

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: P451536

Luminaire Tested: **GALN-SA2B-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451536
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-SA2B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 6530 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82
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

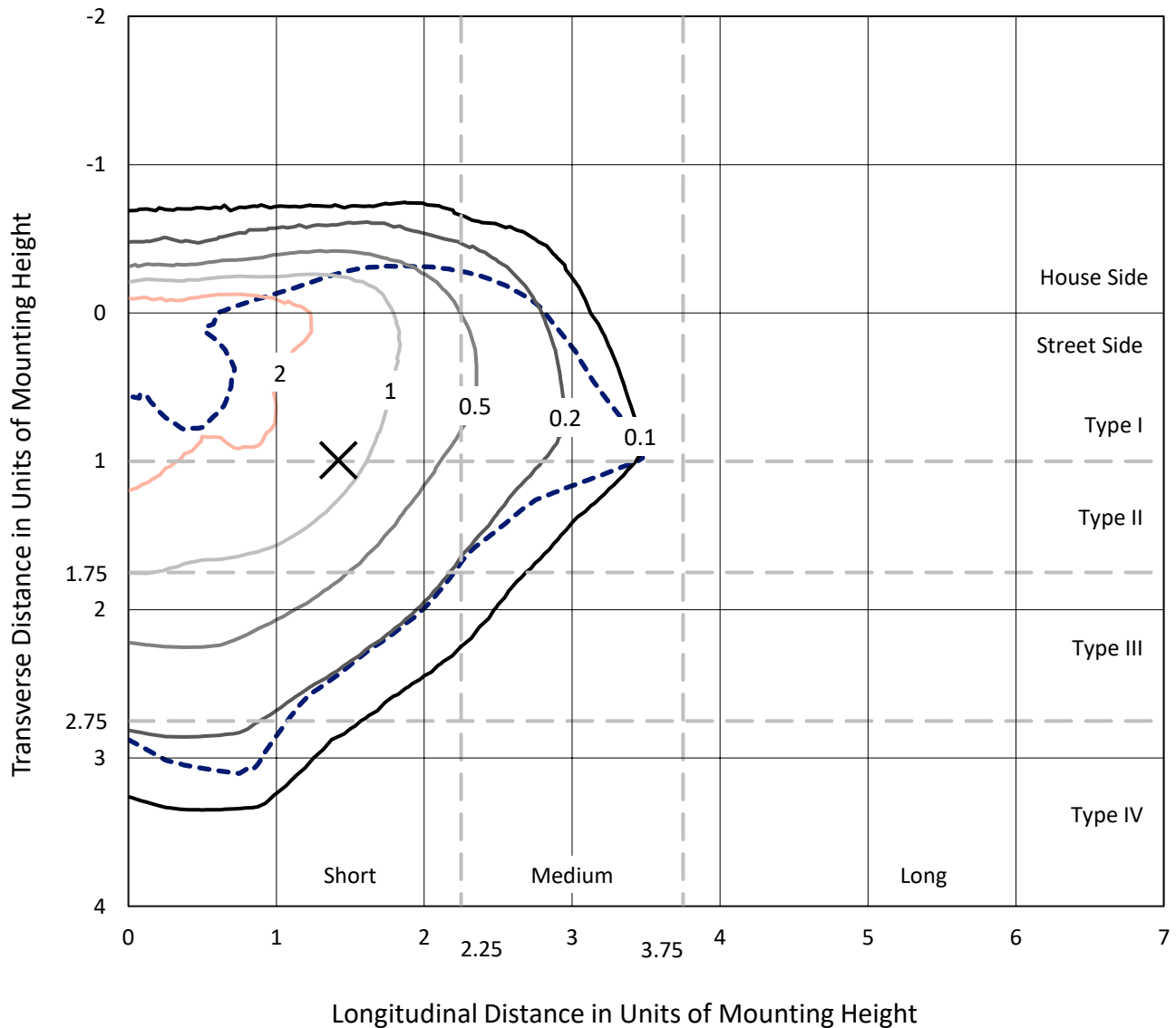


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Iso-Footcandle Lines of Horizontal Illumination

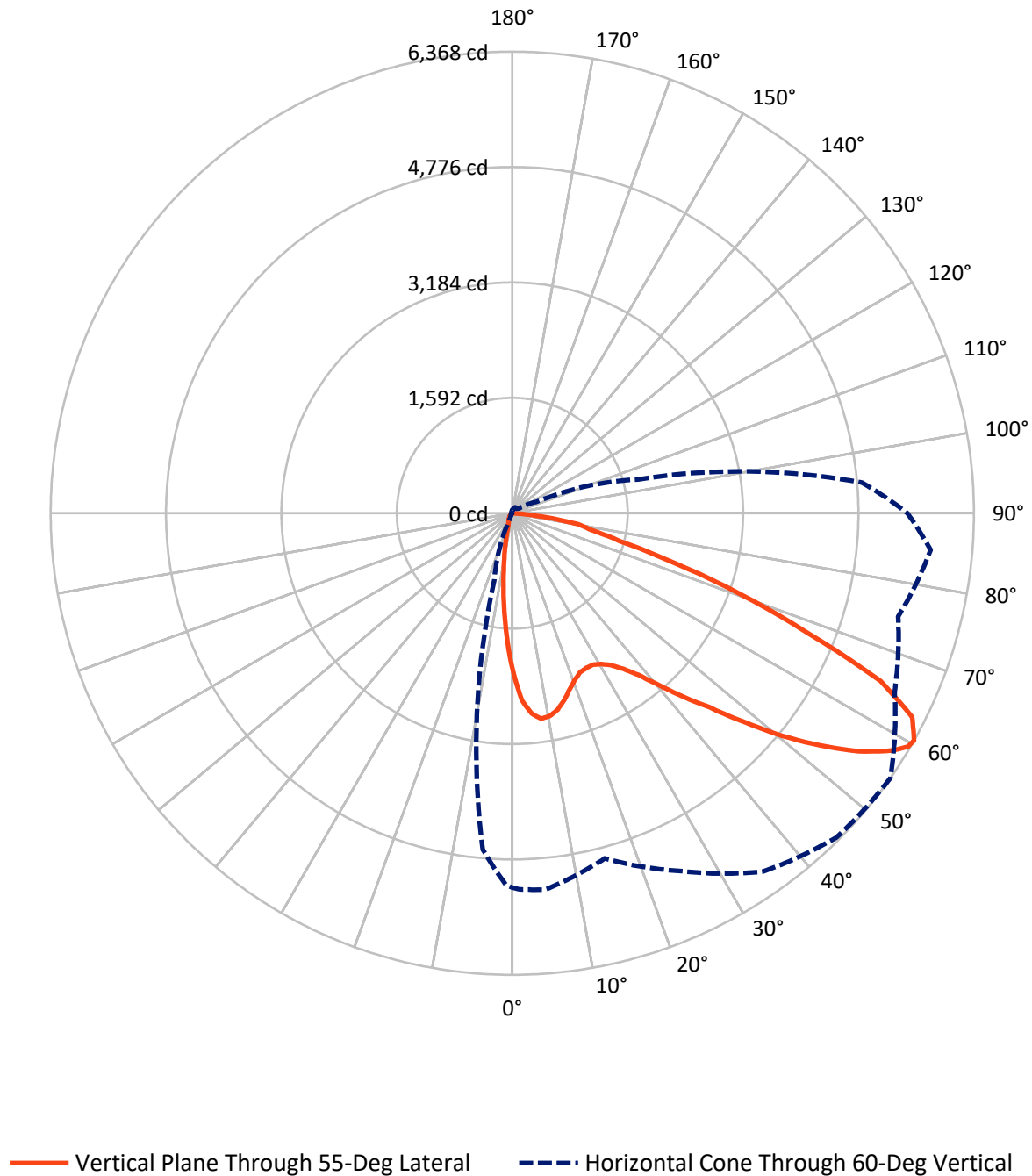
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	969.1	0.0	969.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	5560.9	0.0	5560.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	6530.0	0.0	6530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	2.5
10°-20°	322.4	4.9
20°-30°	477.2	7.3
30°-40°	711.4	10.9
40°-50°	1041.8	16.0
50°-60°	1504.1	23.0
60°-70°	1582.2	24.2
70°-80°	650.9	10.0
80°-90°	76.2	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°	6530.0	100.0
0°-180°	6530.0	100.0

Coefficient of Utilization



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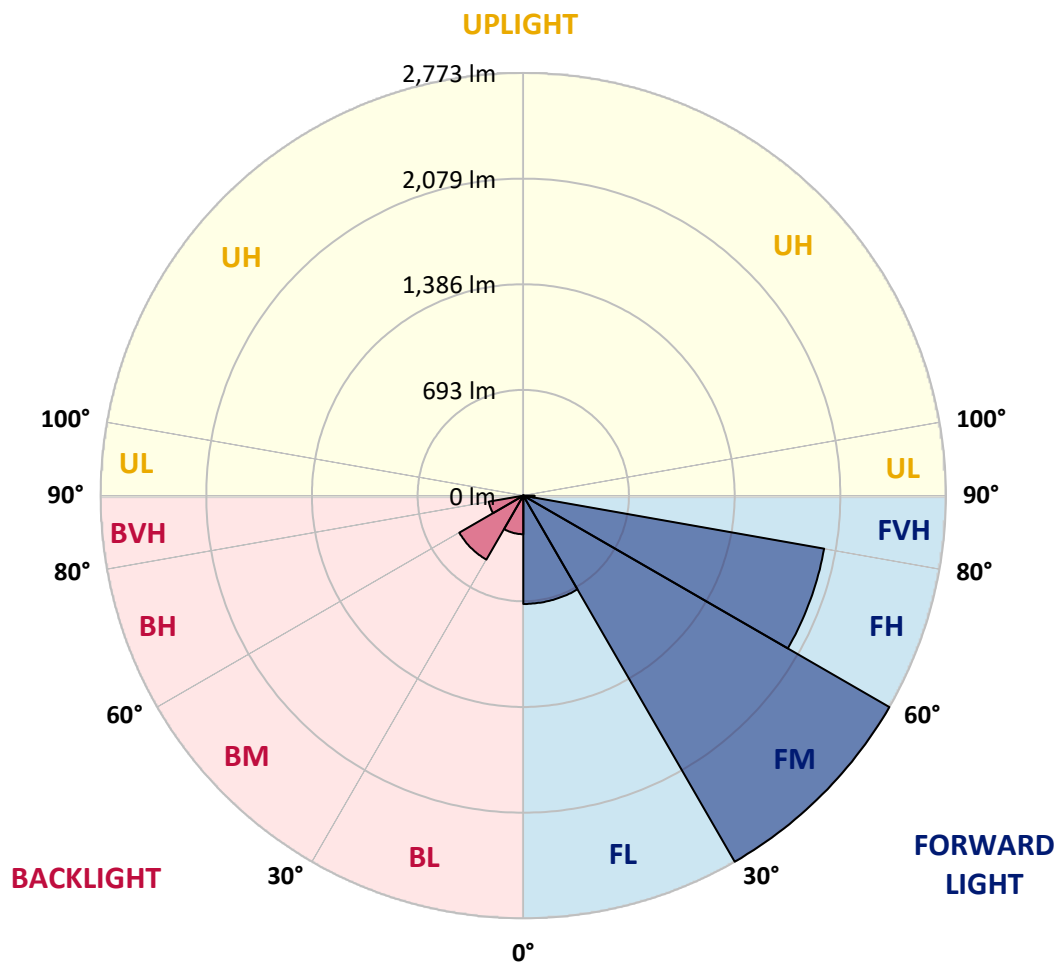
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	710.6	10.9			
FM	(30°-60°)	2772.6	42.5			
FH	(60°-80°)	2003.7	30.7			G2/5000
FVH	(80°-90°)	74.0	1.1			G1/100
BL	(0°-30°)	252.8	3.9	B1/500		
BM	(30°-60°)	484.6	7.4	B1/1000		
BH	(60°-80°)	229.4	3.5	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0
2.5°	2415.6	2411.6	2447.3	2505.6	2564.4	2595.0	2589.0	2586.5	2537.7	2502.1	2427.2
