

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: P527874

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
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-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT 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 III - 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



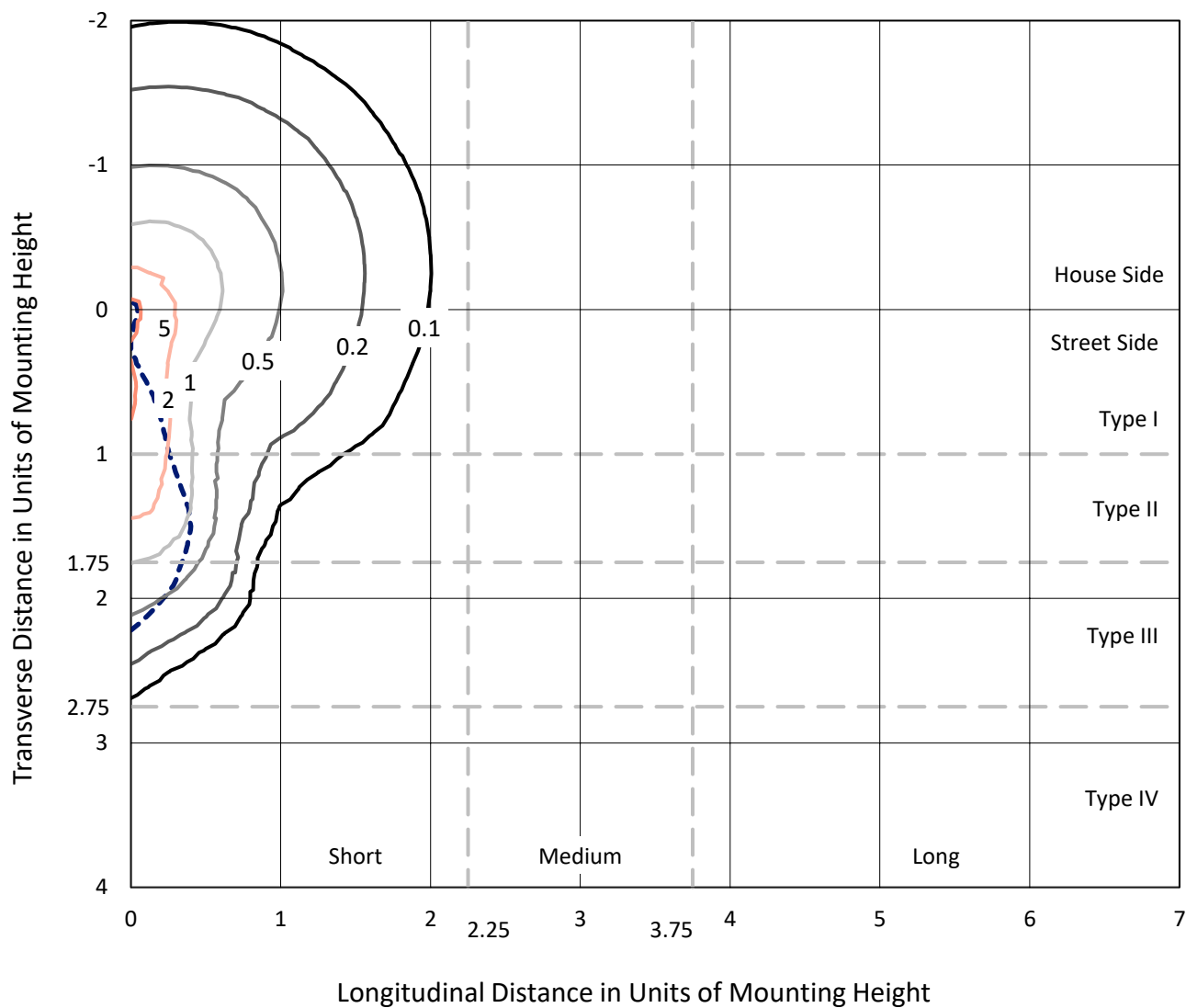
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

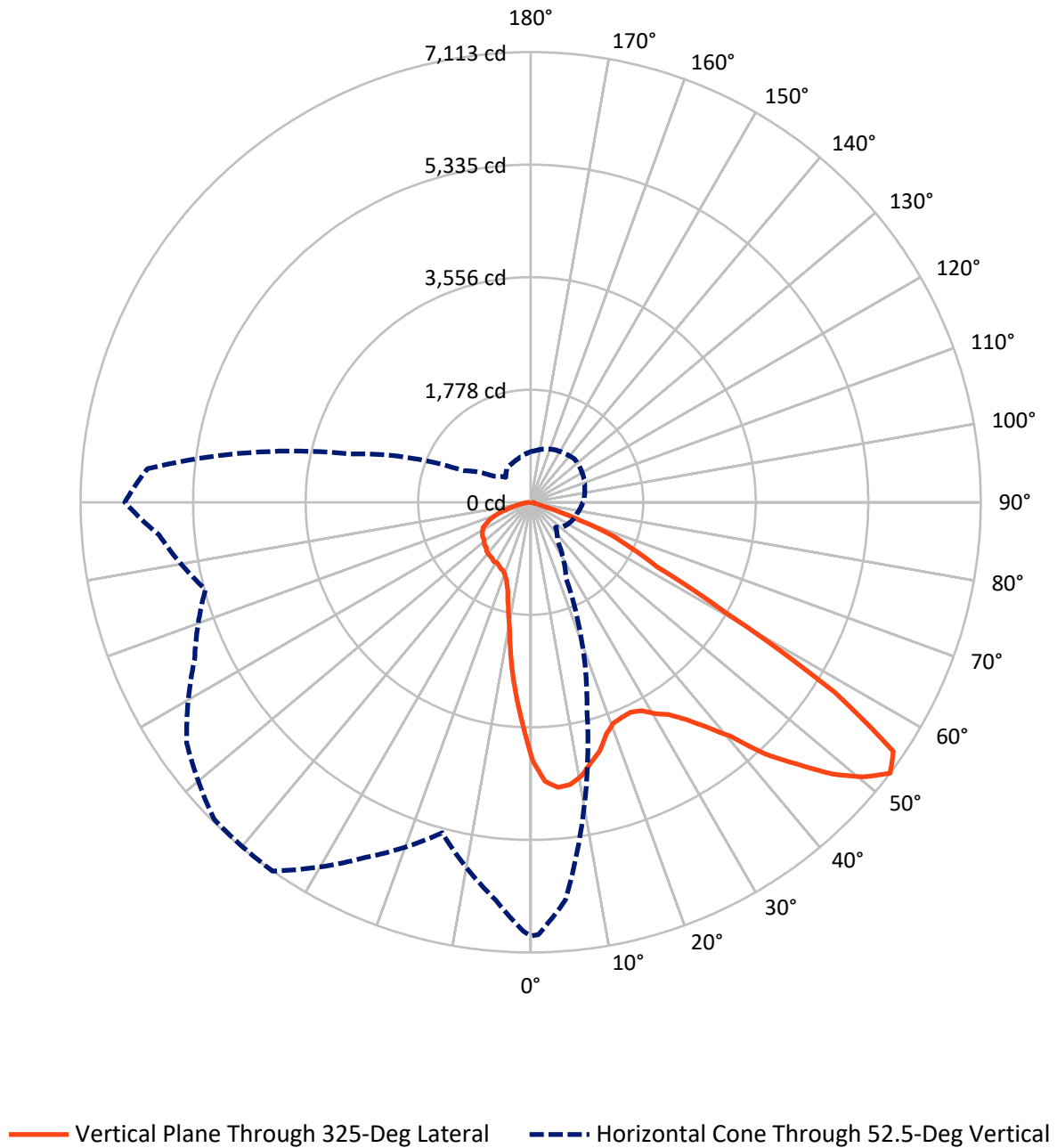


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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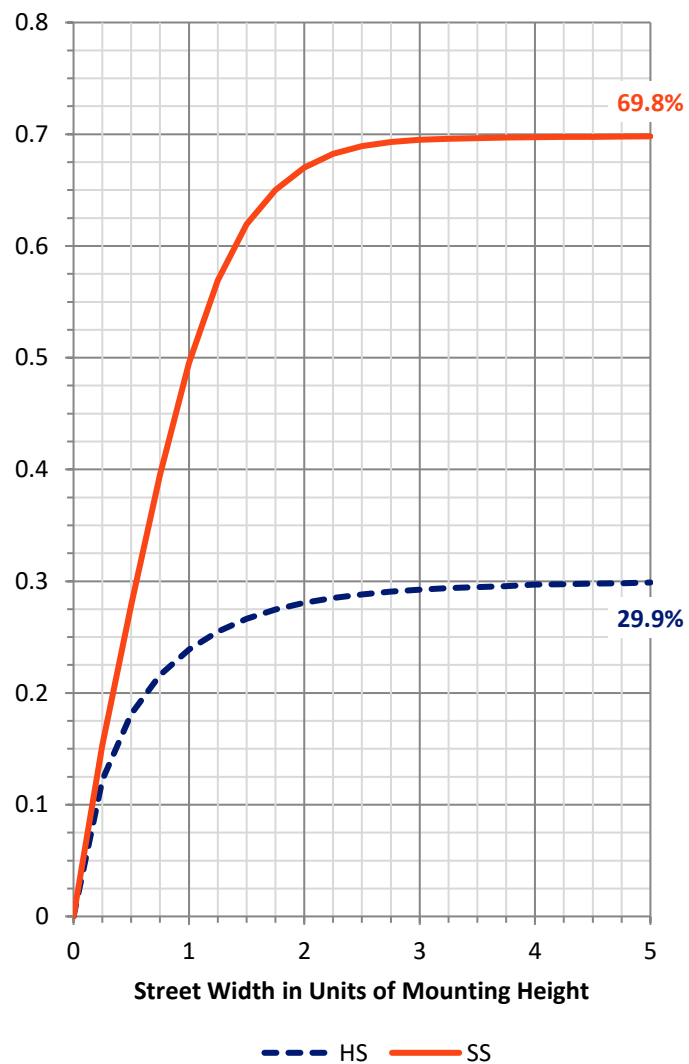
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2775.5	0.0	2775.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	6431.5	0.0	6431.5
	% Fixture	69.9	0.0	69.9
Total	Lumens	9207.0	0.0	9207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.7	3.4
10°-20°	675.8	7.3
20°-30°	1021.1	11.1
30°-40°	1475.5	16.0
40°-50°	1963.6	21.3
50°-60°	2196.4	23.9
60°-70°	1237.9	13.4
70°-80°	275.9	3.0
80°-90°	49.1	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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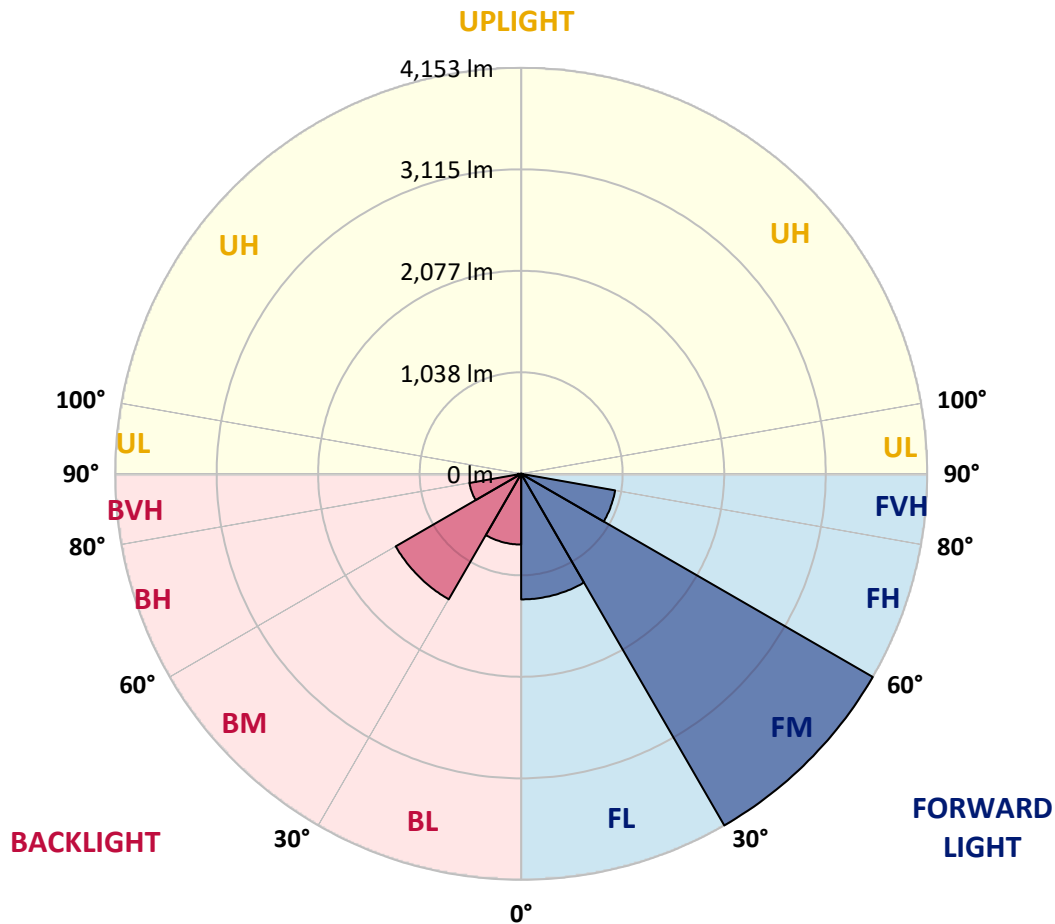
CATALOG NUMBER: GALN-SA2D-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1284.8	14.0			
FM	(30°-60°)	4153.1	45.1			
FH	(60°-80°)	975.8	10.6			G1/1800
FVH	(80°-90°)	17.8	0.2			G1/100
BL	(0°-30°)	723.8	7.9	B2/1000		
BM	(30°-60°)	1482.4	16.1	B2/2500		
BH	(60°-80°)	538.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	31.3	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1
