

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: P531381

Luminaire Tested: **GALN-SA6C-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531381
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-SA6C-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 18314 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 321
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

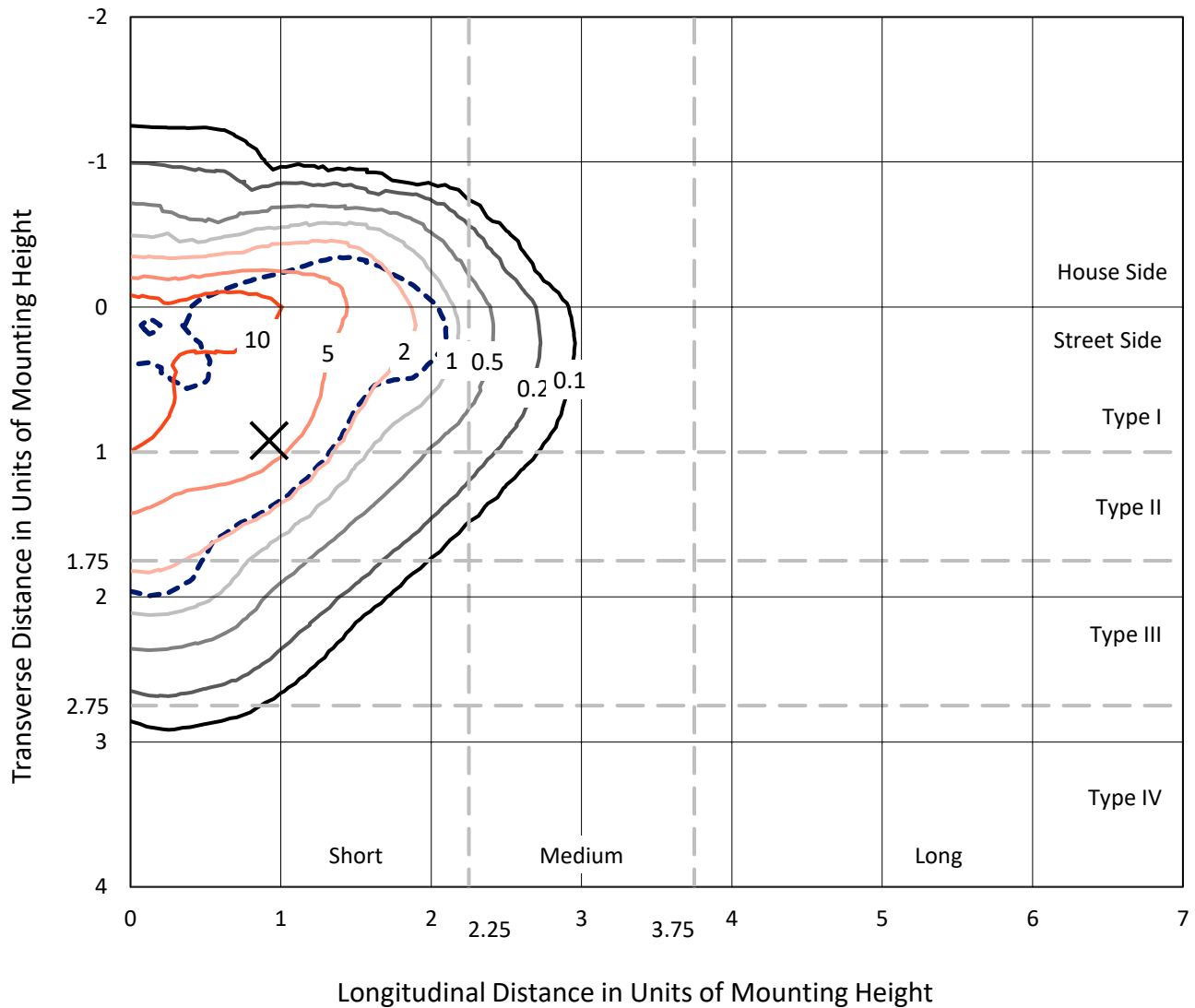


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Iso-Footcandle Lines of Horizontal Illumination

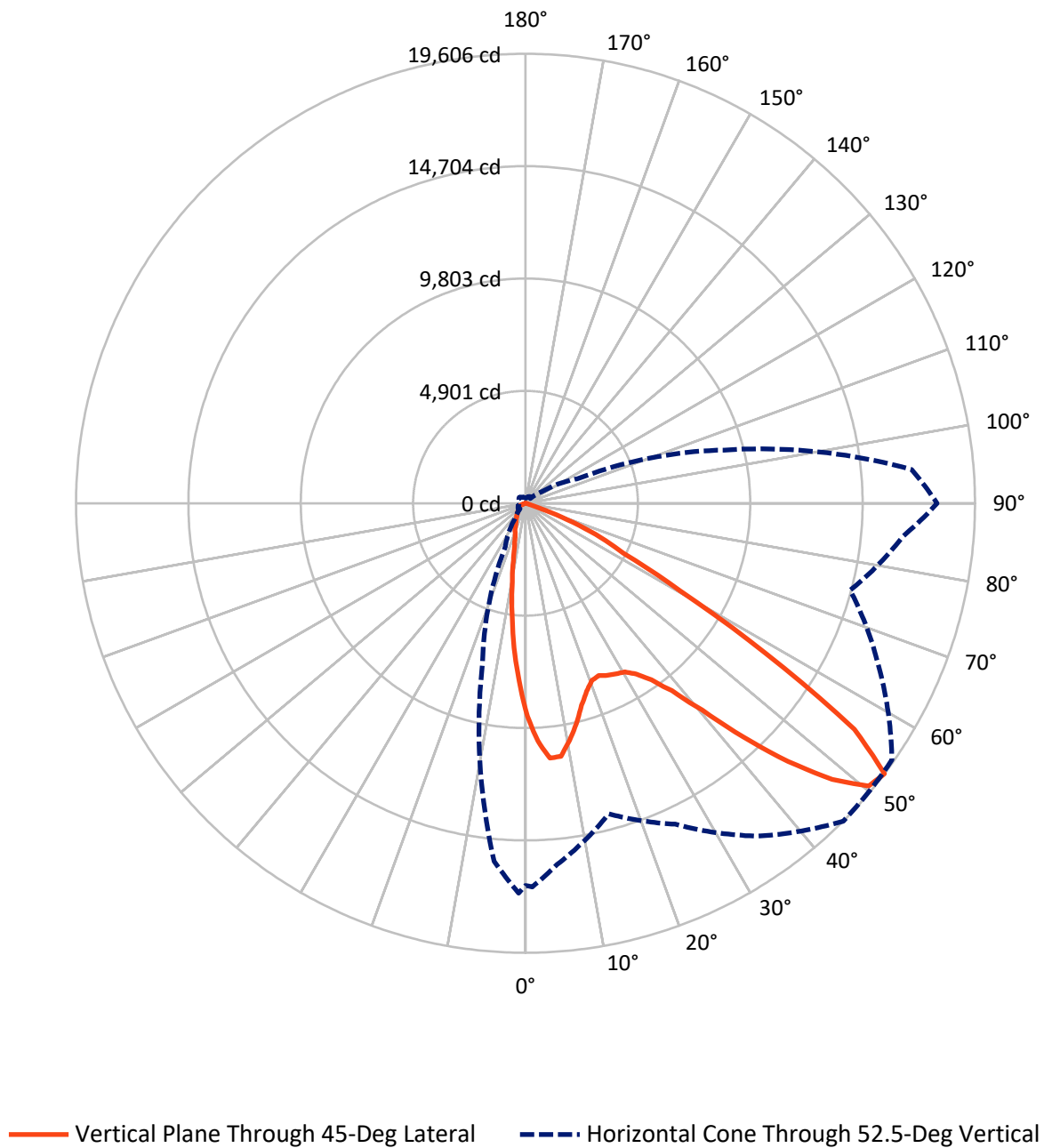
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	3716.8	0.0	3716.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	14597.2	0.0	14597.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	18314.0	0.0	18314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.2	3.7
10°-20°	1336.1	7.3
20°-30°	2033.4	11.1
30°-40°	3039.1	16.6
40°-50°	4328.0	23.6
50°-60°	4652.4	25.4
60°-70°	2061.6	11.3
70°-80°	166.8	0.9
80°-90°	19.4	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°	18314.0	100.0
0°-180°	18314.0	100.0

Coefficient of Utilization



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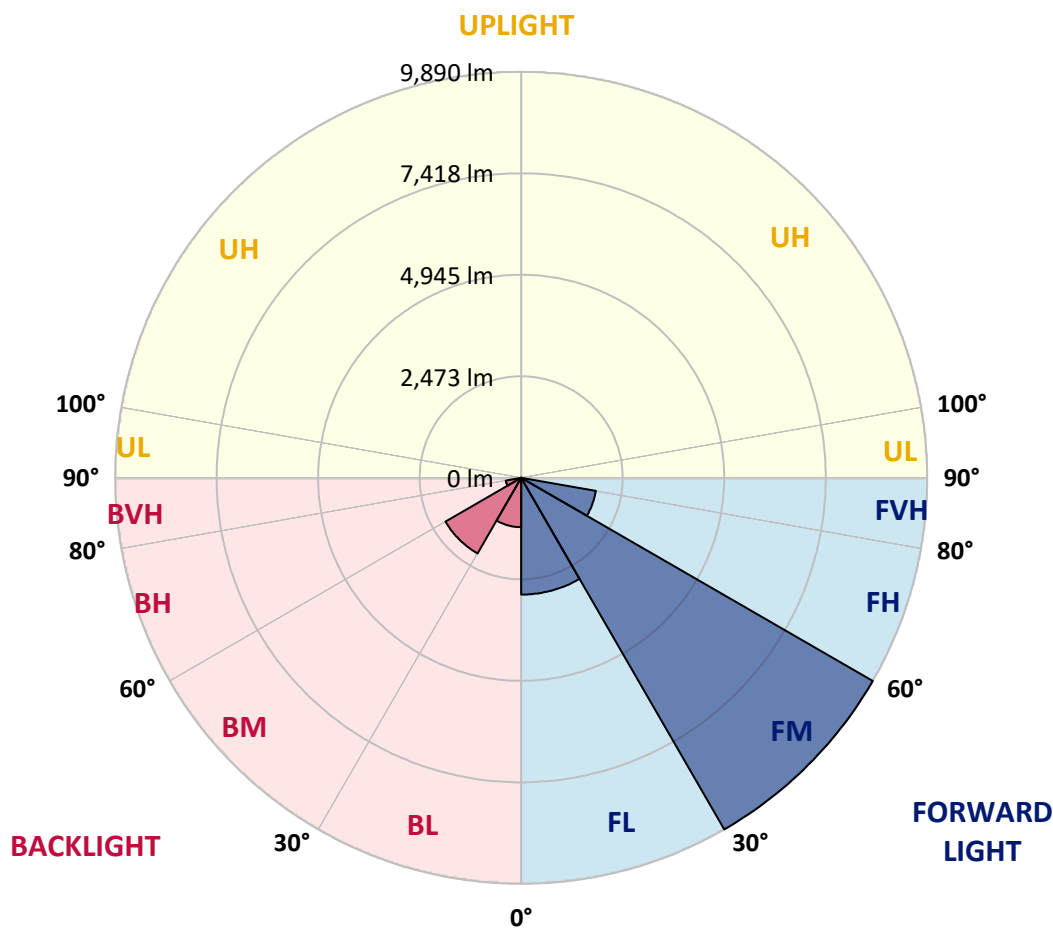
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2844.5	15.5			
FM	(30°-60°)	9890.1	54.0			
FH	(60°-80°)	1848.1	10.1			G2/5000
FVH	(80°-90°)	14.4	0.1			G1/100
BL	(0°-30°)	1202.2	6.6	B3/2500		
BM	(30°-60°)	2129.3	11.6	B2/2500		
BH	(60°-80°)	380.3	2.1	B1/500		G1/500
BVH	(80°-90°)	5.0	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°	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0
2.5°	9826.4	9855.2	10013.7	10211.8	10316.2	10554.0	10388.3	10431.5	10341.4	10024.5	9775.9
