

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: P529743

Luminaire Tested: **GALN-SA4D-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529743
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-SA4D-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA 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: 13444 lumens
Efficiency: N/A
Efficacy: 54.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

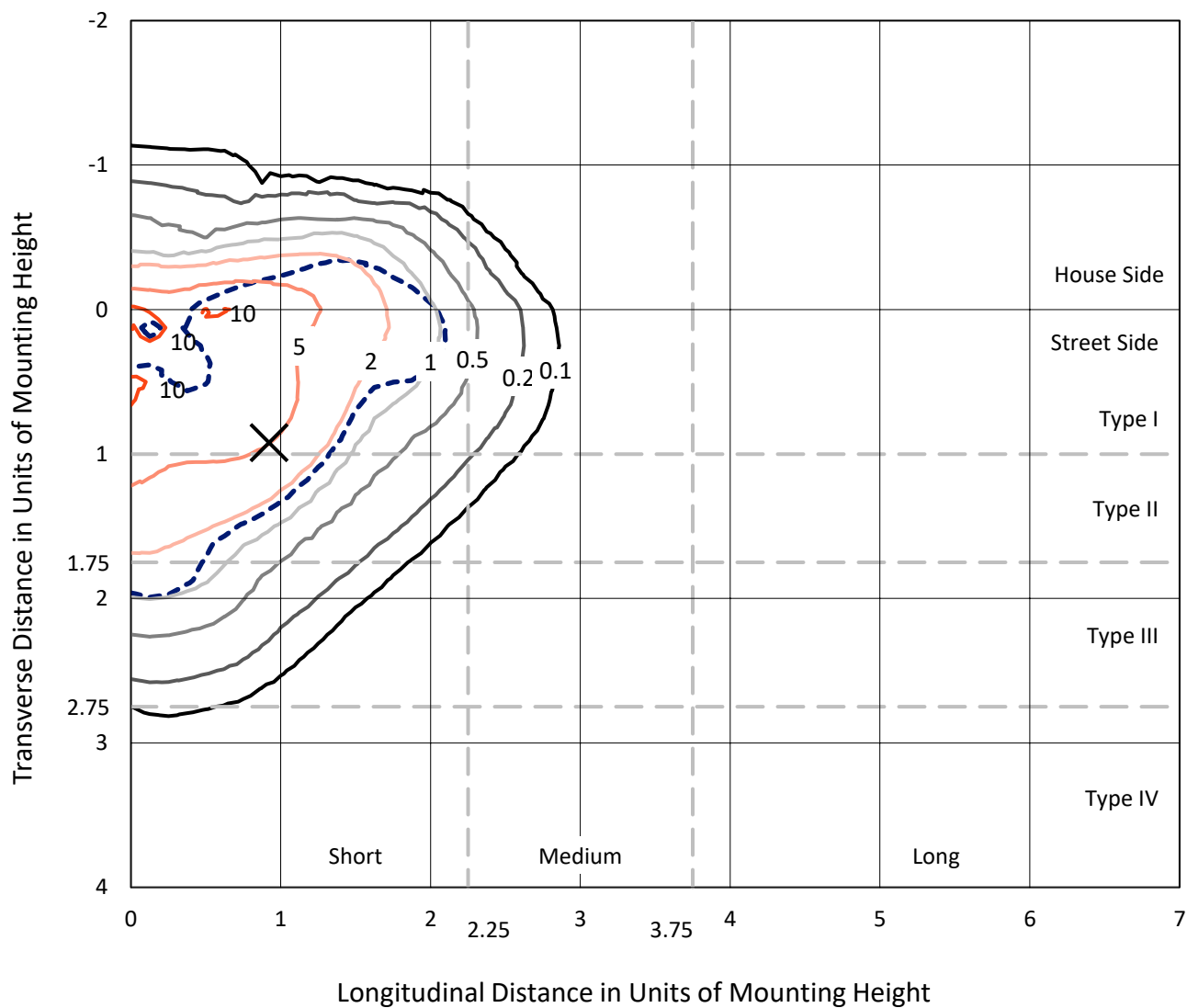
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

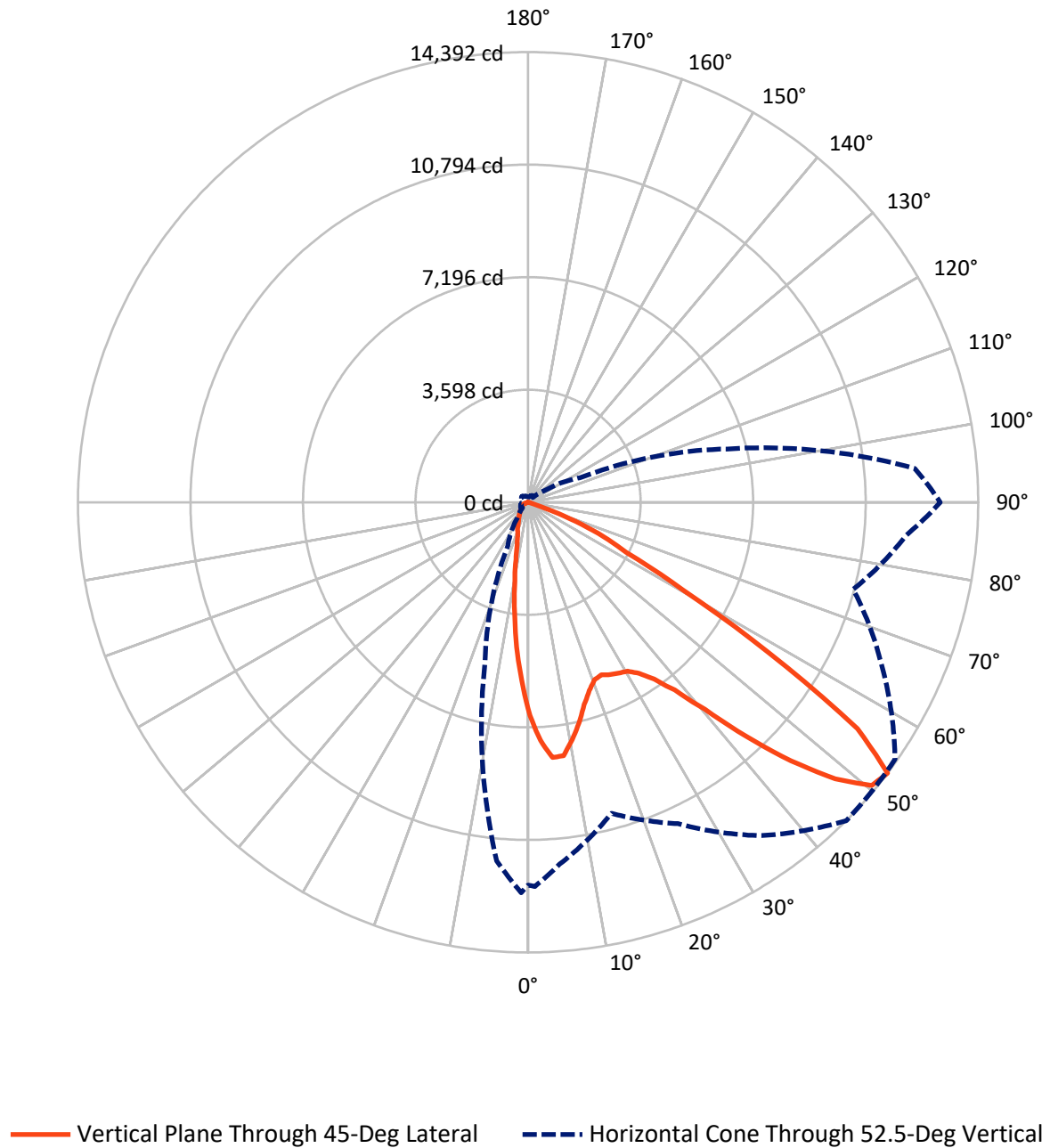
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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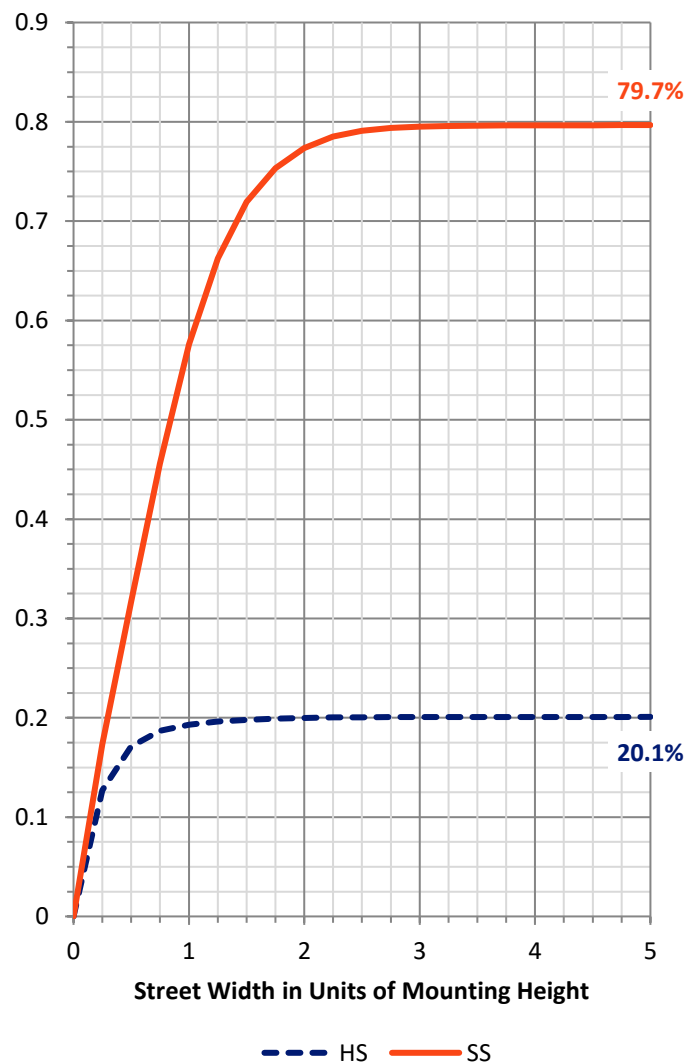
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2728.5	0.0	2728.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	10715.5	0.0	10715.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	13444.0	0.0	13444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.1	3.7
10°-20°	980.8	7.3
20°-30°	1492.7	11.1
30°-40°	2230.9	16.6
40°-50°	3177.1	23.6
50°-60°	3415.3	25.4
60°-70°	1513.4	11.3
70°-80°	122.4	0.9
80°-90°	14.3	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°	13444.0	100.0
0°-180°	13444.0	100.0

Coefficient of Utilization



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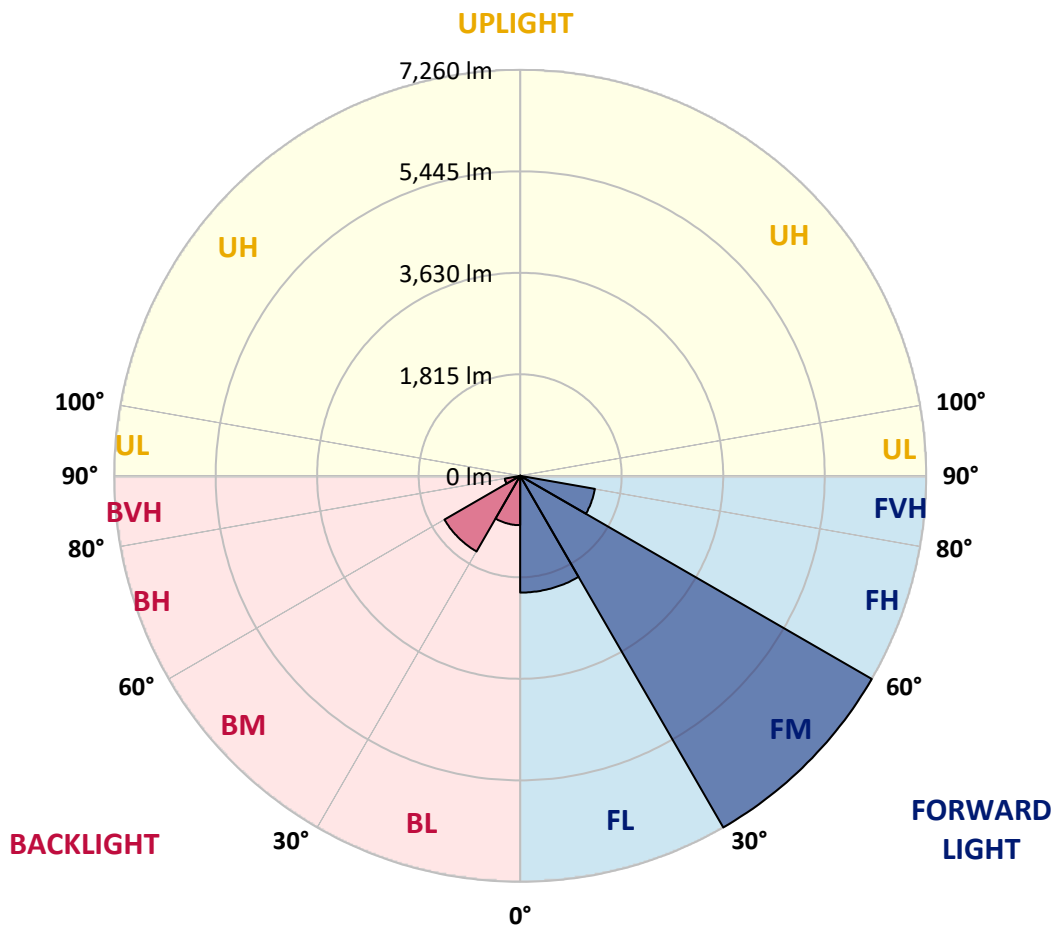
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2088.1	15.5			
FM	(30°-60°)	7260.2	54.0			
FH	(60°-80°)	1356.7	10.1			G1/1800
FVH	(80°-90°)	10.6	0.1			G1/100