2.5°	4154.2	4220.9	4148.8	4020.7	3930.0	3847.3	3760.5	3743.2	3629.7	3609.7	3527.0
5°	3918.0	3903.3	3815.2	3647.1	3461.6	3293.5	3169.3	3049.2	2967.8	2873.1	2866.4
7.5°	3631.1	3545.7	3495.0	3240.1	3010.5	2746.3	2632.9	2450.1	2392.7	2307.3	2263.2
10°	3374.9	3312.1	3193.4	2938.5	2618.2	2443.4	2322.0	2223.2	2156.5	2068.4	1957.7
12.5°	3248.1	3222.7	3089.3	2694.3	2456.7	2269.9	2184.5	2088.4	1975.0	1833.6	1778.8
15°	3270.8	3185.4	3083.9	2647.6	2319.3	2139.1	2003.0	1882.9	1737.5	1602.7	1524.0
17.5°	3440.2	3374.9	3172.0	2676.9	2267.3	2007.0	1760.2	1582.7	1451.9	1330.5	1275.7
20°	3773.9	3679.1	3450.9	2714.3	2155.2	1822.9	1540.0	1321.1	1181.0	1116.9	1098.3
22.5°	4143.5	4087.5	3723.1	2798.4	2065.7	1652.1	1306.4	1087.6	1035.5	1018.2	1052.9
25°	4593.2	4447.8	4146.2	2935.8	1996.4	1506.6	1108.9	987.5	960.8	978.2	1018.2
27.5°	4934.8	4896.1	4442.4	3065.3	1901.6	1331.8	998.2	918.1	926.1	943.5	980.8
30°	5340.5	5144.4	4729.3	3154.7	1816.2	1211.7	920.8	899.4	907.4	936.8	955.5
32.5°	5584.7	5511.3	4909.5	3289.4	1717.5	1107.6	860.7	840.7	852.7	896.8	940.8
35°	5895.7	5750.2	5132.3	3324.1	1648.1	1066.2	818.0	803.3	831.4	862.1	911.4
37.5°	6258.6	6158.5	5440.6	3300.1	1610.7	1023.5	782.0	775.3	795.3	838.0	895.4
40°	6473.5	6442.8	5602.1	3314.8	1552.0	986.2	740.6	748.6	790.0	823.4	879.4
42.5°	6680.3	6480.1	5840.9	3309.5	1514.6	935.5	744.6	735.3	767.3	806.0	859.4
45°	6725.7	6526.9	5897.0	3272.1	1469.2	886.1	713.9	717.9	756.6	804.7	839.4
47.5°	6696.3	6549.5	6001.1	3261.4	1426.5	851.4	668.6	716.6	739.3	778.0	827.4