5°	9527.4	9523.8	9725.5	10215.4	10680.0	11151.9	11166.3	10914.2	10471.1	9984.8	9289.7
7.5°	8626.9	8767.4	8976.3	9757.9	10618.8	10971.8	11141.1	10845.7	10164.9	9469.8	8716.9
10°	7946.1	8018.1	8371.1	9314.9	9945.2	10417.1	10521.5	10352.3	9830.0	8961.9	8119.0
12.5°	7553.5	7589.5	8003.7	8796.2	9462.5	9811.9	9862.4	9941.6	9567.0	8752.9	7740.8
15°	7557.1	7585.9	8144.2	8807.0	9069.9	8976.3	9142.0	9138.4	9300.5	8713.3	8057.8
17.5°	8101.0	8133.4	8637.7	8965.5	8850.2	8630.5	8619.7	8785.4	9127.6	9206.8	8536.8
20°	9037.5	9113.2	9484.2	9466.2	8817.8	8374.7	8252.3	8378.3	9174.4	9624.6	9502.2
22.5°	10298.2	10402.7	10662.0	10164.9	8965.5	8201.8	8162.2	8407.2	9484.2	10557.6	10597.2
25°	11760.6	11937.1	12063.2	11425.7	9491.4	8500.8	8313.5	8734.9	9902.0	11569.7	11991.2
27.5°	12729.6	12913.3	12884.5	11973.2	9844.4	8580.1	8421.6	8814.2	10265.8	11811.1	12718.8
30°	13486.0	13597.7	13799.4	12268.5	10197.4	8803.4	8533.2	9149.2	10384.7	12228.9	13597.7
32.5°	14368.5	14444.2	14458.6	12790.8	10741.3	9084.3	8879.0	9567.0	10910.6	12628.7	14375.7
35°	15258.2	15369.9	15135.8	13435.6	11076.3	9606.6	9455.3	10291.0	11332.0	13043.0	15233.0
37.5°	16223.6	16281.2	15740.9	13702.1	11555.3	10456.7	10373.9	11072.7	12063.2	13792.2	16183.9
40°	17034.0	17088.1	16385.7	14029.9	12059.6	11645.4	11857.9	12563.9	13057.4	14278.5	16659.4
42.5°	17484.3	17610.4	16601.8	13849.8	13071.8	12992.5	13936.3	14184.8	14210.0	14415.3	17084.5
45°	17606.8	17549.1	16245.2	13997.5	13957.9	15207.8	16065.1	16392.9	15355.5	14667.5	17192.5
47.5°	17041.2	17116.9	15719.3	13867.8	15121.3	16886.3	17995.8	18604.5	16209.2	14447.8	16926.0
50°	16583.8	16486.5	15550.0	13774.2	15434.7	17678.8	19389.8	19526.6	16994.4	14717.9	16634.2
52.5°	16673.8	16735.1	15820.1	14022.7	15441.9	17725.6	19605.9	19512.2	17019.6	14656.7	16529.7
