6	709.8	732.7	791.8	806.6
52.5°	6992.0	6642.5	3635.2	1316.1	742.1	547.2	631.9	685.6	713.9	763.6	794.5
55°	6982.6	6794.4	3769.6	1240.8	639.9	510.9	586.1	649.3	689.7	742.1	756.9
57.5°	6377.7	6005.3	3488.6	1099.7	529.7	467.8	521.6	611.7	662.8	716.5	735.4
60°	5210.8	4628.6	2876.9	809.3	435.6	430.2	485.3	599.6	621.1	668.1	700.4
62.5°	4815.5	4060.0	2281.4	618.4	372.4	393.9	447.7	541.8	575.4	633.2	662.8
65°	3768.3	2696.8	1412.9	418.1	328.0	353.6	404.7	474.6	529.7	583.5	618.4
67.5°	2231.6	1473.4	699.1	293.1	286.3	313.2	365.7	418.1	481.3	540.4	557.9
70°	1215.3	724.6	298.4	223.2	243.3	267.5	318.6	354.9	415.4	461.1	490.7
72.5°	389.9	220.5	149.2	165.4	185.5	213.8	244.7	289.0	332.1	358.9	383.1
75°	94.1	92.8	106.2	115.6	134.4	155.9	181.5	204.3	238.0	263.5	285.0
77.5°	65.9	71.3	82.0	95.4	102.2	110.2	126.4	143.8	158.6	177.5	190.9
80°	51.1	55.1	63.2	69.9	76.6	83.4	91.4	98.1	107.5	119.6	126.4
82.5°	48.4	51.1	59.2	63.2	60.5	59.2	64.5	67.2	68.6	72.6	76.6
85°	4.0	0.0	2.7	9.4	22.9	33.6	36.3	36.3	35.0	37.6	37.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.4	4.0
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°	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0
2.5°	3635.2	3589.5	3606.9	3628.4	3597.5	3526.3	3545.1	3537.0	3609.6	3604.2	3676.8
5°	3047.7	2976.4	2984.5	3089.4	3055.7	3092.0	3019.4	3010.0	3023.5	3030.2	3042.3
7.5°	2332.5	2323.1	2403.7	2492.5	2534.1	2491.1	2419.9	2403.7	2388.9	2359.4	2426.6
10°	1903.6	1906.3	1900.9	1968.1	2015.2	2005.8	1962.8	1957.4	1929.2	1918.4	1956.1
12.5°	1699.3	1663.0	1645.5	1624.0	1660.3	1684.5	1665.7	1652.2	1653.6	1667.0	1672.4
15°	1501.7	1478.8	1441.2	1417.0	1434.4	1422.3	1415.6	1442.5	1435.8	1433.1	1465.4
17.5°	1279.8	1298.7	1296.0	1269.1	1291.9	1282.5	1281.2	1262.4	1236.8	1218.0	1228.7
20°	1133.3	1168.3	1195.1	1196.5	1208.6	1207.2	1187.1	1129.3	1110.4	1106.4	1109.1
22.5°	1080.9	1099.7	1132.0	1177.7	1177.7	1156.2	1132.0	1064.7	1047.3	1028.4	1020.4
25°	1039.2	1075.5	1117.2	1122.5	1144.1	1123.9	1084.9	1051.3	1015.0	989.5	989.5
27.5°	1017.7	1058.0	1088.9	1098.3	1127.9	1111.8	1071.5	1028.4	985.4	984.1	961.2
30°	1008.3	1045.9	1066.1	1088.9	1102.4	1076.8	1064.7	1019.0	976.0	965.3	927.6
32.5°	980.0	1033.8	1071.5	1066.1	1076.8	1066.1	1048.6	1011.0	962.6	938.4	934.3
35°	947.8	1001.6	1041.9	1070.1	1076.8	1054.0	1043.2	992.1	926.3	914.2	872.5
37.5°	930.3	962.6	1012.3	1058.0	1067.4	1055.3	1019.0	966.6	900.7	887.3	851.0
40°	908.8	950.5	989.5	1027.1	1055.3	1025.8	984.1	933.0	903.4	863.1	852.3
42.5°	892.7	939.7	972.0	1013.7	1045.9	1006.9	958.5	923.6	881.9	855.0	824.1
44°	887.3	930.3	951.8	1002.9	1029.8	1000.2	959.9	923.6	875.2	851.0	824.1
45°	868.5	927.6	950.5	996.2	1019.0	994.8	943.7	907.4	872.5	842.9	814.7
47.5°	849.6	890.0	929.0	965.3	981.4	973.3	930.3	885.9	844.3	826.8	799.9
50°	844.3	884.6	920.9	954.5	973.3	957.2	918.2	875.2	826.8	798.6	775.7
52.5°	817.4	867.1	907.4	918.2	942.4	933.0	903.4	856.4	810.7	786.5	767.6
55°	778.4	830.8	885.9	899.4	934.3	919.5	875.2	830.8	791.8	755.5	731.3
57.5°	763.6	814.7	868.5	885.9	907.4	883.2	872.5	825.4	763.6	744.8	707.1
60°	726.0	790.5	834.9	875.2	876.5	869.8	851.0	797.2	746.1	711.2	684.3
62.5°	696.4	756.9	791.8	829.5	852.3	833.5	814.7	764.9	709.8	670.8	639.9
65°	653.4	708.5	738.1	760.9	786.5	783.8	751.5	715.2	657.4	626.5	596.9
67.5°	587.5	635.9	676.2	697.7	713.9	709.8	685.6	660.1	600.9	570.0	548.5