50°	6676.3	6668.3	6089.2	3312.1	1369.2	796.7	613.9	699.3	721.9	760.6	814.0
52.5°	6852.5	6835.1	6309.3	3445.6	1323.8	738.0	557.8	655.2	709.9	747.3	799.3
55°	6959.2	6883.2	6687.0	3609.7	1247.7	660.6	519.1	600.5	680.6	713.9	767.3
57.5°	6260.0	6207.9	6049.1	3369.5	1119.6	559.1	471.1	544.5	640.5	692.6	747.3
60°	5208.4	5127.0	4720.0	2863.8	826.0	435.0	441.7	500.4	629.9	649.9	713.9
62.5°	4910.8	4709.3	4155.5	2304.6	633.9	373.6	396.3	460.4	573.8	607.2	671.2
65°	3896.6	3747.2	2973.2	1664.1	424.4	324.3	361.6	415.0	495.1	560.5	619.2
67.5°	2439.4	2296.6	1586.7	787.3	296.3	277.6	322.9	379.0	444.4	503.1	568.5
70°	1274.4	1118.3	732.6	284.2	204.2	226.9	269.6	322.9	387.0	435.0	485.7
72.5°	475.1	385.7	238.9	122.8	141.5	173.5	218.9	257.6	302.9	361.6	389.7
75°	73.4	62.7	61.4	74.7	96.1	125.4	156.1	194.8	234.9	272.2	290.9
77.5°	34.7	33.4	37.4	49.4	64.1	89.4	113.4	150.8	182.8	206.8	217.5
80°	22.7	21.4	24.0	33.4	48.0	66.7	90.7	116.1	145.5	165.5	162.8
82.5°	13.3	14.7	14.7	22.7	33.4	48.0	65.4	88.1	108.1	125.4	114.8
85°	8.0	6.7	6.7	13.3	22.7	38.7	54.7	37.4	38.7	38.7	44.0
87.5°	2.7	2.7	2.7	1.3	2.7	2.7	4.0	6.7	8.0	9.3	12.0
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°	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1
2.5°	3524.3	3565.7	3551.0	3499.0	3539.0	3545.7	3519.0	3611.1	3628.4	3600.4	3608.4
5°	2857.1	2867.8	2891.8	2942.5	2978.5	3021.2	3021.2	3023.9	2987.9	3078.6	3051.9
7.5°	2225.9	2232.6	2260.6	2368.7	2399.4	2480.8	2515.5	2491.4	2419.4	2388.7	2414.0
10°	1921.6	1882.9	1873.6	1886.9	1956.3	1991.0	2020.4	2012.4	2000.4	1976.3	1949.6