5°	2410.6	2431.2	2495.0	2652.8	2772.5	2830.3	2847.4	2775.5	2680.5	2542.8	2372.9
7.5°	2266.3	2292.0	2396.0	2642.8	2855.4	2981.1	2976.5	2861.4	2665.4	2452.3	2210.0
10°	2087.4	2117.6	2239.7	2539.3	2815.2	2981.1	2990.1	2844.3	2600.6	2327.1	2072.3
12.5°	1961.2	1996.9	2132.1	2442.7	2711.7	2875.0	2885.6	2780.0	2551.8	2278.9	1997.4
15°	1918.5	1952.2	2089.4	2394.0	2601.6	2689.5	2687.0	2676.0	2532.7	2290.5	2001.4
17.5°	1991.9	2019.5	2174.3	2416.1	2498.5	2489.5	2502.6	2555.8	2536.7	2387.5	2128.1
20°	2181.4	2209.5	2375.9	2484.0	2419.6	2362.3	2368.4	2457.3	2573.9	2569.9	2326.1
22.5°	2442.2	2490.0	2640.8	2615.7	2409.1	2283.4	2270.9	2386.5	2637.3	2780.0	2593.5
25°	2772.5	2820.7	2938.3	2825.7	2460.8	2264.8	2253.3	2364.8	2714.2	2985.1	2894.6
27.5°	3049.9	3086.6	3203.7	3030.3	2537.2	2272.9	2253.8	2367.9	2776.5	3159.5	3148.4
30°	3272.1	3299.2	3368.1	3125.8	2603.1	2308.0	2285.9	2412.1	2804.1	3244.4	3354.0
32.5°	3451.0	3496.8	3518.4	3227.8	2697.6	2374.4	2336.7	2497.0	2871.5	3349.5	3569.6
35°	3655.6	3708.4	3680.7	3325.4	2822.2	2477.9	2431.7	2634.8	2973.5	3446.5	3819.9
37.5°	3914.9	3975.8	3867.7	3427.9	2953.9	2633.7	2612.1	2828.3	3128.3	3585.2	4088.3
40°	4183.3	4218.5	4049.1	3552.5	3115.8	2860.4	2881.0	3115.8	3330.9	3751.6	4373.8
42.5°	4392.9	4426.1	4235.6	3657.1	3281.1	3129.3	3215.3	3462.6	3563.1	3922.0	4586.9
45°	4553.3	4581.4	4364.8	3771.2	3504.3	3518.9	3681.2	3819.9	3795.8	4026.0	4751.3
47.5°	4677.9	4702.0	4464.3	3893.8	3838.5	3995.4	4243.6	4302.5	4037.1	4138.6	4900.1
50°	4729.2	4736.2	4495.5	4050.1	4218.0	4602.5	4861.4	4825.7	4313.5	4263.8	5058.4
52.5°	4796.0	4794.5	4584.4	4198.9	4574.9	5145.4	5403.7	5322.8	4626.1	4451.2	5236.3