BL	(0°-30°)	882.5	6.6	B2/1000		
BM	(30°-60°)	1563.1	11.6	B2/2500		
BH	(60°-80°)	279.2	2.1	B1/500		G1/500
BVH	(80°-90°)	3.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7
2.5°	7213.4	7234.5	7350.9	7496.3	7573.0	7747.5	7625.9	7657.6	7591.5	7358.8	7176.3
5°	6993.9	6991.2	7139.3	7498.9	7840.0	8186.4	8197.0	8011.9	7686.7	7329.7	6819.4
7.5°	6332.8	6436.0	6589.3	7163.1	7795.1	8054.2	8178.5	7961.7	7461.9	6951.6	6399.0
10°	5833.1	5886.0	6145.1	6837.9	7300.6	7647.0	7723.7	7599.4	7216.0	6578.8	5960.0
12.5°	5544.9	5571.3	5875.4	6457.1	6946.3	7202.8	7239.8	7298.0	7023.0	6425.4	5682.4
15°	5547.5	5568.7	5978.5	6465.1	6658.1	6589.3	6711.0	6708.3	6827.3	6396.3	5915.1
17.5°	5946.8	5970.6	6340.8	6581.4	6496.8	6335.5	6327.6	6449.2	6700.4	6758.6	6266.7
20°	6634.3	6689.8	6962.2	6948.9	6473.0	6147.8	6057.8	6150.4	6734.8	7065.3	6975.4
22.5°	7559.8	7636.4	7826.8	7461.9	6581.4	6020.8	5991.7	6171.5	6962.2	7750.1	7779.2
25°	8633.3	8762.9	8855.4	8387.4	6967.5	6240.3	6102.8	6412.2	7268.9	8493.2	8802.5
27.5°	9344.6	9479.4	9458.3	8789.3	7226.6	6298.5	6182.1	6470.3	7536.0	8670.3	9336.7
30°	9899.9	9981.8	10129.9	9006.1	7485.7	6462.4	6264.1	6716.3	7623.2	8977.0	9981.8
32.5°	10547.7	10603.2	10613.8	9389.5	7885.0	6668.7	6517.9	7023.0	8009.3	9270.5	10553.0
35°	11200.8	11282.8	11110.9	9862.8	8130.9	7052.1	6941.0	7554.5	8318.6	9574.6	11182.3
37.5°	11909.5	11951.8	11555.1	10058.5	8482.6	7676.1	7615.3	8128.3	8855.4	10124.6	11880.4
40°	12504.4	12544.1	12028.4	10299.1	8852.8	8548.7	8704.7	9222.9	9585.2	10481.6	12229.4