12.5°	1718.8	1690.8	1668.1	1636.1	1640.1	1673.4	1696.1	1677.4	1682.8	1688.1	1696.1
15°	1498.6	1478.6	1466.6	1418.5	1413.2	1435.9	1443.9	1454.6	1474.6	1475.9	1466.6
17.5°	1265.1	1247.7	1274.4	1301.1	1282.4	1283.8	1298.4	1307.8	1302.4	1278.4	1266.4
20°	1104.9	1123.6	1150.3	1175.7	1195.7	1207.7	1213.0	1198.3	1181.0	1131.6	1130.3
22.5°	1058.2	1082.2	1104.9	1143.6	1162.3	1193.0	1165.0	1131.6	1107.6	1083.6	1055.6
25°	1023.5	1043.5	1088.9	1103.6	1139.6	1165.0	1145.0	1111.6	1070.2	1035.5	1014.2
27.5°	998.2	1020.9	1050.2	1090.3	1118.3	1133.0	1112.9	1099.6	1056.9	1015.5	984.8
30°	982.2	1006.2	1059.6	1092.9	1116.9	1129.0	1094.3	1078.2	1047.6	1012.9	986.2
32.5°	971.5	992.8	1038.2	1080.9	1096.9	1096.9	1102.3	1083.6	1040.9	982.2	959.5
35°	936.8	966.2	1003.5	1052.9	1082.2	1099.6	1072.9	1051.6	1023.5	963.5	922.1
37.5°	916.8	936.8	984.8	1031.5	1056.9	1075.6	1064.9	1027.5	990.2	940.8	907.4
40°	895.4	927.5	970.2	1014.2	1042.2	1060.9	1052.9	1008.9	963.5	916.8	894.1
42.5°	880.7	902.1	946.1	995.5	1028.9	1064.9	1040.9	986.2	954.1	890.1	864.7
45°	868.7	903.4	950.1	970.2	1004.9	1042.2	999.5	966.2	928.8	882.1	860.7
47.5°	854.1	886.1	916.8	970.2	986.2	1003.5	995.5	942.1	910.1	859.4	844.7
50°	848.7	860.7	916.8	946.1	968.8	986.2	964.8	924.8	894.1	842.0	810.0
52.5°	827.4	850.1	886.1	924.8	952.8	974.2	939.5	914.1	872.7	818.0	798.0
55°	800.7	814.0	878.1	918.1	932.8	947.5	934.1	892.8	850.1	794.0	774.0
57.5°	766.0	796.7	848.7	904.8	923.4	931.5	910.1	876.7	823.4	774.0	742.0
60°	730.0	762.0	819.4	864.7	883.4	912.8	880.7	860.7	799.3	744.6	709.9