55°	4971.4	4973.5	4774.9	4410.0	4879.0	5583.6	5860.1	5801.3	4955.9	4767.9	5443.9
57.5°	5184.6	5192.1	5045.8	4656.8	5169.5	5901.3	6200.9	6178.2	5401.7	5120.2	5639.9
59°	5212.2	5227.3	5174.0	4830.7	5341.9	5998.8	6317.5	6339.6	5640.4	5352.4	5746.0
60°	5161.9	5187.1	5211.2	4929.2	5442.9	6034.0	6324.5	6367.7	5819.9	5510.3	5794.2
62.5°	4942.8	4982.5	5103.6	5232.3	5569.1	5924.4	6099.8	6190.3	6042.0	5924.9	5798.8
65°	4655.8	4676.4	4851.3	5286.1	5324.3	5412.8	5467.0	5583.1	5775.1	6084.8	5591.2
67.5°	4185.3	4246.2	4460.3	4974.0	4602.0	4497.5	4483.9	4368.3	4866.9	5703.8	5079.5
70°	3457.5	3484.7	3748.6	4077.8	3473.1	3312.3	3376.6	3333.4	3772.7	4910.1	4088.3
72.5°	2614.6	2676.0	2933.8	3250.5	2363.3	2154.7	2332.2	2316.1	2833.8	3946.1	2808.7
75°	1860.2	1899.9	2228.6	2543.8	1655.1	1402.3	1466.2	1526.0	1978.3	3115.8	1659.7
77.5°	1278.2	1312.3	1559.1	1682.3	1207.3	1156.5	1058.0	1115.8	1296.3	1848.6	903.2
80°	771.0	769.5	931.9	962.0	840.9	976.6	819.3	919.8	783.6	791.1	349.8
82.5°	500.6	495.6	570.0	621.2	467.9	492.1	330.2	476.0	510.7	220.7	110.6
85°	224.2	233.7	273.9	361.4	205.1	109.1	67.4	146.3	217.6	111.1	0.0
87.5°	23.1	18.1	48.3	88.0	28.1	3.0	10.1	5.0	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°	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0
2.5°	2392.5	2363.3	2276.4	2195.0	2125.1	2039.6	1984.4	1897.4	1844.6	1828.5	1831.1
5°	2296.5	2212.5	2047.2	1915.0	1767.7	1683.8	1556.1	1433.5	1367.1	1342.5	1331.4
7.5°	2095.4	2005.5	1805.9	1598.3	1440.5	1293.2	1198.3	1090.2	1016.3	955.5	944.9
10°	1946.2	1828.0	1580.8	1357.6	1232.9	1122.4	1027.4	919.3	832.3	763.0	743.9
12.5°	1856.7	1724.5	1448.6	1261.6	1143.5	1029.9	906.2	781.1	692.1	617.2	582.5