42.5°	12834.9	12927.5	12187.1	10166.9	9595.8	9537.6	10230.4	10412.8	10431.3	10582.1	12541.4
45°	12924.8	12882.5	11925.3	10275.3	10246.3	11163.8	11793.1	12033.7	11272.2	10767.2	12620.7
47.5°	12509.7	12565.2	11539.3	10180.1	11100.3	12396.0	13210.4	13657.3	11898.9	10605.9	12425.1
50°	12173.9	12102.5	11415.0	10111.4	11330.4	12977.7	14233.7	14334.2	12475.3	10804.2	12210.9
52.5°	12240.0	12284.9	11613.3	10293.8	11335.7	13012.1	14392.3	14323.6	12493.8	10759.2	12134.2
55°	12380.1	12181.8	11528.7	9891.9	10576.8	12052.2	12774.1	12668.3	11531.3	10280.6	11946.5
57.5°	10682.5	10989.3	10600.6	8831.6	8680.9	9080.2	9066.9	9392.2	8601.6	8847.5	10875.6
60°	8670.3	8723.2	8868.6	7554.5	6007.6	5870.1	5679.7	5473.5	5788.1	7565.0	9891.9
62.5°	7625.9	7562.4	8080.7	6872.3	4241.3	3551.2	3519.4	3646.3	4466.0	7216.0	9278.5
65°	5542.2	5621.6	5997.0	5333.3	3183.6	2710.3	2662.7	3038.2	3614.6	5782.9	7081.2
67.5°	3384.6	3537.9	3572.3	3289.4	2160.3	1716.1	1647.3	1988.4	2609.8	3741.5	4151.4
70°	1562.7	1747.8	1922.3	1795.4	1250.7	706.0	666.3	835.6	1316.8	2152.4	2202.6
72.5°	473.3	476.0	666.3	695.4	404.6	158.7	140.1	185.1	446.9	711.3	748.3
75°	34.4	37.0	89.9	103.1	76.7	39.7	42.3	50.2	95.2	158.7	119.0
77.5°	2.6	2.6	2.6	13.2	23.8	26.4	34.4	39.7	50.2	58.2	52.9
80°	2.6	0.0	2.6	10.6	18.5	26.4	31.7	37.0	39.7	45.0	39.7
82.5°	0.0	0.0	0.0	7.9	18.5	26.4	29.1	39.7	45.0	52.9	45.0
85°	0.0	0.0	0.0	7.9	18.5	29.1	26.4	13.2	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°	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7