62.5°	693.9	730.0	772.7	830.0	846.0	858.1	850.1	822.0	772.7	711.3	668.6
65°	651.2	677.9	731.3	760.6	771.3	799.3	771.3	760.6	716.6	657.9	621.9
67.5°	587.2	609.8	656.6	684.6	692.6	704.6	703.3	691.3	641.9	601.8	569.8
70°	513.8	533.8	563.1	596.5	600.5	615.2	601.8	599.2	567.1	512.4	495.1
72.5°	412.3	431.0	469.7	484.4	485.7	491.1	484.4	475.1	467.1	409.7	392.3
75°	316.3	326.9	345.6	359.0	359.0	365.6	361.6	352.3	330.9	294.9	277.6
77.5°	220.2	230.9	254.9	262.9	261.6	264.2	252.2	242.9	210.8	192.2	177.5
80°	160.1	166.8	178.8	184.2	185.5	189.5	174.8	166.8	148.1	126.8	120.1
82.5°	116.1	120.1	121.4	128.1	128.1	121.4	117.4	109.4	96.1	82.7	77.4
85°	48.0	49.4	50.7	58.7	60.1	72.1	66.7	62.7	54.7	46.7	42.7
87.5°	12.0	13.3	17.3	14.7	17.3	17.3	18.7	21.4	21.4	17.3	17.3
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°	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1
2.5°	3639.1	3649.8	3785.9	3803.2	3869.9	3938.0	4075.4	4174.2	4254.3	4306.3	4321.0
5°	3079.9	3148.0	3210.7	3312.1	3404.2	3535.0	3685.8	3872.6	4107.5	4227.6	4275.6
7.5°	2411.4	2491.4	2582.2	2680.9	2815.7	3050.6	3252.1	3468.3	3768.5	3892.6	4080.8
10°	1968.3	2057.7	2177.8	2253.9	2416.7	2640.9	2875.8	3125.3	3412.2	3591.0	3808.6
12.5°	1740.1	1813.5	1924.3	2084.4	2205.9	2351.3	2526.1	2841.1	3252.1	3421.6	3571.0
15°	1487.9	1569.3	1697.4	1874.9	2020.4	2193.9	2390.0	2733.0	3170.7	3432.2	3559.0
17.5°	1279.7	1338.5	1473.2	1626.7	1793.5	1983.0	2264.6	2727.6	3256.1	3591.0	3797.9
20°	1135.6	1143.6	1217.0	1347.8	1574.7	1821.5	2187.2	2701.0	3529.7	3864.6	4126.2