15°	1840.6	1687.3	1411.4	1192.7	1047.0	909.7	745.4	610.2	518.7	447.8	426.2
17.5°	1937.6	1754.2	1405.8	1120.8	920.8	726.3	555.4	443.3	340.3	300.6	285.0
20°	2110.5	1872.3	1405.3	1037.4	791.1	559.4	390.0	289.0	247.3	228.2	219.1
22.5°	2346.2	2033.1	1432.0	965.5	656.4	412.7	278.5	230.2	206.1	190.5	187.0
25°	2634.2	2271.4	1497.3	916.8	553.4	323.7	229.7	197.0	176.9	169.9	166.9
27.5°	2890.1	2499.5	1569.2	866.5	479.5	286.5	213.1	180.4	164.4	158.8	154.3
30°	3110.7	2706.6	1603.9	800.2	420.2	262.4	216.1	193.0	171.9	155.3	147.8
32.5°	3294.7	2865.5	1626.5	739.9	369.9	214.6	170.9	149.3	139.7	133.7	128.7
35°	3524.9	3037.4	1612.9	705.7	344.3	195.5	155.8	128.7	112.6	100.5	95.5
37.5°	3766.2	3209.2	1589.3	677.5	332.7	181.4	148.3	122.1	104.5	92.0	85.4
40°	4016.0	3368.6	1561.7	651.4	322.2	172.4	143.8	116.6	99.0	85.4	78.4
42.5°	4244.7	3523.9	1550.6	634.3	305.1	173.9	140.2	114.1	93.5	79.4	73.4
45°	4429.6	3671.2	1565.7	625.3	286.5	171.4	141.2	111.1	89.0	75.4	69.4
47.5°	4627.2	3879.2	1614.4	616.2	268.4	159.3	148.8	110.6	87.0	72.9	66.3
50°	4856.8	4145.6	1726.0	594.1	246.3	146.3	158.3	110.1	84.4	69.9	63.3
52.5°	5162.9	4448.2	1841.1	555.4	214.1	133.7	151.3	108.6	79.4	66.3	59.8
55°	5437.9	4766.9	1938.6	509.7	173.4	115.6	136.2	102.0	70.9	60.3	54.3
57.5°	5551.5	4946.8	1935.6	446.3	138.7	101.5	112.1	93.5	61.8	53.3	48.3
59°	5509.8	4924.2	1870.8	399.6	126.7	94.0	93.0	92.5	57.8	48.3	44.2
60°	5450.9	4841.8	1800.9	376.5	119.1	89.0	85.4	91.5	54.3	45.2	41.2
62.5°	5225.8	4500.0	1569.2	337.3	109.1	75.4	68.4	77.4	48.3	39.2	35.7
65°	4899.6	3974.7	1328.4	326.2	106.1	62.3	56.8	55.3	41.2	33.2	30.2