2.5°	7208.1	7105.0	6869.6	6750.6	6470.3	6430.7	6155.7	6110.7	6018.2	5967.9	5846.3
5°	6594.6	6470.3	6086.9	5764.3	5388.9	5127.1	4926.1	4743.7	4637.9	4540.1	4585.0
7.5°	6094.9	5732.6	5306.9	4767.5	4333.8	4053.5	3746.8	3495.6	3347.5	3247.1	3270.9
10°	5571.3	5336.0	4743.7	4138.2	3614.6	3416.3	3175.7	2982.7	2773.8	2594.0	2509.3
12.5°	5407.4	5058.3	4315.3	3699.2	3302.6	3109.6	2834.6	2612.5	2345.4	2125.9	2049.3
15°	5436.5	5100.7	4199.0	3540.6	3072.6	2739.4	2411.5	2136.5	1843.0	1689.6	1610.3
17.5°	5909.8	5328.1	4275.7	3374.0	2752.6	2289.9	1885.3	1536.3	1316.8	1158.2	1123.8
20°	6491.5	5819.9	4439.6	3252.4	2490.8	1821.8	1377.6	1076.2	893.7	867.3	859.4
22.5°	7342.9	6623.7	4791.3	3170.4	2170.9	1419.9	944.0	782.7	732.4	727.2	729.8
25°	8532.8	7631.1	5174.7	3101.6	1930.3	1094.7	772.1	663.7	647.8	639.9	653.1
27.5°	9048.4	8239.3	5378.3	2953.6	1710.8	986.3	761.5	658.4	613.5	600.2	608.2
30°	9685.7	8643.9	5698.2	2699.7	1388.2	811.8	711.3	716.6	695.4	629.3	608.2
32.5°	10531.8	9148.9	5859.5	2519.9	1240.1	671.6	520.9	478.6	534.1	544.7	563.2
35°	11073.9	9661.9	5941.5	2414.1	1163.4	573.8	441.6	401.9	388.7	391.3	401.9
37.5°	12081.3	10354.7	6044.6	2303.1	1105.3	499.8	399.3	362.3	343.7	343.7	354.3
40°	12684.2	10904.7	6184.8	2242.3	1047.1	454.8	362.3	330.5	314.7	314.7	319.9
42.5°	12834.9	11177.0	6137.2	2221.1	981.0	444.2	330.5	306.7	288.2	285.6	282.9
45°	13104.6	11592.1	6145.1	2197.3	912.2	404.6	312.0	285.6	259.1	256.5	253.8
47.5°	13400.8	11890.9	6161.0	2104.8	846.1	338.5	325.2	264.4	232.7	227.4	227.4