55°	16864.7	16594.6	15704.9	13475.2	14408.1	16418.1	17401.4	17257.4	15708.5	14004.7	16274.0
57.5°	14552.2	14970.1	14440.6	12030.8	11825.5	12369.4	12351.4	12794.4	11717.4	12052.4	14815.2
60°	11811.1	11883.1	12081.2	10291.0	8183.8	7996.5	7737.2	7456.2	7884.9	10305.4	13475.2
62.5°	10388.3	10301.8	11007.8	9361.7	5777.7	4837.5	4794.3	4967.2	6083.8	9830.0	12639.5
65°	7549.9	7657.9	8169.4	7265.3	4336.9	3692.1	3627.3	4138.7	4924.0	7877.7	9646.3
67.5°	4610.6	4819.5	4866.4	4480.9	2942.9	2337.7	2244.1	2708.7	3555.2	5096.9	5655.2
70°	2128.8	2380.9	2618.7	2445.8	1703.8	961.7	907.7	1138.2	1793.8	2932.1	3000.5
72.5°	644.8	648.4	907.7	947.3	551.1	216.1	190.9	252.1	608.7	968.9	1019.4
75°	46.8	50.4	122.5	140.5	104.5	54.0	57.6	68.4	129.7	216.1	162.1
77.5°	3.6	3.6	3.6	18.0	32.4	36.0	46.8	54.0	68.4	79.2	72.0
80°	3.6	0.0	3.6	14.4	25.2	36.0	43.2	50.4	54.0	61.2	54.0
82.5°	0.0	0.0	0.0	10.8	25.2	36.0	39.6	54.0	61.2	72.0	61.2
85°	0.0	0.0	0.0	10.8	25.2	39.6	36.0	18.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0
2.5°	9819.2	9678.7	9358.1	9196.0	8814.2	8760.2	8385.5	8324.3	8198.2	8129.8	7964.1
5°	8983.5	8814.2	8291.9	7852.4	7340.9	6984.3	6710.6	6462.1	6318.0	6184.7	6245.9
7.5°	8302.7	7809.2	7229.3	6494.5	5903.7	5521.9	5104.1	4761.9	4560.2	4423.3	4455.7
10°	7589.5	7268.9	6462.1	5637.2	4924.0	4653.8	4326.0	4063.1	3778.5	3533.6	3418.3
12.5°	7366.2	6890.7	5878.5	5039.2	4498.9	4236.0	3861.4	3558.8	3195.0	2896.0	2791.6
15°	7405.8	6948.3	5720.0	4823.1	4185.6	3731.7	3285.1	2910.4	2510.6	2301.7	2193.6
17.5°	8050.6	7258.1	5824.5	4596.2	3749.7	3119.4	2568.3	2092.8	1793.8	1577.7	1530.9
20°	8843.0	7928.1	6047.8	4430.5	3393.1	2481.8	1876.7	1466.0	1217.5	1181.5	1170.7
22.5°	10002.9	9023.1	6526.9	4318.8	2957.3	1934.3	1285.9	1066.2	997.8	990.6	994.2