22.5°	1044.9	1036.9	1038.2	1149.0	1307.8	1662.7	2065.7	2791.7	3840.6	4299.6	4475.8
25°	999.5	978.2	964.8	988.8	1133.0	1474.6	1973.7	2911.8	4175.5	4658.6	4874.8
27.5°	975.5	938.1	911.4	915.4	1020.9	1379.8	1916.3	2963.8	4507.8	5159.0	5235.1
30°	966.2	919.4	880.7	867.4	936.8	1247.7	1793.5	3053.2	4805.4	5433.9	5499.3
32.5°	932.8	875.4	838.0	826.0	854.1	1131.6	1705.4	3117.3	5068.3	5732.8	5710.2
35°	894.1	846.0	799.3	776.7	796.7	1056.9	1634.7	3086.6	5377.9	5965.0	5953.0
37.5°	890.1	827.4	788.7	751.3	750.0	964.8	1538.6	3116.0	5575.4	6381.4	6217.3
40°	855.4	815.4	764.6	734.0	716.6	918.1	1445.2	3046.6	5865.0	6549.5	6388.1
42.5°	856.7	796.7	752.6	716.6	699.3	850.1	1381.2	3027.9	5966.4	6823.1	6468.1
45°	835.4	776.7	739.3	696.6	687.2	798.0	1319.8	2941.2	6145.2	6836.4	6368.1
47.5°	814.0	762.0	721.9	671.2	649.9	779.3	1271.7	2869.1	6051.8	6711.0	6229.3
50°	799.3	739.3	701.9	665.9	605.8	747.3	1209.0	2851.7	5921.0	6541.5	5971.7
52.5°	774.0	720.6	681.9	653.9	557.8	717.9	1185.0	2953.2	6081.1	6414.8	5897.0
55°	750.0	695.3	645.9	591.2	517.8	640.5	1118.3	3047.9	6314.7	6707.0	6235.9
57.5°	724.6	672.6	619.2	553.8	479.1	560.5	1048.9	3065.3	5877.0	6198.6	5919.7
60°	691.3	624.5	584.5	499.1	437.7	464.4	831.4	2702.3	4558.5	5176.4	5185.7
62.5°	653.9	581.8	547.1	447.0	395.0	400.3	677.9	2271.3	3697.8	4285.0	4539.8
65°	604.5	535.1	493.8	413.7	364.3	347.0	496.4	1664.1	2809.0	3476.3	3765.9
67.5°	540.5	475.1	423.0	360.3	325.6	297.6	339.0	936.8	1658.7	2334.0	2422.0
70°	472.4	416.4	361.6	309.6	270.9	250.9	248.2	415.0	792.7	1255.7	1429.2