67.5°	4263.3	3363.6	1076.1	318.7	107.1	52.3	49.8	41.7	34.2	27.6	25.6
70°	3413.3	2622.7	881.1	310.1	108.1	42.7	41.7	33.2	27.6	23.1	21.1
72.5°	2073.8	1554.6	693.6	269.4	105.0	34.2	37.2	25.1	20.1	16.6	15.6
75°	1282.2	1064.1	430.2	209.6	69.4	25.1	26.1	15.6	13.6	10.6	10.6
77.5°	742.9	672.0	153.8	75.4	30.7	15.1	11.6	8.0	7.5	4.5	4.5
80°	308.1	246.8	53.3	25.6	16.6	7.0	2.5	0.5	0.0	0.0	0.0
82.5°	90.0	79.9	14.6	11.6	5.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0
2.5°	1788.3	1771.7	1764.2	1789.8	1766.2	1796.4	1773.3	1783.3	1813.0	1826.0	1859.7
5°	1338.5	1321.4	1313.4	1352.1	1350.0	1369.1	1367.1	1384.7	1399.8	1366.1	1400.8
7.5°	932.4	920.8	939.9	970.1	1002.2	991.7	991.7	968.1	976.1	971.1	969.6
10°	709.2	669.5	659.4	658.4	670.5	673.0	659.4	626.8	638.8	642.4	663.5
12.5°	557.9	527.3	480.5	459.4	453.9	458.4	413.7	385.0	398.6	390.5	411.1
15°	400.1	375.0	347.3	323.7	317.2	308.1	259.4	225.2	221.2	222.7	226.2
17.5°	285.5	268.4	268.4	243.3	229.7	202.6	177.9	162.8	161.3	162.8	165.4
20°	210.6	201.6	200.5	194.0	178.9	160.8	143.8	140.7	139.7	142.2	143.2
22.5°	181.4	171.9	163.9	163.4	149.3	134.2	126.2	122.1	122.6	123.6	126.2
25°	162.3	152.3	143.8	138.7	128.7	118.1	110.6	108.6	108.6	110.1	110.6
27.5°	148.8	136.2	128.7	121.6	112.6	103.5	97.0	95.5	94.5	95.5	98.0
30°	139.2	126.7	117.1	106.6	99.5	91.0	85.4	83.4	82.9	83.4	85.4
32.5°	119.1	111.6	104.0	94.5	85.9	80.4	74.4	70.9	70.9	71.9	73.9
35°	90.0	85.9	85.4	82.9	75.9	69.9	62.8	59.3	59.3	61.3	62.3
37.5°	79.4	71.9	70.9	69.9	66.8	58.8	52.3	49.3	48.8	50.3	52.3
40°	72.4	63.8	59.3	58.3	58.8	49.8	42.7	39.7	39.7	40.2	42.2
42.5°	66.8	56.8	48.8	47.7	49.8	41.7	34.7	31.7	31.7	31.7	34.2