25°	11623.8	10395.5	7049.2	4225.2	2629.5	1491.2	1051.8	904.1	882.5	871.7	889.7
27.5°	12326.2	11223.9	7326.5	4023.5	2330.5	1343.6	1037.4	896.9	835.7	817.7	828.5
30°	13194.3	11775.1	7762.4	3677.7	1891.1	1105.8	968.9	976.2	947.3	857.3	828.5
32.5°	14346.9	12463.0	7982.1	3432.7	1689.4	914.9	709.6	652.0	727.6	742.0	767.2
35°	15085.3	13161.8	8093.8	3288.7	1584.9	781.6	601.5	547.5	529.5	533.1	547.5
37.5°	16457.7	14105.6	8234.3	3137.4	1505.7	680.8	543.9	493.5	468.3	468.3	482.7
40°	17279.0	14854.8	8425.2	3054.5	1426.4	619.6	493.5	450.3	428.6	428.6	435.8
42.5°	17484.3	15225.8	8360.3	3025.7	1336.4	605.1	450.3	417.8	392.6	389.0	385.4
45°	17851.7	15791.3	8371.1	2993.3	1242.7	551.1	425.0	389.0	353.0	349.4	345.8
47.5°	18255.1	16198.4	8392.7	2867.2	1152.7	461.1	443.1	360.2	317.0	309.8	309.8
50°	17909.3	16522.5	8580.1	2741.1	1037.4	374.6	435.8	338.6	281.0	270.2	273.8
52.5°	17952.5	16904.4	8976.3	2564.6	893.3	299.0	353.0	320.6	255.7	237.7	241.3
55°	17261.0	16500.9	9030.3	2377.3	698.8	230.5	270.2	281.0	216.1	208.9	208.9
57.5°	14858.4	13972.3	7967.7	1927.1	461.1	190.9	194.5	244.9	187.3	180.1	183.7
60°	12715.2	11216.7	6411.6	1271.5	288.2	151.3	140.5	248.5	165.7	162.1	172.9
62.5°	11591.4	9217.6	4862.7	788.8	198.1	115.3	97.3	201.7	144.1	144.1	158.5
65°	8374.7	6191.9	2827.6	414.2	140.5	90.1	72.0	115.3	118.9	122.5	129.7
67.5°	5186.9	3126.6	1192.3	201.7	93.7	61.2	46.8	72.0	79.2	79.2	86.4
70°	2561.0	1246.3	396.2	115.3	72.0	50.4	32.4	39.6	39.6	36.0	39.6
72.5°	792.4	374.6	100.9	72.0	50.4	32.4	18.0	14.4	7.2	0.0	3.6
75°	90.1	72.0	64.8	50.4	32.4	14.4	3.6	0.0	0.0	0.0	0.0
77.5°	54.0	61.2	61.2	50.4	32.4	10.8	0.0	0.0	0.0	0.0	0.0
80°	43.2	46.8	50.4	46.8	28.8	14.4	0.0	0.0	0.0	0.0	0.0