72.5°	372.3	332.3	288.2	249.5	224.2	194.8	177.5	172.1	268.2	511.1	705.9
75°	266.9	233.5	208.2	182.8	164.1	148.1	134.8	122.8	112.1	128.1	176.1
77.5°	168.1	156.1	136.1	129.4	118.8	114.8	109.4	102.8	94.7	89.4	89.4
80°	113.4	105.4	98.8	97.4	93.4	92.1	93.4	86.7	78.7	72.1	74.7
82.5°	76.1	74.7	73.4	72.1	73.4	74.7	77.4	76.1	69.4	65.4	66.7
85°	45.4	48.0	50.7	53.4	58.7	52.0	42.7	36.0	32.0	29.4	28.0
87.5°	17.3	24.0	21.4	20.0	21.4	20.0	18.7	17.3	14.7	13.3	13.3
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: P527874

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1	4086.1
2.5°	4418.4	4445.1	4467.8	4462.4	4415.7	4353.0	4327.7	4198.2	4171.5	4154.2
5°	4478.5	4633.3	4666.6	4646.6	4525.2	4371.7	4222.2	4032.7	3922.0	3918.0
7.5°	4367.7	4558.5	4618.6	4663.9	4502.5	4235.6	3979.4	3695.1	3625.7	3631.1
10°	4086.1	4390.4	4538.5	4585.2	4399.7	4168.9	3813.9	3525.6	3377.5	3374.9
12.5°	3930.0	4168.9	4210.2	4275.6	4220.9	3987.4	3717.8	3394.9	3250.7	3248.1
15°	3791.2	3948.7	3960.7	4052.8	4082.1	3924.7	3743.2	3398.9	3282.8	3270.8
17.5°	3912.6	3803.2	3757.8	3769.9	3856.6	3914.0	3890.0	3625.7	3507.0	3440.2
20°	3994.0	3749.8	3612.4	3625.7	3728.5	3938.0	4108.8	3954.0	3765.9	3773.9
22.5°	4211.6	3757.8	3543.0	3528.3	3691.1	4063.4	4355.7	4369.0	4187.5	4143.5
25°	4537.2	3849.9	3521.6	3517.6	3673.8	4198.2	4643.9	4860.1	4674.6	4593.2
27.5°	4798.7	3994.0	3588.4	3601.7	3728.5	4307.6	4889.5	5176.4	5034.9	4934.8
30°	5028.3	4143.5	3681.8	3620.4	3875.3	4365.0	4994.9	5536.7	5423.3	5340.5
32.5°	5123.0	4355.7	3829.9	3728.5	3996.7	4434.4	5213.7	5886.3	5788.9	5584.7