45°	62.3	50.8	41.2	36.2	39.2	34.2	28.1	25.1	24.1	25.1	26.1
47.5°	59.3	46.2	36.2	29.2	29.2	27.1	22.6	19.1	18.1	18.6	20.1
50°	56.8	42.2	30.7	23.6	21.1	21.6	17.1	14.6	13.6	13.6	15.1
52.5°	52.8	38.2	26.6	20.1	16.1	14.6	12.6	10.6	10.1	10.6	11.6
55°	47.7	34.7	23.1	16.6	12.6	10.1	9.0	7.5	7.0	7.5	9.0
57.5°	42.2	29.2	18.6	13.1	8.5	6.5	6.0	5.0	4.0	4.5	5.5
59°	38.7	26.1	16.1	10.6	6.5	4.5	4.5	3.5	2.5	3.0	4.5
60°	37.2	24.1	13.6	9.0	5.5	3.5	3.5	2.5	1.5	2.0	3.5
62.5°	31.7	20.1	10.6	5.5	2.5	0.5	1.5	0.5	0.0	0.5	1.5
65°	26.6	16.1	7.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
67.5°	22.1	12.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.6	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.0	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

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CATALOG NUMBER: GALN-SA2B-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0	2211.0
2.5°	1861.7	1933.6	1977.8	2061.3	2146.7	2212.5	2295.0	2368.9	2399.5	2415.6
5°	1436.0	1536.0	1621.0	1748.1	1866.2	2010.0	2155.8	2327.6	2393.5	2410.6
7.5°	1007.8	1109.8	1198.8	1346.0	1514.4	1706.9	1925.0	2143.2	2239.2	2266.3
10°	727.8	836.9	945.4	1092.7	1250.0	1458.6	1685.8	1955.7	2066.3	2087.4
12.5°	459.4	576.5	752.9	934.9	1101.2	1269.1	1506.9	1800.4	1922.5	1961.2
15°	266.4	353.8	487.0	724.3	935.9	1158.0	1417.4	1742.1	1878.8	1918.5
17.5°	178.4	208.6	300.1	481.5	761.0	1055.5	1394.8	1789.8	1941.1	1991.9
20°	150.3	163.9	196.0	293.5	586.1	964.0	1400.8	1919.5	2118.1	2181.4
22.5°	132.2	144.8	165.4	211.1	409.1	850.4	1429.5	2105.0	2361.3	2442.2
25°	116.6	129.2	147.3	174.9	274.9	719.3	1492.3	2376.4	2683.5	2772.5