50°	13146.9	12128.9	6298.5	2012.2	761.5	275.0	319.9	248.6	206.2	198.3	201.0
52.5°	13178.7	12409.2	6589.3	1882.7	655.8	219.5	259.1	235.3	187.7	174.5	177.2
55°	12671.0	12113.1	6629.0	1745.2	513.0	169.2	198.3	206.2	158.7	153.4	153.4
57.5°	10907.3	10256.8	5849.0	1414.6	338.5	140.1	142.8	179.8	137.5	132.2	134.9
60°	9334.0	8234.0	4706.7	933.4	211.5	111.1	103.1	182.4	121.6	119.0	126.9
62.5°	8509.0	6766.5	3569.7	579.1	145.4	84.6	71.4	148.1	105.8	105.8	116.3
65°	6147.8	4545.4	2075.7	304.1	103.1	66.1	52.9	84.6	87.3	89.9	95.2
67.5°	3807.6	2295.2	875.2	148.1	68.7	45.0	34.4	52.9	58.2	58.2	63.5
70°	1880.0	914.9	290.9	84.6	52.9	37.0	23.8	29.1	29.1	26.4	29.1
72.5°	581.7	275.0	74.0	52.9	37.0	23.8	13.2	10.6	5.3	0.0	2.6
75°	66.1	52.9	47.6	37.0	23.8	10.6	2.6	0.0	0.0	0.0	0.0
77.5°	39.7	45.0	45.0	37.0	23.8	7.9	0.0	0.0	0.0	0.0	0.0
80°	31.7	34.4	37.0	34.4	21.2	10.6	0.0	0.0	0.0	0.0	0.0
82.5°	39.7	45.0	50.2	45.0	29.1	13.2	5.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	7.9	2.6	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°	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7
2.5°	5796.1	5737.9	5819.9	5698.2	5695.6	5698.2	5663.9	5632.1	5682.4	5817.2	5830.4
5°	4423.7	4548.0	4587.7	4717.2	4645.8	4540.1	4561.2	4489.8	4664.4	4741.0	4680.2
7.5°	3220.6	3212.7	3479.8	3495.6	3530.0	3532.6	3527.4	3387.2	3244.4	3276.2	3371.3
10°	2498.8	2363.9	2493.5	2480.3	2564.9	2541.1	2575.4	2424.7	2475.0	2475.0	2535.8
12.5°	2036.0	1893.2	1869.4	1835.1	1869.4	1882.7	1895.9	1866.8	1951.4	1991.1	2033.4