35°	5283.1	4474.5	3910.0	3902.0	4208.9	4601.2	5316.5	6117.2	6077.1	5895.7
37.5°	5411.2	4594.6	4194.2	4106.1	4499.8	4881.5	5482.0	6436.1	6344.0	6258.6
40°	5510.0	4809.4	4459.8	4575.9	4857.4	5136.3	5634.1	6456.1	6721.7	6473.5
42.5°	5419.3	5001.6	4896.1	5173.7	5440.6	5427.3	5651.4	6610.9	6809.8	6680.3
45°	5396.6	5327.2	5586.1	5838.3	5899.7	5668.8	5527.3	6440.1	6783.1	6725.7
47.5°	5341.9	5647.4	6098.5	6509.5	6416.1	5830.3	5379.2	6409.4	6799.1	6696.3
50°	5323.2	5716.8	6477.5	6877.8	6821.8	5970.4	5309.8	6211.9	6685.7	6676.3
52.5°	5321.8	5859.6	6634.9	7078.0	7112.7	6191.9	5404.6	6312.0	6773.7	6852.5
55°	5381.9	5814.3	6614.9	6967.2	6953.9	6093.2	5415.2	6378.7	6881.8	6959.2
57.5°	5076.3	5208.4	5459.3	5738.2	5666.1	5046.9	4836.1	5897.0	6316.0	6260.0
60°	4383.7	3970.0	3687.1	3673.8	3533.7	3340.2	3958.0	5263.1	5263.1	5208.4
62.5°	3839.2	2606.2	2239.2	2135.1	2235.2	2458.1	3817.9	5119.0	4973.5	4910.8
65°	3357.5	1989.7	1618.7	1589.3	1762.8	2099.1	3452.3	4361.0	4104.8	3896.6
67.5°	2160.5	1457.2	1203.7	1151.6	1361.2	1541.3	2297.9	2682.3	2520.8	2439.4
70°	1393.2	948.8	669.9	628.5	709.9	950.1	1467.9	1564.0	1329.1	1274.4
72.5°	659.2	409.7	234.9	193.5	217.5	363.0	580.5	624.5	519.1	475.1
75°	209.5	150.8	96.1	82.7	78.7	93.4	133.4	102.8	74.7	73.4
77.5°	93.4	89.4	76.1	64.1	56.0	46.7	38.7	32.0	33.4	34.7
80°	77.4	70.7	62.7	56.0	46.7	36.0	28.0	21.4	21.4	22.7
82.5°	68.1	61.4	54.7	46.7	40.0	29.4	21.4	14.7	13.3	13.3
85°	29.4	34.7	37.4	40.0	32.0	24.0	14.7	9.3	8.0	8.0
87.5°	12.0	10.7	9.3	8.0	6.7	6.7	5.3	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)