27.5°	103.5	115.1	130.7	154.3	211.6	573.0	1548.1	2640.8	2977.5	3049.9
30°	91.5	101.0	116.1	134.2	175.9	441.8	1576.2	2872.0	3191.7	3272.1
32.5°	79.4	88.5	103.0	117.6	144.8	336.8	1556.6	3041.9	3399.7	3451.0
35°	67.9	77.4	89.5	103.0	125.2	271.9	1458.6	3232.9	3615.4	3655.6
37.5°	58.3	66.3	78.9	89.5	113.1	217.6	1340.0	3404.8	3857.1	3914.9
40°	49.3	57.3	69.9	79.4	104.0	171.4	1232.9	3595.8	4112.0	4183.3
42.5°	40.2	49.8	60.8	76.4	89.5	130.7	1103.3	3750.6	4303.5	4392.9
45°	32.2	42.7	54.8	75.9	77.9	99.5	978.1	3871.2	4472.8	4553.3
47.5°	25.6	36.2	52.8	70.9	63.8	78.9	906.7	3997.4	4613.6	4677.9
50°	20.6	30.2	55.3	62.3	53.3	66.8	904.7	4138.1	4686.5	4729.2
52.5°	16.6	24.6	46.7	47.7	45.2	58.8	959.0	4296.4	4760.8	4796.0
55°	14.1	20.6	30.7	35.2	40.7	53.3	999.7	4540.2	4938.3	4971.4
57.5°	11.1	17.6	23.6	28.1	36.2	48.8	1005.2	4728.2	5162.9	5184.6
59°	9.5	15.1	21.1	25.1	33.2	45.7	982.6	4739.7	5177.5	5212.2
60°	8.0	13.6	18.6	23.6	30.7	43.2	958.0	4655.8	5123.2	5161.9
62.5°	6.0	10.6	13.6	19.1	25.1	37.2	841.4	4362.8	4915.7	4942.8
65°	4.0	7.5	10.1	14.1	19.6	32.2	685.6	3982.8	4595.0	4655.8
67.5°	2.5	5.5	8.0	10.6	16.1	27.1	488.5	3415.3	4146.1	4185.3
70°	1.5	3.5	6.0	8.5	12.6	21.6	290.0	2699.6	3449.5	3457.5
72.5°	1.0	2.5	4.0	6.0	10.1	19.6	140.7	1759.7	2518.6	2614.6
75°	0.5	1.5	2.5	4.5	8.0	16.1	67.4	1175.6	1832.6	1860.2
77.5°	0.0	0.5	1.5	3.0	6.0	12.6	39.2	772.0	1249.5	1278.2
80°	0.0	0.0	1.0	2.5	4.5	8.0	23.6	455.4	757.0	771.0
82.5°	0.0	0.0	0.5	2.0	3.0	6.0	12.1	200.0	495.6	500.6
85°	0.0	0.0	0.5	2.0	2.5	4.0	4.5	27.1	220.1	224.2
87.5°	0.0	0.0	0.5	2.5	2.5	2.5	2.5	1.5	18.6	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)