15°	1554.8	1475.5	1454.3	1388.2	1398.8	1435.8	1467.5	1480.7	1454.3	1515.1	1520.4
17.5°	1129.1	1126.4	1139.6	1137.0	1126.4	1118.5	1115.8	1081.5	1070.9	1076.2	1097.3
20°	856.7	877.9	922.8	967.8	991.6	962.5	922.8	864.7	840.9	846.1	848.8
22.5°	732.4	764.2	825.0	875.2	899.0	846.1	774.7	724.5	713.9	711.3	708.6
25°	663.7	700.7	745.7	761.5	758.9	727.2	674.3	653.1	647.8	642.5	618.7
27.5°	626.7	639.9	647.8	666.3	674.3	653.1	639.9	608.2	602.9	602.9	587.0
30°	605.5	597.6	608.2	594.9	605.5	589.7	592.3	592.3	579.1	584.4	584.4
32.5°	563.2	565.9	565.9	539.4	547.3	528.8	547.3	563.2	565.9	568.5	589.7
35°	412.5	460.1	483.9	483.9	491.8	478.6	476.0	457.4	433.6	409.9	399.3
37.5°	362.3	380.8	412.5	431.0	444.2	433.6	409.9	380.8	367.5	357.0	346.4
40°	322.6	338.5	359.6	380.8	407.2	394.0	357.0	343.7	327.9	327.9	317.3
42.5°	290.9	298.8	312.0	343.7	372.8	346.4	319.9	309.4	301.4	298.8	296.1
45°	261.8	264.4	277.6	304.1	338.5	312.0	285.6	272.4	275.0	277.6	275.0
47.5°	235.3	240.6	248.6	280.3	301.4	288.2	259.1	251.2	251.2	251.2	253.8
50°	203.6	216.8	232.7	259.1	275.0	267.1	243.3	232.7	227.4	227.4	230.0
52.5°	182.4	193.0	214.2	245.9	267.1	253.8	230.0	214.2	203.6	201.0	206.2
55°	158.7	177.2	211.5	235.3	264.4	251.2	224.8	206.2	187.7	185.1	185.1
57.5°	142.8	171.9	203.6	232.7	256.5	245.9	224.8	201.0	177.2	174.5	174.5
60°	134.9	166.6	198.3	224.8	256.5	240.6	222.1	195.7	169.2	169.2	166.6
62.5°	126.9	156.0	187.7	214.2	245.9	232.7	214.2	187.7	161.3	161.3	156.0
65°	105.8	134.9	156.0	179.8	214.2	201.0	182.4	163.9	142.8	137.5	140.1