70°	508.2	557.9	583.5	595.6	611.7	619.8	600.9	588.8	536.4	496.1	475.9
72.5°	408.7	441.0	478.6	489.3	496.1	501.4	501.4	490.7	436.9	420.8	385.8
75°	301.1	326.7	354.9	354.9	367.0	368.4	371.0	364.3	324.0	302.5	294.4
77.5°	204.3	223.2	246.0	255.4	263.5	262.2	260.8	242.0	220.5	211.1	203.0
80°	133.1	151.9	162.7	174.8	182.8	181.5	184.2	170.7	161.3	145.2	147.9
82.5°	79.3	94.1	104.9	119.6	119.6	123.7	123.7	119.6	110.2	102.2	102.2
85°	37.6	49.7	56.5	65.9	71.3	72.6	64.5	55.1	45.7	41.7	45.7
87.5°	6.7	9.4	13.4	12.1	14.8	13.4	13.4	13.4	13.4	10.8	12.1
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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CATALOG NUMBER: GALN-SA2D-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0
2.5°	3650.0	3717.2	3764.2	3842.2	3976.6	4084.2	4194.4	4276.4	4285.8	4310.0
5°	3086.7	3123.0	3242.6	3398.6	3508.8	3690.3	3807.2	4019.7	4099.0	4183.7
7.5°	2410.4	2469.6	2629.6	2734.4	2976.4	3203.6	3438.9	3701.0	3805.9	3818.0
10°	2032.7	2118.7	2227.6	2395.7	2527.4	2780.1	3073.2	3364.9	3481.9	3502.1
12.5°	1785.3	1895.6	2040.7	2161.7	2288.1	2508.6	2789.6	3149.8	3301.8	3393.2
15°	1547.4	1661.6	1821.6	1989.7	2101.2	2364.7	2695.5	3101.4	3299.1	3379.7
17.5°	1302.7	1408.9	1540.6	1722.1	1946.6	2242.4	2680.7	3262.8	3479.2	3573.3
20°	1093.0	1152.1	1305.4	1492.2	1773.2	2117.4	2686.0	3500.7	3818.0	3859.7
22.5°	1011.0	1024.4	1084.9	1257.0	1564.8	1989.7	2781.5	3838.2	4198.5	4335.6
25°	947.8	945.1	961.2	1076.8	1412.9	1939.9	2875.6	4148.7	4620.6	4769.8
27.5°	912.8	885.9	887.3	996.2	1305.4	1859.3	2996.6	4505.0	5099.2	5165.0
30°	895.3	890.0	873.8	918.2	1188.4	1738.3	3016.8	4855.8	5381.5	5476.9
32.5°	884.6	832.2	812.0	828.1	1078.2	1606.5	3092.0	5087.1	5731.0	5689.4
35°	830.8	783.8	770.3	786.5	1000.2	1532.6	3042.3	5288.7	5993.2	6063.1
37.5°	810.7	769.0	742.1	728.6	927.6	1470.7	3016.8	5599.3	6247.3	6415.3
40°	791.8	747.5	715.2	701.8	871.1	1388.7	3008.7	5838.6	6540.3	6641.2
42.5°	770.3	742.1	705.8	681.6	802.6	1306.7	2915.9	5912.5	6630.4	6739.3
44°	763.6	720.6	682.9	674.9	775.7	1265.0	2897.1	5979.7	6708.4	6873.7
45°	756.9	716.5	673.5	662.8	766.3	1242.2	2871.6	5995.9	6837.4	6868.4
47.5°	738.1	712.5	670.8	641.3	746.1	1192.5	2794.9	5904.4	6705.7	6711.1
50°	723.3	693.7	650.7	592.9	719.2	1150.8	2829.9	5870.8	6388.4	6400.5
52.5°	707.1	662.8	638.6	539.1	674.9	1115.8	2903.8	6022.8	6424.7	6422.0
55°	688.3	639.9	580.8	493.4	600.9	1071.5	3082.6	6322.5	6760.8	6806.5
57.5°	658.7	617.1	532.4	453.1	516.2	986.8	3024.8	5748.5	6220.4	6228.4
60°	619.8	580.8	482.6	422.1	423.5	778.4	2704.9	4479.4	4908.3	5025.2
62.5°	582.1	560.6	441.0	377.8	360.3	619.8	2286.8	3722.5	4213.2	4310.0
65°	537.7	485.3	404.7	344.2	309.2	434.2	1620.0	2781.5	3287.0	3417.4
67.5°	481.3	424.8	356.3	302.5	264.8	290.4	836.2	1581.0	2093.2	2169.8
70°	420.8	368.4	299.8	255.4	213.8	200.3	368.4	754.2	1144.1	1223.4
72.5°	345.5	297.1	239.3	201.7	160.0	138.5	123.7	201.7	406.0	471.9
75°	250.1	216.4	180.1	143.8	112.9	88.7	72.6	60.5	67.2	72.6
77.5°	184.2	157.3	133.1	102.2	79.3	63.2	49.7	37.6	36.3	35.0
80°	143.8	127.7	106.2	82.0	61.8	47.1	35.0	25.5	22.9	22.9
82.5°	112.9	104.9	87.4	67.2	51.1	37.6	25.5	17.5	14.8	14.8
85°	43.0	43.0	63.2	55.1	39.0	26.9	17.5	9.4	8.1	8.1
87.5°	10.8	10.8	10.8	10.8	9.4	8.1	8.1	4.0	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)