82.5°	54.0	61.2	68.4	61.2	39.6	18.0	7.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.8	3.6	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°	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0
2.5°	7895.7	7816.4	7928.1	7762.4	7758.8	7762.4	7715.6	7672.3	7740.8	7924.5	7942.5
5°	6026.2	6195.5	6249.5	6426.0	6328.8	6184.7	6213.5	6116.3	6354.0	6458.5	6375.6
7.5°	4387.3	4376.5	4740.3	4761.9	4808.7	4812.3	4805.1	4614.2	4419.7	4462.9	4592.6
10°	3403.9	3220.2	3396.7	3378.7	3494.0	3461.6	3508.4	3303.1	3371.5	3371.5	3454.4
12.5°	2773.6	2579.1	2546.6	2499.8	2546.6	2564.6	2582.7	2543.0	2658.3	2712.3	2770.0
15°	2118.0	2009.9	1981.1	1891.1	1905.5	1955.9	1999.1	2017.1	1981.1	2064.0	2071.2
17.5°	1538.1	1534.5	1552.5	1548.9	1534.5	1523.7	1520.1	1473.2	1458.8	1466.0	1494.8
20°	1167.1	1195.9	1257.1	1318.3	1350.8	1311.1	1257.1	1177.9	1145.4	1152.7	1156.3
22.5°	997.8	1041.0	1123.8	1192.3	1224.7	1152.7	1055.4	987.0	972.5	968.9	965.3
25°	904.1	954.5	1015.8	1037.4	1033.8	990.6	918.5	889.7	882.5	875.3	842.9
27.5°	853.7	871.7	882.5	907.7	918.5	889.7	871.7	828.5	821.3	821.3	799.7
30°	824.9	814.1	828.5	810.5	824.9	803.3	806.9	806.9	788.8	796.0	796.0
32.5°	767.2	770.8	770.8	734.8	745.6	720.4	745.6	767.2	770.8	774.4	803.3
35°	561.9	626.8	659.2	659.2	670.0	652.0	648.4	623.2	590.7	558.3	543.9
37.5°	493.5	518.7	561.9	587.1	605.1	590.7	558.3	518.7	500.7	486.3	471.9
40°	439.4	461.1	489.9	518.7	554.7	536.7	486.3	468.3	446.7	446.7	432.2
42.5°	396.2	407.0	425.0	468.3	507.9	471.9	435.8	421.4	410.6	407.0	403.4
45°	356.6	360.2	378.2	414.2	461.1	425.0	389.0	371.0	374.6	378.2	374.6
47.5°	320.6	327.8	338.6	381.8	410.6	392.6	353.0	342.2	342.2	342.2	345.8
50°	277.4	295.4	317.0	353.0	374.6	363.8	331.4	317.0	309.8	309.8	313.4