67.5°	74.0	92.5	113.7	137.5	158.7	153.4	145.4	132.2	113.7	111.1	108.4
70°	37.0	50.2	68.7	92.5	111.1	105.8	100.5	89.9	79.3	76.7	76.7
72.5°	5.3	15.9	29.1	42.3	58.2	60.8	58.2	55.5	52.9	50.2	52.9
75°	0.0	0.0	0.0	10.6	23.8	29.1	34.4	39.7	39.7	34.4	42.3
77.5°	0.0	0.0	0.0	0.0	2.6	13.2	26.4	34.4	42.3	37.0	50.2
80°	0.0	0.0	0.0	0.0	2.6	15.9	26.4	37.0	42.3	37.0	52.9
82.5°	0.0	0.0	0.0	0.0	2.6	18.5	26.4	34.4	39.7	37.0	47.6
85°	0.0	0.0	0.0	0.0	7.9	15.9	10.6	5.3	2.6	2.6	7.9
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-SA4D-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7	6816.7
2.5°	5904.5	6092.2	6293.2	6369.9	6607.8	6787.6	6909.3	7171.1	7210.7	7213.4
5°	4743.7	4838.9	5182.6	5343.9	5698.2	5973.2	6266.7	6689.8	6972.7	6993.9
7.5°	3371.3	3635.8	3781.2	4201.6	4637.9	5068.9	5505.2	5997.0	6324.9	6332.8
10°	2712.9	2884.8	3143.9	3458.6	3826.1	4265.1	4846.8	5418.0	5751.1	5833.1
12.5°	2184.1	2485.5	2781.7	3106.9	3387.2	3717.7	4344.4	5105.9	5380.9	5544.9
15°	1681.7	1956.7	2305.7	2686.5	3003.8	3445.4	4159.3	5029.3	5492.0	5547.5
17.5°	1240.1	1486.0	1808.6	2168.2	2644.2	3270.9	4191.0	5418.0	5854.2	5946.8
20°	891.1	1033.9	1287.7	1705.5	2311.0	3067.3	4222.8	5811.9	6475.6	6634.3
22.5°	706.0	764.2	930.8	1300.9	1938.2	2853.1	4447.5	6565.5	7329.7	7559.8
25°	613.5	645.2	724.5	1025.9	1702.9	2831.9	4807.1	7469.8	8466.7	8633.3
27.5°	592.3	597.6	666.3	941.3	1575.9	2691.8	4944.6	8112.4	9175.4	9344.6
30°	624.0	708.6	713.9	795.9	1340.6	2414.1	5016.0	8733.8	9775.6	9899.9
32.5°	539.4	513.0	531.5	616.1	1179.3	2252.9	5150.9	9275.8	10460.4	10547.7