52.5°	248.5	262.9	291.8	335.0	363.8	345.8	313.4	291.8	277.4	273.8	281.0
55°	216.1	241.3	288.2	320.6	360.2	342.2	306.2	281.0	255.7	252.1	252.1
57.5°	194.5	234.1	277.4	317.0	349.4	335.0	306.2	273.8	241.3	237.7	237.7
60°	183.7	226.9	270.2	306.2	349.4	327.8	302.6	266.6	230.5	230.5	226.9
62.5°	172.9	212.5	255.7	291.8	335.0	317.0	291.8	255.7	219.7	219.7	212.5
65°	144.1	183.7	212.5	244.9	291.8	273.8	248.5	223.3	194.5	187.3	190.9
67.5°	100.9	126.1	154.9	187.3	216.1	208.9	198.1	180.1	154.9	151.3	147.7
70°	50.4	68.4	93.7	126.1	151.3	144.1	136.9	122.5	108.1	104.5	104.5
72.5°	7.2	21.6	39.6	57.6	79.2	82.8	79.2	75.6	72.0	68.4	72.0
75°	0.0	0.0	0.0	14.4	32.4	39.6	46.8	54.0	54.0	46.8	57.6
77.5°	0.0	0.0	0.0	0.0	3.6	18.0	36.0	46.8	57.6	50.4	68.4
80°	0.0	0.0	0.0	0.0	3.6	21.6	36.0	50.4	57.6	50.4	72.0
82.5°	0.0	0.0	0.0	0.0	3.6	25.2	36.0	46.8	54.0	50.4	64.8
85°	0.0	0.0	0.0	0.0	10.8	21.6	14.4	7.2	3.6	3.6	10.8
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-SA6C-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0	9286.0
2.5°	8043.3	8299.1	8572.8	8677.3	9001.5	9246.4	9412.1	9768.7	9822.8	9826.4
5°	6462.1	6591.7	7060.0	7279.7	7762.4	8137.0	8536.8	9113.2	9498.6	9527.4
7.5°	4592.6	4952.8	5150.9	5723.6	6318.0	6905.1	7499.4	8169.4	8616.1	8626.9
10°	3695.7	3929.8	4282.8	4711.5	5212.1	5810.1	6602.5	7380.6	7834.4	7946.1
12.5°	2975.3	3385.9	3789.3	4232.4	4614.2	5064.5	5918.1	6955.5	7330.1	7553.5
15°	2290.9	2665.5	3141.0	3659.7	4091.9	4693.5	5666.0	6851.1	7481.4	7557.1
17.5°	1689.4	2024.3	2463.8	2953.7	3602.0	4455.7	5709.2	7380.6	7974.9	8101.0
20°	1213.9	1408.4	1754.2	2323.3	3148.2	4178.4	5752.5	7917.3	8821.4	9037.5
22.5°	961.7	1041.0	1267.9	1772.2	2640.3	3886.6	6058.6	8943.9	9984.8	10298.2
25°	835.7	878.9	987.0	1397.6	2319.7	3857.8	6548.5	10175.8	11533.7	11760.6