35°	375.5	394.0	436.3	534.1	1031.2	2083.6	5185.3	9873.4	11110.9	11200.8
37.5°	346.4	357.0	391.3	454.8	907.0	1988.4	5137.7	10309.7	11785.2	11909.5
40°	322.6	335.8	354.3	412.5	814.4	1882.7	5071.6	10703.7	12197.7	12504.4
42.5°	304.1	314.7	330.5	394.0	735.1	1776.9	4979.0	11259.0	12567.9	12834.9
45°	282.9	298.8	317.3	383.4	690.1	1705.5	4910.3	11224.6	12782.0	12924.8
47.5°	261.8	288.2	309.4	357.0	676.9	1671.1	4939.4	11095.0	12607.5	12509.7
50°	240.6	275.0	312.0	296.1	645.2	1602.4	4973.7	11272.2	12192.4	12173.9
52.5°	222.1	261.8	290.9	243.3	573.8	1536.3	5306.9	11504.9	12485.9	12240.0
55°	195.7	235.3	232.7	195.7	465.4	1486.0	5568.7	11510.2	12287.6	12380.1
57.5°	177.2	208.9	182.4	163.9	343.7	1242.8	5143.0	9651.3	10518.6	10682.5
60°	163.9	203.6	137.5	129.6	224.8	896.4	4489.8	7475.1	8360.9	8670.3
62.5°	150.7	193.0	108.4	105.8	156.0	637.3	3691.3	6256.2	7205.4	7625.9
65°	132.2	137.5	87.3	82.0	111.1	343.7	2247.6	4307.4	5386.2	5542.2
67.5°	108.4	105.8	71.4	66.1	74.0	166.6	991.6	2157.7	3122.8	3384.6
70°	87.3	87.3	60.8	52.9	52.9	76.7	259.1	859.4	1412.0	1562.7
72.5°	63.5	66.1	47.6	42.3	39.7	37.0	42.3	171.9	370.2	473.3
75°	55.5	58.2	47.6	37.0	29.1	23.8	18.5	15.9	21.2	34.4
77.5°	60.8	60.8	50.2	34.4	26.4	18.5	10.6	5.3	5.3	2.6
80°	76.7	79.3	66.1	45.0	31.7	21.2	13.2	5.3	2.6	2.6
82.5°	82.0	89.9	74.0	55.5	39.7	23.8	13.2	2.6	0.0	0.0
85°	21.2	34.4	58.2	50.2	39.7	23.8	13.2	2.6	0.0	0.0
87.5°	0.0	2.6	7.9	7.9	10.6	10.6	7.9	2.6	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)