27.5°	806.9	814.1	907.7	1282.3	2146.8	3666.9	6735.8	11051.0	12499.1	12729.6
30°	850.1	965.3	972.5	1084.2	1826.2	3288.7	6833.1	11897.5	13316.7	13486.0
32.5°	734.8	698.8	724.0	839.3	1606.5	3068.9	7016.8	12635.9	14249.7	14368.5
35°	511.5	536.7	594.3	727.6	1404.8	2838.4	7063.6	13450.0	15135.8	15258.2
37.5°	471.9	486.3	533.1	619.6	1235.5	2708.7	6998.8	14044.3	16054.3	16223.6
40°	439.4	457.5	482.7	561.9	1109.4	2564.6	6908.7	14581.0	16616.2	17034.0
42.5°	414.2	428.6	450.3	536.7	1001.4	2420.6	6782.6	15337.5	17120.5	17484.3
45°	385.4	407.0	432.2	522.3	940.1	2323.3	6689.0	15290.6	17412.2	17606.8
47.5°	356.6	392.6	421.4	486.3	922.1	2276.5	6728.6	15114.1	17174.5	17041.2
50°	327.8	374.6	425.0	403.4	878.9	2182.8	6775.4	15355.5	16609.0	16583.8
52.5°	302.6	356.6	396.2	331.4	781.6	2092.8	7229.3	15672.5	17008.8	16673.8
55°	266.6	320.6	317.0	266.6	634.0	2024.3	7585.9	15679.7	16738.7	16864.7
57.5°	241.3	284.6	248.5	223.3	468.3	1693.0	7006.0	13147.4	14328.9	14552.2
60°	223.3	277.4	187.3	176.5	306.2	1221.1	6116.3	10183.0	11389.6	11811.1
62.5°	205.3	262.9	147.7	144.1	212.5	868.1	5028.4	8522.4	9815.5	10388.3
65°	180.1	187.3	118.9	111.7	151.3	468.3	3061.7	5867.7	7337.3	7549.9
67.5°	147.7	144.1	97.3	90.1	100.9	226.9	1350.8	2939.3	4254.0	4610.6
70°	118.9	118.9	82.8	72.0	72.0	104.5	353.0	1170.7	1923.5	2128.8
72.5°	86.4	90.1	64.8	57.6	54.0	50.4	57.6	234.1	504.3	644.8
75°	75.6	79.2	64.8	50.4	39.6	32.4	25.2	21.6	28.8	46.8
77.5°	82.8	82.8	68.4	46.8	36.0	25.2	14.4	7.2	7.2	3.6
80°	104.5	108.1	90.1	61.2	43.2	28.8	18.0	7.2	3.6	3.6
82.5°	111.7	122.5	100.9	75.6	54.0	32.4	18.0	3.6	0.0	0.0
85°	28.8	46.8	79.2	68.4	54.0	32.4	18.0	3.6	0.0	0.0
87.5°	0.0	3.6	10.8	10.8	14.4	14.4	10.8	3.6	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)